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.

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
TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

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/ADRDOD/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

Sample Distribution:
GC: 2-$SIMHC12W, 2-$TPETD2
Extractions: 2-_SEP004S, 2-_SEP011
VOA: 3-$86RHBF
Metals: 2-$602D(Pb)
Other: 2-_M3015, 2-SUB

Charges:

Invoice To:
same

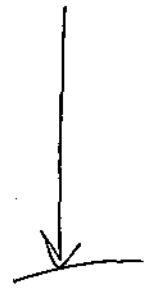
	Client ID	APPL ID	Sampled	Analyses Requested
1.	ES050	AY49481W	10/25/11 09:50	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2, SUB -- unpreserved VOA vials
2.	ES051	AY49482W	10/25/11 11:30	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2, SUB -- unpreserved VOA vials
3.	ES052	AY49483W	10/25/11 07:00	$86RHBF -- unpreserved 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
	Other - 1 Liter amber		HCl



66116

CHAIN OF CUSTODY RECORD

APPL Labs
908 North Temperance Ave.
Clovis, CA 93611

Phone: (559) 275-2175

Fax: (559) 275-4422

C.O.C. № 31218

Report to: PLEASE PRINT		Invoice to: PLEASE PRINT	
Company Name: Environet	Phone: 808 833-2225	Company Name: Environet	Phone: 808 833-2225
Address: 650 Iwilei Rd #204 Honolulu, Hi	Fax: 808 833-2231	Address: 650 Iwilei Rd #204 Honolulu, Hi	Fax: 808 833-2231
Attn: Stacey Fineran		Attn: Trisha Yasuda	

Project Name/Number	Sampler (Print)	Purchase Order Number	Sampler (Signature)
Red Hill 1022-024	Stacey Fineran		Stacy Fineran

Date Shipped: 10/26/11
Carrier: Fed Express
Waybill No.:
Comments:

Sample Identification	Location	Date Collected	Time Collected	Matrix	Number of Containers	Analysis Requested/Method Number: EPA 8015B TPH-DRO	EPA 8260 TPH-GRO	EPA 8260 VOCs	EPA 8270C PAHs	EPA 6020 Dissolved Pb	MADEP-EPH	MADEP-VPH
ESO 50	RHSF	10/25/11	950	Ag	13	X	X	X	X	X	X	X
ESO 51	RHSF	10/25/11	1130	Ag	13	X	X	X	X	X	X	X
ESO 52	RHSF	10/25/11	0700	Ag	1			X				

15

Shuttle Temperature:

Turnaround Requested: MUST CHECK ONE
☒ Standard (2-3 week) ☐ One week ☐ 24-48 hour

Sample Disposal:
☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
Stacy Fineran	10/26		Fed Ex				
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					10/27/11	1040	

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) 876249939166 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°C 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: AY49483 w01

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: Yang for Second reviewer:
Signature of project manager notified: Reviewed Date and Time of notification: 10-28-11
Name of client notified: Date and Time of notification:
Information given to client:
by whom (Initials):

CUSTODY SEAL
APPL, Inc.
(559) 275-2175
Initials JT
Date 10/28

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 Avenu
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

Form 2 & 8

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: _____

Primary	SPK
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	1106005	11/06/11 1722
AY49481	ES050	1106020	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

EPA 8015 Modified
Total Petroleum Hydrocarbons
Sample Data

TPH Diesel Water

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

Attn: Stacey Fineran

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Project: RED HILL/1022-024
Sample ID: ES050
Sample Collection Date: 10/25/11

ARF: 66116
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

Quantitation Report (QT Reviewed)

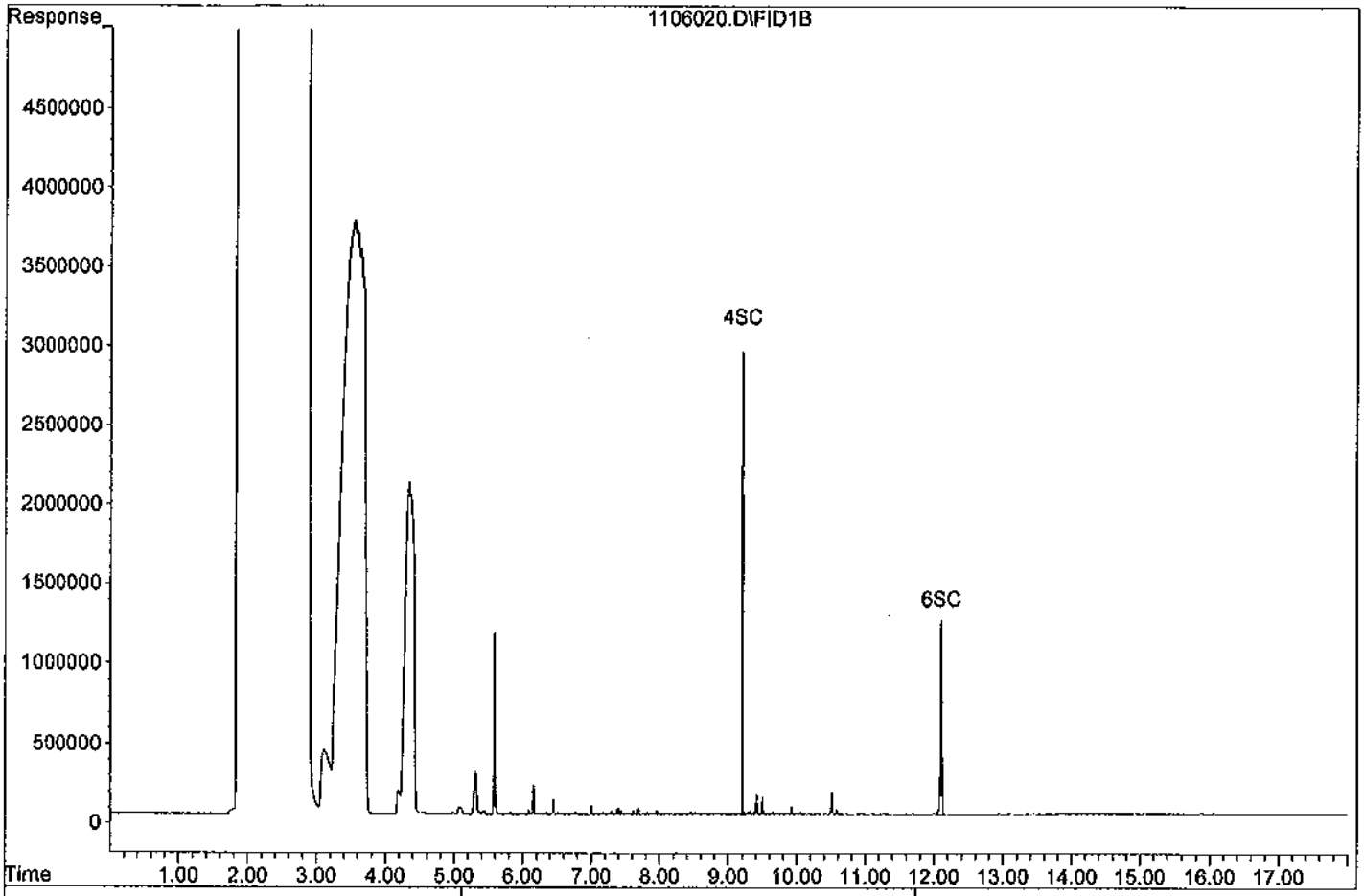
Data File : G:\APOLLO\DATA\111106\1106020.D Vial: 20
Acq On : 11-6-11 23:13:41 Operator: LAC
Sample : AY49481W10 5/1040 Inst : Apollo
Misc : Water Multiplr: 4.81
IntFile : events.e
Quant Time: Nov 7 10:05 2011 Quant Results File: TPH1028.RES

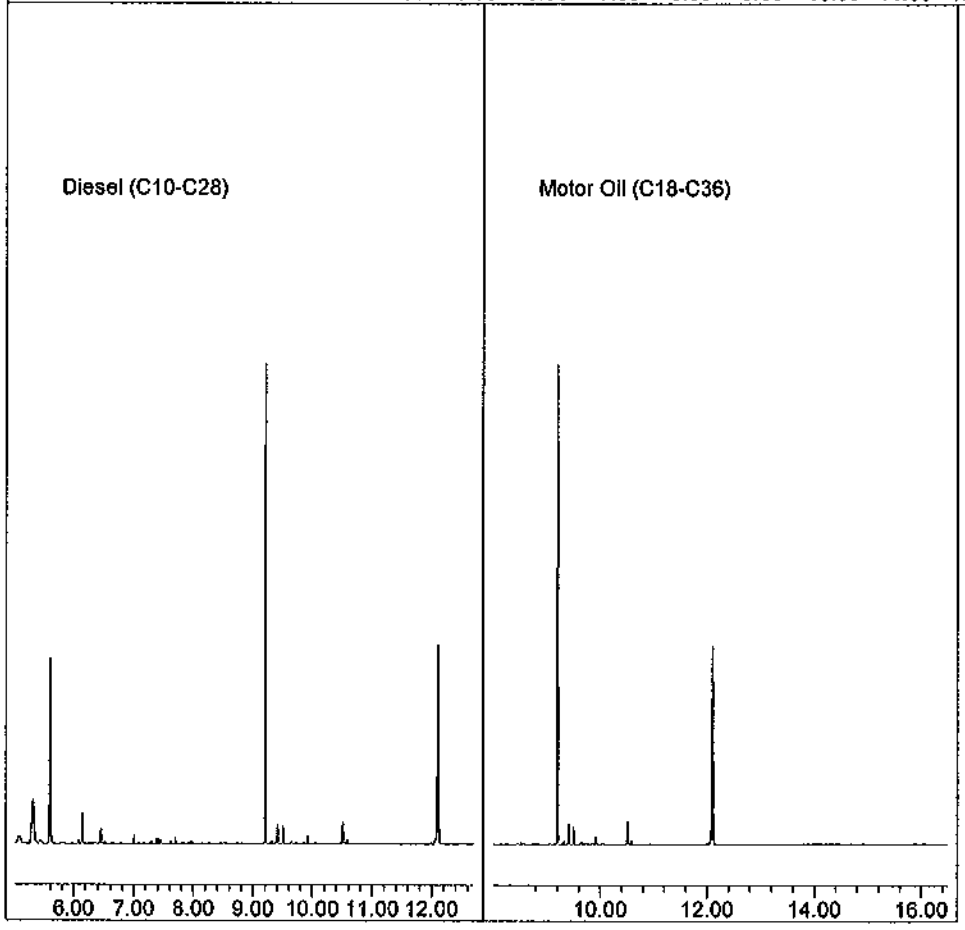
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

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

Quantitation Report (QT Reviewed)

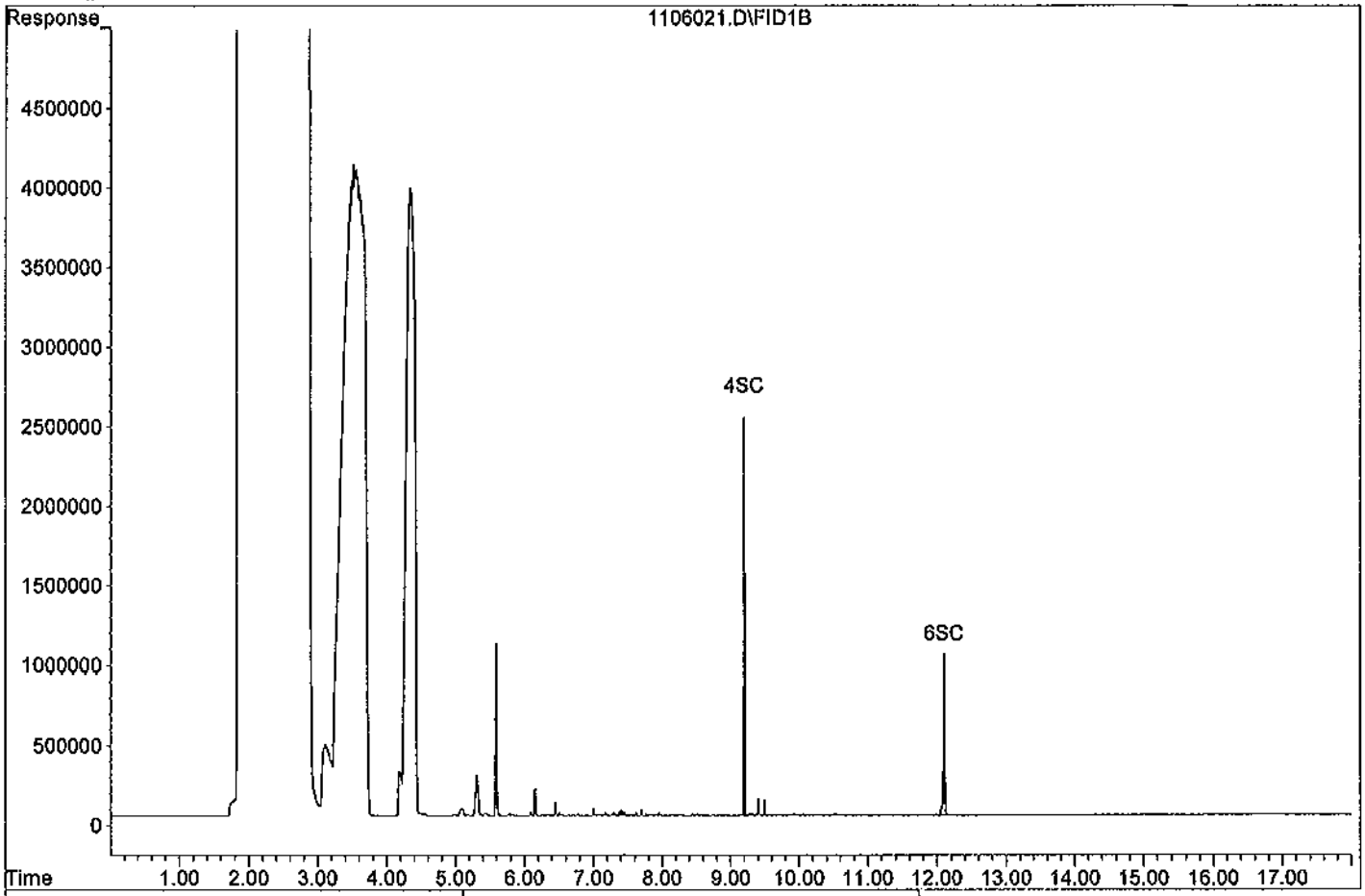
Data File : G:\APOLLO\DATA\111106\1106021.D Vial: 21
Acq On : 11-6-11 23:36:56 Operator: LAC
Sample : AY49482W10 5/1040 Inst : Apollo
Misc : Water Multiplr: 4.81
IntFile : events.e
Quant Time: Nov 7 10:05 2011 Quant Results File: TPH1028.RES

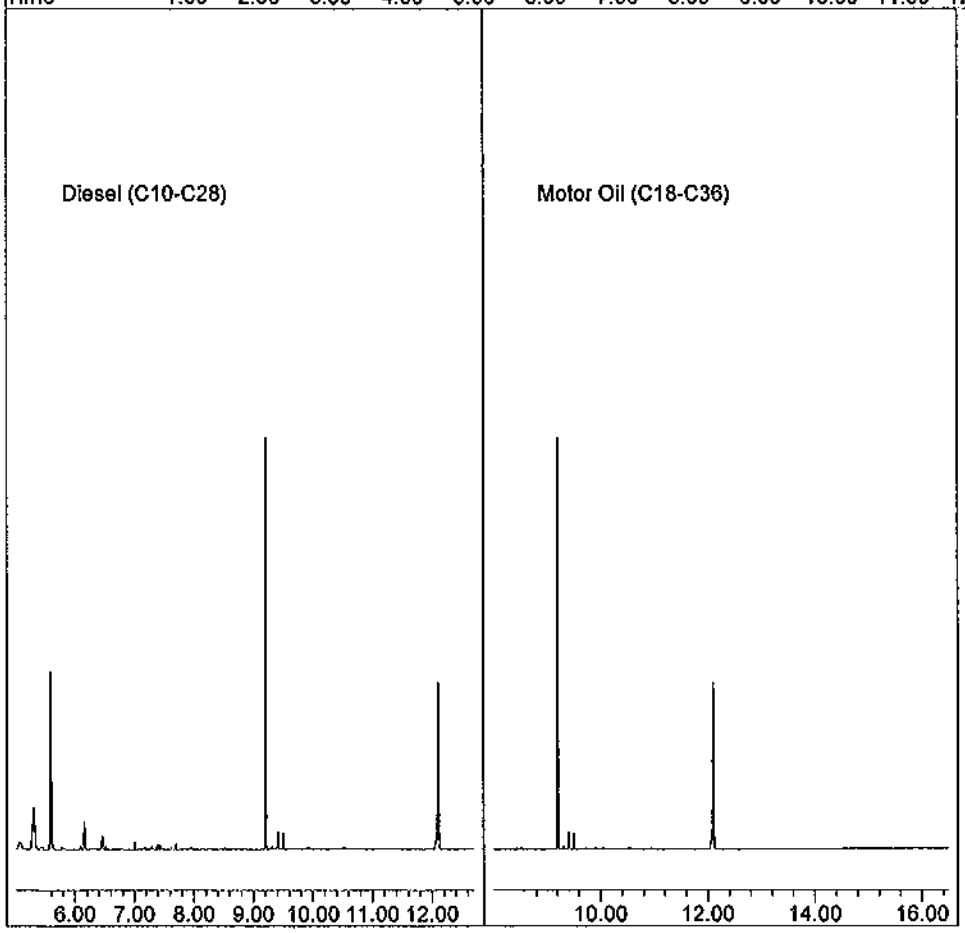
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
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			

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. SDG No: 66116
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	
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																

1.2501454

Quantitation Report (Not Reviewed)

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

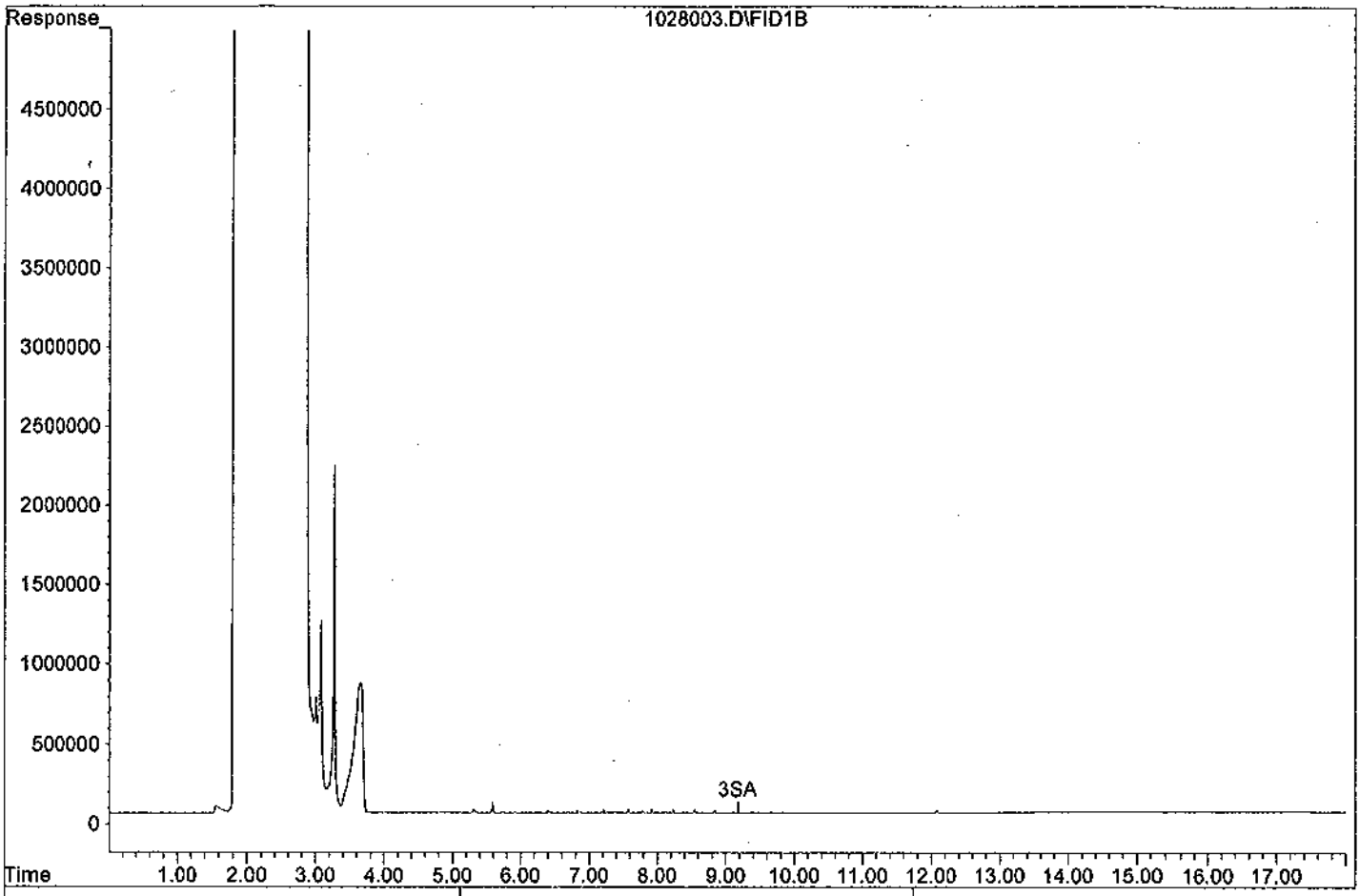
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

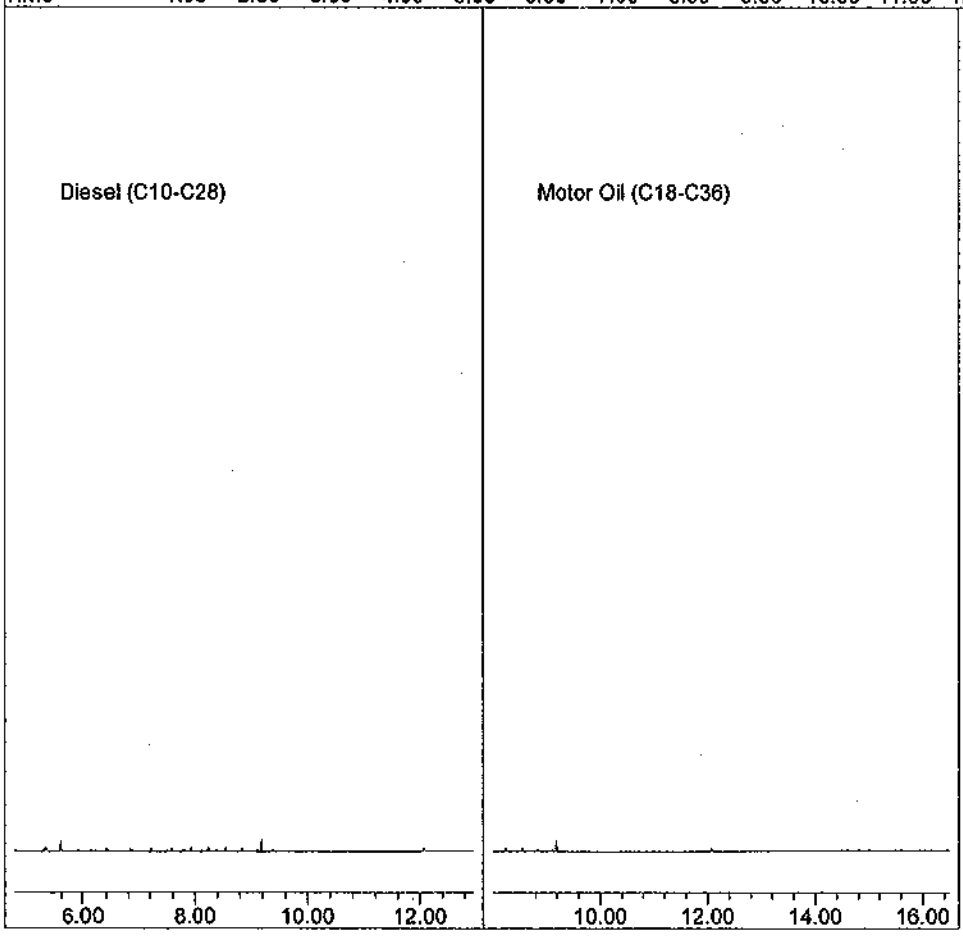
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

(f)=RT Delta > 1/2 Window (m)=manual int.

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





Quantitation Report (Not Reviewed)

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

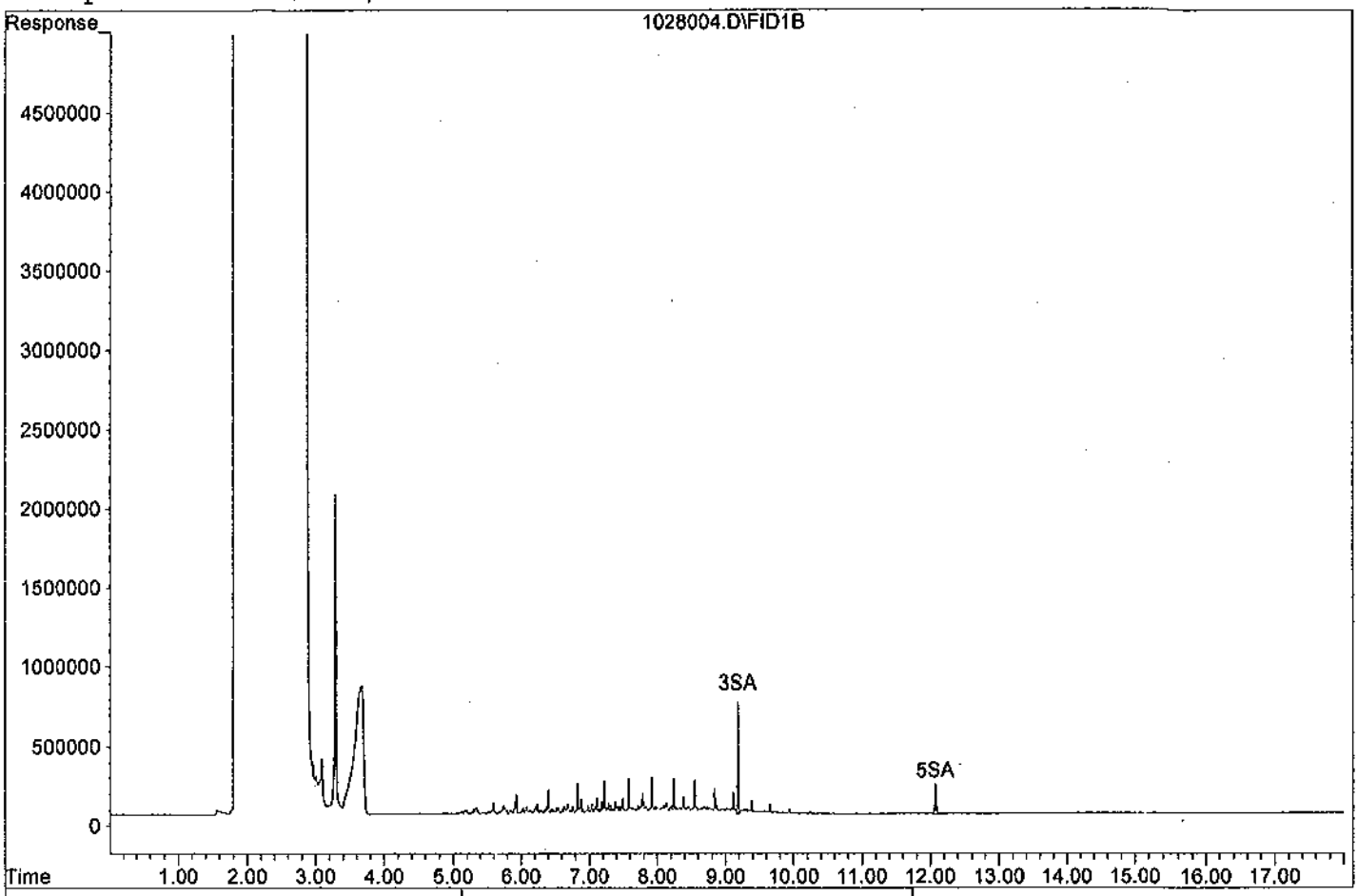
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

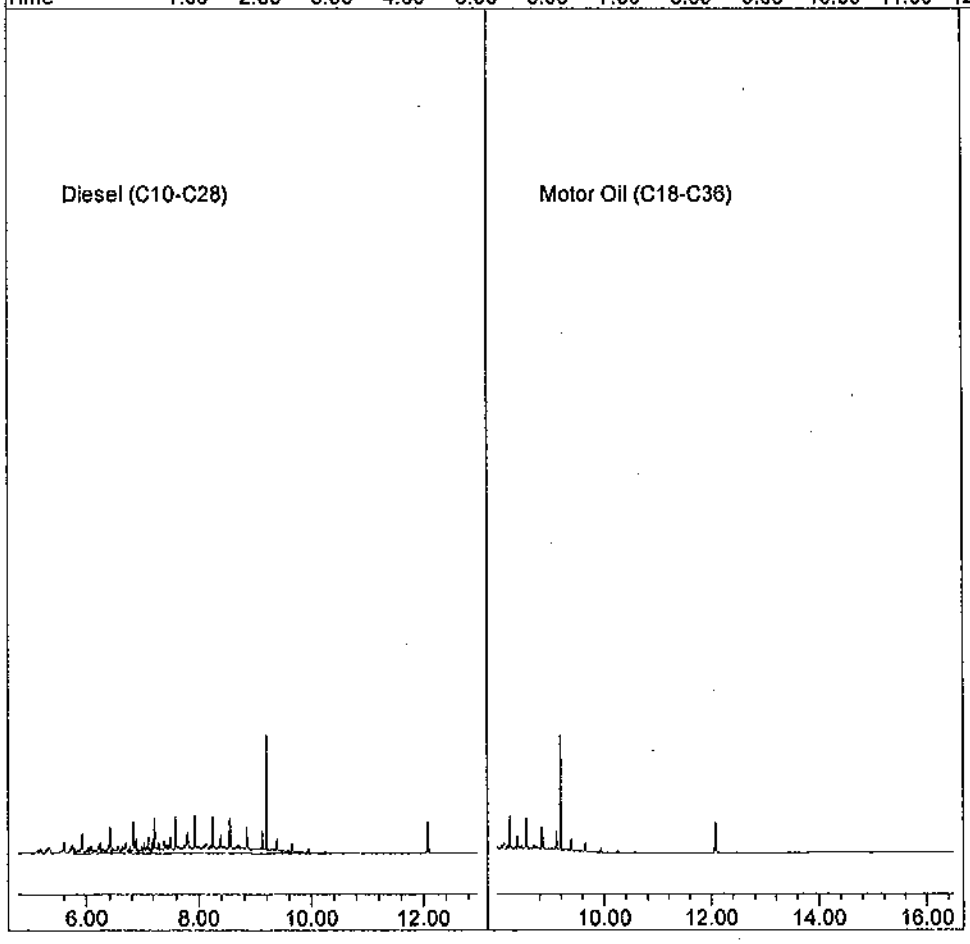
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

(f)=RT Delta > 1/2 Window 34 (m)=manual int.

Data File: G:\APOLLO\DATA\111028\1028004.D
Sample : DIESEL 100/1000





Quantitation Report (Not Reviewed)

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

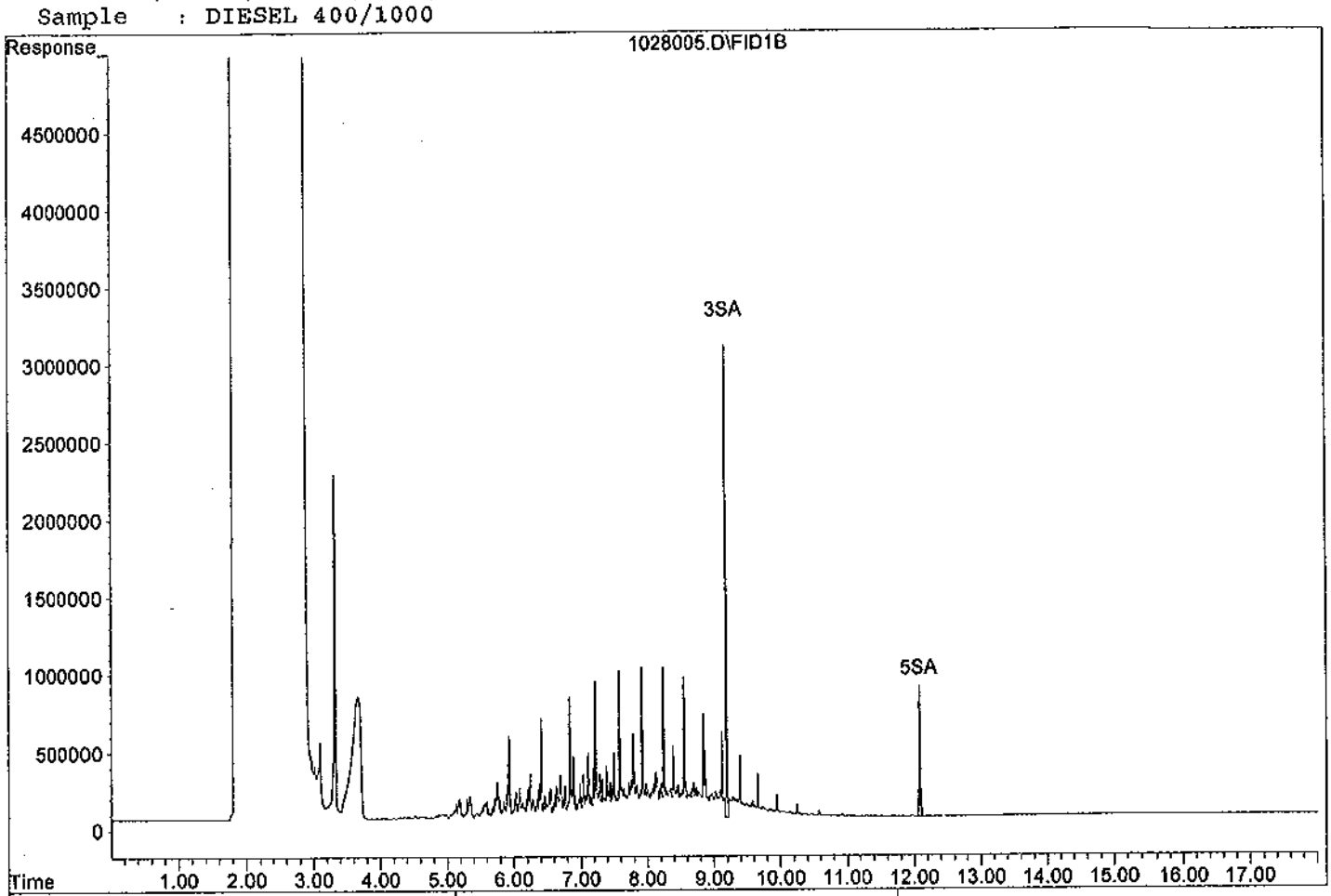
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

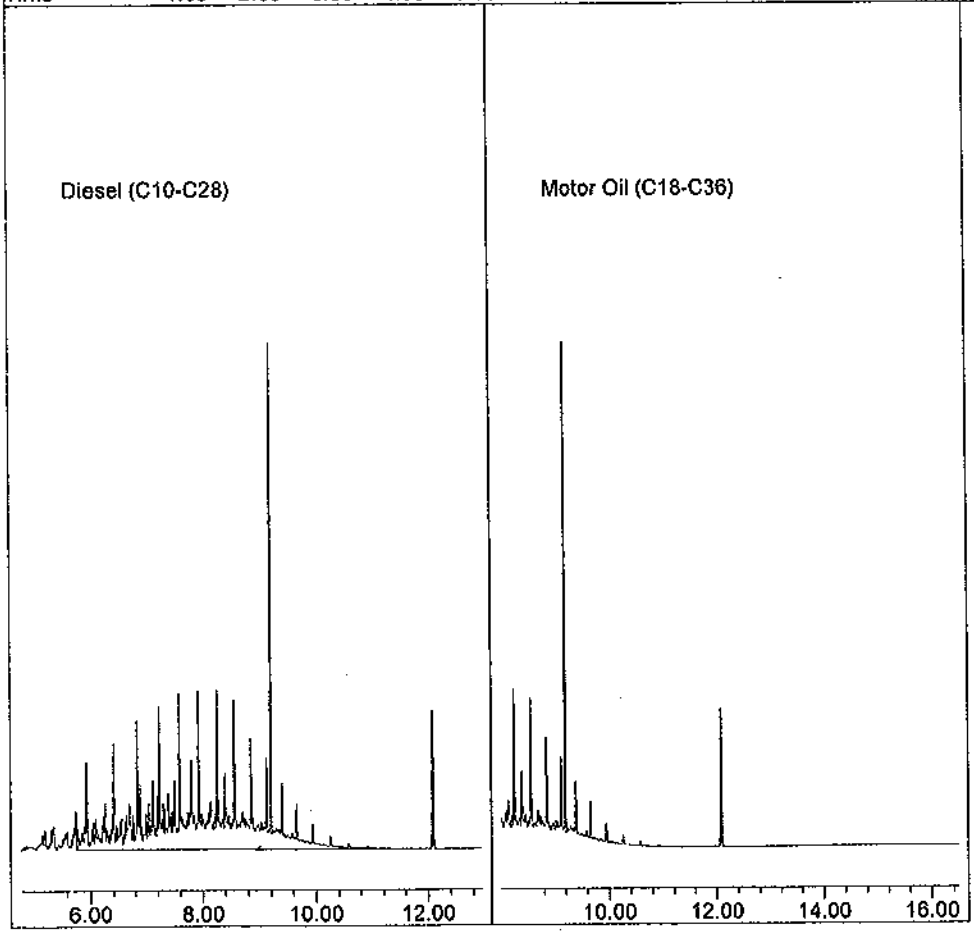
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

(f)=RT Delta > 1/2 Window 36 (m)=manual int.
1028005.D TPH1028.M Wed Nov 30 11:25:16 2011 Page 1

Data File: G:\APOLLO\DATA\111028\1028005.D
Sample : DIESEL 400/1000





Quantitation Report (Not Reviewed)

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

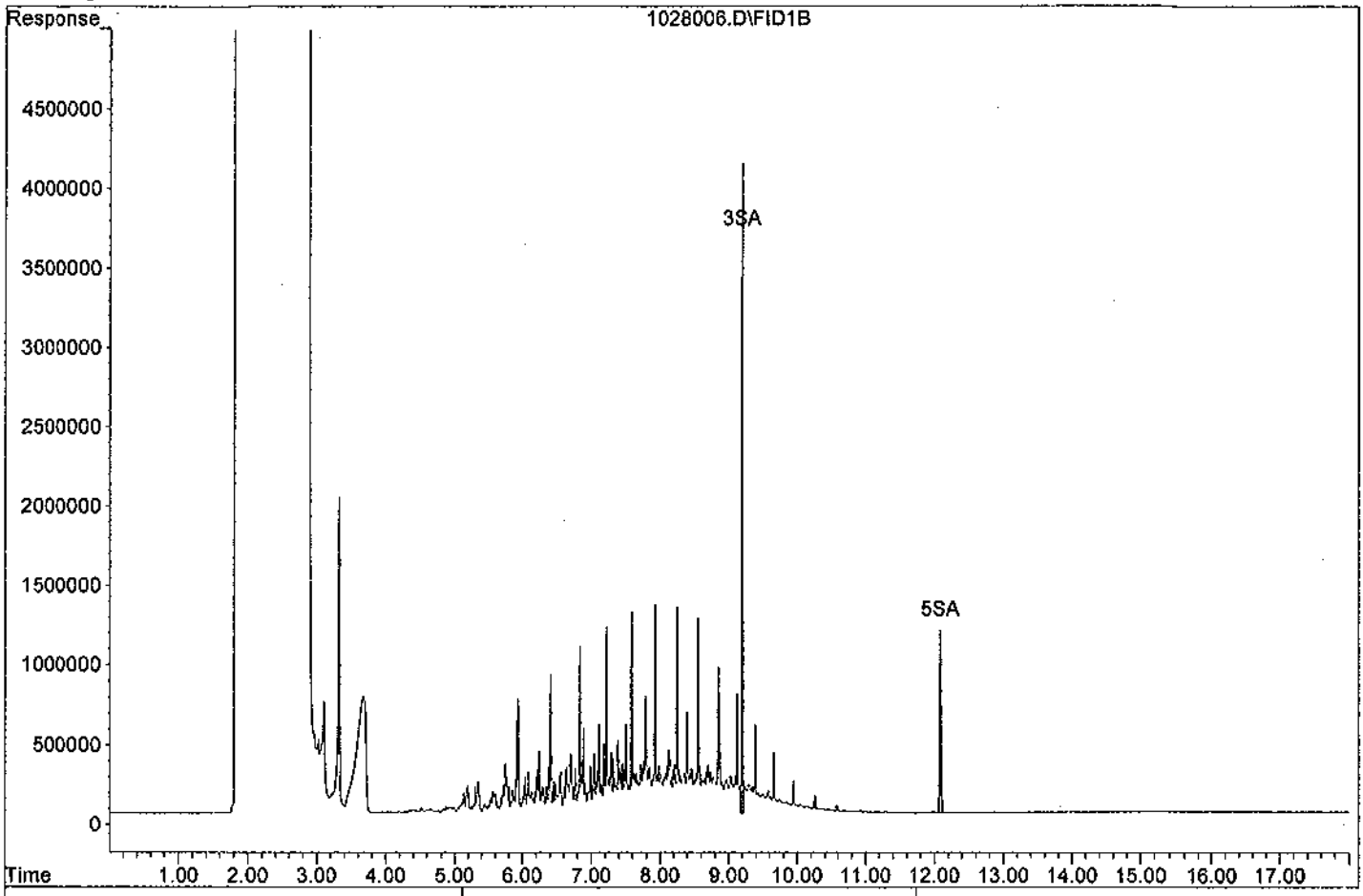
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

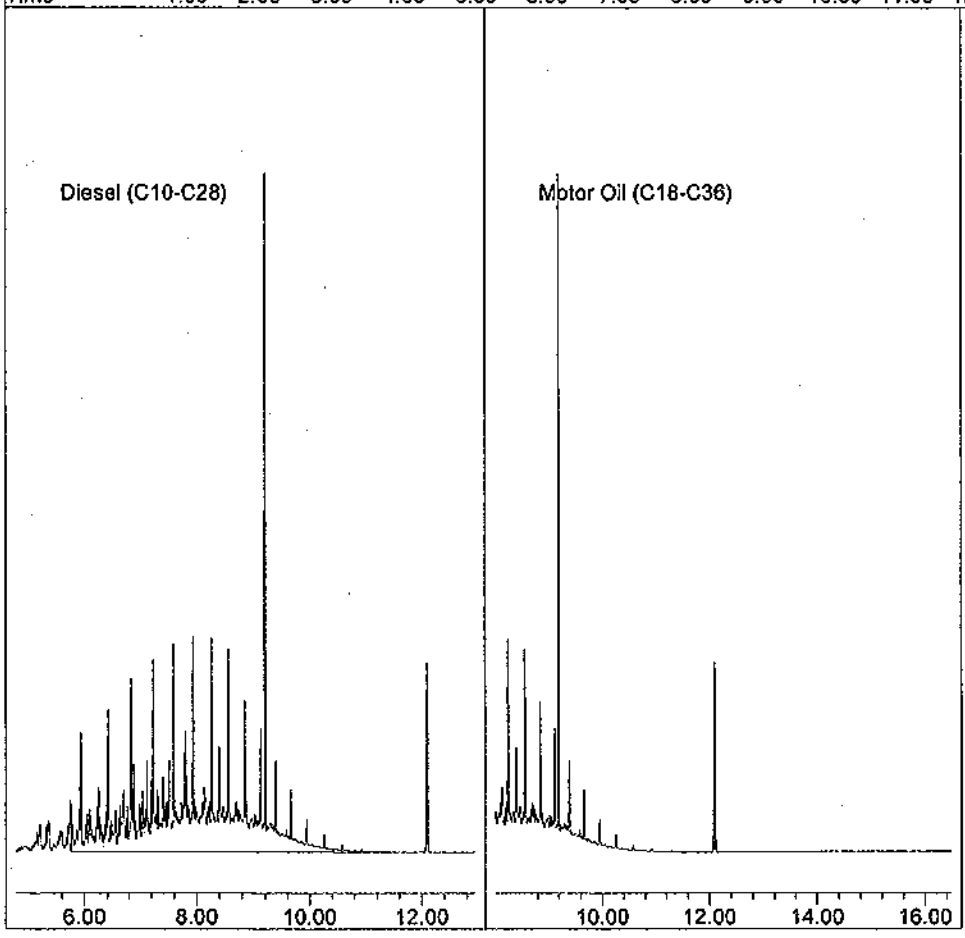
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\111028\1028006.D
Sample : DIESEL 600/1000





Quantitation Report (Not Reviewed)

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

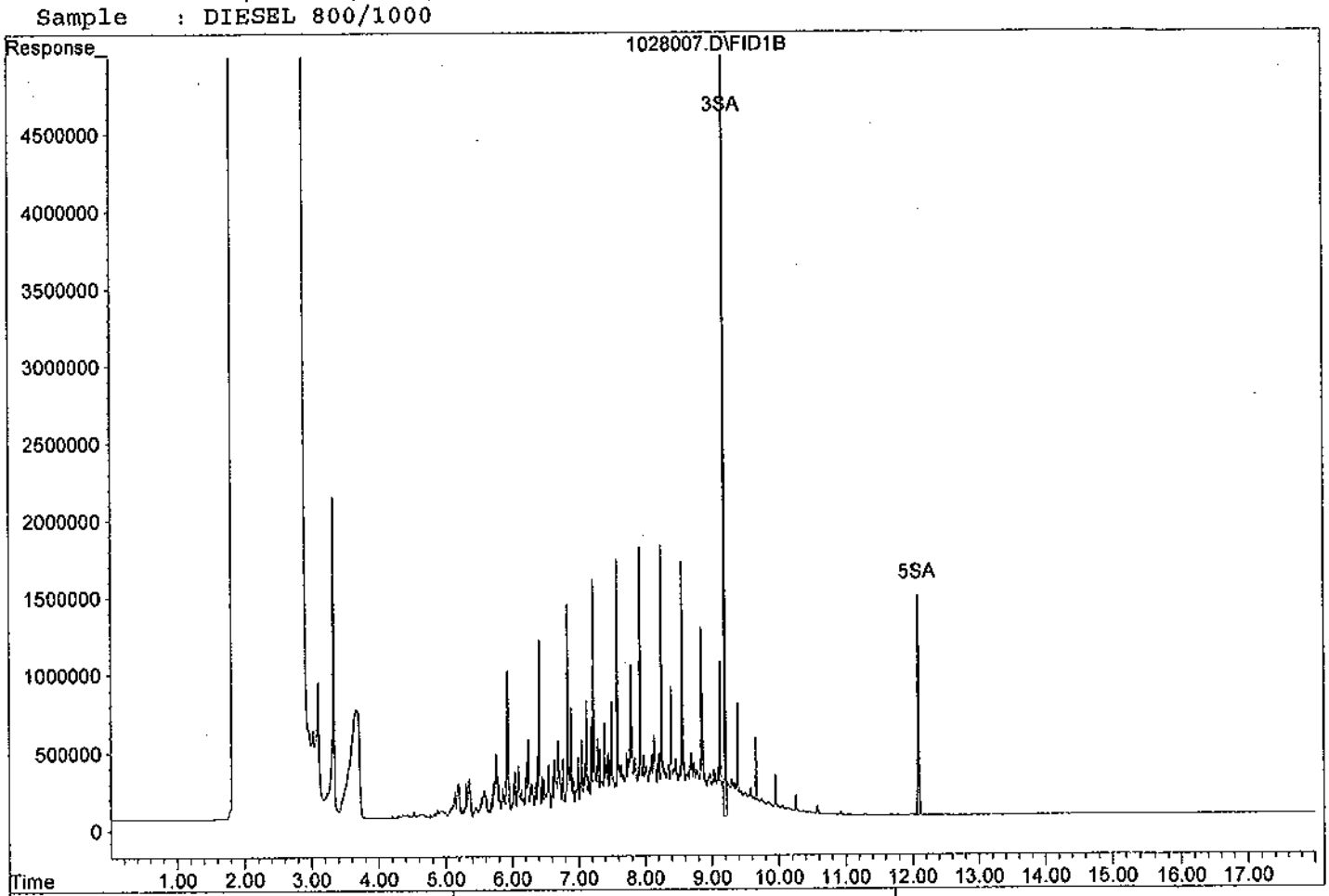
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

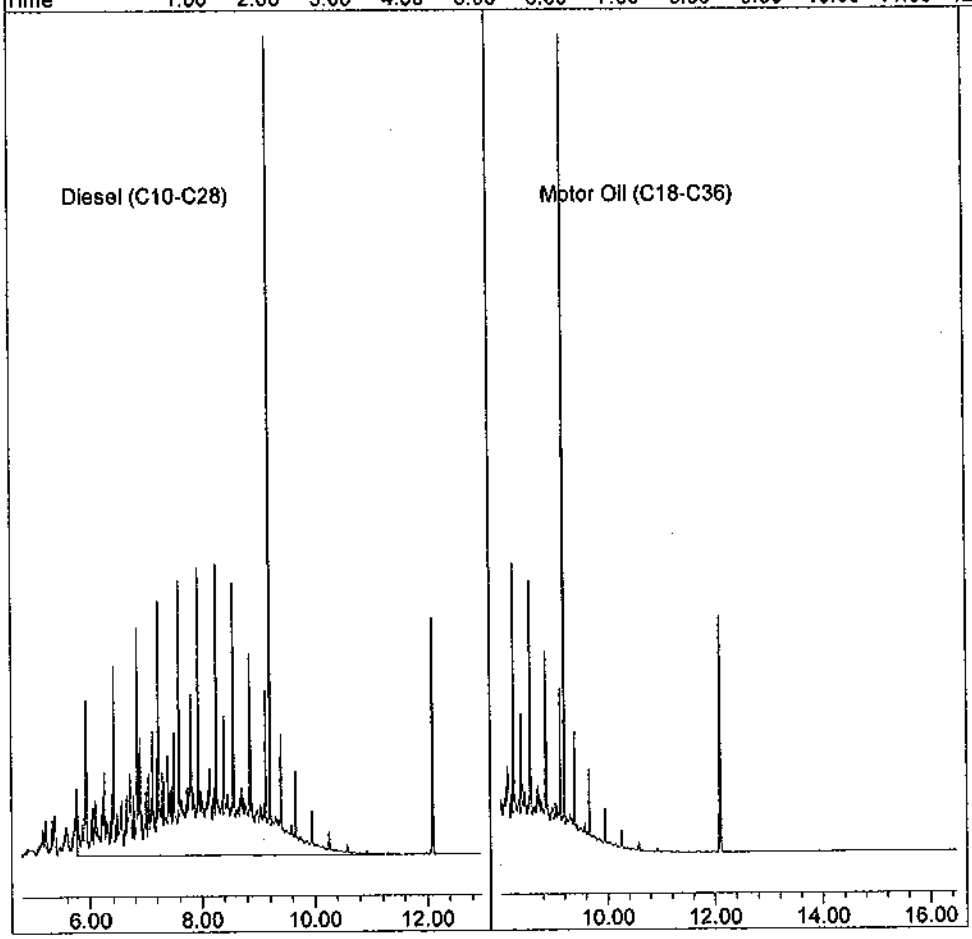
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\111028\1028007.D
Sample : DIESEL 800/1000





Quantitation Report (Not Reviewed)

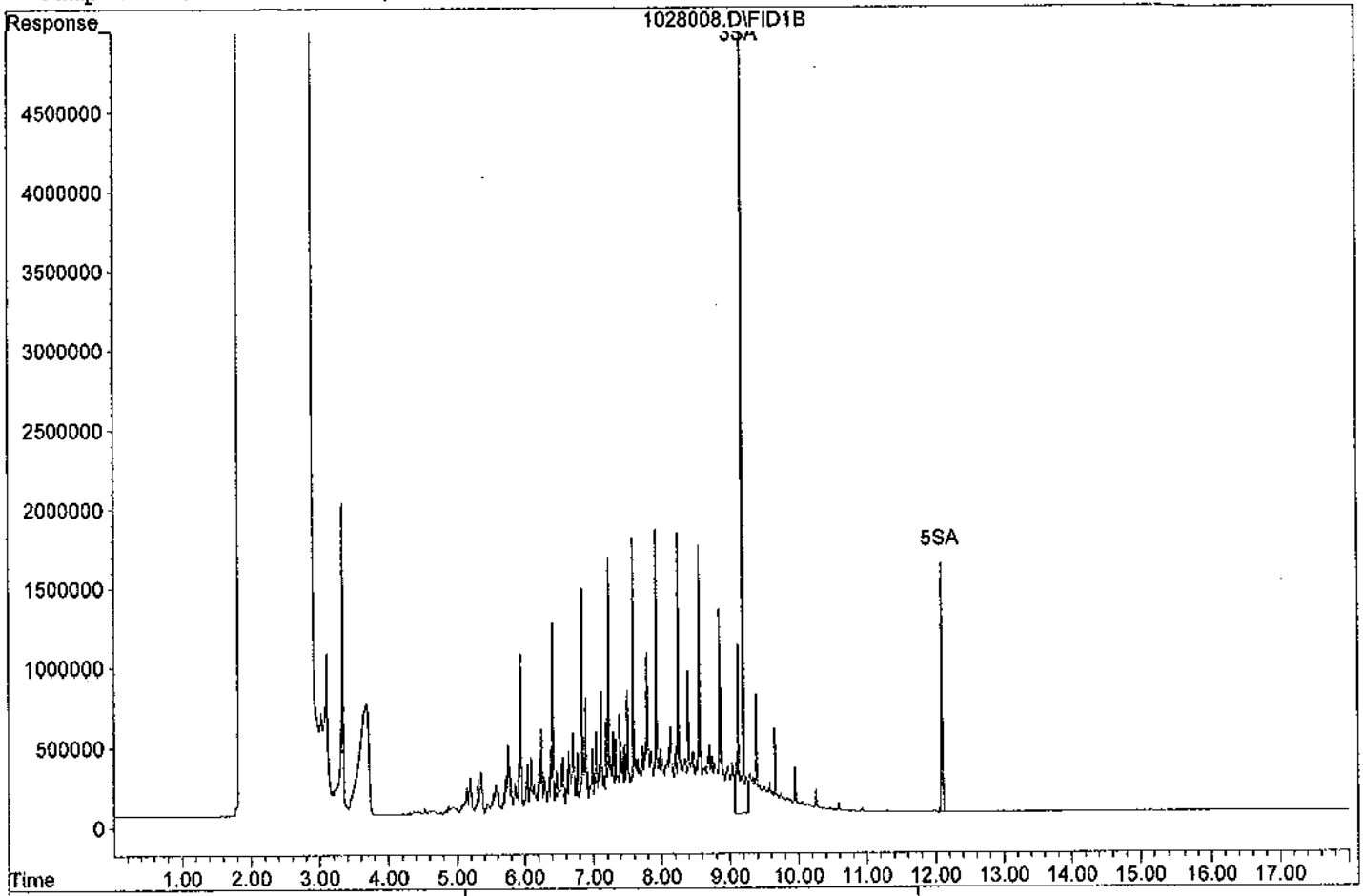
Data File : G:\APOLLO\DATA\111028\1028008.D Vial: 8
Acq On : 10-28-11 11:48:05 Operator: LAC
Sample : DIESEL 1000/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

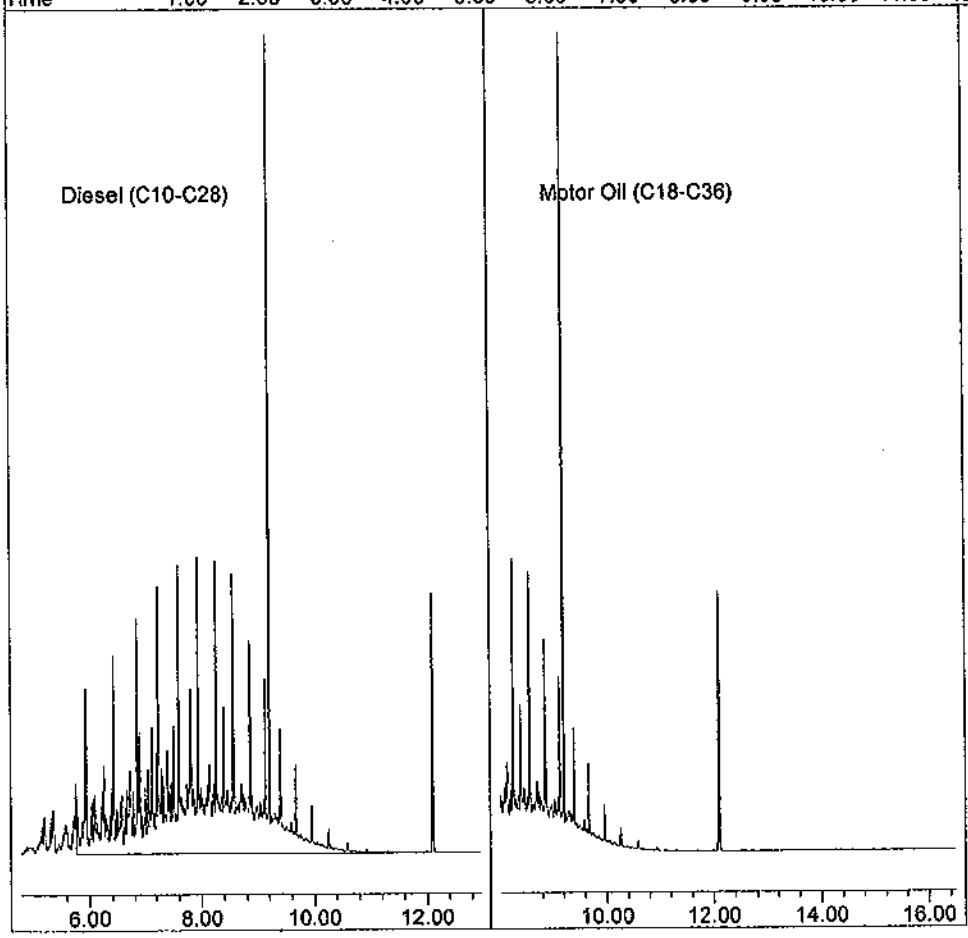
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

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

Data File: G:\APOLLO\DATA\111028\1028008.D
Sample : DIESEL 1000/1000





Quantitation Report (Not Reviewed)

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

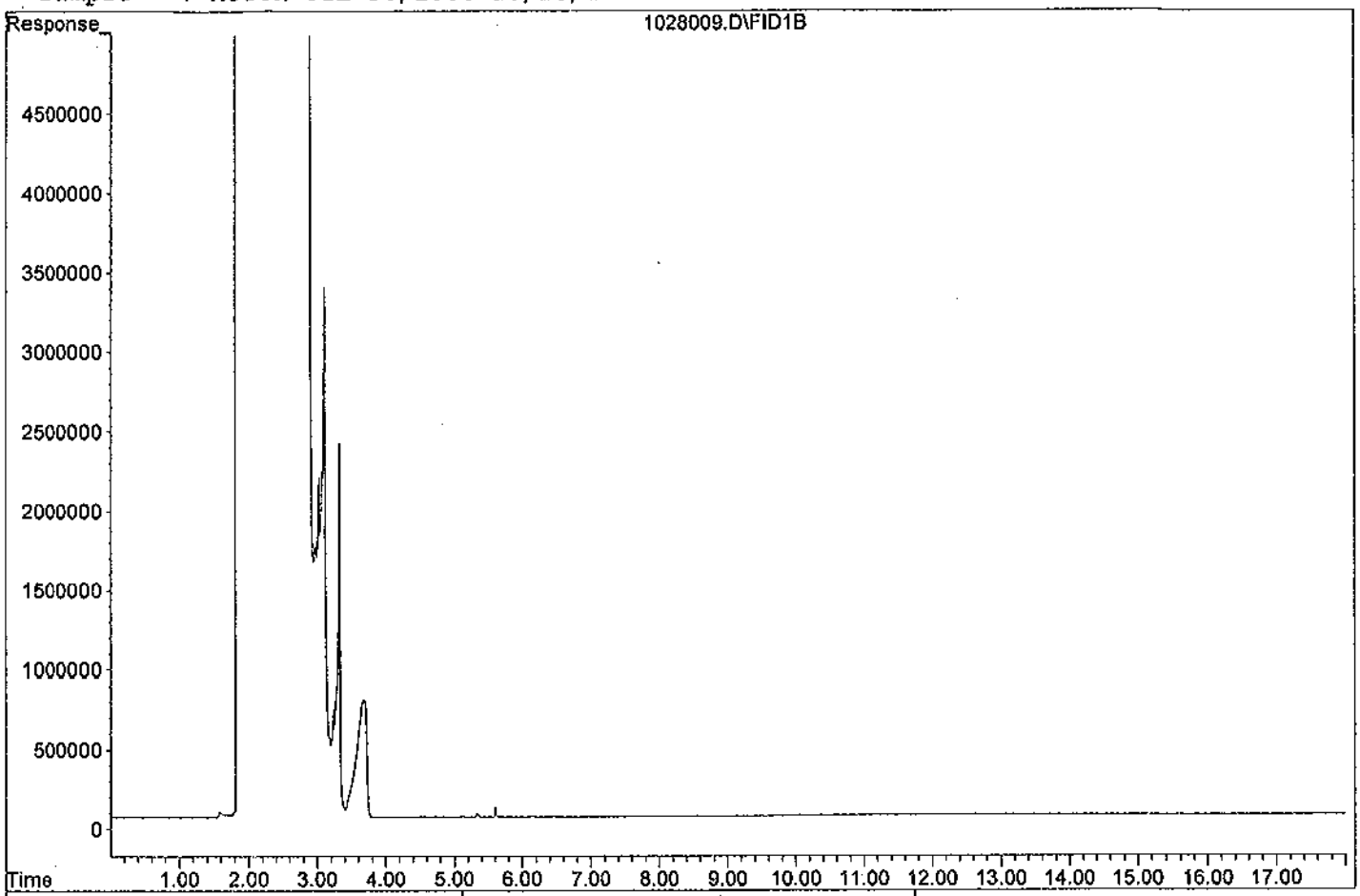
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

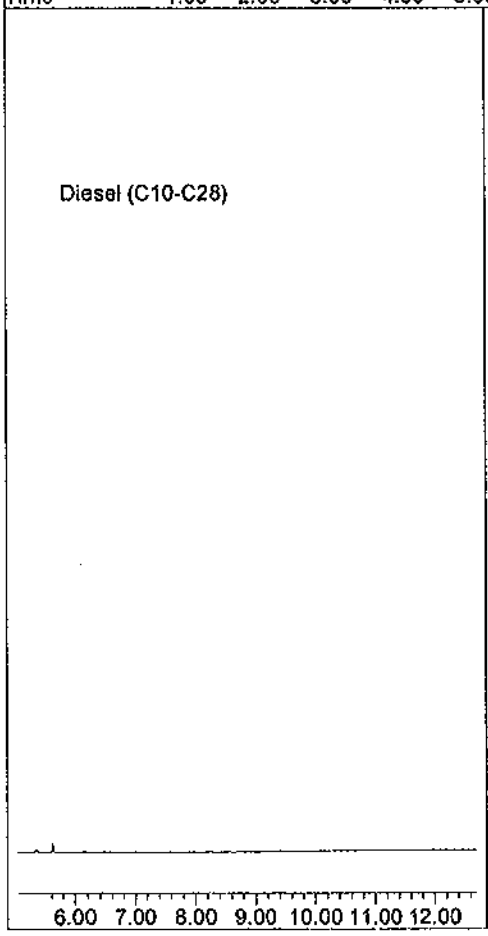
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

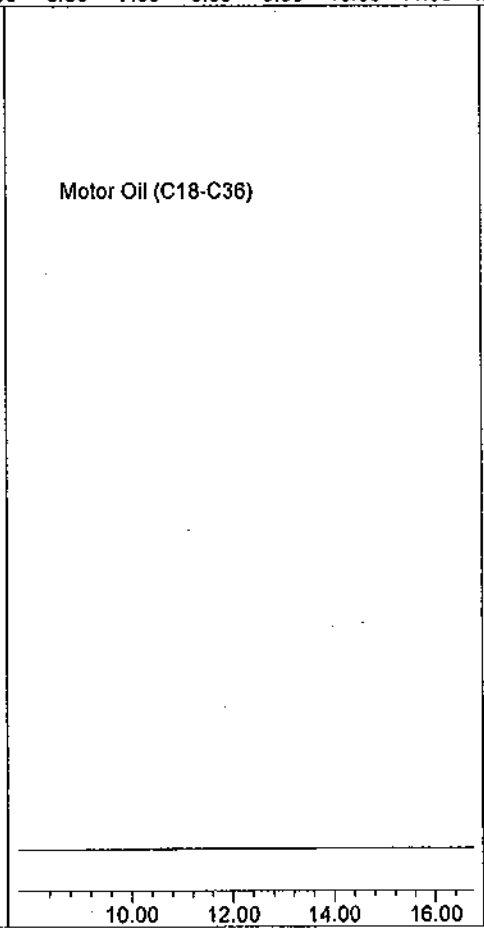
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.25	17842259	49.322 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028009.D
Sample : MOTOR OIL 50/1000 10/28/11







Quantitation Report (Not Reviewed)

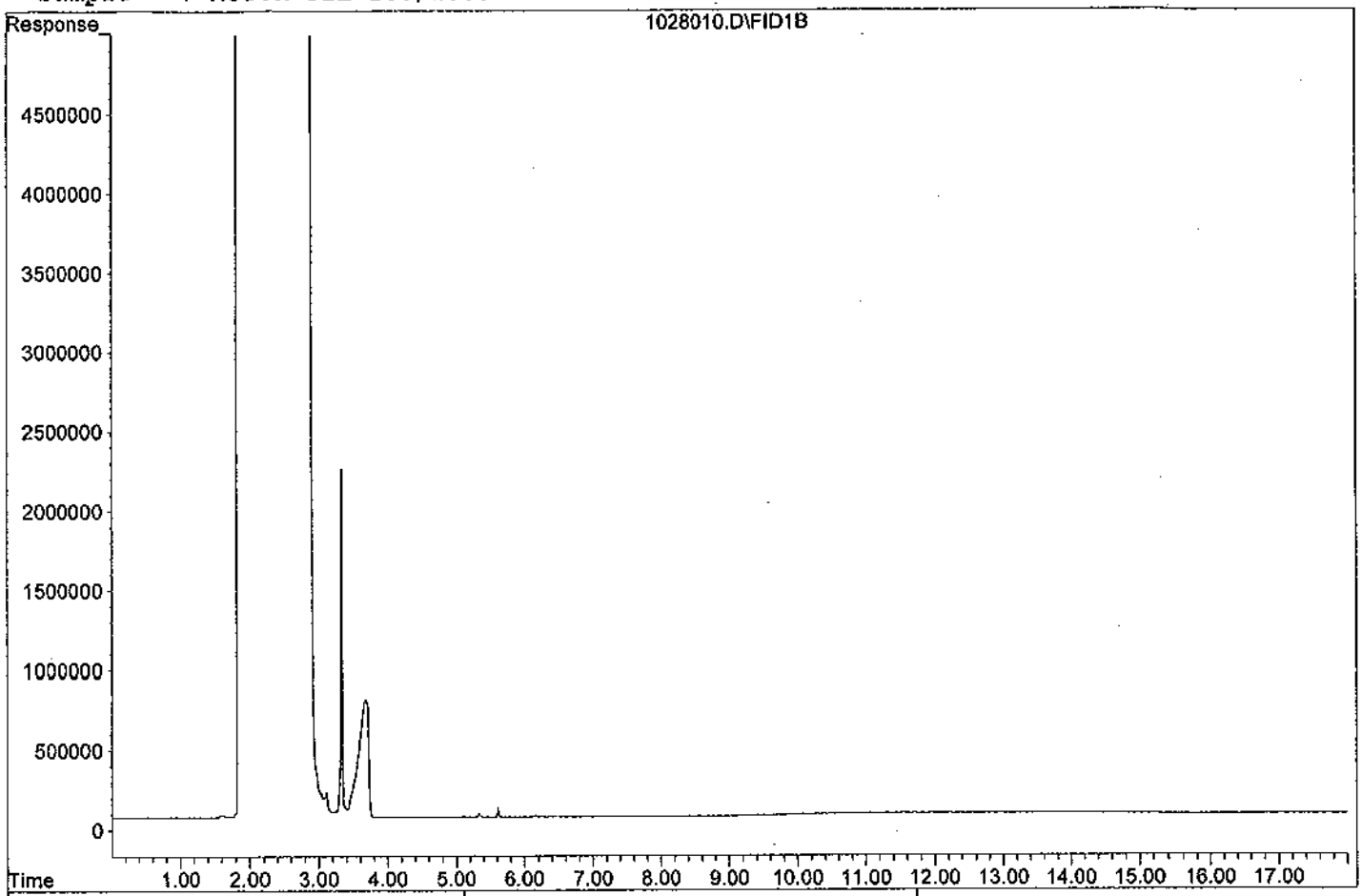
Data File : G:\APOLLO\DATA\111028\1028010.D Vial: 10
Acq On : 10-28-11 12:36:20 Operator: LAC
Sample : MOTOR OIL 100/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

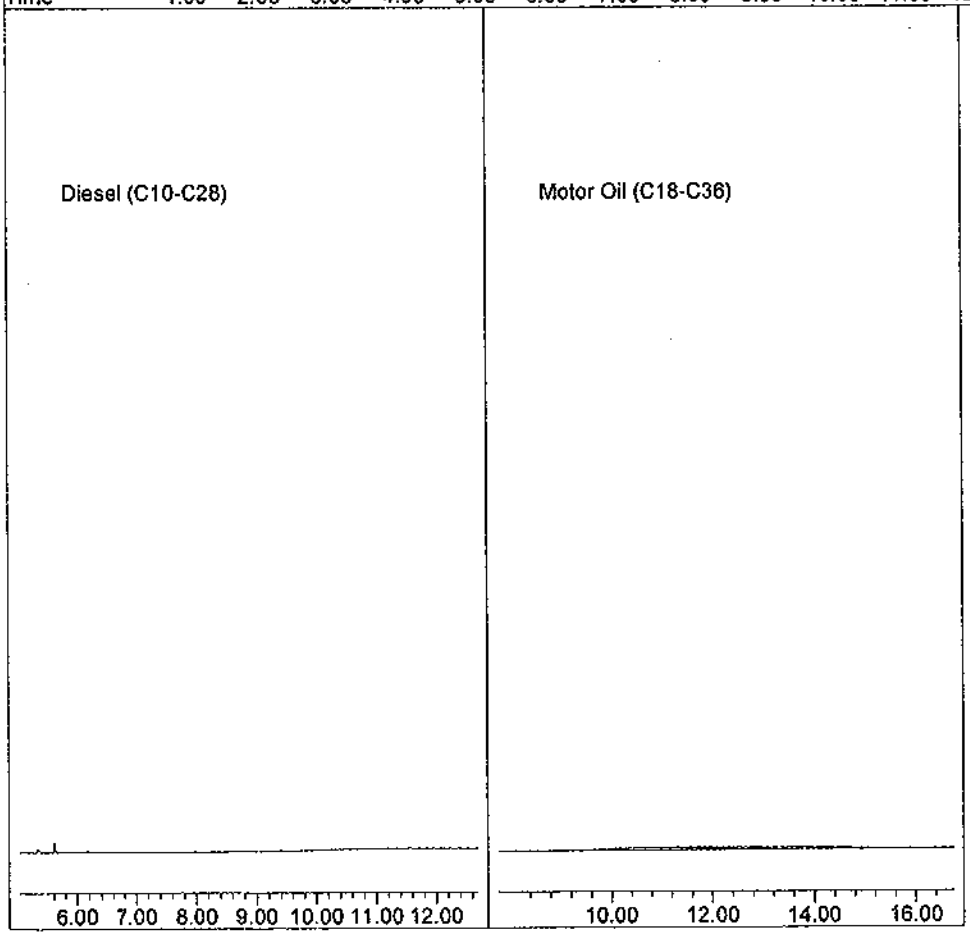
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.25	36743279	101.570 ppb

Data File: G:\APOLLO\DATA\111028\1028010.D
Sample : MOTOR OIL 100/1000





Quantitation Report (Not Reviewed)

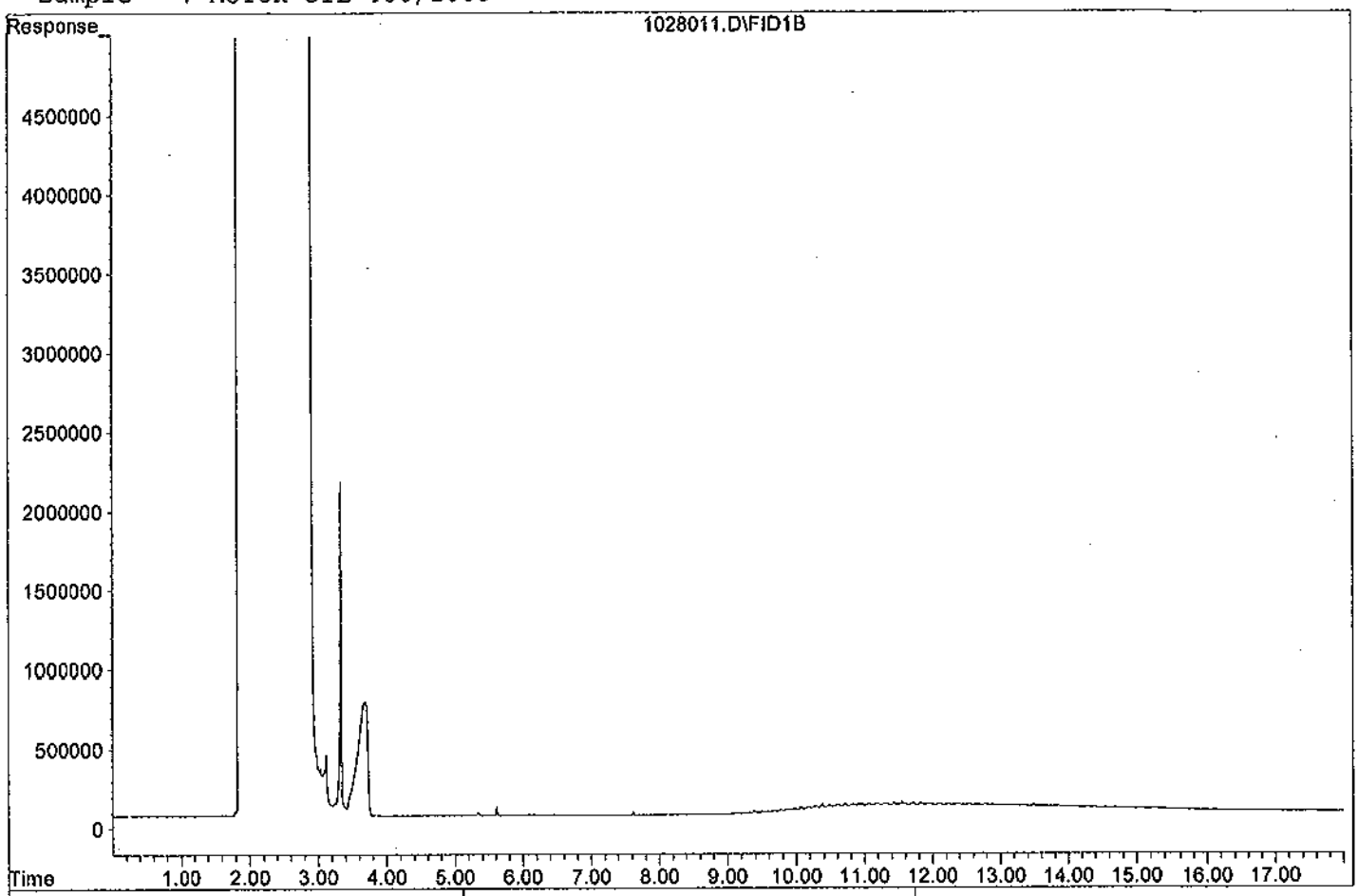
Data File : G:\APOLLO\DATA\111028\1028011.D Vial: 11
Acq On : 10-28-11 13:00:16 Operator: LAC
Sample : MOTOR OIL 400/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

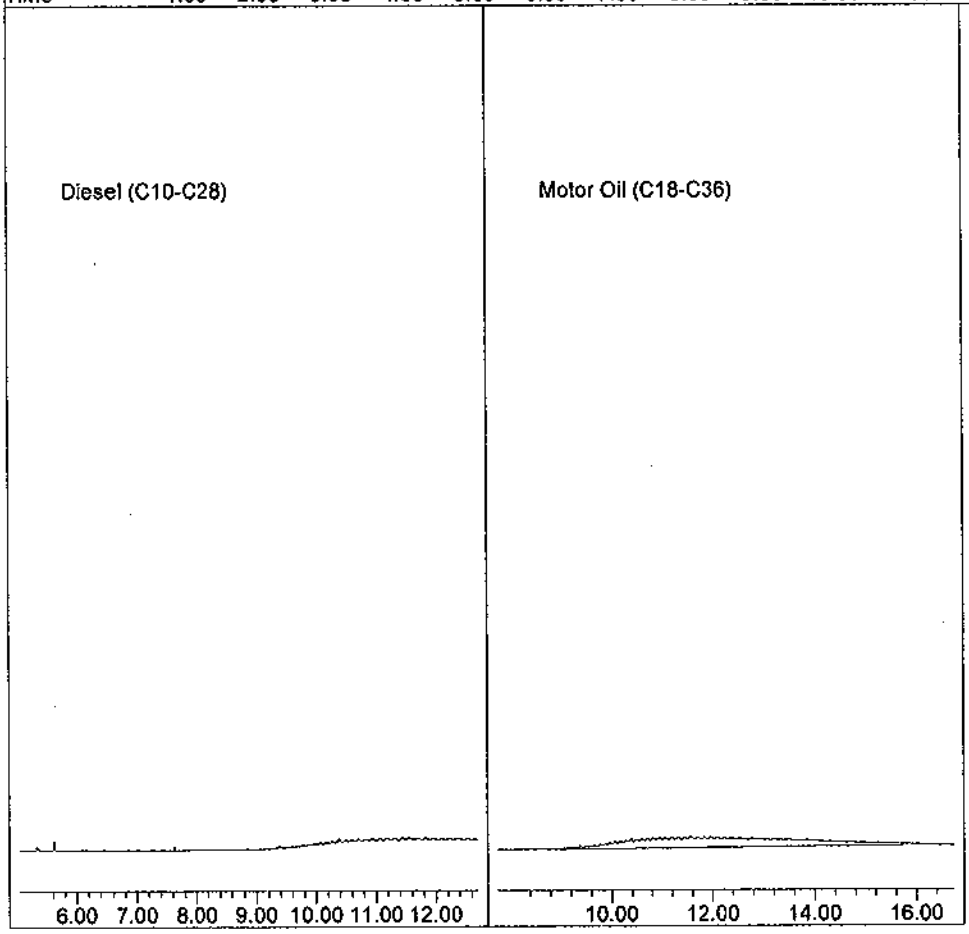
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.25	147050915	406.495 ppb

Data File: G:\APOLLO\DATA\111028\1028011.D
Sample : MOTOR OIL 400/1000





Quantitation Report (Not Reviewed)

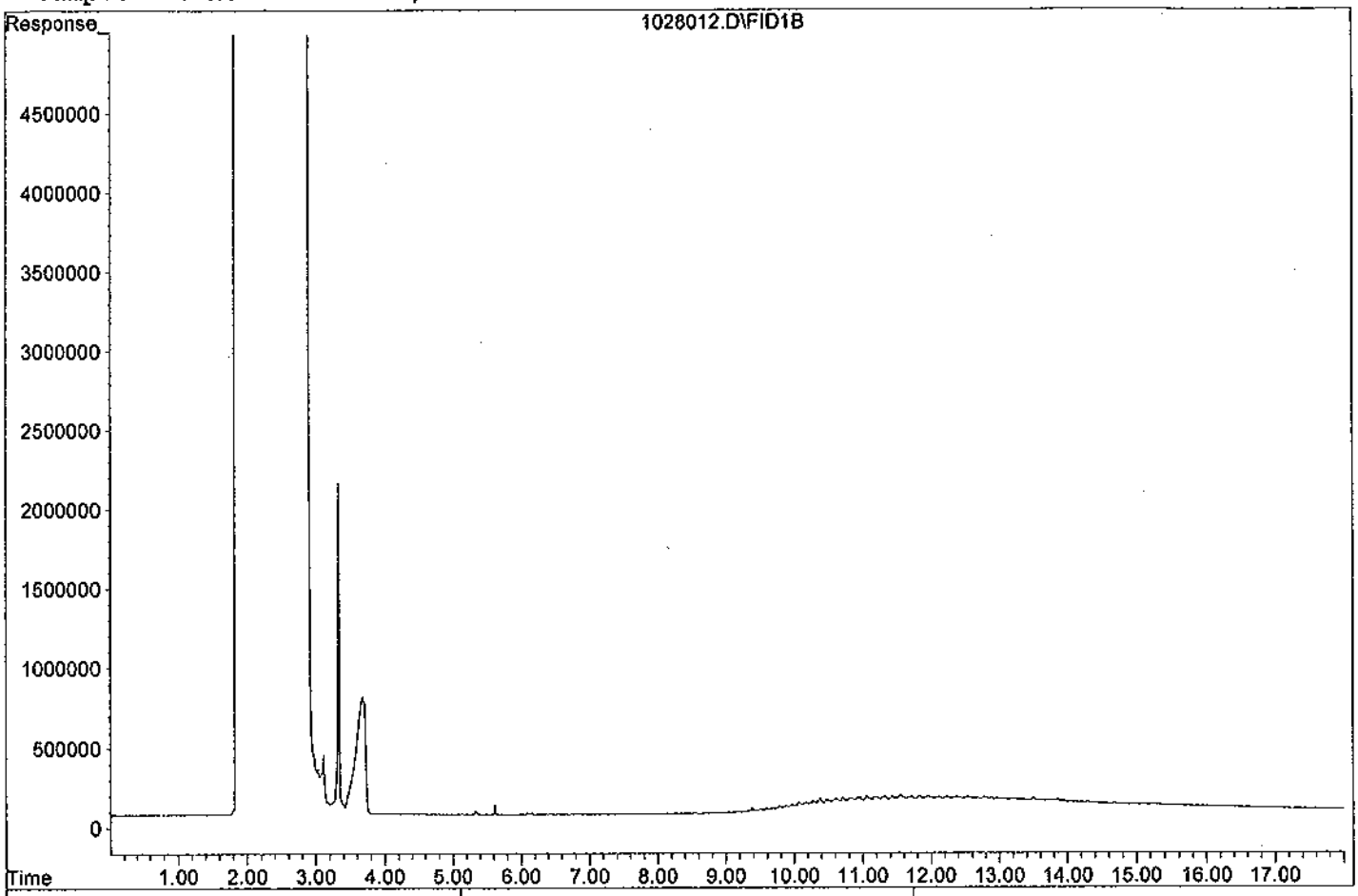
Data File : G:\APOLLO\DATA\111028\1028012.D Vial: 12
Acq On : 10-28-11 13:24:39 Operator: LAC
Sample : MOTOR OIL 600/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

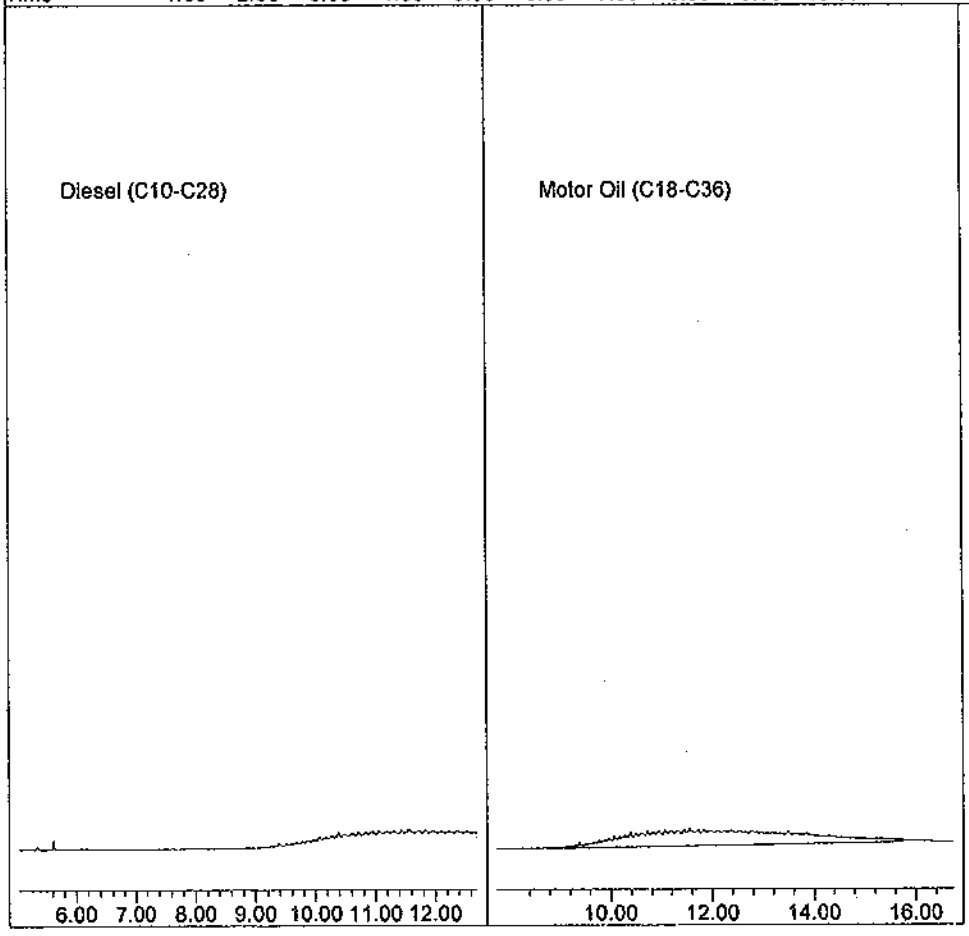
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.25	216778154	599.242 ppb

Data File: G:\APOLLO\DATA\111028\1028012.D
Sample : MOTOR OIL 600/1000





Quantitation Report (Not Reviewed)

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

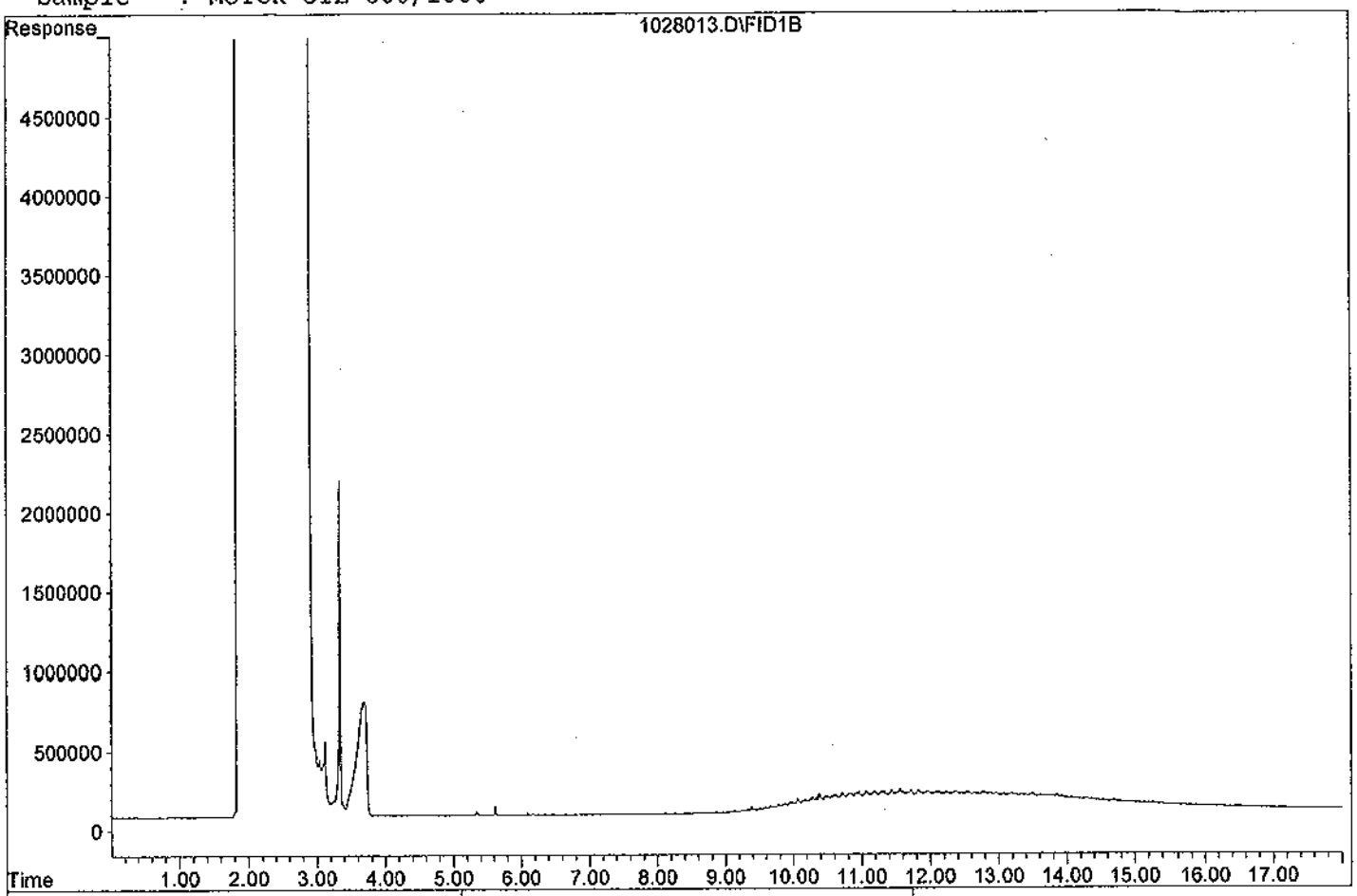
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

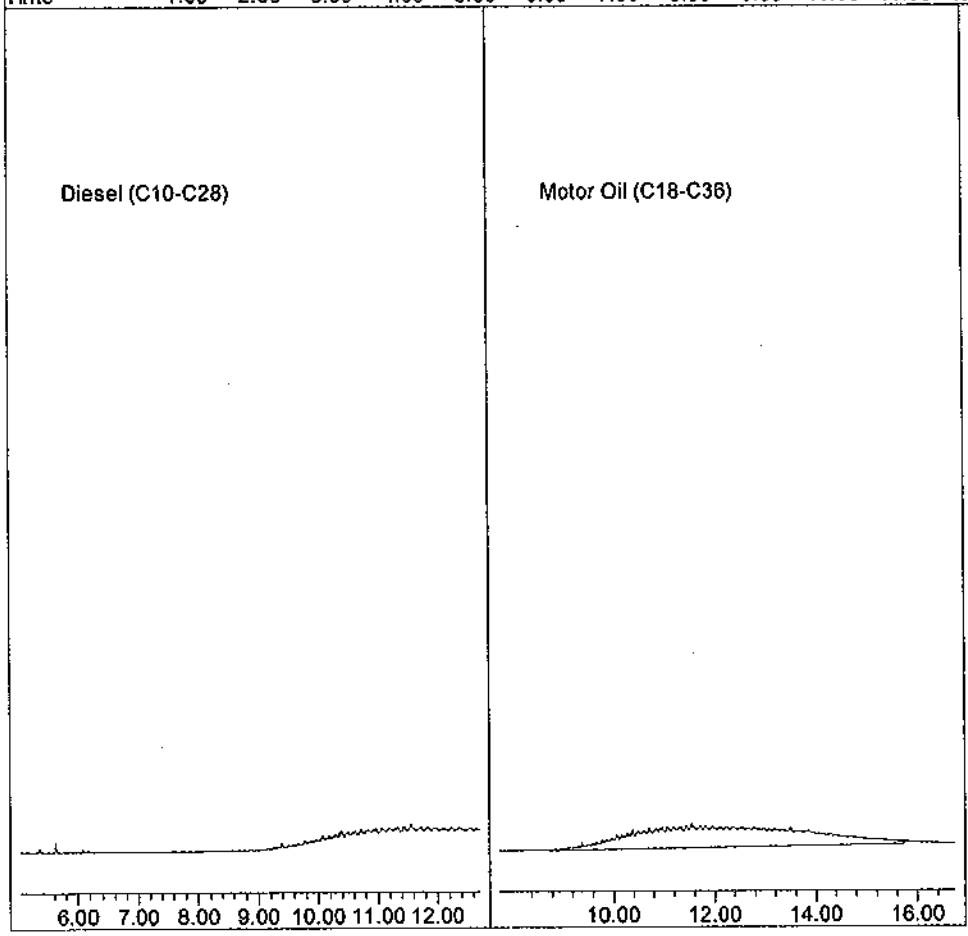
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.25	303785051	839.757 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028013.D
Sample : MOTOR OIL 800/1000





Quantitation Report (Not Reviewed)

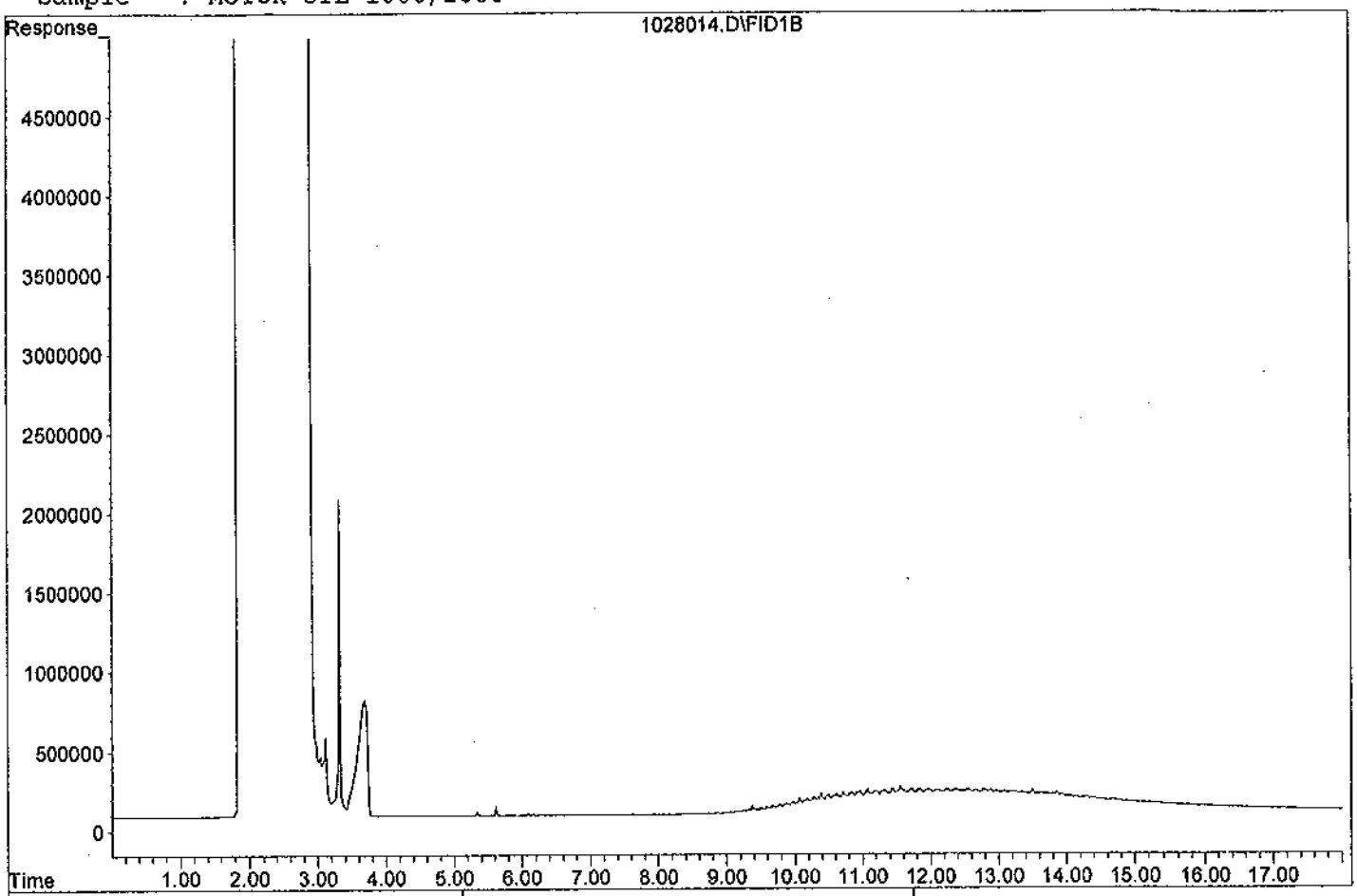
Data File : G:\APOLLO\DATA\111028\1028014.D Vial: 14
Acq On : 10-28-11 14:13:14 Operator: LAC
Sample : MOTOR OIL 1000/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

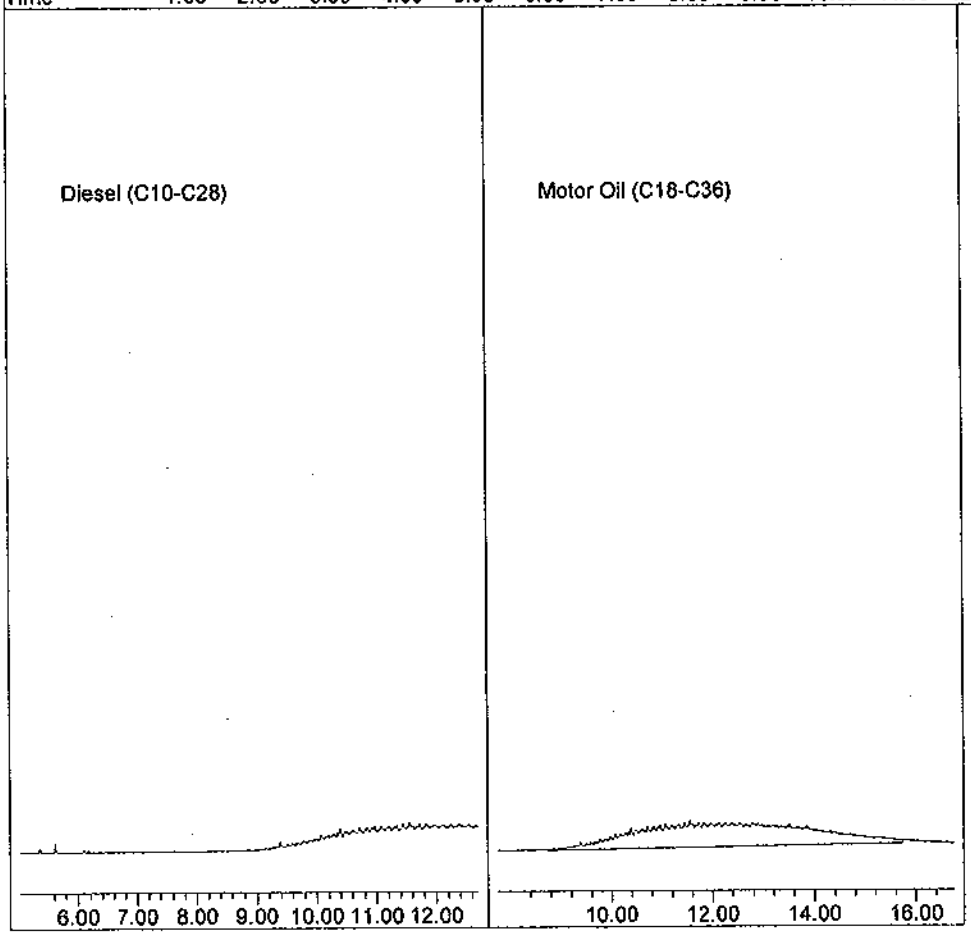
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

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





Quantitation Report (Not Reviewed)

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

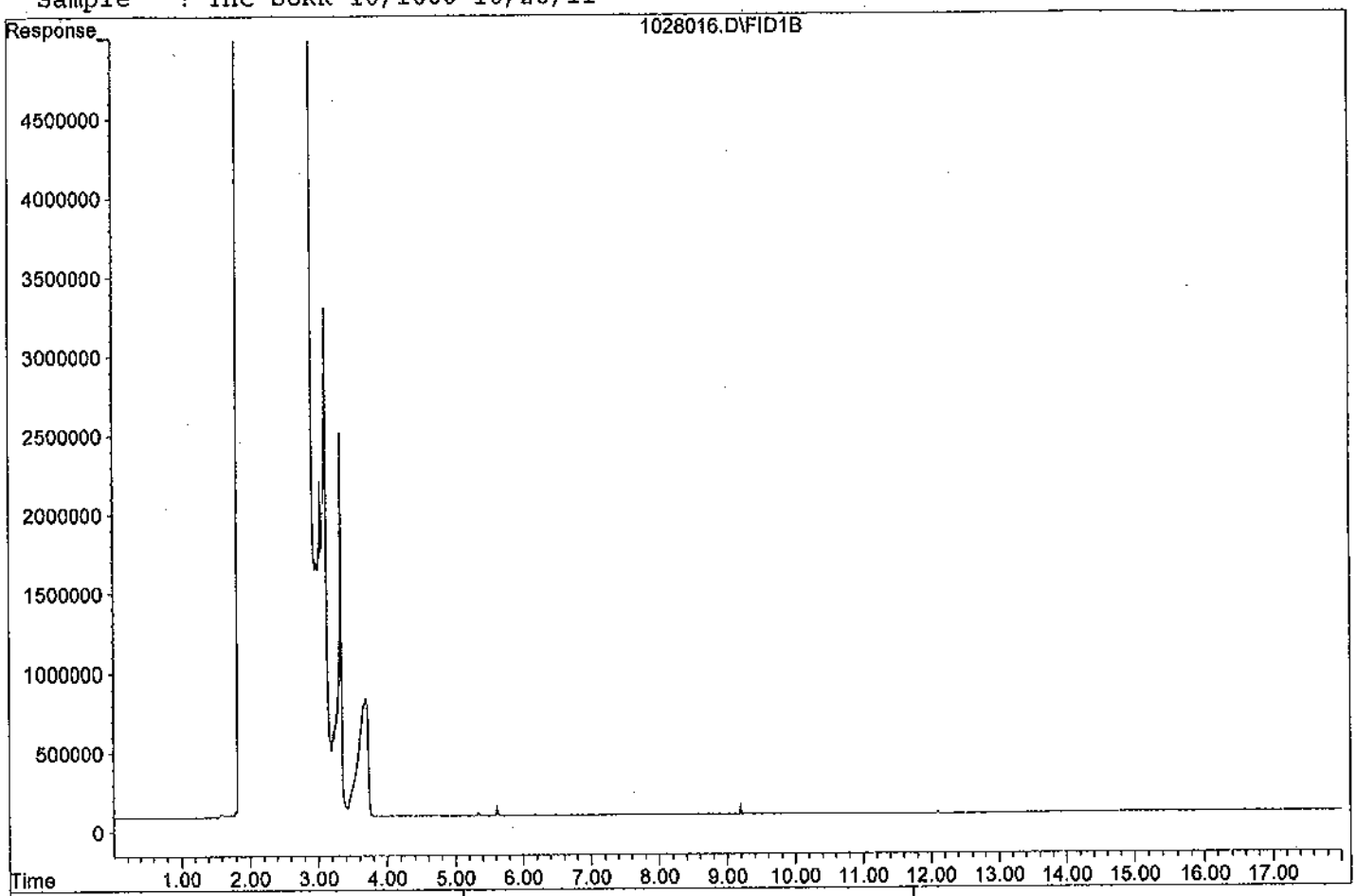
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

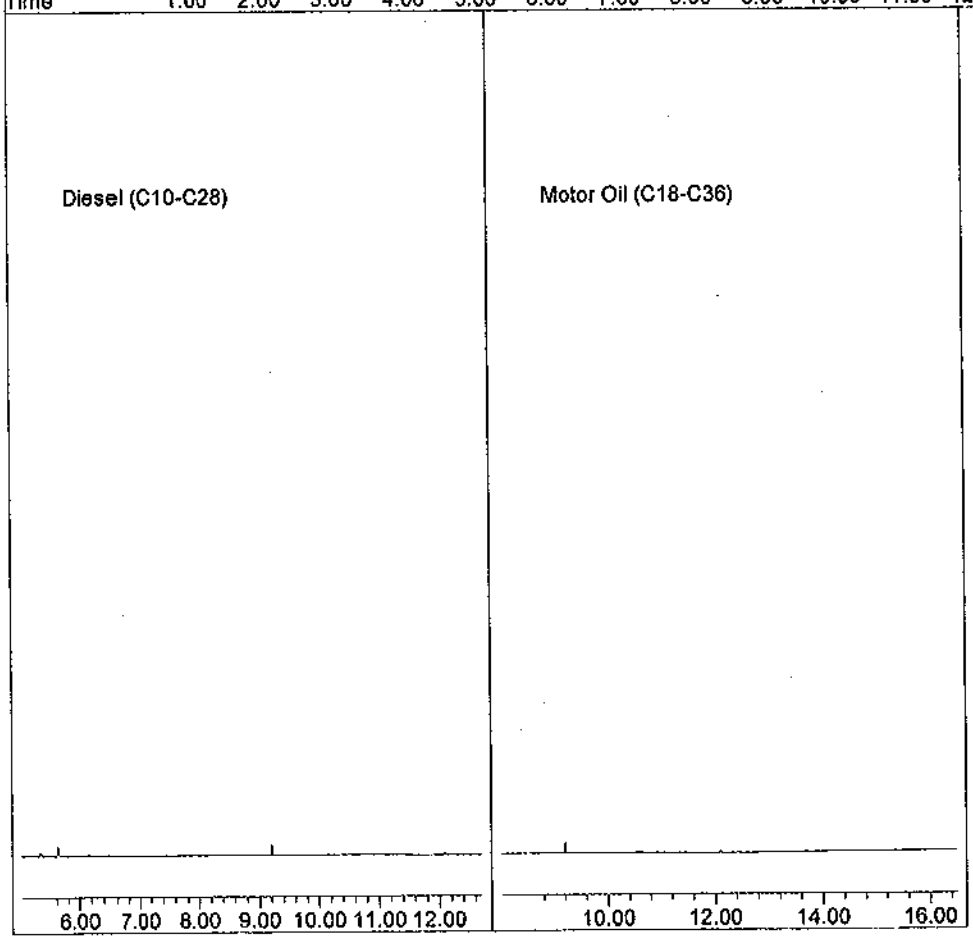
Compound	R.T.	Response	Conc	Units

System Monitoring Compounds

Target Compounds

Data File: G:\APOLLO\DATA\111028\1028016.D
Sample : THC SURR 10/1000 10/28/11





Quantitation Report (Not Reviewed)

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

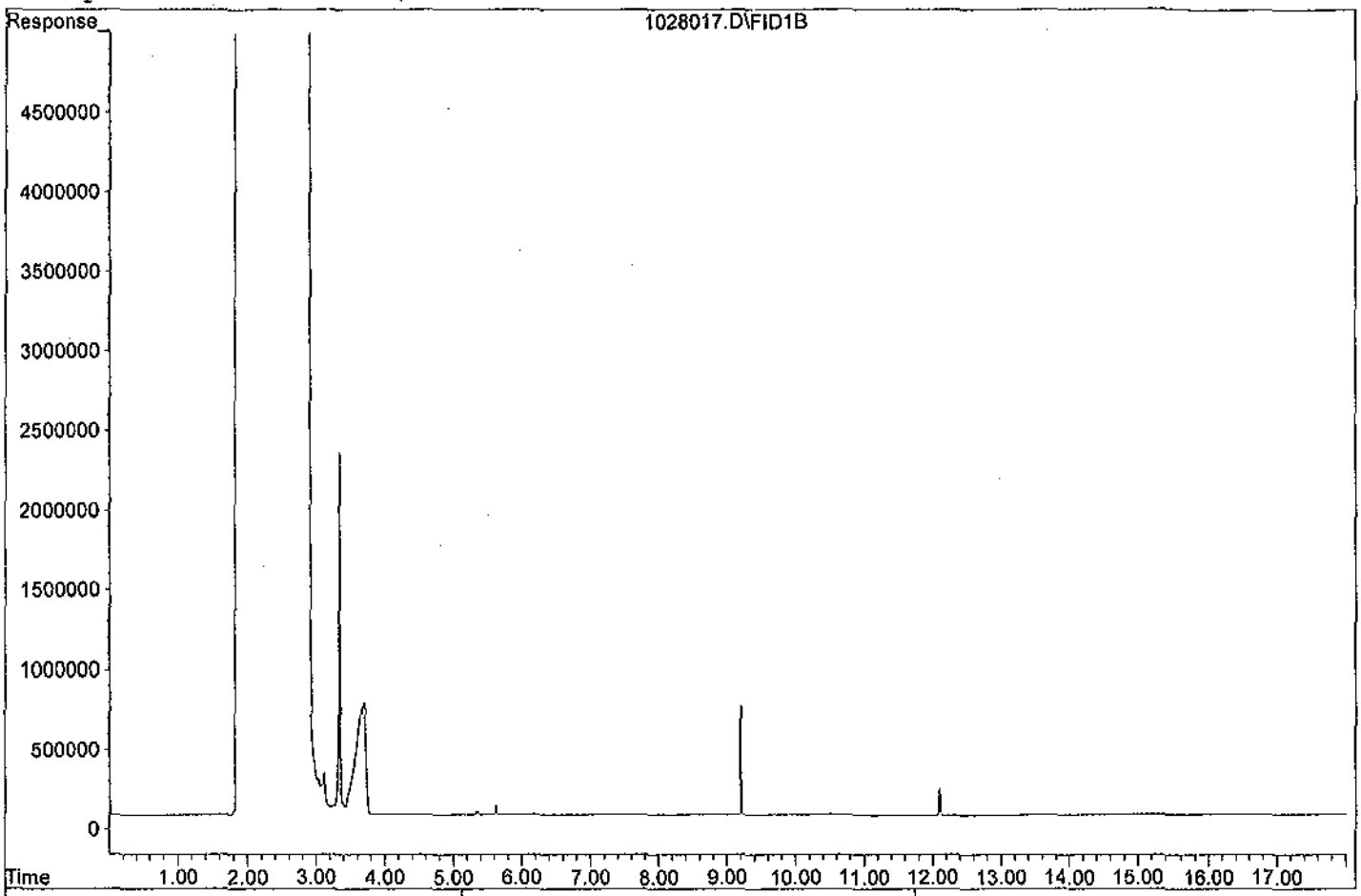
Compound	R.T.	Response	Conc	Units

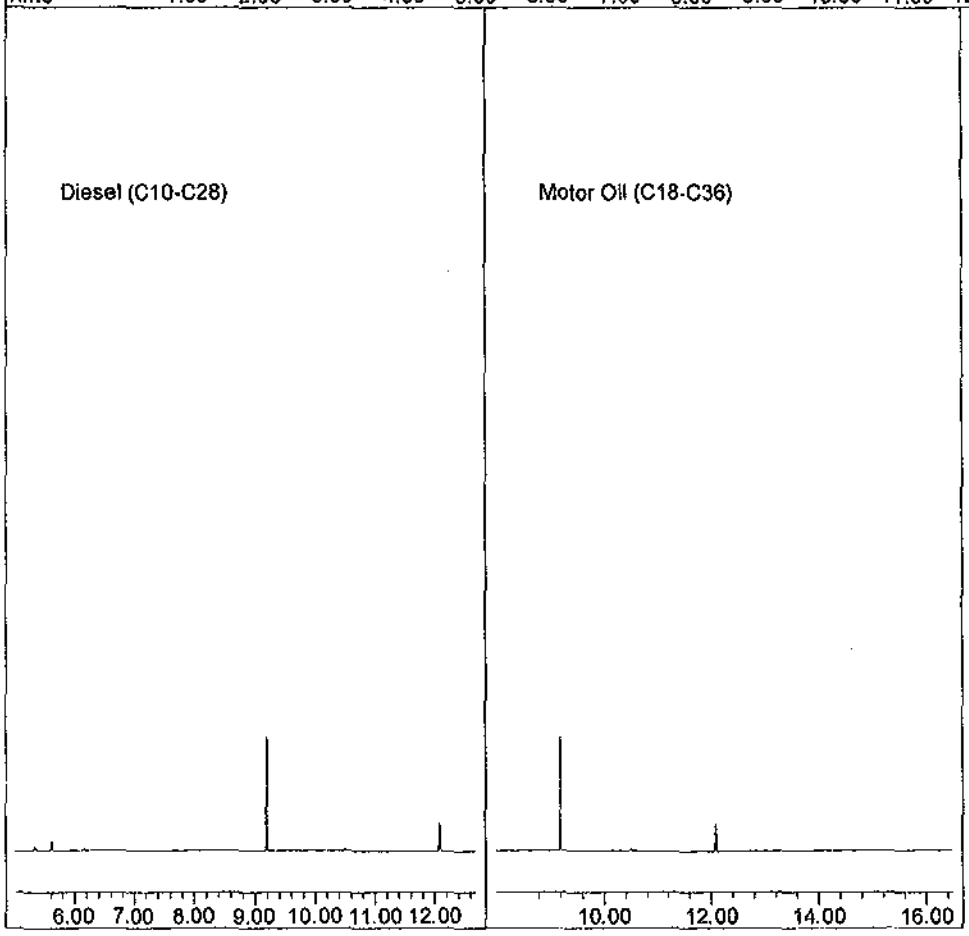
System Monitoring Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028017.D
Sample : THC SURR 100/1000





Quantitation Report (Not Reviewed)

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

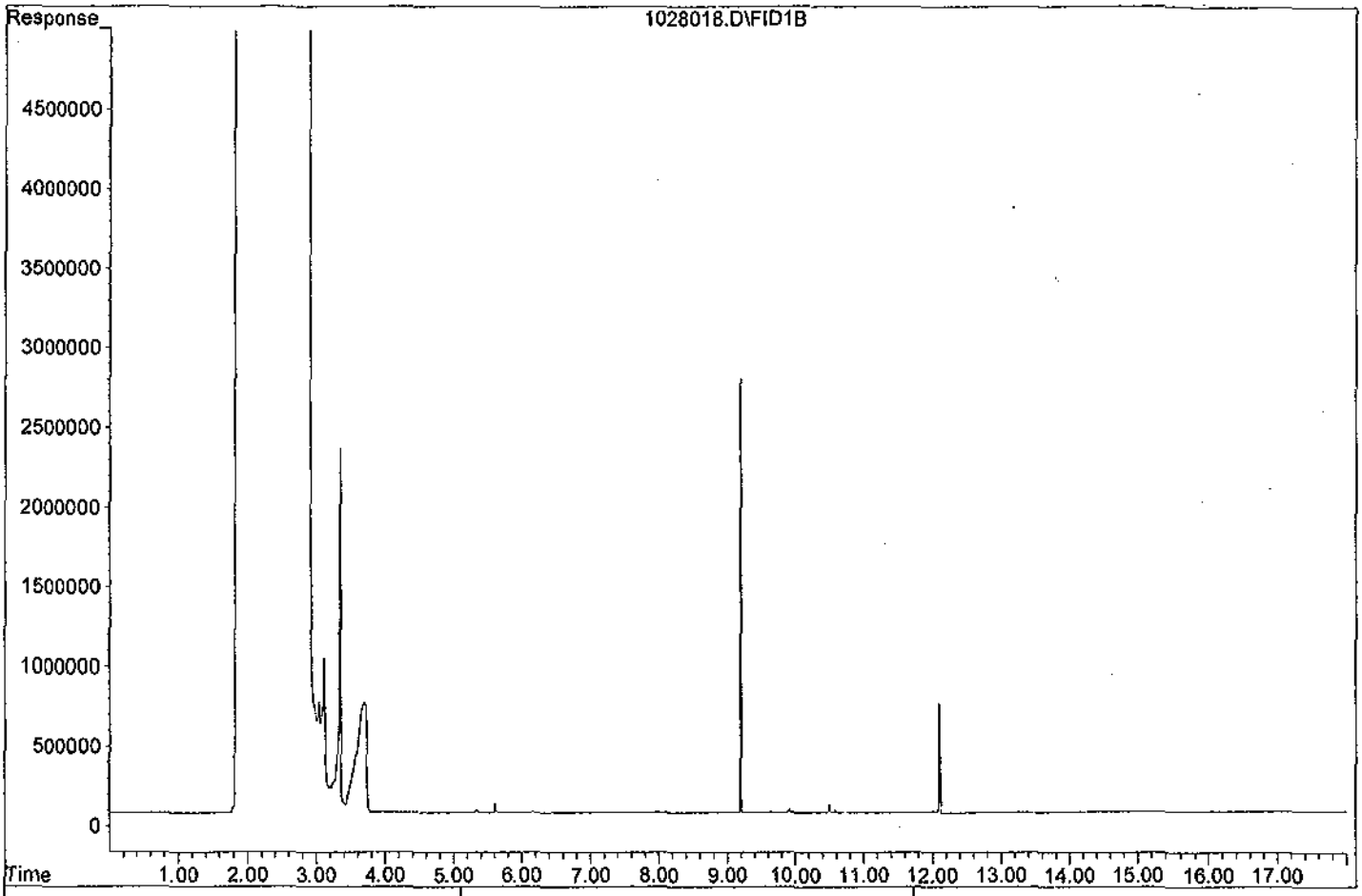
Compound	R.T.	Response	Conc	Units

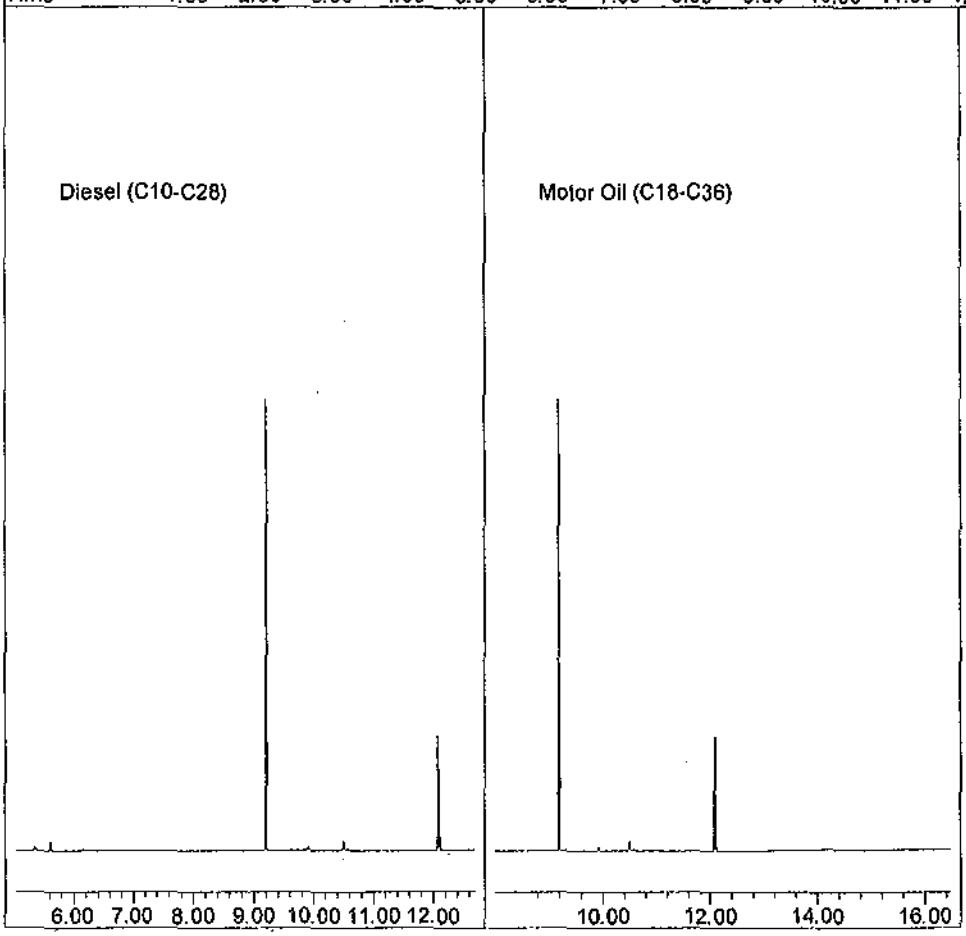
System Monitoring Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028018.D
Sample : THC SURR 400/1000





Quantitation Report (Not Reviewed)

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

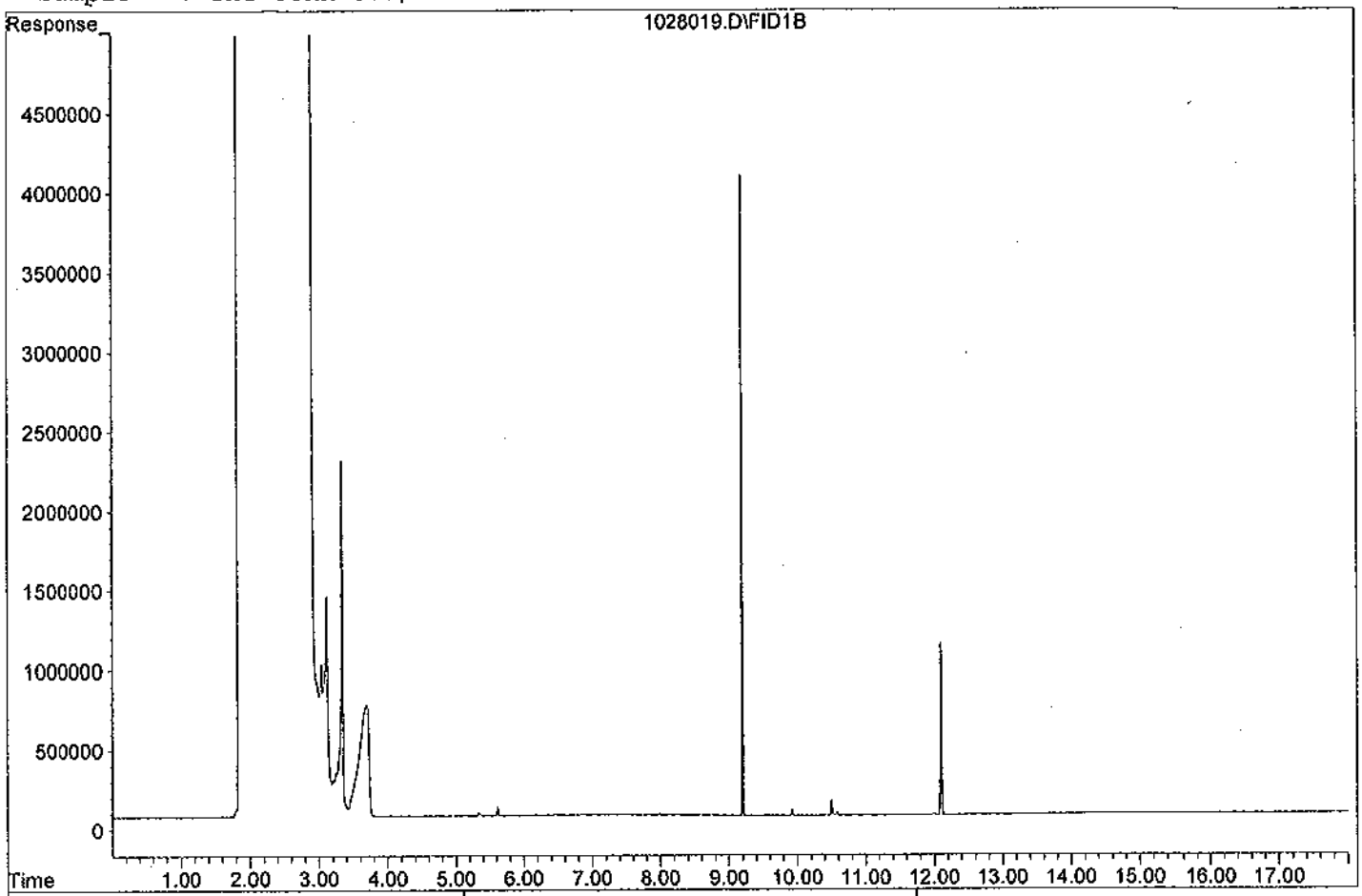
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

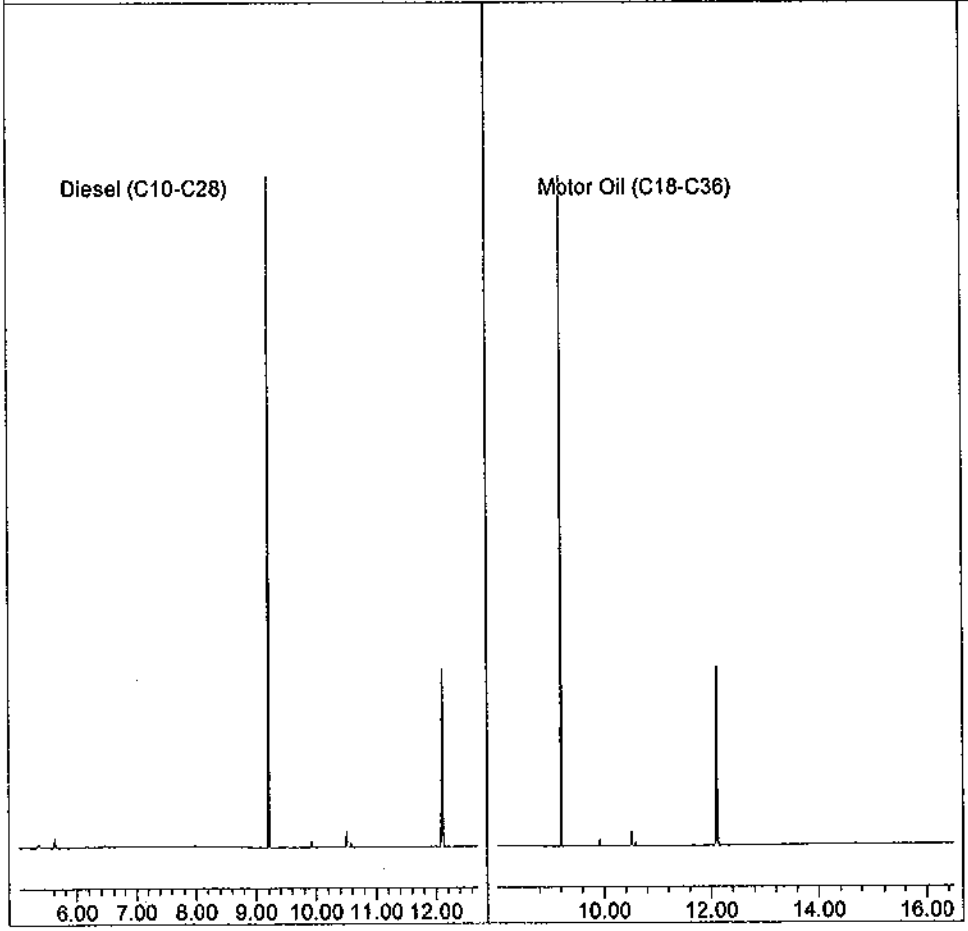
Compound	R.T.	Response	Conc	Units

System Monitoring Compounds

Target Compounds

Data File: G:\APOLLO\DATA\111028\1028019.D
Sample : THC SURR 600/1000





Quantitation Report (Not Reviewed)

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

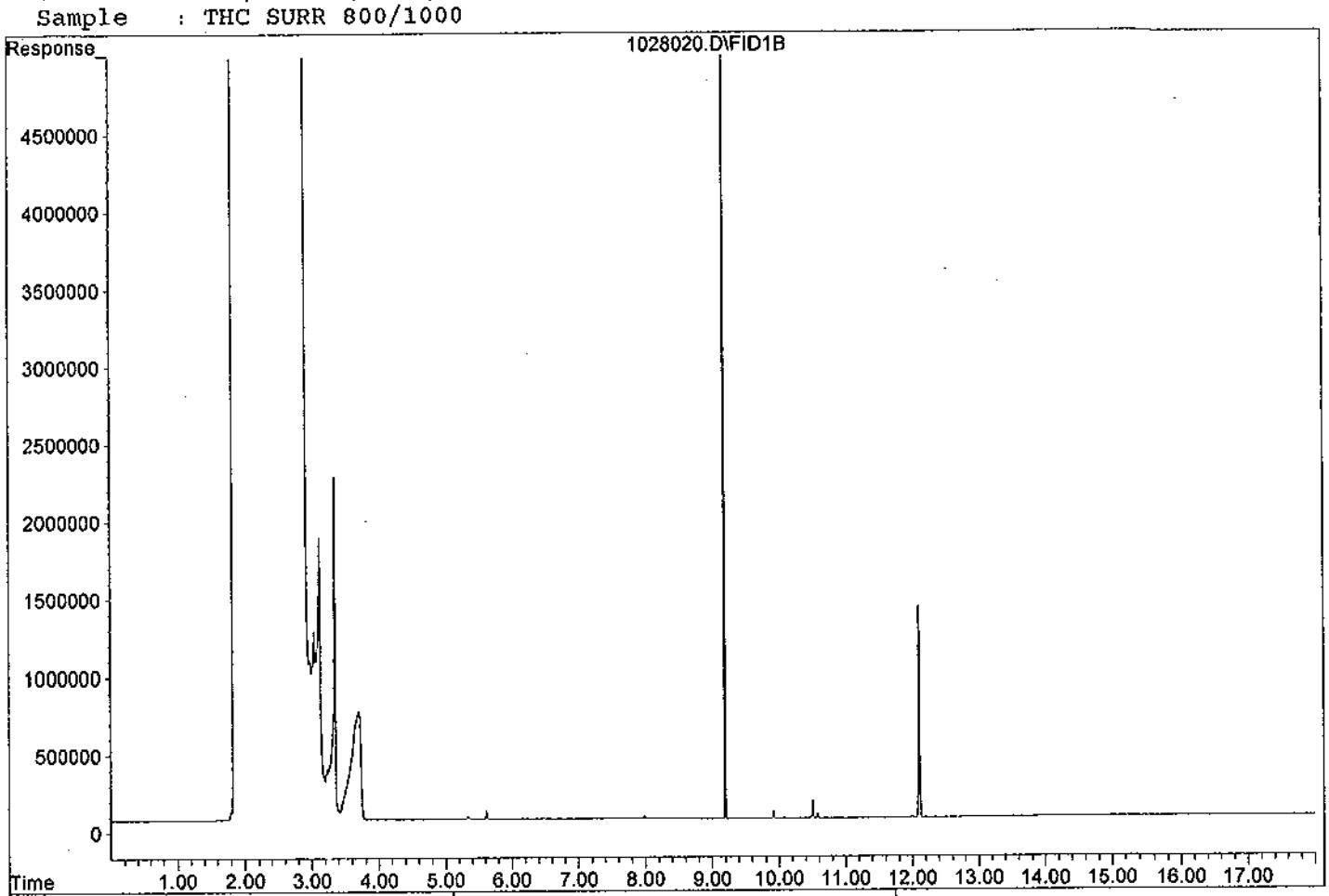
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

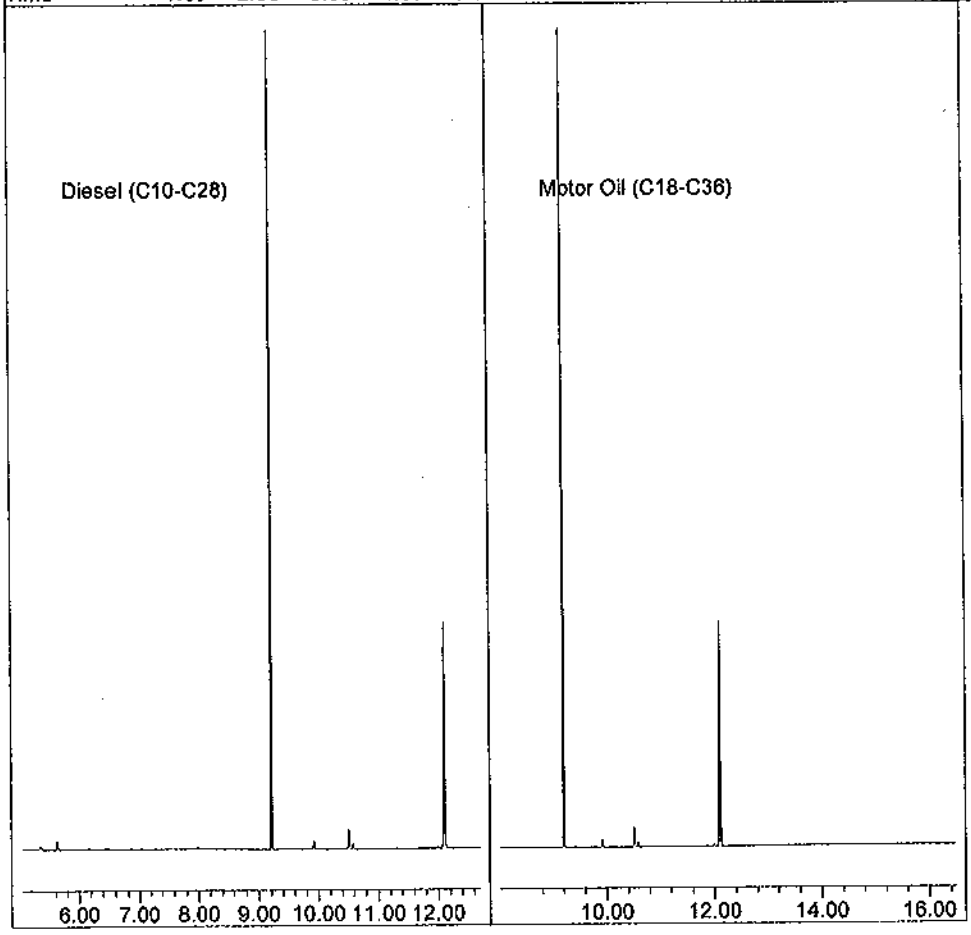
Compound	R.T.	Response	Conc Units

System Monitoring Compounds

Target Compounds

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





Quantitation Report (Not Reviewed)

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

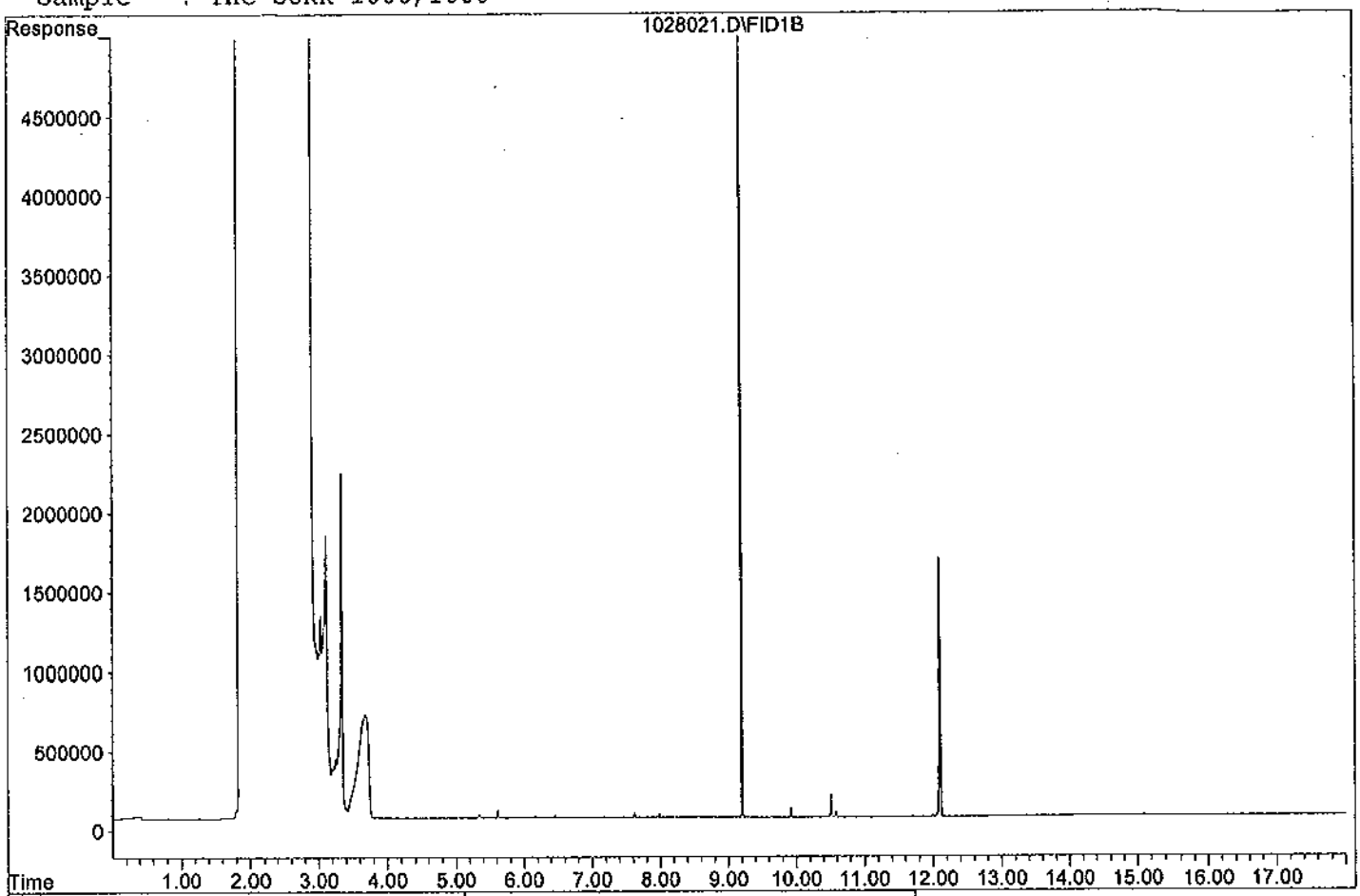
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

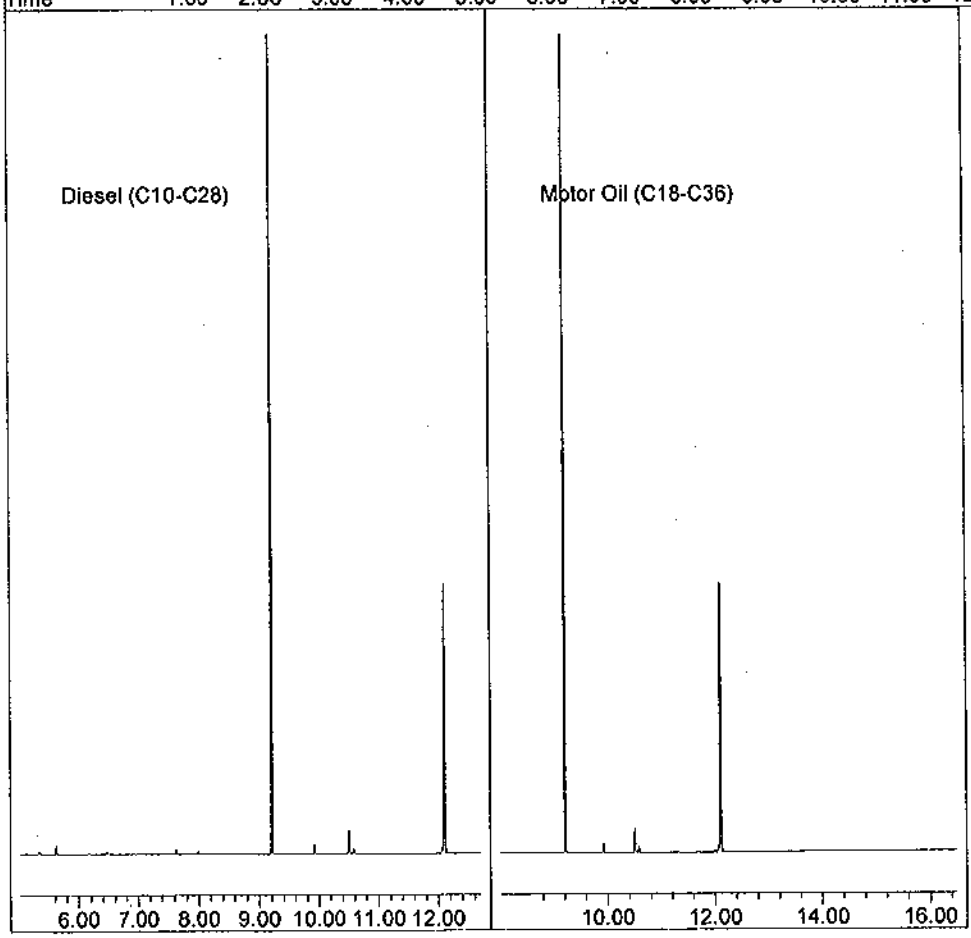
Compound	R.T.	Response	Conc	Units

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: 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							
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		

Quantitation Report (Not Reviewed)

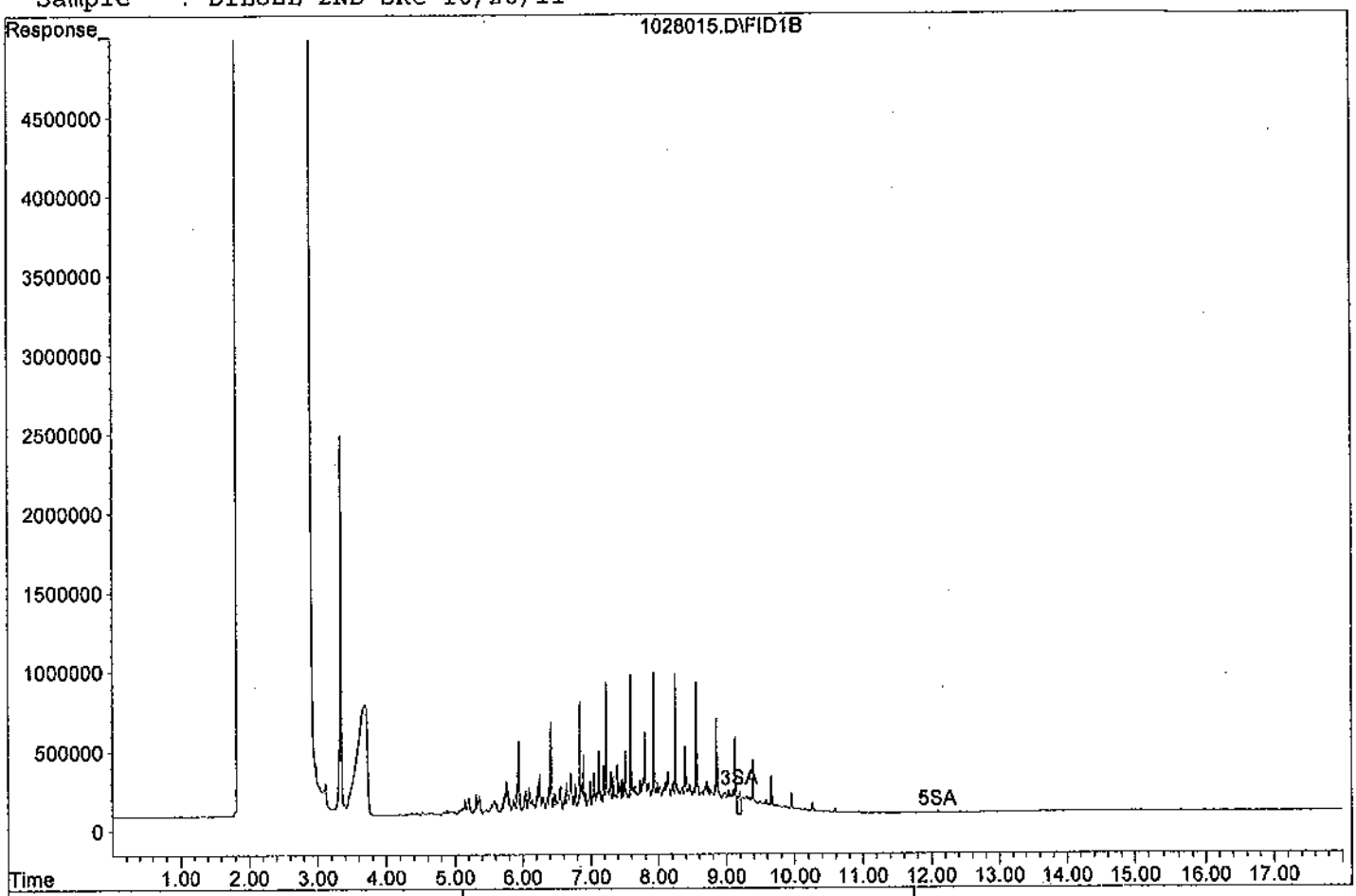
Data File : G:\APOLLO\DATA\111028\1028015.D Vial: 15
Acq On : 10-28-11 14:37:14 Operator: LAC
Sample : DIESEL 2ND SRC 10/28/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 14:00 2011 Quant Results File: TPH1028.RES

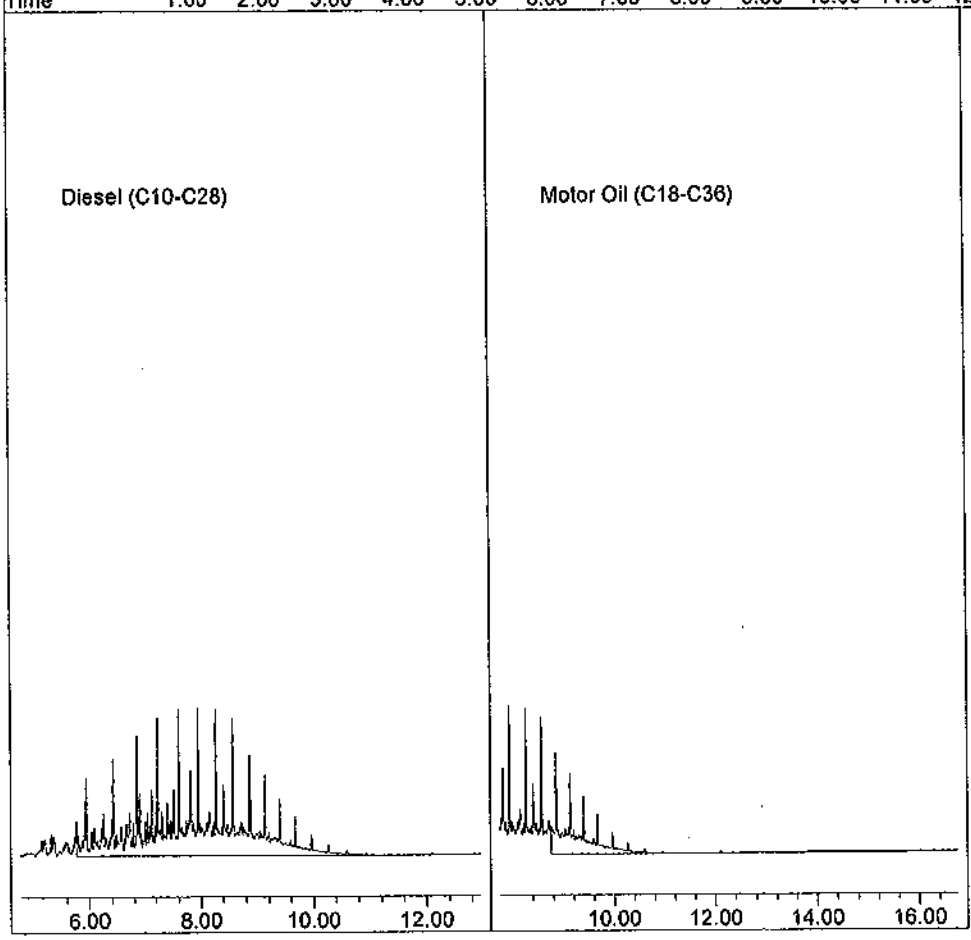
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

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: 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							
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		

Quantitation Report (Not Reviewed)

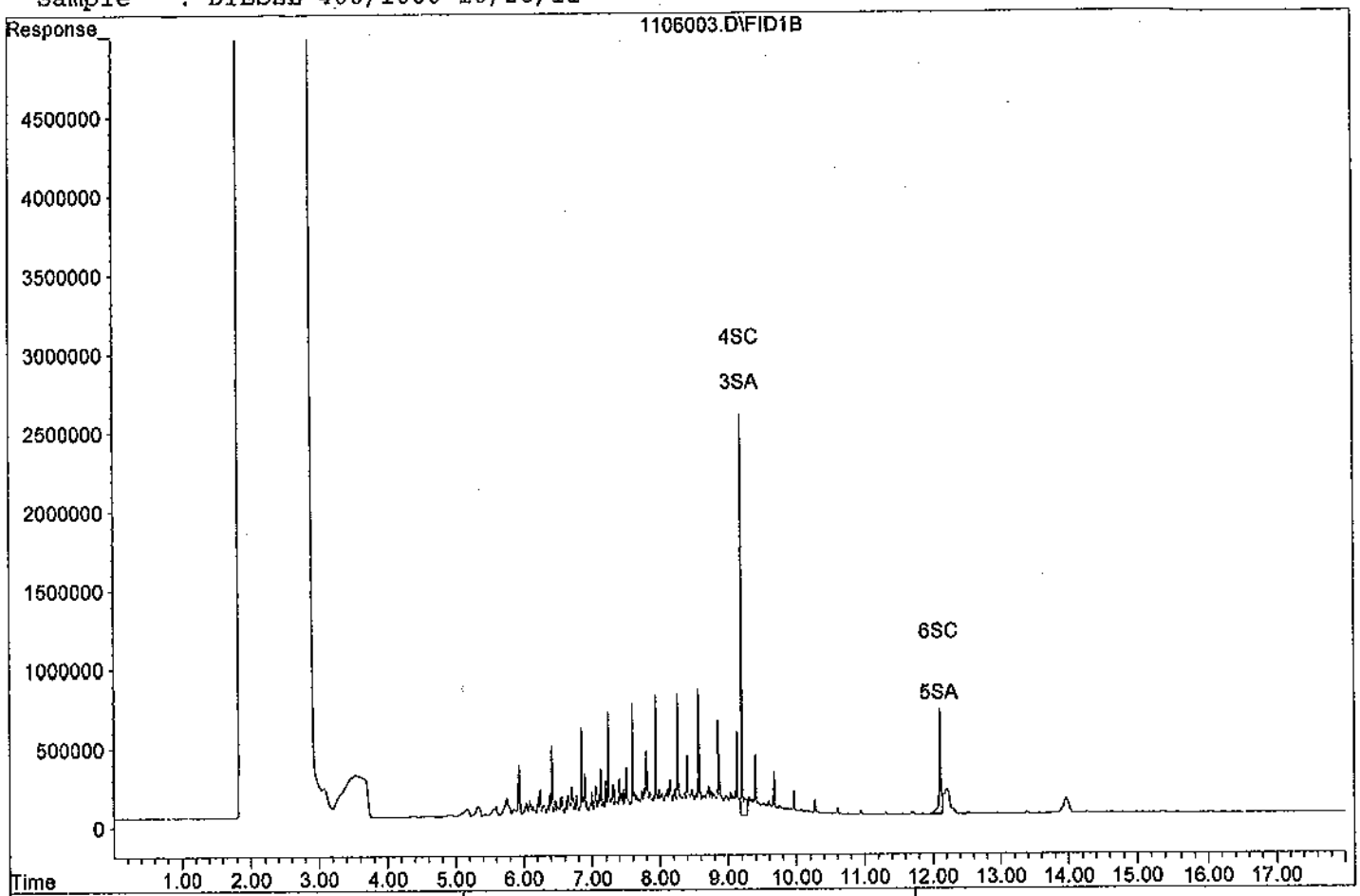
Data File : G:\APOLLO\DATA\111106\1106003.D Vial: 3
Acq On : 11-6-11 16:34:49 Operator: LAC
Sample : DIESEL 400/1000 10/28/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 7 9:16 2011 Quant Results File: TPH1028.RES

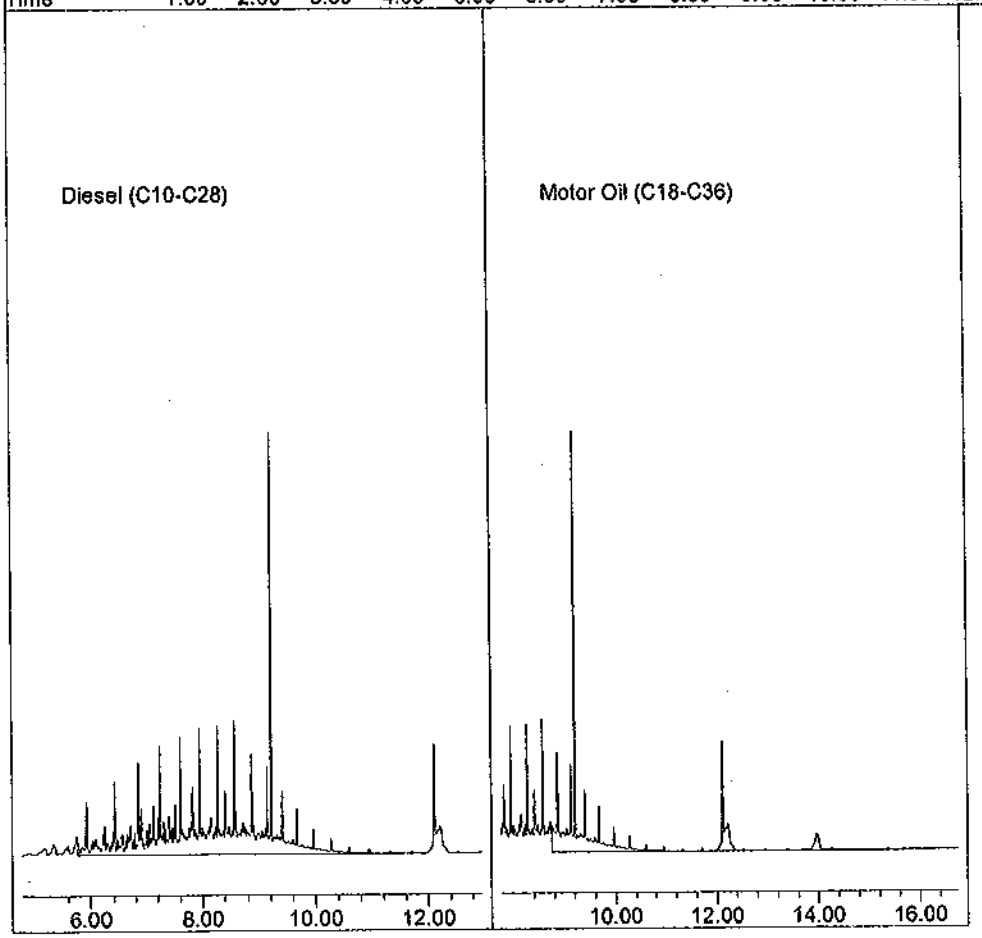
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

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: 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							
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		

Quantitation Report (Not Reviewed)

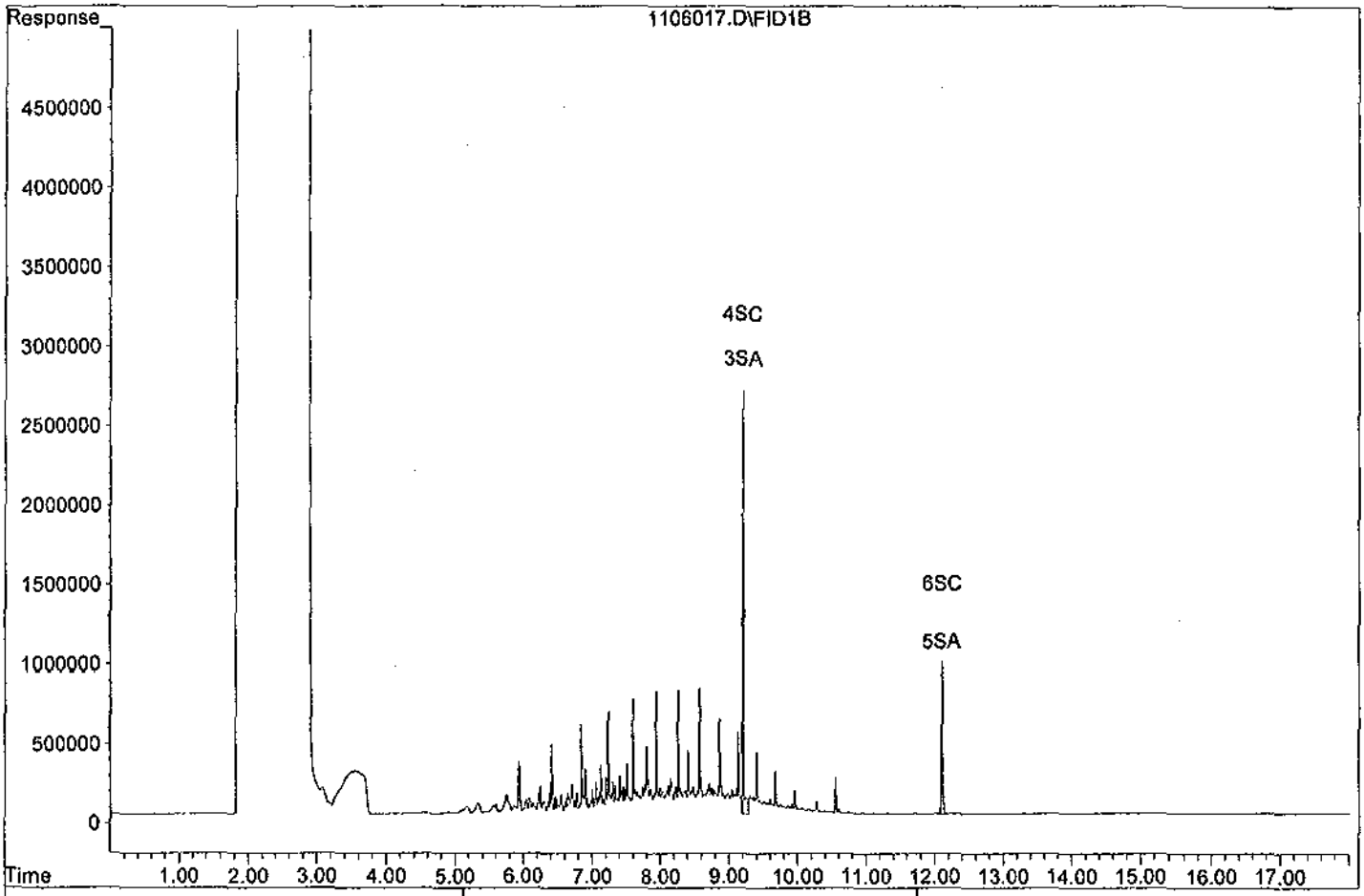
Data File : G:\APOLLO\DATA\111106\1106017.D Vial: 17
Acq On : 11-6-11 22:03:47 Operator: LAC
Sample : DIESEL 400/1000 11/2/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 7 9:17 2011 Quant Results File: TPH1028.RES

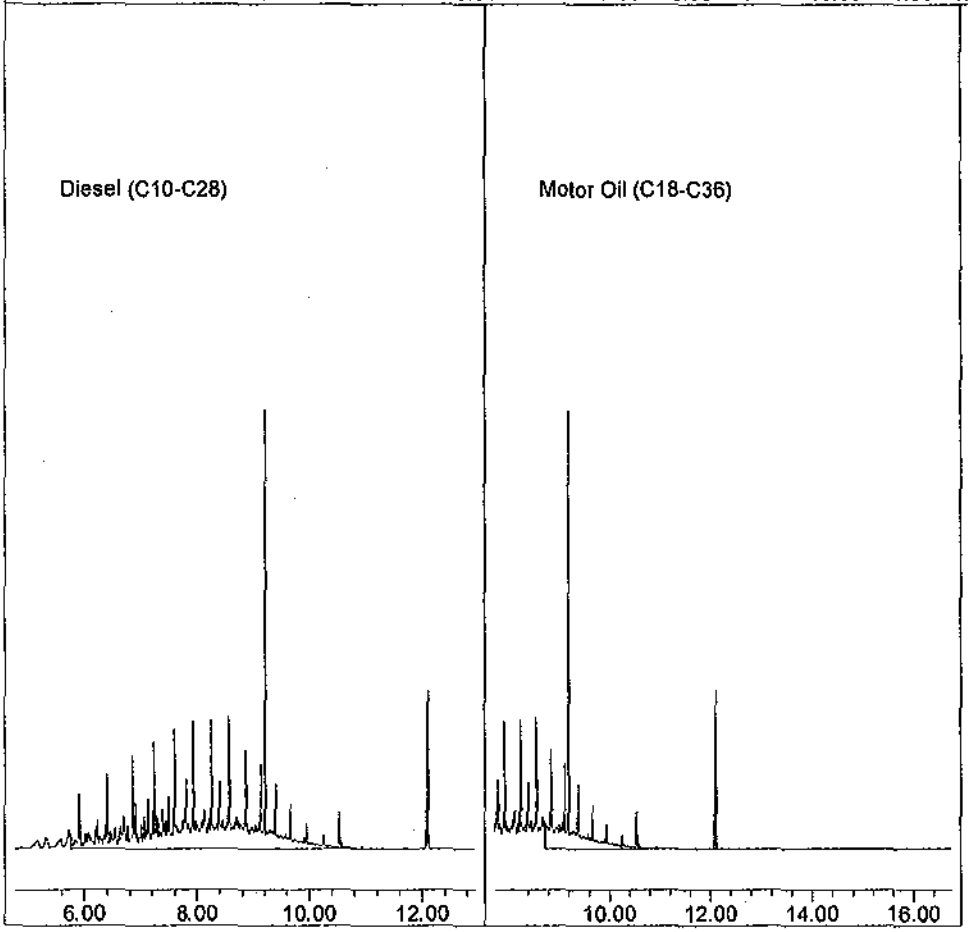
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
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							
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		

Quantitation Report (Not Reviewed)

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

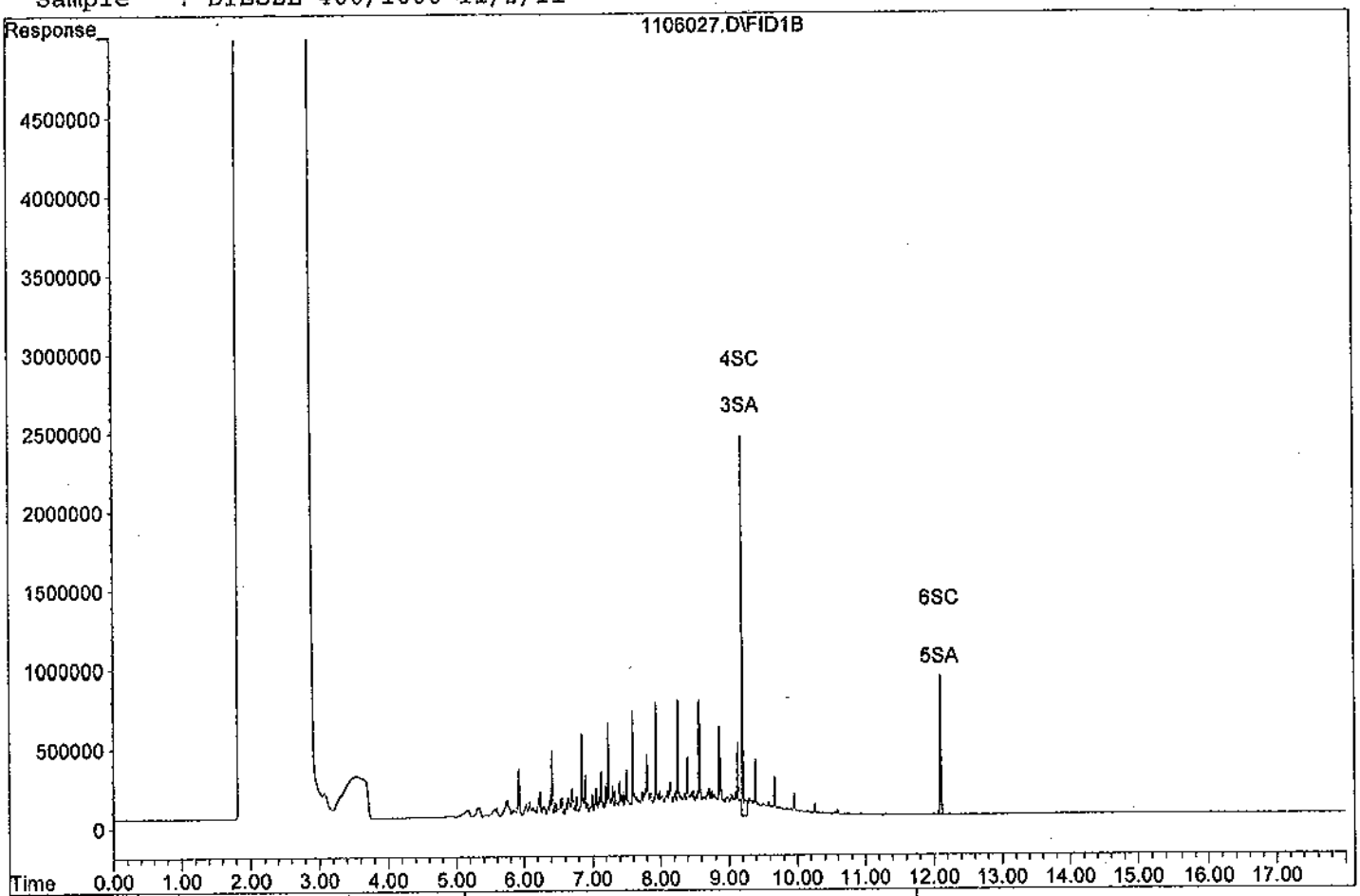
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

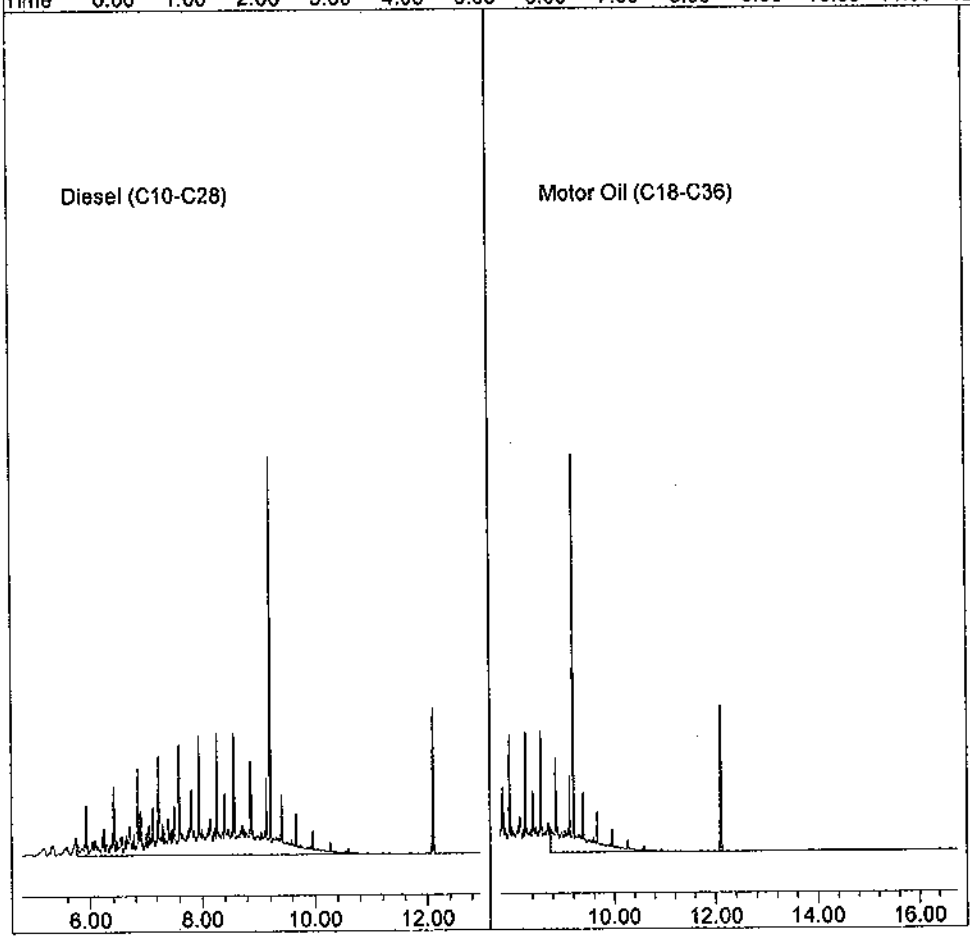
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

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. SDG No: 66116
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					78838	2.8	SA	
6	SC	Octacosane(S)		121445	115156	113245	126484	120297					119325	4.4	SC	
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																

2.4787102

Quantitation Report (Not Reviewed)

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

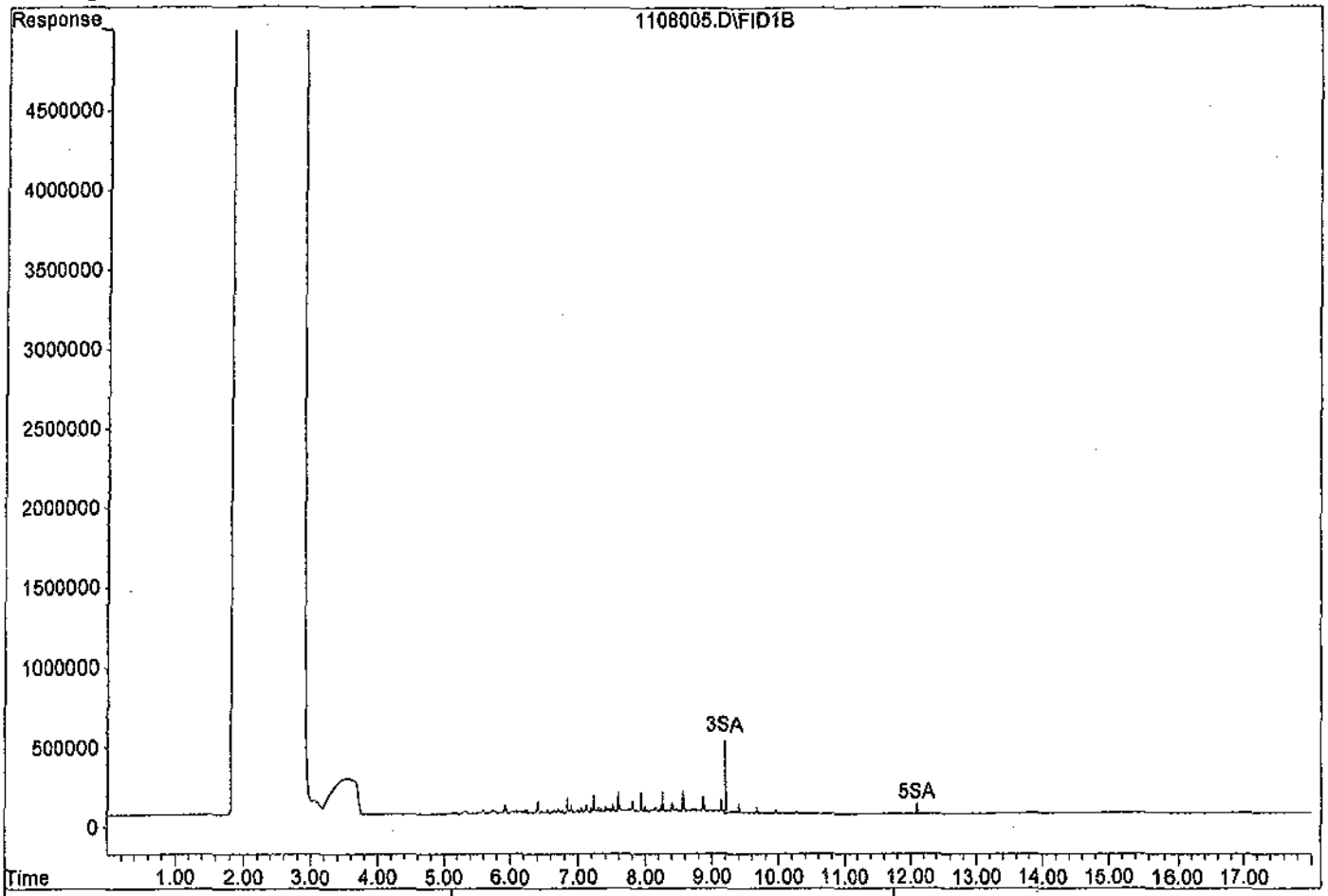
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

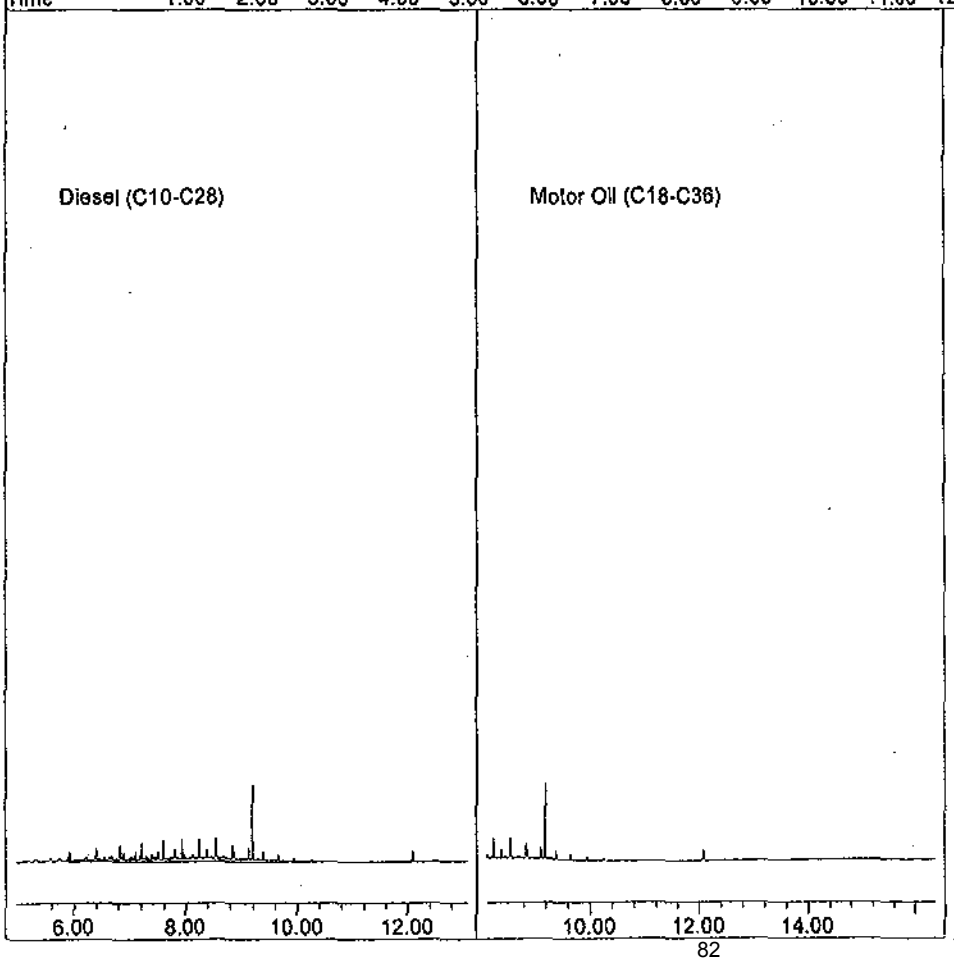
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

(f)=RT Delta > 1/2 Window 81 (m)=manual int.

Data File: G:\APOLLO\DATA\111108\1108005.D
Sample : DIESEL 100/1000





Quantitation Report (Not Reviewed)

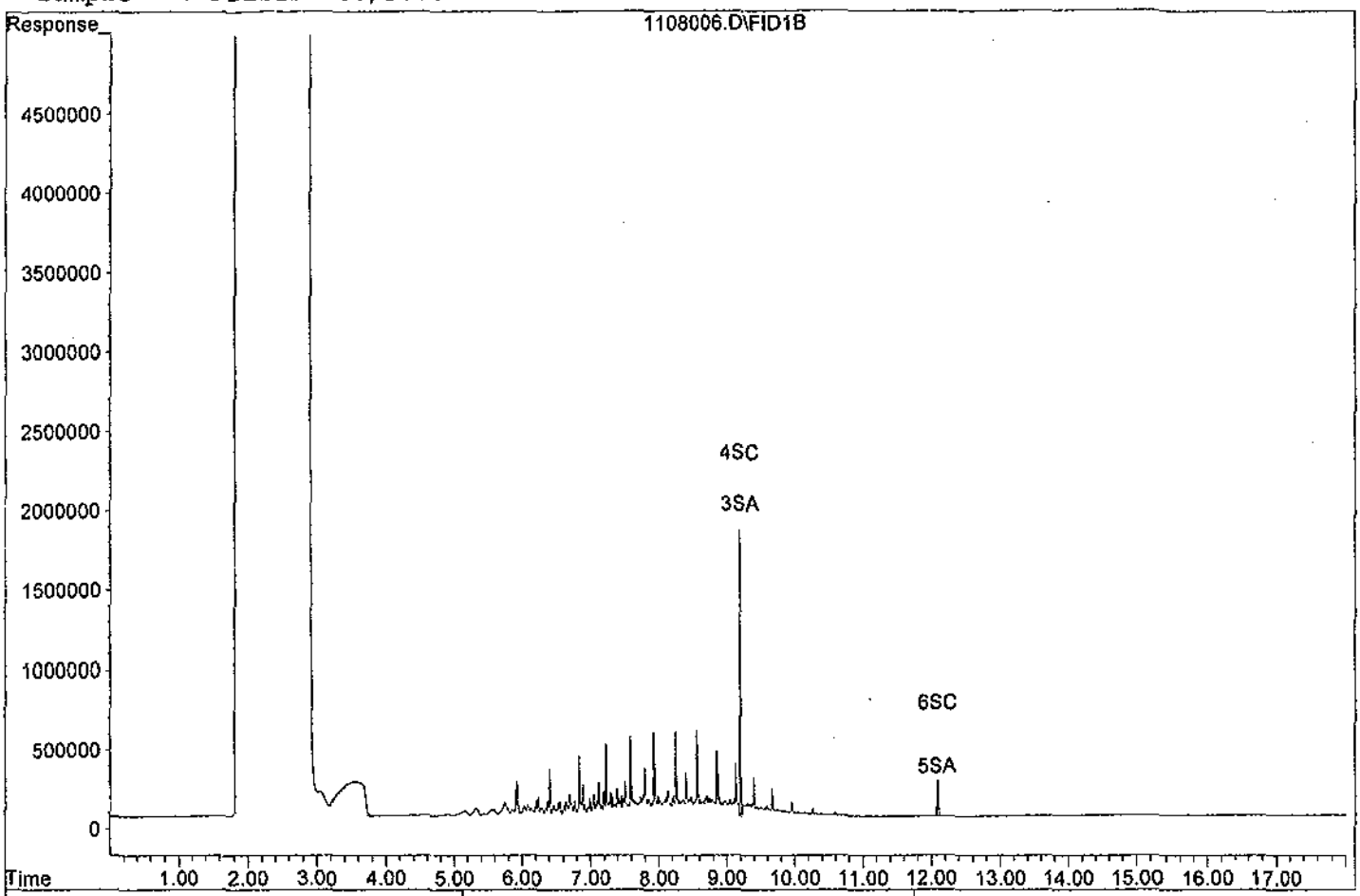
Data File : G:\APOLLO\DATA\111108\1108006.D Vial: 6
Acq On : 11-8-11 16:14:36 Operator: LAC
Sample : DIESEL 400/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 30 11:52 2011 Quant Results File: TPH8S15.RES

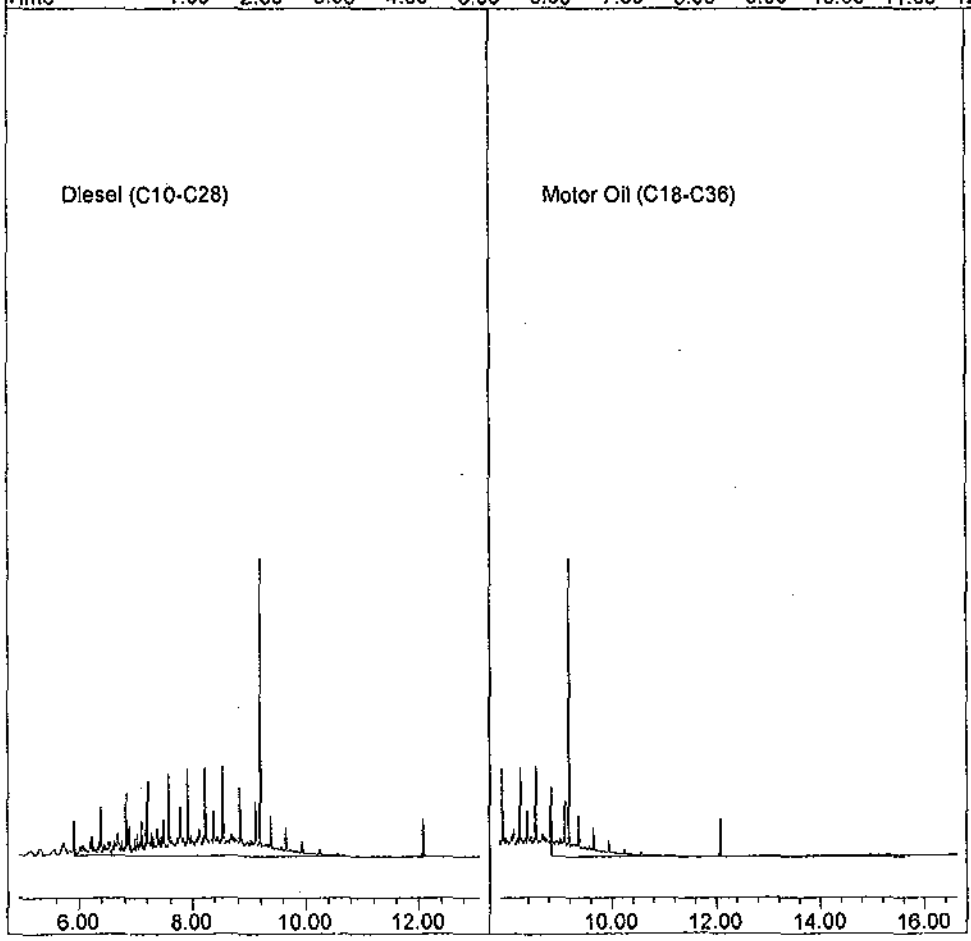
Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Nov 30 11:52:46 2011
Response via : Multiple Level Calibration

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

Data File: G:\APOLLO\DATA\111108\1108006.D
Sample : DIESEL 400/1000





Quantitation Report (Not Reviewed)

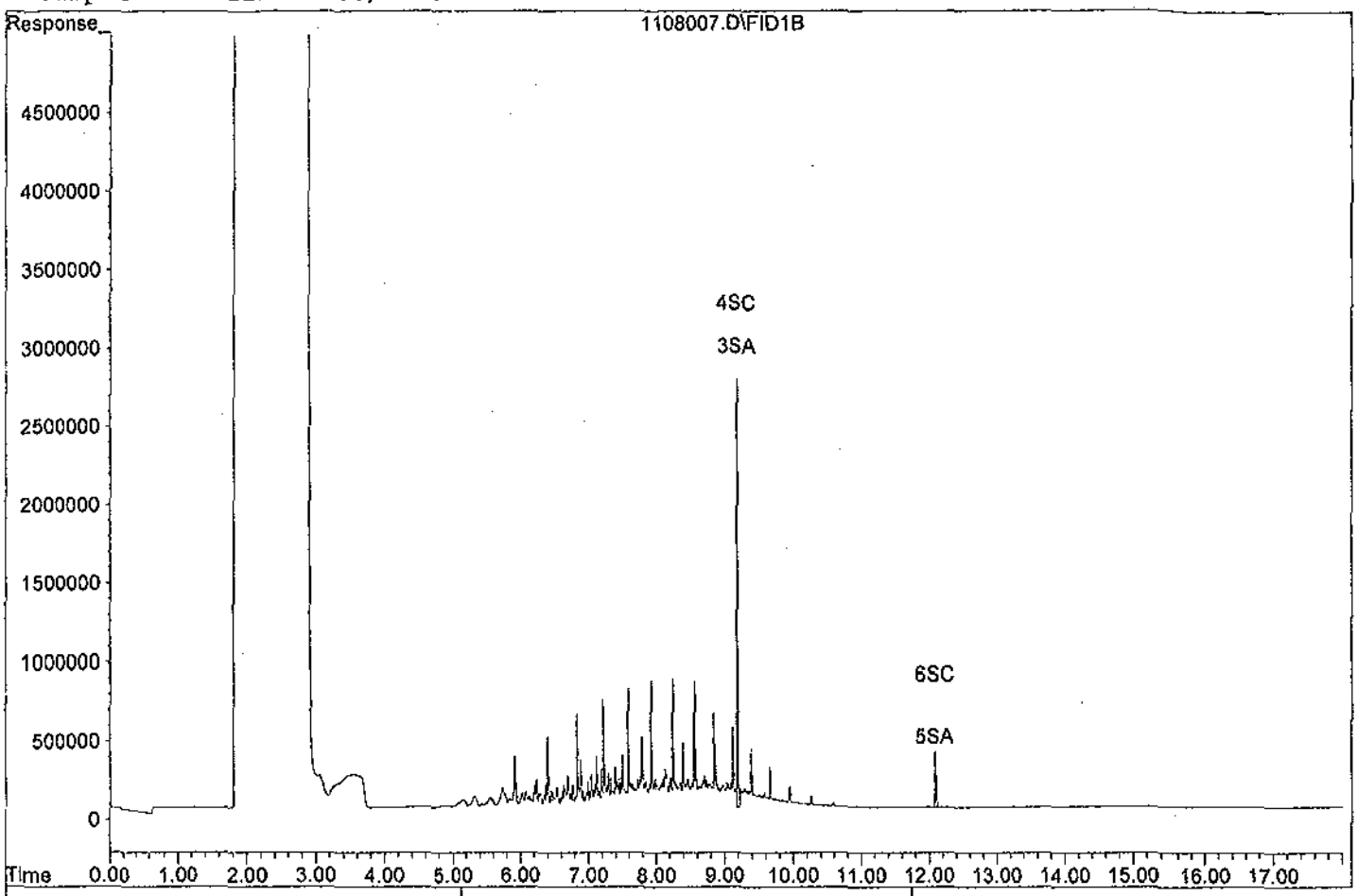
Data File : G:\APOLLO\DATA\111108\1108007.D Vial: 7
Acq On : 11-8-11 16:38:14 Operator: LAC
Sample : DIESEL 600/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 30 11:53 2011 Quant Results File: TPH8S15.RES

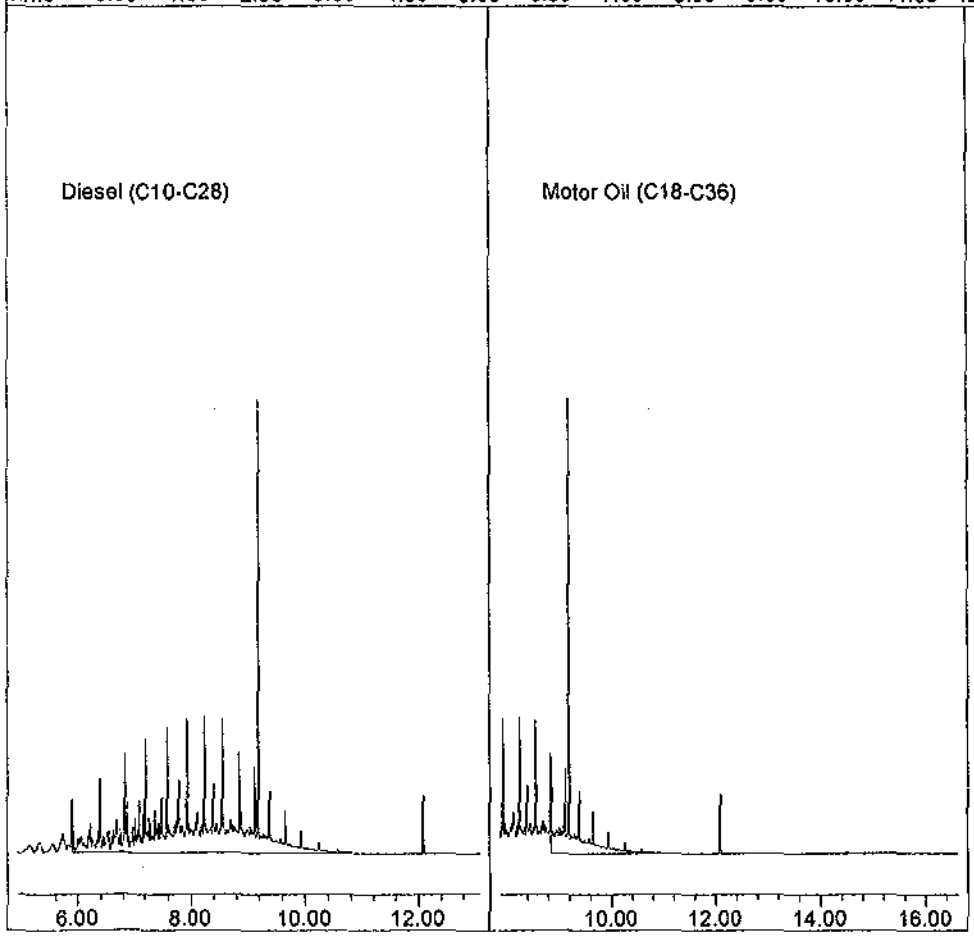
Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Nov 30 11:52:46 2011
Response via : Multiple Level Calibration

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





Quantitation Report (Not Reviewed)

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

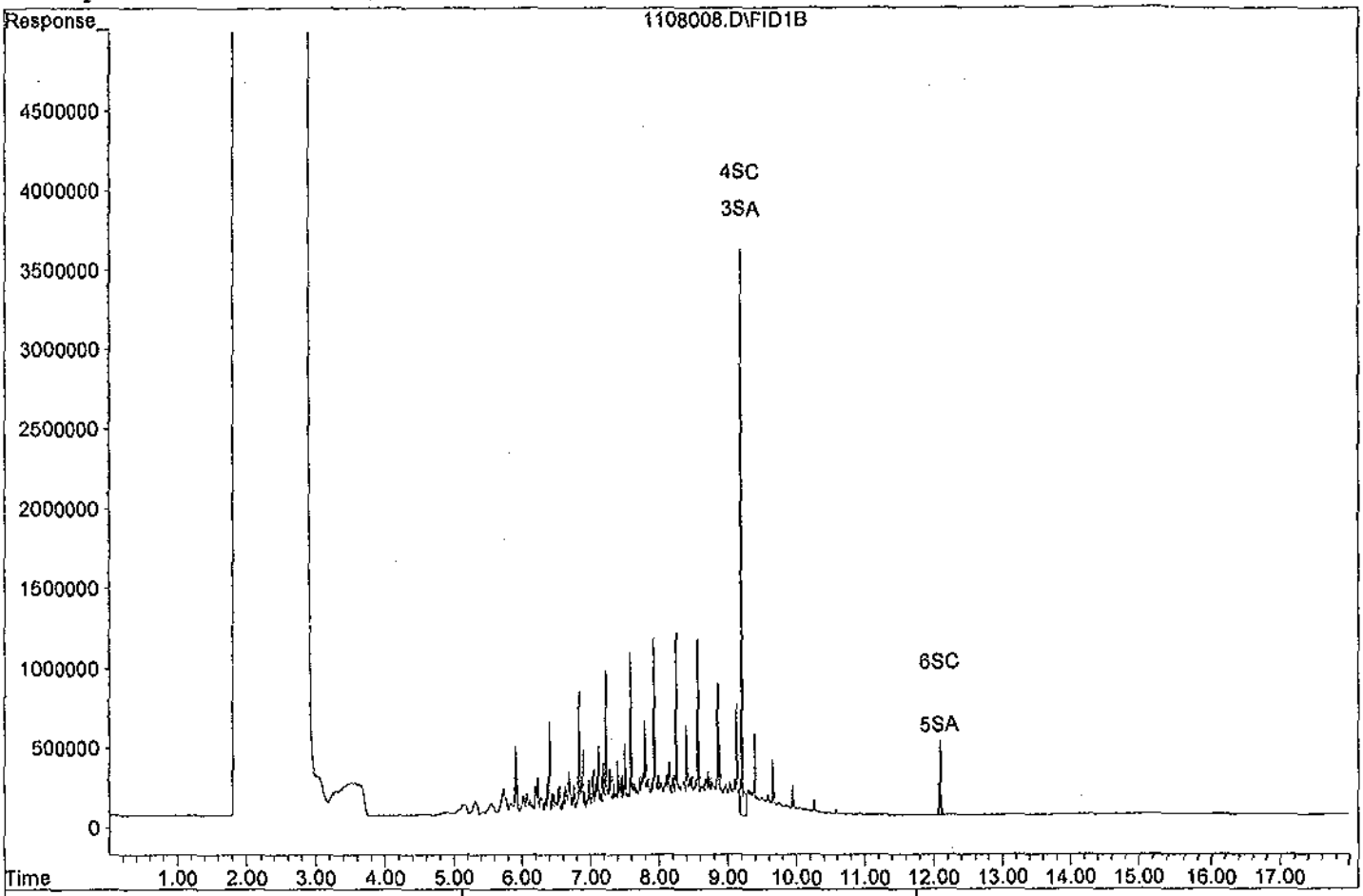
Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Nov 30 11:52:46 2011
Response via : Multiple Level Calibration

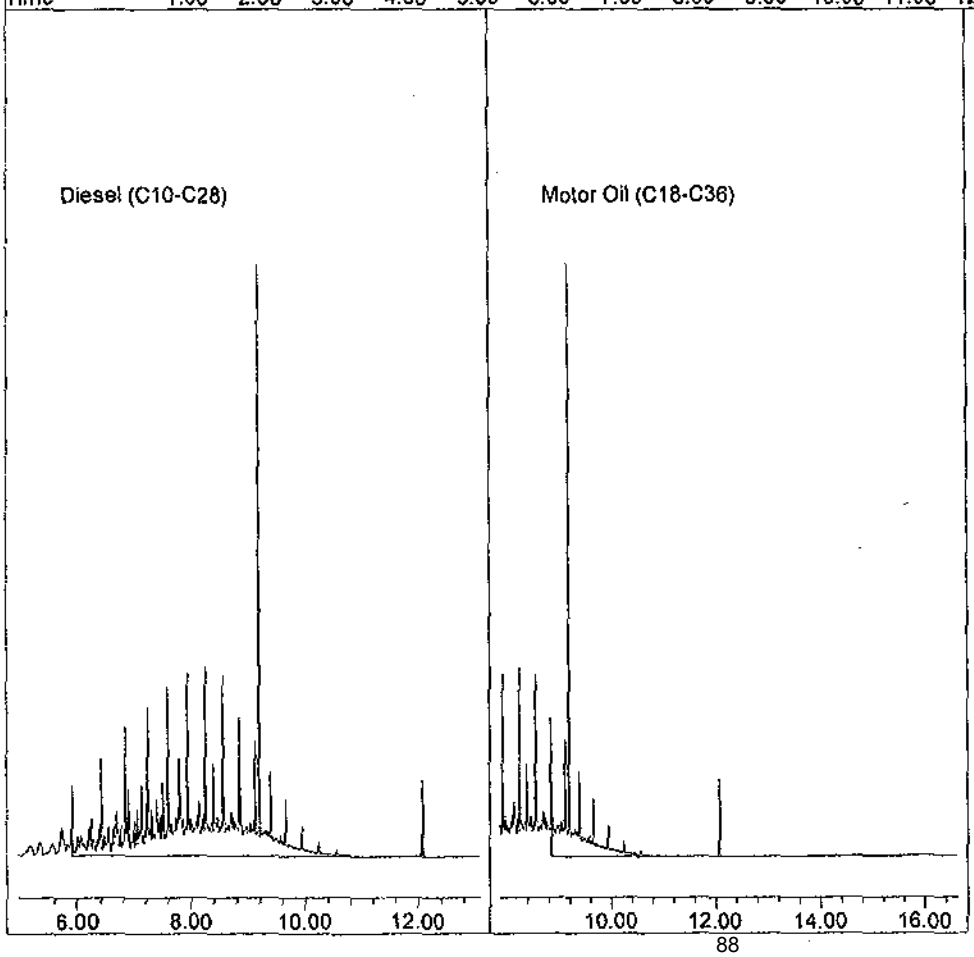
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

(f)=RT Delta > 1/2 Window (m)=manual int.

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





Quantitation Report (Not Reviewed)

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

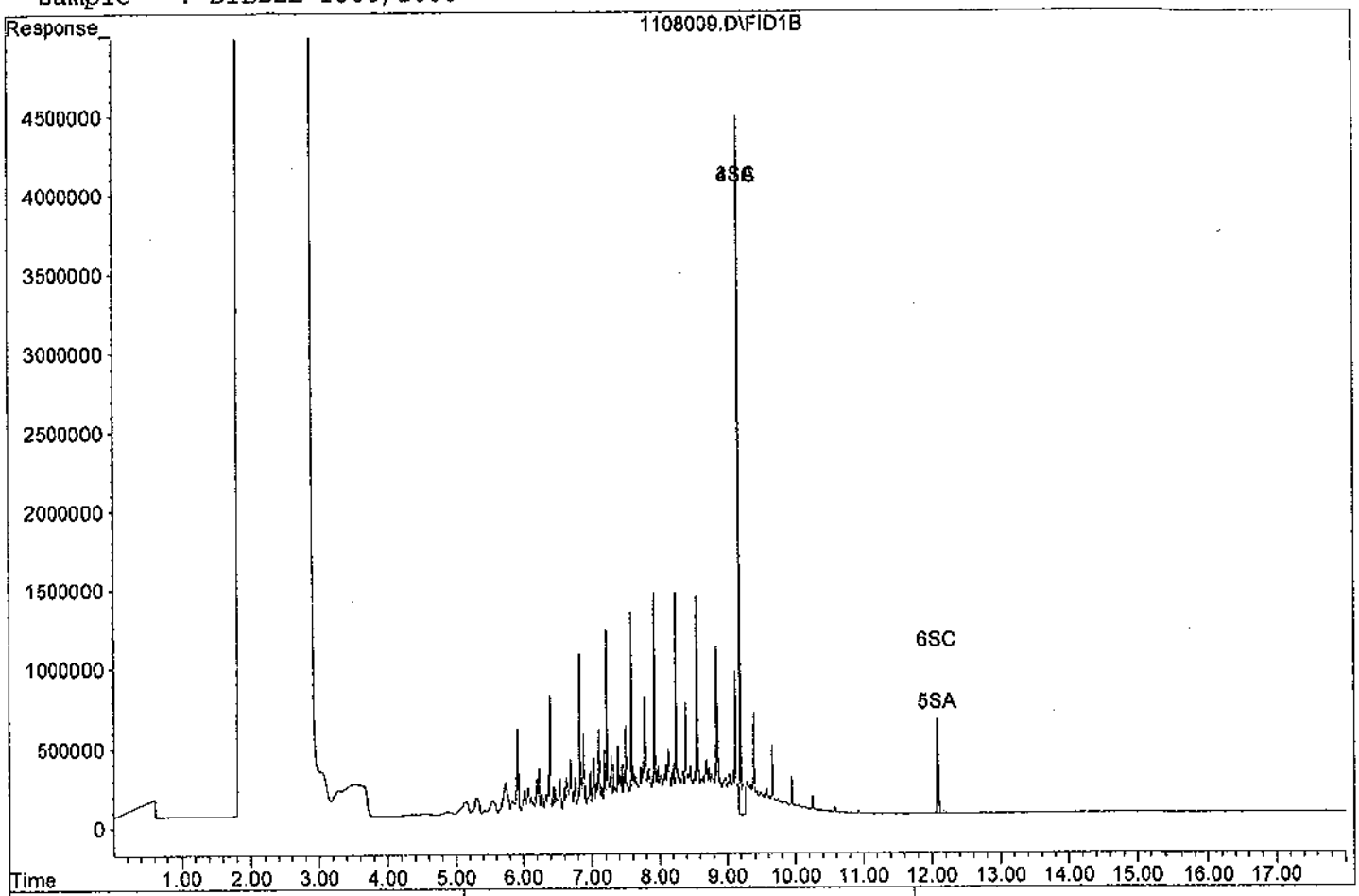
Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Nov 30 11:52:46 2011
Response via : Multiple Level Calibration

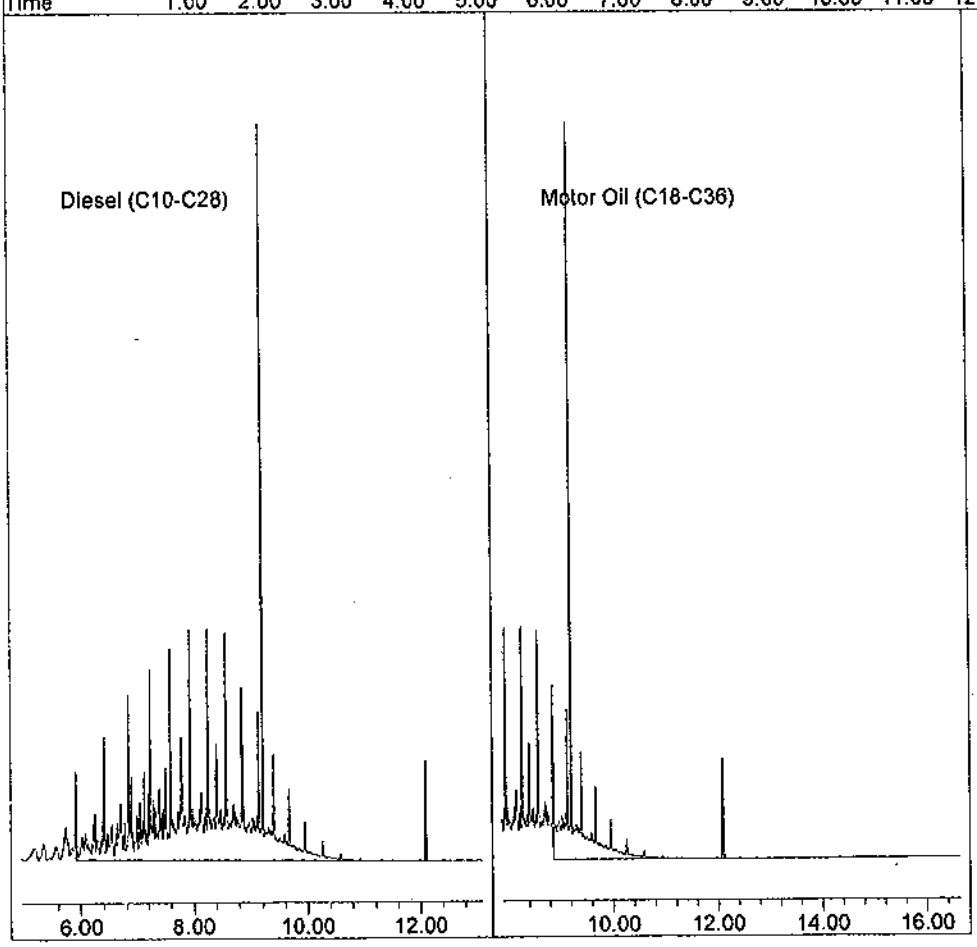
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\111108\1108009.D
Sample : DIESEL 1000/1000





Quantitation Report (Not Reviewed)

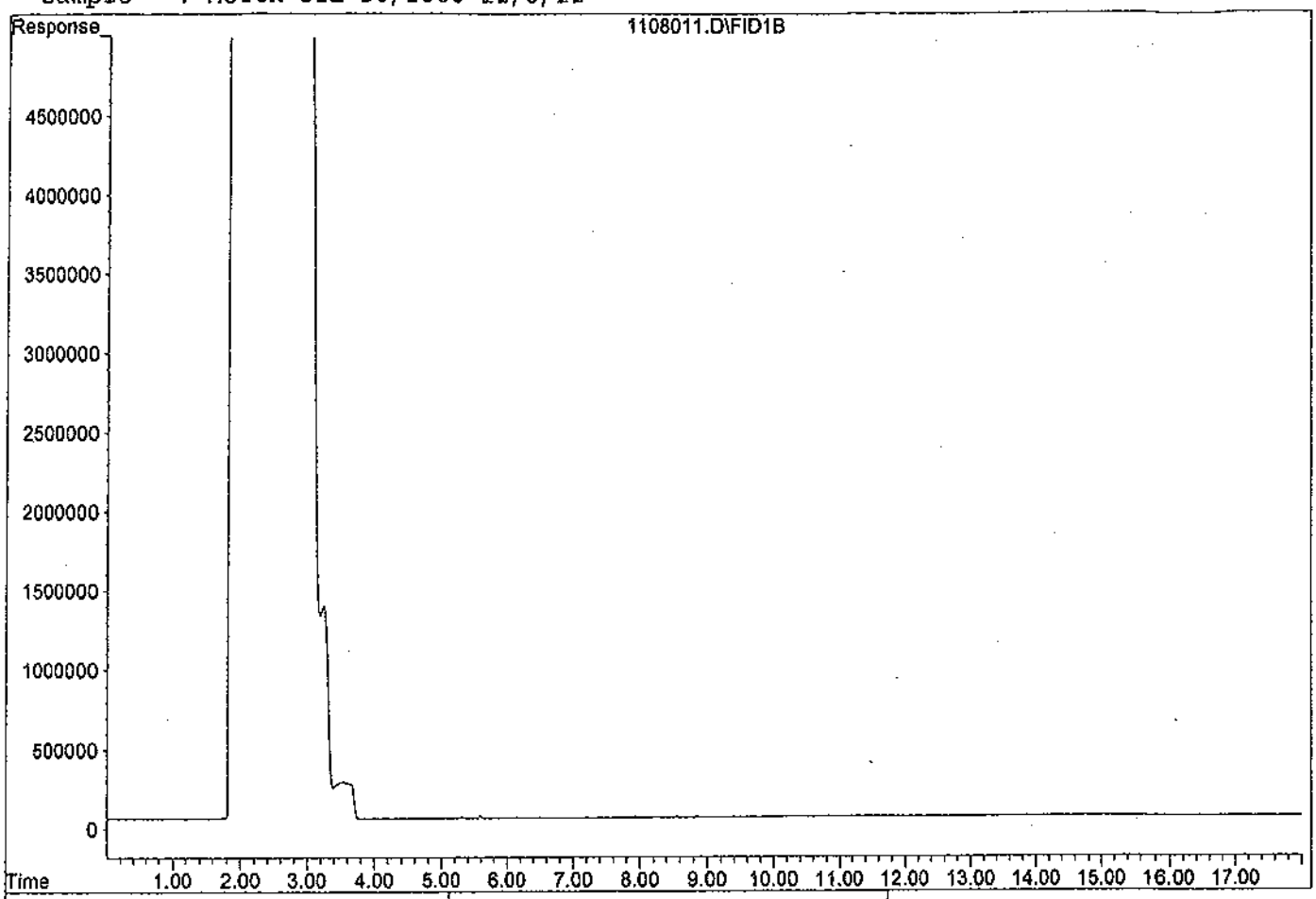
Data File : G:\APOLLO\DATA\111108\1108011.D Vial: 11
Acq On : 11-8-11 18:12:45 Operator: LAC
Sample : MOTOR OIL 50/1000 11/8/11 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

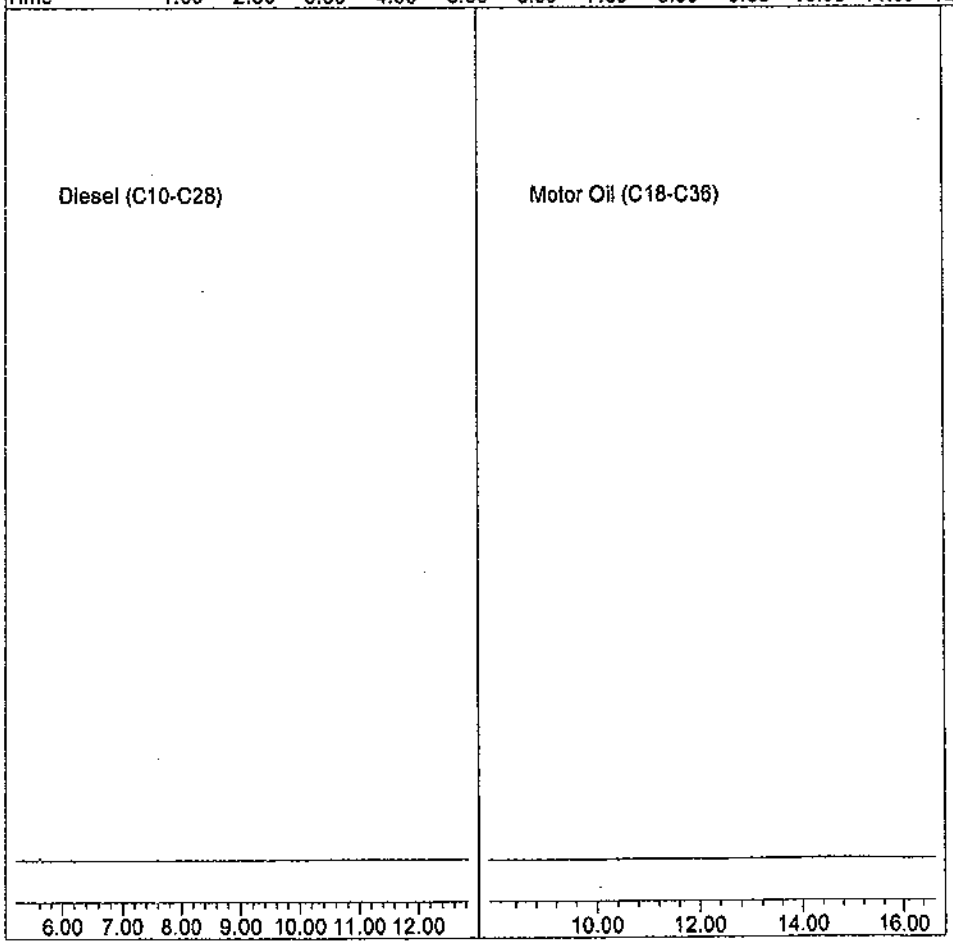
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

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





Quantitation Report (Not Reviewed)

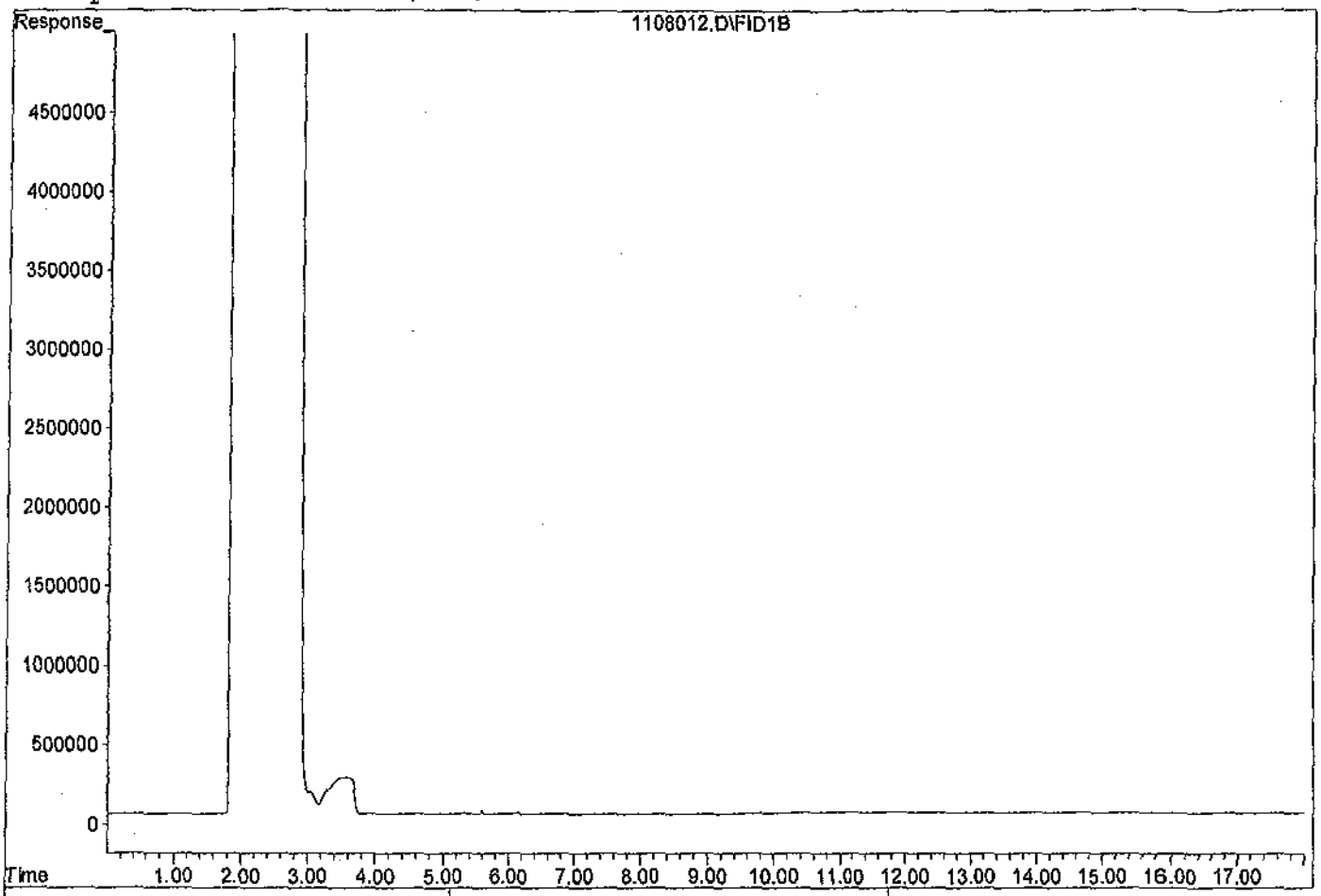
Data File : G:\APOLLO\DATA\111108\1108012.D Vial: 12
Acq On : 11-8-11 18:36:14 Operator: LAC
Sample : MOTOR OIL 100/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

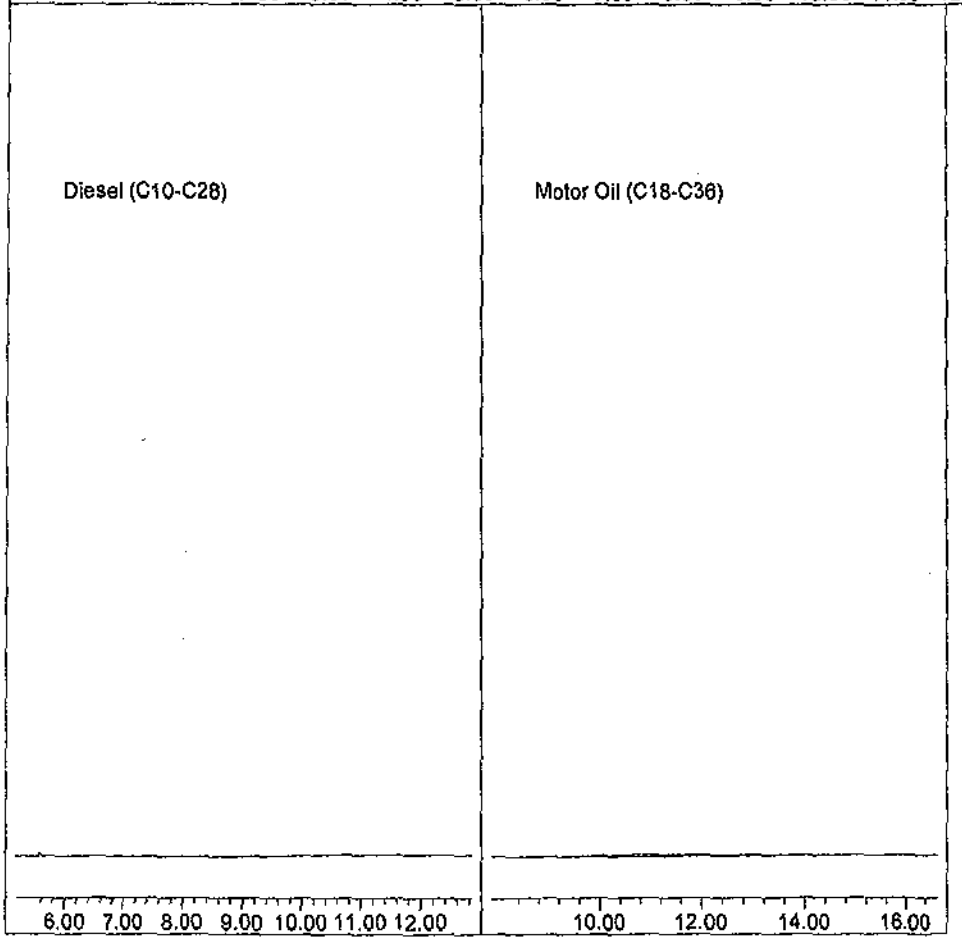
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.24	19926419	239.903 ppb

Data File: G:\APOLLO\DATA\111108\1108012.D
Sample : MOTOR OIL 100/1000





Quantitation Report (Not Reviewed)

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

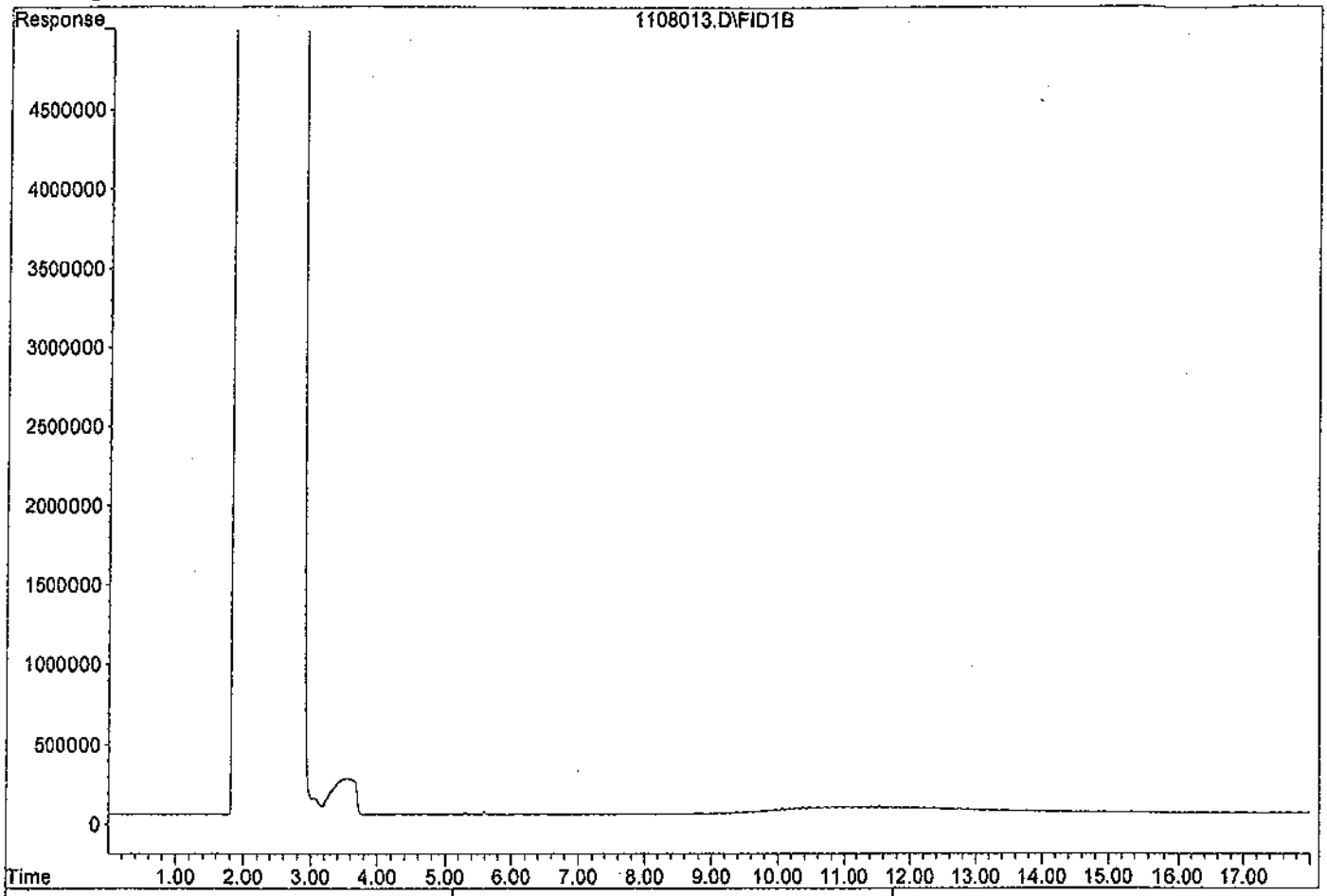
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

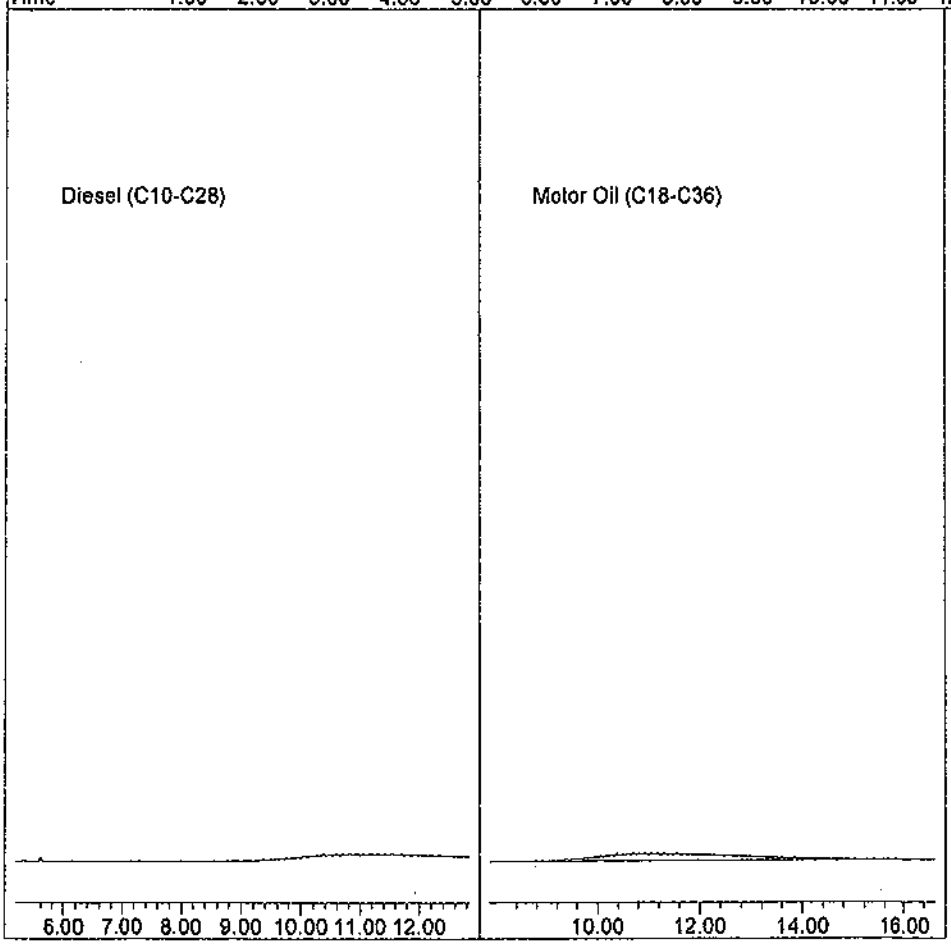
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
Target Compounds				
2) HBTM Motor Oil (C18-C36)	12.24	83351892	1003.512	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108013.D
Sample : MOTOR OIL 400/1000





Quantitation Report (Not Reviewed)

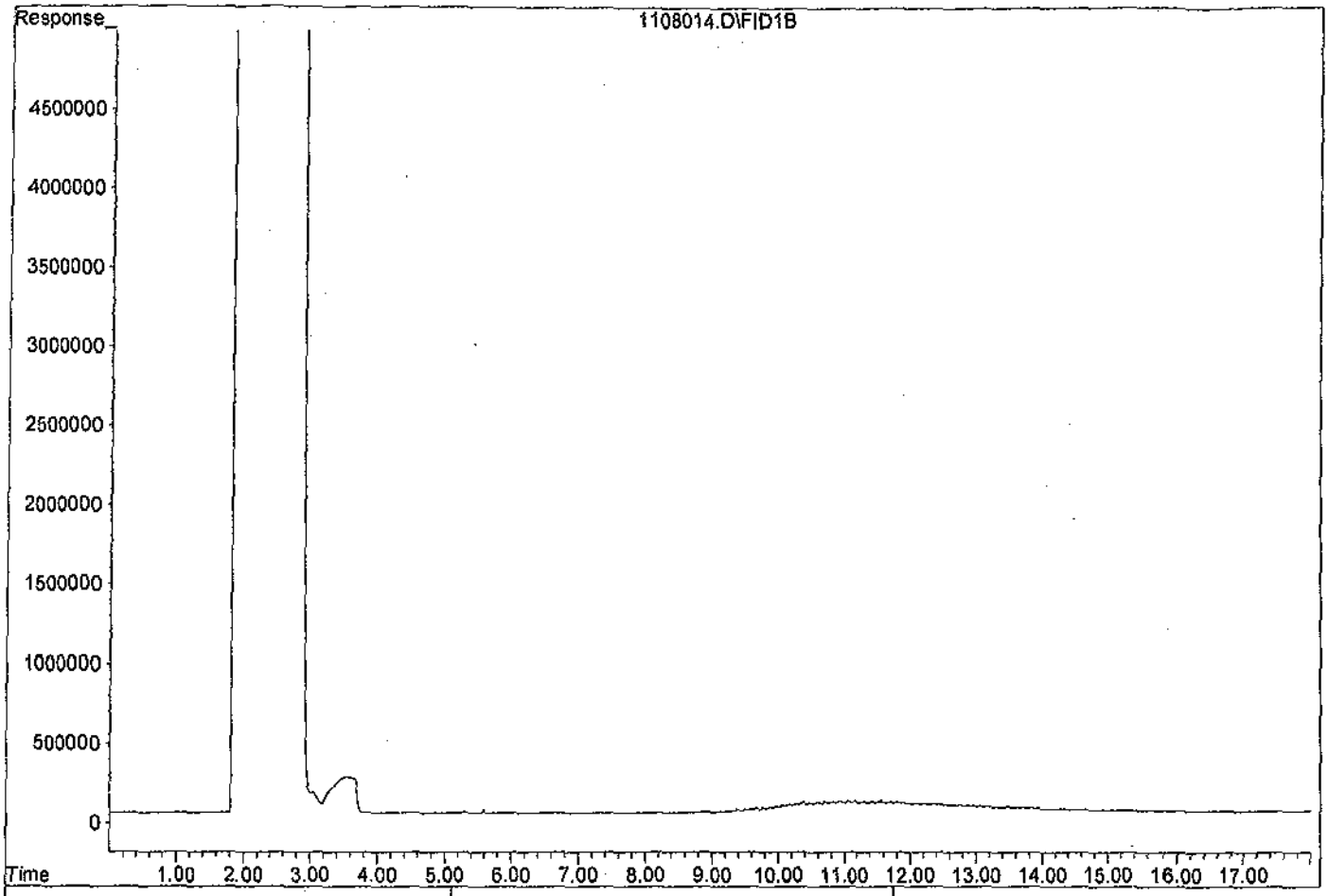
Data File : G:\APOLLO\DATA\111108\1108014.D Vial: 14
Acq On : 11-8-11 19:23:20 Operator: LAC
Sample : MOTOR OIL 600/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 9:54 2011 Quant Results File: TPH8S15.RES

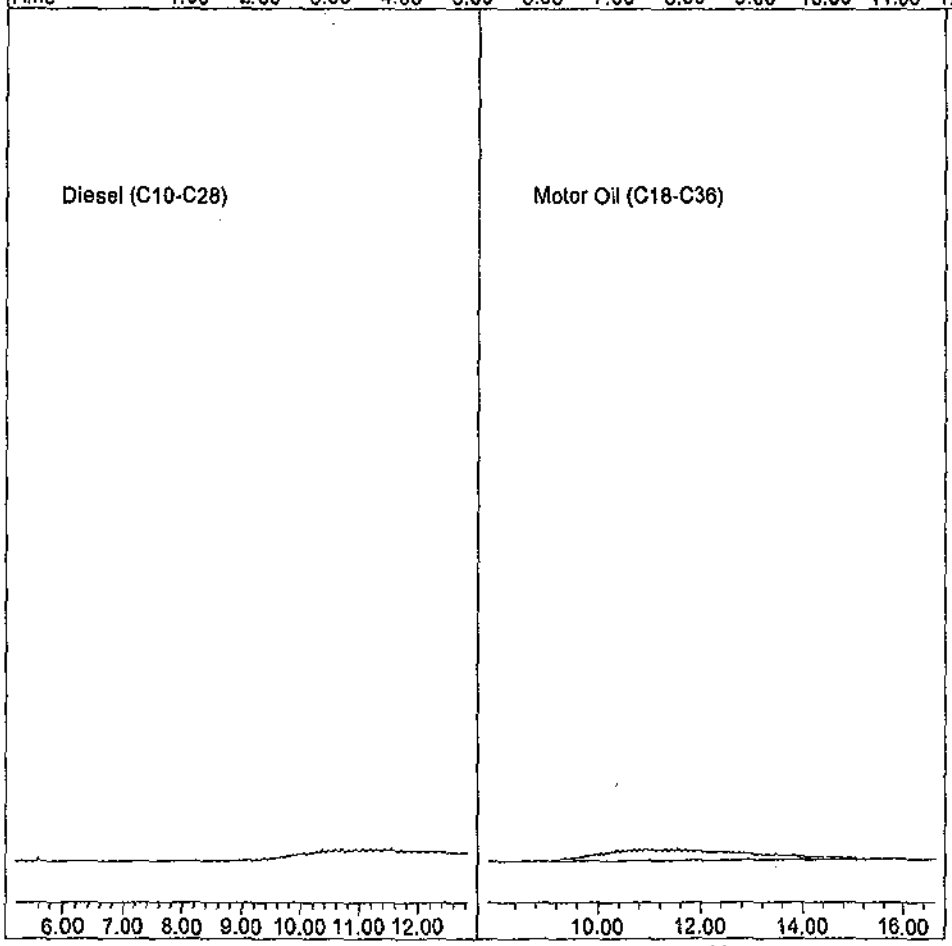
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
Target Compounds				
2) HBTM Motor Oil (C18-C36)	12.24	133423372	1606.346	ppb

Data File: G:\APOLLO\DATA\111108\1108014.D
Sample : MOTOR OIL 600/1000





Quantitation Report (Not Reviewed)

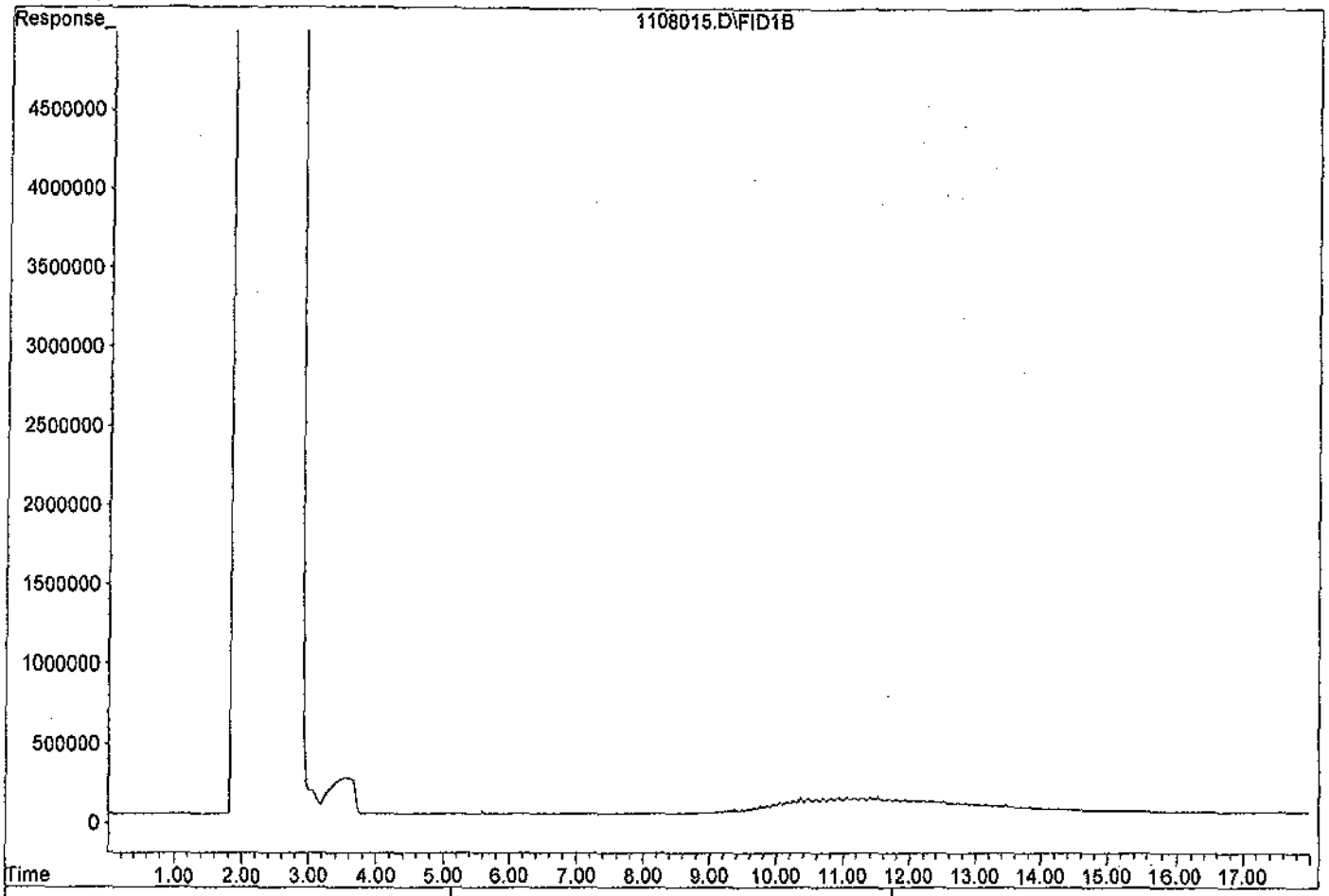
Data File : G:\APOLLO\DATA\111108\1108015.D Vial: 15
Acq On : 11-8-11 19:46:53 Operator: LAC
Sample : MOTOR OIL 800/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 9:54 2011 Quant Results File: TPH8S15.RES

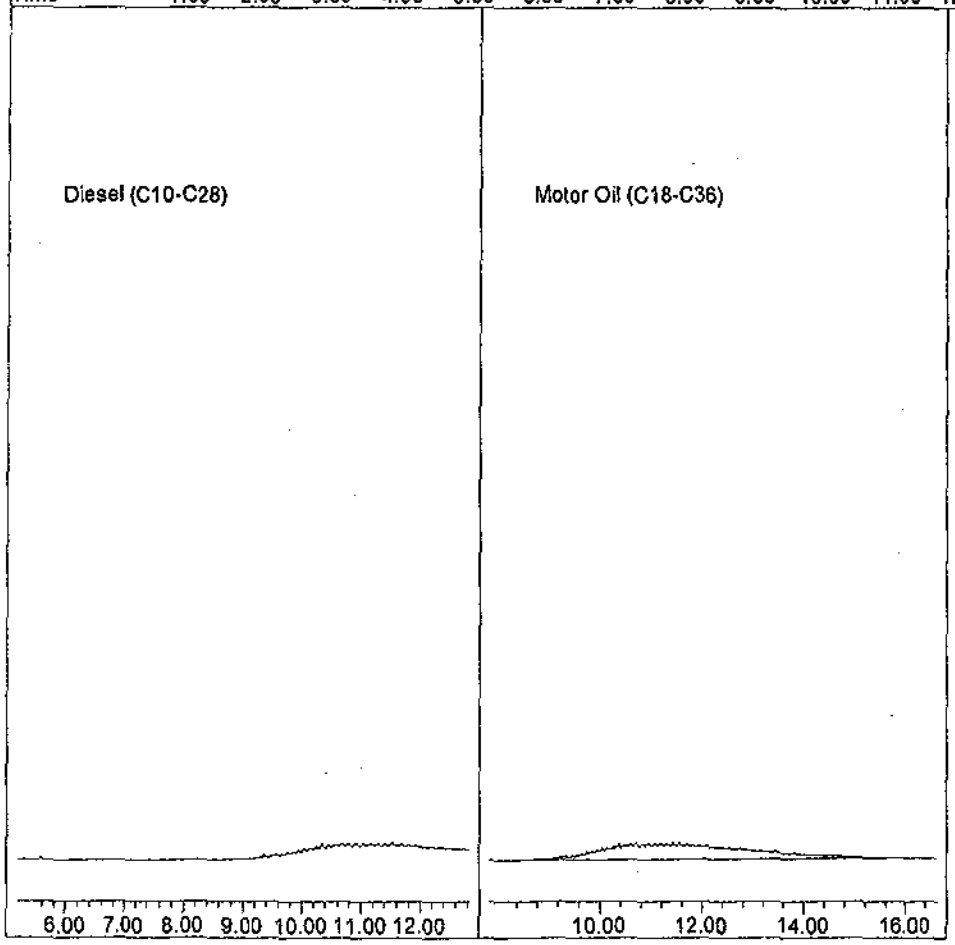
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
Target Compounds				
2) HBTM Motor Oil (C18-C36)	12.24	185280557	2230.679	ppb

Data File: G:\APOLLO\DATA\111108\1108015.D
Sample : MOTOR OIL 800/1000





Quantitation Report (Not Reviewed)

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

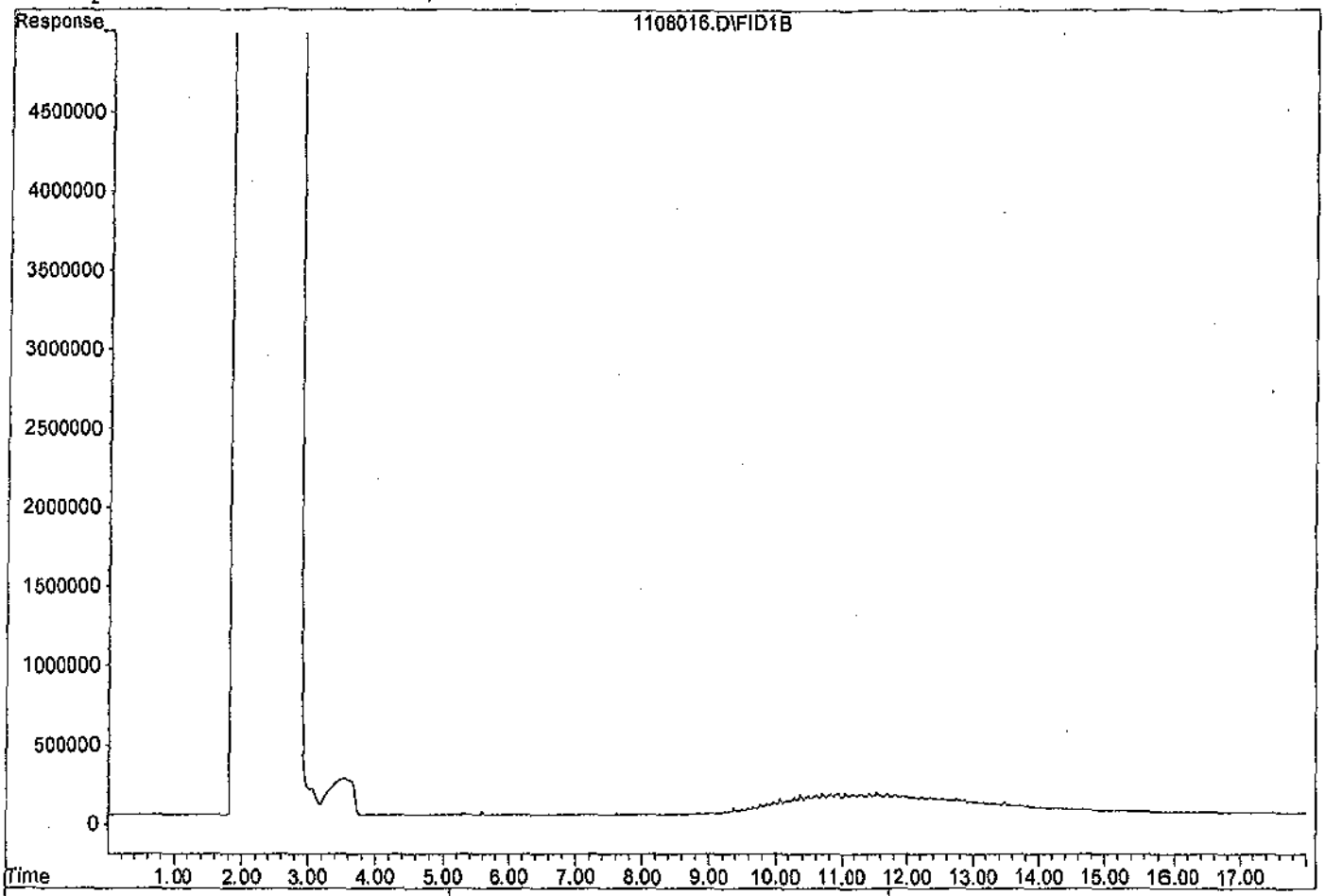
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

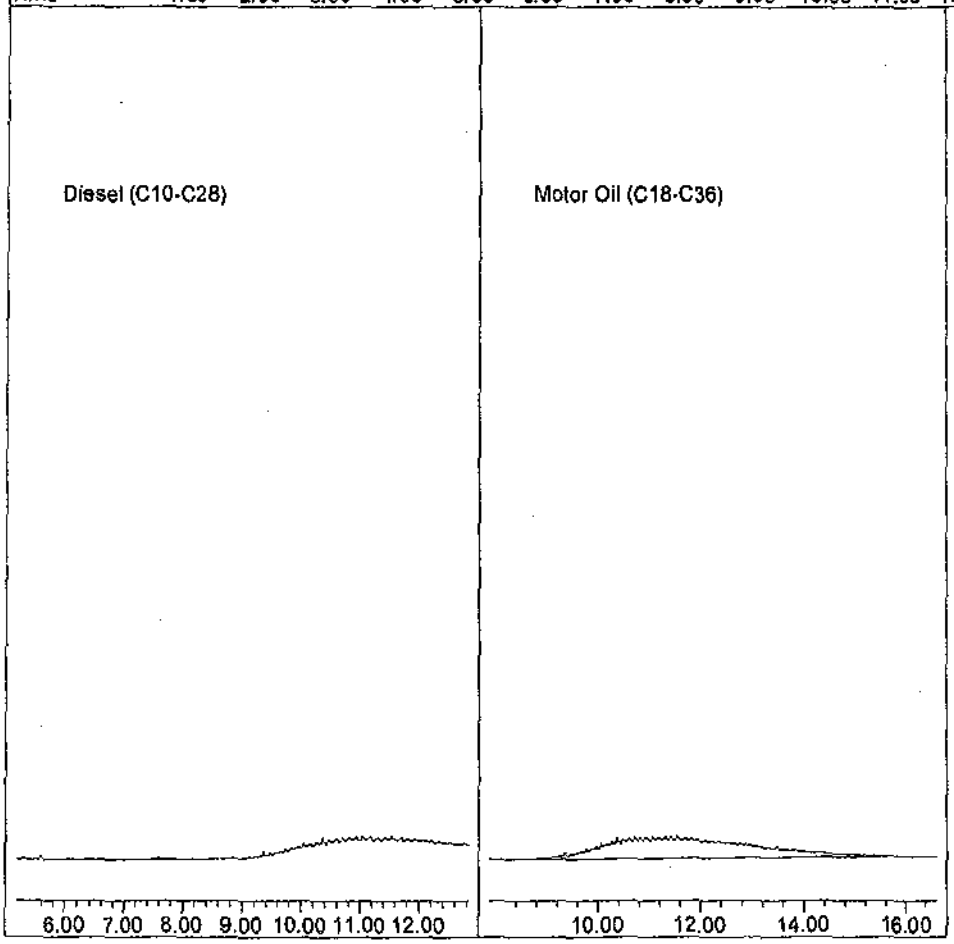
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
Target Compounds				
2) HBTM Motor Oil (C18-C36)	12.24	250746792	3018.857	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\111108\1108016.D
Sample : MOTOR OIL 1000/1000





Quantitation Report (Not Reviewed)

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

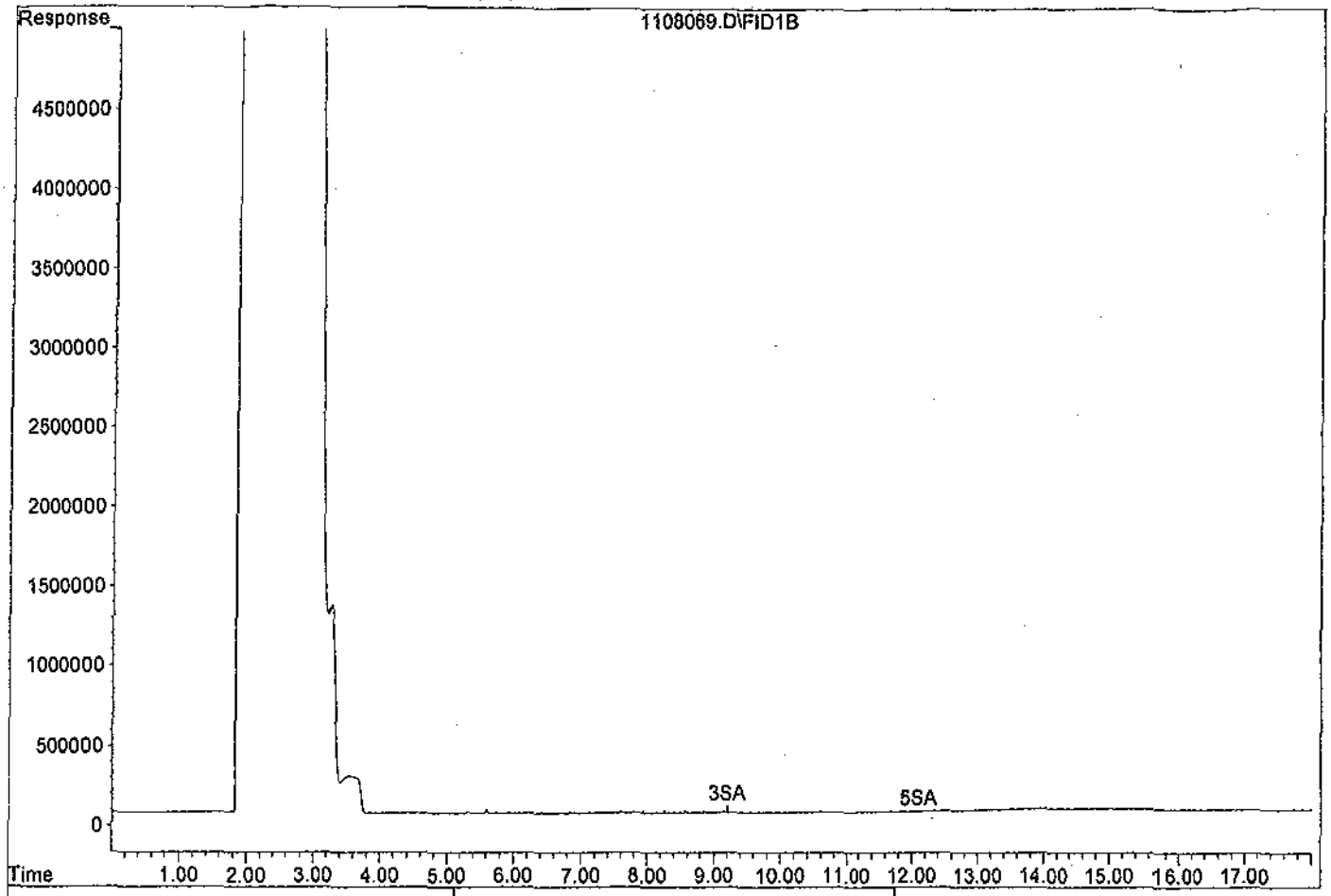
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

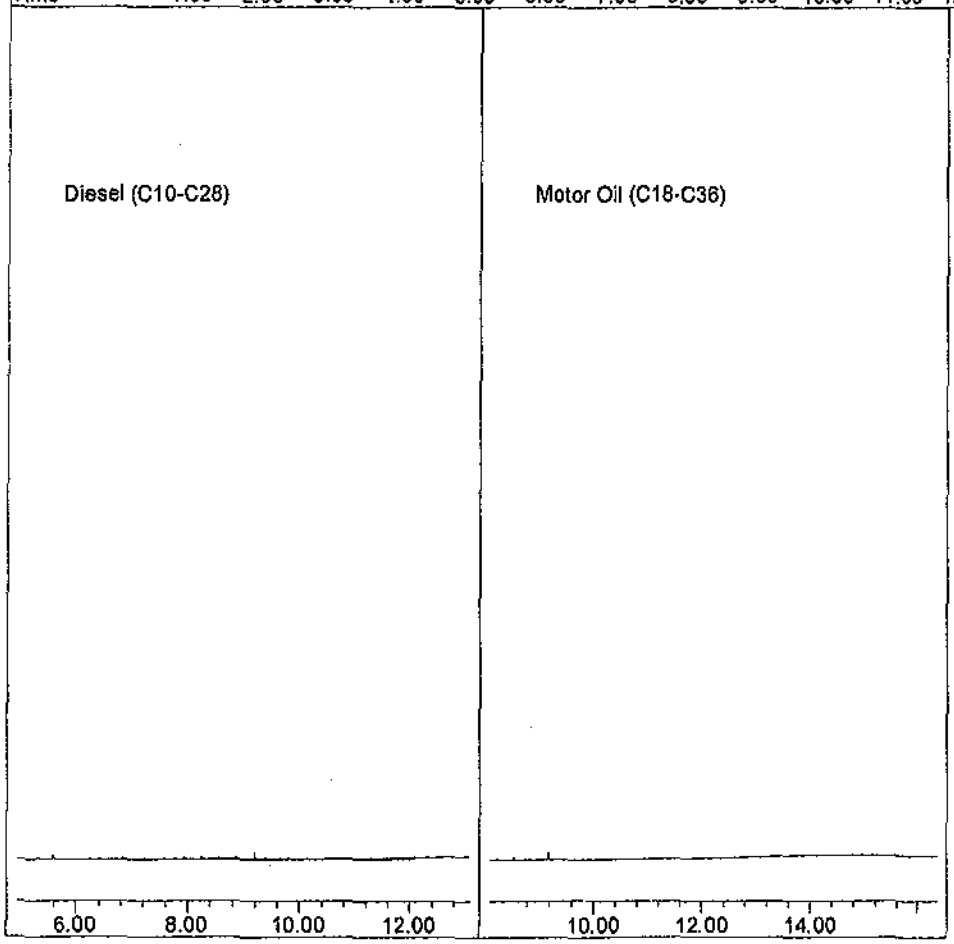
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108069.D
Sample : DIESEL 10/1000 11/8/11





Quantitation Report (Not Reviewed)

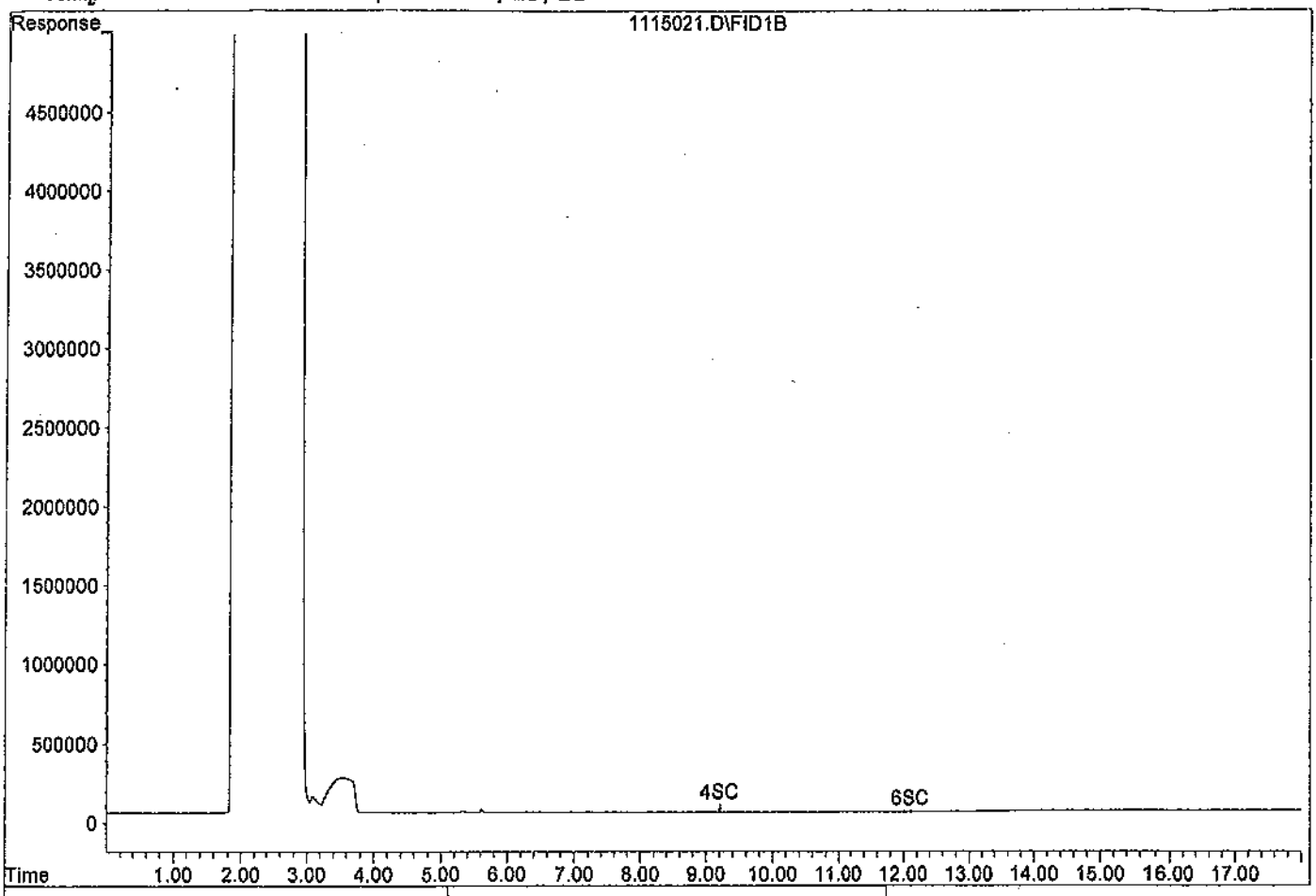
Data File : G:\APOLLO\DATA\111115\1115021.D Vial: 21
Acq On : 11-15-11 18:21:35 Operator: LAC
Sample : THC SURR 10/1000 11/15/11 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

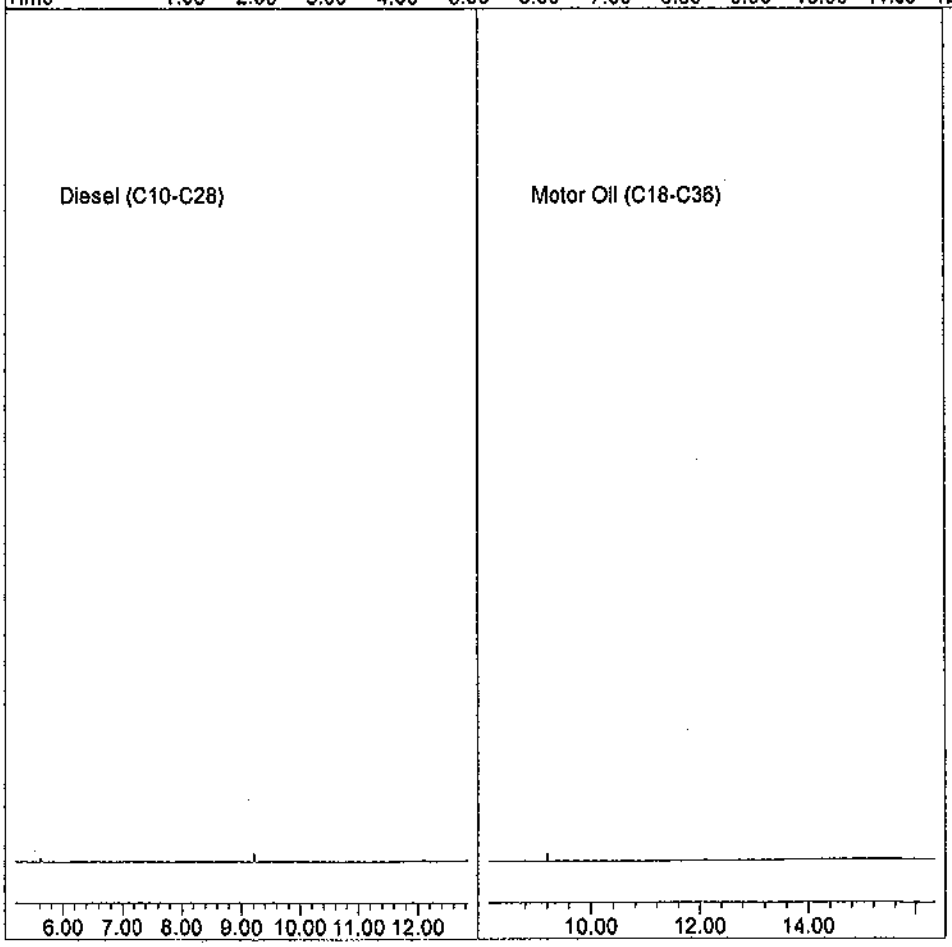
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

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





Quantitation Report (Not Reviewed)

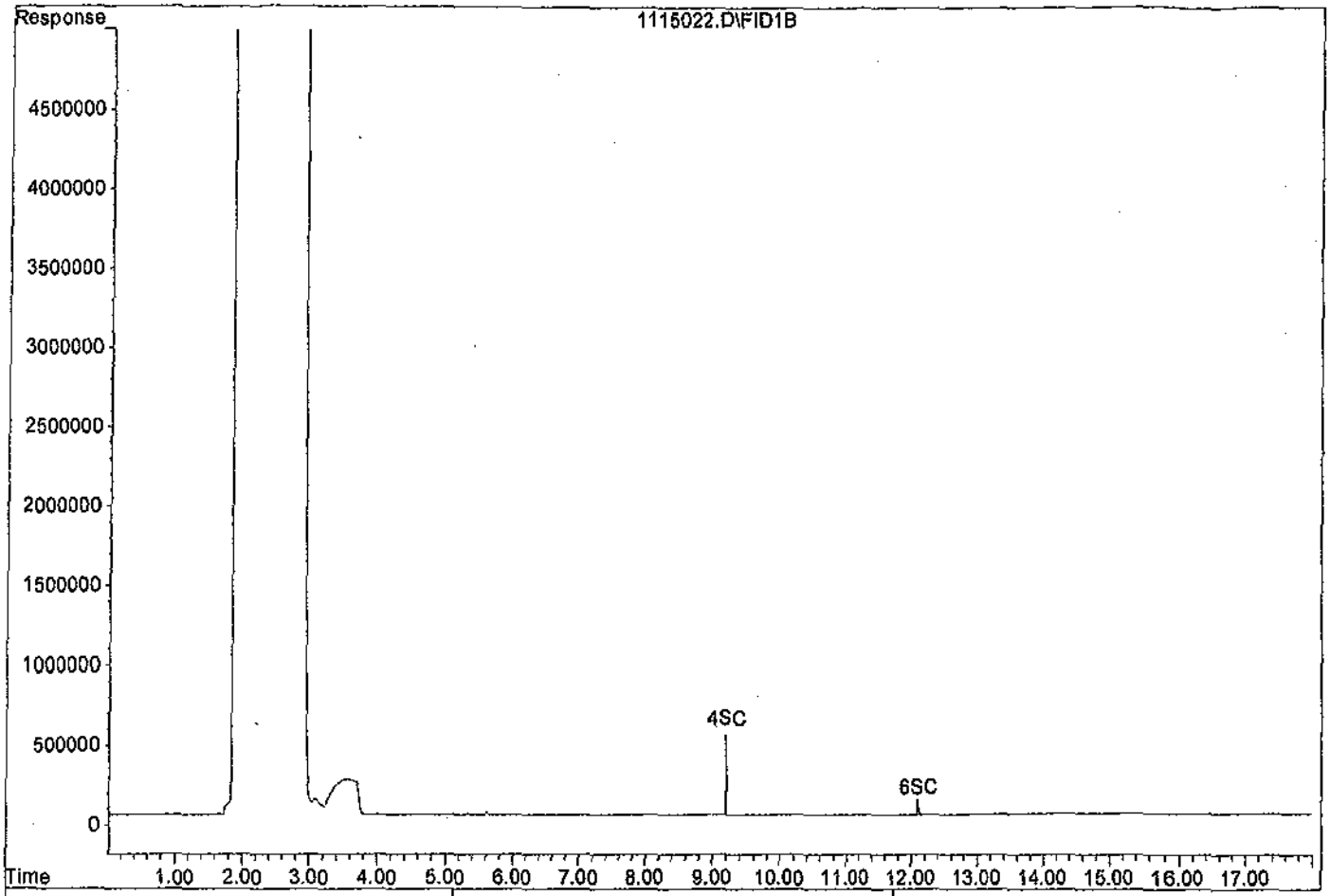
Data File : G:\APOLLO\DATA\111115\1115022.D Vial: 22
Acq On : 11-15-11 18:45:31 Operator: LAC
Sample : THC SURR 100/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

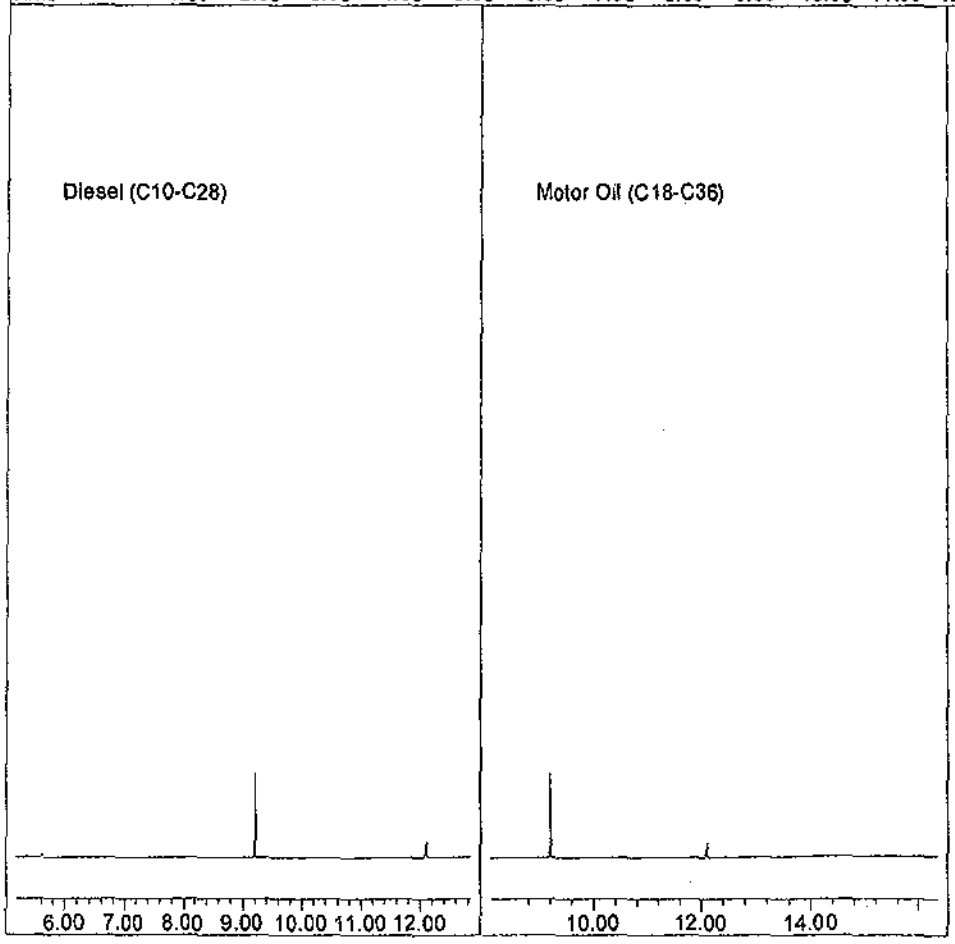
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

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





Quantitation Report (Not Reviewed)

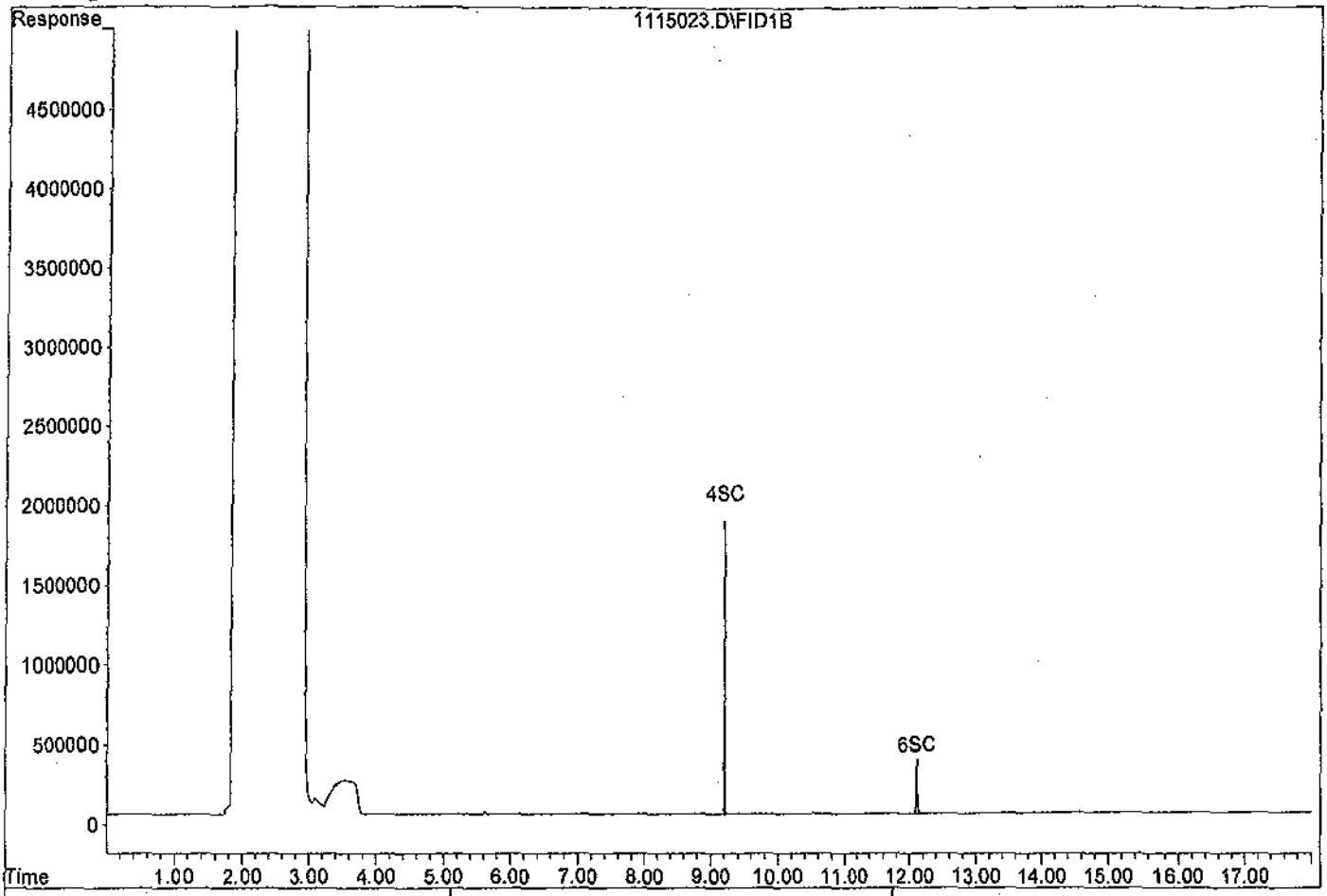
Data File : G:\APOLLO\DATA\111115\1115023.D Vial: 23
Acq On : 11-15-11 19:09:25 Operator: LAC
Sample : THC SURR 400/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

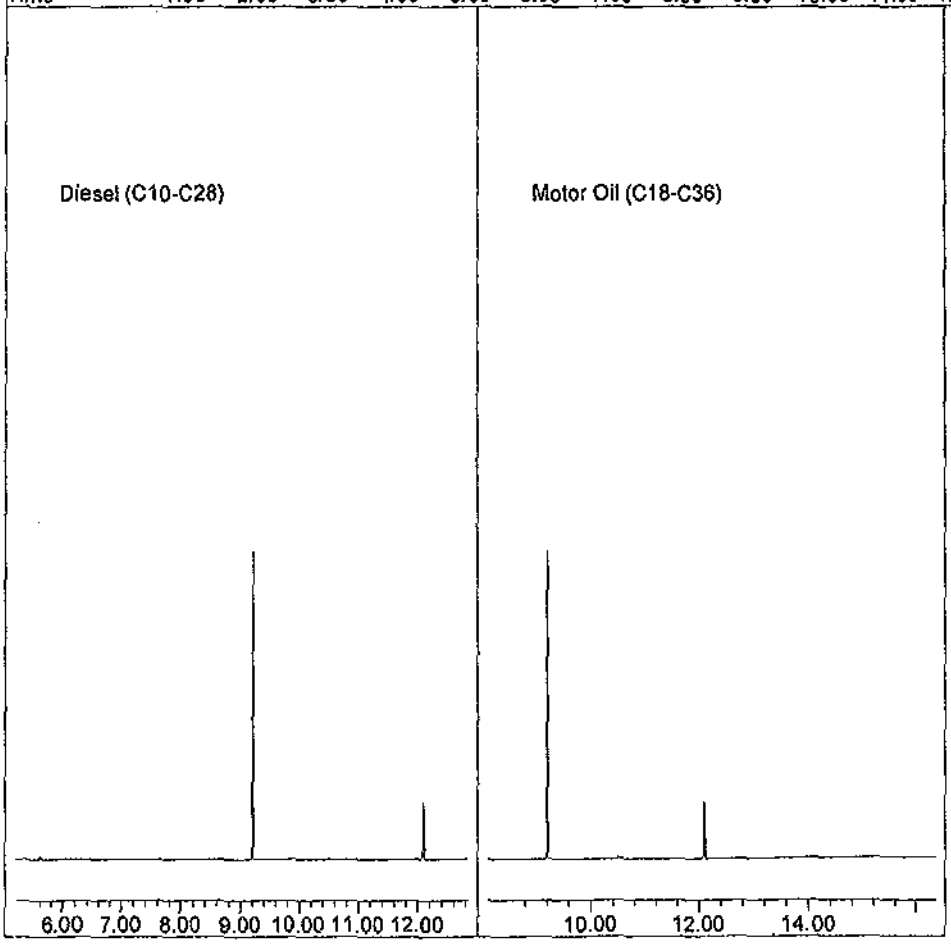
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

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





Quantitation Report (Not Reviewed)

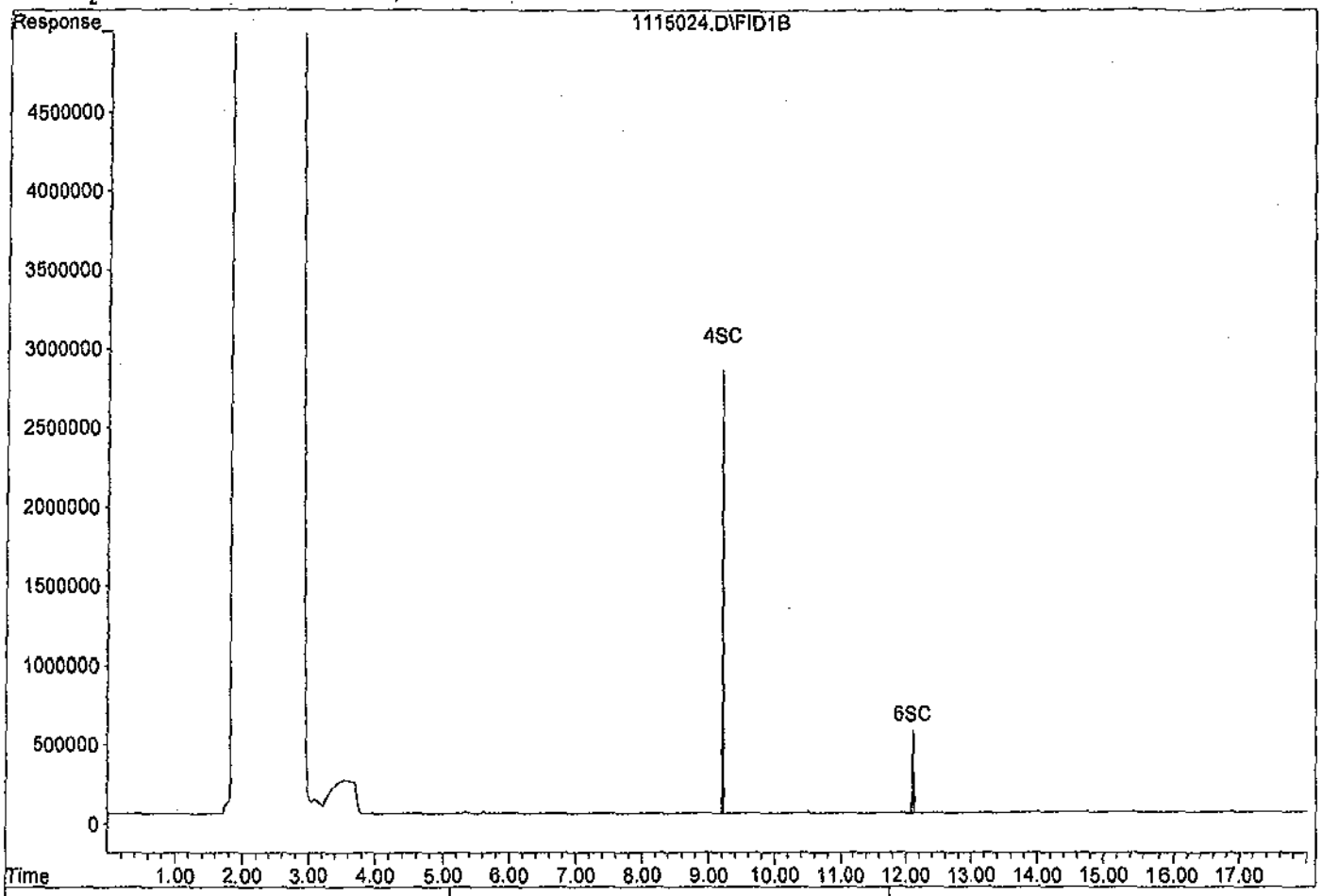
Data File : G:\APOLLO\DATA\111115\1115024.D Vial: 24
Acq On : 11-15-11 19:33:17 Operator: LAC
Sample : THC SURR 600/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

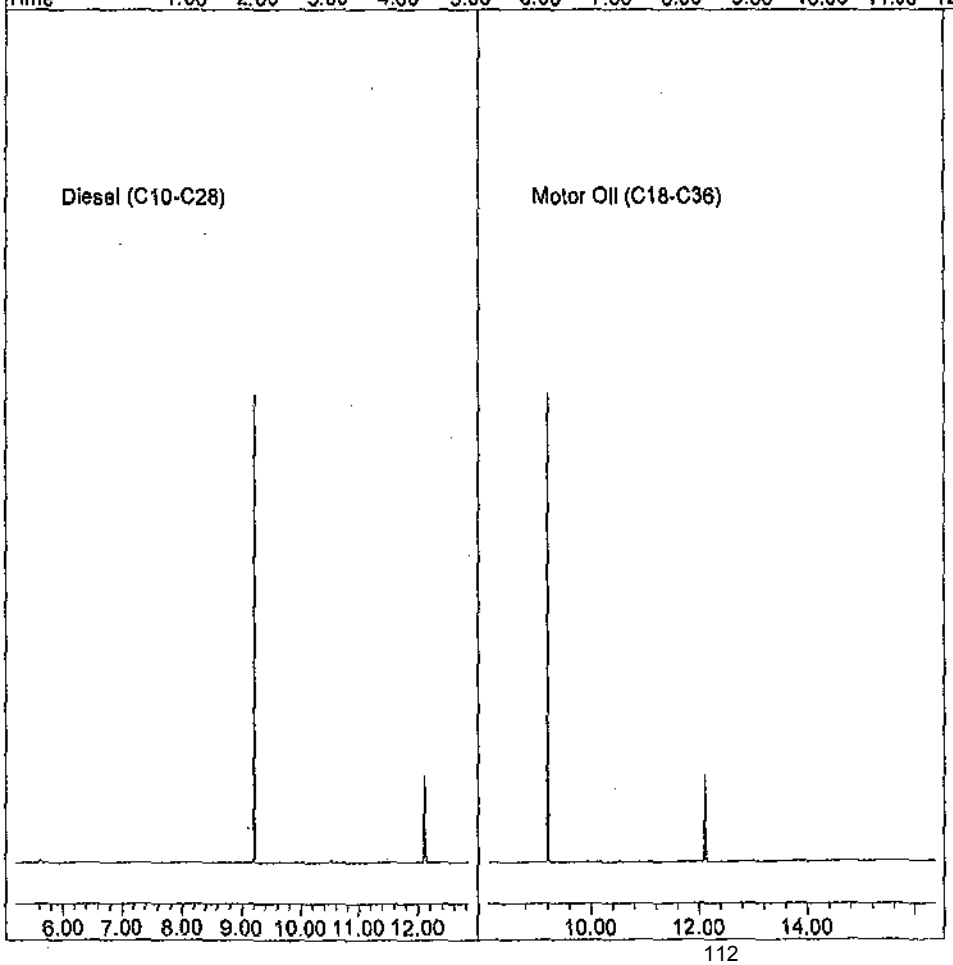
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

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





Quantitation Report (Not Reviewed)

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

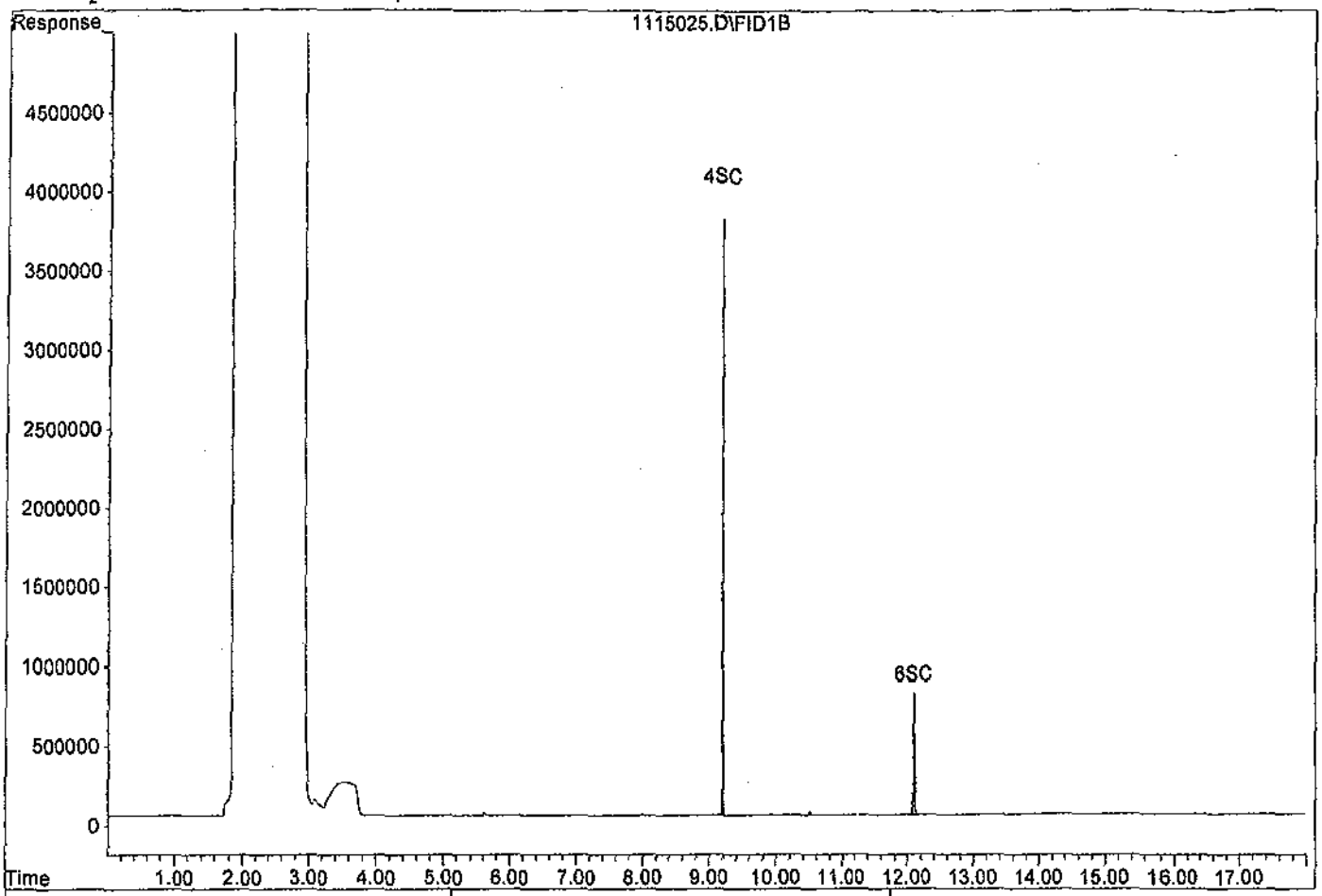
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

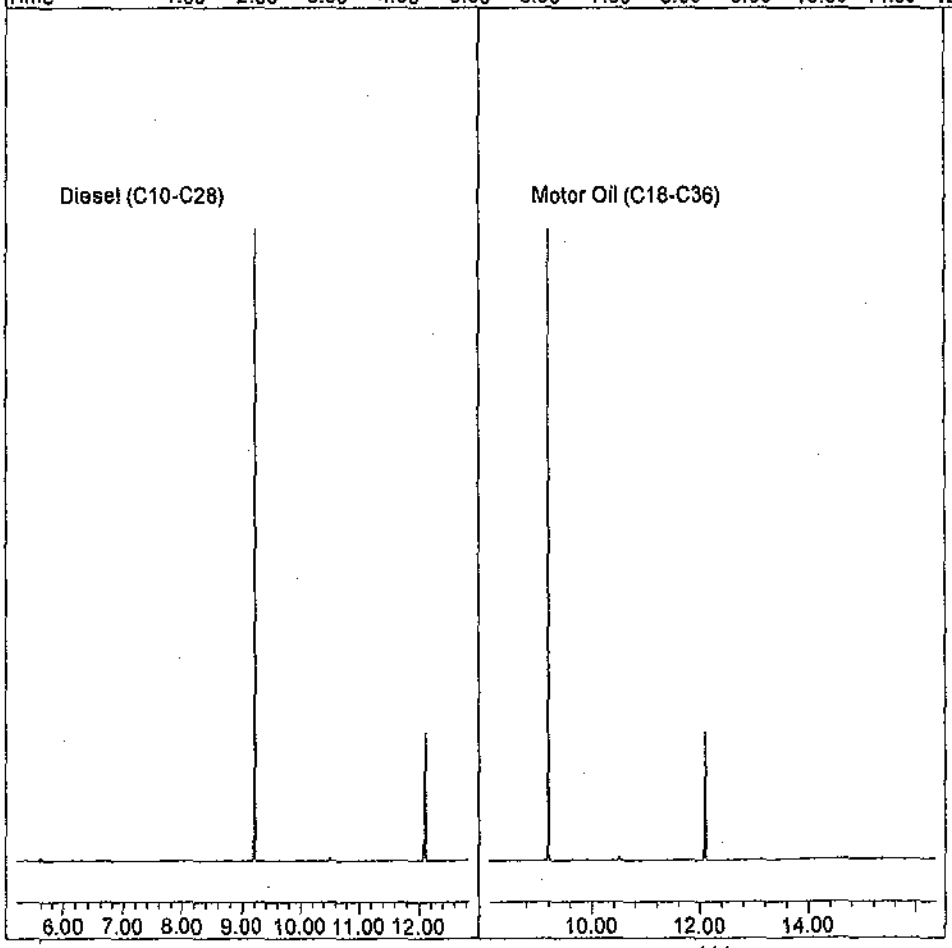
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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				

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\111115\1115025.D
Sample : THC SURR 800/1000





Quantitation Report (Not Reviewed)

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

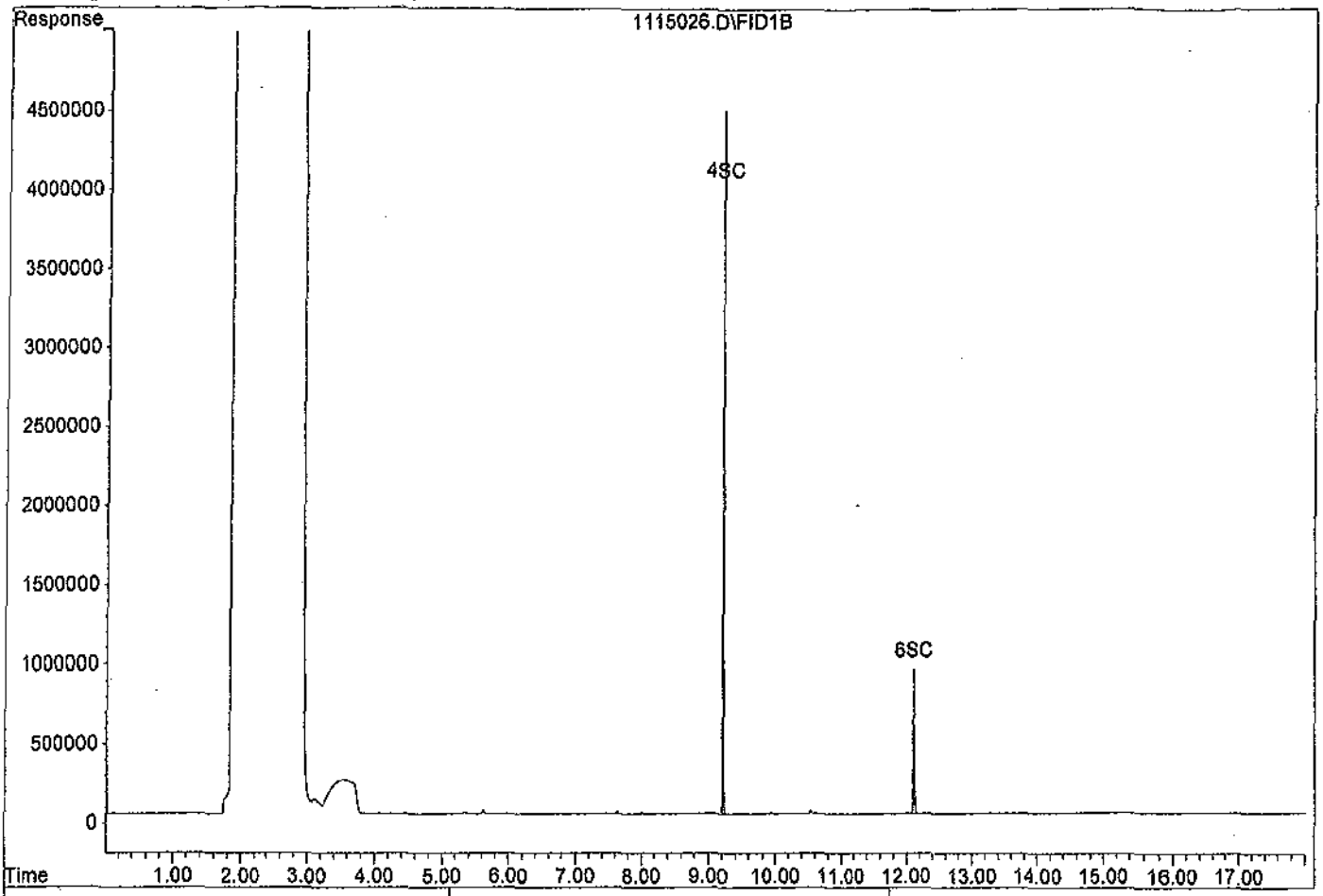
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

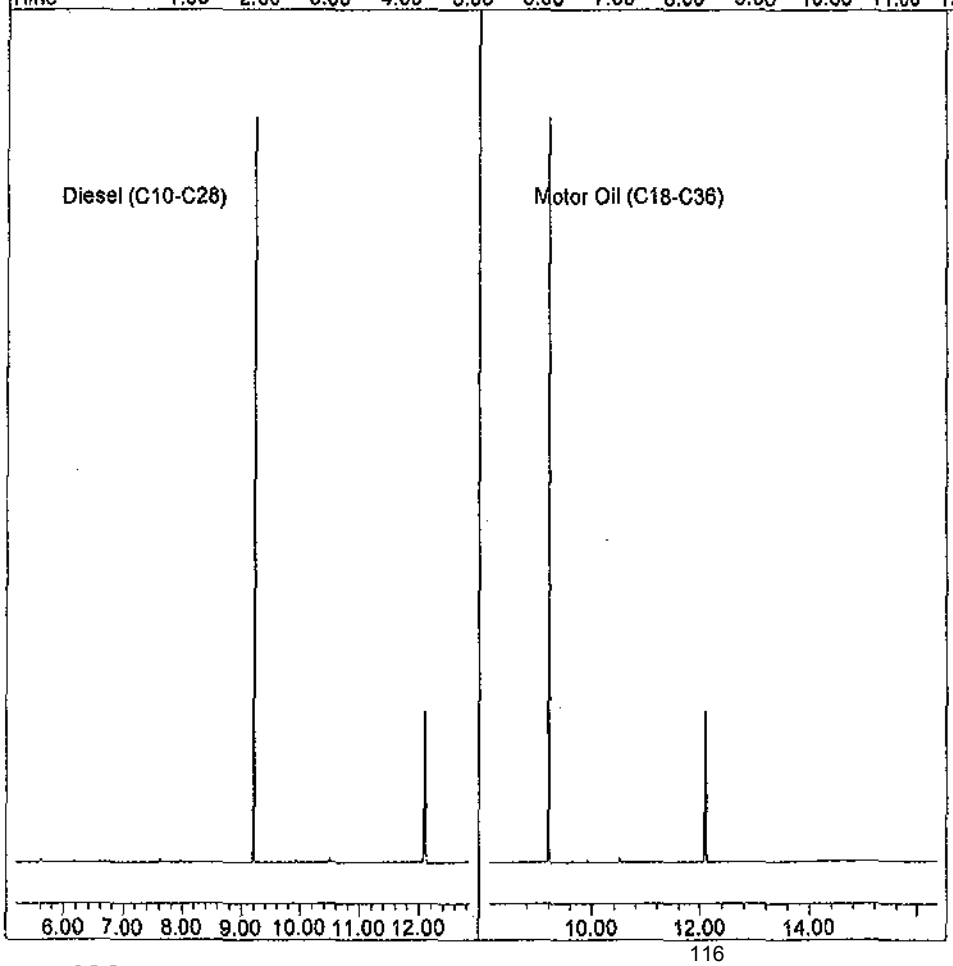
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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				

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File: G:\APOLLO\DATA\111115\1115026.D
Sample : THC SURR 1000/1000





Quantitation Report (Not Reviewed)

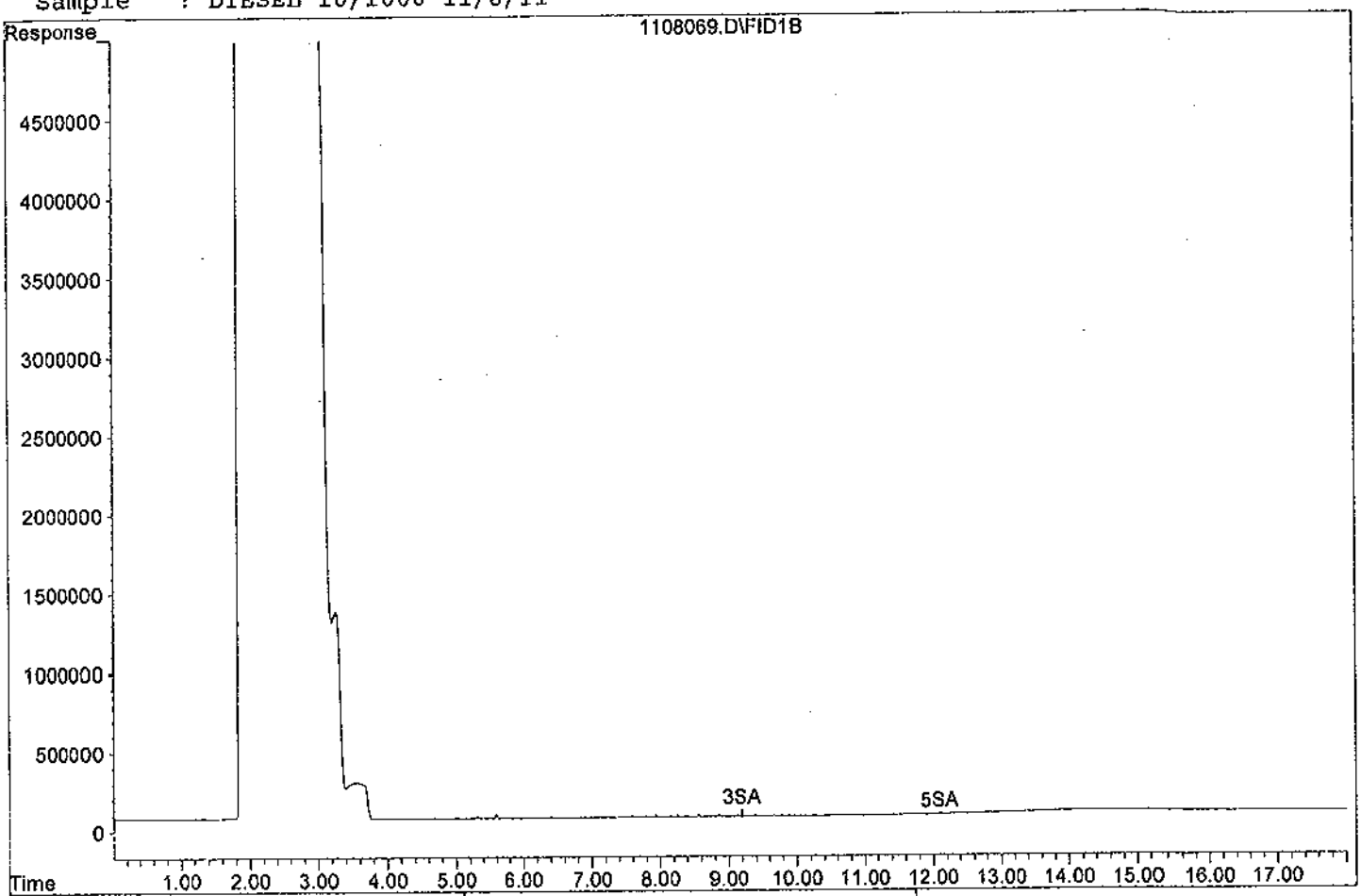
Data File : G:\APOLLO\DATA\111108\1108069.D Vial: 69
Acq On : 11-9-11 17:18:58 Operator: LAC
Sample : DIESEL 10/1000 11/8/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

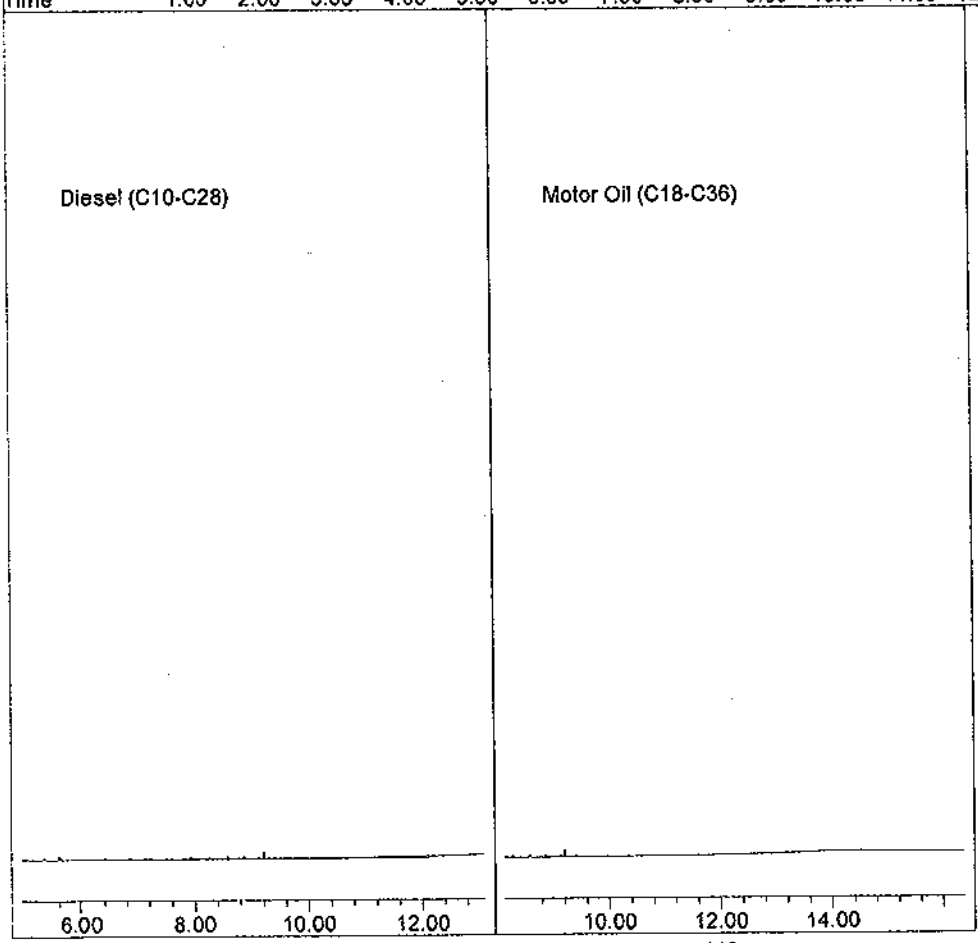
Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Nov 16 09:55:03 2011
Response via : Multiple Level Calibration

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





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		

Quantitation Report (Not Reviewed)

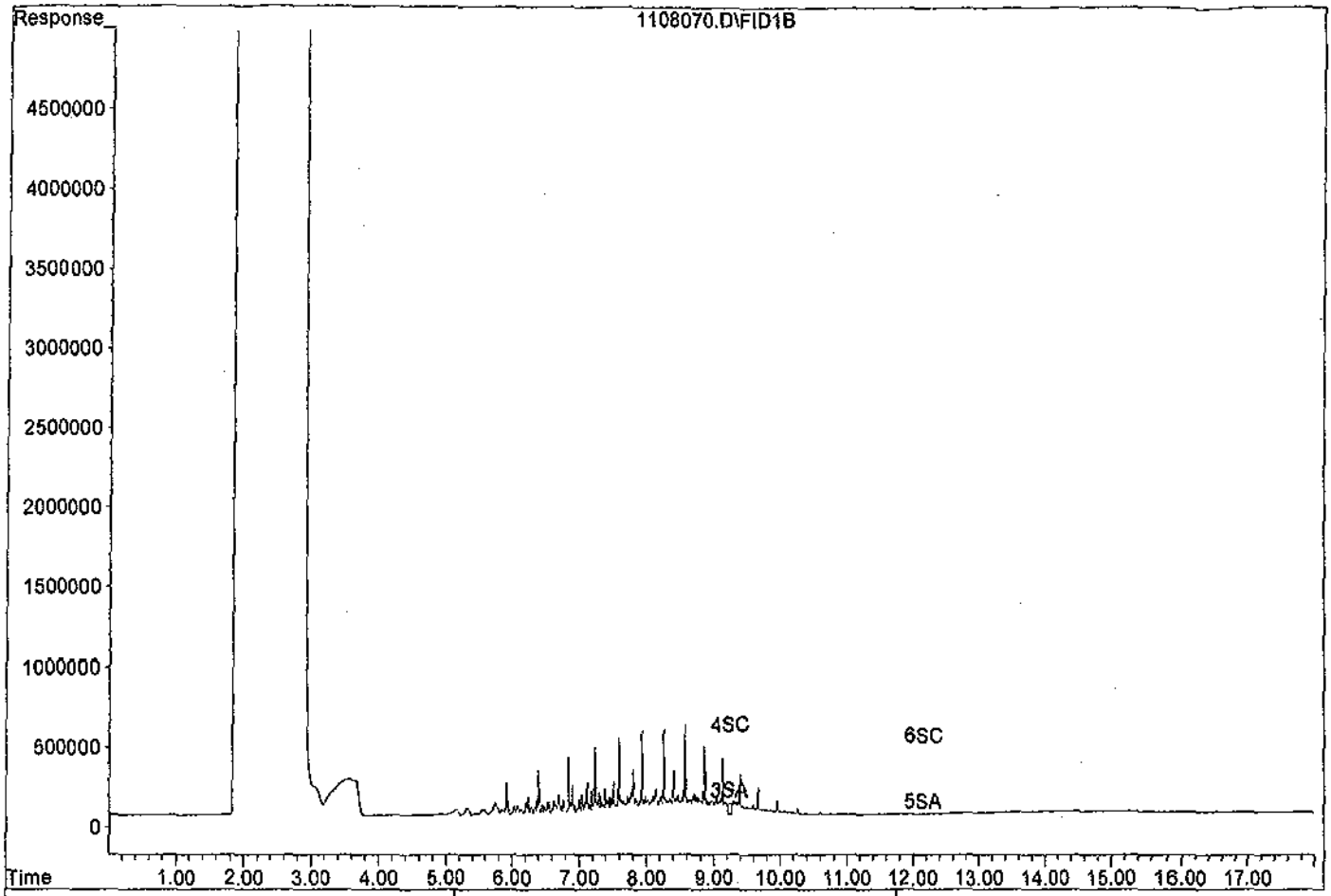
Data File : G:\APOLLO\DATA\111108\1108070.D Vial: 70
Acq On : 11-9-11 17:42:38 Operator: LAC
Sample : DIESEL 400 2ND SRC 11/8/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 9:52 2011 Quant Results File: TPH8S15.RES

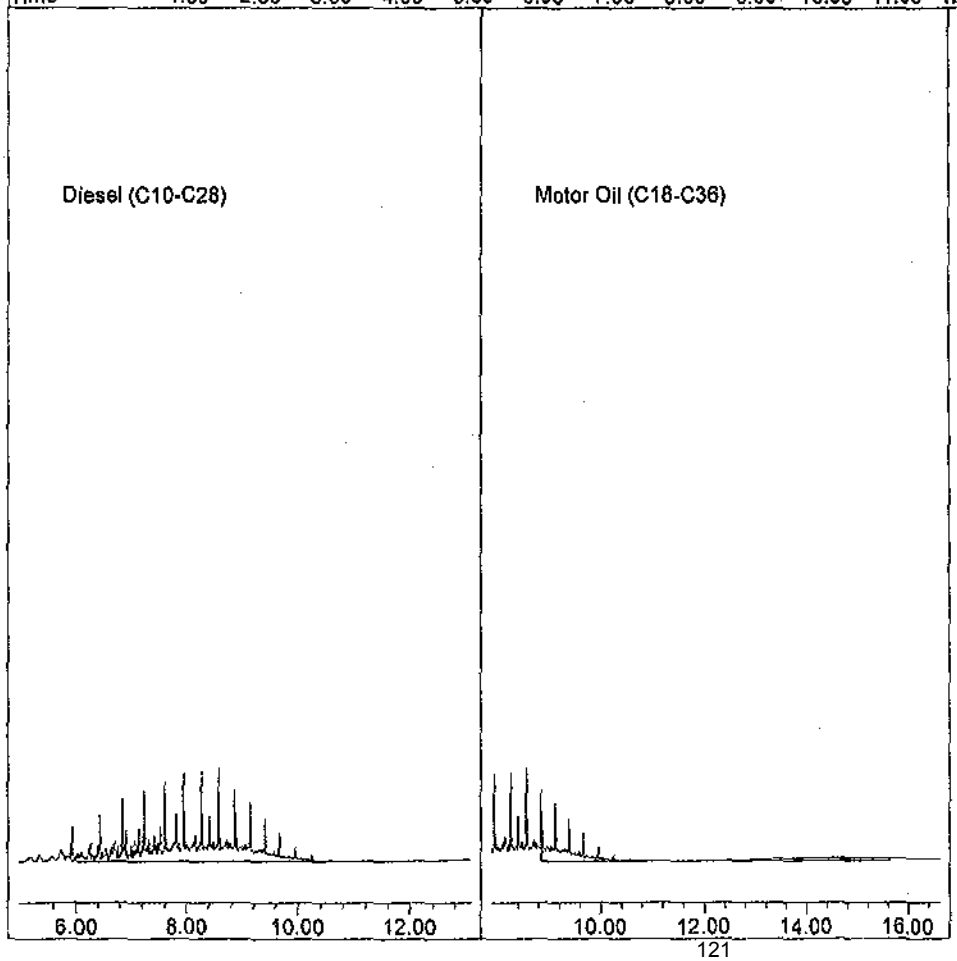
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

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

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: 66116
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							
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			13.0		

Quantitation Report (Not Reviewed)

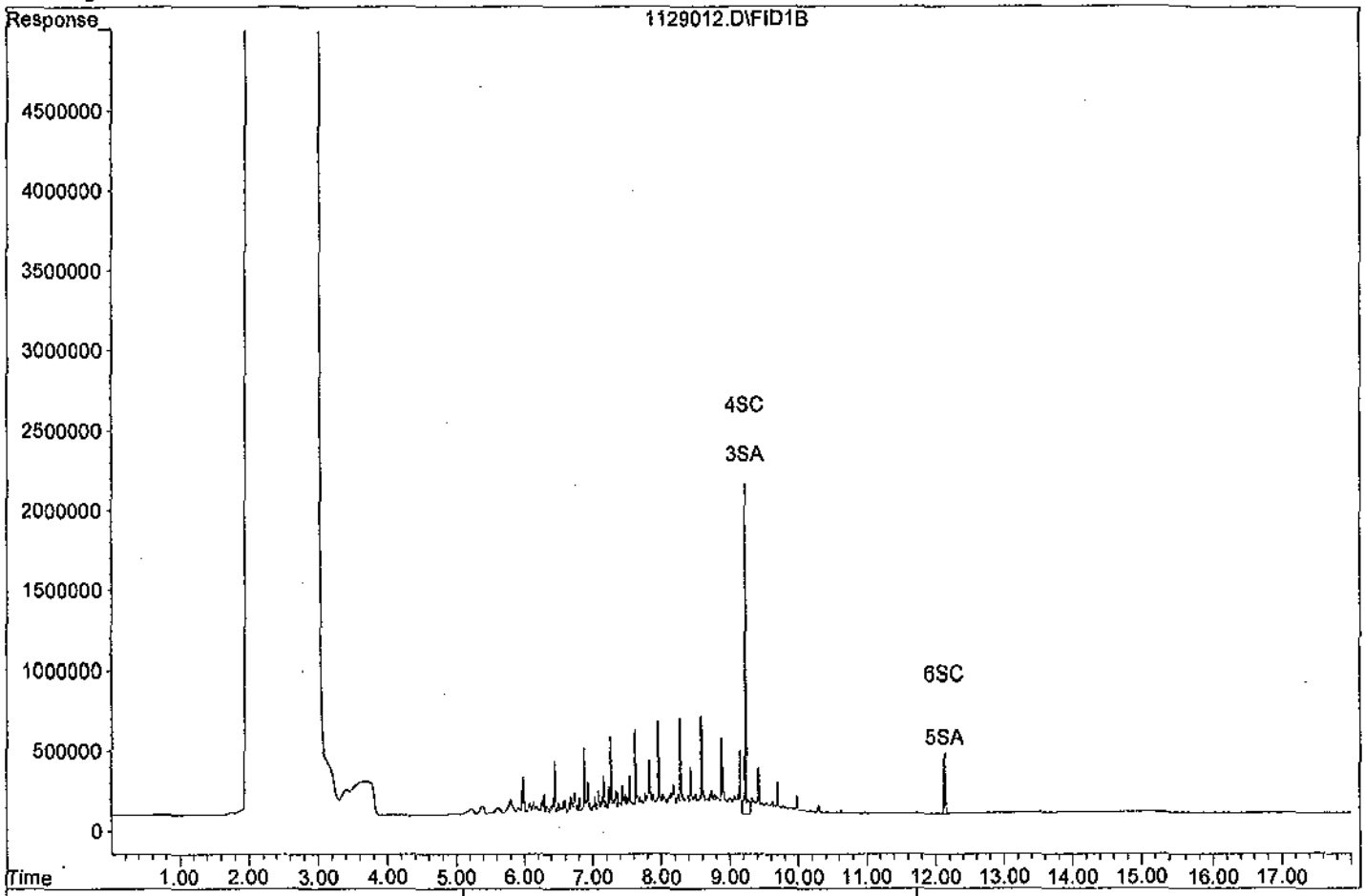
Data File : G:\APOLLO\DATA\111129\1129012.D Vial: 12
Acq On : 11-29-11 13:06:20 Operator: LAC
Sample : DIESEL 400/1000 11/29/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 29 16:12 2011 Quant Results File: TPH8S15.RES

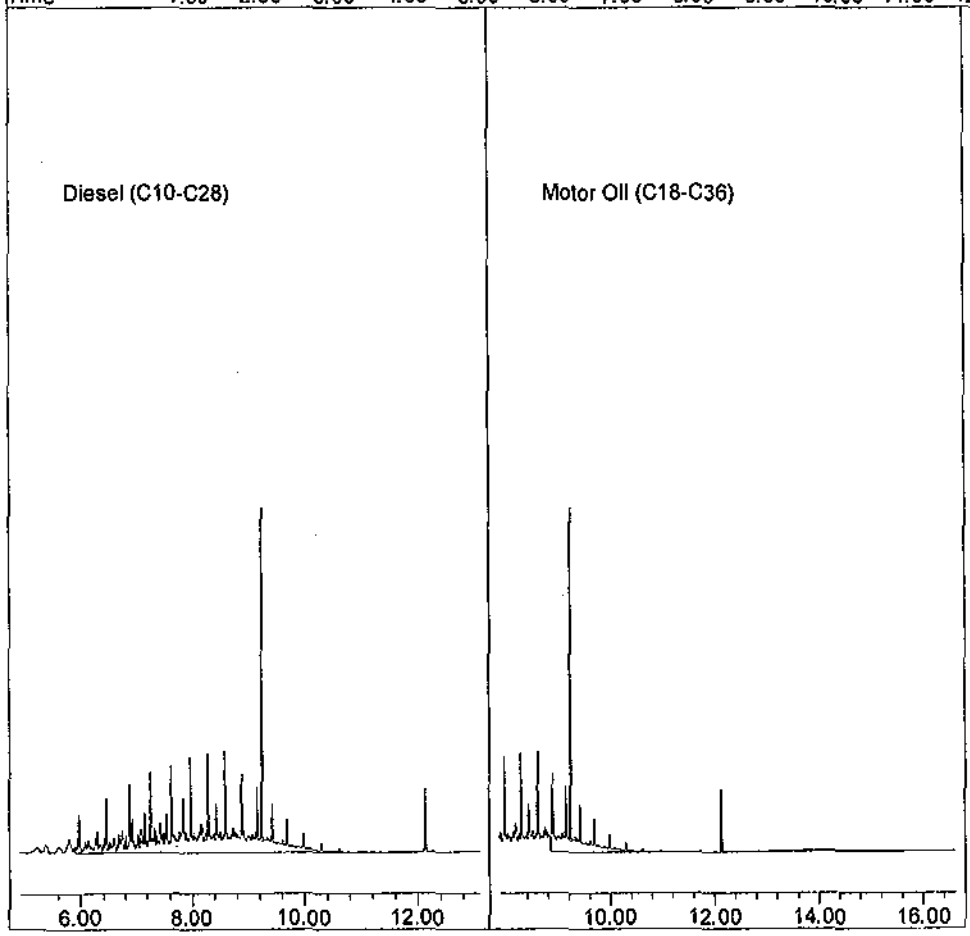
Method : G:\APOLLO\DATA\111123\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Nov 28 16:45:51 2011
Response via : Multiple Level Calibration

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							
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			8.8		

Quantitation Report (Not Reviewed)

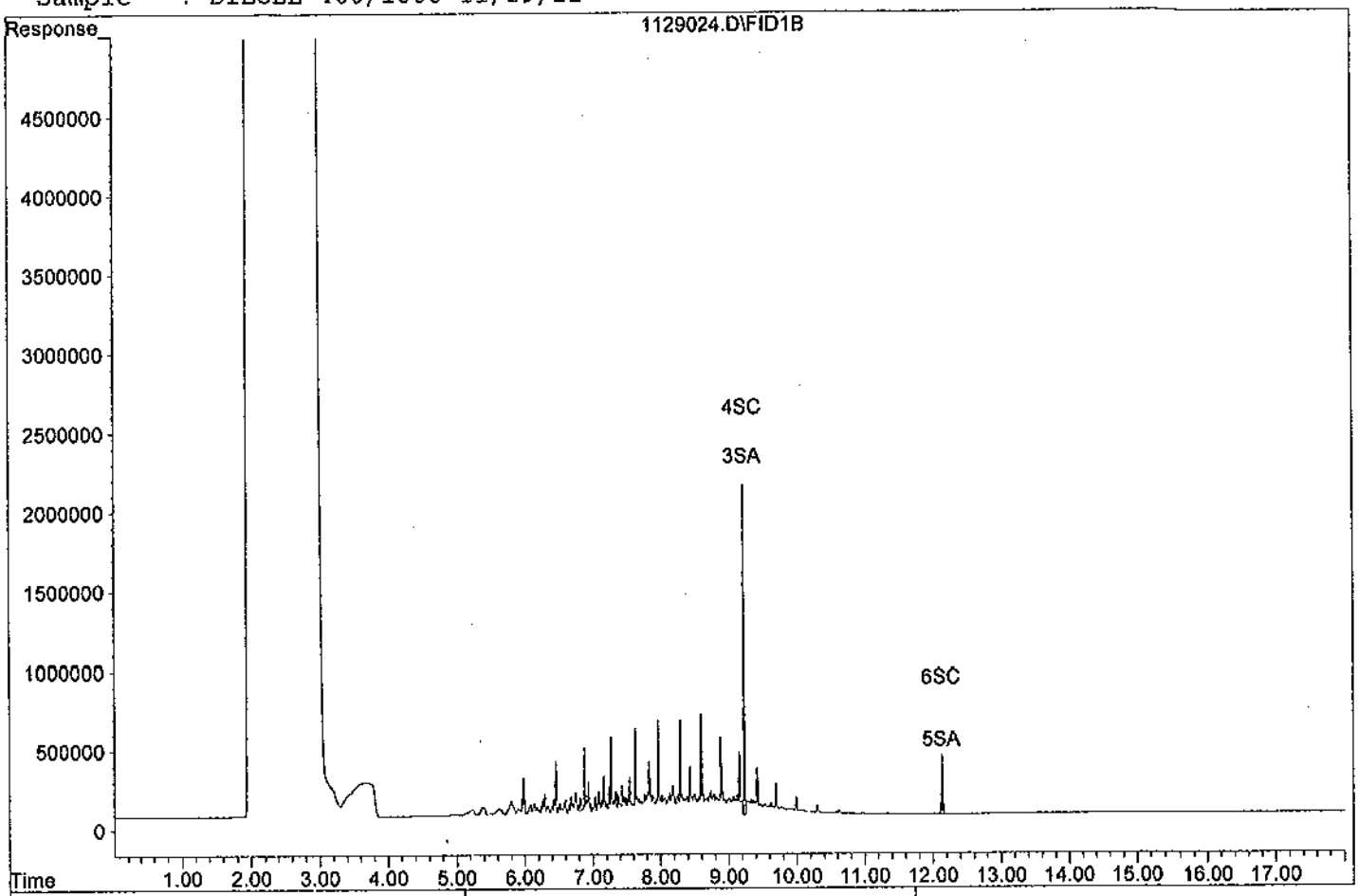
Data File : G:\APOLLO\DATA\111129\1129024.D Vial: 24
Acq On : 11-29-11 21:29:15 Operator: LAC
Sample : DIESEL 400/1000 11/29/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 30 8:35 2011 Quant Results File: TPH8S15.RES

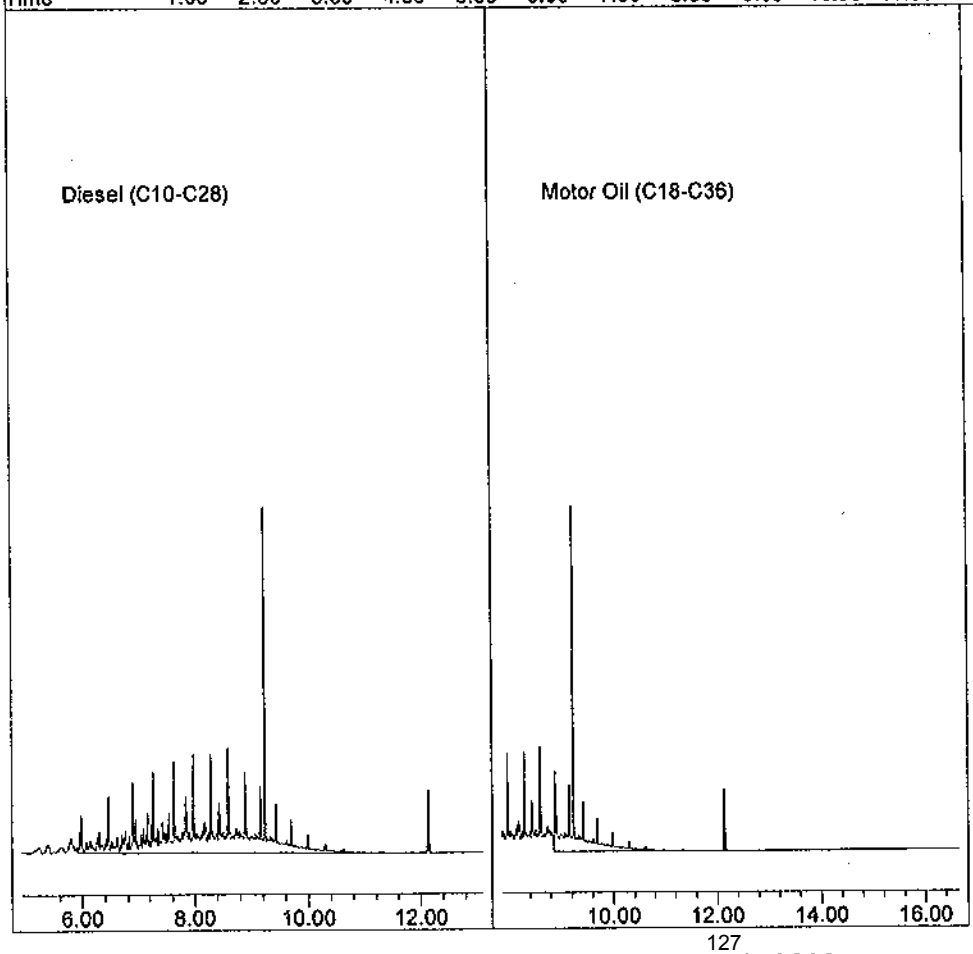
Method : G:\APOLLO\DATA\111123\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Nov 28 16:45:51 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
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

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

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

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

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

Quantitation Report (QT Reviewed)

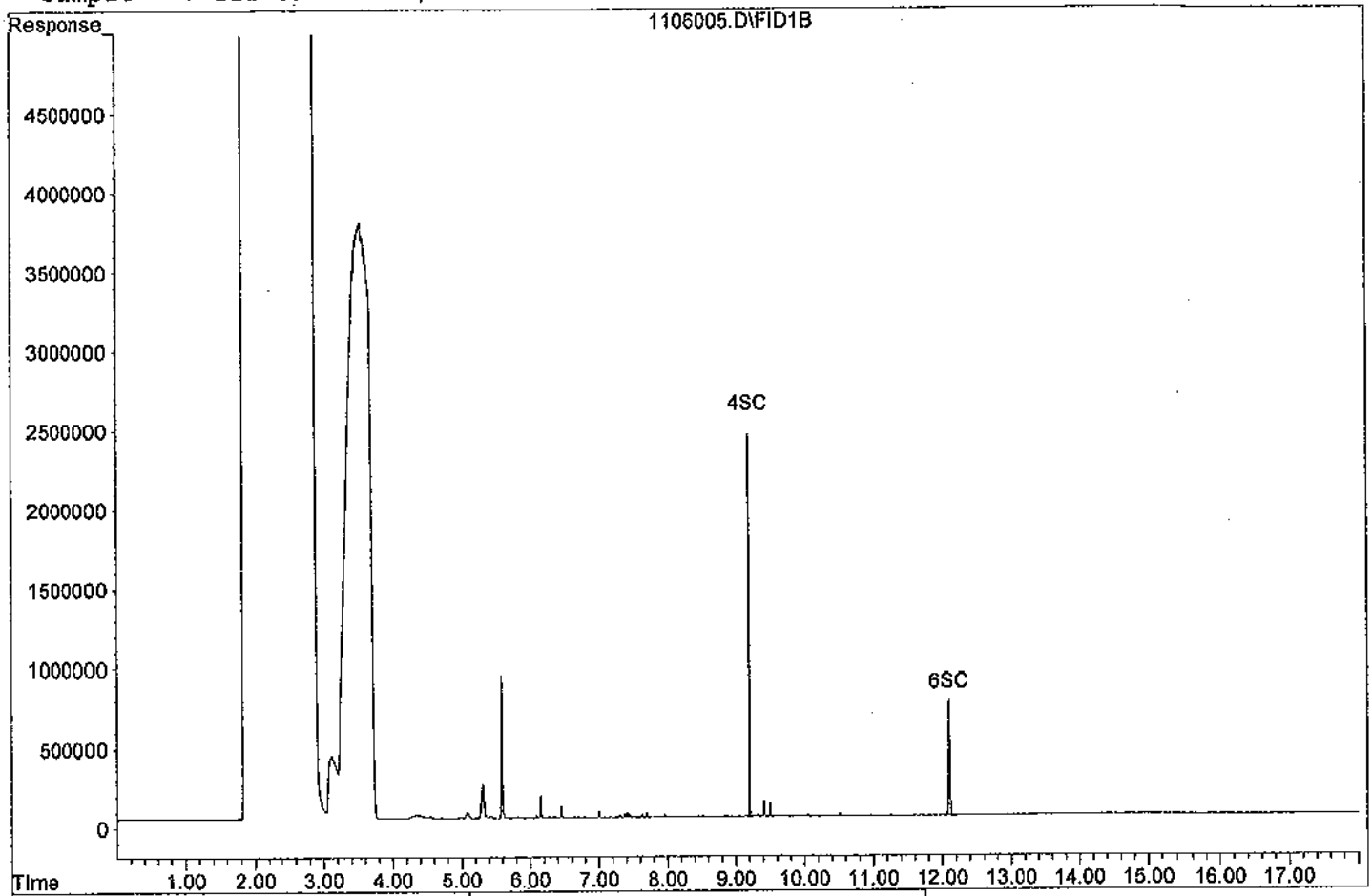
Data File : G:\APOLLO\DATA\111106\1106005.D Vial: 5
Acq On : 11-6-11 17:22:09 Operator: LAC
Sample : 111031A BLK 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Nov 7 9:44 2011 Quant Results File: TPH1028.RES

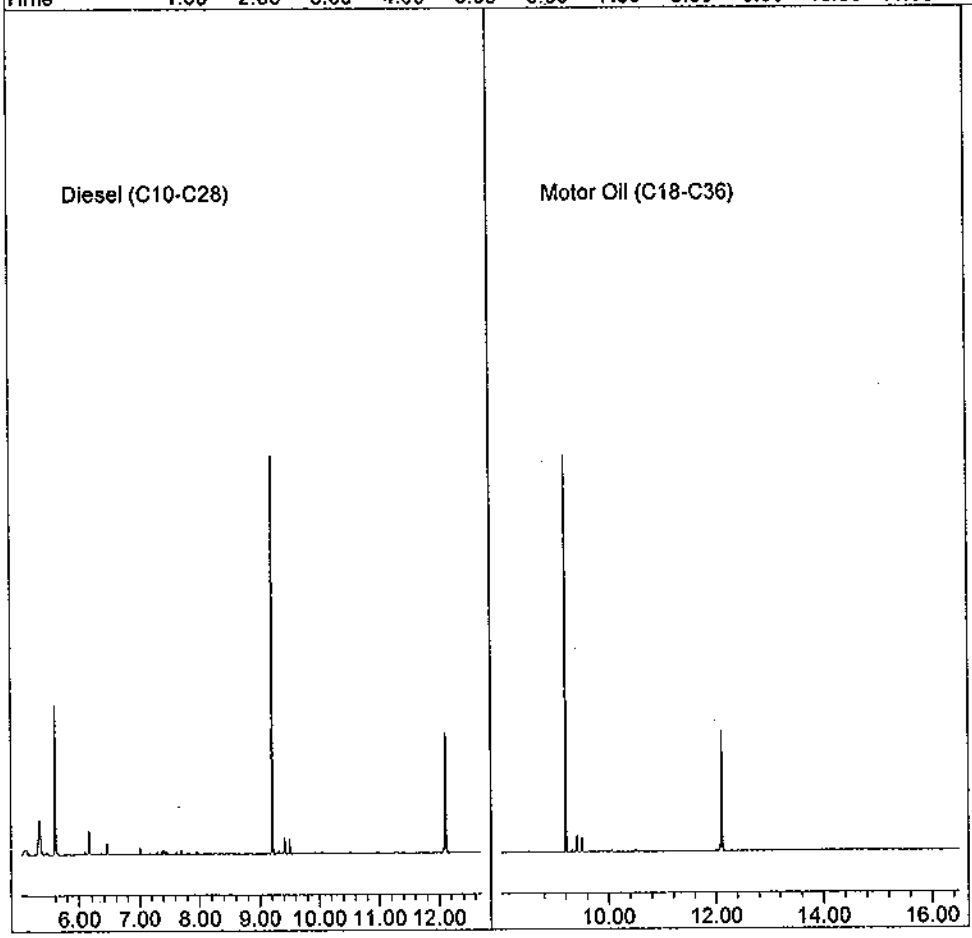
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

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:

Primary	SPK
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

Quantitation Report (QT Reviewed)

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

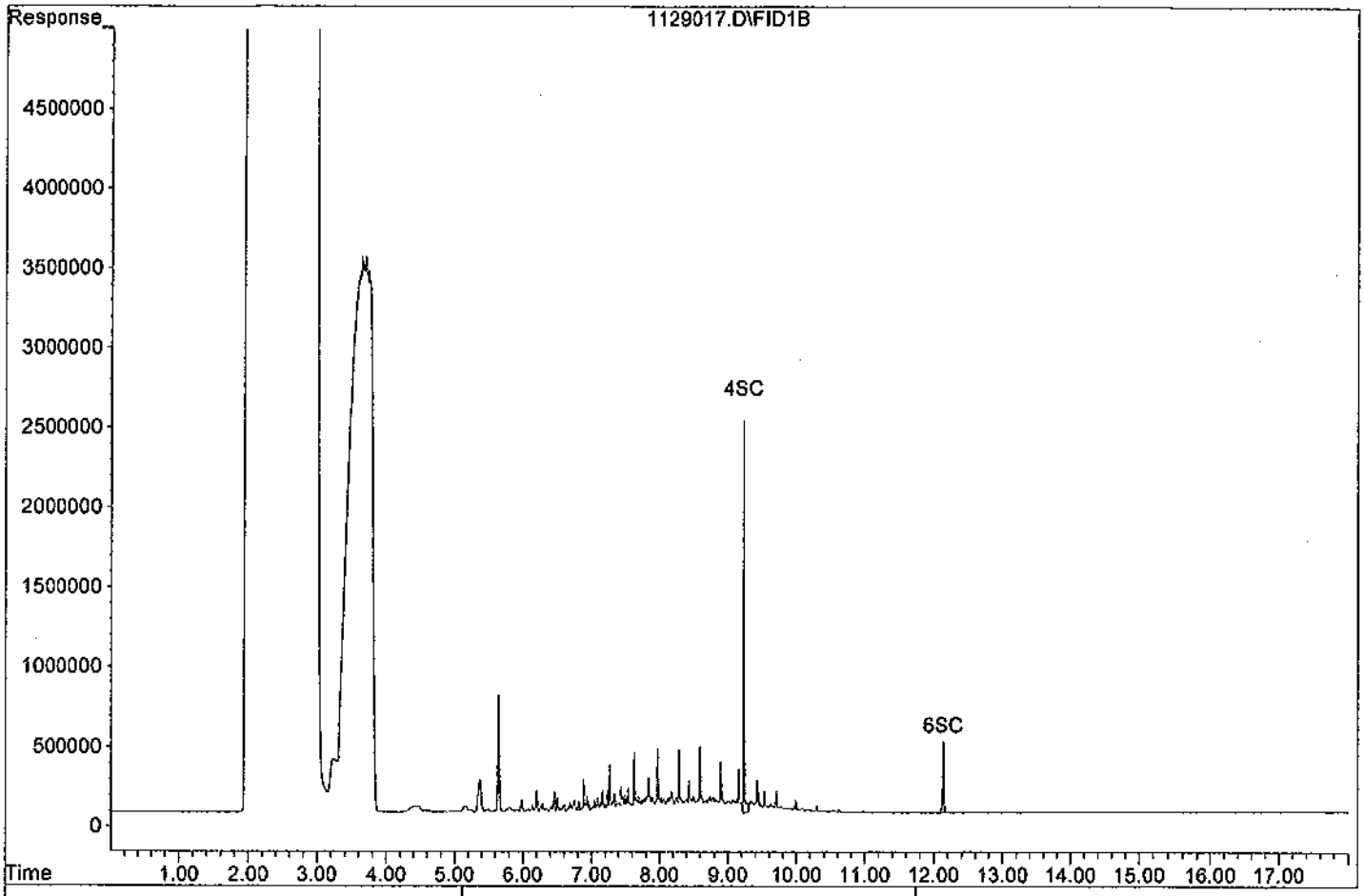
Method : G:\APOLLO\DATA\111123\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Nov 28 16:45:51 2011
Response via : Multiple Level Calibration

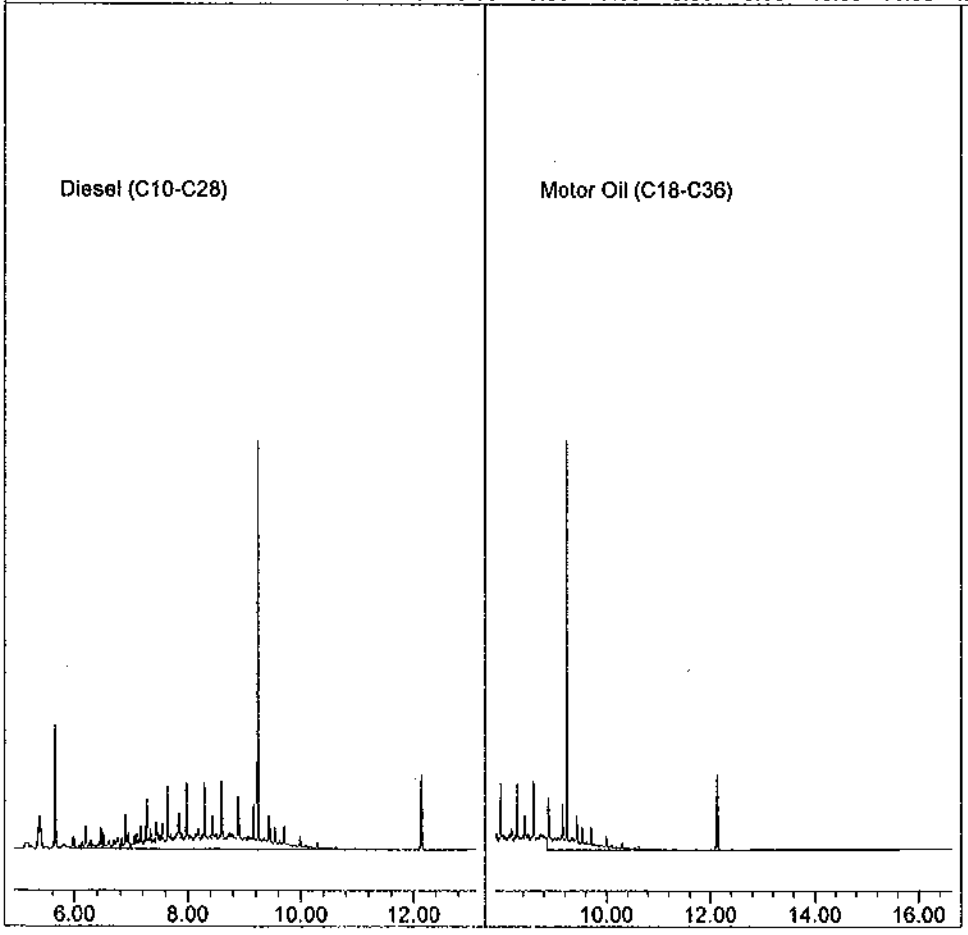
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

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: $\frac{(18706073)(5)}{(319010)(2)} = 146.594\,57227$ LAC 11/30/11 LAC 11/30/11

Data File: G:\APOLLO\DATA\111129\1129017.D
Sample : 111031A LCS-1 5/1000





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

MOTOR OIL SPIKE

MOTOR OIL	50,000ng/µl	0251	200µl	50mL	2000ng/µl	MC #070111B	8/5/11 EX: 11/5/11

o2si 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

o2si 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 Motor Oil composite by
Lot #: 161898 - 28614
Rec: 4/14/11 MFR exp. 07/23/13

OCL/OP WATER SURROGATE

DBC TCMX DECA	5000ng/µl	0281	30ml	100mL	1.5ng/µl	ACETONE #011011C	8/5/11 EX: 11/5/11
TBP TPP	1000ng/µl	0251	500ml		5ng/µl		

o2si 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

o2si smart solutions
Phone: (843) 763-4884 Fax: (843) 766-9181
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

DBC DECA TCMX	500ng/µl	0281	400ml	100mL	20ng/µl	ACETONE #011011C	8/5/11 EX: 11/5/11
TBP TPP	1000ng/µl	0251	500ml		5ng/µl		

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

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

STANDARD	INITIAL CONC	SOURCE	DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	
								033
		THC SURROGATE				(* GAVE TO EXTRACTION)		
O-TERPHENYL OCTACOSANE	600ng/ul	0251	N/A	25mL	600ng/ul	N/A		8/8/11 EX: 8/8/12
		CAT: 110316-05						
		LOT: 170258-29333						
		OP: 8/8/11						
		EX: 8/8/12						
		THC SURROGATE						
O-TERPHENYL OCTACOSANE	600ng/ul	0251	N/A	25mL	600ng/ul	N/A		8/8/11 EX: 8/8/12
		CAT: 110316-05						
	8/8/11	LOT: 176405-29334 THRU 176405-29337						
		OP: 8/8/11						
		EX: 8/8/12						
		OCL Degradation Check						
DDT DDD DDE ENDRIN ENDRIN KETONE ENDRIN ALDEHYDE	100 ng/ul	0251	250mL	5mL	0.5ng/ul	HEXANE # 082610B		8/11/11 EX: 2/11/12
		CAT: 130109-01						
		LOT: OC Pesticide Degradation Check Lot #: 176400 - 29311 Rec: 8/8/11 MFR exp. 07/29/14						
		OP: 8/11/11	8/11/11					
		EX: 8/11/12						
		OCL STOCK						
VARIOUS Analytes	100ng/ul	0251	1000mL	10mL	10ng/ml	Hexane # 082610B		8/11/11 EX: 8/11/12
		Organochlorine Pesticide Solution 20, 100 mg/L, 1ml 13415-09 Lot # 176673 Storage 2-8 Degrees C Expiry 8/2/14 Solutions						
		Organochlorine Pest Soln 20 OP: 8/11/11						
		Lot #: 176673 - 29347 EX: 8/11/12						
		Rec: 8/9/11 MFR exp. 08/02/14						

STANDARD 052	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE / INITIALS

DIESEL STANDARD

DIESEL FUEL #2 | 50,000mg/L | 0251 | 100ml | 5DML | 1000mg/L | MC # 0517113 | 9/1/11 EX: 3/1/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
911598-03
Lot # 167768 | Storage: 5-10 Degrees C | Expiry: 2/15/15
Solvent: 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

OCTACOSANE / O-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 | 5DML | 1000mg/L | MC # 0517113 | 9/1/11 EX: 3/1/12

O2si smart solutions 116390-02
Motor Oil Composite, 50,000 mg/L, 1 ml
OP: 9/1/11 EX: 9/1/12
Storage: </= -10 Degrees C
Made in USA Lot No: 161898 Exp: 7/23/2013
Solvent: Methylene Chloride
Motor oil composite
Lot #: 161898 - 28615
Rec: 4/14/11 MFR exp. 07/23/13

DIESEL 2ND SOURCE

DIESEL FUEL #2 | 50,000mg/L | 0281 | 1000ml | 5DML | 1000mg/L | MC # 0517113 | 9/1/11 EX: 3/1/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
911598-03
Lot # 167769 | Storage: 5-10 Degrees C | Expiry: 2/15/15
Solvent: Methylene Chloride
Diesel Fuel #2 Composite OP: 9/1/11
Lot #: 167769 - 29397 EX: 9/1/12
Rec: 8/26/11 MFR exp. 02/15/15

STANDARD | INITIAL CONC | SOURCE DATE | ALIQUOT | FINAL VOLUME | FINAL CONC | SOLVENT / LOT# | DATE: 10/19/11

B 10/18/11

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

LAC 10/18/11

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

EX: 4/18/12

LAC 10/18/11

DIESEL CCV 400µg/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

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 | 1000ug/ml | O2SI | 10ml | 10ml | 1ug/ul | ACETONE | DILUIC

CAT: 031919-02
LOT: 161445-26939
OP: 10/19/11
EX: 7/1/12

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

B 10/19/11

Prodiamine Curve

PREP DATE:	10/19/2011										
EXP:	4/19/2012										
SUPPLIER	ID#	µg/mL	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
	Prodiamine	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	1000

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

STANDARD 082	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOL. rent / LOT #	DATE / INITIALS

DIESEL SPIKE

DIESEL FUEL #2 — 50,000ug/ml — D251 — 2000ul — 50mL — 2000ug/ml — MC — #S1204 — 10/21/11 — EX: 1/21/12

OP: 10/21/11 EX: 10/21/12
Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
011598-03
Lot# 179635 Storage 5 to 10 Degrees C Expiry 11/8/15
Diesel Fuel #2 Composite
Lot #: 179635 - 29641
Rec: 10/13/11 MFR exp. 11/08/15

OP: 10/21/11 EX: 10/21/12
Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
011598-03
Lot# 179635 Storage 5 to 10 Degrees C Expiry 11/8/15
Diesel Fuel #2 Composite
Lot #: 179635 - 29642
Rec: 10/13/11 MFR exp. 11/08/15

10/21/11

508 ANALYTE — *GAVE TO EXTRACTION TO SPIKE

VARIOUS Analytes — 100/2000ug/ml — D251 — N/A — 1mL — 100/2000ug/ml — N/A — 10/21/11 EX: 10/21/12

o2si
OCC Pesticide Standard, 100/2000 mg/L, 1 ml
Cat. No: 130200-02 Exp: 2/21/2013
Lot No: 156275 Storage: </= 6 Degrees C
OCC Pesticide 100/2000mg/L Solvent: Tol.:Hex. 1:1
Lot #: 156275 - 26160 For Research Use Only
Rec: 2/23/10 MFR exp. 02/21/13 Opened: 10/21/11 EX: 10/21/12

10/21/11

508 CALIBRATION CURVE

10/21/11

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: 1/26/12	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	
chlorthal(dacthal)	(6) 0.2/4.0	5/100ug/ml	400ul		10 mL	
2,6 dichlorobenzonitrile(dicofol)						
kelthane						
nitrofen						
oxadiazon						
oxyfluorfen						
propachlor						
op DDD						
op DDE						
op DDT						
bis(2-ethylhexyl)phthalate						

10/21/11 EX: 1/25/12

508 2ND SRC

10/21/11

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				

10/21/11 EX: 4/8/12

STANDARD 088

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

LAC 10/26/11

TCH SURROGATE CURVE

STD	[µg/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	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

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

DIESEL CURVE

STD	[µg/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			990	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

LAC 10/28/11 EX: 4/26/12

MOTOR OIL CURVE

STD	[µg/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	1000

DIESEL 2ND SOURCE

STD	Init. Conc	Source	Aliquot	Final Vol.	Final Conc.	Solvent
DIESEL 2ND SRC	1000µg/ml	O2SI	400µL	1 mL	400 µg/mL	MC
	Prep:	9/1/2011				51204
	Exp:	3/1/2012				

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

LAC 10/26/11

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	51204			950	900	600	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	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL
	OP 2ND SRC	5		10/19/2011	4/19/2012	500
VWR	HEXANE		082610B			500
					Final VOL.	1000

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

PREP DATE:	11/1/2011												
OPF CURVE													
EXP:	4/13/2012												
						IA	1	2	3	4	5	6	
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	
	OPF STD	5		10/19/2011	4/13/2012	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	

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

PREP DATE:	11/1/2011											
OPC CURVE												
EXP:	3/15/2012											
						1	2	3	4	5	6	
SUPPLIER	ID#	[µg/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		082610B			990	950	800	500	300	NA	
					Final VOL.	1000	1000	1000	1000	1000	1000	

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

11/1/11

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE 08 LS
		DIESEL STANDARD					
DIESEL FUEL #2	50,000 ug/ml	D251	1000 ml	50 ml	1000 ug/ml	MC # 51204	10/26/11 EX: 4/26/12
TERPHENYL	600 ug/ml	D251	4170 ml	50 ug/ml			
HEXANE	CAT: 110316-05 LOT: 176405-29338 OP: 10/10/11 EX: 10/10/12						
		MOTOR OIL STANDARD					
MOTOR OIL	50,000 ug/ml	D251	1000 ml	50 ml	1000 ug/ml	MC # 51204	10/26/11 EX: 4/26/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
Lot # 167768 Storage 5 -10 Degrees C Expiry 2/15/15
Solvent: Methylene Chloride
Diesel Fuel #2 Composite OP. 10/26/11
Lot #: 167768 - 29406 EX: 10/26/12
Rec: 8/26/11 MFR exp. 02/15/15

o2si smart solutions
Motor Oil Composite, 50,000 mg/L, 1 ml OP. 10/26/11 EX: 10/26/12
116390-02 Storage: <= -10 Degrees C
Made in USA 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	O2SI	10ml
DISULFOTON		200	CAT:	130169-01	HEXANE
MALATHION		200	LOT:	178204-29481	LOT#
MOLINATE		200	OP:	10/26/2011	082610B
PHORATE		200	EXP:	3/11/2012	
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			
TRIFLURALIN		200			
SIMAZINE		200			

10/26/11
EX: 3/11/12

10/26/11

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT#	DATE: 11/09/11

11/7/11

PREP:	11/7/2011												
PAC ECO CURVE													
EXP:	2/25/2012												
	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	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			998	990	950	800	500	300	N/A
					Final VOL.	1000	1000	1000	1000	1000	1000	1000
PAC ECO 2ND SRC				DATE	EXP. DATE							
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

TCH SURROGATE CURVE

STD	[µg/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		61204			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	[µg/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			990	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	[µg/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	1000

DIESEL 2ND SOURCE

STD	Init. Conc	Source	Aliquot	Final Vol.	Final Conc.	Solvent
DIESEL 2ND SRC	1000µg/ml	O2SI	400µL	1 mL	400 µg/mL	MC
	Prep:	9/1/2011				61204
	Exp:	3/1/2012				

11/8/11 EX: 3/1/12

11/9/11

PREP DATE:	11/9/2011											
TERBACIL CURVE												
EXP:	3/13/2012											
						0.05	0.25	1	2.5	3.5	5	
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	
	TERBACIL STD	6		9/13/2011	3/13/2012	10	50	200	500	700	1000	
VWR	HEXANE		0826108			990	970	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#	[µg/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

11/9/11

PREP DATE:	11/9/2011												
OPF CURVE													
EXP:	2/7/2012												
						XA	1	2	3	4	5	6	
SUPPLIER	ID#	[µg/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			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	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
PCB SOIL SPIKE								
AR 1260	1000ng/µL	0251	1250µL	25mL	50ng/µL	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							
PCB WATER SPIKE								
AR1016	1000ng/µL	0251	125µL	25mL	5ng/µL	ACETONE		11/10/11
AR1260	CAT: 130011-03					#		EX: 2/10/12
	LOT: 163607-27214							
	OP: 8/2/11							
	EX: 8/2/12							
HERB 100/1000 (LVL 3) CCV								
VARIOUS	VARIOUS	HERB STD.	100µL	1mL	100ng/µL	MTBE		11/10/11
SEE PG 075	PREP: 10/11/11					#		EX: 4/11/12
	EX: 4/11/12							
THC SURROGATE CAL. STD.								
D-TERPHENYL	1000ng/µL	0251	834µL	10mL	50ng/µL	MC		11/15/11
DICHLOROBENZENE	CAT: 110316-05					#		EX: 5/15/12
	LOT: 176405-29342							
	OP: 10/10/11							
	EX: 10/10/12							

LAC 11/15/11

TCH 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

STANDARD | INITIAL CONC | SOURCE DATE | ALIQUOT | FINAL VOLUME | FINAL CONC | SOLVENT / LOT # 105 VIALS | DATE / INITIALS

exp 4/26/12

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
		10/26/11	04/26/12			51204

LAC
4/29/11

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
		10/26/11	04/26/12			51204

exp
4/26/11

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE / INITIALS
OCL/OP WATER SURROGATE							
DEA	5000ng/ml	O2SI	3ml	100ml	1.5ng/ml	ACETONE #011011C	11/2/11 EX: 2/2/12
TCMX		CAT: 130070-02					
DBC		LOT: 154164-29416					
		OP: 11/2/11					
		EX: 11/2/12					
TBP	1000ng/ml	O2SI	500ml		5ng/ml		
TPP		Tributyl- and Triphenylphosphate Solution, 1,000 mg/L, 1 ml; 130161-02; Lot # 164817; Storage 5-10 Degree C; Expiry 10/19/13; Solv: Acetone; Thiobutyl and Triphenyl phosphate; Lot #: 164817-27660; Rec: 10/20/10 MFR exp. 10/19/13					
OCL/OP WATER SURROGATE							
DEA	5000ng/ml	O2SI	3ml	100ml	1.5ng/ml	ACETONE #011011C	11/3/11 EX: 2/3/12
TCMX		CAT: 130070-02					
DBC		LOT: 154164-29416					
		OP: 11/2/11					
		EX: 11/2/12					
TBP	1000ng/ml	O2SI	500ml		5ng/ml		
TPP		CAT: 130161-02					
		LOT: 164817-27660					
		OP: 11/2/11					
		EX: 11/2/12					

*WAS NOT RECORDED ON 11/2/11 11/3/11

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
		10/26/2011	4/26/2012			51204

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

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
		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 /JP5 STD	1000UG/ML	O2SI	400 µL	1ML	400 UG/ML	MC
		10/18/2011	4/16/2012		1mL	010811B

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

Organic Extraction Worksheet

Method	THC-Separatory Funnel Extraction 3510C	Extraction Set	111031A	Extraction Method	SEP011	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 Blk				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	
Date	11/1/11
Time	11:20
Refrigerator	Hob #65

	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

11/1/2011 8:11:48 AM Ext_ID 33540

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	EMD 51204
Na2SO4	3581C501

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	
Date	11/2/11
Time	1120
Refrigerator	Ambient

	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

APPL, INC.

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
QC Summary

APPL, INC.

Method Blank
EPA 8270D SIM

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

APPL Inc.
908 North Temperance Avenu
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

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66116

Case No: 66116 Date Analyzed: 11/05/11

Matrix: WATER 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

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66116

Case No: 66116 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				
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: _____

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 4:07:21 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	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.: 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) _____

		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	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

APPL, INC.

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: ES050
Sample Collection Date: 10/25/11

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

Quantitation Report (QT Reviewed)

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					
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

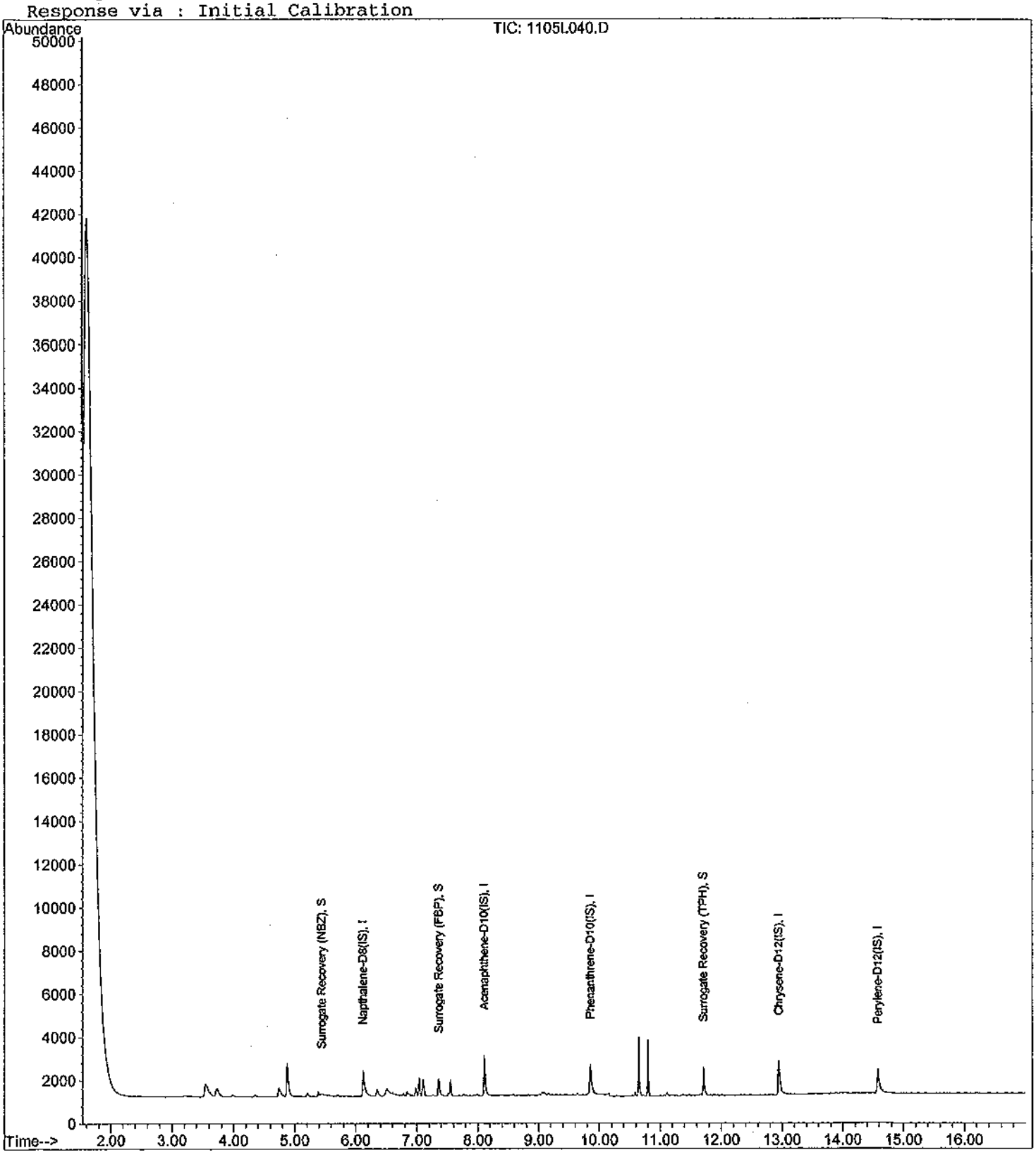
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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

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: #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

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1105L041.D Vial: 41
Acq On : 6 Nov 11 1:41 Operator: LF
Sample : AY49482W08 1/1030 Inst : Linus
Misc : 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						
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

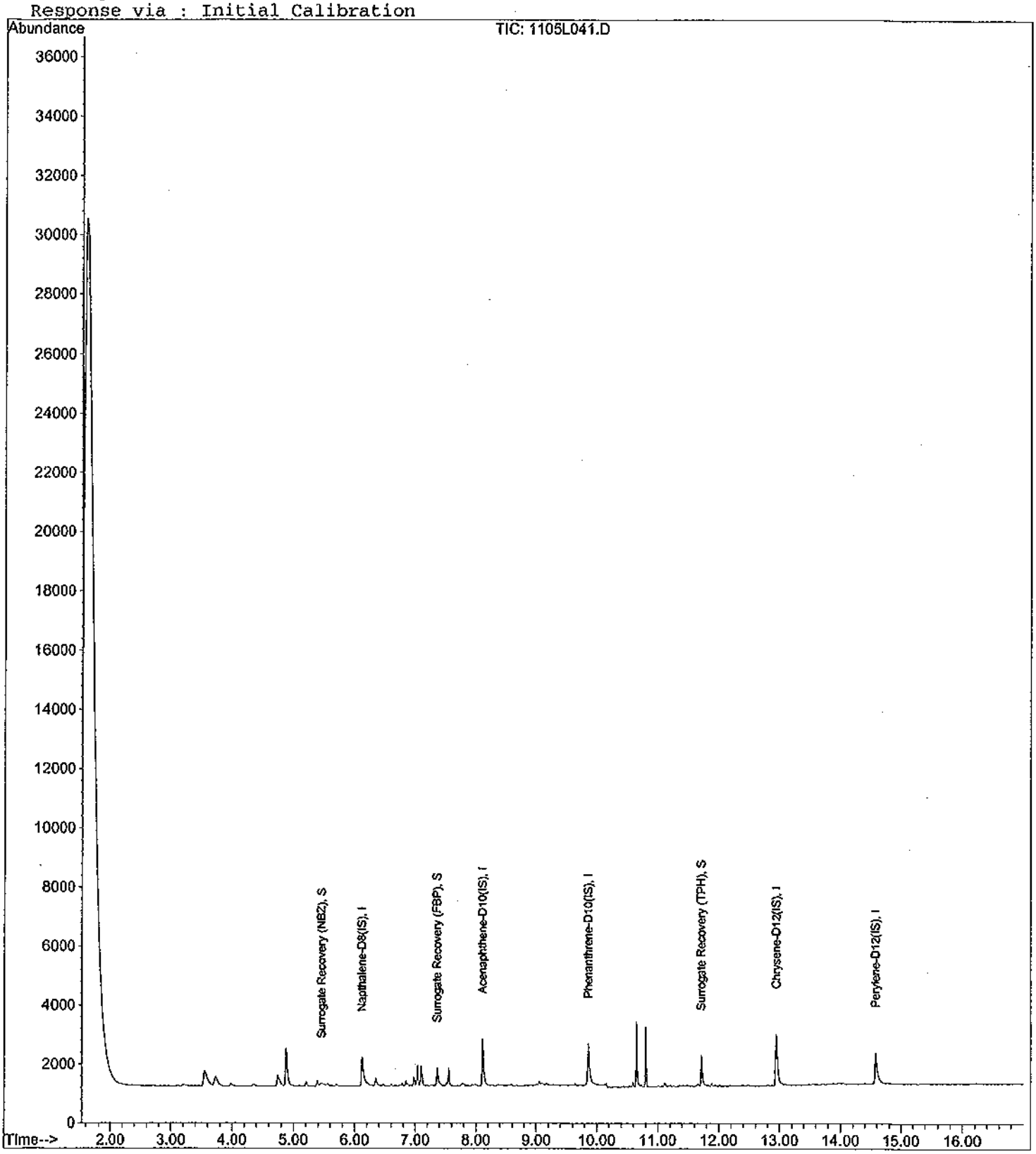
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\1105L041.D Vial: 41
Acq On : 6 Nov 11 1:41 Operator: LF
Sample : AY49482W08 1/1030 Inst : Linus
Misc : 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

APPL, INC.

EPA 8270C SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66116
Case No: Initial Cal. Date: 10/27/11
Matrix: Instrument: Linus
Initials:

			1027L003.D	1027L004.D	1028L005.D	1028L006.D	1028L007.D	1028L008.D	1028L009.D	1028L010.D						
		Compound	0.1	0.2	0.5	1	5	10	50	100			Avg	%RSD		
1	I	Napthalene-D8(IS)														
2	S	Surrogate Recovery (NBZ)	0.4127	0.4673	0.4981	0.4588	0.3927	0.4106	0.4509	0.4908			0.45	8.7	S	
3	TM	Naphthalene	1.848	2.053	1.897	1.975	1.484	1.725	1.497	1.455			1.7	14	TM	
4	TM	2-Methylnaphthalene	0.8339	0.8429	0.8095	0.9618	0.8735	1.026	0.9052	0.8919			0.89	8.0	TM	
5	TM	1-Methylnaphthalene	1.006	1.140	1.127	1.262	0.9445	1.066	0.8694	0.8324			1.0	14	TM	
6	I	Acenaphthene-D10(IS)														
7	S	Surrogate Recovery (FBP)	2.266	2.373	2.477	2.606	2.184	2.112	1.948	1.864			2.2	11	S	
8	TM	Acenaphthylene	3.556	3.474	3.469	3.747	3.046	3.265	3.097	2.960			3.3	8.4	TM	
9	*TM	Acenaphthene	2.197	2.003	2.015	2.153	1.761	1.820	1.687	1.595			1.9	12	*TM	
10	TM	Fluorene	2.179	2.202	2.246	2.358	1.948	2.057	1.915	1.761			2.1	9.5	TM	
11	I	Phenanthrene-D10(IS)														
12	TM	Phenanthrene	1.851	1.670	1.765	1.775	1.470	1.719	1.377	1.248			1.6	13	TM	
13	TM	Anthracene	1.736	1.681	1.869	1.846	1.493	1.754	1.415	1.278			1.6	13	TM	
14	*TM	Fluoranthene	3.116	3.004	3.048	3.052	2.530	3.014	2.407	2.162			2.8	13	*TM	
15	I	Chrysene-D12(IS)														
16	TM	Pyrene	2.537	2.408	2.291	2.412	2.045	2.168	1.892	1.849			2.2	12	TM	
17	S	Surrogate Recovery (TPH)	1.147	1.155	1.070	1.235	1.097	1.067	0.9366	0.9044			1.1	10	S	
18	TM	Benz (a) anthracene	1.767	1.435	1.243	1.561	1.267	1.372	1.372	1.578			1.4	12	TM	
19	TM	Chrysene	2.135	2.066	2.037	2.114	1.981	2.084	1.655	1.438			1.9	13	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.825	1.519	1.284	1.532	1.378	1.521	1.460	1.500			1.5	10	TM	
21	I	Perylene-D12(IS)														
22	TM	Benzo (b) fluoranthene	1.711	1.652	1.826	1.857	1.789	1.866	1.765	1.625			1.8	5.2	TM	
23	TM	Benzo (k) fluoranthene	2.136	1.797	1.882	1.854	1.869	1.935	1.561	1.548			1.8	11	TM	
24	*TM	Benzo (a) pyrene	2.001	1.899	1.650	1.686	1.673	1.757	1.585	1.533			1.7	9.2	*TM	
25	TM	Dibenz (a,h) anthracene	1.773	1.577	1.175	1.438	1.356	1.477	1.399	1.379			1.4	12	TM	
26	TM	Benzo (g,h,i) perylene	1.410	1.754	1.503	1.639	1.449	1.558	1.444	1.446			1.5	7.8	TM	
27																
28																
29																
30																
31																
32																
33																
34																
35																

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1027L003.D Vial: 3
Acq On : 27 Oct 11 19:12 Operator: LF
Sample : 0.1ug/ml PAH 10-27-11 Inst : Linus
Misc : 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						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

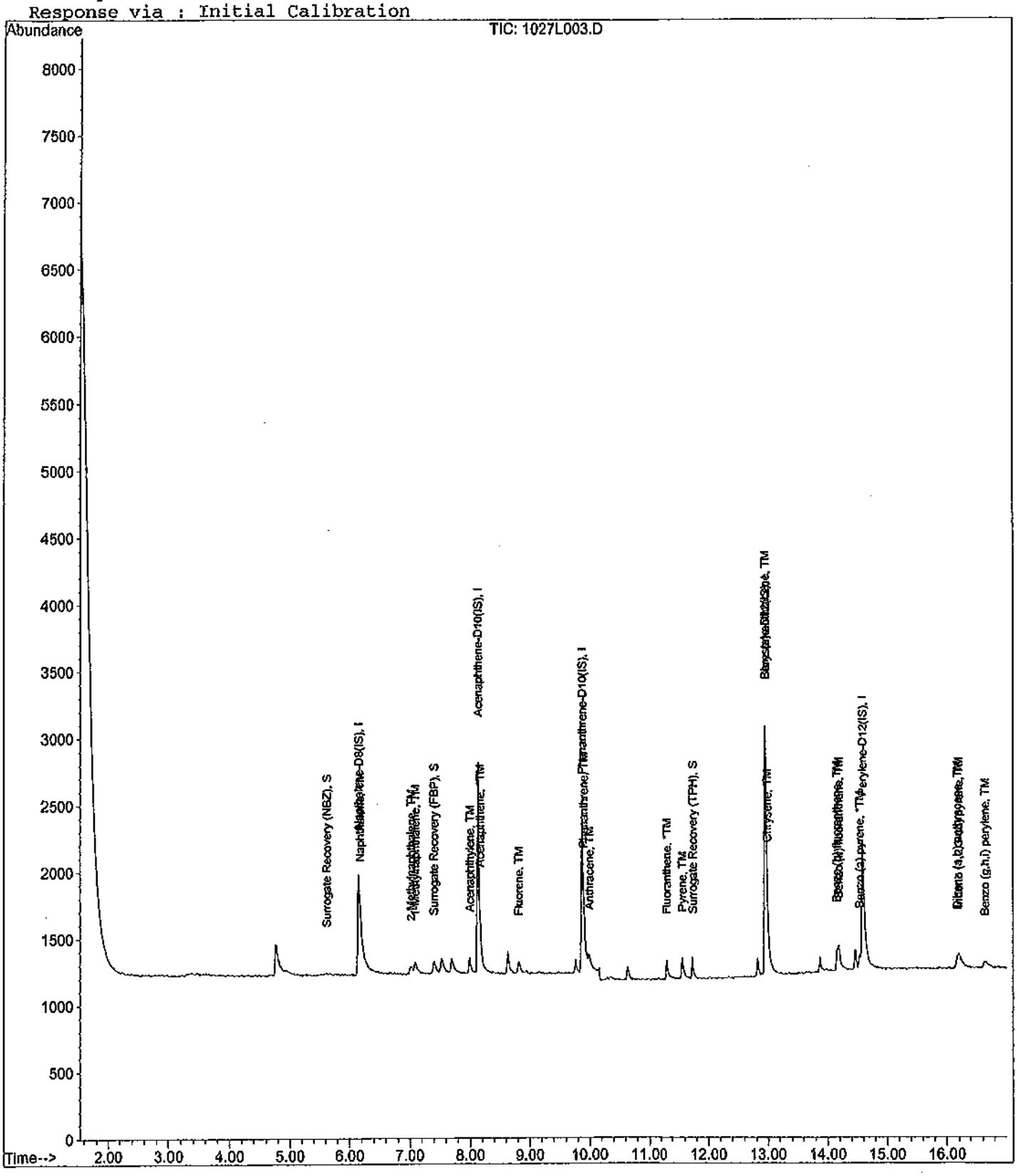
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\1027L003.D Vial: 3
Acq On : 27 Oct 11 19:12 Operator: LF
Sample : 0.1ug/ml PAH 10-27-11 Inst : Linus
Misc : 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



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1027L004.D Vial: 4
Acq On : 27 Oct 11 19:38 Operator: LF
Sample : 0.2ug/ml PAH Inst : Linus
Misc : 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

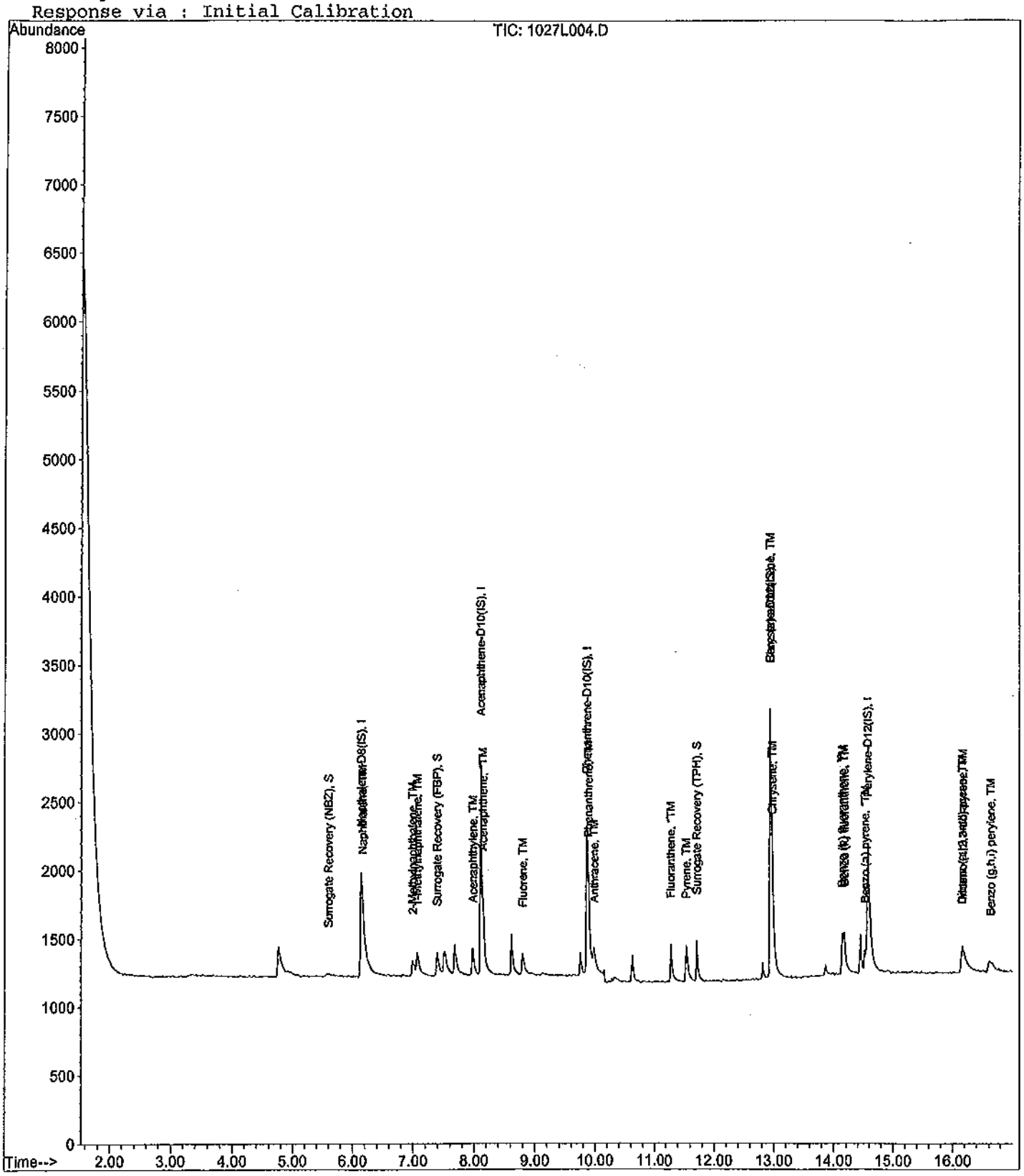
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\1027L004.D Vial: 4
Acq On : 27 Oct 11 19:38 Operator: LF
Sample : 0.2ug/ml PAH Inst : Linus
Misc : 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



Quantitation Report (QT Reviewed)

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) 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					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

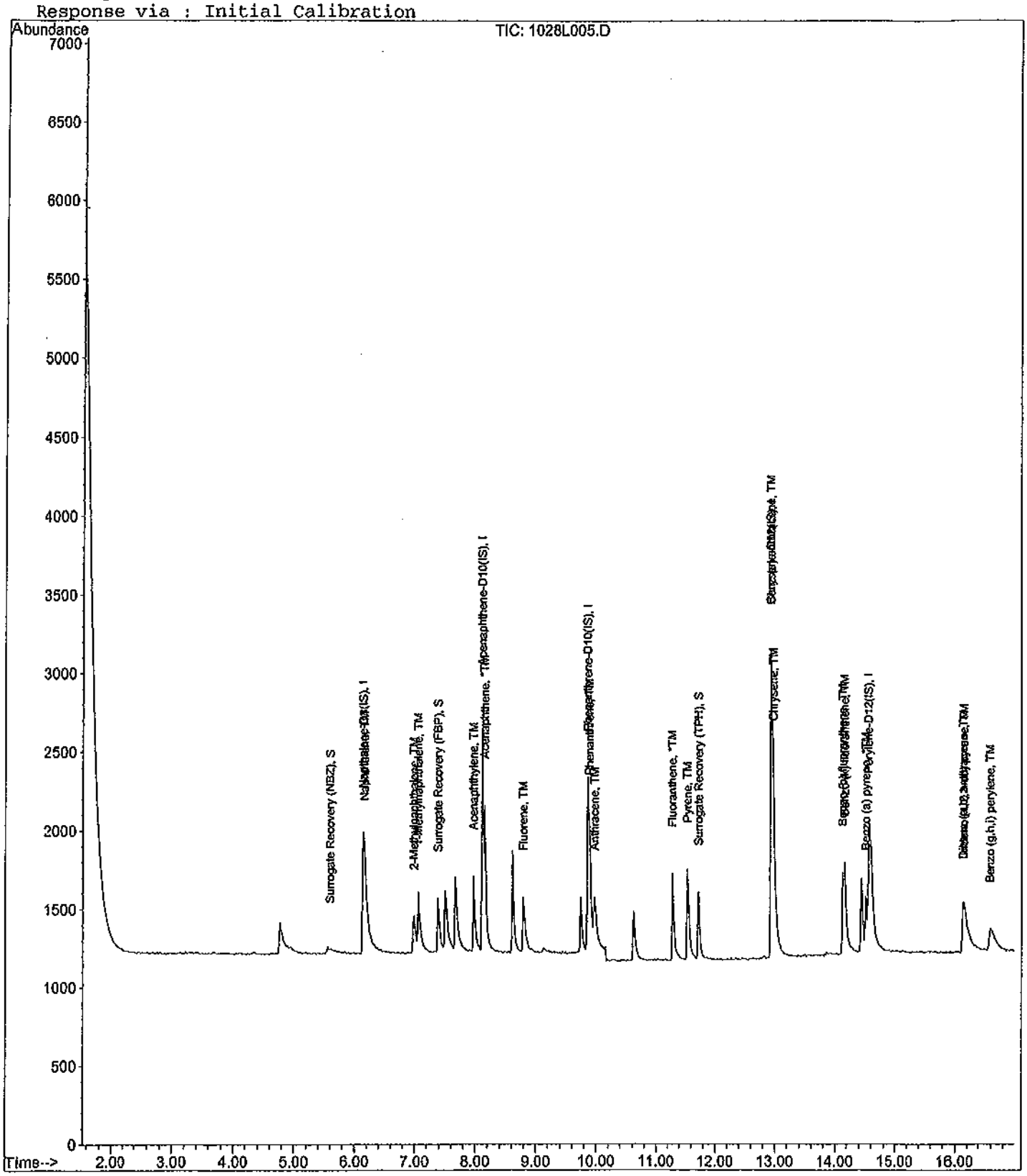
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (QT Reviewed)

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) Napthalene-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

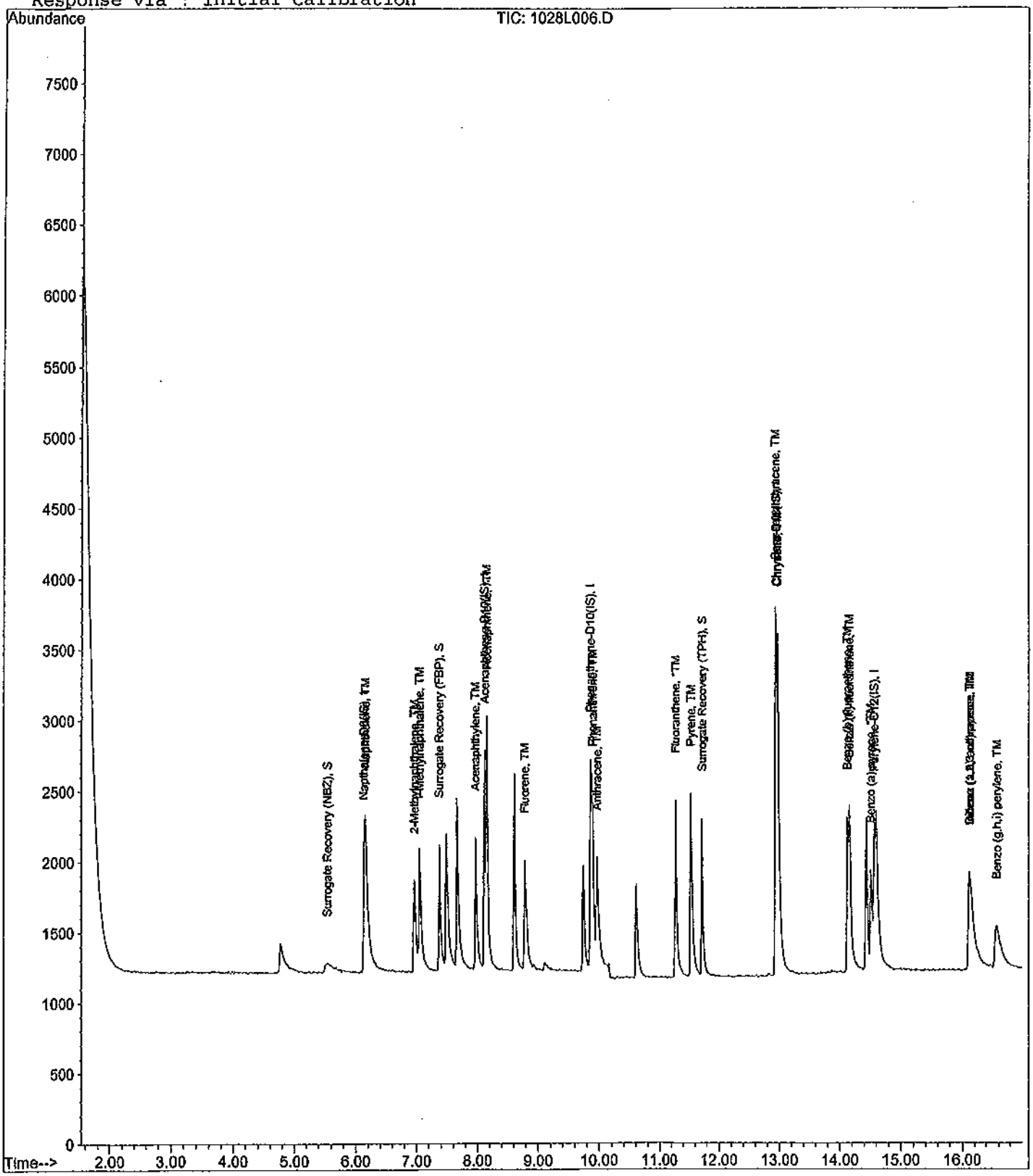
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (QT Reviewed)

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) 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						Qvalue
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

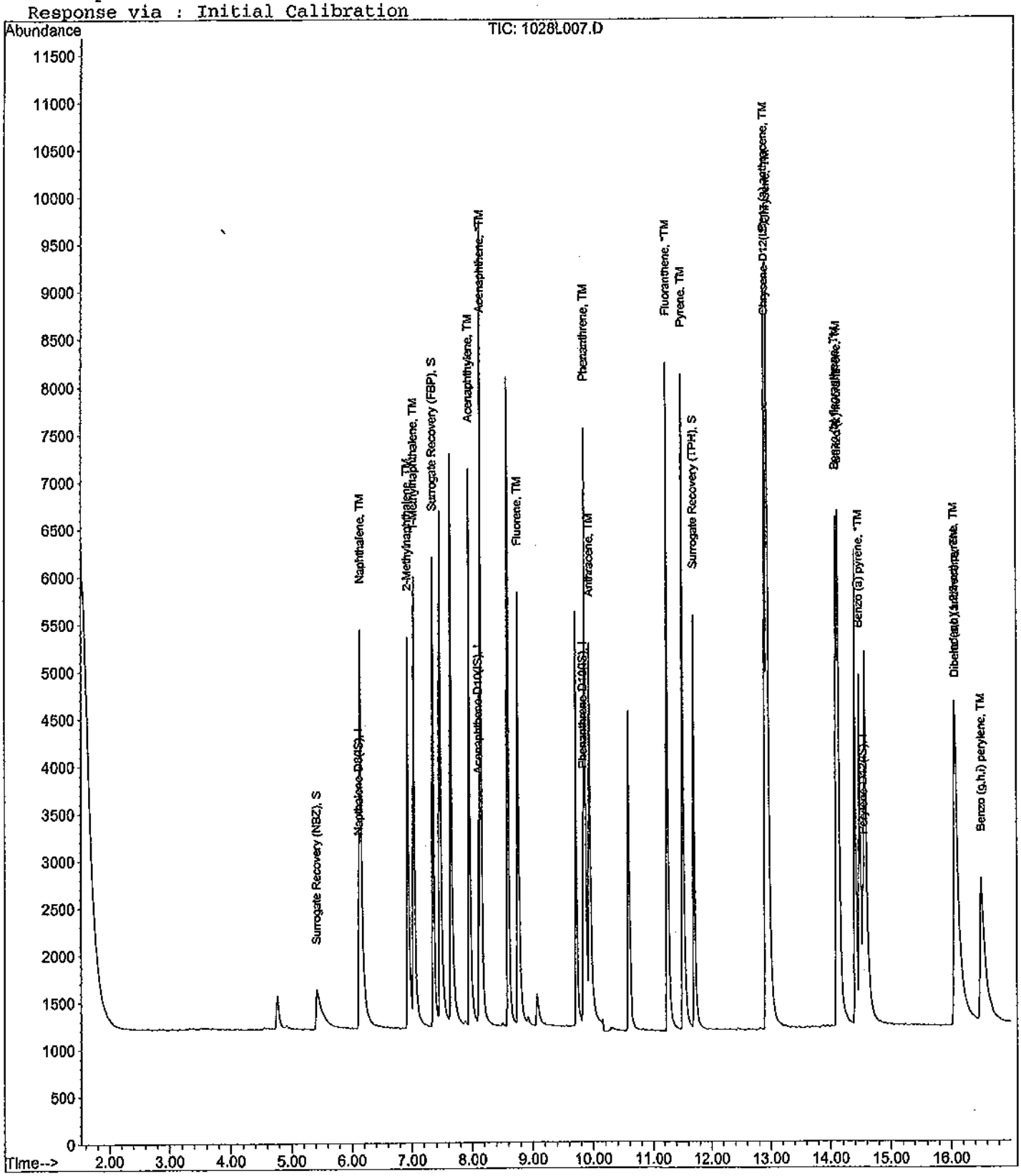
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (QT Reviewed)

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

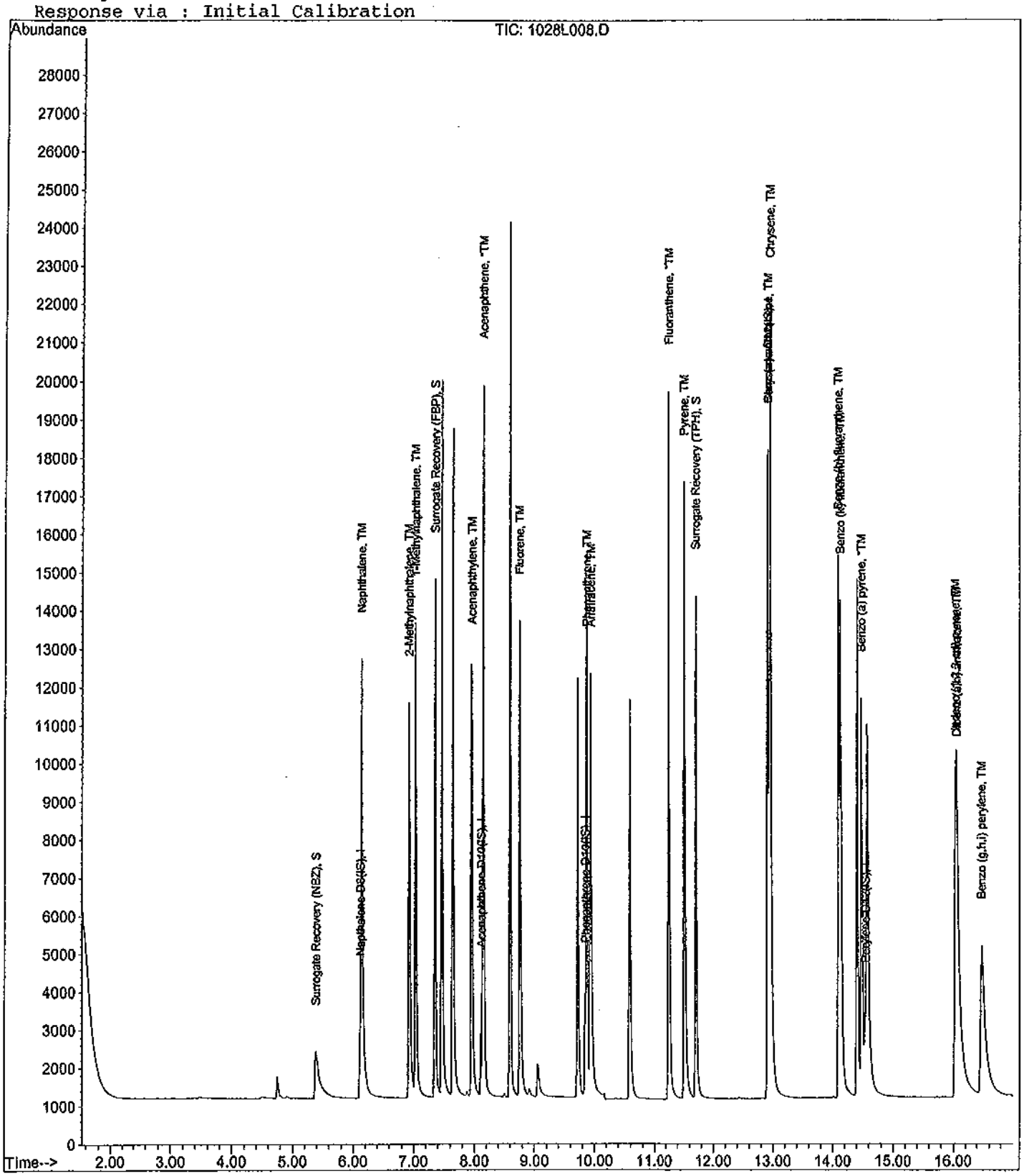
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1028L009.D Vial: 9
Acq On : 28 Oct 11 12:49 Operator: LF
Sample : 50ug/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 10:41:31 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

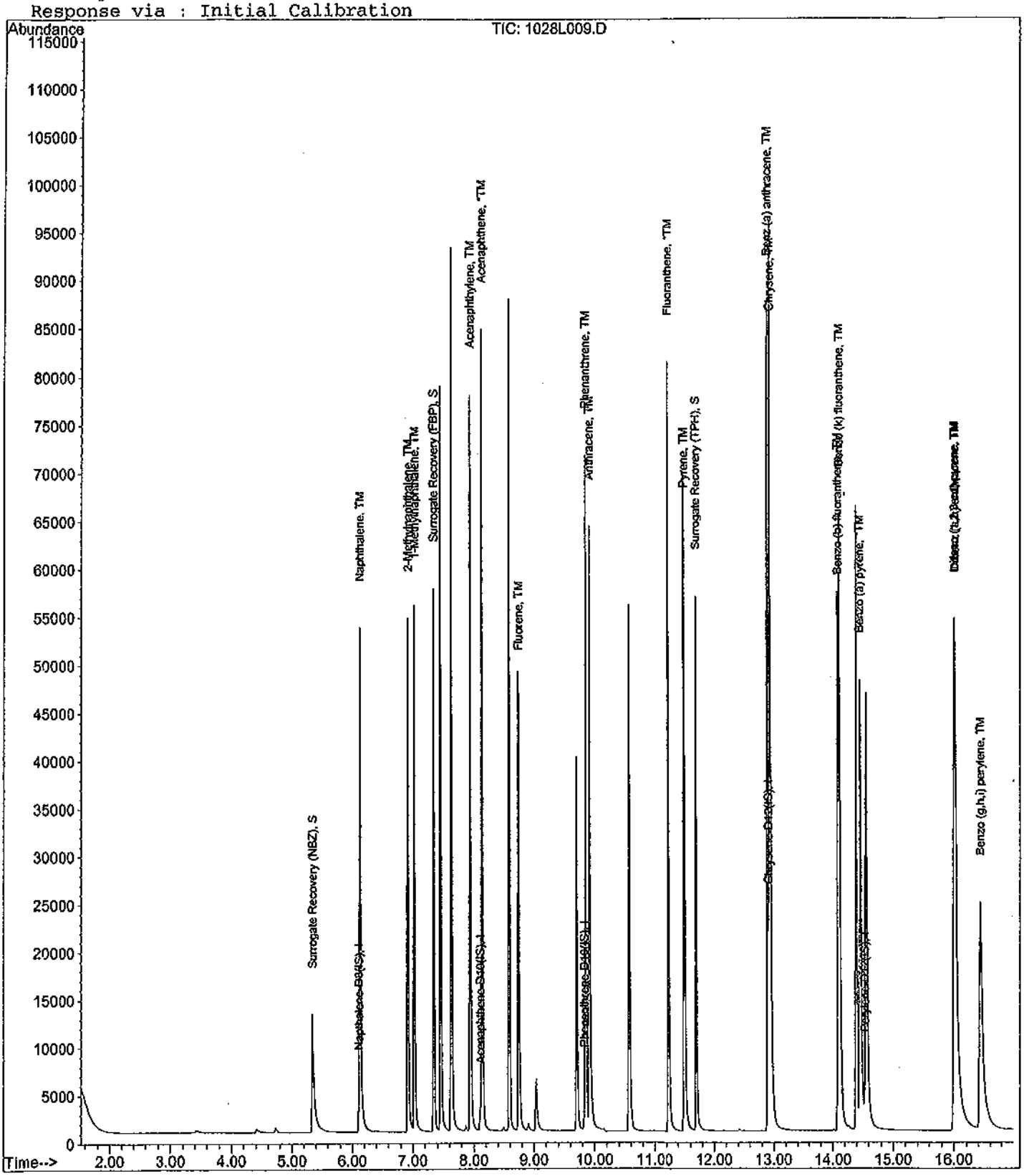
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\1028L009.D Vial: 9
Acq On : 28 Oct 11 12:49 Operator: LF
Sample : 50ug/ml PAH Inst : Linus
Misc : 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



Quantitation Report (QT Reviewed)

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						Qvalue
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

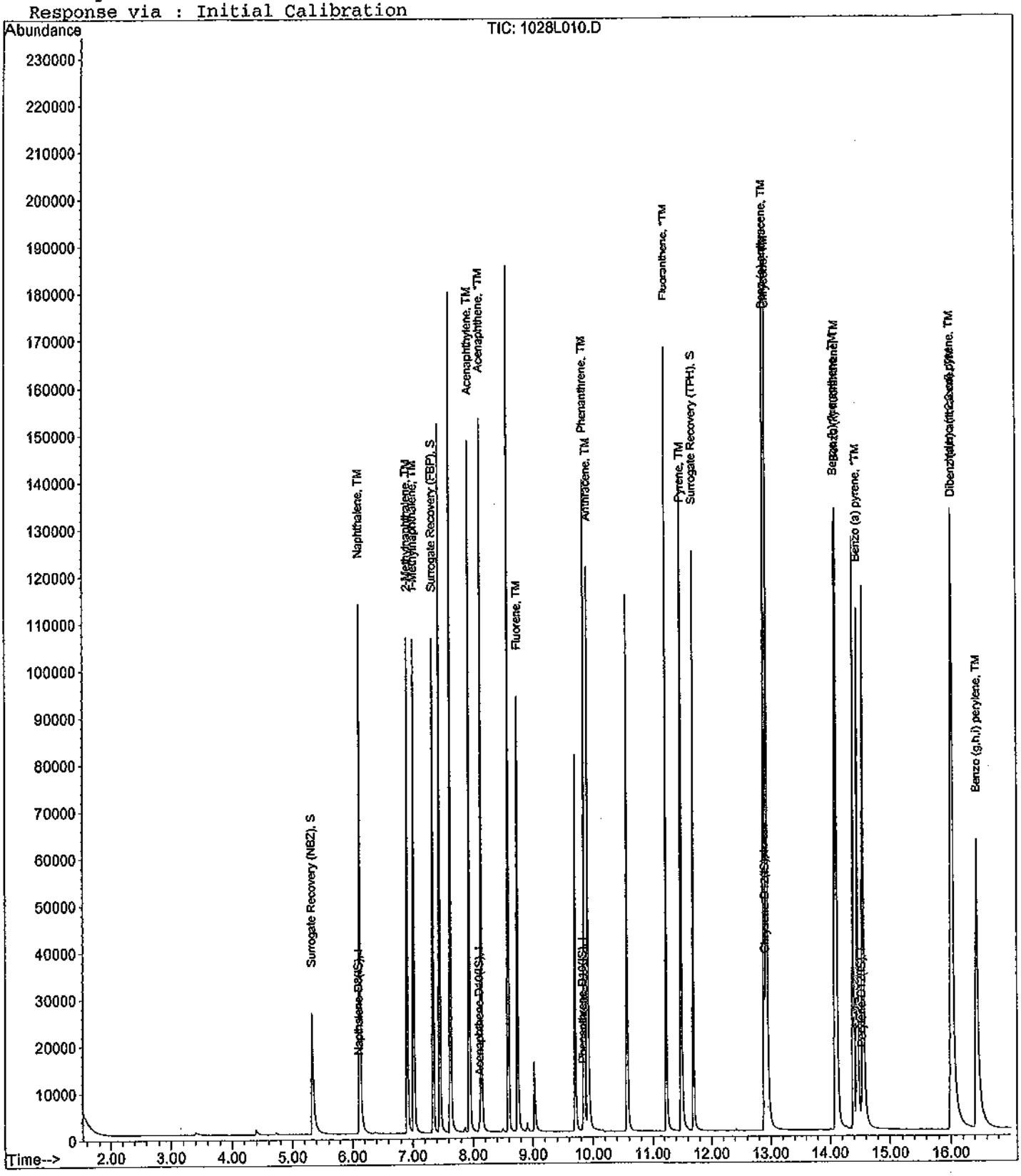
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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: 66116
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	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		

Quantitation Report (QT Reviewed)

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						Qvalue
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

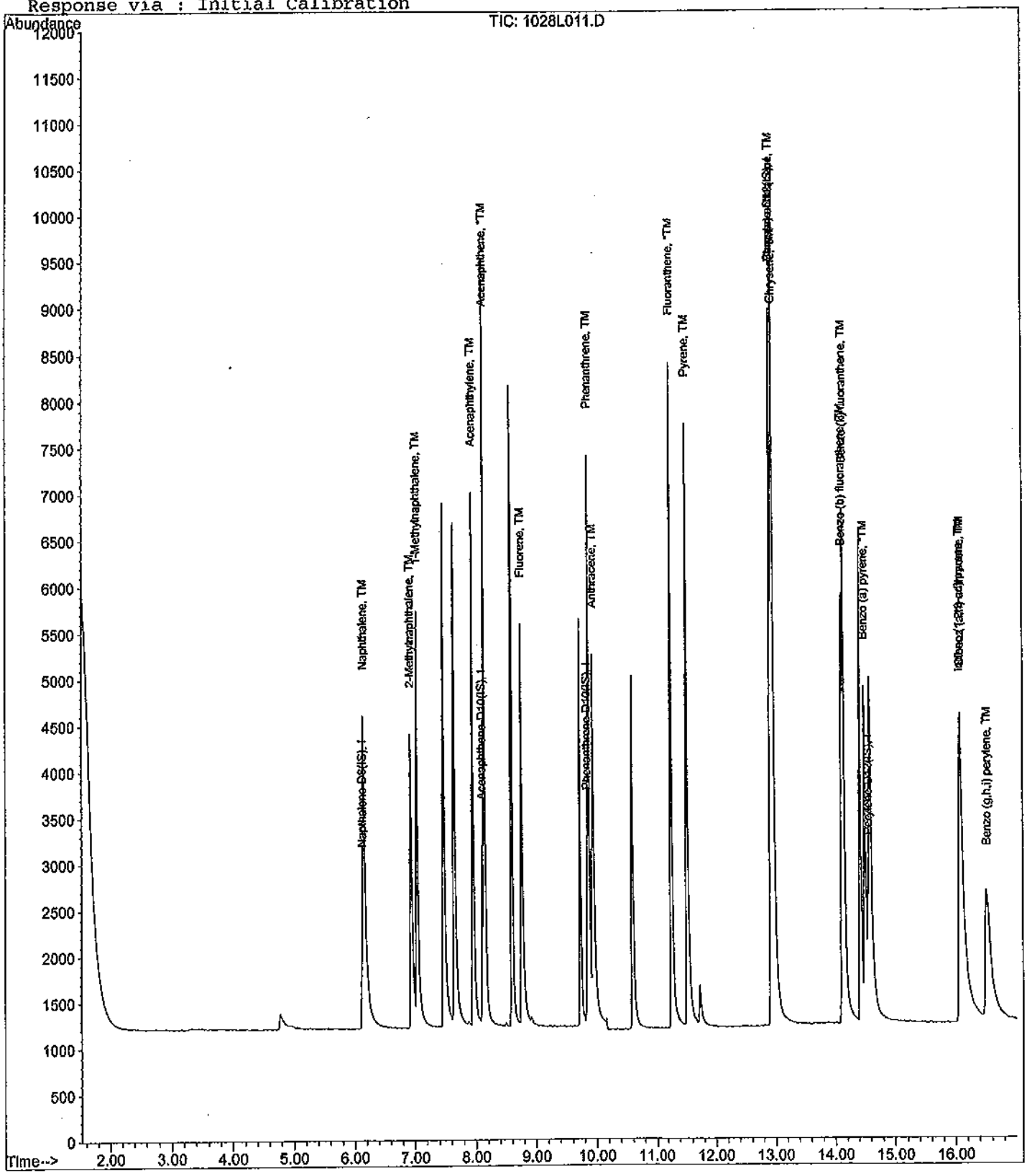
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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

Continuing Calibration

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

SDG No: L6616
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	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		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\1105L020.D Vial: 20
Acq On : 5 Nov 11 16:54 Operator: LF
Sample : 5.0ug/ml PAH 10-27-11 Inst : Linus
Misc : 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						
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

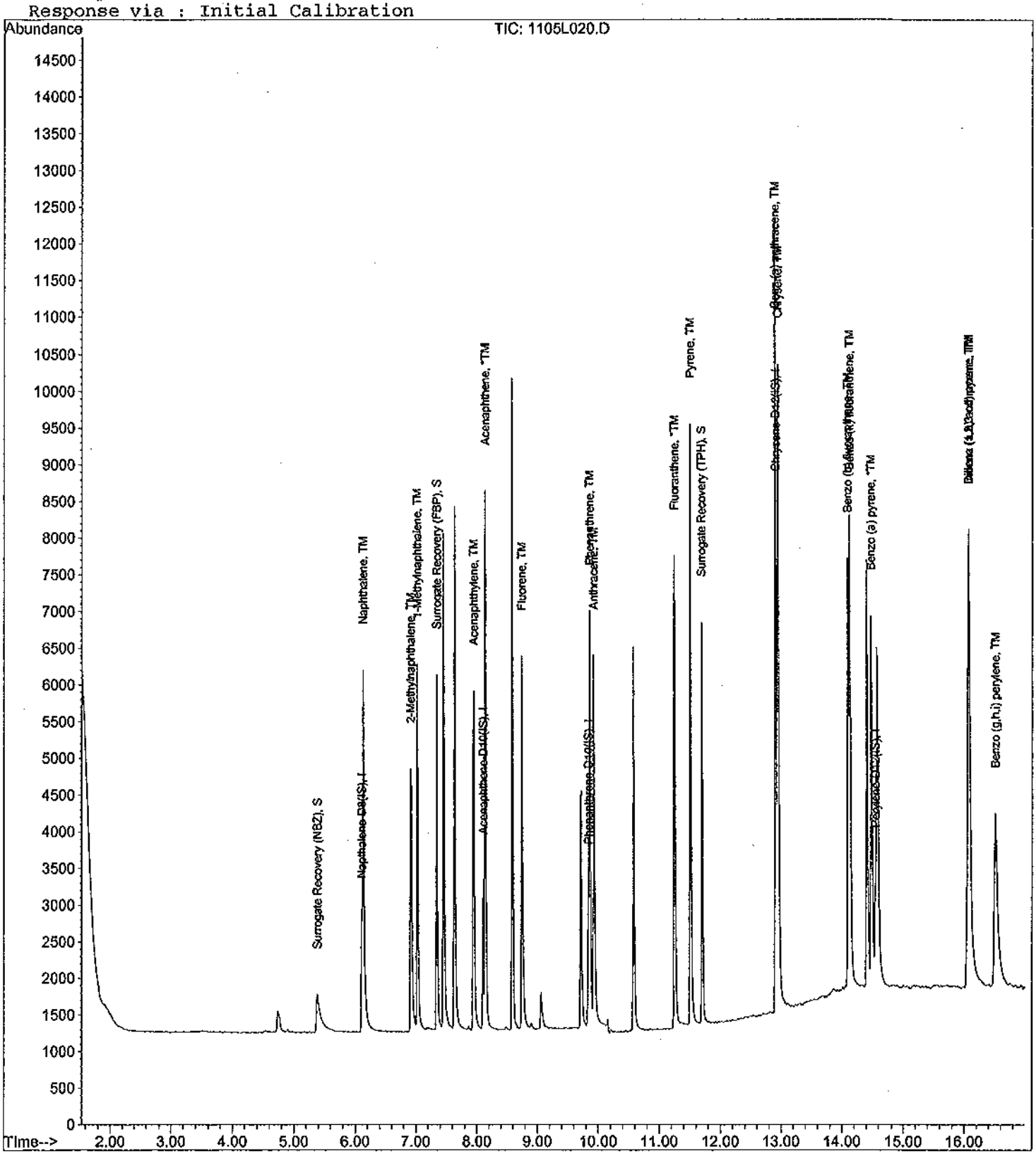
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\1105L020.D Vial: 20
Acq On : 5 Nov 11 16:54 Operator: LF
Sample : 5.0ug/ml PAH 10-27-11 Inst : Linus
Misc : 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

APPL, INC.

Method Blank
EPA 8270D SIM

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

APPL Inc.
908 North Temperance Avenu
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

Quantitation Report (QT Reviewed)

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

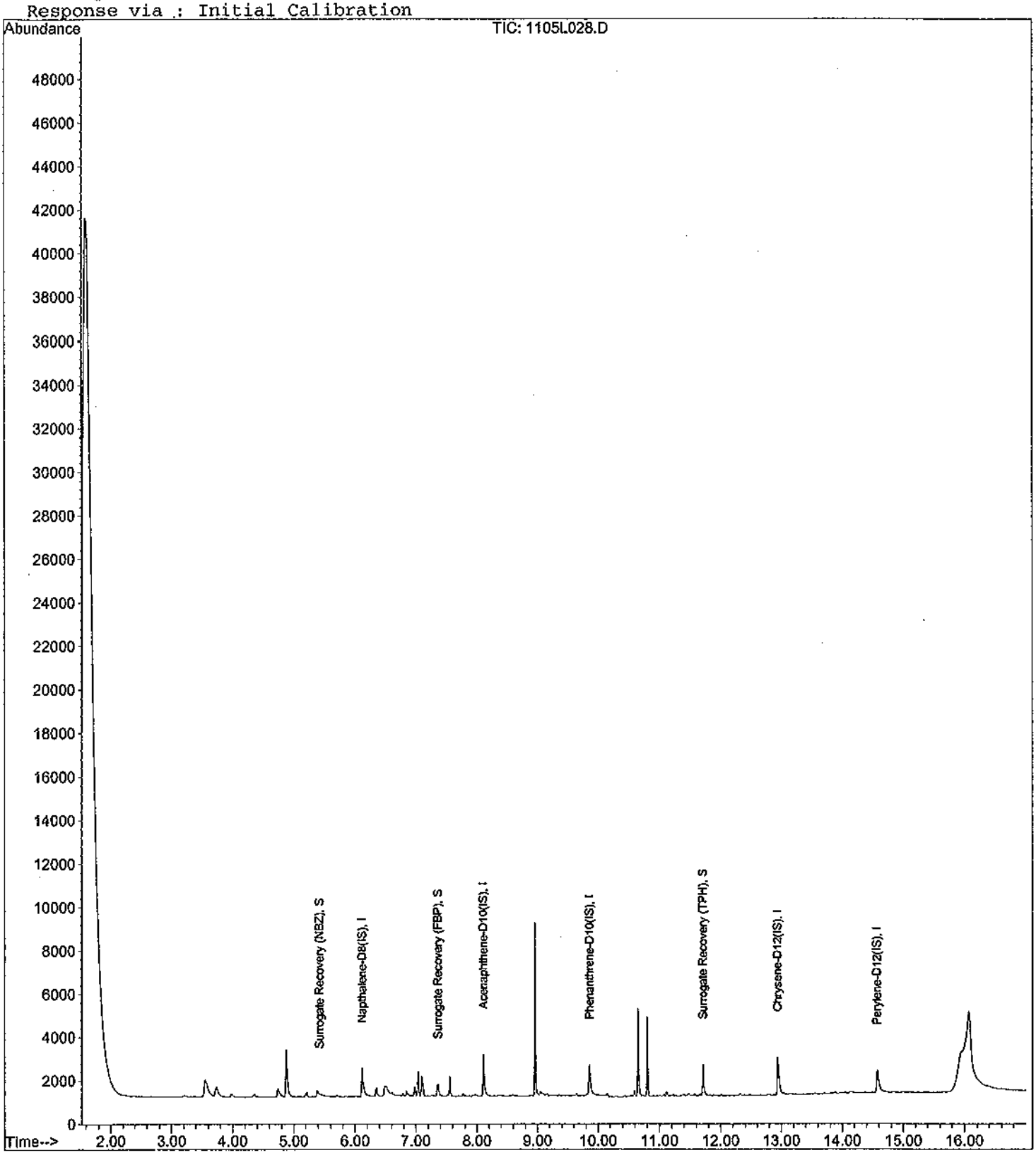
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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

Quantitation Report (QT Reviewed)

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) Napthalene-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

$\frac{3335 \times 2.5}{2079 \times 1.749} = 2.30$ LF 11/9/11

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

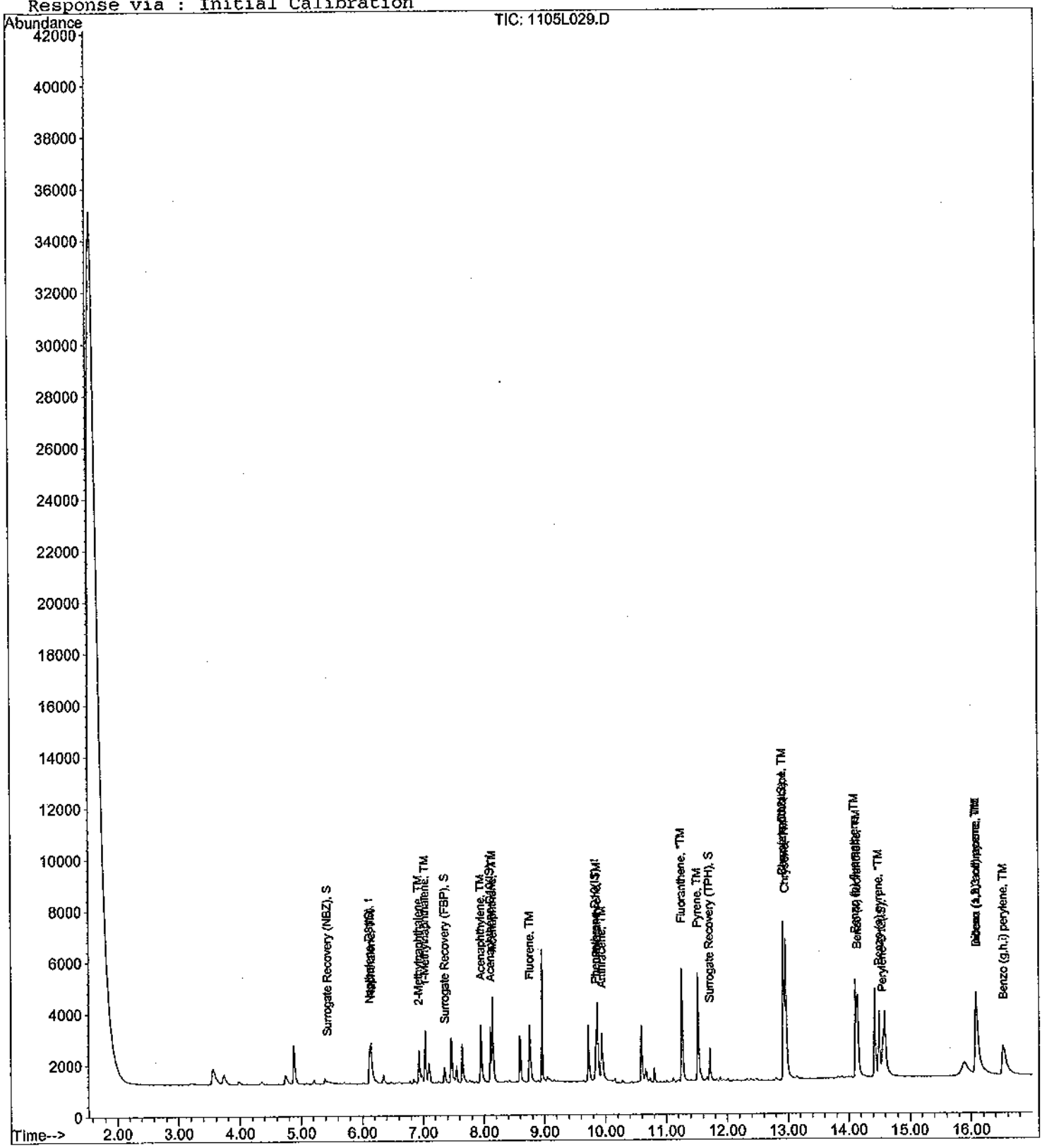
Quantitation Report

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

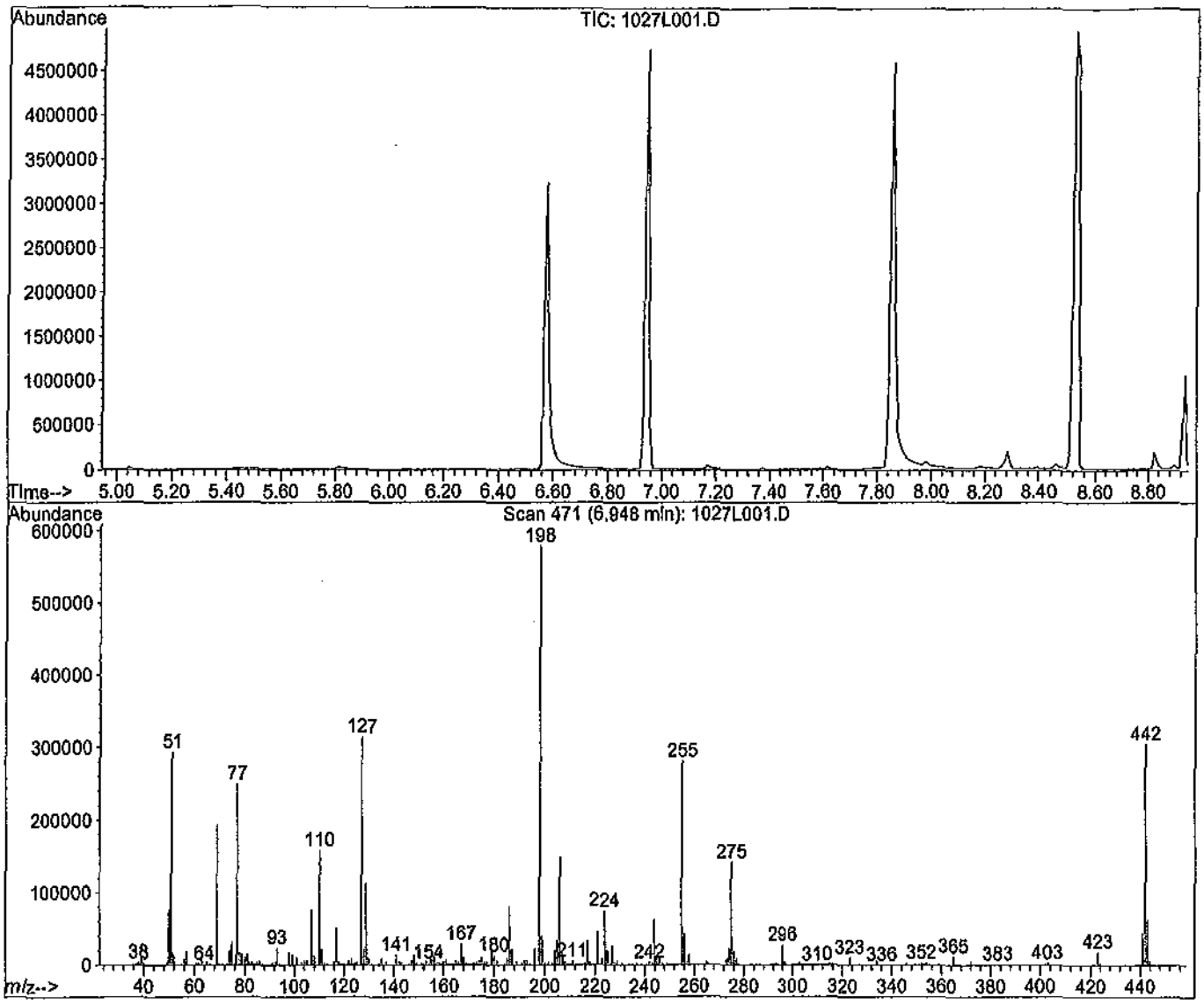


DFTPP

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

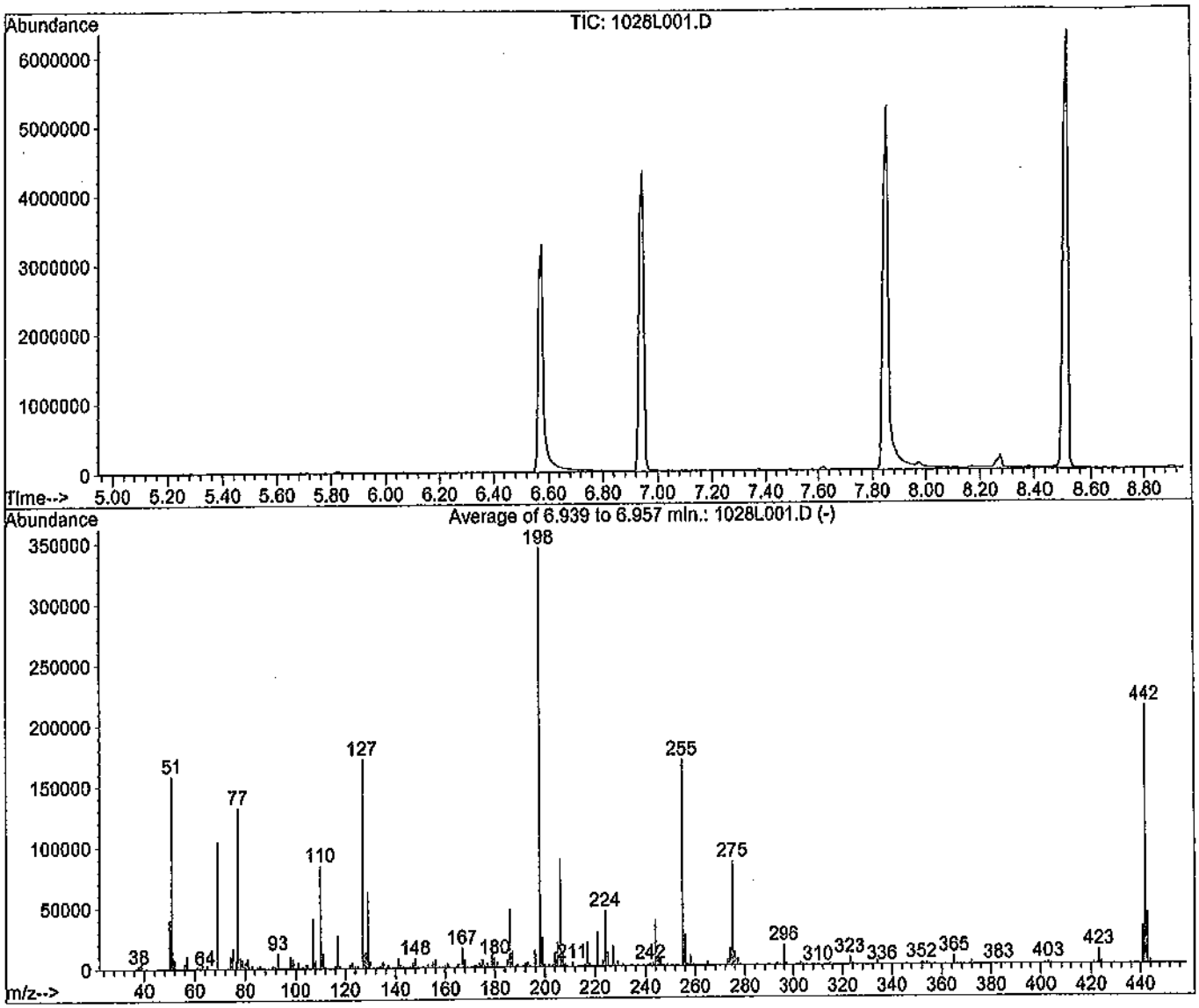
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.7	294016	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	1188	PASS
127	198	40	60	54.3	314624	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	579520	PASS
199	198	5	9	7.0	40304	PASS
275	198	10	30	24.5	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

DFTPP

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



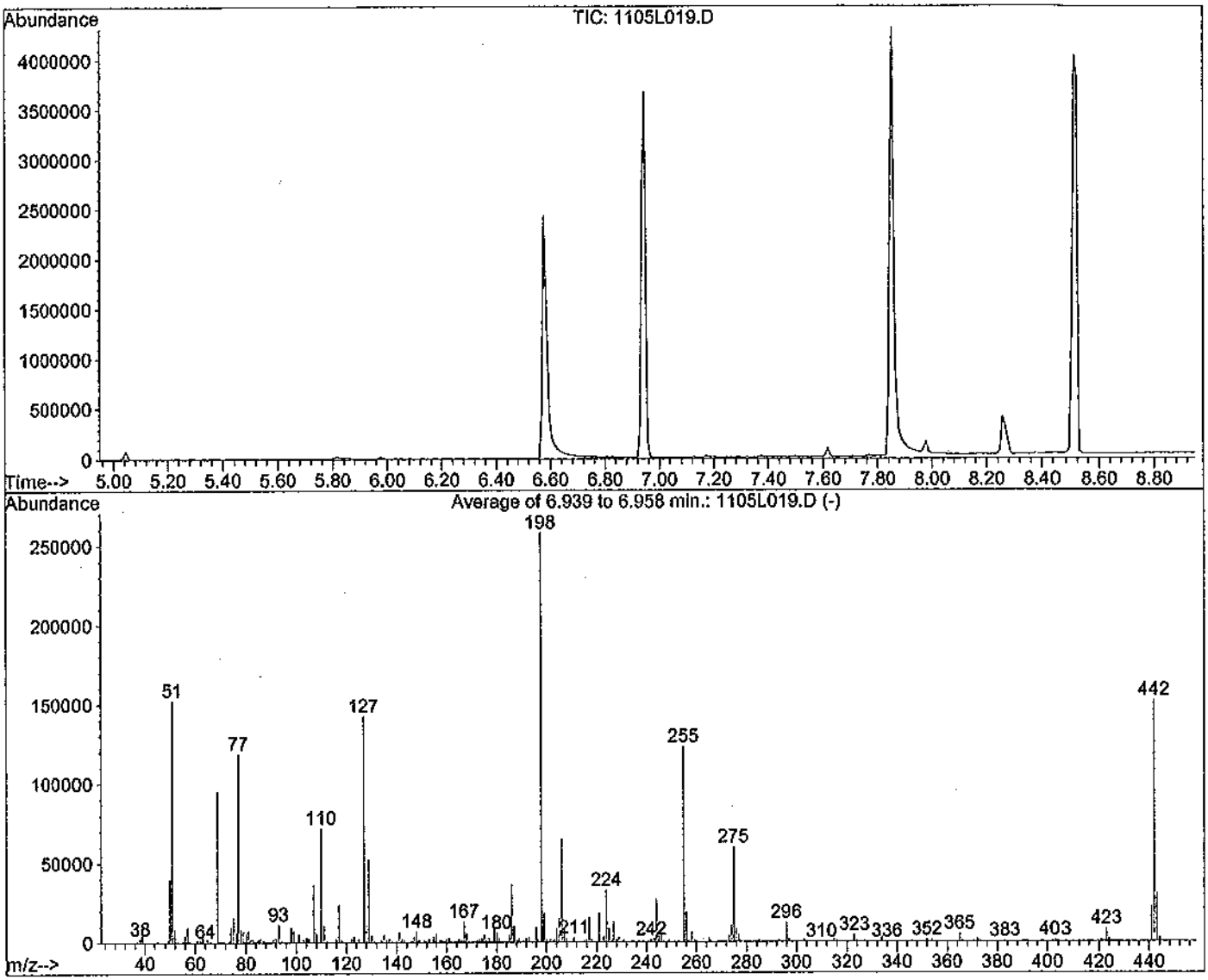
Spectrum Information: Average of 6.939 to 6.957 min.

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 1/17/11

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

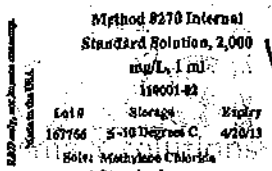
VF 1/25/11

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	
		Conc.		Date														
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date				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	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	

VF 1/25/11

PREP DATE:	01-25-11					
8270 Second Source (SS) 50ug/mL						
						50
		Conc.		Date	CODE:	
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

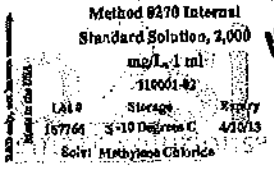
VF 1/25/11



VF exp 1/25/12

8270 Internal Standard
Lot #: 167766 - 28148
Rec: 1/20/11 MFR exp. 04/20/13

VF 1/25/11



VF exp 1/25/12

8270 Internal Standard
Lot #: 167766 - 28147
Rec: 1/20/11 MFR exp. 04/20/13

LF 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 STANDA
Semi-Volatile Standard
Lot #: 052908 - 28001
Rec: 12/16/10 MFR exp. 05/29/11

LF exp 5/29/11

LF 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 STANDA
Semi-Volatile Standard
Lot #: 052908 - 28002
Rec: 12/16/10 MFR exp. 05/29/11

exp 5/29/11

LF 3/23/11

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

LF exp 5/29/11

LF 3/23/11

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 ace
EPA Method 8270A-Mix#11
Lot #: 121010 - 27997
Rec: 12/16/10 MFR exp. 12/10/13
ABSOLUTE STANDAF

LF exp 5/29/11

LF 3/23/11

PREP DATE:	03-23-11					
8270C Stock/Spike Standard						
Exp:	05-29-11					
		Conc.		Date	CODE:	P
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
Absolute	10001	2000	032009-28089	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

LF 3/23/11

91M IS exp 1/25/12
1500µL EM Science MC Lot #47086
100µL 8270 IS opened 1/25/11 exp 1/25/12

UF 3/28/12

o2si smartsolutions — 8270 BN:A (200:400) Surrogate Solution, 1 ml
110004-17 Storage: <= -10 Degrees C
Made in USA Lot No: 160538 Solvent: Methylene Chloride
Exp: 6/10/2013
Date Opened: 8270 BN:A (200:400) Surrogate Solution
Lot #: 160538 - 27574
Rec: 10/18/10 MFR exp. 06/10/12

UF exp 3/28/12

UF 3/28/12

PREP DATE:	03-28-11															
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 Code	Exp.Date				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

UF 3/28/11

PREP DATE:	03-28-11					
8270 Second Source (SS) 50ug/mL						50 UF
		Conc.		Date	CODE:	
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

UF 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, N Kingstown, RI 02852 USA

ULTRA 1 mL

Semi-volatiles GC/MS Tuning Standard
Lot #: CF-2995 - 26131
Rec: 2/17/10 MFR exp. 08/31/11

UF exp 8/31/11

UF 4/13/11

PREP DATE:	04-13-11						
SV Tune Mix 50ug/ml							UF
Exp:	08-31-11						exp 8/31/11
		Conc.		Date	CODE:	B	
Supplier	ID #	µg/mL	Lot #	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	

UF 4/20/11

8270D PAH SIM Solution, 200 mg/L, 1 ml
110780-01
Lot # 170263 Storage <-10 Degrees C Expiry 3/3/13
Solv: Methylene Chloride
Made in the USA

UF exp 4/20/12

8270D PAH SIM
Lot #: 170263 - 28485
Rec: 3/10/11 MFR exp. 3/3/2013

UF 4/20/11

8270D PAH SIM Solution, Second Source, 200 mg/L, 1 ml
110780-01-SS
Lot # 170256 Storage <-10 Degrees C Expiry 3/3/13
Solv: Methylene Chloride
Made in the USA

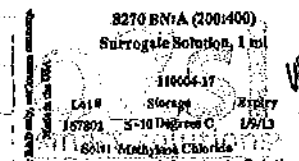
UF exp 4/20/12

8270D PAH SIM (SS)
Lot #: 170256 - 28487
Rec: 3/10/11 MFR exp. 3/3/2013

VF 8/16/11

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 Methonal 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			

VF 8/22/11



VF exp 8/22/12

8270 BN:A (200:400) Surrogate Solution
Lot #: 167802 - 29313
Rec: 8/8/11 MFR exp: 01/09/13

VF 8/22/11

PREP DATE:	08-22-11												
8270 STANDARD CURVE													
Exp:	08-29-11						5	10	20	40	50	60	80	100
Supplier	ID #	Conc. µg/mL	Lot #	Date 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	50
EM Science	Methylene Chloride		47186				190	90	80	60	50	40	20	0
						Final Vol.	200	100	100	100	100	100	100	100

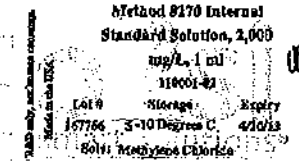
VF 8/22/11

PREP DATE:	08-22-11					
8270 Second Source (86) 50ug/mL						
						50
Supplier	ID #	Conc. µg/mL	Lot #	Date Code	CODE: Exp.Date	µL
	8270C SS	200		10/06/10	10-06-11	25
EM Science	Methylene Chloride		47186			75
					Final Vol.	100

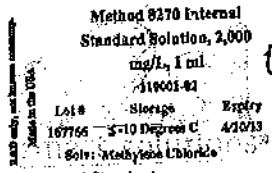
VF 8/21/11

PREP DATE:	09-21-11												
8270 SIM STANDARD CURVE													
						0.10	0.20	0.50	1.00	5.00	10.00	50.00	100.00
Supplier	ID #	Conc. µg/mL	Lot #	Date Code	CODE: Exp.Date	A µL	A µL	C µL	D µL	E µL	F µL	G µL	H 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

LF 10/18/11



8270 Internal Standard
Lot #: 167766 - 28149
Rec: 1/20/11 MFR exp. 04/20/13



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
ULTRA 1 mL
Semi-Volatiles GC/MS Tuning Standard
4 analyte(s) at 1000 µg/mL in dichloromethane
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

exp 10/27/12

50µg/mL SV Tune Mix 1mL of GCM-150-1 Lot# CH2137 into 19mL of Gas Science MC Lot# 42080.

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
		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

LF 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		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	60	80	100
		Conc.		Date									
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

LF 11/8/11

PREP DATE:	11-08-11					
8270 Second Source (SS) 50ug/mL						
						50
		Conc.		Date	CODE:	
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

_SEP004S

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	0/31/2011 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 Blk				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	JL
Date	11/5/11
Time	800
Refrigerator	Hblank

	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	SBP004S	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	0/31/2011 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
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	JL
Date	11/1/11
Time	800
Refrigerator	Hood

	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\L111027\

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

APPL, INC.

EPA METHOD 8260B
Volatile Organic Compounds
QC Summary

APPL, INC.

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **111031W-49559 - 161078**
Batch ID: #86RHB-111031AC

APPL Inc.
908 North Temperance Avenu
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 Avenu
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

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: 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: _____

Primary	SPK
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:

Primary	SPK
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

APPL ID.	Client Sample No.	File ID.	Date Analyzed
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

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				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	21.0
75	30 - 60% of mass 95	47.5
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	7.0
173	0 - 2% of mass 174	0.3
174	50 - 100% of mass 95	82.2
175	5 - 9% of mass 174	7.8
176	95 - 101% of mass 174	99.0
177	5 - 9% of mass 176	7.3

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							
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 8260B
Volatile Organic Compounds
Sample Data

APPL, INC.

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

Printed: 12/06/11 6:14:21 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: 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

Quantitation Report (QT Reviewed)

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

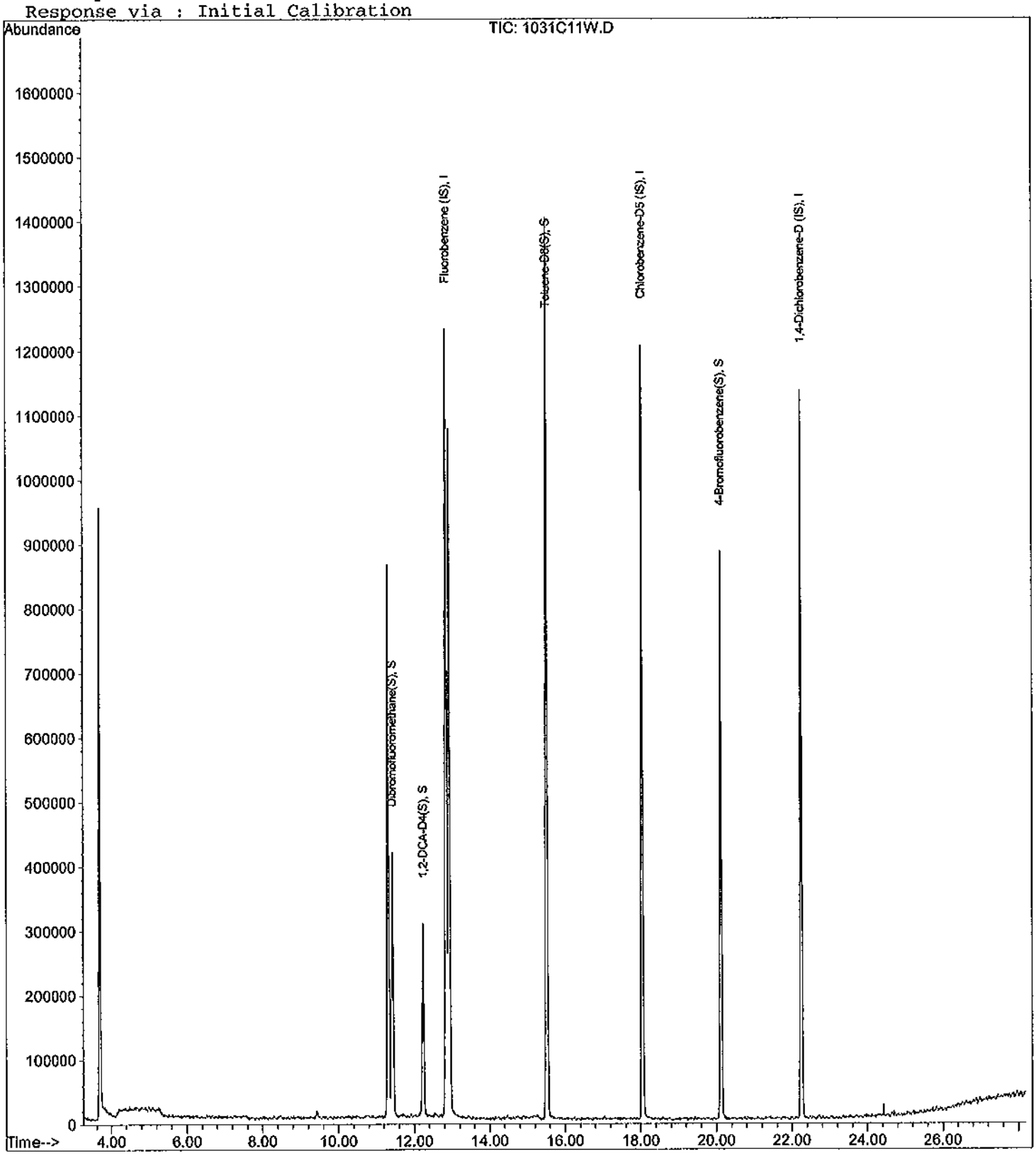
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (QT Reviewed)

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

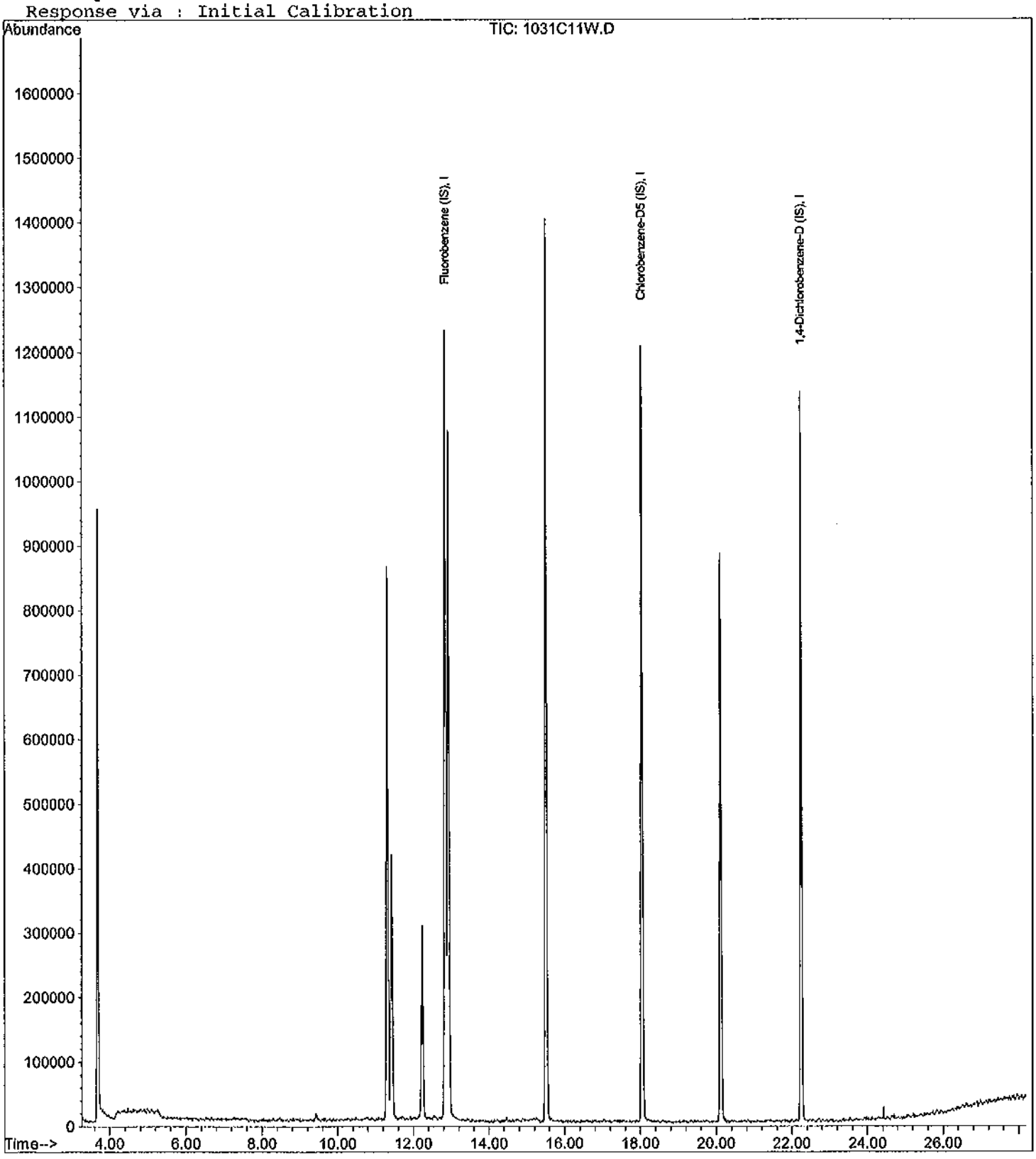
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 6:14:21 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
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

Quantitation Report (QT Reviewed)

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

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

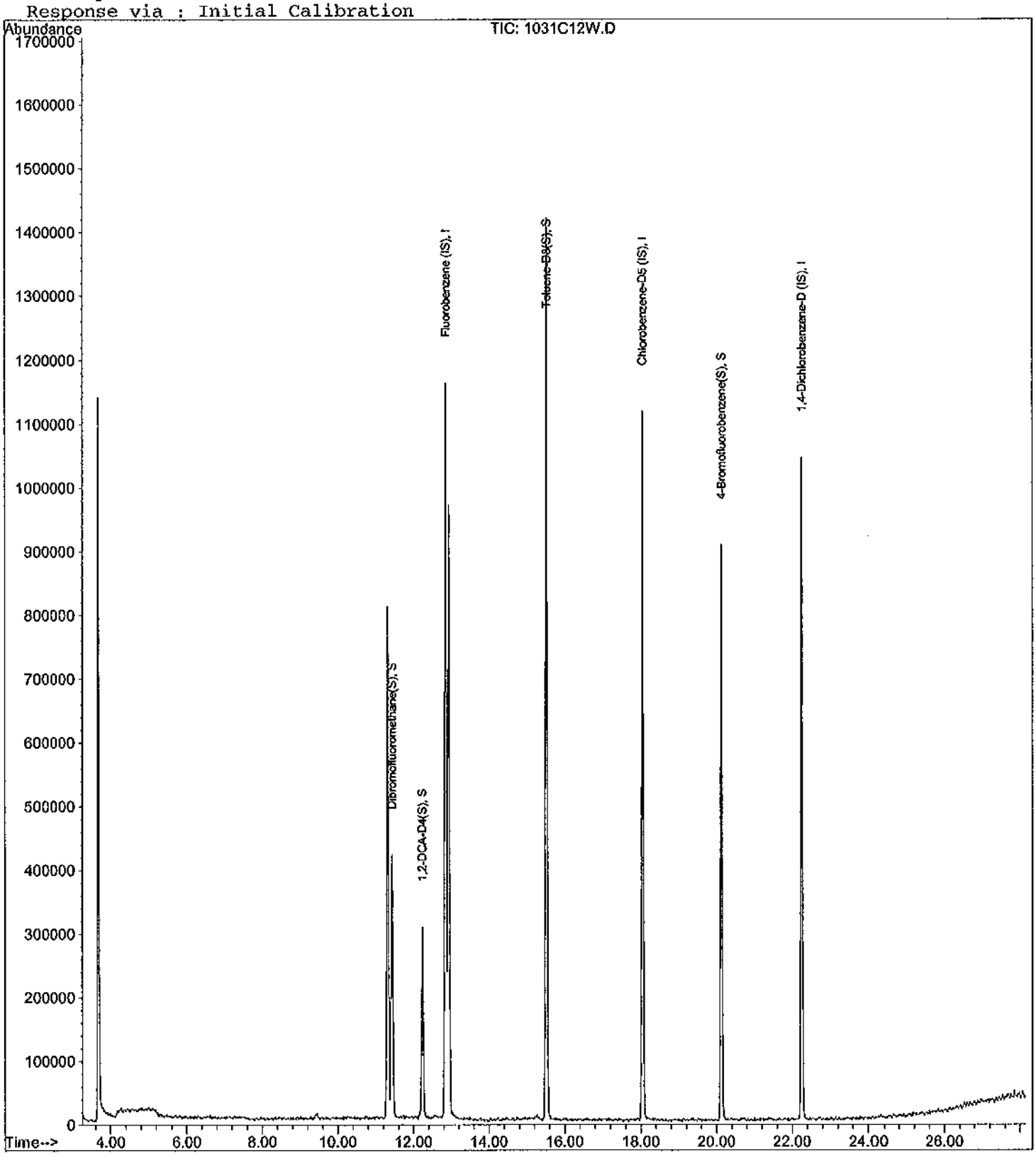
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (QT Reviewed)

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

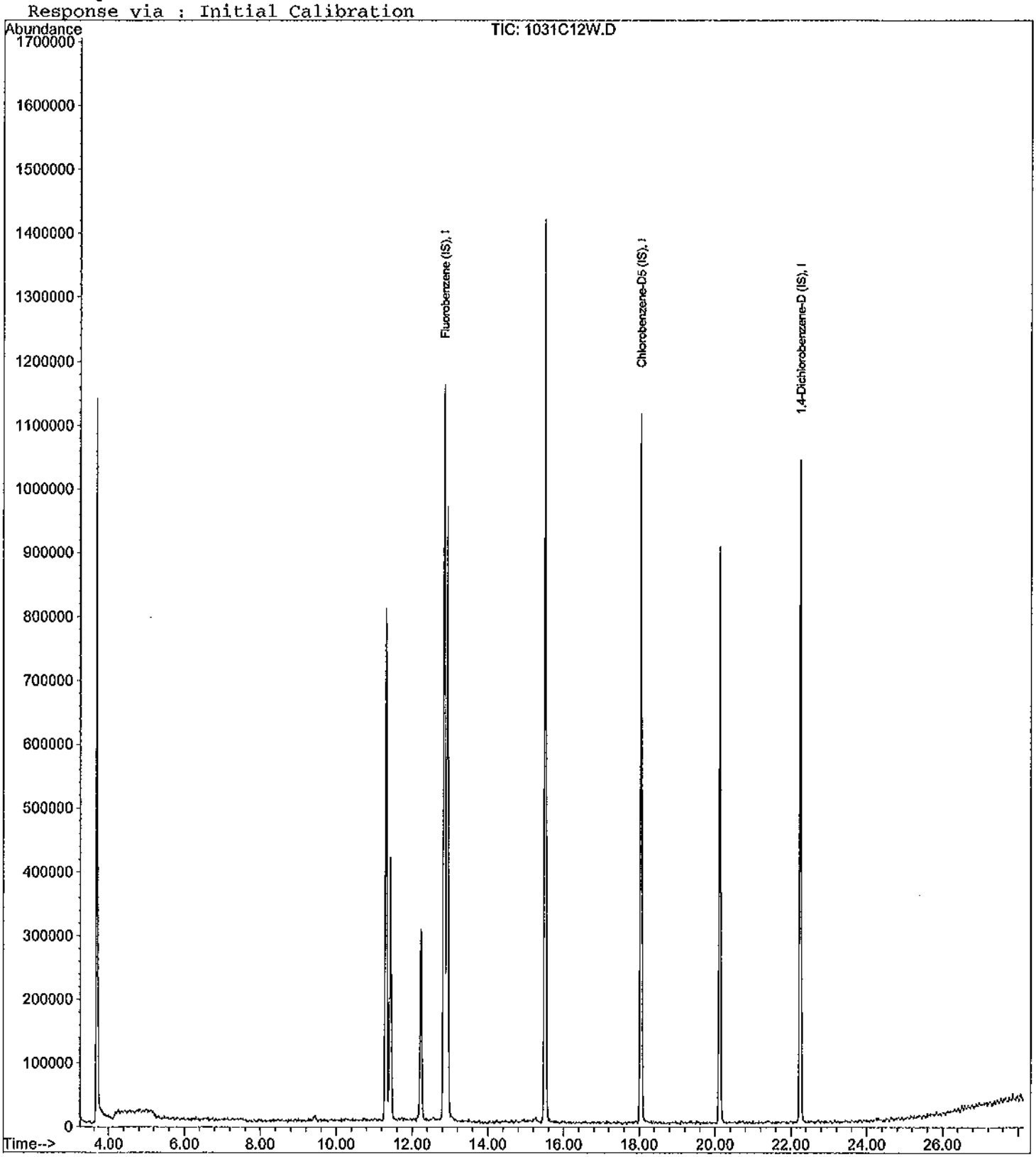
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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

Attn: Stacey Fineran
Project: RED HILL/1022-024
Sample ID: ES052
Sample Collection Date: 10/25/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

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

Printed: 12/06/11 6:14:21 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: 66116

Sample ID: ES052

APPL ID: AY49483

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-	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

Quantitation Report (QT Reviewed)

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

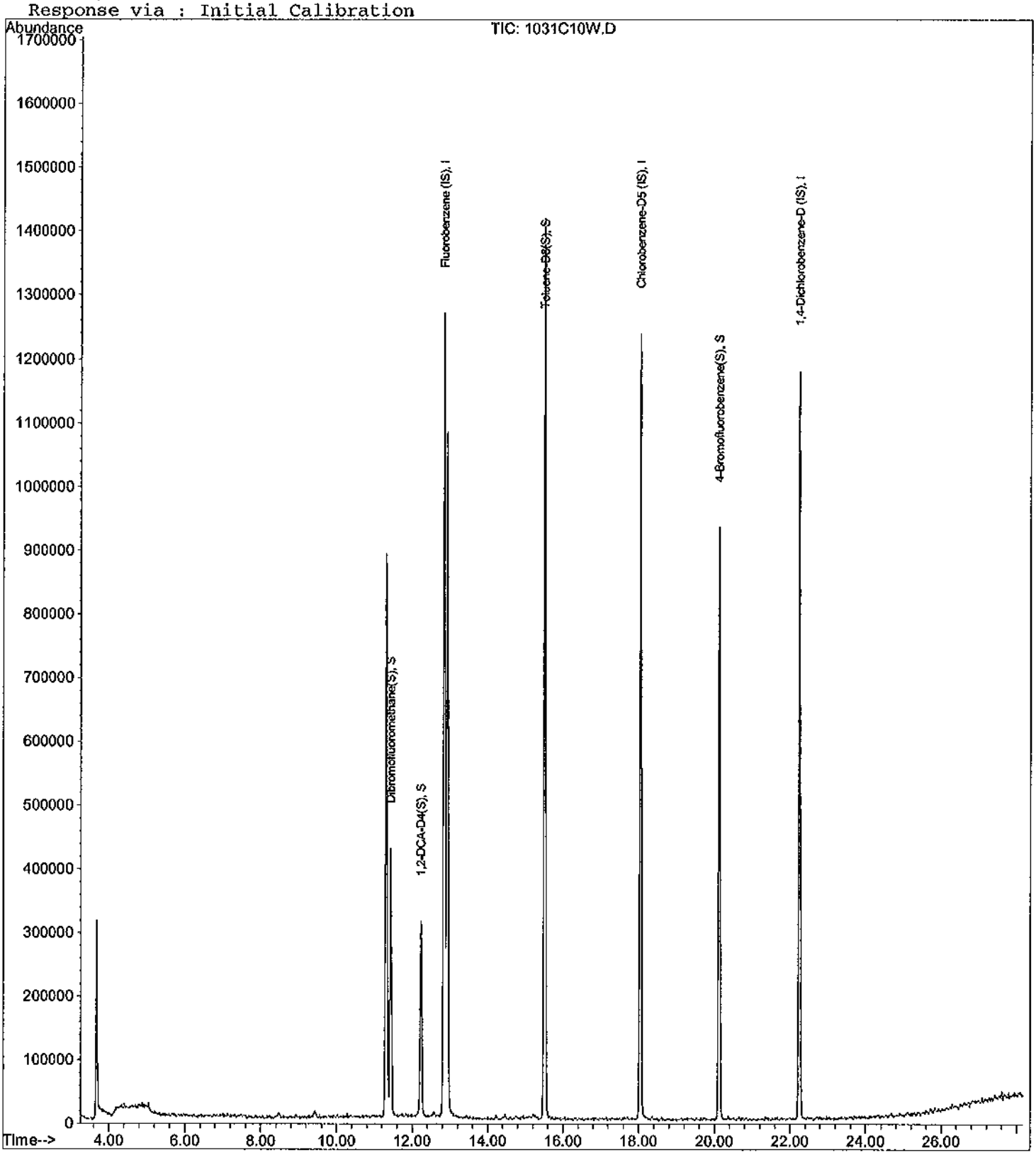
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (QT Reviewed)

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

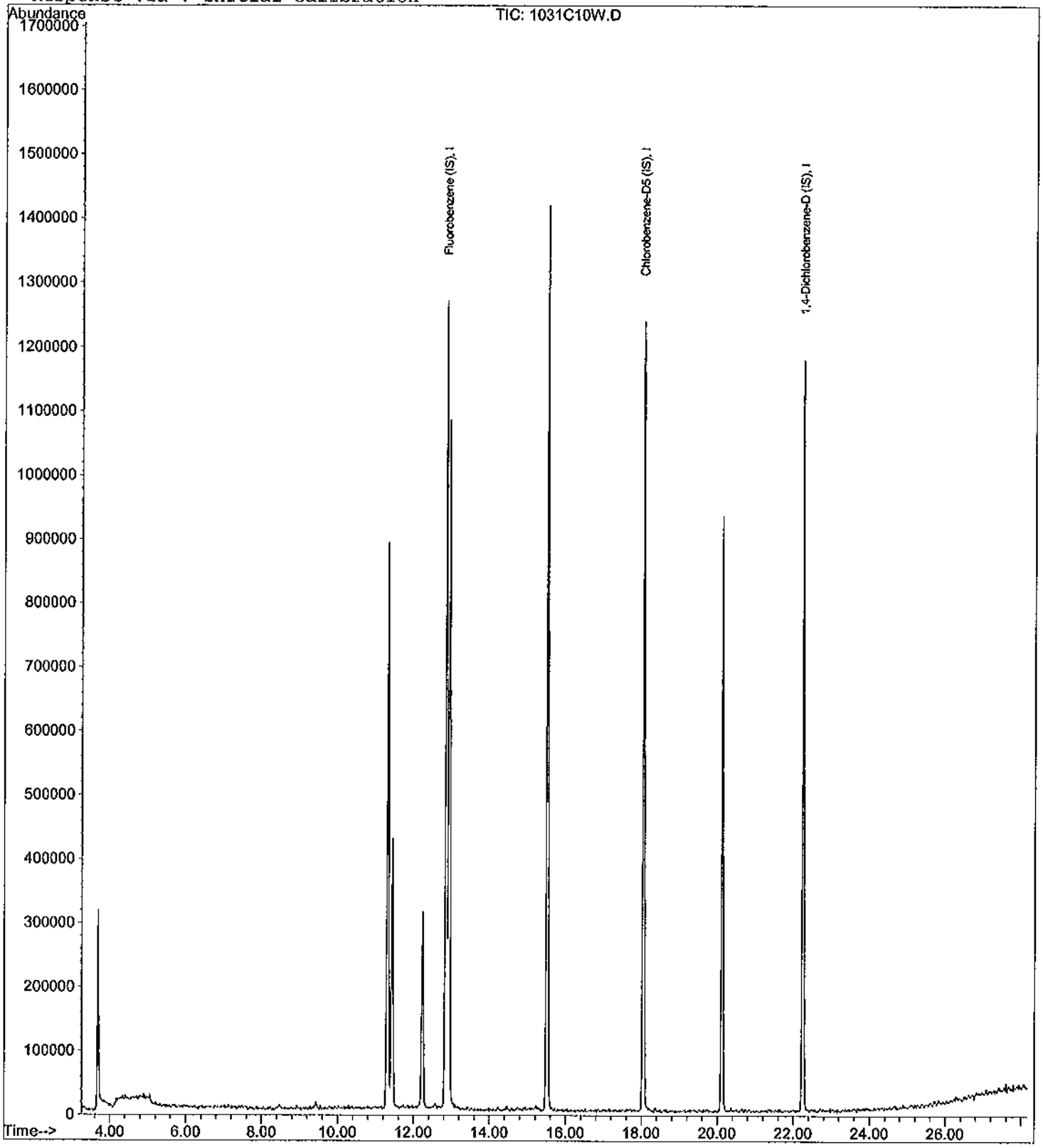
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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: 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	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

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:

		Compound	0.3	0.5	1	2	5	10	20	40	100		Avg	%RSD		r
71	I	1,4-Dichlorobenzene-D (IS)	ISTD													
72	TM	MIBK (methyl isobutyl ketone)		0.7574	0.8768	0.8241	0.6092	0.6987	0.6391	0.6372	0.6432		0.71	14	TM	
73	TM	Isopropylbenzene	9.699	9.039	9.300	9.316	9.115	9.225	9.084	8.340	8.429		9.1	4.7	TM	
74	TM**	1,1,2,2-Tetrachloroethane	0.7160	0.6740	0.7118	0.7852	0.7159	0.8359	0.8186	0.7717	0.7972		0.76	7.4	TM**	
75	TML	1,2,3-Trichloropropane		0.1080	0.1466	0.0826	0.0875	0.1024	0.0817	0.0773	0.0871		0.10	24	TML	0.999
76	TM	t-1,4-Dichloro-2-Butene			0.1384	0.1583	0.1653	0.1826	0.1817	0.1785	0.1992		0.17	12	TM	
77	TM	Bromobenzene	2.191	2.293	2.136	2.173	2.073	2.079	2.023	1.887	1.956		2.1	6.0	TM	
78	TM	n-Propylbenzene	10.7	10.8	11.2	11.8	11.0	11.1	10.9	9.840	10.0		11	5.5	TM	
79	TM	4-Ethyltoluene	8.877	7.431	7.642	7.504	7.338	7.570	7.245	6.748	6.966		7.5	8.0	TM	
80	TM	2-Chlorotoluene	7.018	7.963	7.290	7.456	7.317	7.299	7.188	6.487	6.411		7.2	6.7	TM	
81	TM	1,3,5-Trimethylbenzene	7.727	7.461	7.573	7.610	7.521	7.220	7.414	6.796	6.911		7.4	4.4	TM	
82	TM	4-Chlorotoluene	6.723	5.915	6.587	6.584	6.067	6.161	6.027	5.579	5.836		6.2	6.3	TM	
83	TM	Tert-Butylbenzene	7.797	8.301	7.989	8.311	8.009	8.197	8.168	7.421	7.513		8.0	4.1	TM	
84	TM	1,2,4-Trimethylbenzene	9.214	8.117	7.974	7.683	7.602	7.509	7.430	6.744	6.901		7.7	9.4	TM	
85	TM	Sec-Butylbenzene	9.285	9.224	9.540	9.998	9.615	10.0	10.0	9.119	9.181		9.6	3.9	TM	
86	TM	p-Isopropyltoluene	8.163	8.064	7.913	8.723	8.266	8.400	8.451	7.803	7.874		8.2	3.7	TM	
87	TM	Benzyl Chloride	1.279	1.152	0.9338	1.032	1.032	1.034	1.076	1.092	1.146		1.1	9.0	TM	
88	TM	1,3-DCB	4.734	4.325	4.213	4.479	4.312	4.203	4.279	3.938	3.986		4.3	5.6	TM	
89	TM	1,4-DCB	4.442	3.837	3.983	4.080	3.868	4.040	3.960	3.691	3.802		4.0	5.5	TM	
90	TML	Hexachloroethane		0.4249	0.7118	0.7588	0.9050	1.121	1.321	1.363	1.564		1.0	38	TML	0.999
91	TM	n-Butylbenzene	8.074	7.623	7.277	7.189	6.988	7.038	7.040	6.417	6.597		7.1	7.0	TM	
92	TM	1,2-DCB	3.608	3.335	3.210	3.537	3.348	3.563	3.491	3.215	3.291		3.4	4.5	TM	
93	TML	1,2-Dibromo-3-chloropropane			0.0874	0.0872	0.1047	0.1419	0.1157	0.1281	0.1388		0.11	20	TML	0.999
94	TM	1,2,4-Trichlorobenzene	2.498	2.793	2.514	2.479	2.457	2.481	2.418	2.256	2.277		2.5	6.3	TM	
95	TM	Hexachlorobutadiene		0.5819	0.4282	0.4193	0.3927	0.4607	0.4714	0.4161	0.4105		0.45	13	TM	
96	TM	Naphthalene	3.183	3.265	3.072	3.033	2.834	3.138	3.029	2.875	2.927		3.0	4.7	TM	
97	TM	1,2,3-Trichlorobenzene	1.684	1.977	1.763	2.168	1.821	1.952	1.854	1.766	1.787		1.9	7.9	TM	
98	TML	Dibromochlorobenzene													TML	
99																
100																
101																
102																
103																
104																
105																

Quantitation Report (Not Reviewed)

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						
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

Quantitation Report (Not Reviewed)

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
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

Quantitation Report (Not Reviewed)

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

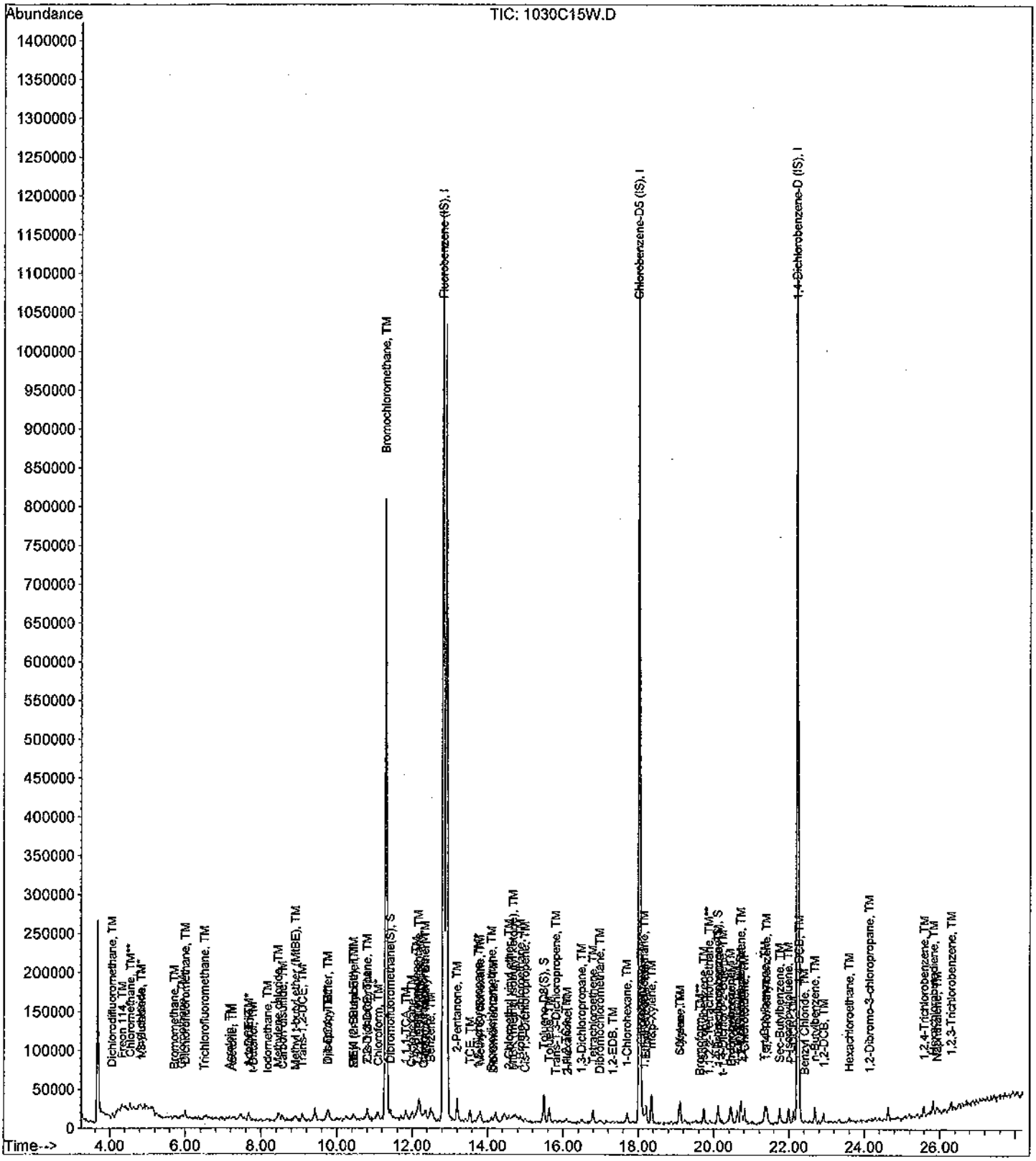
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (Not Reviewed)

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							Qvalue
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

Quantitation Report (Not Reviewed)

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

Quantitation Report (Not Reviewed)

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

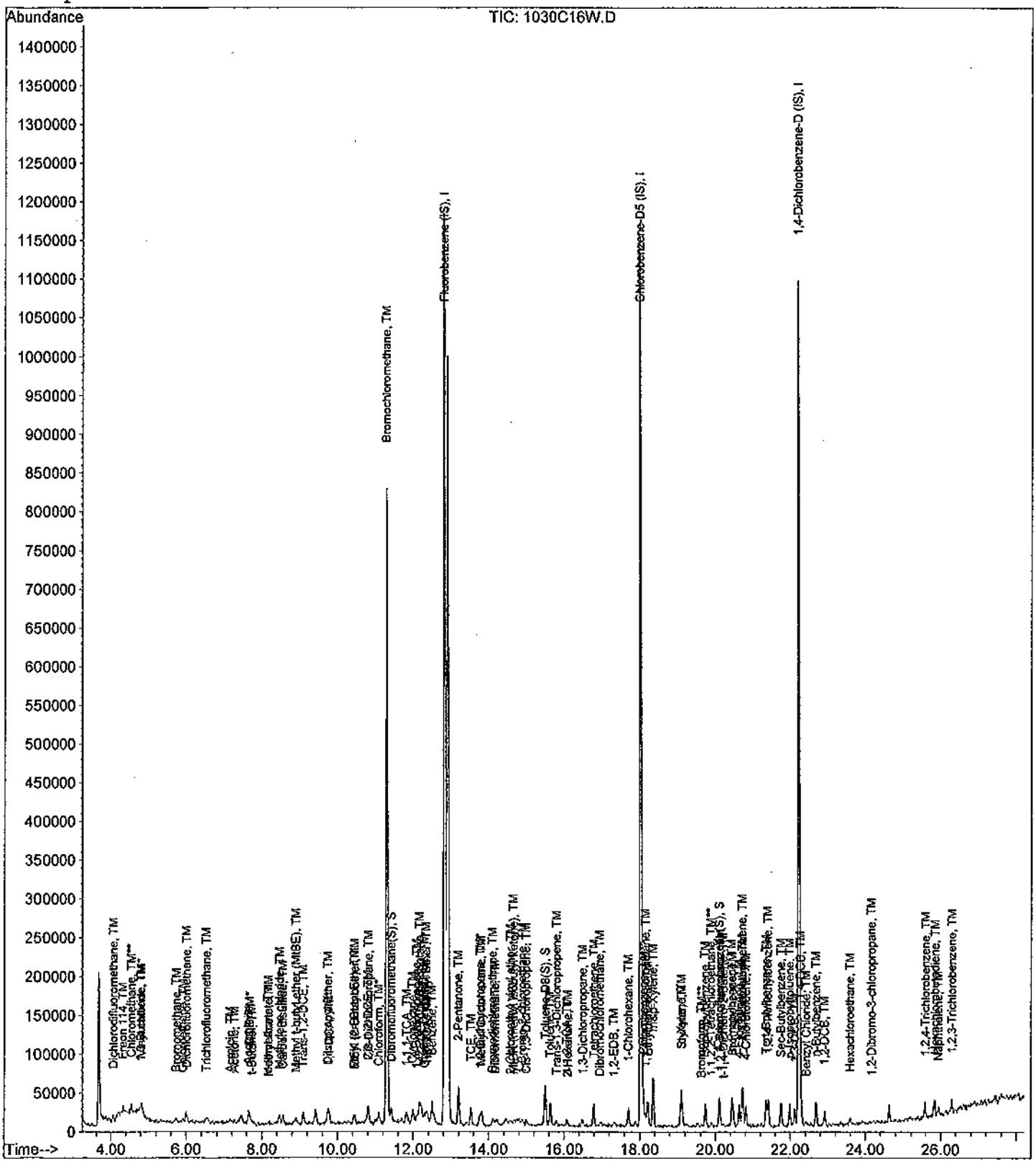
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (Not Reviewed)

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

Quantitation Report (Not Reviewed)

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
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

Quantitation Report (Not Reviewed)

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

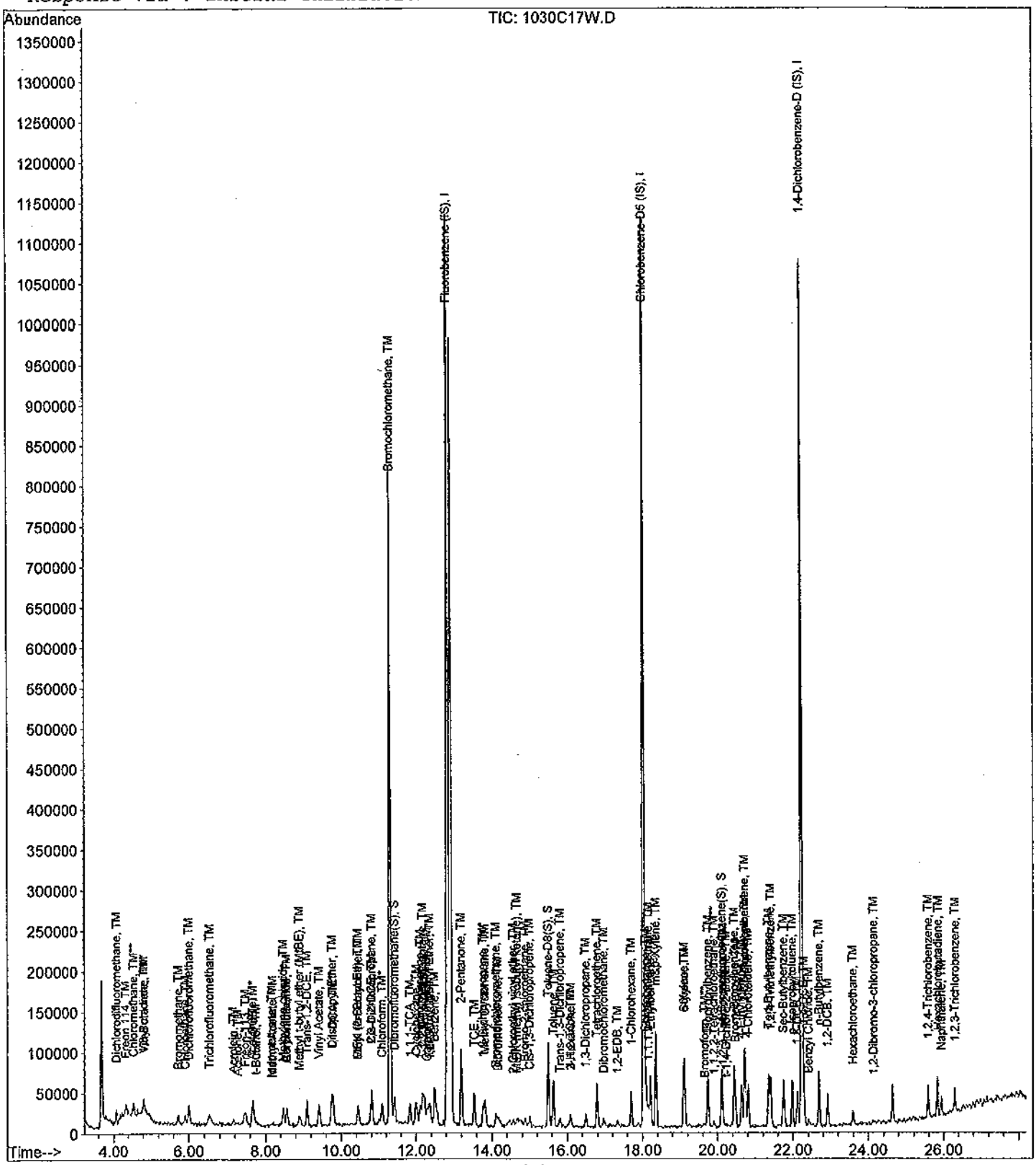
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (Not Reviewed)

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							Qvalue
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

Quantitation Report (Not Reviewed)

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

Quantitation Report (Not Reviewed)

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

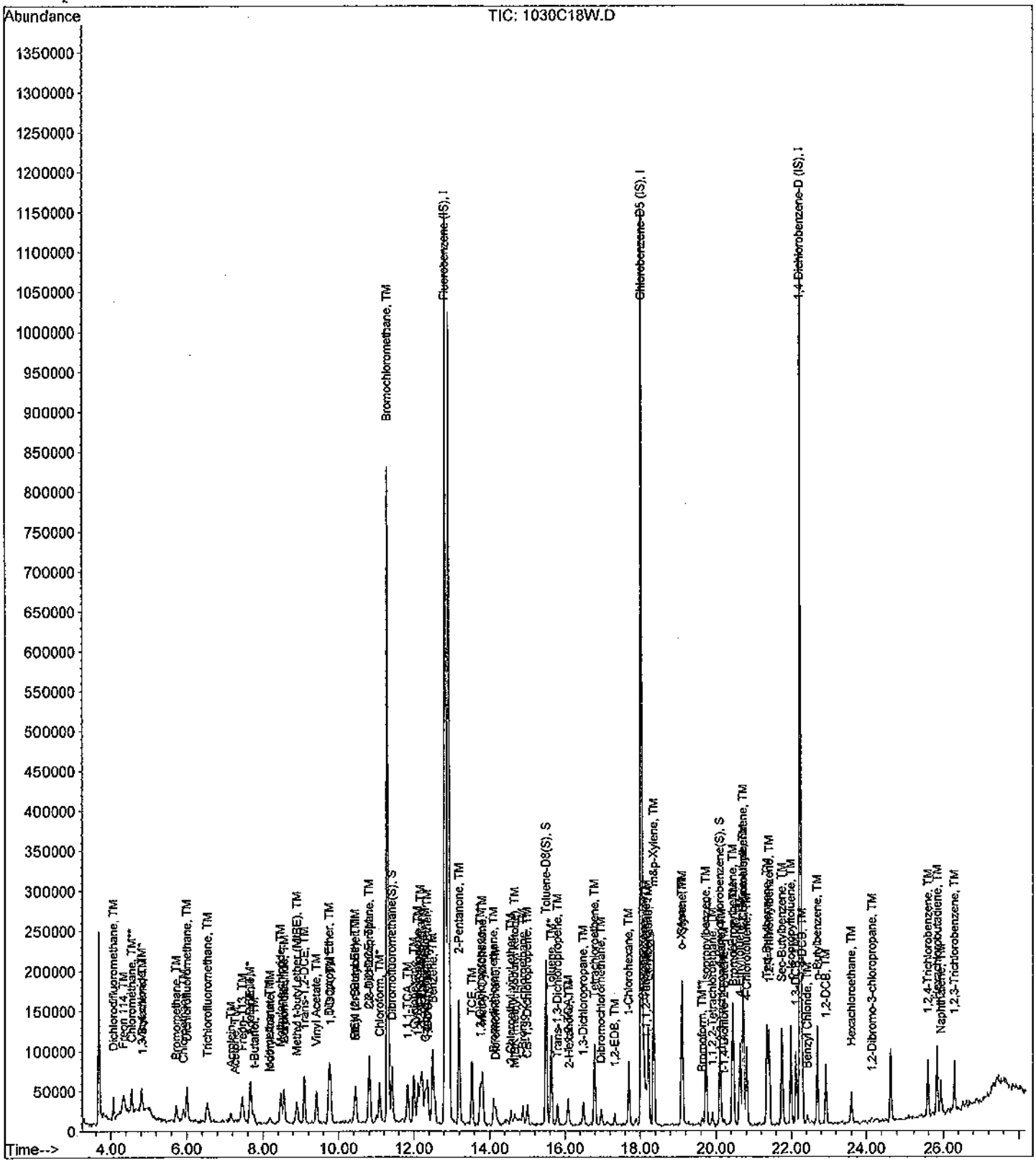
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (Not Reviewed)

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							
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							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

Quantitation Report (Not Reviewed)

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
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

Quantitation Report (Not Reviewed)

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

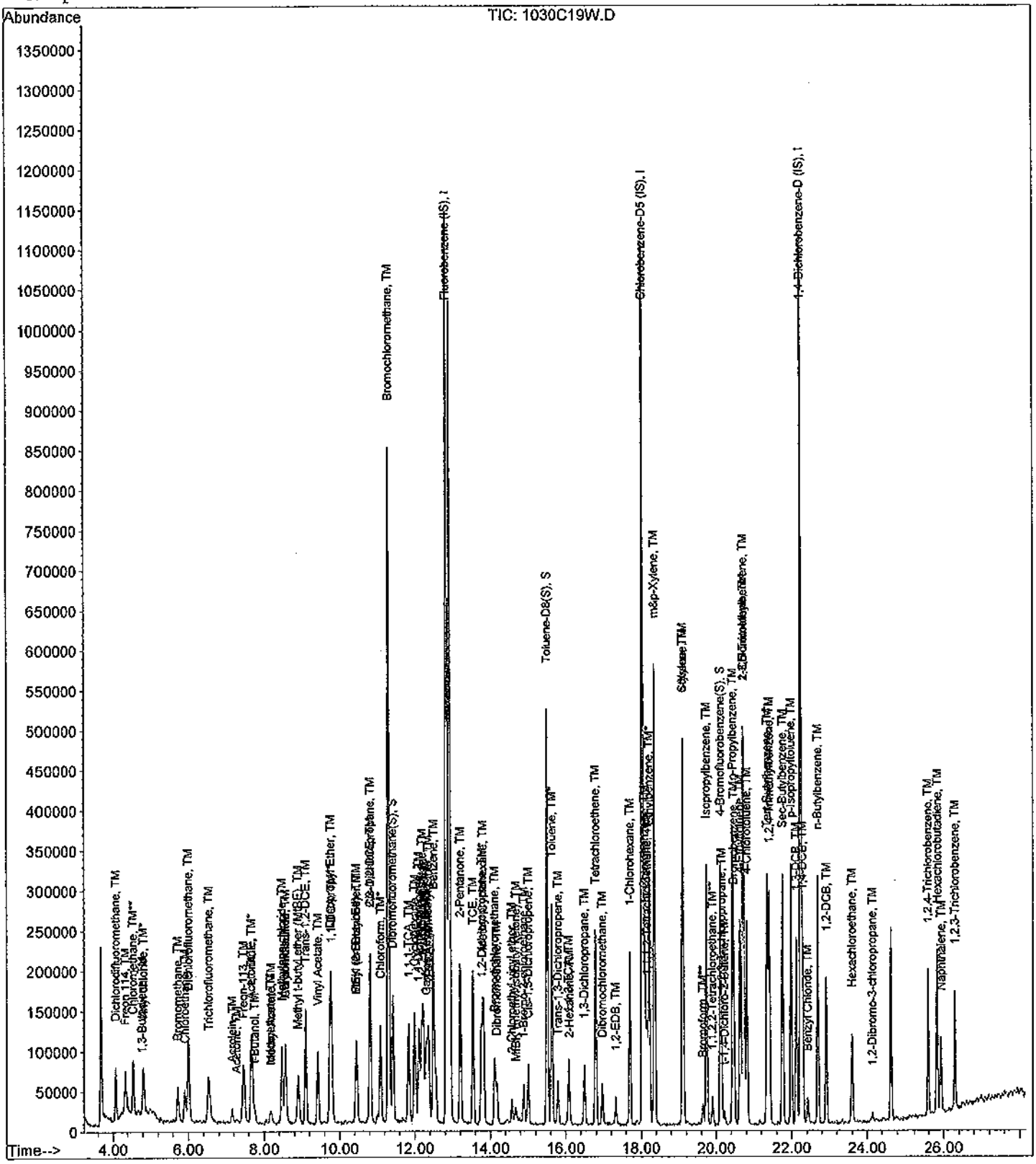
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (Not Reviewed)

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						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

Quantitation Report (Not Reviewed)

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
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

Quantitation Report (Not Reviewed)

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

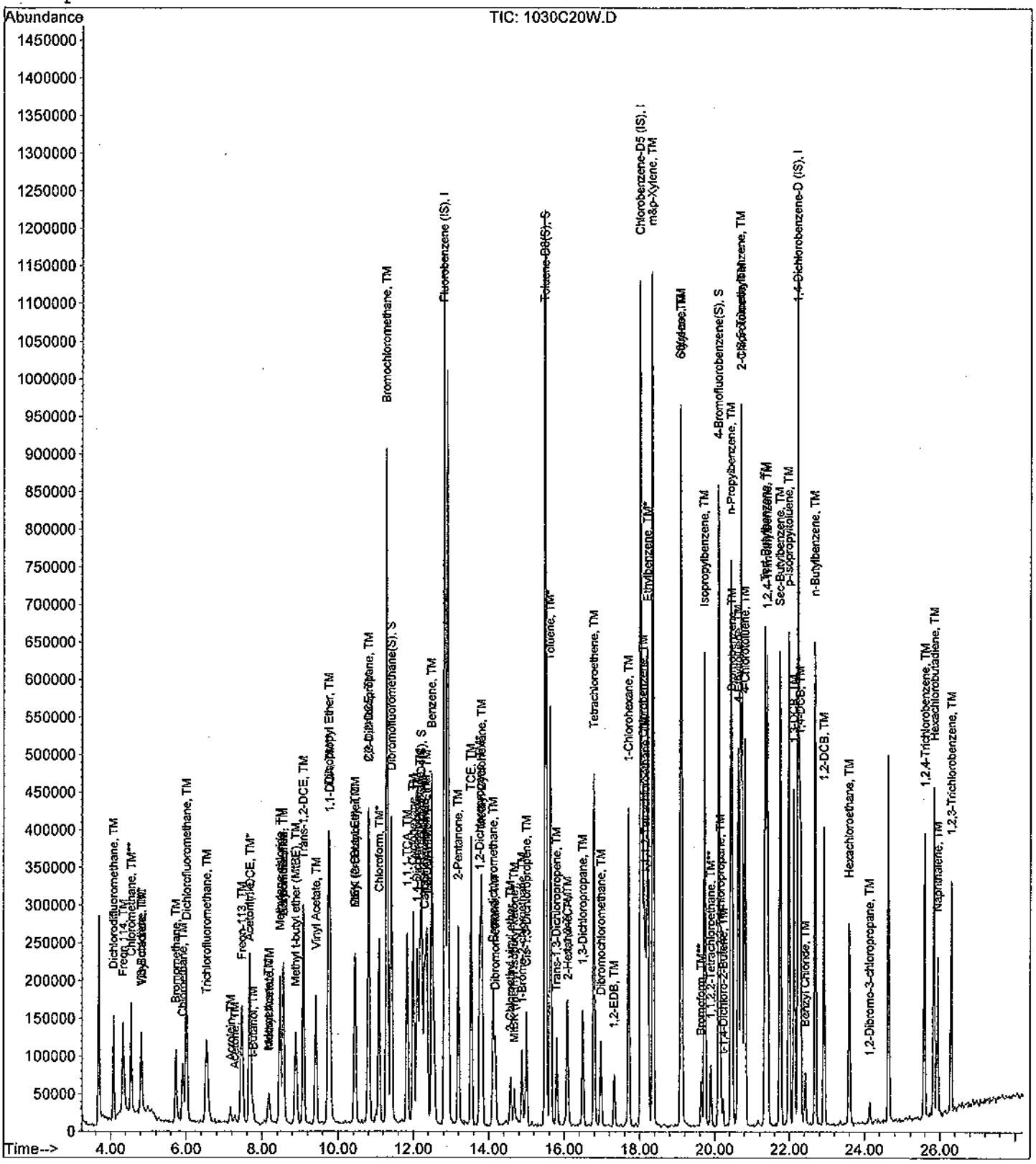
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (Not Reviewed)

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

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

Quantitation Report (Not Reviewed)

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)	1,1,2,2-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

Quantitation Report (Not Reviewed)

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

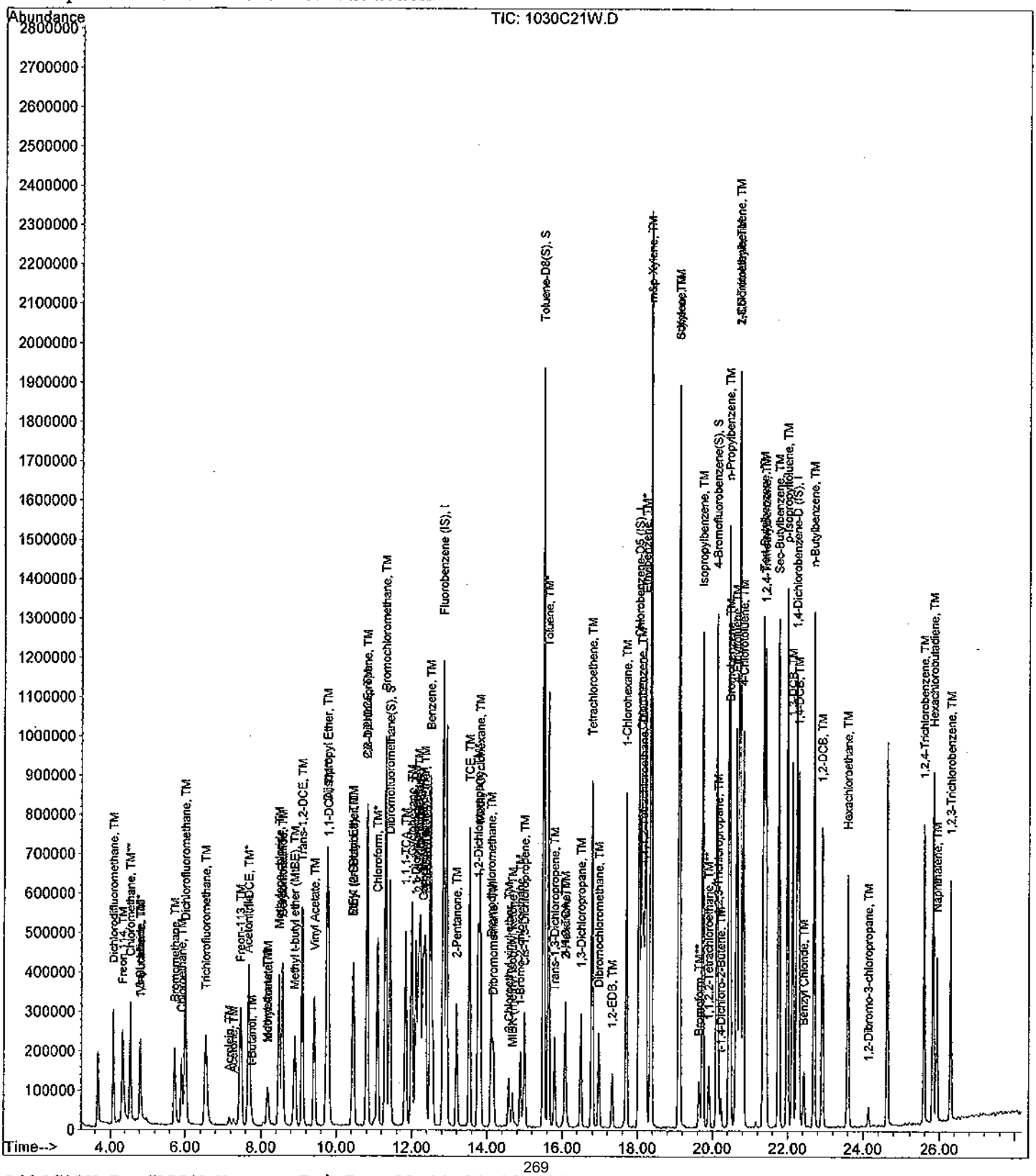
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (Not Reviewed)

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							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

Quantitation Report (Not Reviewed)

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
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

Quantitation Report (Not Reviewed)

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

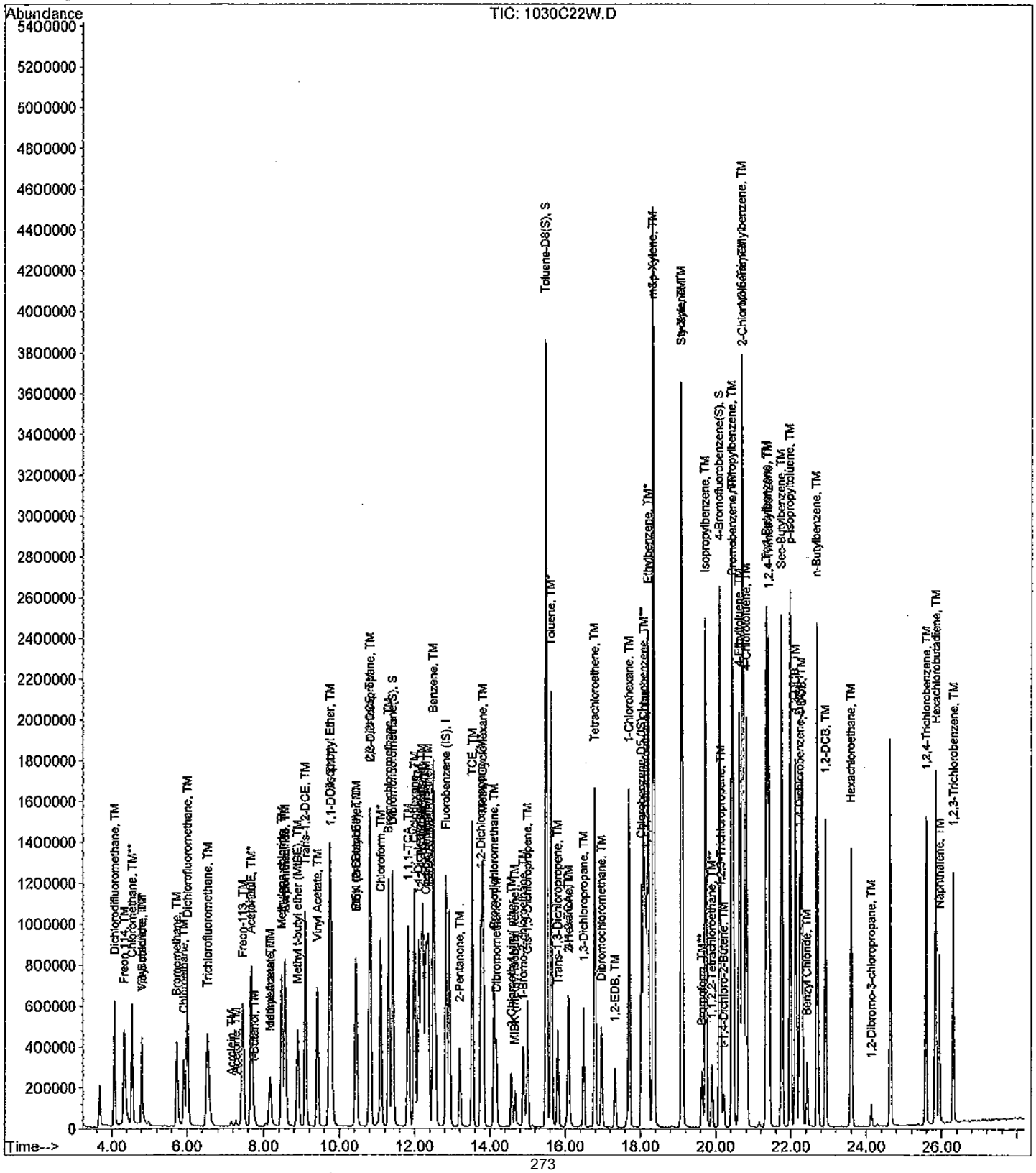
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



Quantitation Report (Not Reviewed)

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

Quantitation Report (Not Reviewed)

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

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

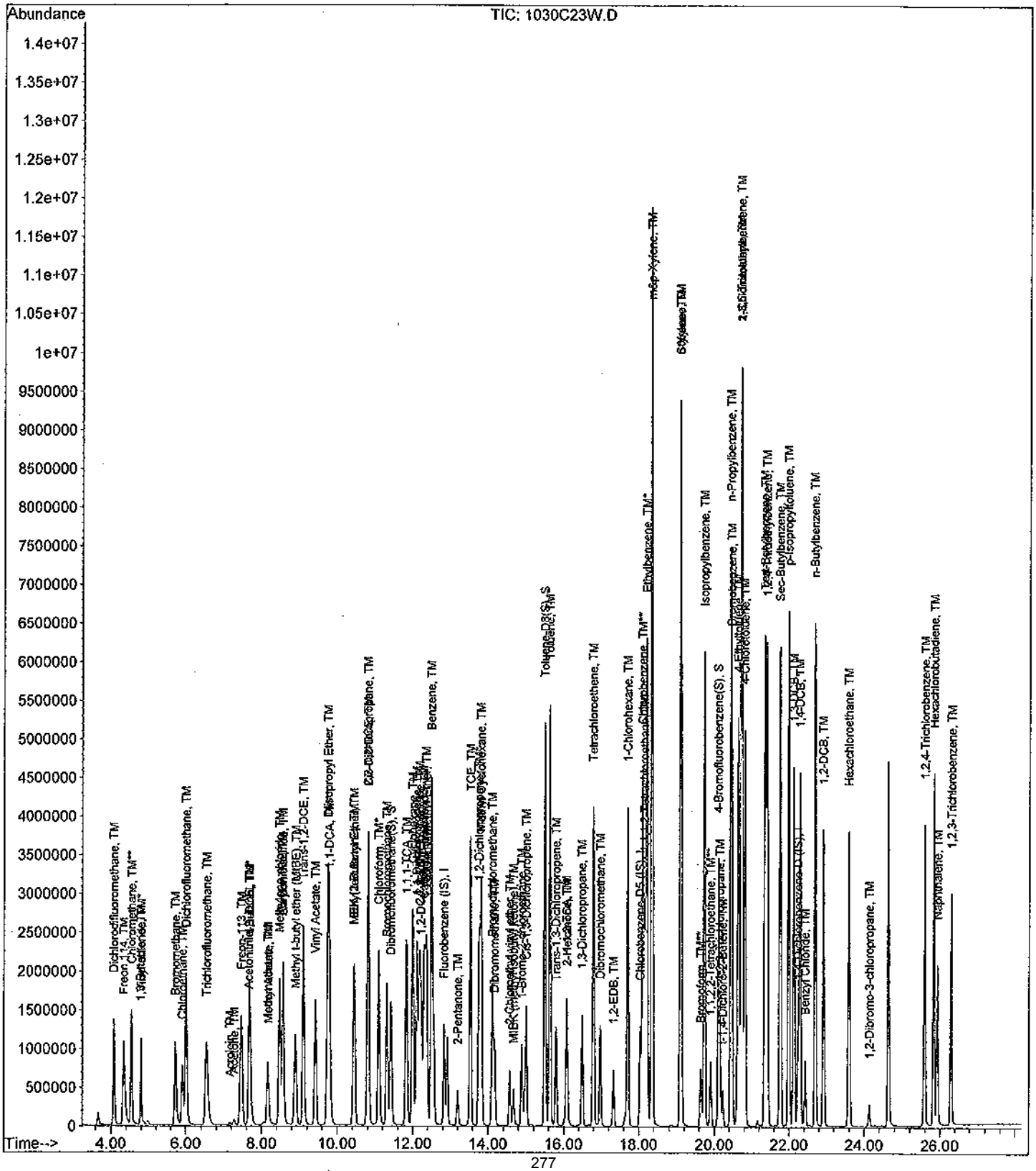
(#) = qualifier out of range (m) = manual integration

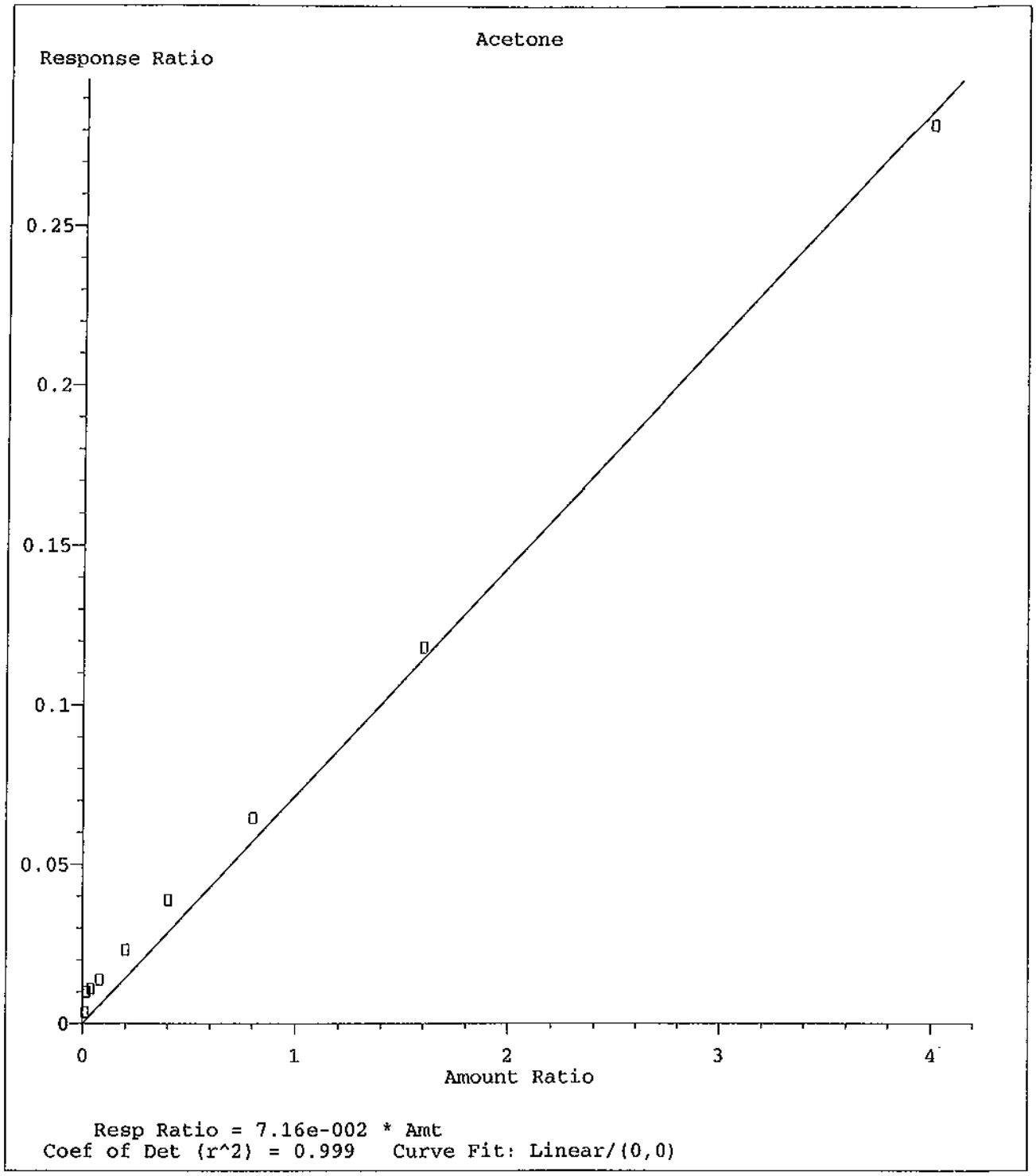
Quantitation Report

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

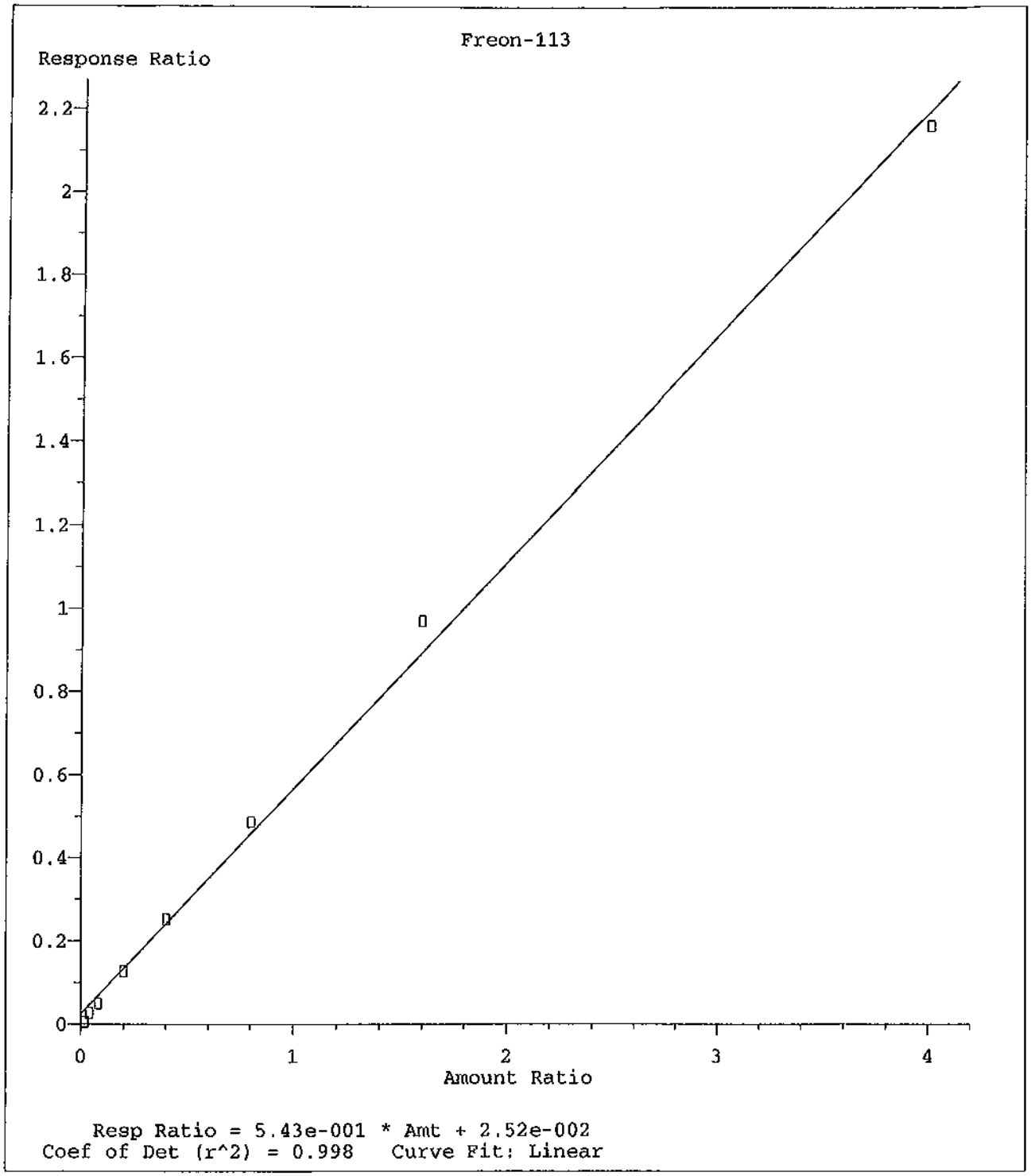
Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

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

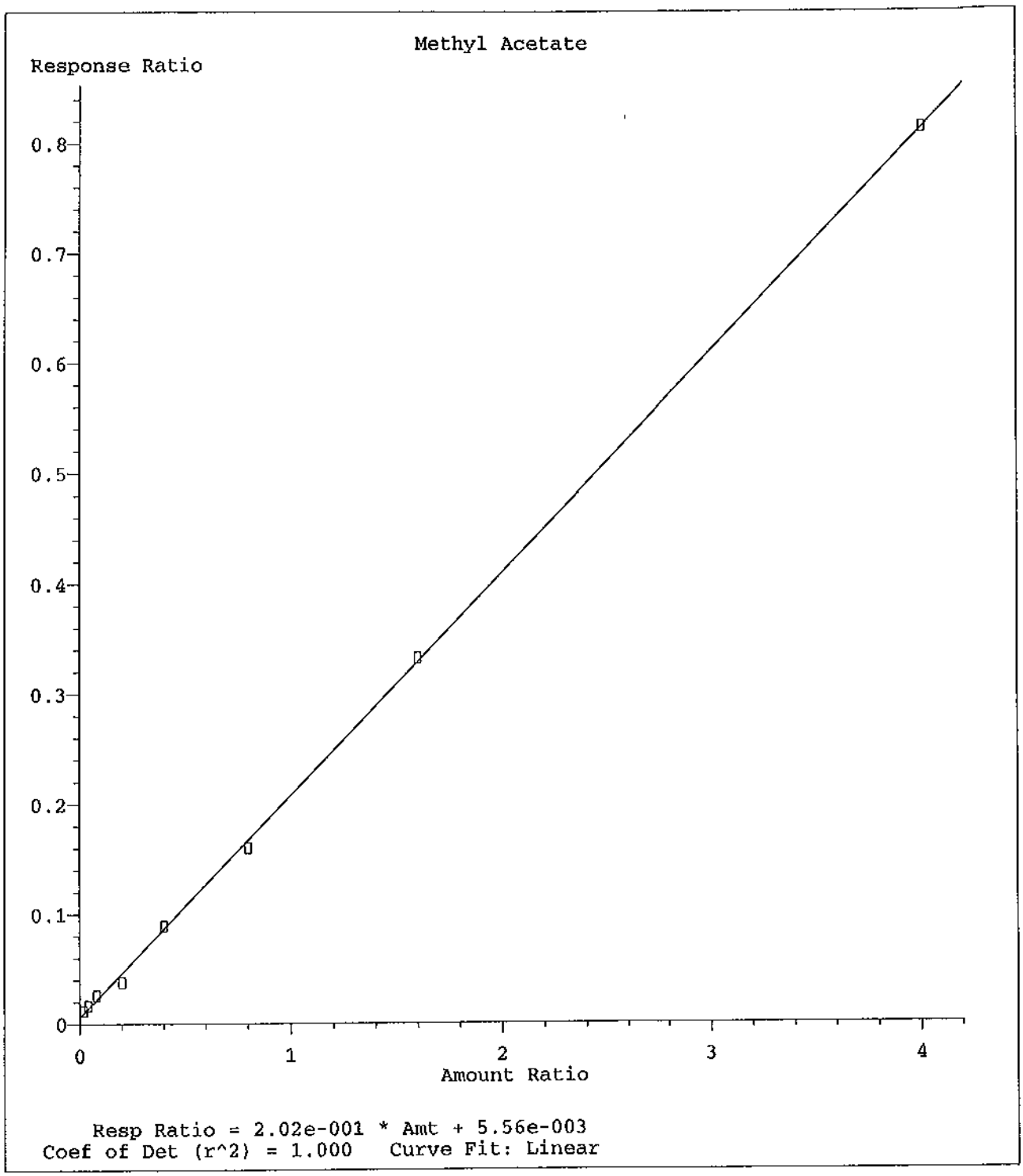




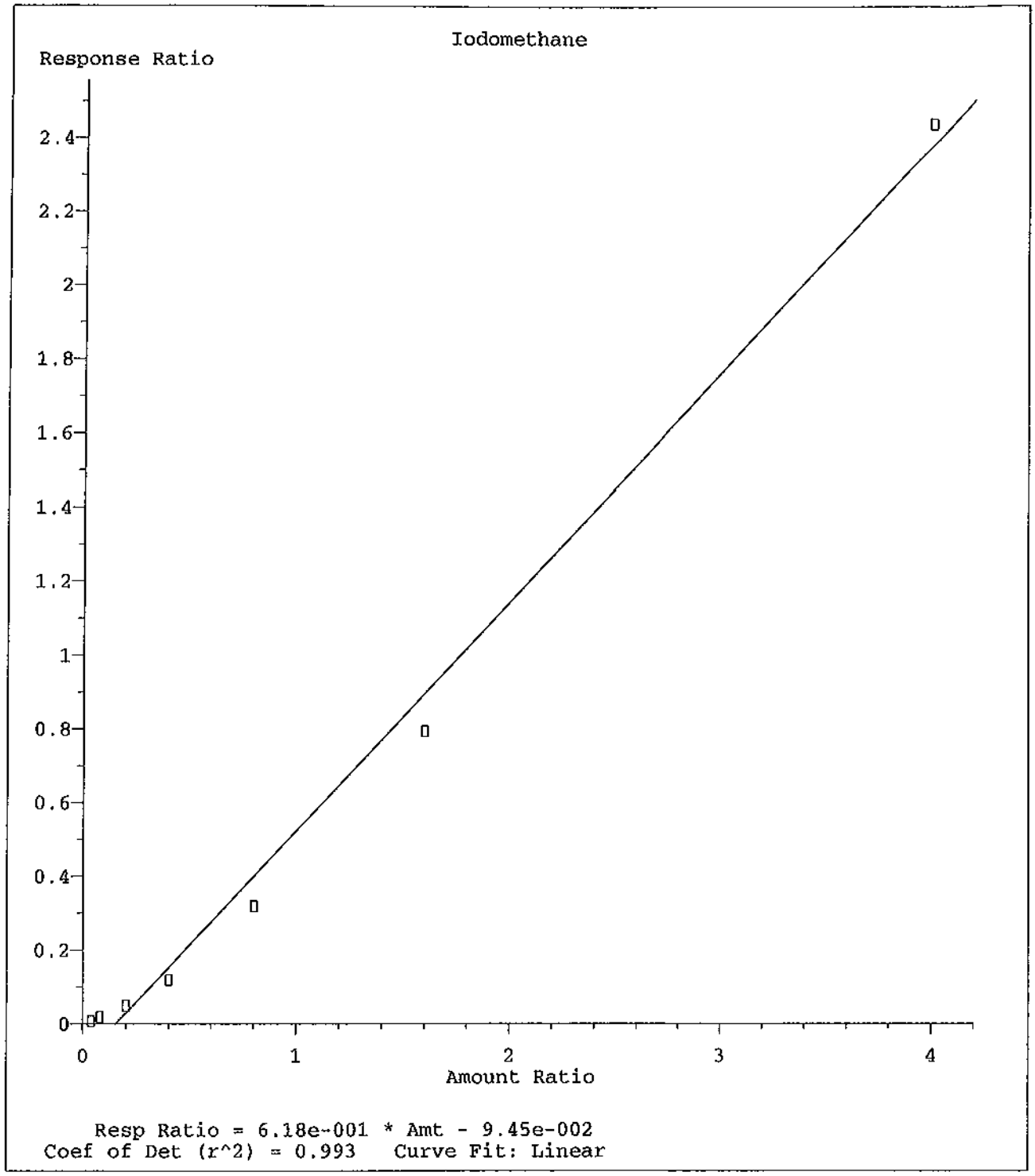
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



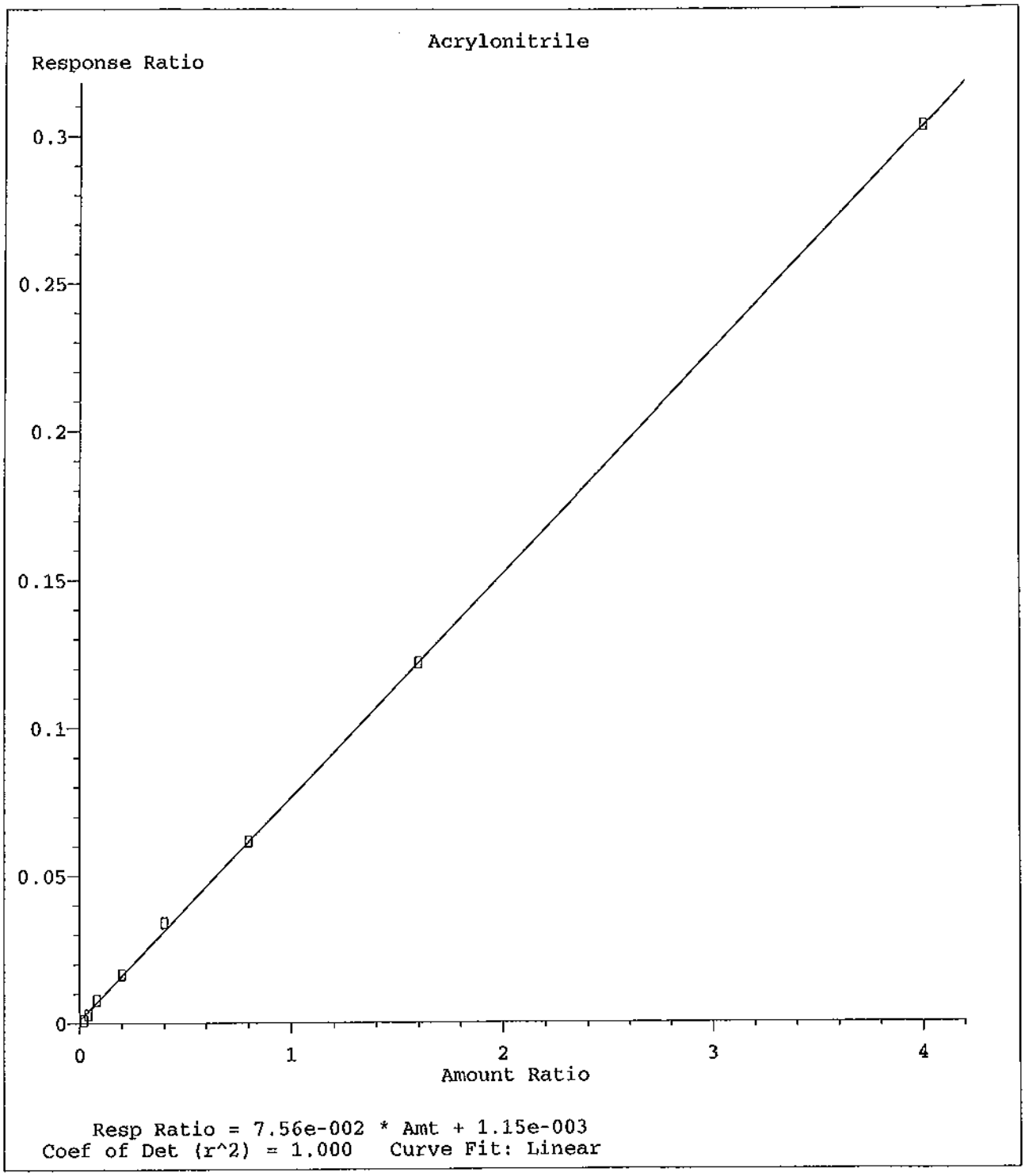
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



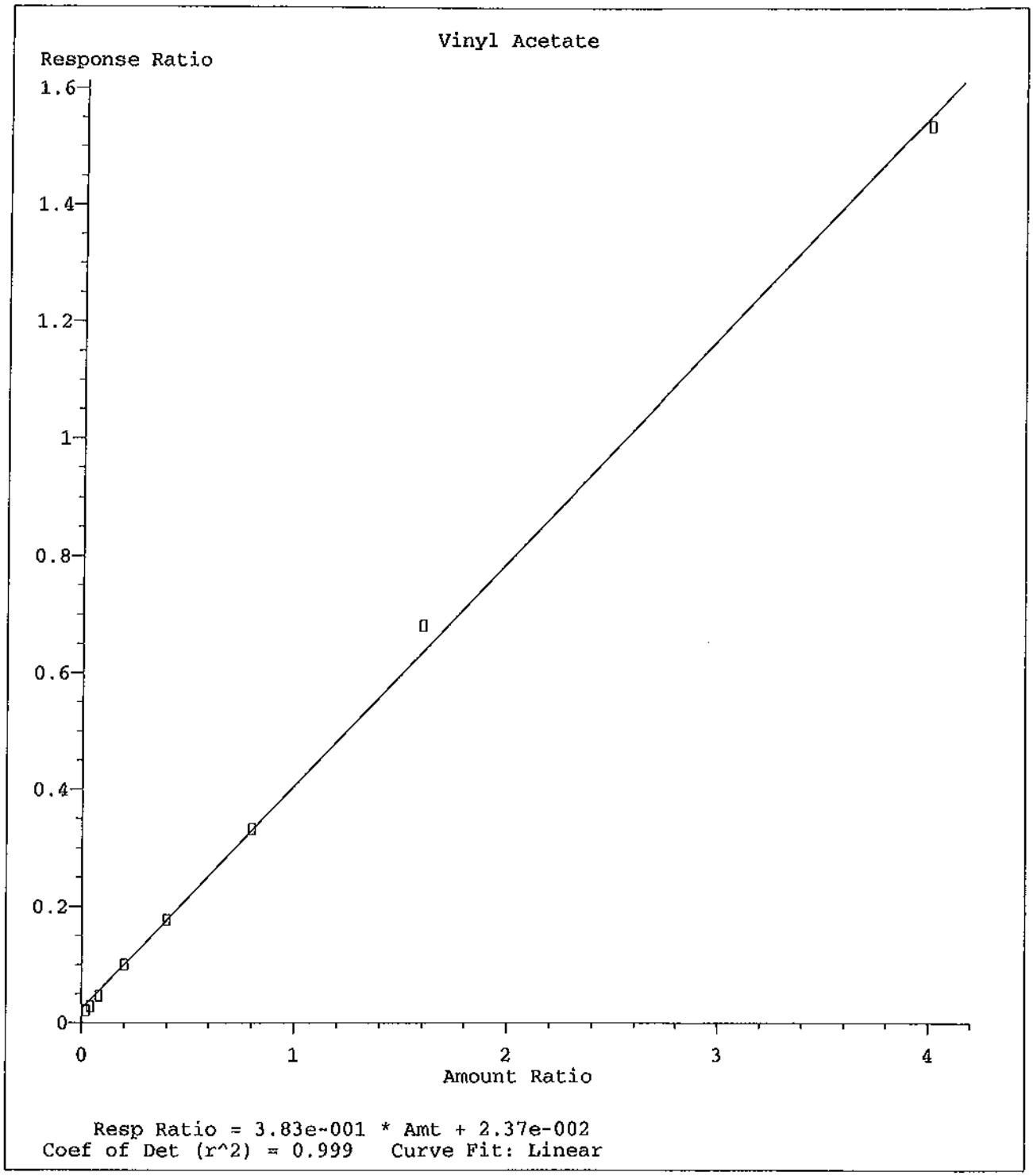
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



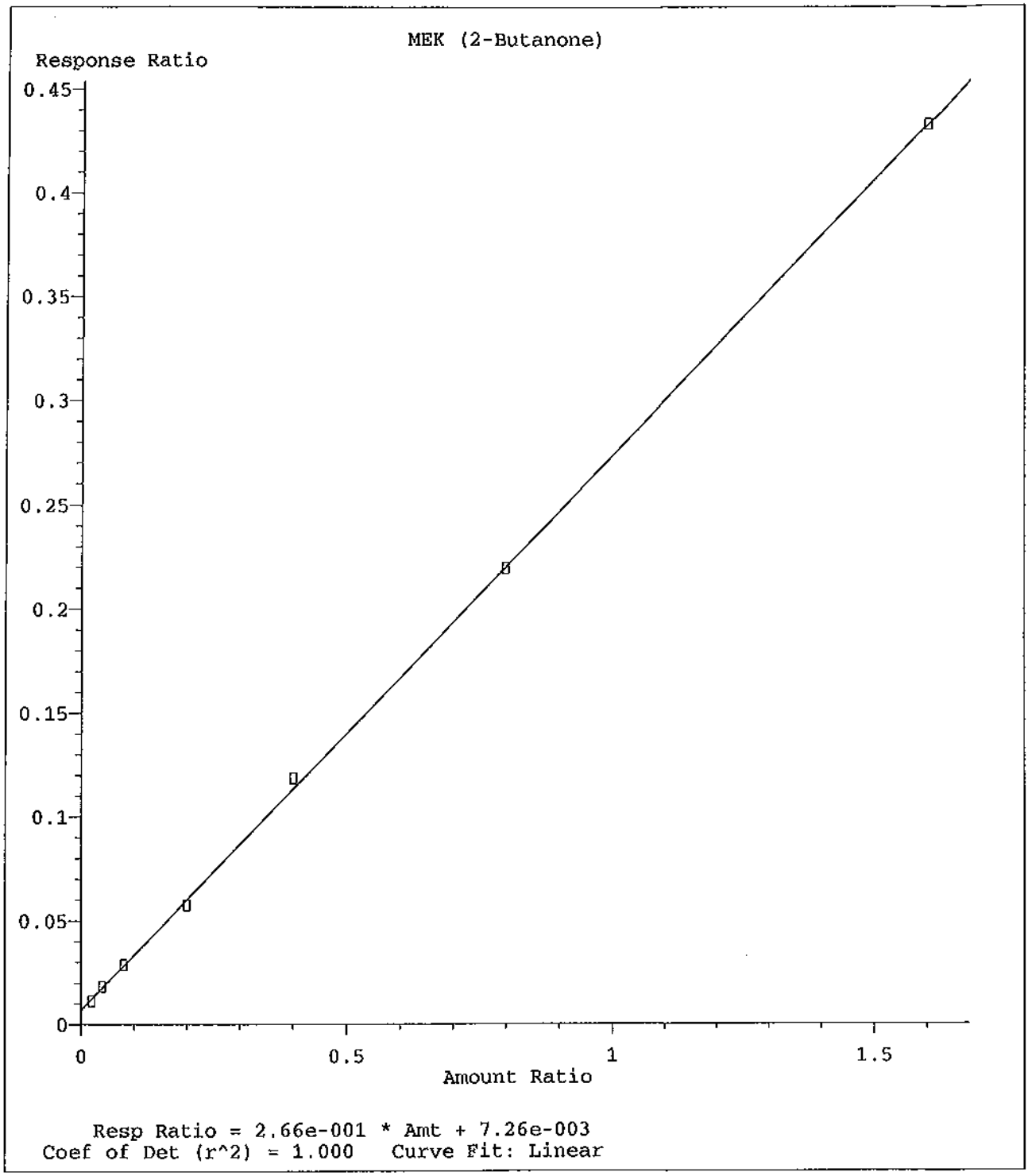
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



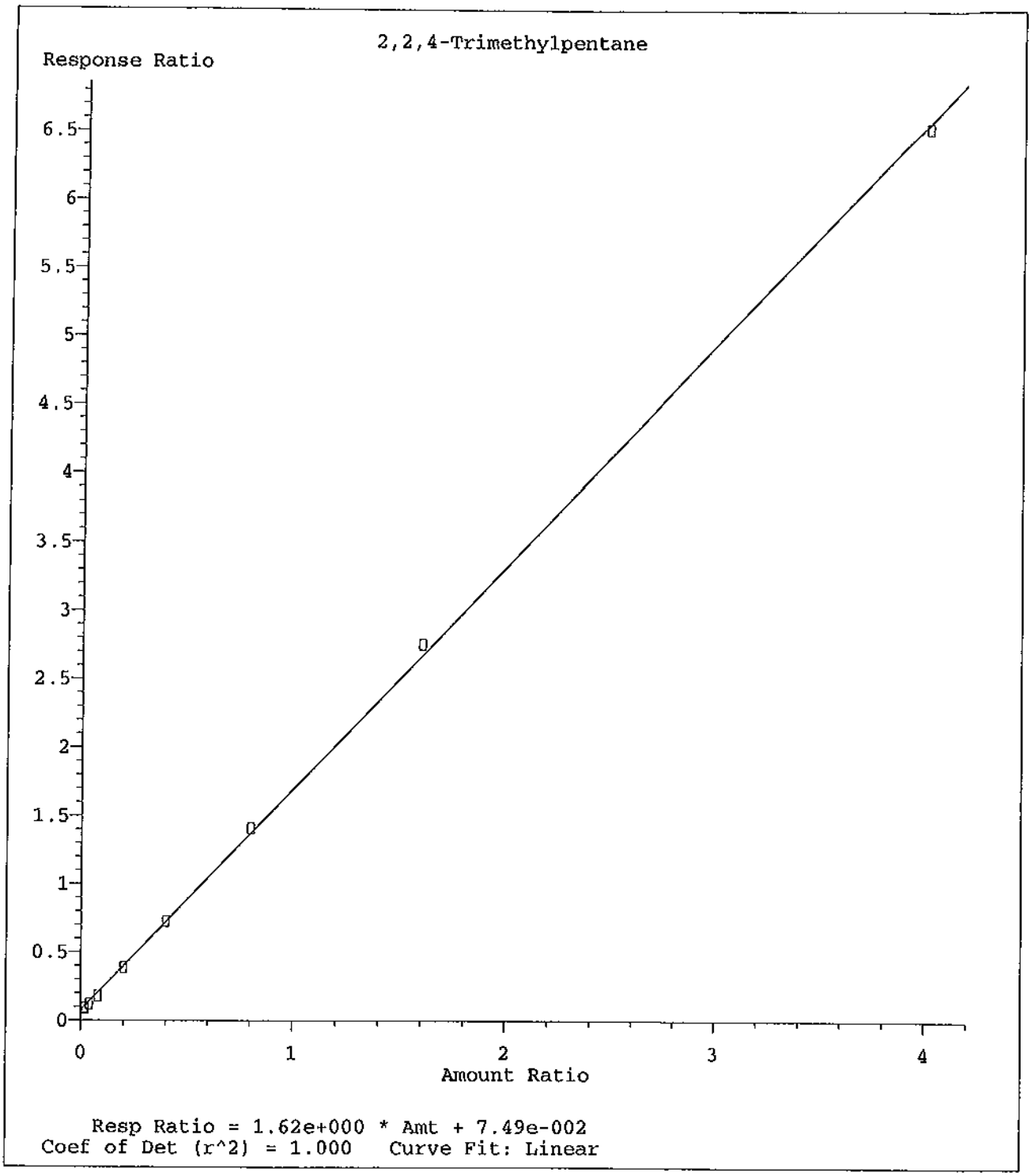
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



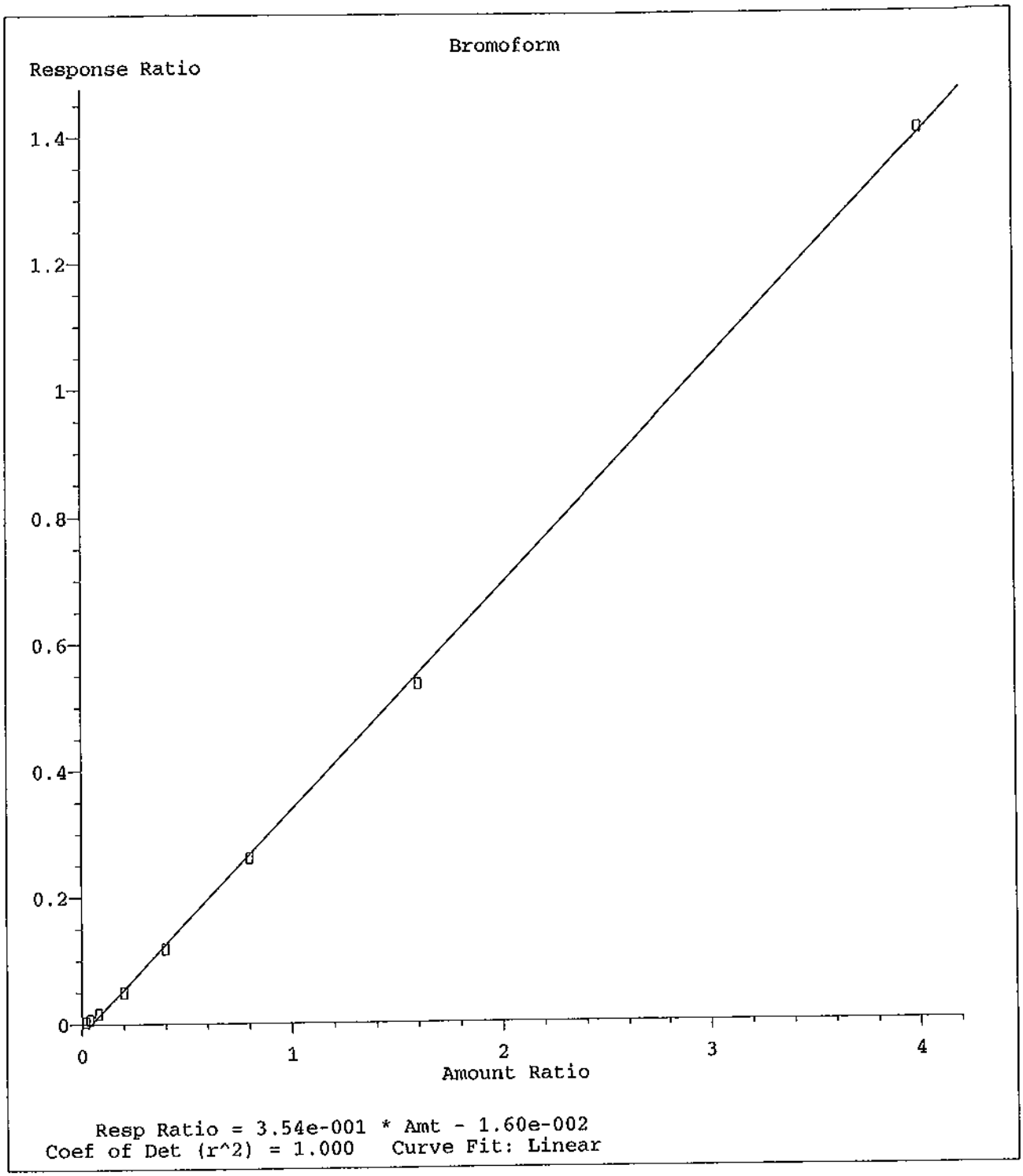
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



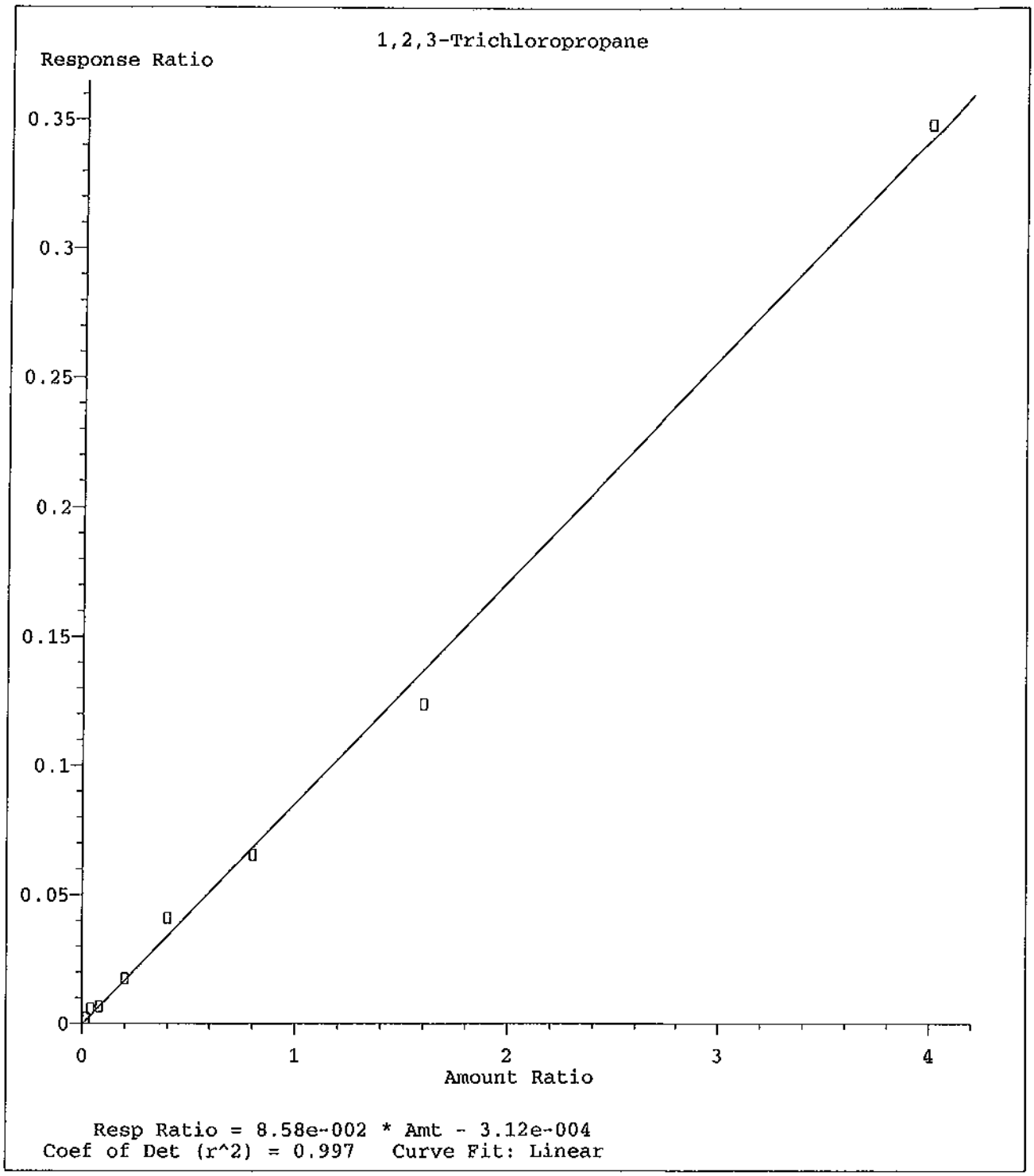
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



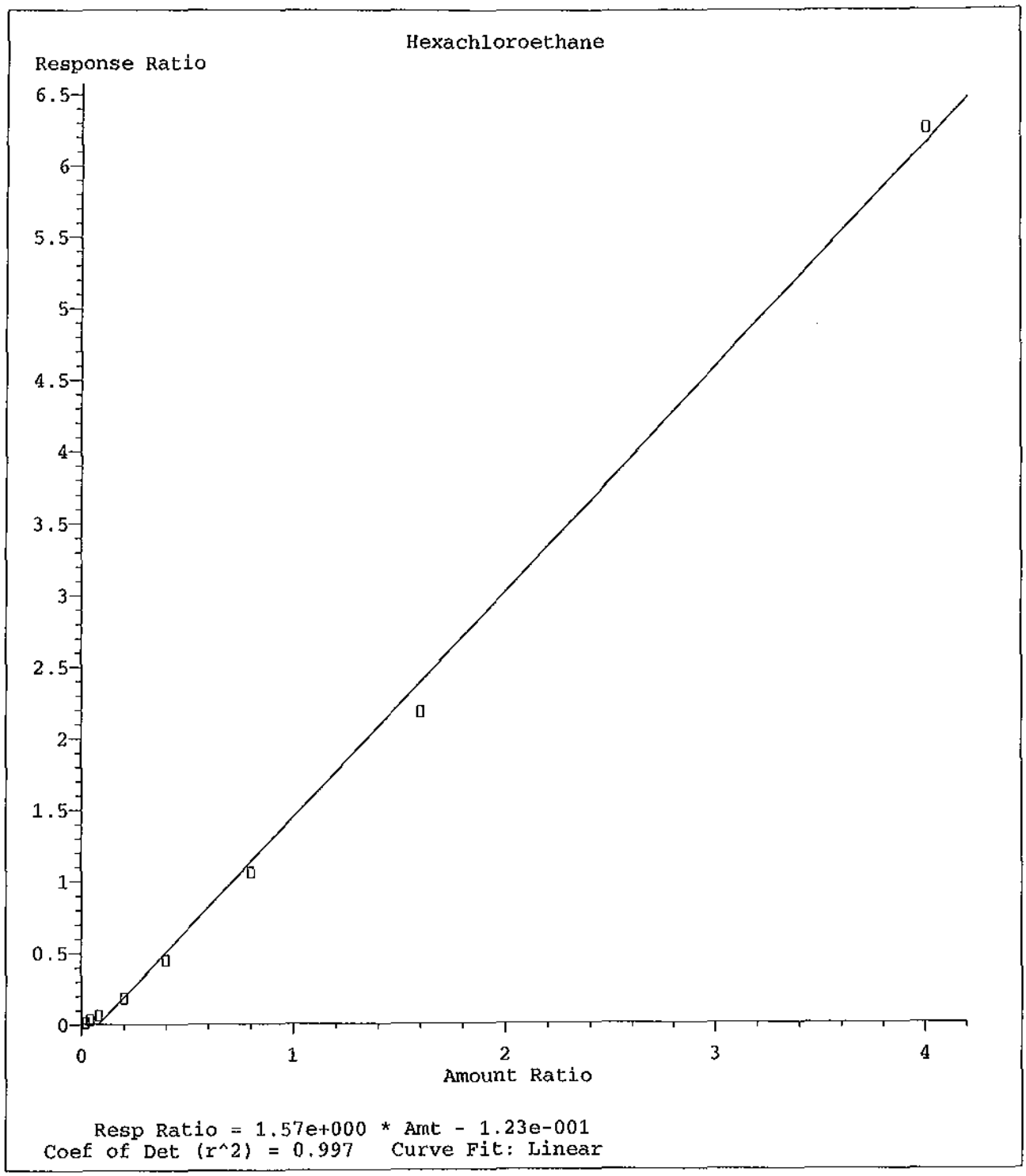
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



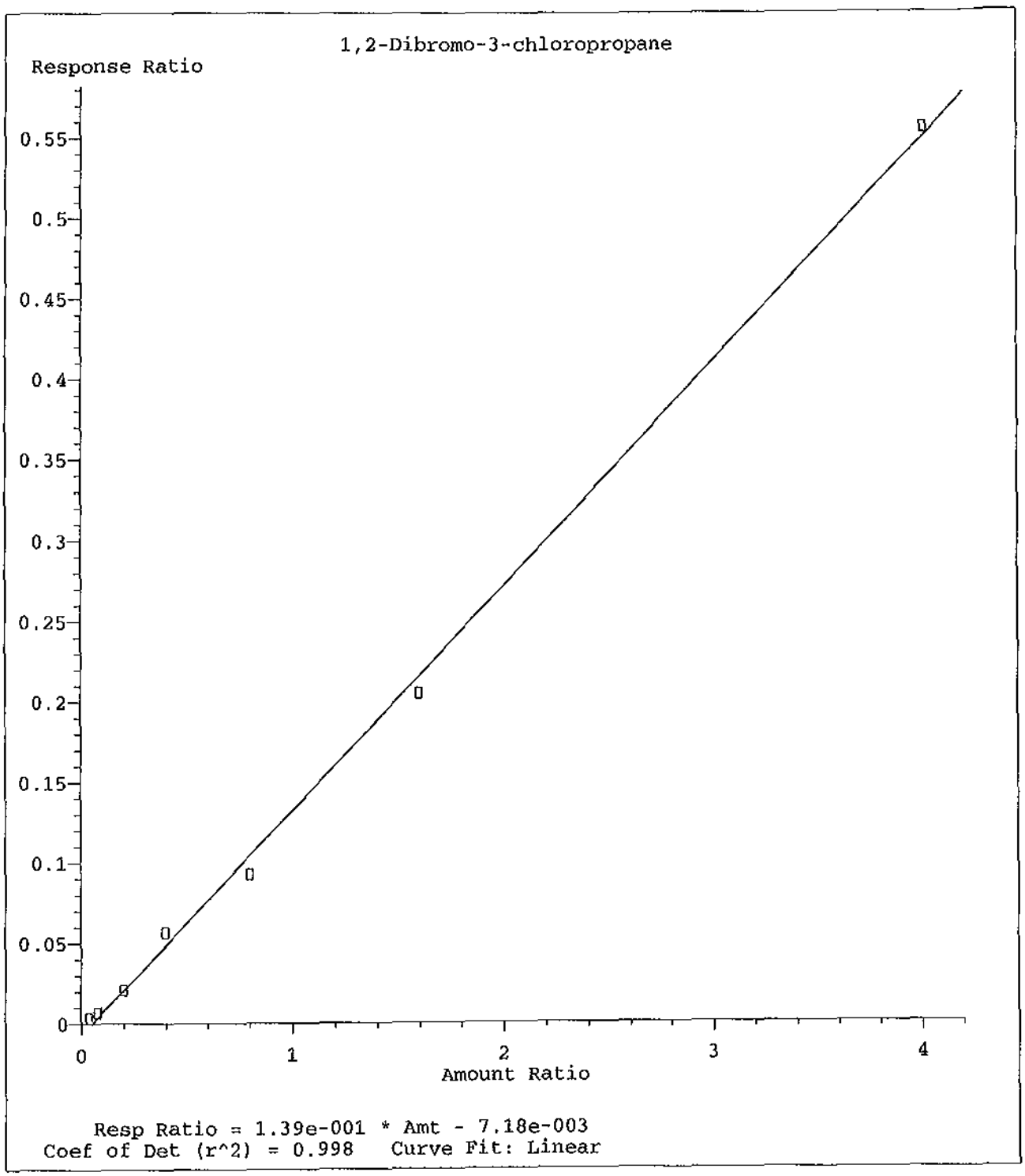
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



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.
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. 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
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		

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						Qvalue
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: $\frac{(222193)(25)}{(600576)(0.92027)}$ (1) = 10.04/660347 ✓ ARS 12/7/11

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

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

	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

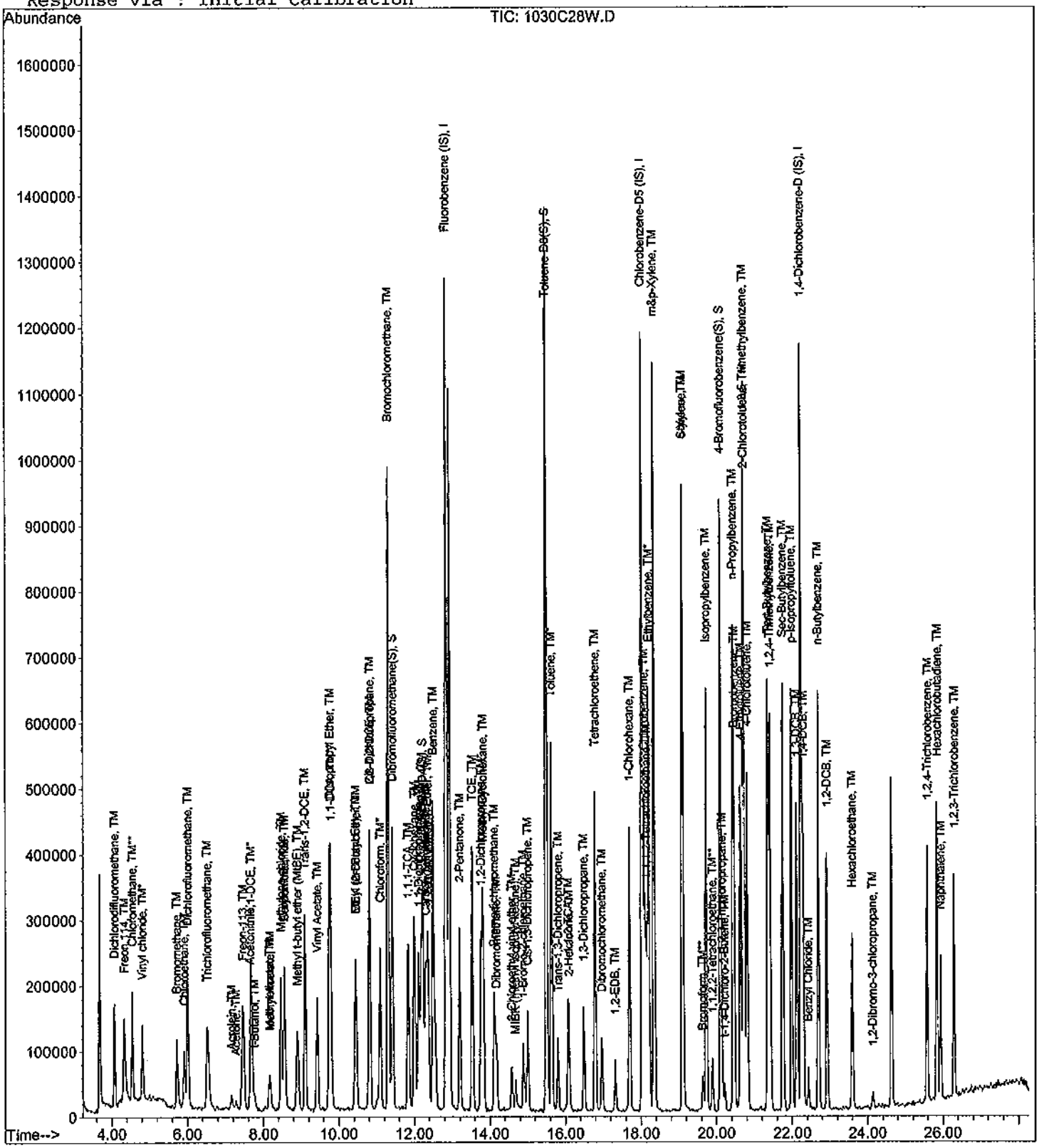
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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		* NT ARS 12/7/11
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			

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. SDG No:
Case No: Date Analyzed: 10/31/2011
Matrix: 0 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		

Quantitation Report (Not Reviewed)

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

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						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

Quantitation Report (Not Reviewed)

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)	Bromodichloromethane	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

Quantitation Report (Not Reviewed)

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

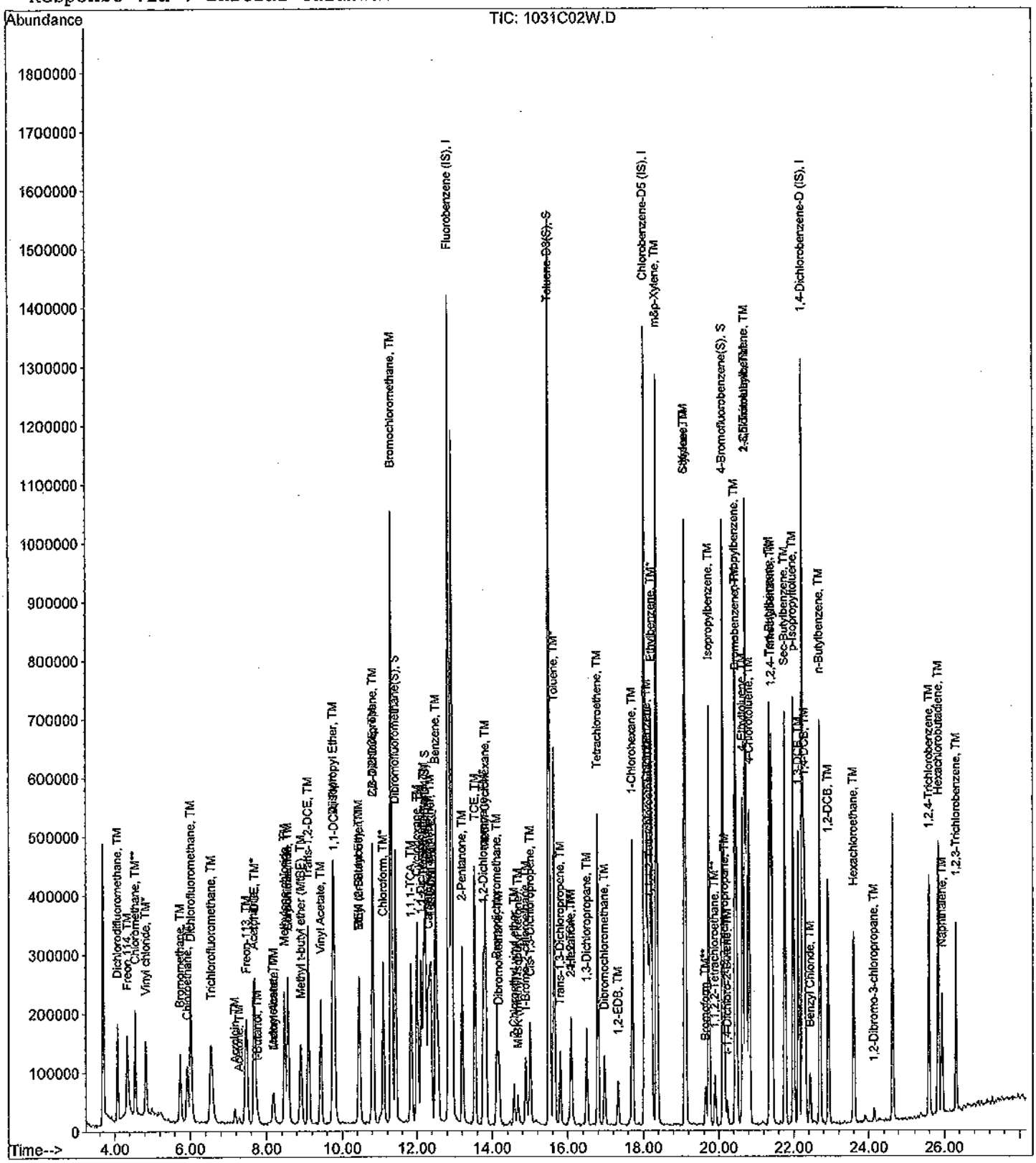
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/30/2011
Matrix: Instrument: Chico Initials:

1030C05W.D 1030C06W.D 1030C07W.D 1030C08W.D 1030C09W.D 1030C10W.D 1030C11W.D

		Compound	0.5	1	5	10	20	40	100				Avg	%RSD		
1	I	Fluorobenzene (IS)	ISTD													
2	TMHBL	Gasoline	17.8	8.144	5.154	3.050	2.484	2.343	2.274				5.9	96	TMHBL	1.000
3	I	Chlorobenzene-D5 (IS)	ISTD													
4	I	1,4-Dichlorobenzene-D (IS)	ISTD													
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																

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						Qvalue
2) Gasoline	18.05	TIC	15186538m	62.79631	ppb	100

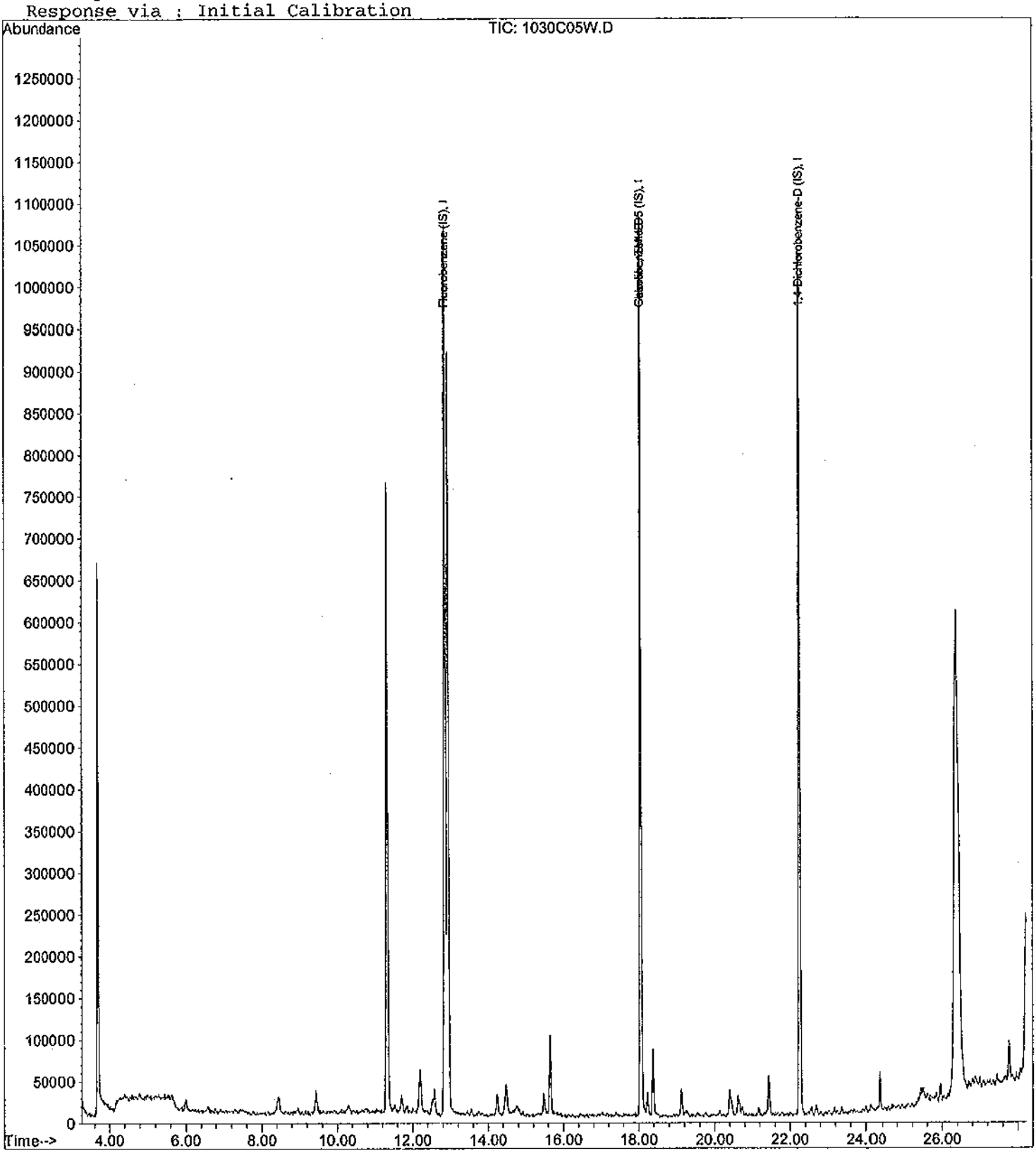
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

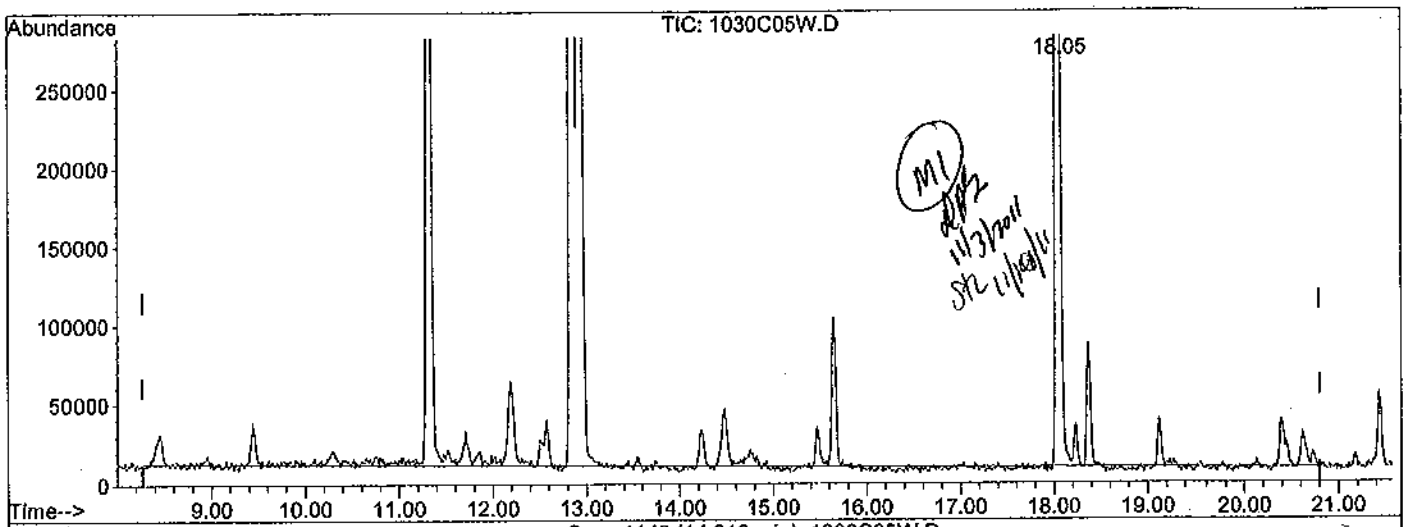
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

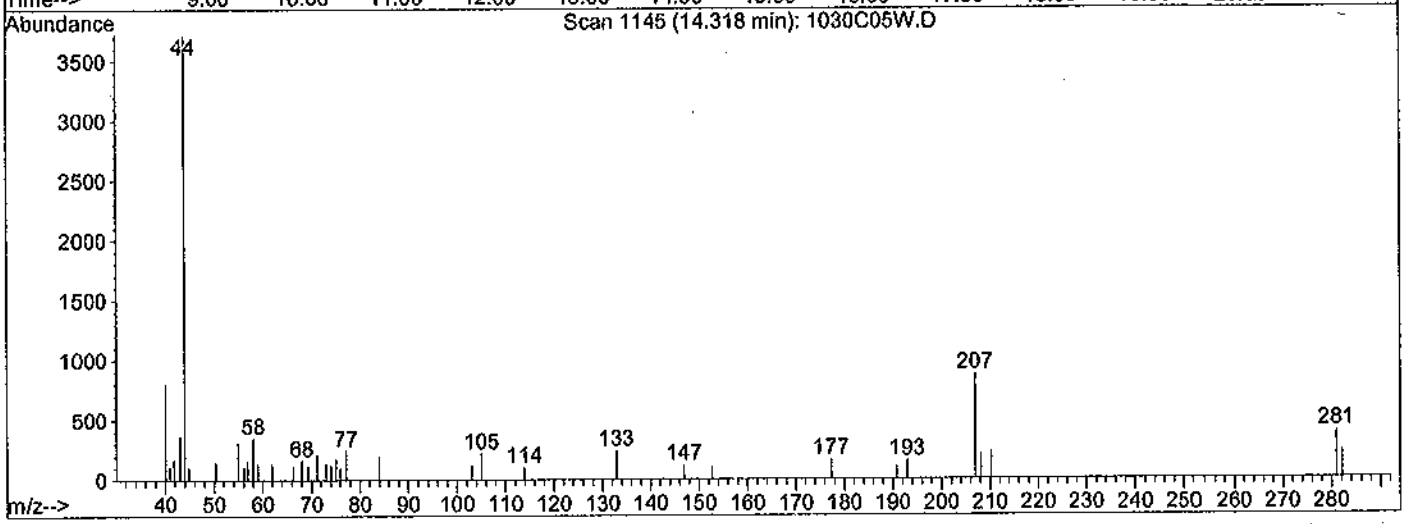


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C05W.D 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: Oct 31 9:32 2011 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

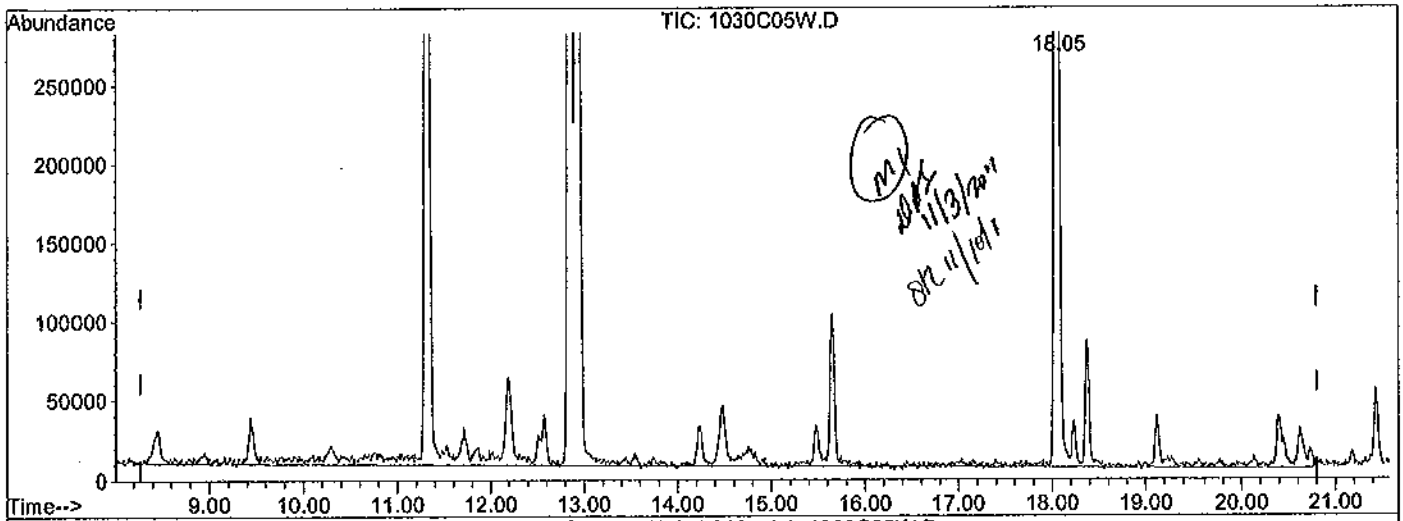
response 11640400

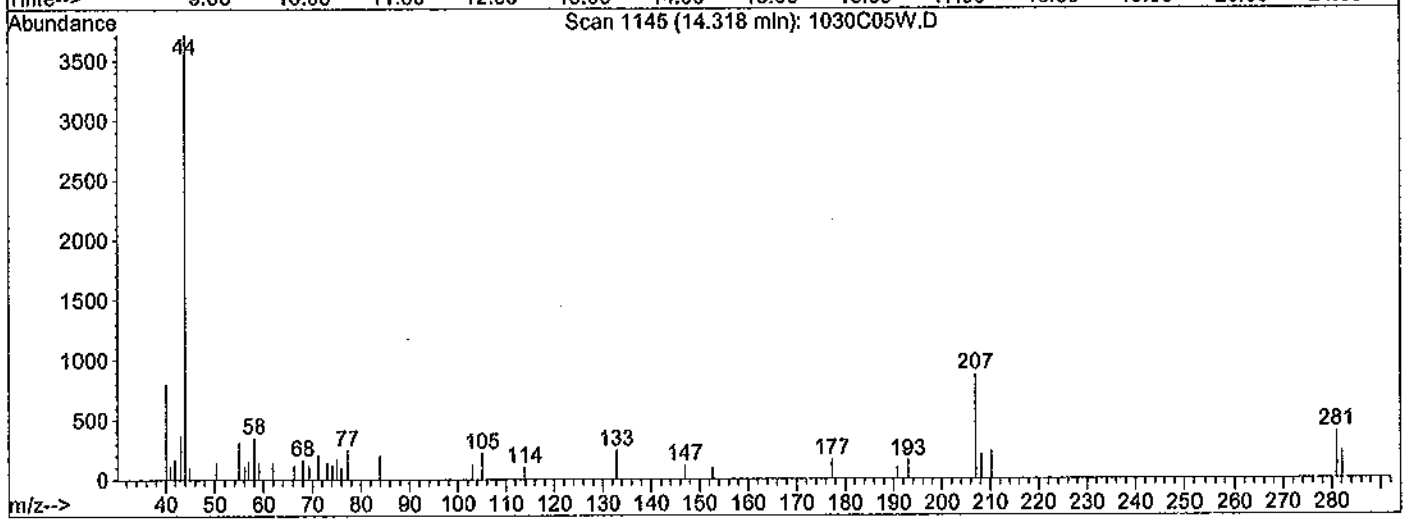
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.82#
0.00	0.00	2.44#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C05W.D 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: 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

Quantitation Report (QT Reviewed)

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						Qvalue
2) Gasoline	18.04	TIC	17501250m	71.71659	ppb	100

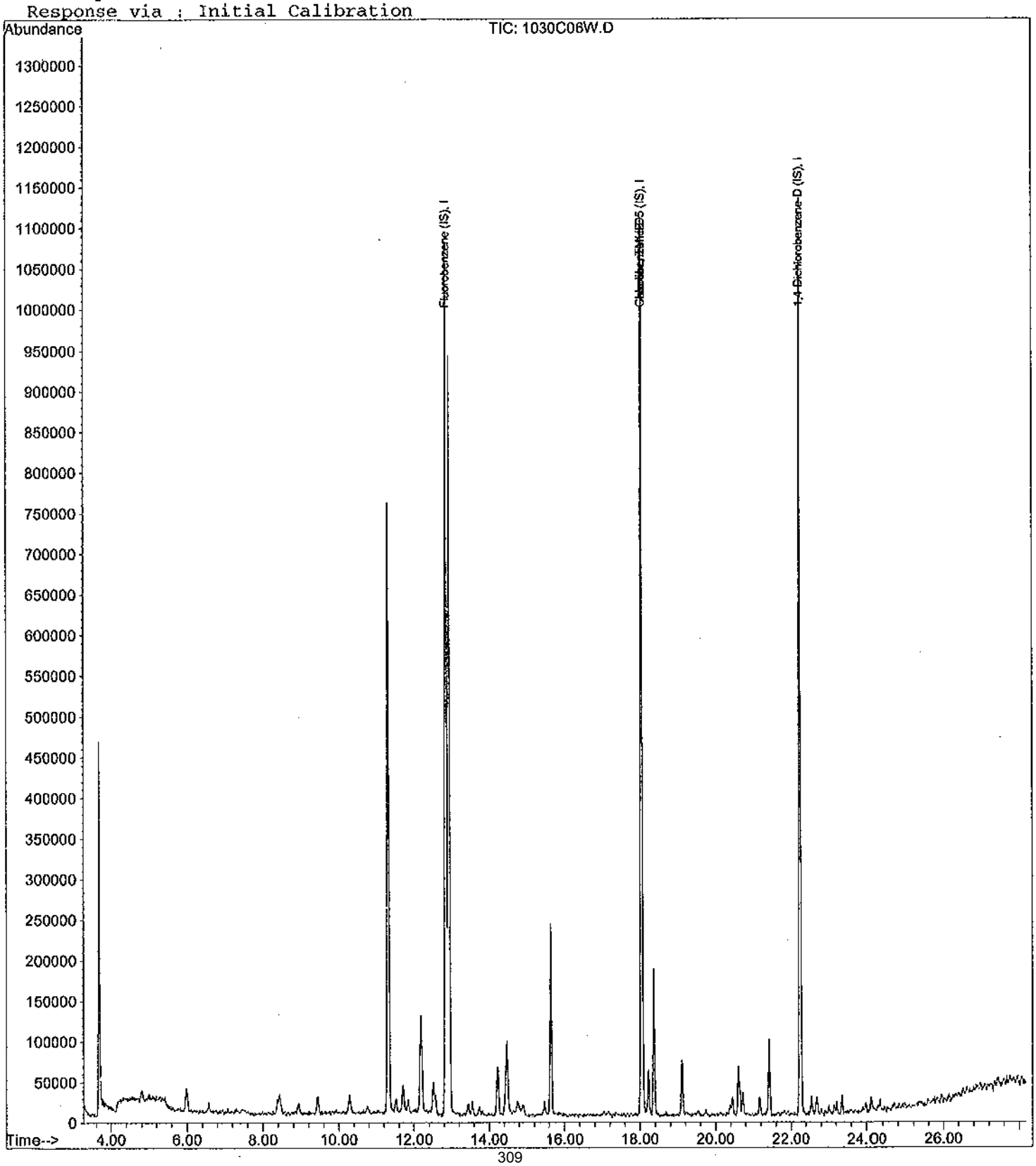
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

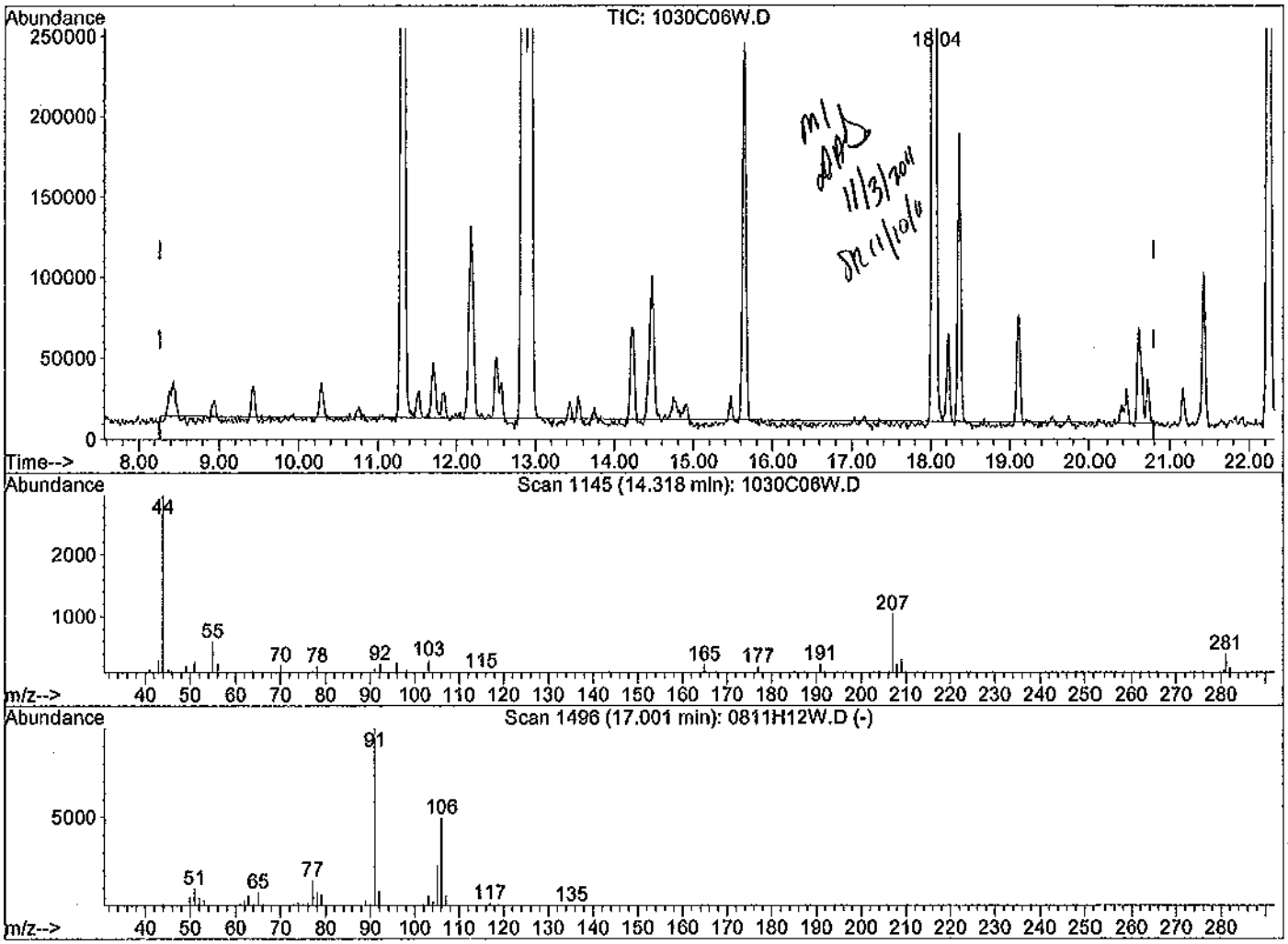
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C06W.D 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: Oct 31 9:32 2011 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

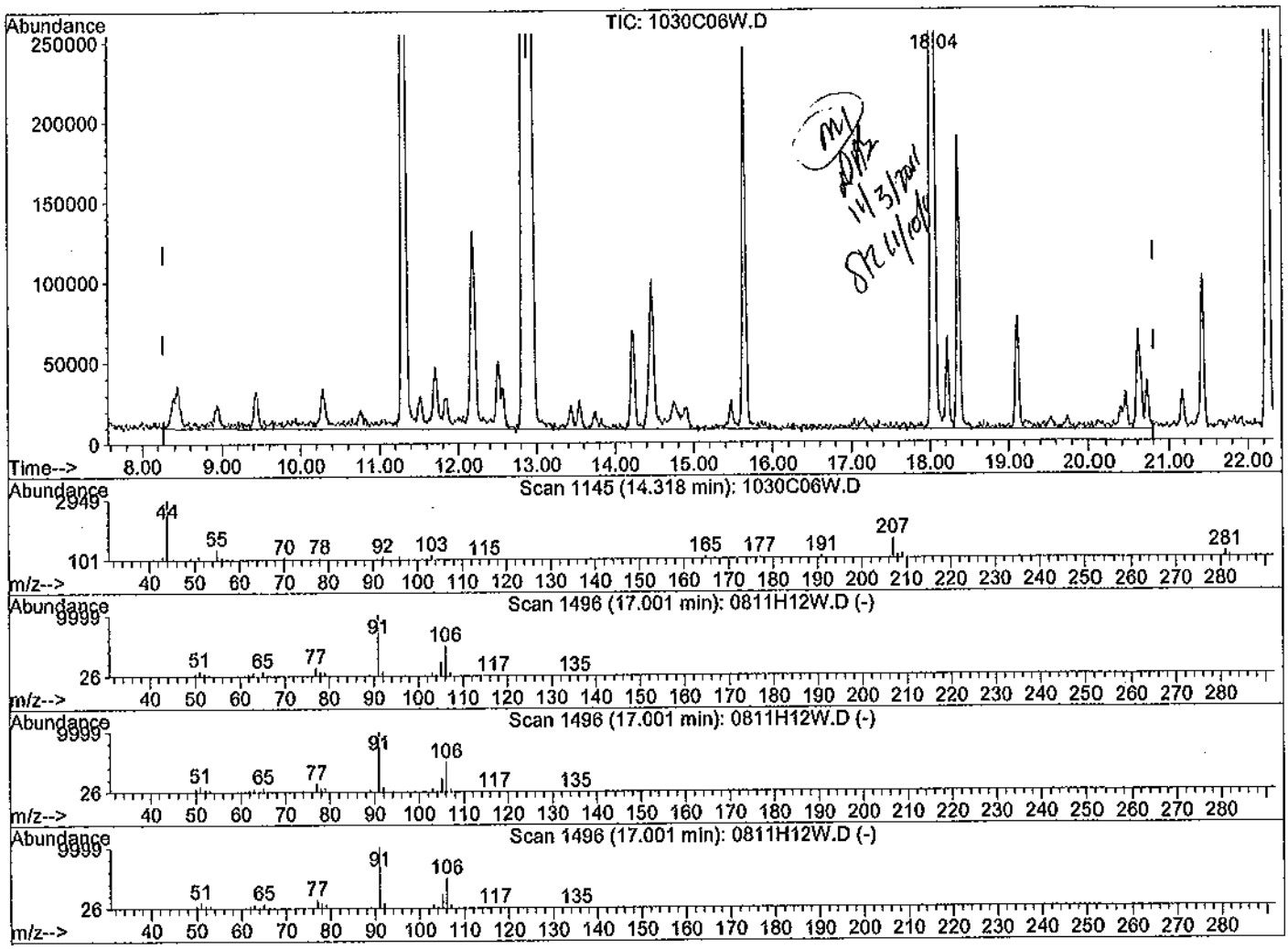
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.68#
0.00	0.00	2.00#
0.00	0.00	0.00

1030C06W.D CGAS.M Thu Nov 03 10:30:25 2011

Quantitation Report

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: 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						Qvalue
2) Gasoline	18.04	TIC	21647604m	90.78273	ppb	100

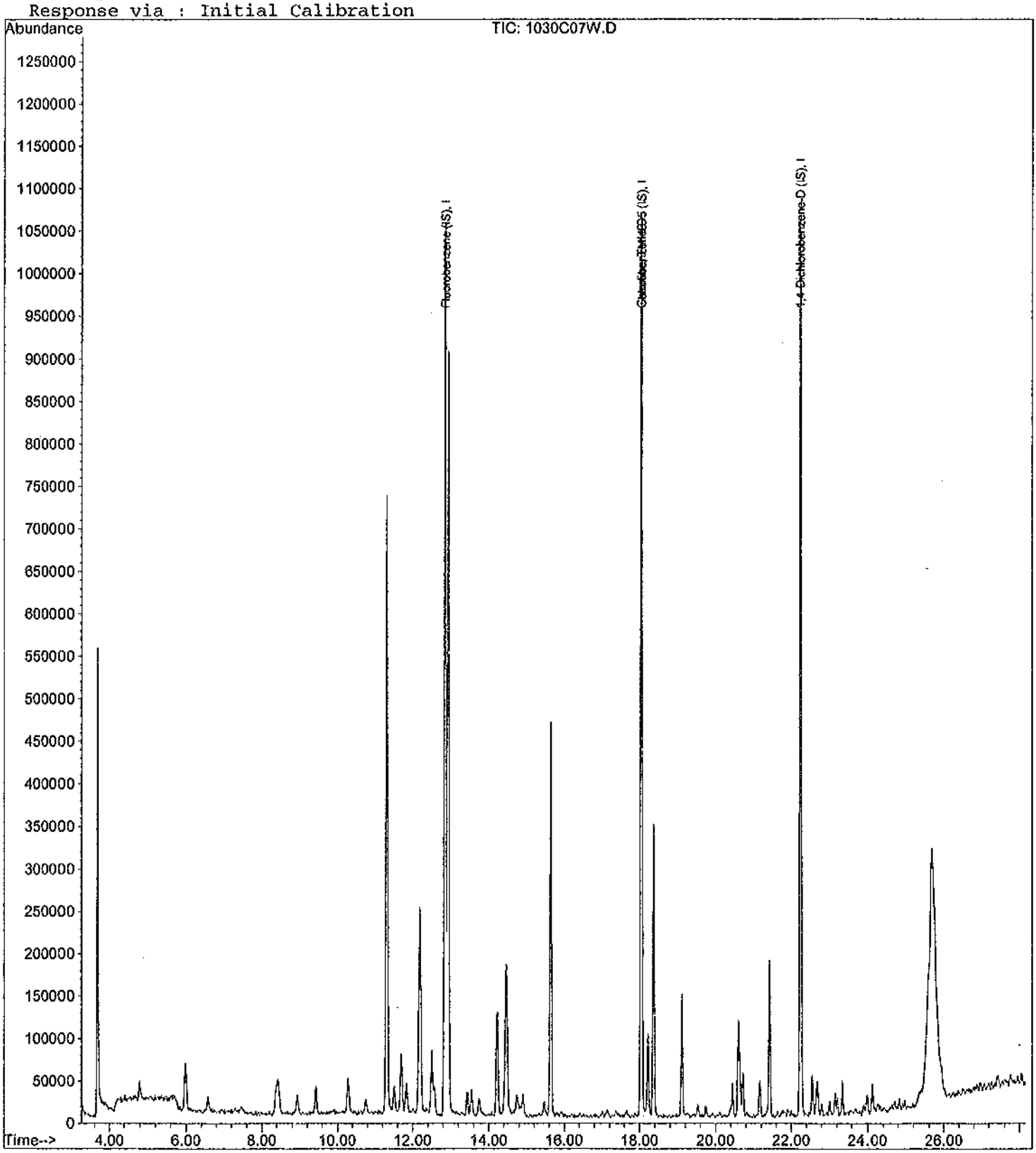
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

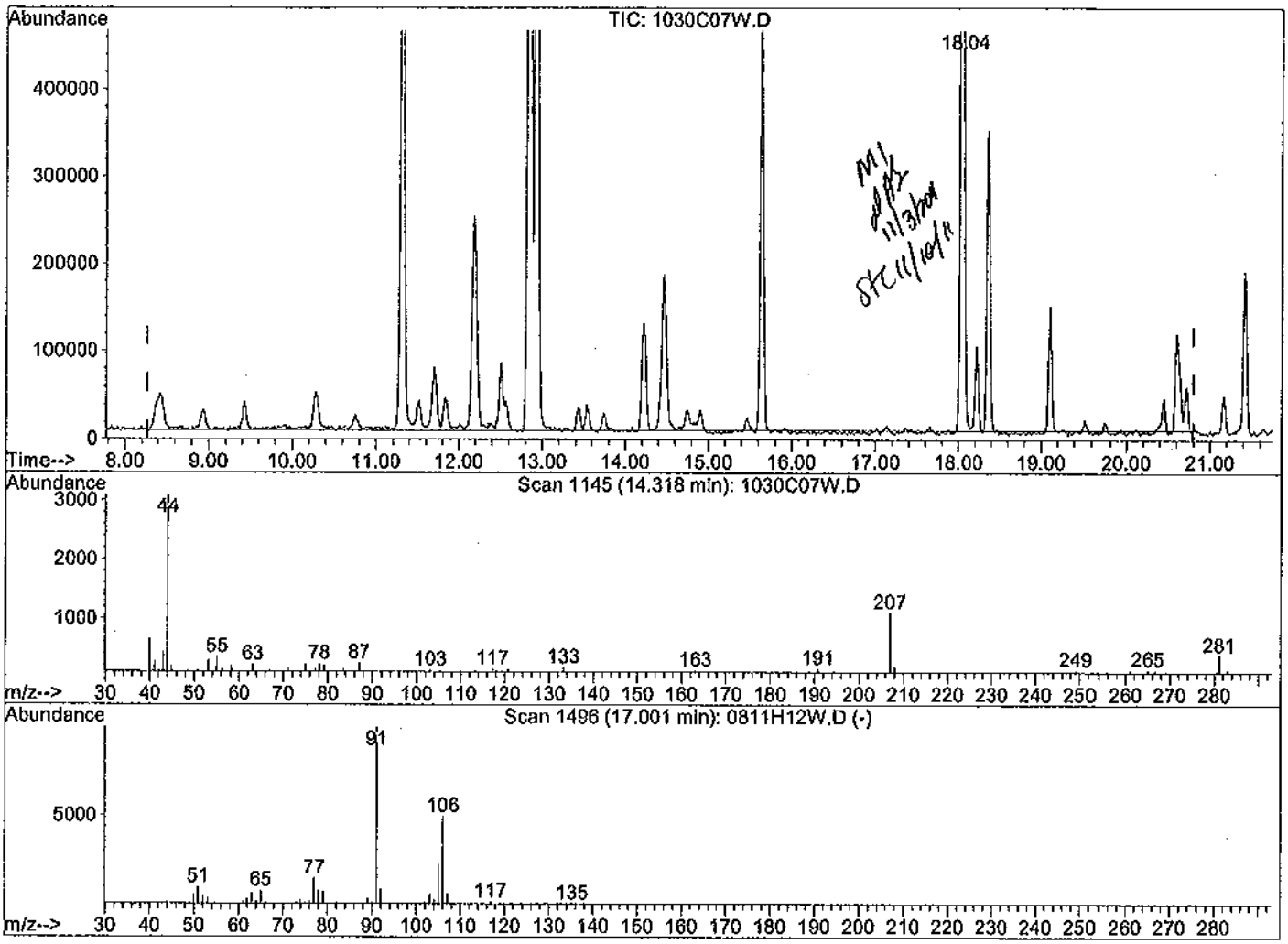
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C07W.D 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: Oct 31 9:32 2011 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

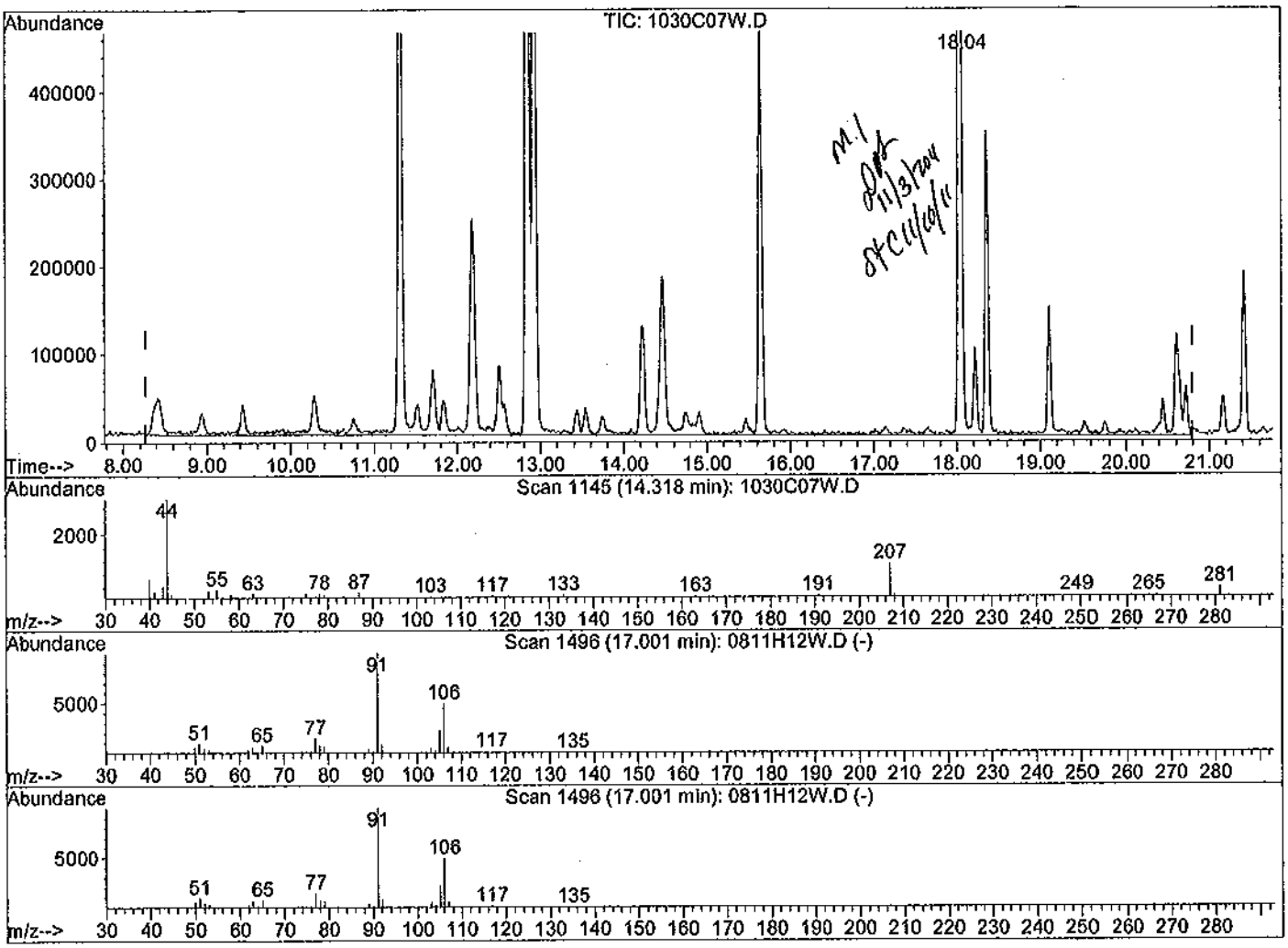
response 17997299

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 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: 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						Qvalue
2) Gasoline	15.64	TIC	39740510m	161.17894	ppb	100

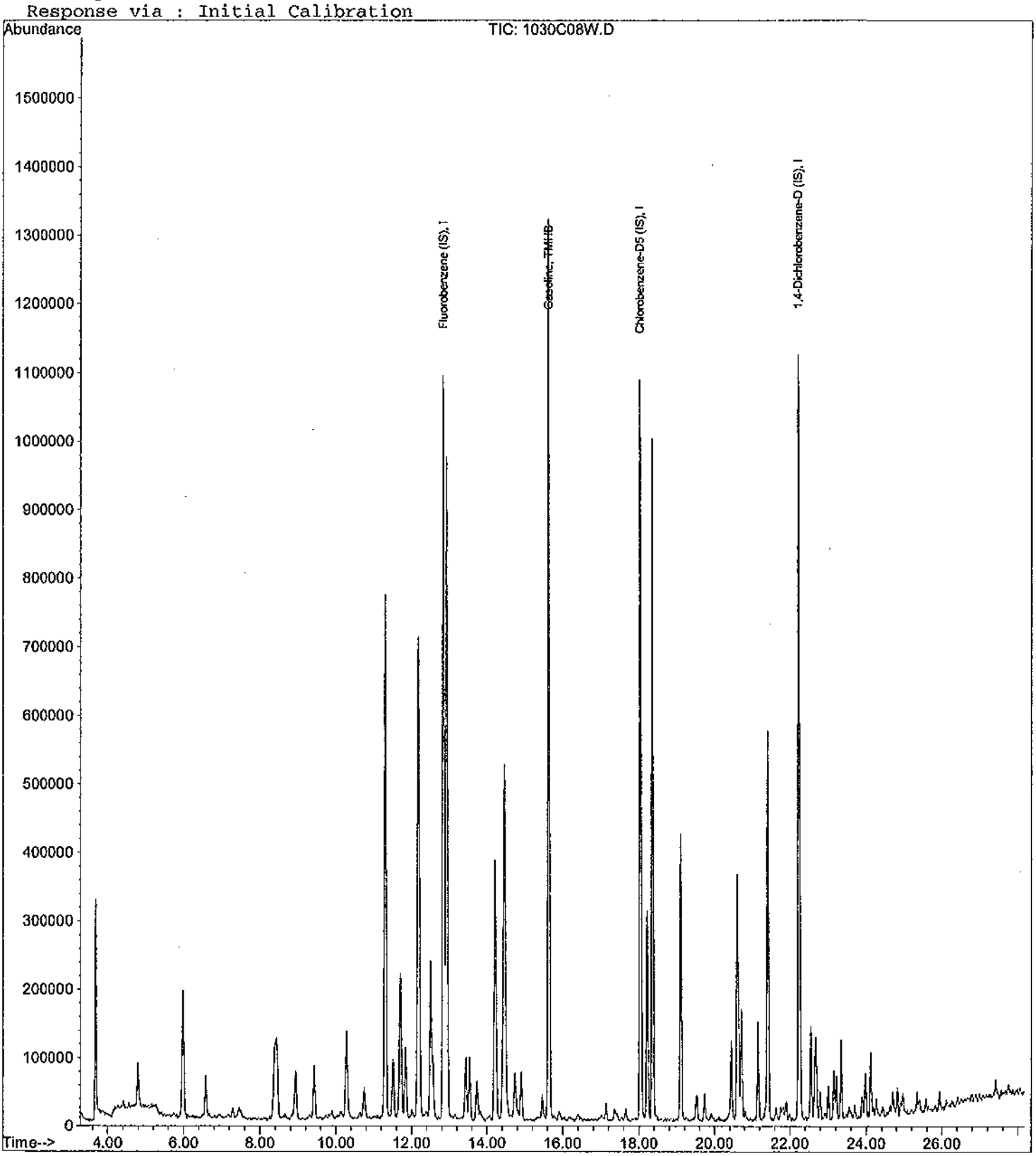
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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

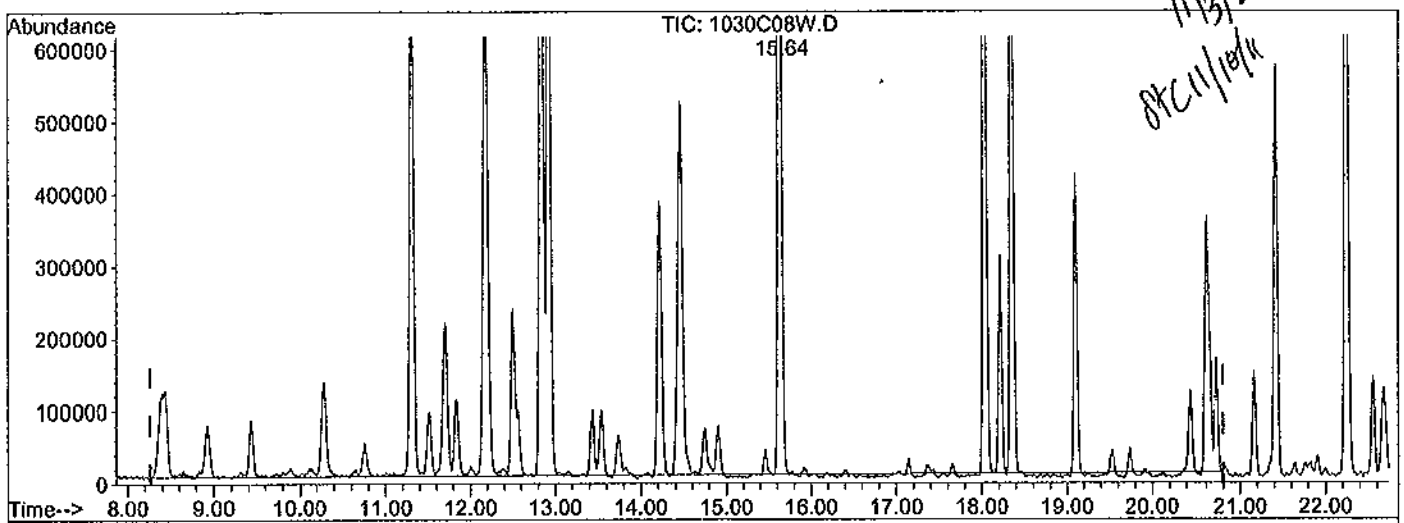


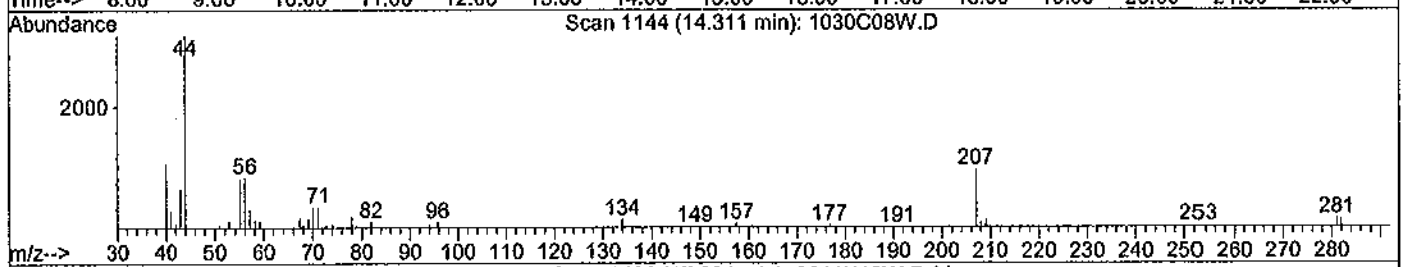
Quantitation Report

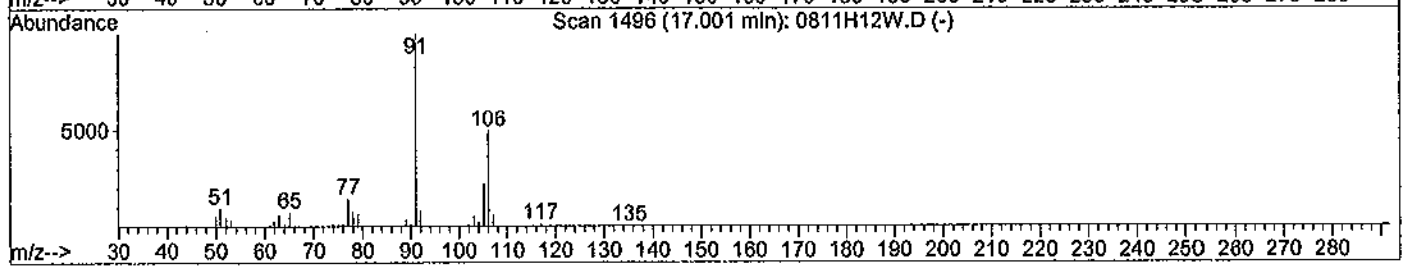
Data File : M:\CHICO\DATA\C111030\1030C08W.D Vial: 1
Acq On : 30 Oct 11 18:26 Operator: STC
Sample : Vol Std 10-30-11@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00
Quant Time: Oct 31 9:32 2011 Quant Results File: temp.res

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

11/3/2011
STC 11/10/11







TIC: 1030C08W.D

(2) Gasoline (TMHB)

14.31min 137.6327ppb m

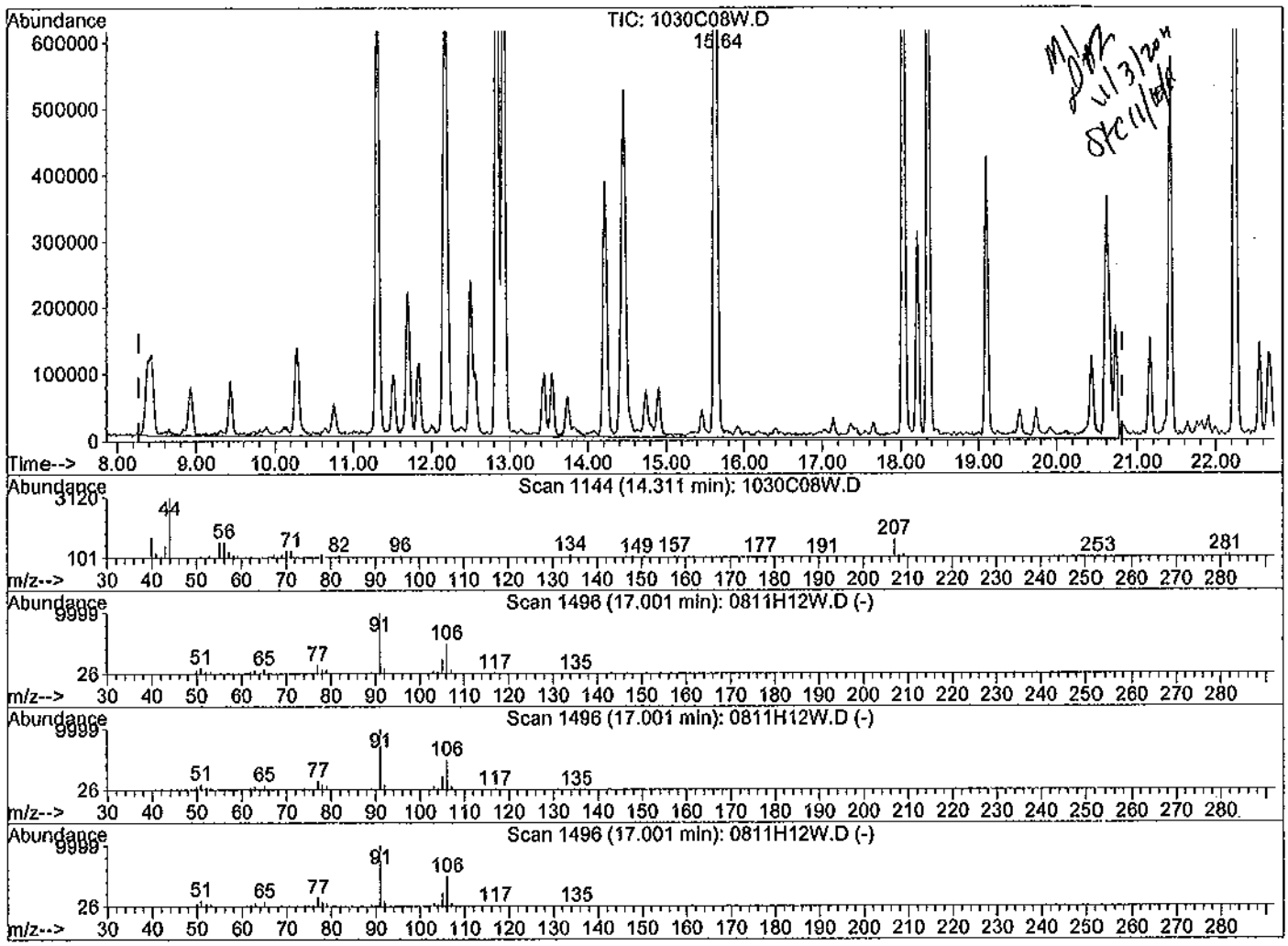
response 33934923

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 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: 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

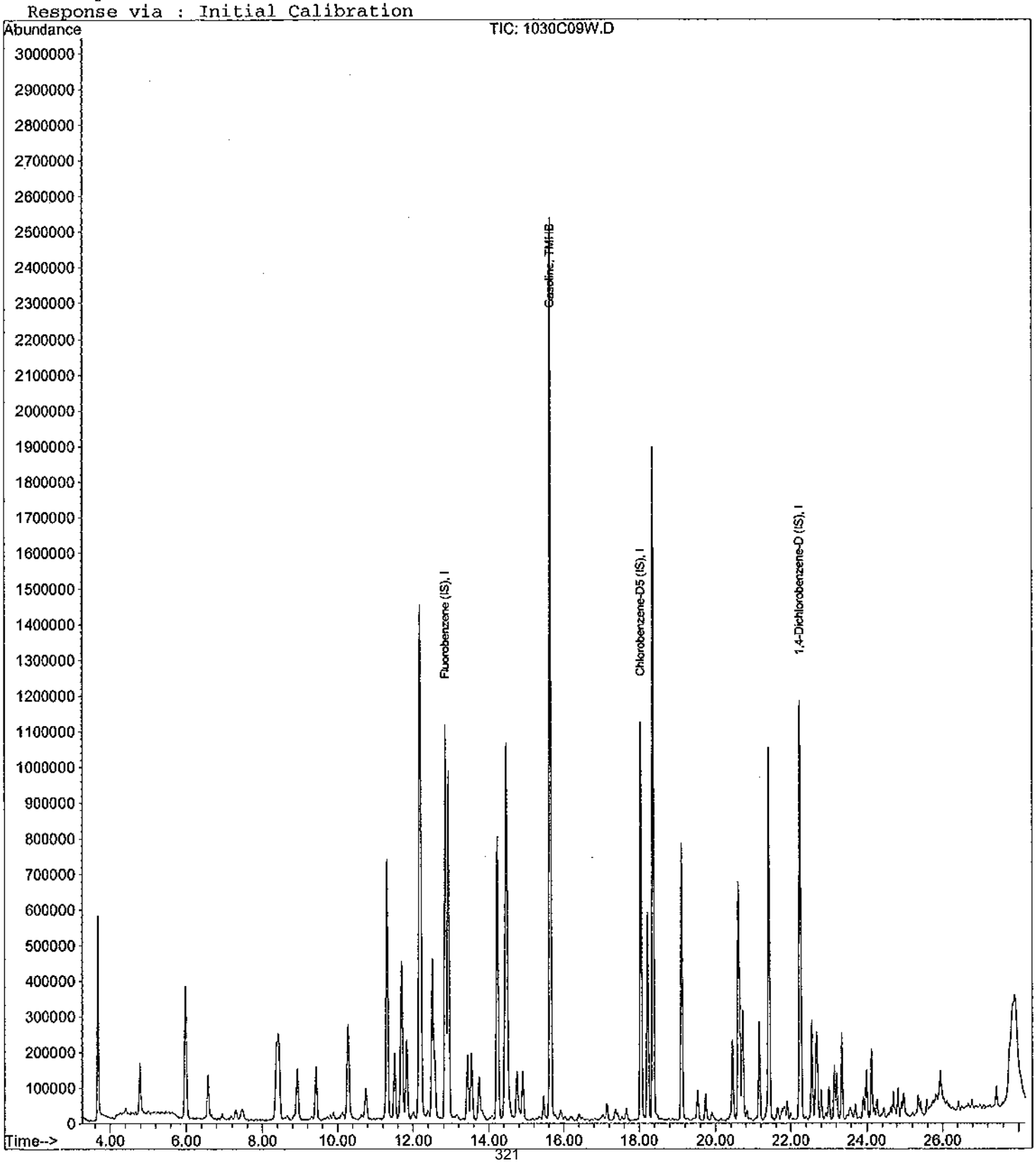
Target Compounds						Qvalue
2) Gasoline	15.64	TIC	65808275m	262.45271	ppb	100

Quantitation Report

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

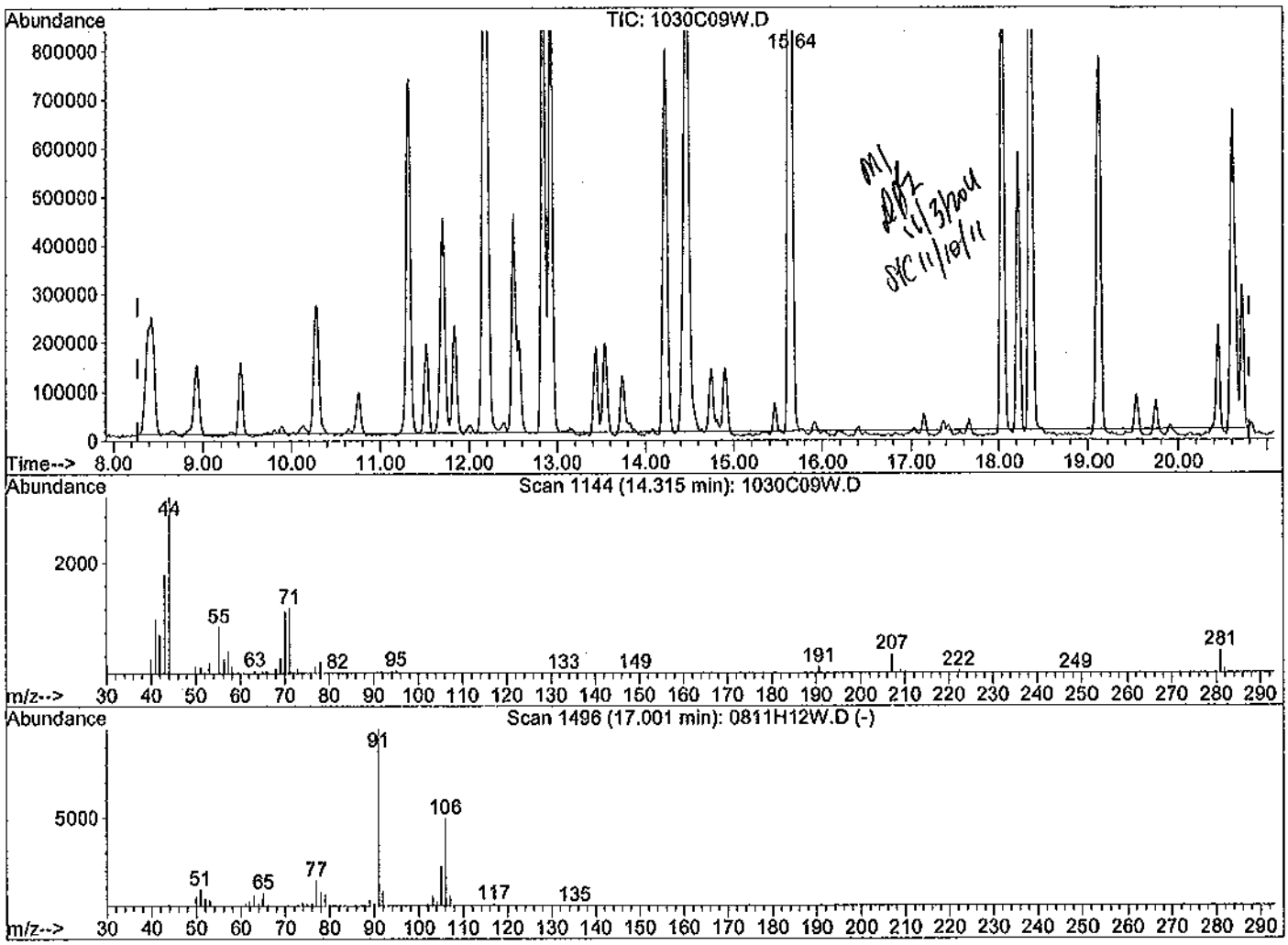
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C09W.D 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: Oct 31 9:32 2011 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

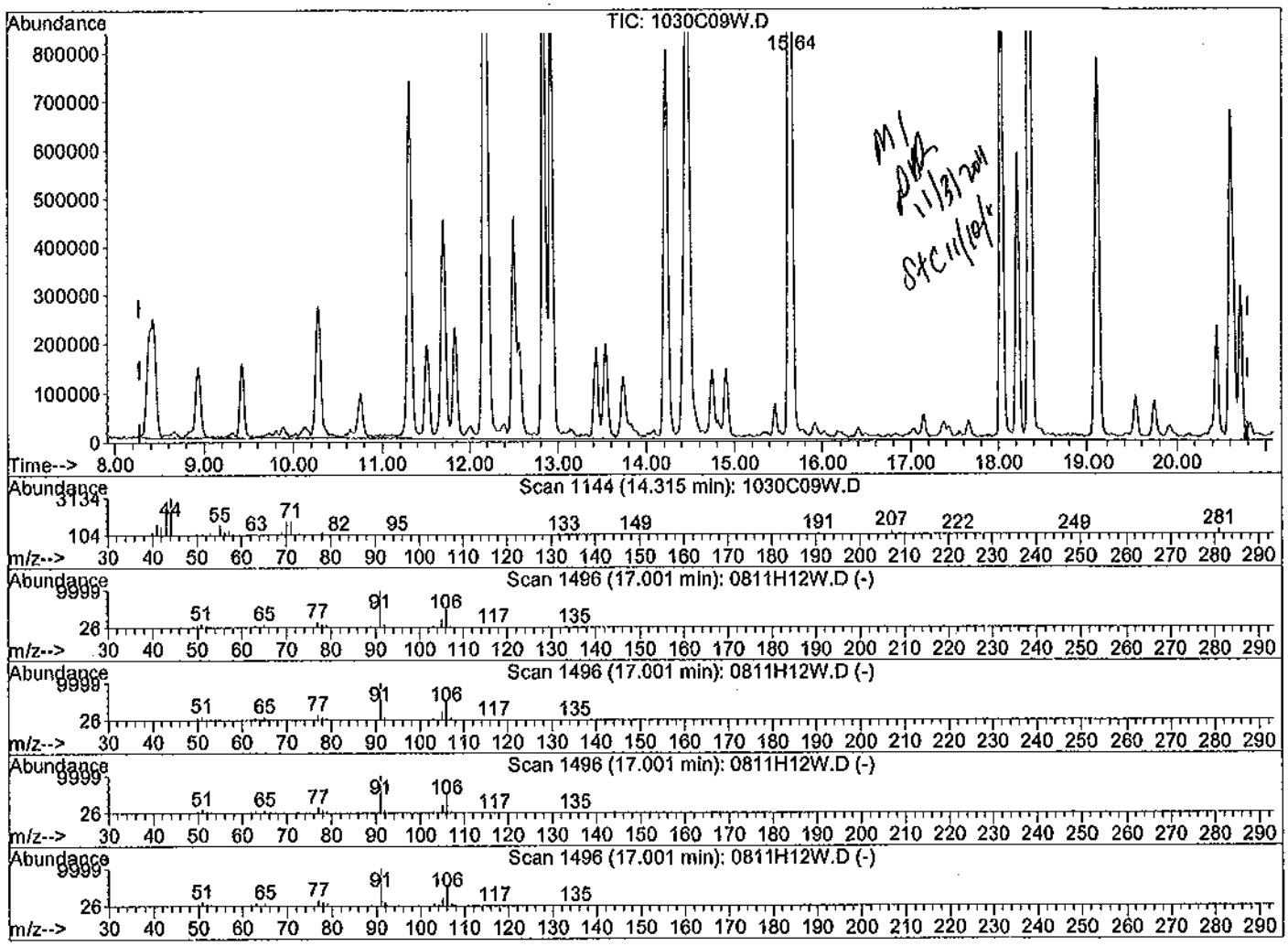
response 57960938

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 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: 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						Qvalue
2) Gasoline	15.63	TIC	84666447m	330.10723	ppb	100

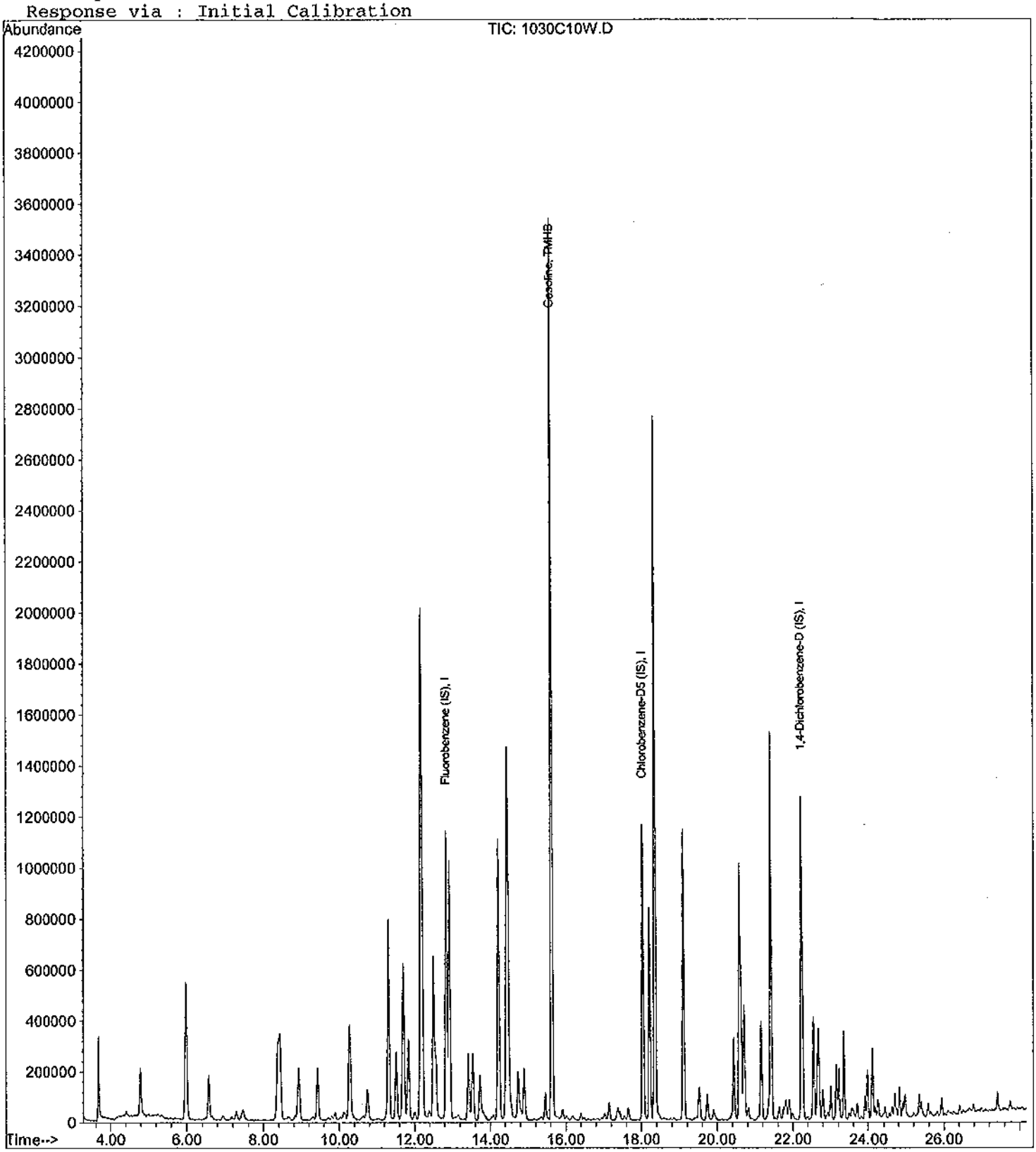
(#) = qualifier out of range (m) = manual integration
1030C10W.D CGAS.M Thu Nov 03 11:12:19 2011 Page 1

Quantitation Report

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

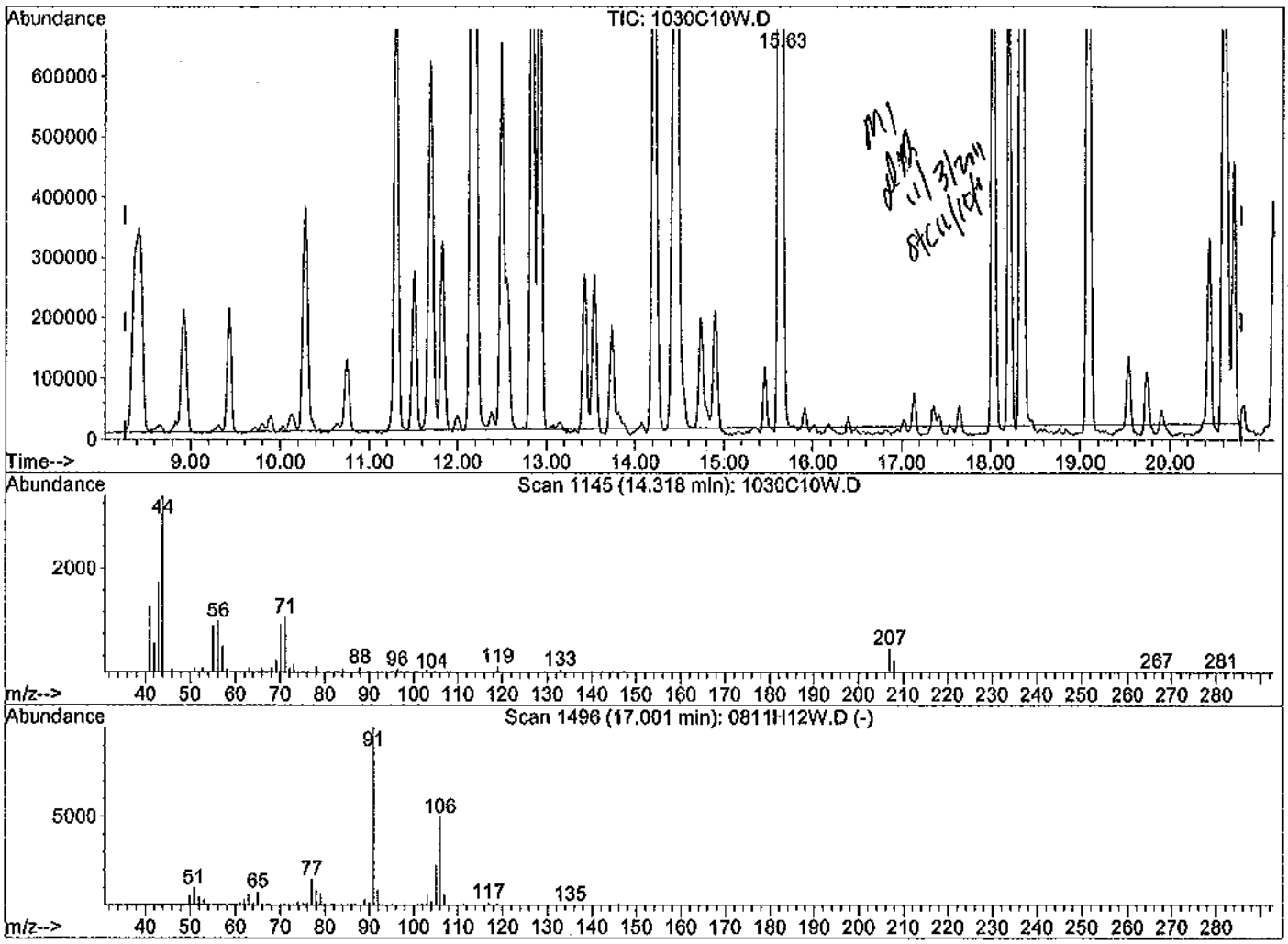
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C10W.D 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: Oct 31 9:32 2011 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

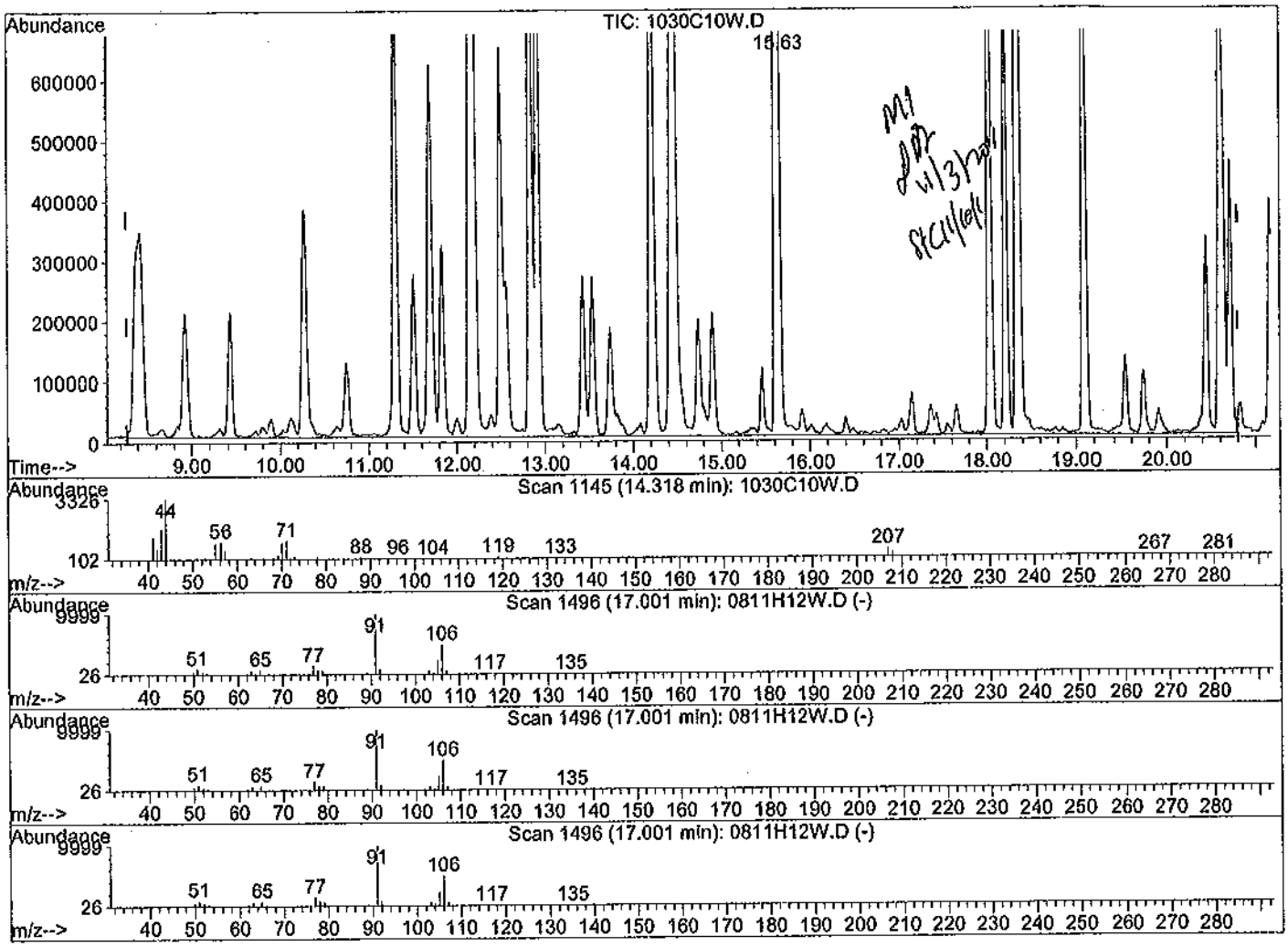
response 77947975

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 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: 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						Qvalue
2) Gasoline	15.63	TIC	105748641m	400.59060	ppb	100

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

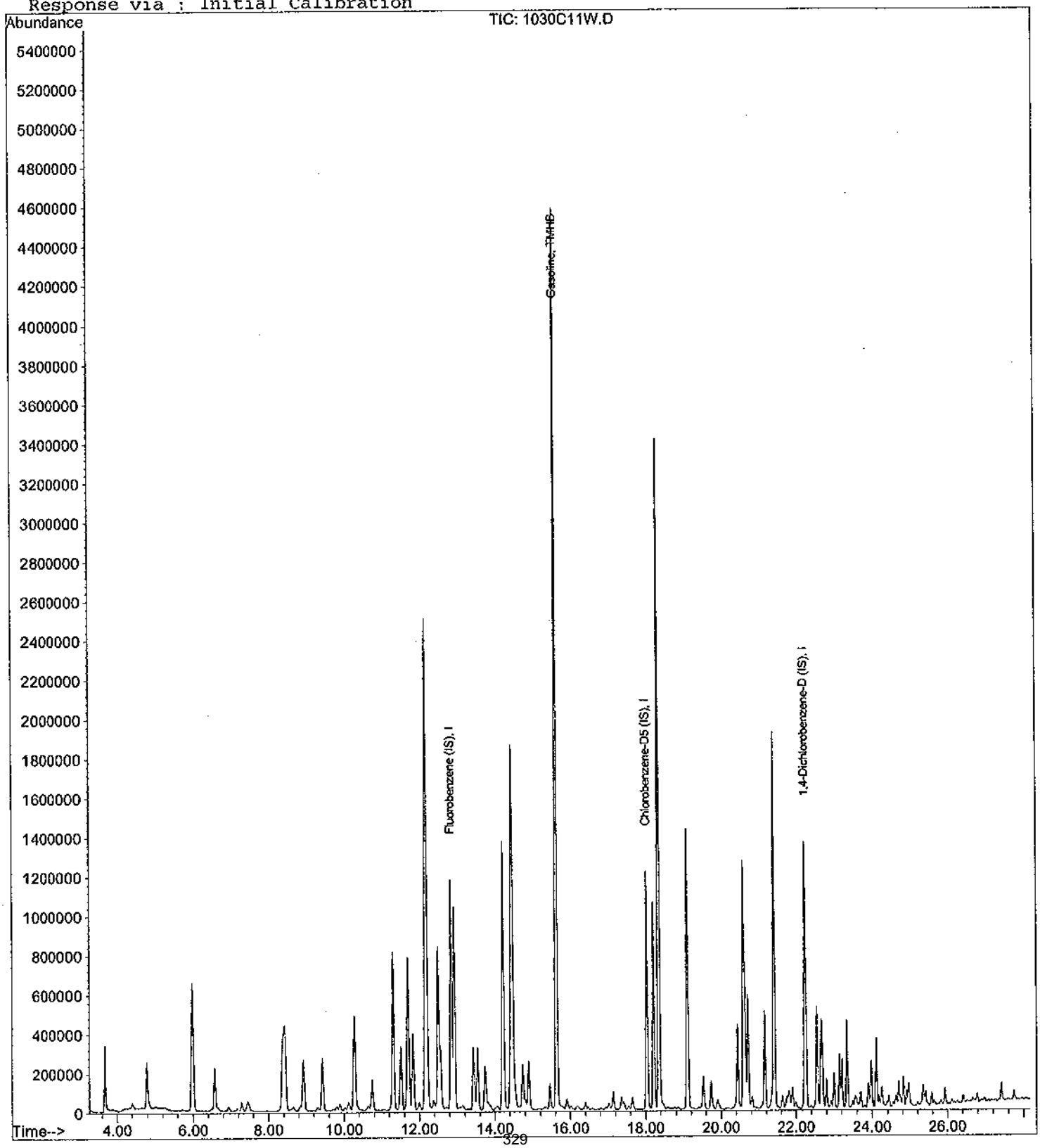
Quantitation Report

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

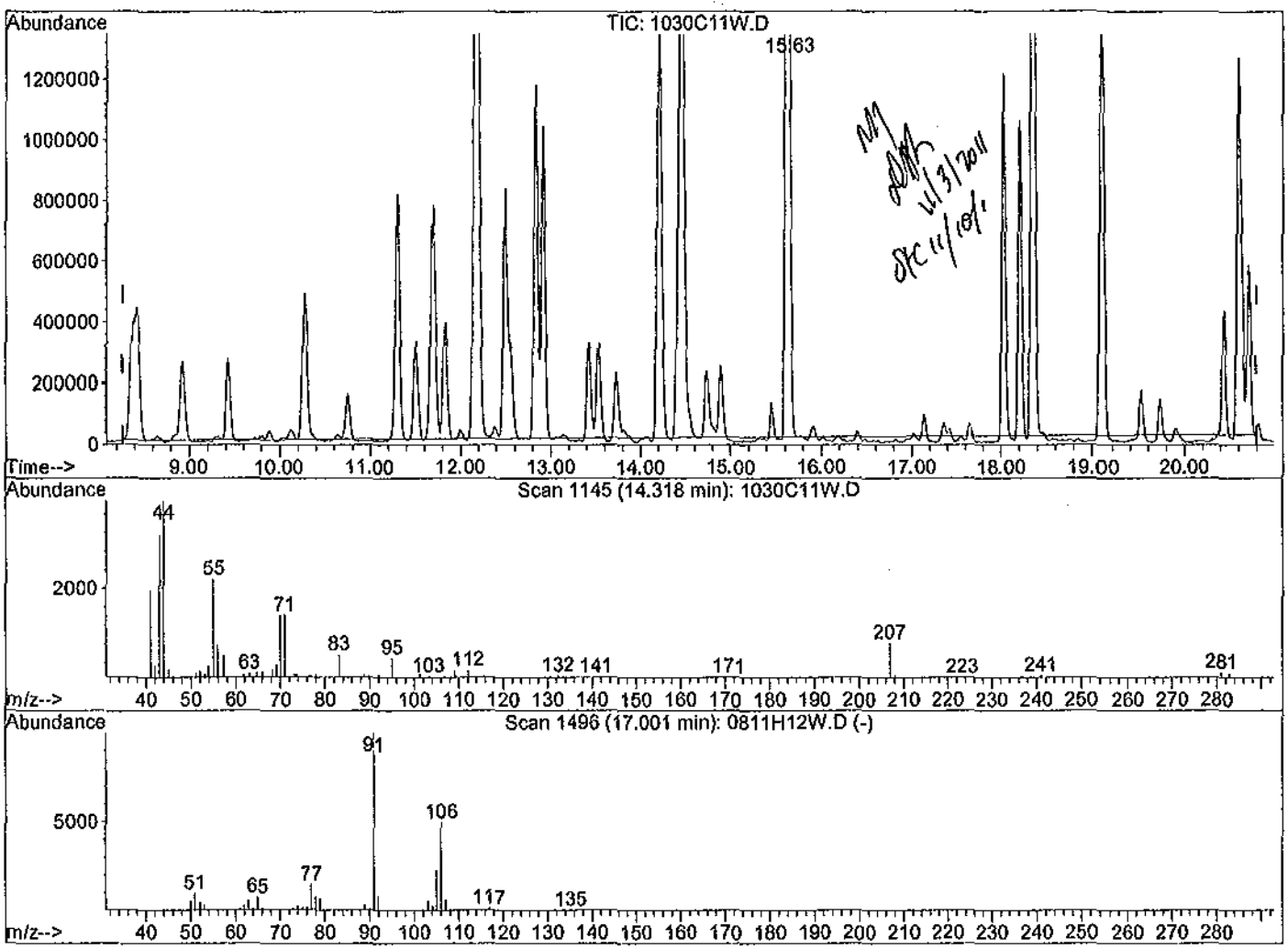
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C11W.D 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: Oct 31 9:33 2011 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

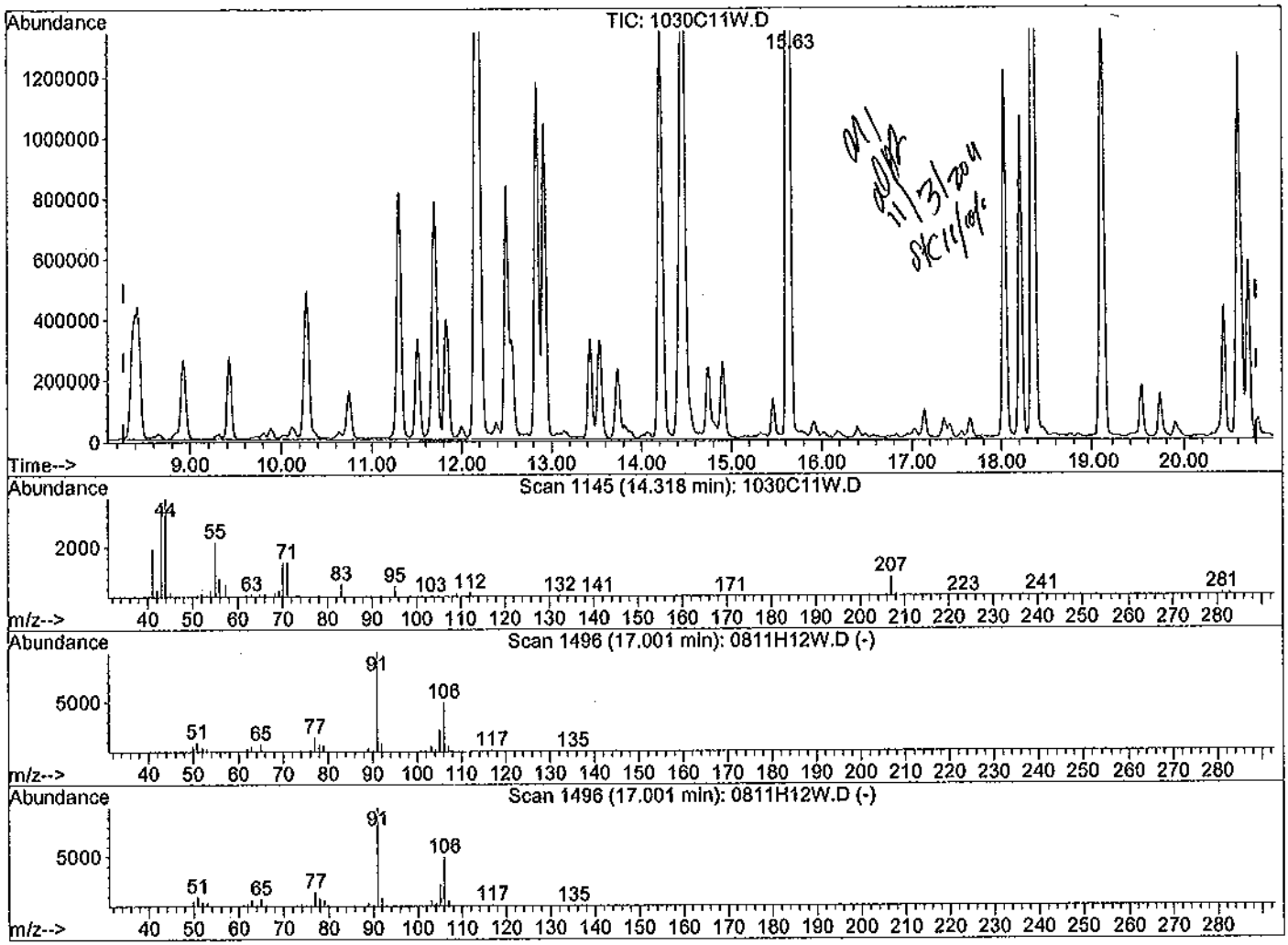
response 97309775

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 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: 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



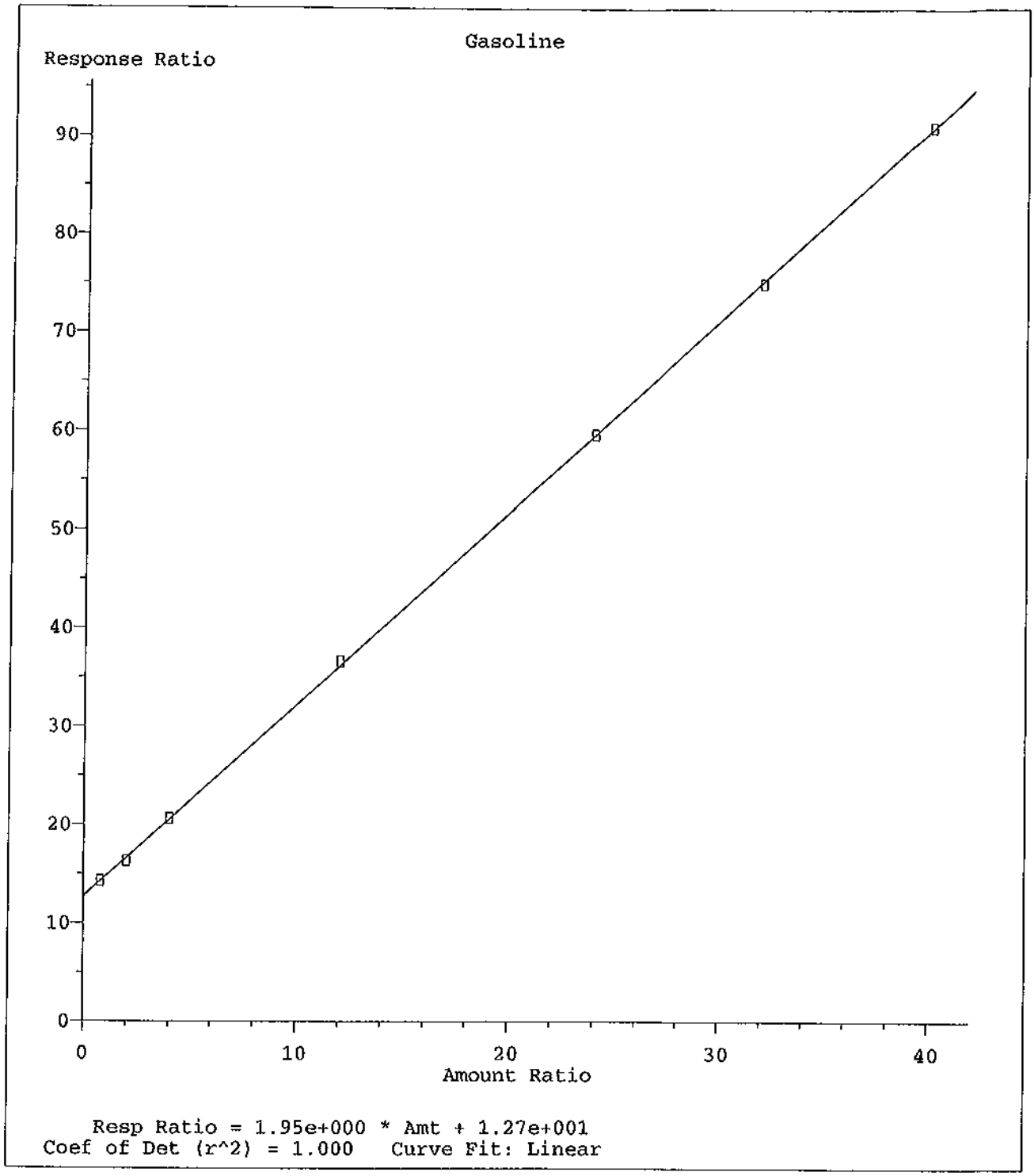
TIC: 1030C11W.D

(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	5.897	3.226	45	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							
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			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						Qvalue
2) Gasoline	15.63	TIC	46900368m	332.66187	ppb	100

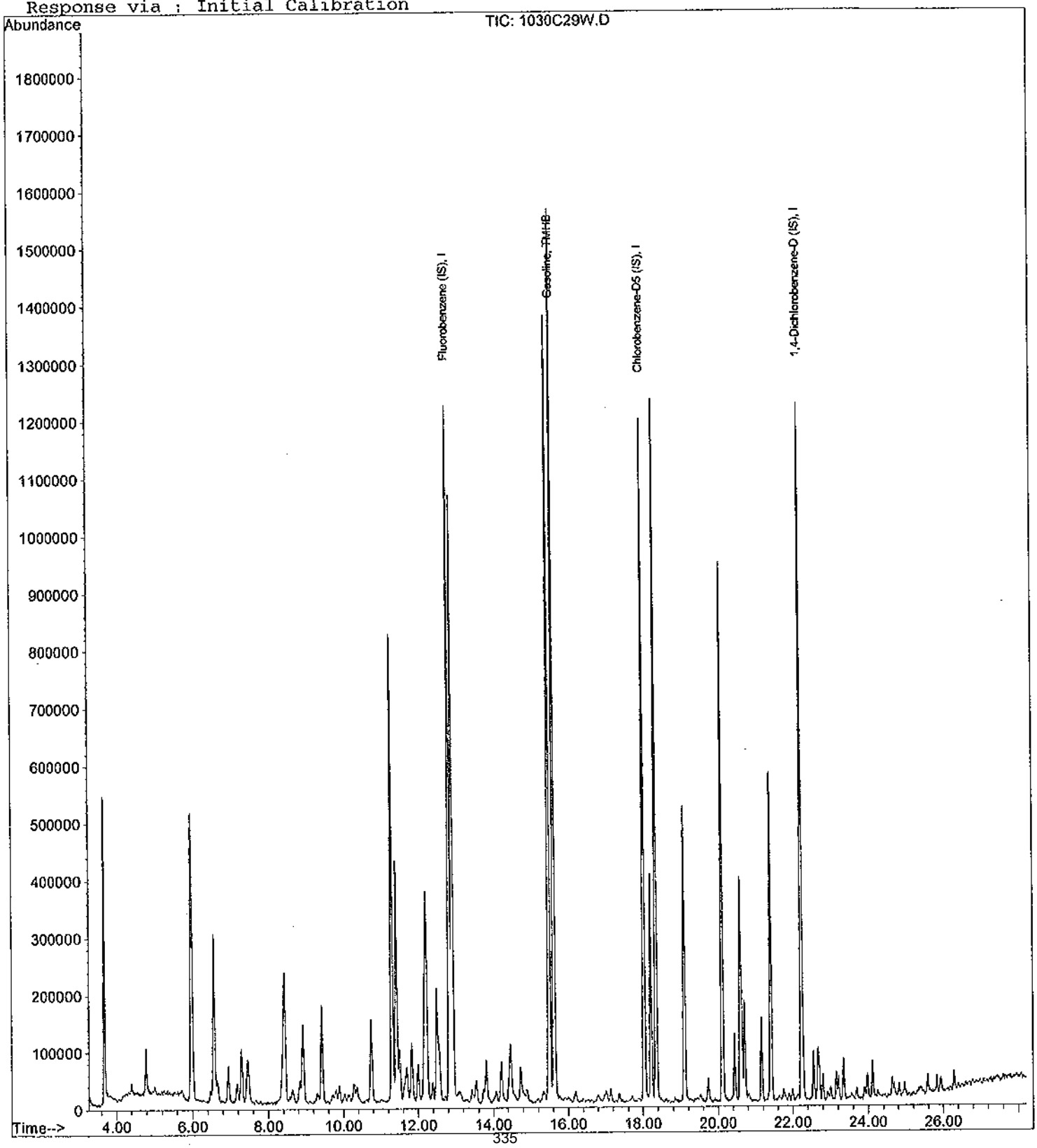
Quantitation Report

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

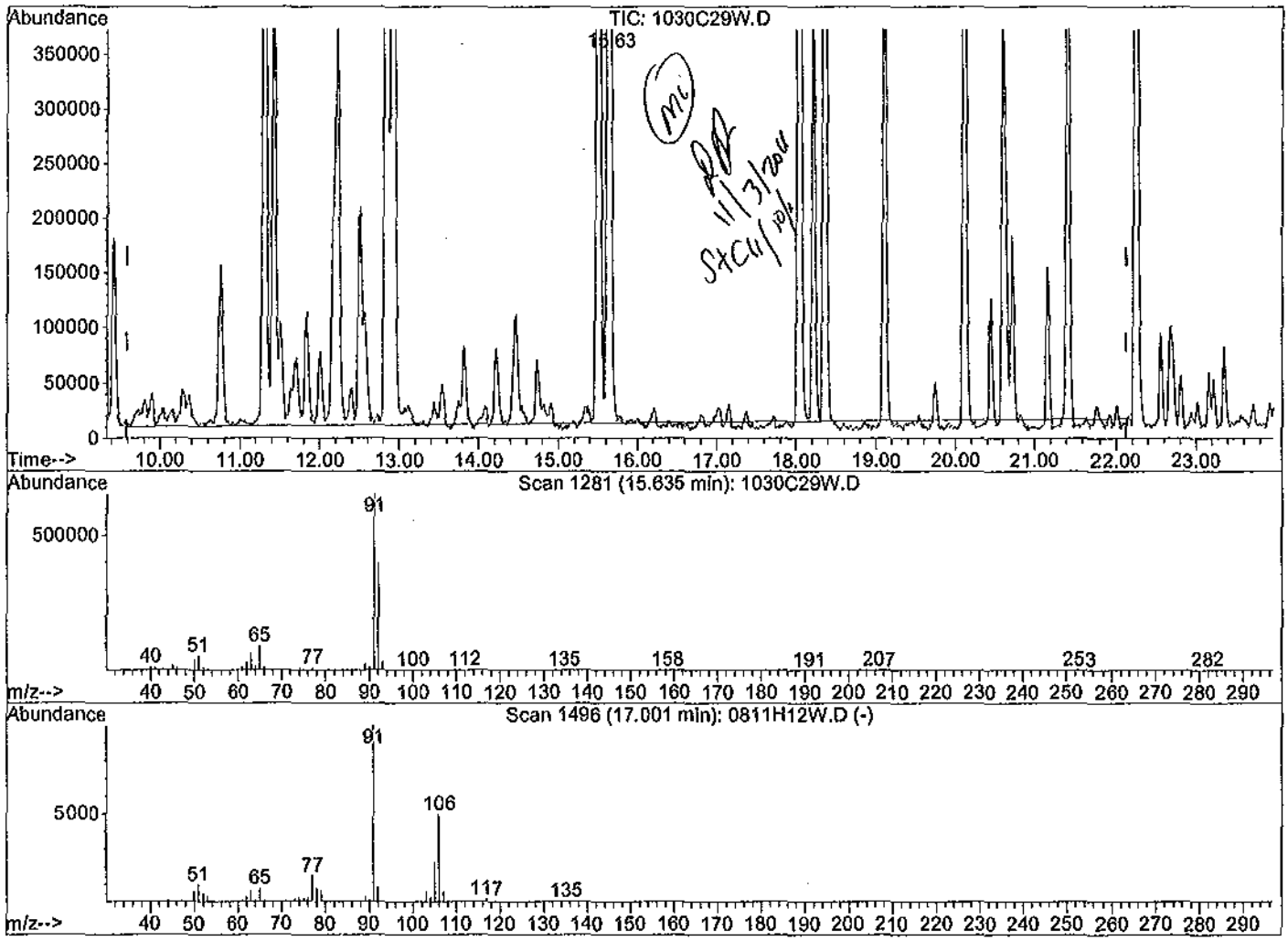
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



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

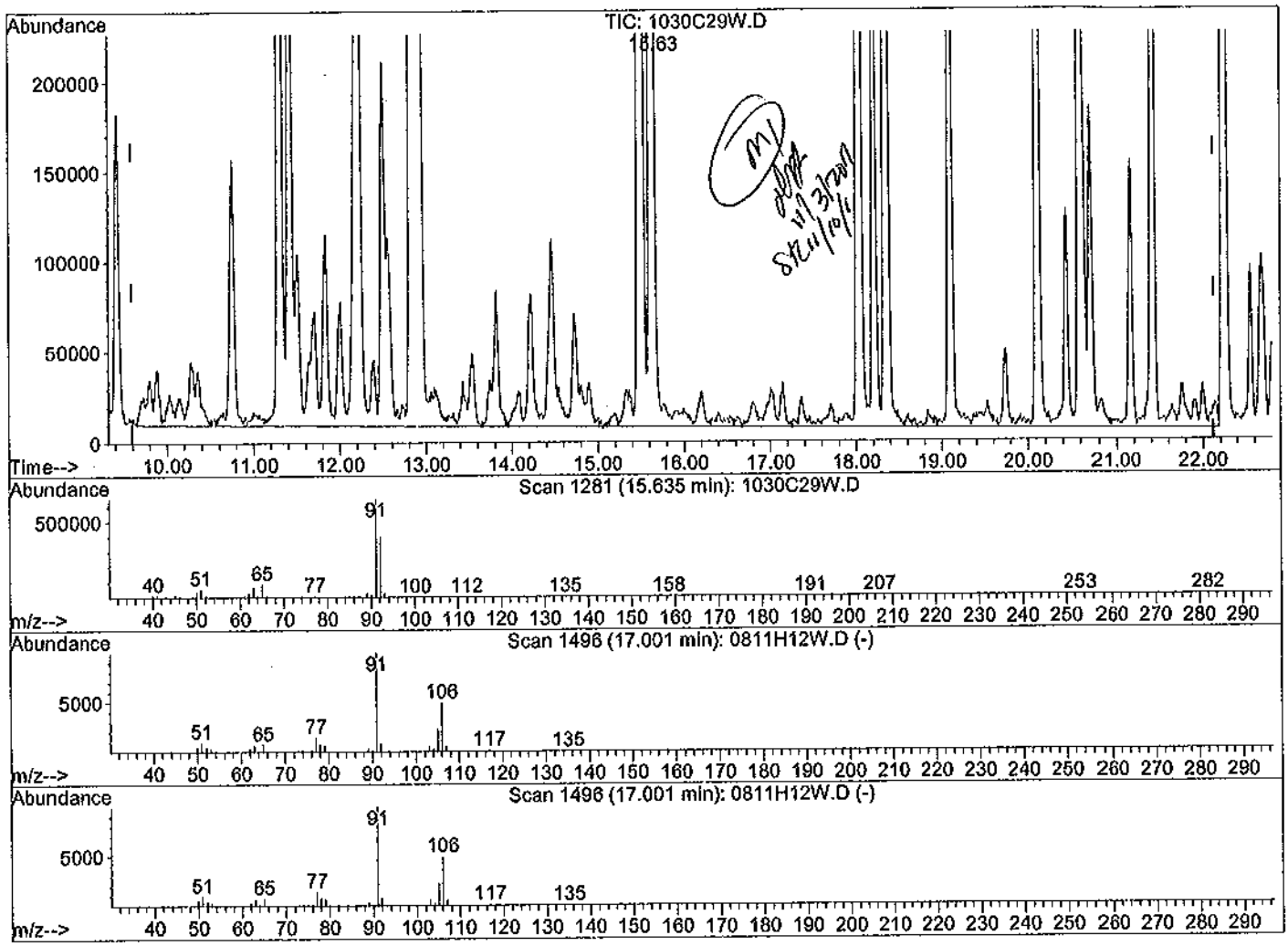
response 41492142

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 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: 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	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline	5.897	3.269	45	TMHBL	13
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
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			45.0		

Quantitation Report (QT Reviewed)

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						Qvalue
2) Gasoline	15.51	TIC	52385955m	339.25990	ppb	100

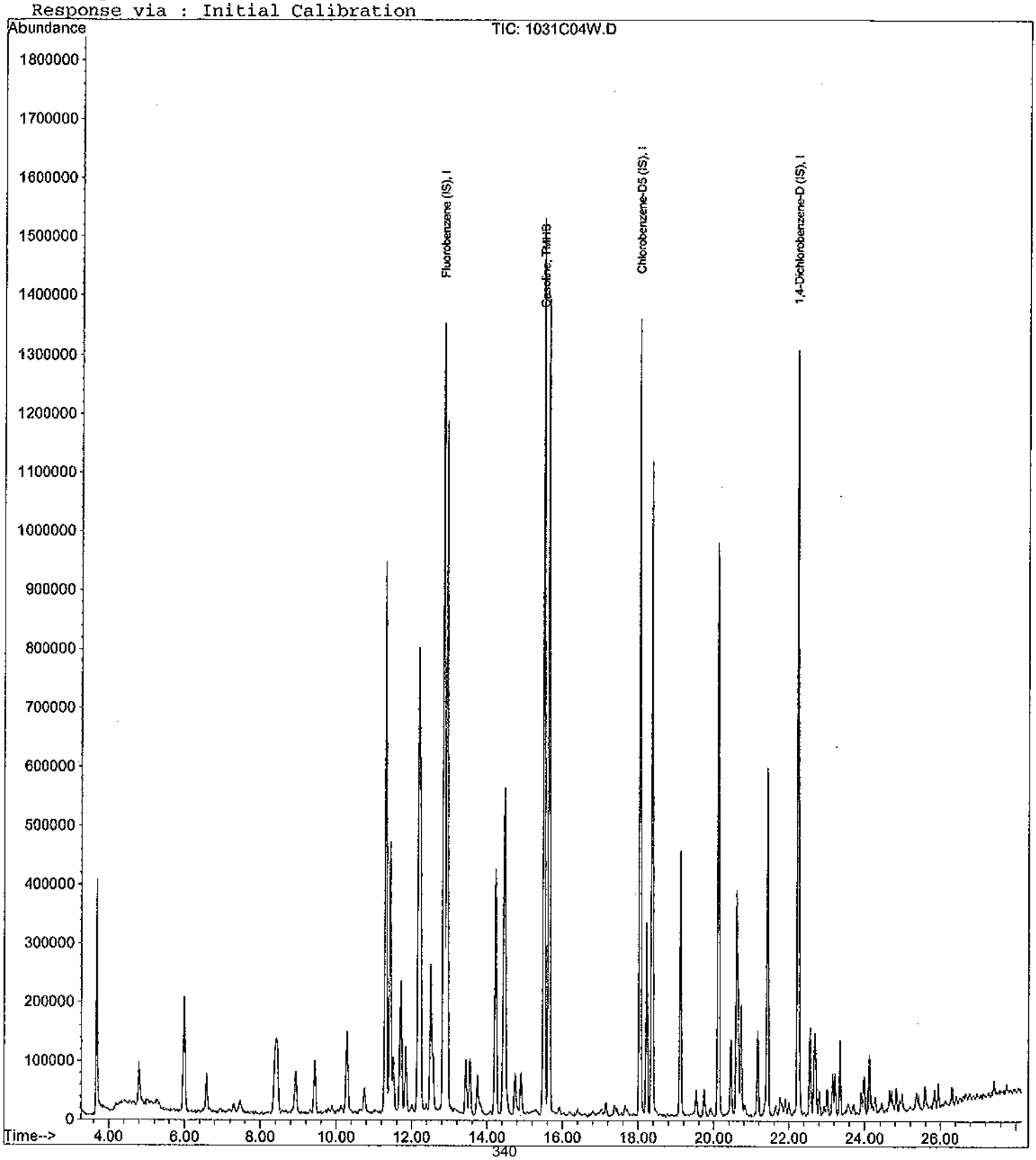
(#) = qualifier out of range (m) = manual integration

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: CGAS.RES

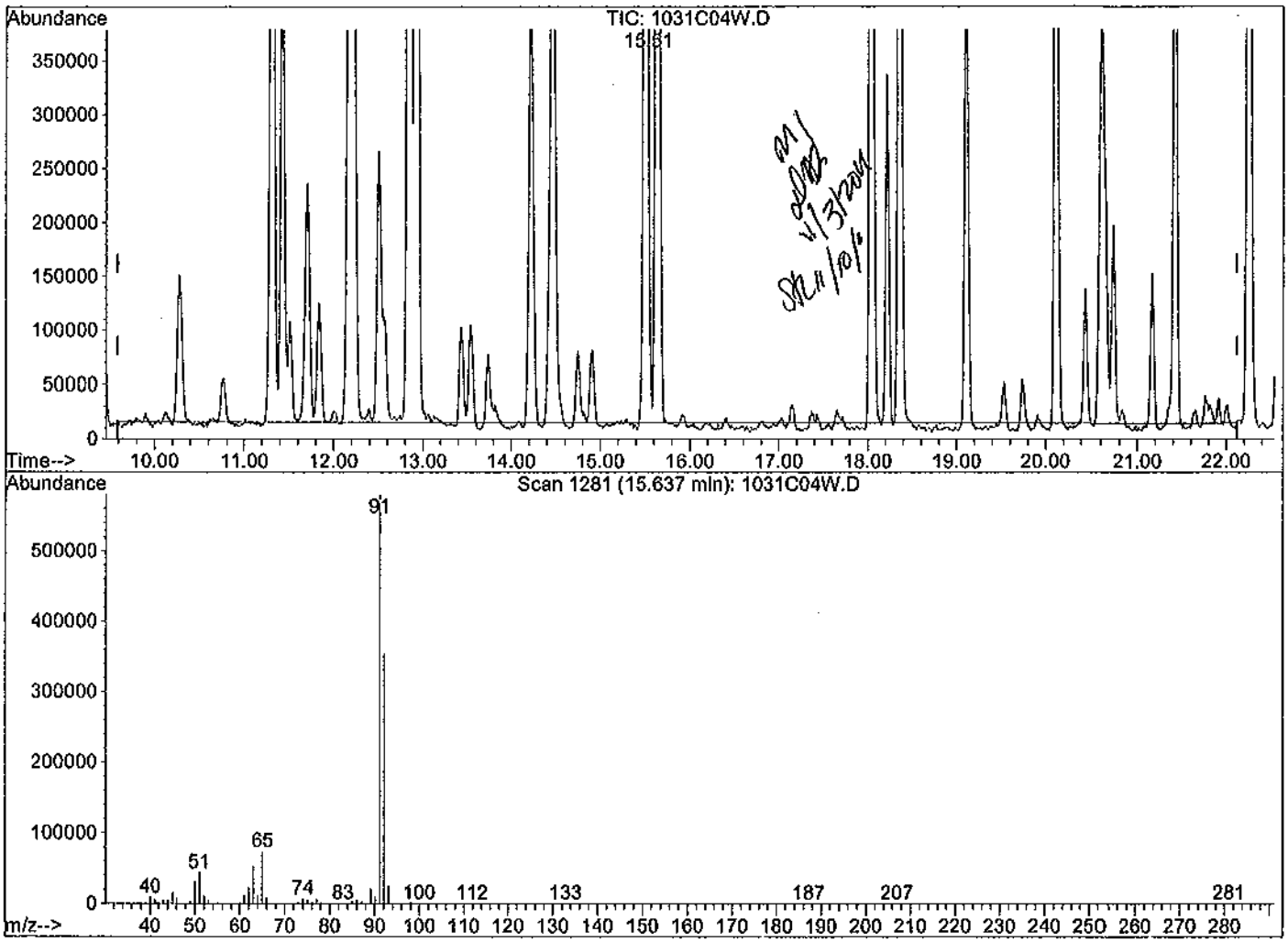
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C111030\1031C04W.D 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 10:56 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)

15.64min 304.2107ppb m

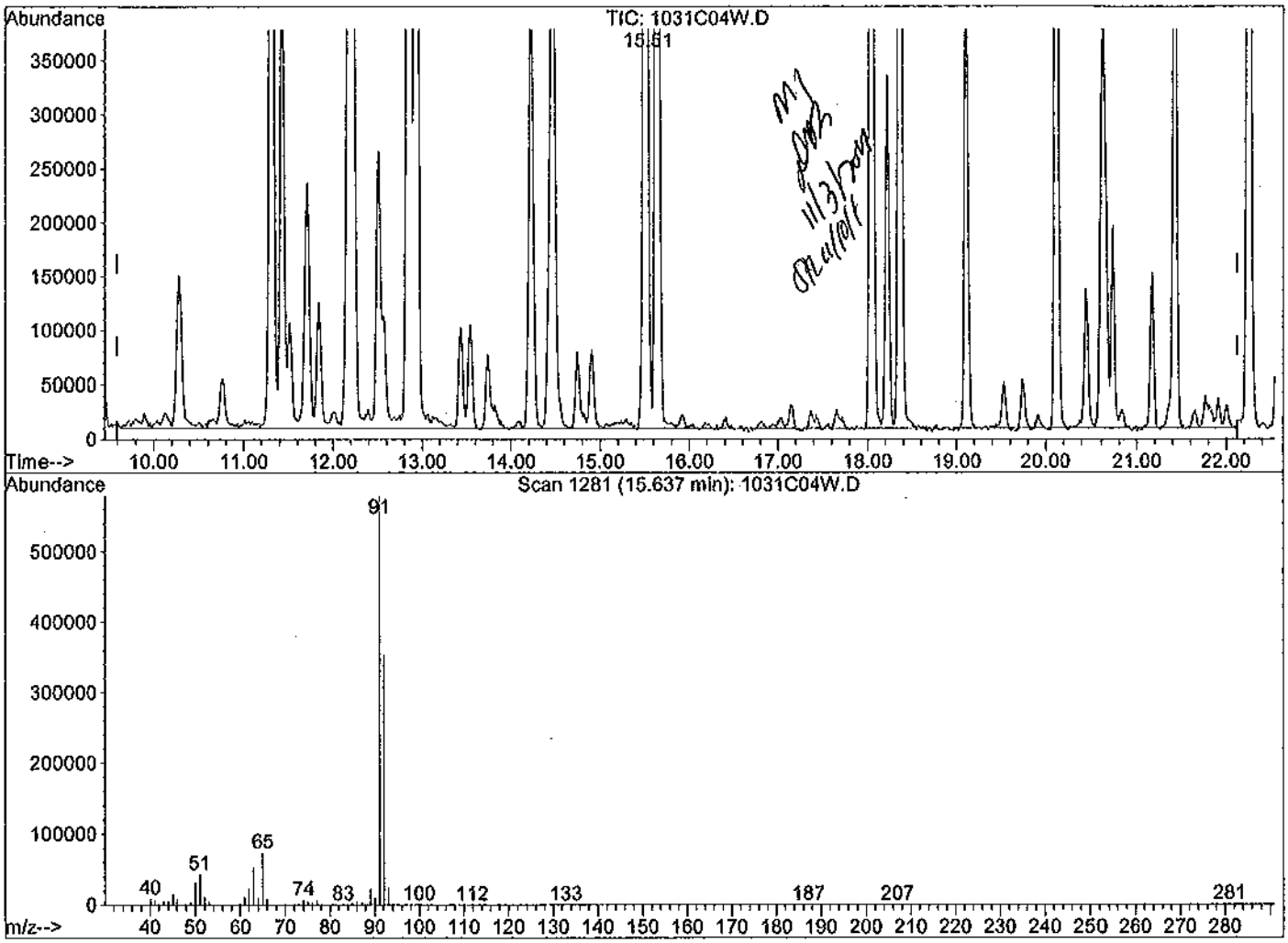
response 48727700

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

APPL, INC.

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **111031W-49559 - 161078**
Batch ID: #86RHB-111031AC

APPL Inc.
908 North Temperance Avenu
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 6:14:23 PM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **111031W-49559 - 161078**

Batch ID: #86RHB-111031AC

APPL Inc.
908 North Temperance Avenu
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

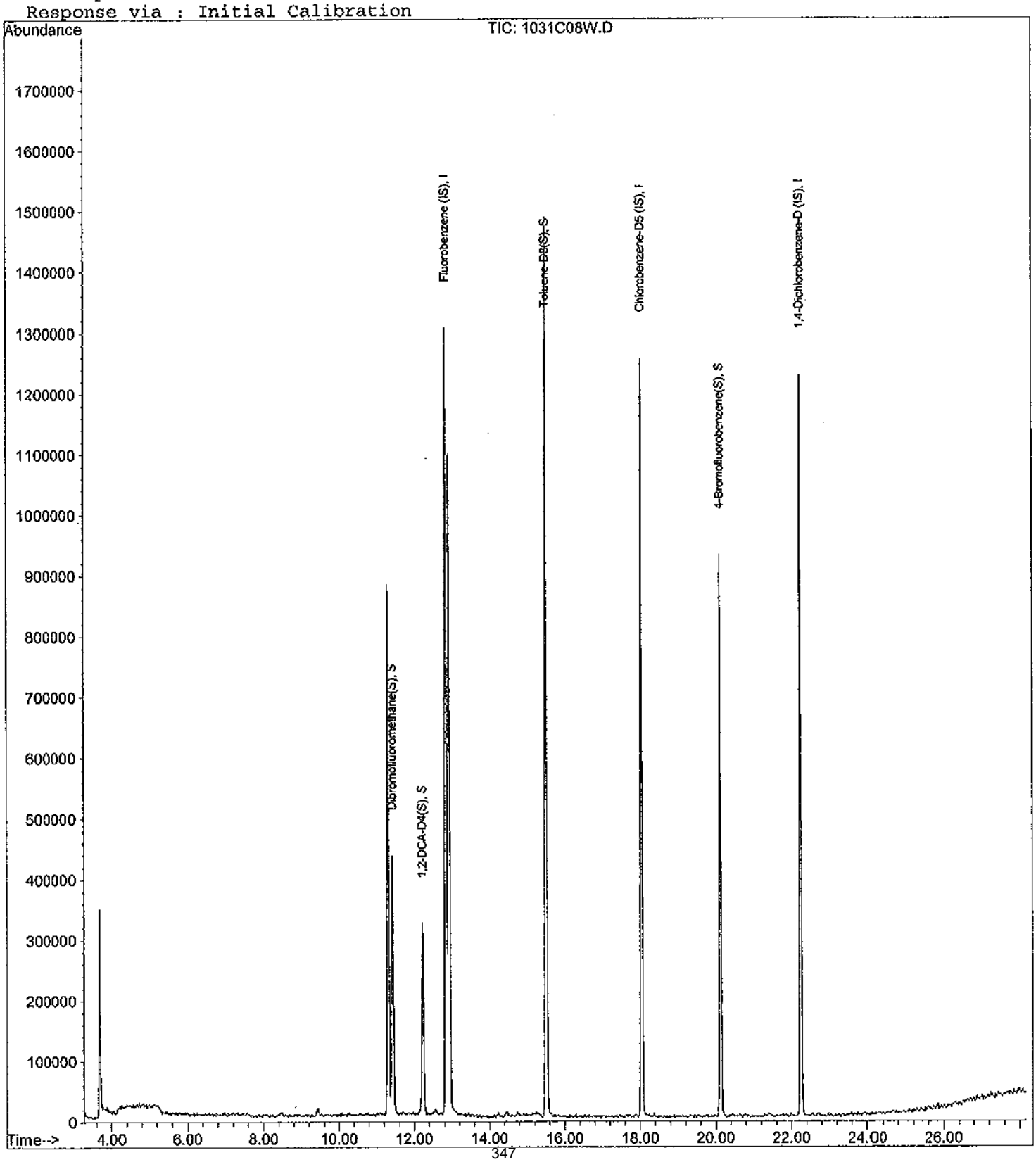
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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



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 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

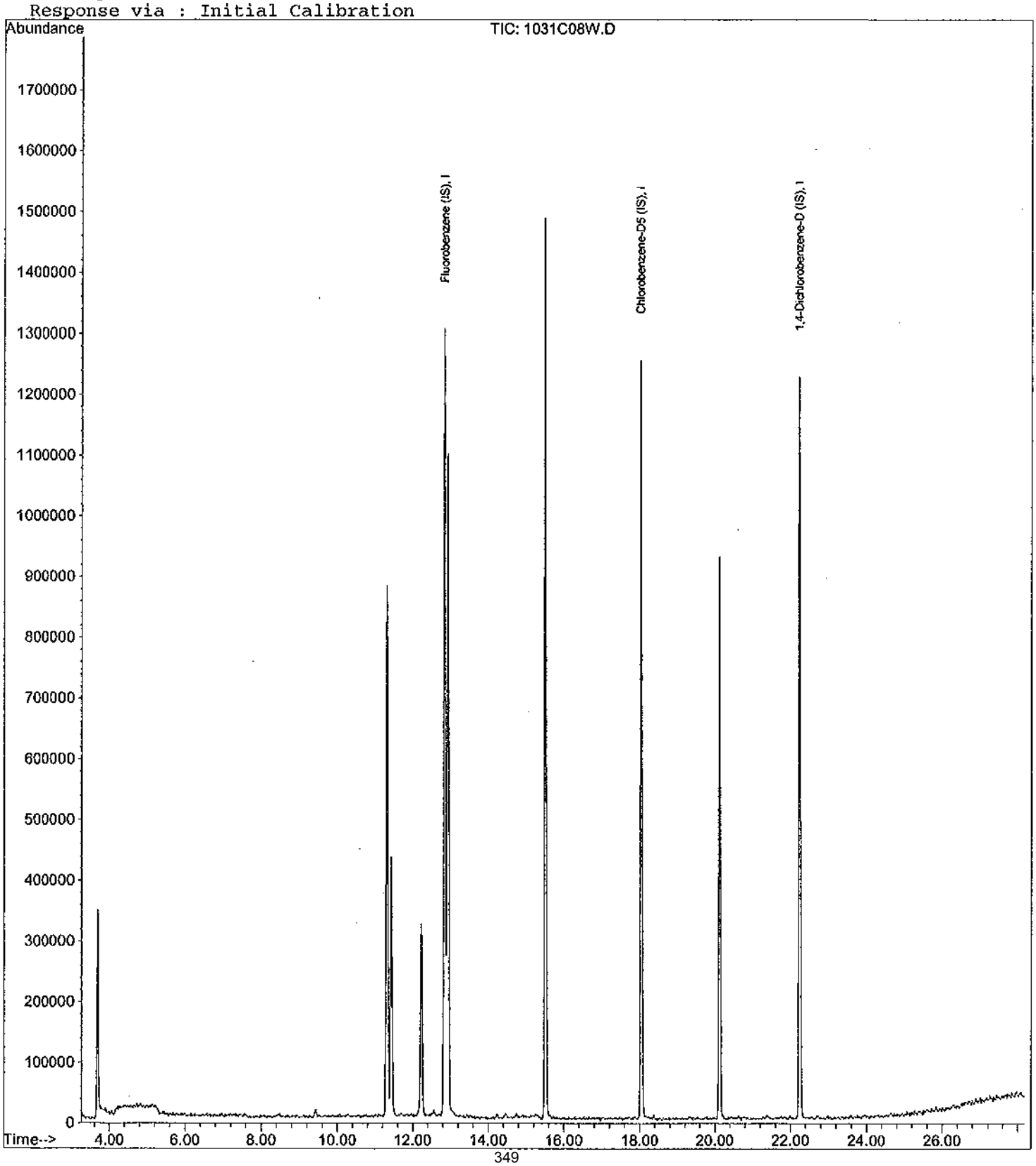
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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: _____

Primary	SPK
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
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: _____

Primary	SPK
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

Quantitation Report (Not Reviewed)

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

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						
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						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

Quantitation Report (Not Reviewed)

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
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

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

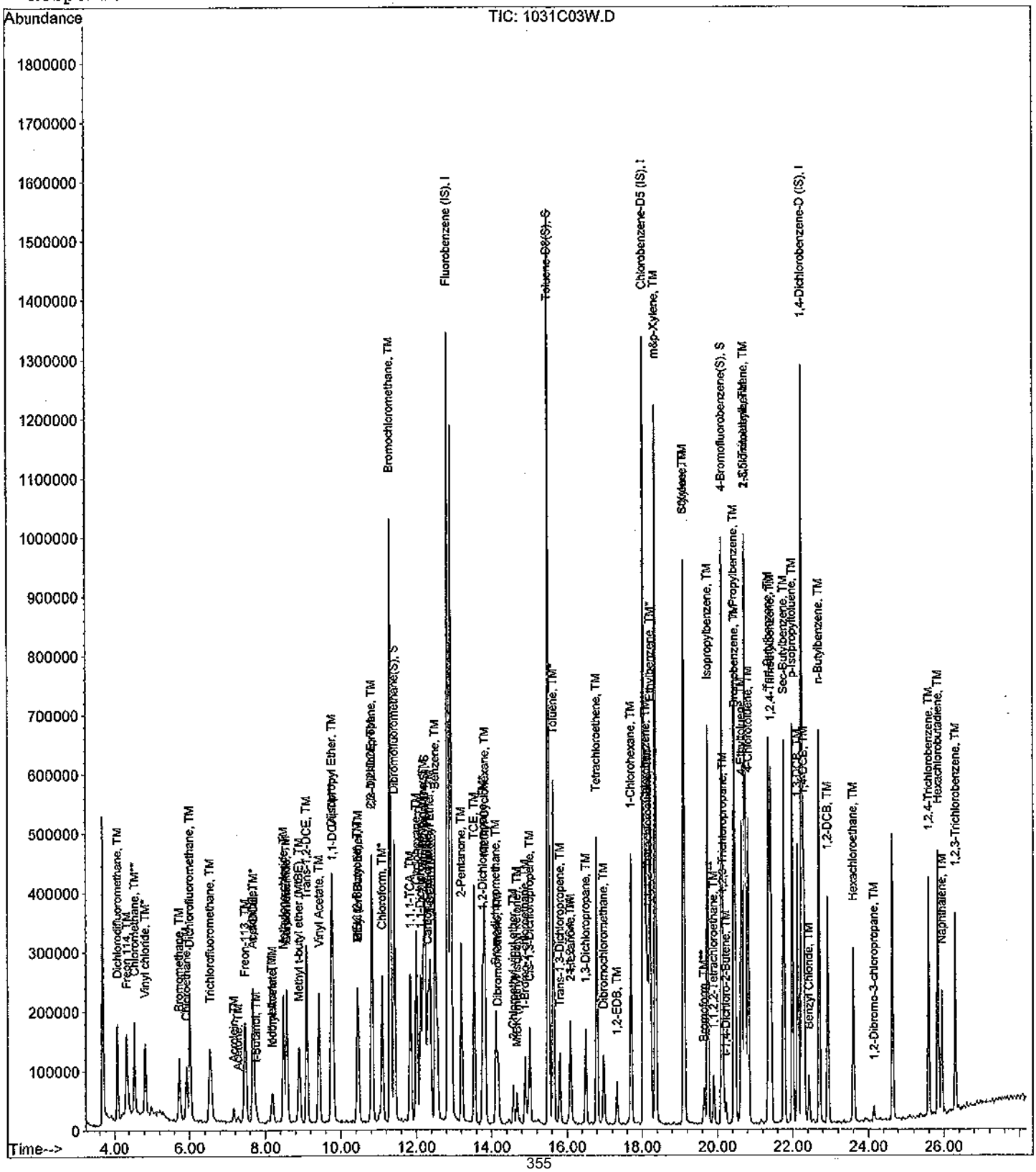
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

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 (Not Reviewed)

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						Qvalue
2) Gasoline	15.64	TIC	48291384m	302.02962	ppb	100

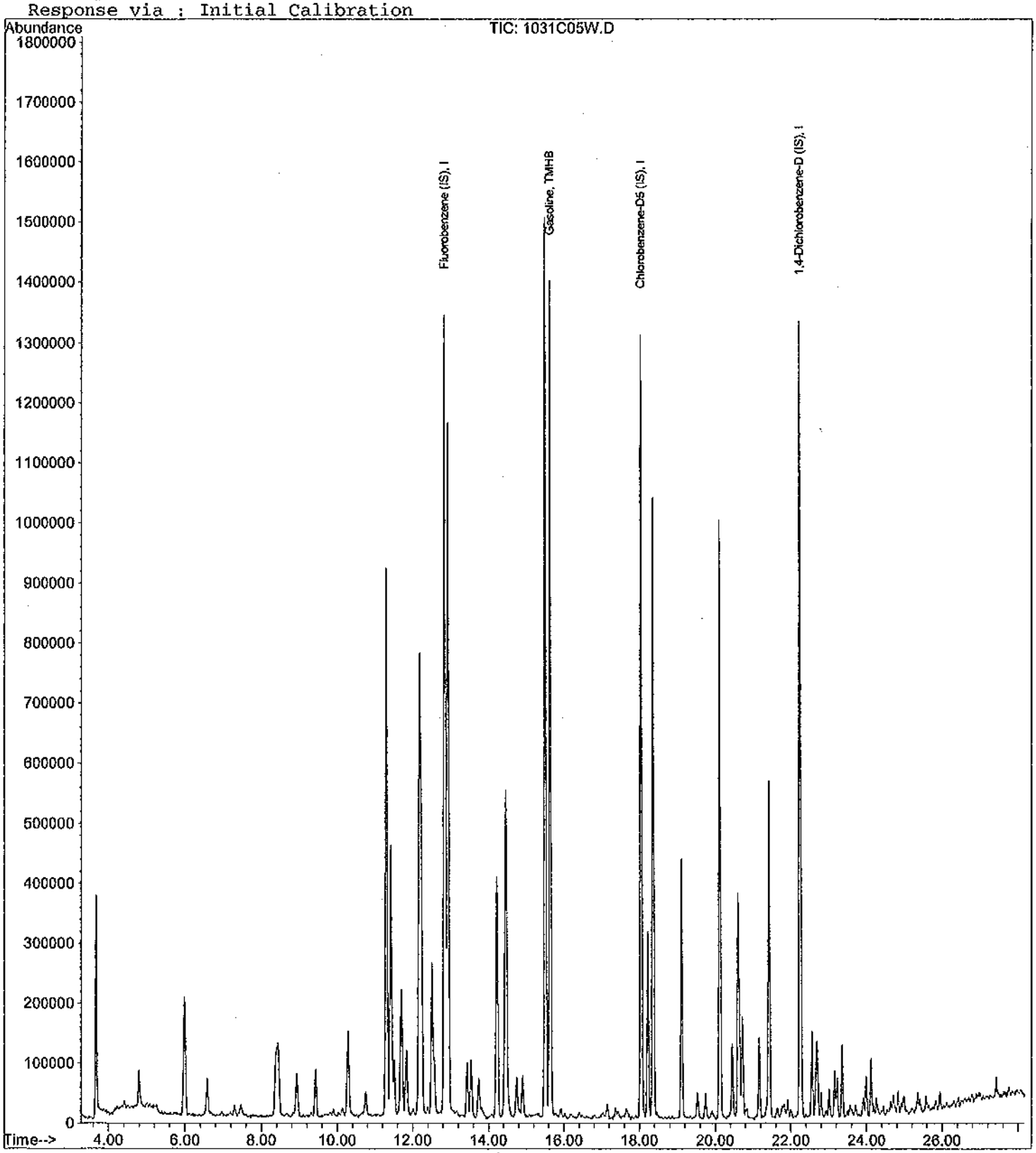
(#) = qualifier out of range (m) = manual integration

Quantitation Report

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

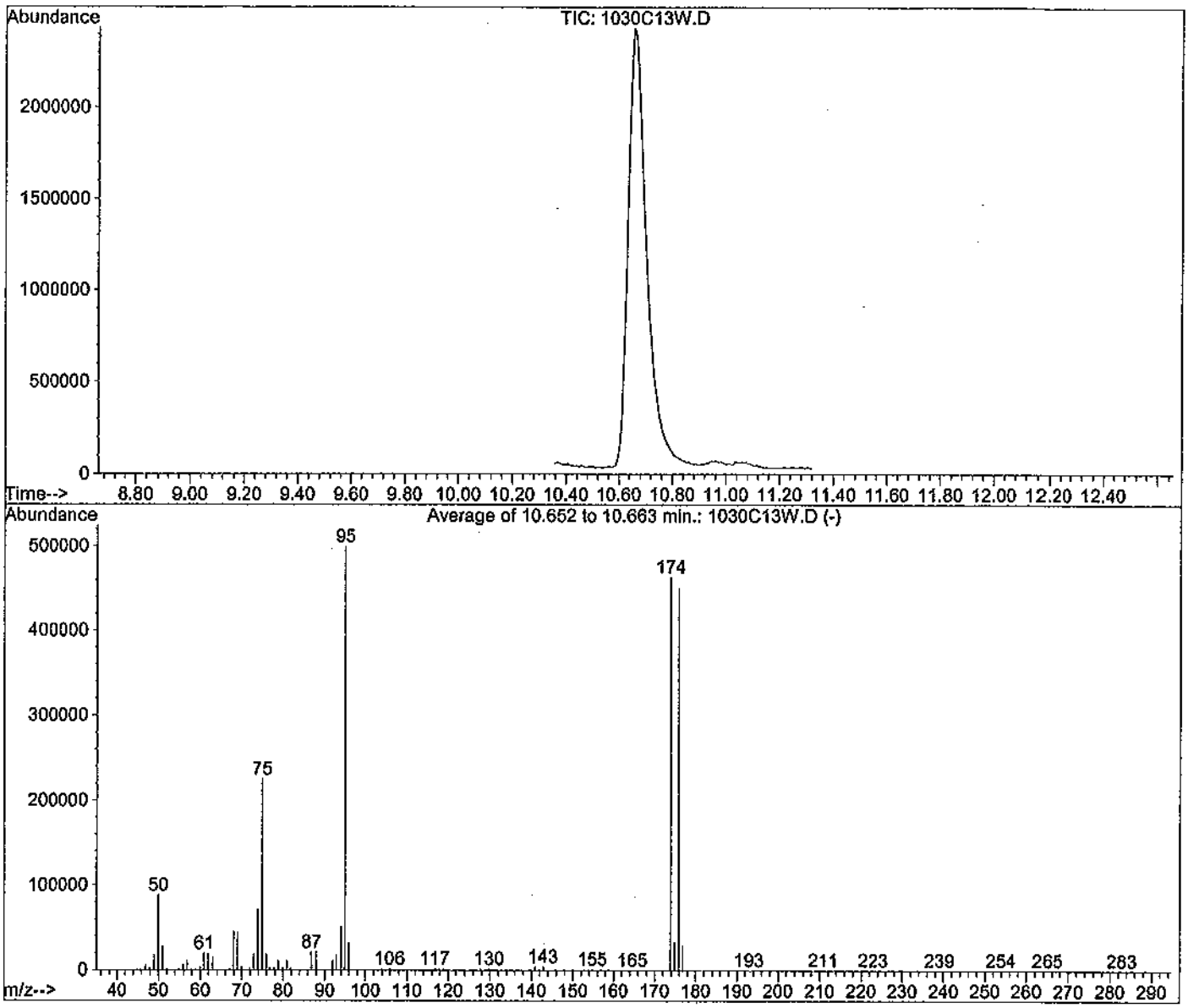
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



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

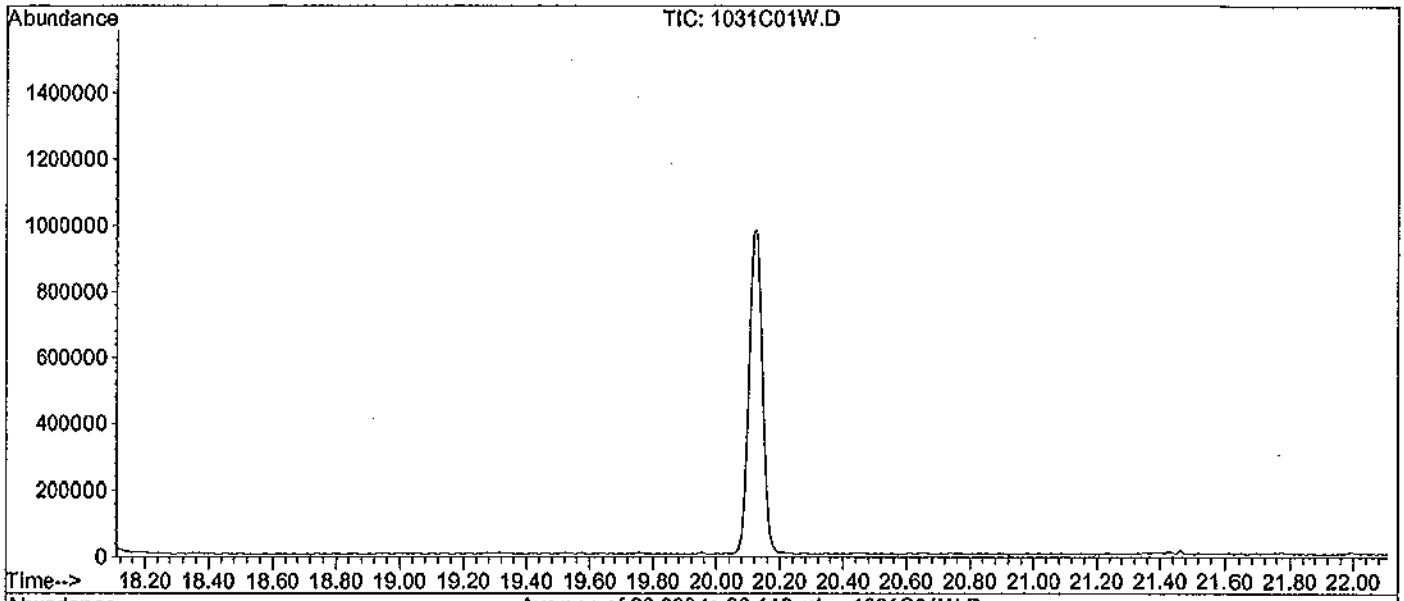


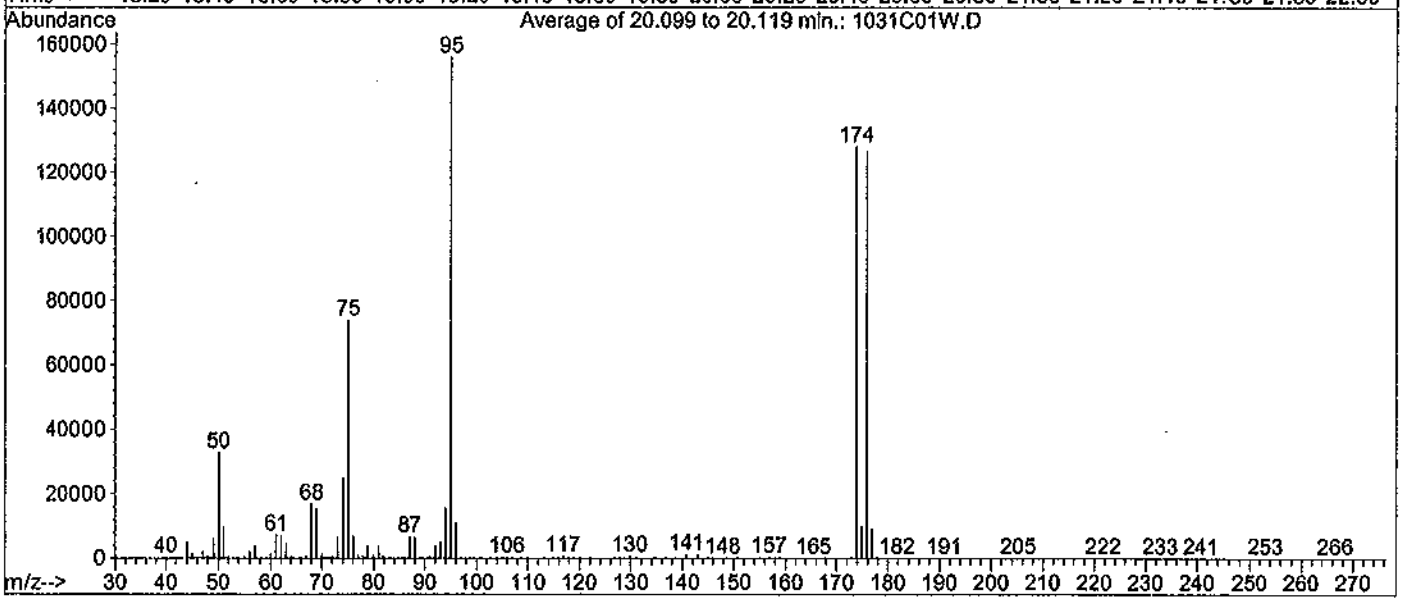
AutoFind: Scans 52, 53, 54; Background Corrected with Scan 36

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

Data File : M:\CHICO\DATA\C111030\1031C01W.D Vial: 1
Acq On : 31 Oct 11 19:50 Operator: STC
Sample : 20ug/mL BFB STD10-19-11 Inst : Chico
Misc : Water 2ul 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 soil)-THOR

	Expiration Date:		08/16/11								
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	5ug/mL Vol Std #2	50ug/mL Vol Std #12
Date	Conc.	08-10-11R	08-10-11V	08-10-11N	08-10-11P	08-10-11U	08-10-11S	08-10-11O	08-10-11Q	08-10-11T
Code	ug/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

8-15-11
RS

250ug/mL TBA	Final Vol
08-10-11W	w/PAT 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 (8260 soil)-THOR

	Expiration Date:		08/17/11							
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	5ug/mL Vol Std #2	50ug/mL Vol Std #12
Date	Conc.	08-10-11R	08-10-11V	08-10-11N	08-10-11P	08-10-11U	08-10-11S	08-10-11O	08-10-11Q	08-10-11T
Code	ug/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

8-16-11
RS

250ug/mL TBA	Final Vol
08-10-11W	w/PAT H2O
Exp:08-17-11	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

8-19-11
A -
RS

Method 8260 Gases, 2,000 mg/L, 2 X 0.6 ml

120016-03

Lot #	Storage	Expiry
170302	≤ -10 Degrees C	3/11/14

Solvt: P/T Methanol

Method 8260 Gases
Lot #: 170302 - 28666
Rec: 4/20/11 MFR exp. 03/11/14

8-19-11
B -
RS

Method 8260B Surrogate Solution, 2,000 mg/L, 1 ml

120002-01

Lot #	Storage	Expiry
164585	≤ -10 Degrees C	10/12/13

Solvt: P/T Methanol

Method 8260B Surrogate
Lot #: 164585 - 28720
Rec: 4/20/11 MFR exp. 10/12/13

8-19-11
C -
RS

VOC Mix 4-3, 2,000 mg/L, 1 ml

120166-01

Lot #	Storage	Expiry
171714	≤ 6 Degrees C	4/11/13

Solvt: P/T Methanol

VOC Mix 4-3, 2000mg/L
Lot #: 171714 - 29243
Rec: 8/5/11 MFR exp. 04/11/13

GC/MS STANDARD PREPARATION BOOK # 58 PAGE # 4

		08-17-11V	Exp:	08/24/11			
		5ug/ml Vol Work Std #9					
		SOURCES	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			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		08-17-11S	09/02/11	200	
		J&T Brand		08/12/12	06/08/12	1800	
		08-17-11X	Exp:	08/24/11			
		5ug/ml Vol Work Std #12					
		SOURCES	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
O2SI	120002-01	8260B Surr Solution	2000	164585-28720	08-17-11B	09/14/11	100
J&T Brand		Purge & Trap MeOH		K07E34-00543	08/12/12	10/14/11	3900
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		Purge & Trap MeOH		08/05/12	06/08/12	1600	
08-17-11AA							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:08/24/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
O2SI	120166-01	Volatile Mix 4-1	2000	171714-29243	08-17-11C	12/17/11	500
O2SI	020229-09	Acrolein	10000	175935-29032	08-04-11J	08/22/11	100
J&T Brand		Purge & Trap MeOH		K07E34-00543	08/12/12	10/14/11	1400

CHICO							
08-17-11AB							
250ug/ml 8260 Internal Standard - Chico			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
O2SI	120302-03	Internal Standard Mix	2000	166255-27947	08-09-11A	10/23/11	500
O2SI	020132-02	Fluorobenzene Standard	2000	169170-28263	08-09-11B	10/23/11	500
J&T Baker		Purge & Trap MeOH		K07E34-00543	08/12/11	11/14/12	5000
08-17-11AC							
250ug/ml 8260 Surrogate - Chico			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
O2SI	120002-01	Surrogate Standard	2000	164585-28727	08-09-11C	10/23/11	500
J&T Baker		Purge & Trap MeOH		K07E34-00543	08/12/11	11/14/12	5000

08-17-11AD							
50ug/ml 8260B Surrogate- Neo			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
O2SI	8260B Surr	Surrogate Standards	2000	164585-28720	08-17-11B	12/13/11	500
J.T Baker		Purge & Trap MeOH		K07E34-00543	08/12/11	10/10/12	19500

8-17-11 RS

8-17-11 RS

8-17-11 RS

8-17-11 RS

8-17-11 RS

8-18-11 RS

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-THOR

	Expiration Date:		09/22/11								
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	09-19-11I	09-19-11M	09-19-11O	09-19-11F	09-19-11L	09-19-11J	09-19-11E	09-19-11Q	09-19-11K
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
09-21-11B	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
09-21-11C	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
09-21-11D	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
09-21-11E	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
09-21-11F	5	n/a	n/a	5	5	10	n/a	5	5	n/a
09-21-11G	10	n/a	n/a	10	10	25	n/a	10	10	n/a
09-21-11H	20	n/a	n/a	20	20	40	n/a	20	20	n/a
09-21-11I	40	n/a	n/a	40	40	60	n/a	40	40	n/a
09-21-11J	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250µg/mL TAPD 09-19-11N Exp:09-26-11	Final Vol w/P&T H2O 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 (524 water)-NEO

	Expiration Date:		09/22/11				
		5µg/mL Vol Std #9	50µg/mL Vol Std #7	50µg/mL Vol Std #8	250µg/mL TAPD	Final Vol
Date	Conc.	09-19-11I	09-19-11O	09-19-11F	09-19-11N	w/P&T H2O
Code	µg/L	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	50
09-21-11L	0.5	5	n/a	n/a	5	50
09-21-11M	1	10	n/a	n/a	10	50
09-21-11N	2	20	n/a	n/a	15	50
09-21-11O	5	n/a	5	5	20	50
09-21-11P	10	n/a	10	10	25	50
09-21-11Q	40	n/a	40	40	35	50
09-21-11R	100	n/a	100	100	40	50

AY44799W01 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							
09-23-11A							
250ug/ml 8260 Internal Standard - Sweetpea			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
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, 2,000 mg/L, 1 ml
120302-03
Lot# 166255 Storage ≤-10 Degrees C Expiry 11/18/12
Solv: P/T Methanol
Made in the USA. RAID only, not human consumption.

Method 8260 Internal Standard
Lot #: 166255 - 28350
Rec: 2/17/11 MFR exp. 11/18/12

Fluorobenzene Solution, 2,000 mg/L, 1 ml
020132-02
Lot# 169170 Storage ≤6 Degrees C Expiry 2/13/14
Solv: P/T Methanol
Made in the USA. RAID only, not human consumption.

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	Date
9-23-11 RS. 02SI	120302-03	Internal Standard Mix	2000	166255-28350	09-23-11B	12/3/11
02SI	020132-02	Fluorobenzene Standard	2000	169170-28738	09-23-11C	12/23/11
J&T Baker		Purge & Trap MeOH		K07B34-00547	09/12/11	11/10/12

9-24-11 RS.

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-SWEETPEA

	Expiration Date:		09/24/11							
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #6	50µg/mL Vol Std #5	50µg/mL Vol Std #4
Date	Conc.	09-19-11I	09-19-11M	09-19-11D	09-19-11F	09-19-11L	09-19-11J	09-19-11E	09-19-11S	09-19-11R
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
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	5	10	n/a	5	5	5
09-23-11J	10	n/a	n/a	10	10	25	n/a	10	10	10
09-23-11K	20	n/a	n/a	20	20	40	n/a	20	20	20
09-23-11L	40	n/a	n/a	40	40	80	n/a	40	40	40
09-23-11M	100	n/a	n/a	100	100	n/a	n/a	100	100	100

9-23-11 RS.

9-24-11 RS.

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-CHICO

	Expiration Date:		09/24/11							
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #6	50µg/mL Vol Std #5	50µg/mL Vol Std #4
Date	Conc.	09-19-11I	09-19-11M	09-19-11D	09-19-11F	09-19-11L	09-19-11J	09-19-11E	09-19-11S	09-19-11R
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
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	5	5
09-23-11S	10	n/a	n/a	10	10	25	n/a	10	10	10
09-23-11T	20	n/a	n/a	20	20	40	n/a	20	20	20
09-23-11U	40	n/a	n/a	40	40	80	n/a	40	40	40
09-23-11V	100	n/a	n/a	100	100	n/a	n/a	100	100	100

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

120716-03

Lot #	Storage	Expiry
170302	≤-10 Degrees C	3/11/14

Solvt: P/T Methanol

Made in the USA

Method 8260 Gases

Lot #: 170302 - 28877

Rec: 4/20/11 MFR exp. 03/11/14

9-24-11 RS.

B -

n-Hexane Solution, 1,000 mg/L, 1 ml

020628-02

Lot #	Storage	Expiry
163378	≤-10 Degrees	8/29/15

Solvt: P/T Methanol

Made in the USA

n-Hexane Solution

Lot #: 163376 - 29230

Rec: 8/5/11 MFR exp. 08/29/15

068

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

Volatile Standard Curve Preparation for 10mL Purge (5260 water)-CHICO

	Expiration Date:		09/30/11							
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	50ug/mL Vol Std #2	50ug/mL Vol Std #3
Date	Conc.	09-29-11D	09-28-11N	09-28-11F	09-29-11C	09-28-11M	09-28-11K	09-28-11B	09-29-11I	09-29-11J
Code	µg/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
09-29-11M	0.3	3	5	n/a	n/a	n/a	3	n/a	n/a	n/a
09-29-11O	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a
09-29-11P	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a
09-29-11Q	2	20	40	n/a	n/a	n/a	20	n/a	n/a	n/a
09-29-11R	5	n/a	n/a	5	5	n/a	5	n/a	n/a	n/a
09-29-11S	10	n/a	n/a	10	10	25	n/a	5	5	5
09-29-11T	20	n/a	n/a	20	20	40	n/a	10	10	10
09-29-11U	40	n/a	n/a	40	40	80	n/a	20	20	20
09-29-11V	100	n/a	n/a	100	100	n/a	n/a	40	40	40
								100	100	100

9-29-11
RS.

10-02-11
RS

250ug/mL TAPD	Final Vol
09-29-11D	wf P&T H2O
Exp:10-05-11	mL
2	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

10-02-11
RS

9-30-11
RS.

A -

4-Bromofluorobenzene
Solution, 2,500 mg/L, 1 ml
Lot # 020135-03
Storage
Expiry
4-bromofluorobenzene
Lot #: 176675 - 29375
Rec: 8/9/11 MFR exp. 08/02/14

RS.

10-02-11
RS

09-30-11A						
20ug/ml BFB STD			Conc.		Date	EXP:
EXP: 10-30-11			ug/ml	Lot#	CODE	Date
02SI	020135-03	4-Bromofluorobenzene	2500	176675-29375	10-01-11A	12/11/11
J&T Baker		Purge & Trap MeOH		K14E05-00551	10/01/11	09/29/11

9-30-11
RS.

Volatile Standard Curve Preparation for 10mL Purge (524 water)-NEO

	Expiration Date:		10/02/11			
		5ug/mL Vol Std #9	50ug/mL Vol Std #7	50ug/mL Vol Std #8	250ug/mL TAPD	Final Vol
Date	Conc.	09-29-11D	09-29-11F	09-29-11C	09-29-11O	wf P&T H2O
Code	µg/L	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	2	50
10-01-11B	0.5	5	n/a	n/a	5	50
10-01-11C	1	10	n/a	n/a	10	50
10-01-11D	2	20	n/a	n/a	15	50
10-01-11E	5	n/a	5	5	20	50
10-01-11F	10	n/a	10	10	25	50
10-01-11G	40	n/a	40	40	35	50
10-01-11H	100	n/a	100	100	40	50

10-01-11
RS.

RS

10-02-11
RS

10-02-11
RS

CMS STANDARD PREPARATION BOOK # _____ PAGE # _____

10-27-11
RS

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-MAX

	Expiration Date:		10/28/2011								
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	50ug/mL Vol Std #2	5ug/mL Vol Std #12
Date	Conc.	10-26-11J	10-26-11N	10-26-11F	10-26-11H	10-26-11M	10-26-11K	10-26-11G	10-26-11I	10-26-11L
Code	ug/L	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11
10-27-11J	0.5	3	6	n/a	n/a	n/a	3	n/a	n/a	3
10-27-11K	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
10-27-11L	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
10-27-11M	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
10-27-11N	5	n/a	n/a	5	5	10	n/a	5	5	n/a
10-27-11O	10	n/a	n/a	10	10	25	n/a	10	20	n/a
10-27-11P	20	n/a	n/a	20	20	40	n/a	20	20	n/a
10-27-11Q	40	n/a	n/a	40	40	80	n/a	40	40	n/a
10-27-11R	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250ug/mL TAPD 10-26-11O Exp:11-01-11	Final Vol wP&T H2O mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

10-27-11
RS

Volatile Standard Curve Preparation for 5mL Purge (8260 soil)-NEO

	Expiration Date:		10/28/2011								
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	5ug/mL Vol Std #2	50ug/mL Vol Std #12
Date	Conc.	10-26-11J	10-26-11N	10-26-11F	10-26-11H	10-26-11M	10-26-11K	10-26-11G	10-26-11I	10-26-11L
Code	ug/L	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11
10-27-11S	2	2	4	n/a	n/a	n/a	2	n/a	2	n/a
10-27-11T	5	5	10	n/a	n/a	n/a	5	n/a	5	n/a
10-27-11U	10	10	20	n/a	n/a	n/a	10	n/a	10	n/a
10-27-11V	20	20	40	n/a	n/a	n/a	20	n/a	20	n/a
10-27-11W	50	n/a	n/a	5	5	10	n/a	5	n/a	5
10-27-11X	100	n/a	n/a	10	10	20	n/a	10	n/a	10
10-27-11Y	200	n/a	n/a	20	20	40	n/a	20	n/a	20

250ug/mL TBA 10-26-11O Exp:11-01-11	Final Vol wP&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

10-27-11
RS.

Volatile Standard Curve Preparation for 5mL Purge (8260 soil)-THOR

	Expiration Date:		10/28/2011								
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	5ug/mL Vol Std #2	50ug/mL Vol Std #12
Date	Conc.	10-26-11J	10-26-11N	10-26-11F	10-26-11H	10-26-11M	10-26-11K	10-26-11G	10-26-11I	10-26-11L
Code	ug/L	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11	Exp:11-01-11
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

250ug/mL TBA 10-26-11O Exp:11-01-11	Final Vol wP&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

10-28-11
RS.

A-

Method 8260 Gases, 2,000 mg/L; 2 X 0.6 ml

120016-03

Lot#	Storage	Expiry
169238	≤ -10 Degrees C	2/19/14

Solv: P/T Methanol

Method 8260 Gases

Lot #: 169238 - 28662

Rec: 4/20/11 MFR exp. 02/19/14

RS

10-28-11 RS B-

Hexachloroethane Solution, 1000 mg/L, 1 ml

020049-02

Lot #	Storage	Expiry
164816	-10 Degrees C	10/14/12

Solv: P/T Methanol

Hexachloroethane

Lot #: 164816 - 28667

Rec: 4/20/11 MFR exp. 10/14/12

RS

10-28-11 RS B

10-28-11 RS C-

Benzyl Chloride Solution, 1000 mg/L, 1 ml

020228-02

Lot #	Storage	Expiry
163373	≤-10 Degrees	8/29/12

Solv: P/T Methanol

Benzyl Chloride

Lot #: 163373 - 29166

Rec: 8/5/11 MFR exp. 08/29/12

RS

10-28-11 RS C

10-28-11 RS D-

Volatile Mix, 20-29, 2,000 mg/L, 1 ml

121035-02

Lot #	Storage	Expiry
163374	≤-10 Degrees	8/29/12

Solv: P/T Methanol

Volatile Mix, 20-29

Lot #: 163374 - 28300

Rec: 2/17/11 MFR exp. 08/29/12

RS

10-28-11 RS D

10-28-11 RS E-

Method 8260 VOC Liquids, 54 Compounds, 2,000 mg/L, 1 ml

120023-03

Lot #	Storage	Expiry
164454	≤-10 Degrees C	10/4/12

Solv: P/T Methanol

8260 VOC Liquids, 54 Comp.

Lot #: 164454 - 27872

Rec: 12/15/10 MFR exp. 10/04/12

RS

10-28-11 RS E

10-28-11 RS F-

Vinyl Acetate Solution, 2,000 mg/L, 1ml

#124312-02

Lot #	Storage	Expiry
178902	≤-10 Degrees C	12/15/11

Solv: P/T Methanol

Vinyl Acetate

Lot #: 178902 - 29552

Rec: 9/22/11 MFR exp. 12/15/11

RS

10-28-11 RS F

10-28-11 G -
RS.

Heptane Solution, 1000 mg/L, 1 ml
821546-02
Lot # 169174 Storage ≤-10 Degrees C Expiry 2/18/14
Solv: P/T Methanol
RS.

Heptane Solution
Lot #: 169174 - 29248
Rec: 8/5/11 MFR exp. 02/18/14

10-28-11 H -
RS.

8260B Surrogate Solution, 2,000 mg/L, 5 x 1 ml
110002-01-5PAK
Lot # 173249 Storage ≤-10 Degrees C Expiry 5/17/13
Solv: P/T Methanol
RS.

8260B Surrogate Solution
Lot #: 173249 - 26847
Rec: 5/25/11 MFR exp. 05/17/13

10-28-11 I -
RS.

VOC Mix 4-3, 2,000 mg/L, 1 ml
120166-01
Lot # 178651 Storage ≤5 Degrees C Expiry 9/11/13
Solv: P/T Methanol
RS.

VOC Mix 4-3, 2000mg/L
Lot #: 178651 - 29510
Rec: 9/20/11 MFR exp. 09/11/13

10-28-11 J -
RS.

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml
120016-03-SS
Lot # 168038 Storage ≤-10 Degrees C Expiry 1/21/14
Solv: P/T Methanol
RS.

8260 Gases (SS)
Lot #: 168038 - 28743
Rec: 4/20/11 MFR exp. 01/21/14

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

10-28-11K							
80ug/ml Vol Work Std #7							
Exp:11/04/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	169238-28682	10-28-11A	11/30/2011	100
02SI	020049-02	HEXACHLOROETHANE	1000	164816-28687	10-28-11G	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		K14E06-00556	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
02SI	020145-02-02	2-CEVE	2000	160092-26637	10-06-11B	12/7/2011	50
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	1950
10-28-11M							
50ug/ml Vol Work Std #8							
Exp:11/04/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120039-02	Volatile Mix, 20-29	2000	163174-28100	10-28-11D	3/14/2012	100
02SI	120023-03	VOC'S-54 COMP	2000	164454-27872	10-28-11E	3/14/2012	100
02SI	020212-02	Vinyl Acetate	2000	176902-29552	10-28-11F	11/15/2011	100
02SI	020620-02	n-Hexane	1000	163378-27889	10-26-11B	11/14/2011	200
02SI	020546-02	Heptane	1000	169174-29248	10-28-11G	11/14/2011	200
J&T Brand		Purge & Trap MeOH		K14E06-00556	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				
02SI	121020-05	MSB'S-Ketone Solution	2000	169173-28307	10-12-11B	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	10/14/2012	3900
		10-28-11O	Exp:	11/4/2011			
		5ug/ml Vol Work Std #9					
		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	Exp:	11/4/2011			
		5ug/ml Vol Work Std #10					
		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	Exp:	11/4/2011			
		5ug/ml Vol Work Std #12					
		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	1600	
10-28-11R							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:11/04/11			ug/ml	Lot #	Code	Date	ul
02SI	120002-01	8260B Surr Solution	2000	173249-28843	10-28-11H	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	3900
10-28-11S			Exp:	11/4/2011			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		10-28-11R	10/31/2011	200	
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	1800	
10-28-11T							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:11/04/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	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		K14E06-00556	10/27/2011	6/8/2012	3400

10/28/11 RS.

10/28/11 RS.

10/28/11 RS.

10-28-11U							
50ug/ml VOC Std#5							
Exp:11/04/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03-SS	8260 Gases(SS)	2000	168038-28743	10-28-11J	11/30/2011	50
02SI	020145-02-02-5	2-CEVE	2000	152530-27273	10-19-11J	11/3/2011	50
J&T Brand		Purge & Trap MeOH		K14E05-00556	10/27/2011	6/8/2012	1900
10-28-11V							
50ug/ml VOC Std#6							
Exp:11/04/11							
	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120023-02-SS	VOC'S 54 COMP.	2000	161271-27773	09-12-11P	11/14/2011	50
02SI	120295-01	Custom 8260 Solution	2000	166038-27763	09-12-11Q	11/14/2011	50
02SI	020232-02-SS	Vinyl Acetate(SS)	2000	176774-29257	09-12-11R	11/30/2011	50
02SI	020620-02-SS	n-HEXANE	1000	179199-29615	10-12-11F	12/14/2011	100
02SI	020049-02-SS	HEXACHLOROETHANE	1000	164535-25913	09-13-11B	12/29/2011	100
02SI	020546-02-SS	Heptane(SS)	1000	142276-23593	09-13-11C	12/19/2011	100
J&T Brand		Purge & Trap MeOH		K14E05-00556	10/27/2011	6/8/2012	1550
10-28-11W							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:11/04/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	152531-25468	10-02-11G	11/3/2011	250
02SI	020229-05-SS	Acrolein SOLUTION (SS)	10000	178607-29549	10-02-11H	11/21/2011	50
J&T Brand		Purge & Trap MeOH		K14E05-00556	10/27/2011	6/8/2012	1700

10-28-11X							
50ug/ml Vol Work Std #7							
Exp:11/04/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-01	Gas Mix	2000	169238-28682	10-28-11A	11/30/2011	100
02SI	020049-02	HEXACHLOROETHANE	1000	164816-28687	10-28-11B	12/14/2011	200
02SI	020228-02	Benzyl Chloride	1000	161371-29166	10-28-11C	12/14/2011	200
J&T Brand		Purge & Trap MeOH		K14E06-00556	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 #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	160092-26617	10-05-11E	12/7/2011	50
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	1950
10-28-11Z							
50ug/ml Vol Work Std #8							
Exp:11/04/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	161374-28300	10-28-11D	2/14/2012	100
02SI	120023-01	VOC'S-54 COMP	2000	164454-27872	10-28-11E	2/14/2012	100
02SI	020232-02	Vinyl Acetate	2000	178902-29552	10-28-11F	11/15/2011	100
02SI	020620-02	n-Hexane	1000	161378-27889	10-26-11B	11/14/2011	200
02SI	020546-02	Heptane	1000	169174-29248	10-28-11G	11/14/2011	200
J&T Brand		Purge & Trap MeOH		K14E06-00556	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				
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-28107	10-12-11B	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	10/14/2012	1900
		10-28-11AB	Exp:	11/4/2011			
		5ug/ml Vol Work Std #9					
		SOURCES	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			
		5ug/ml Vol Work Std #10					
		SOURCES	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	

GCMS STANDARD PREPARATION BOOK # _____ PAGE # 5

		10-28-11AD	Exp:	11/4/2011			
		5ug/ml Vol Work Std #12					
		SOURCE8	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 8260 Surrogate			Conc.		Date	Exp.	
Exp:11/04/11			ug/ml	Lot #	Code	Date	ul
O2SI	120002-01	8260B Surr Solution	2000	173249-28847	10-28-11H	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	1900
10-28-11AF			Exp:	11/4/2011			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		10-28-11AB	10/31/2011	200	
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	1800	
10-28-11AG							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:11/04/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
O2SI	120166-01	Volatile Mix 4-3	2000	178651-29510	10-28-11I	12/17/2011	500
O2SI	020229-09	Acrolein	10000	175941-29661	10-19-11H	11/21/2011	100
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	6/8/2012	1400

10/28/11 RS.

NOTEBOOK INSERT LABEL

Gasoline 47618-U
Lot: LB82077 EXP: FEB/2014 STORAGE: ROOM TEMP. 1 x 1ml

DATE RECEIVED: _____

SUPELCO
595 North Harrison Road • Bellefonte, PA 16823-0048 USA • Phone 814-359-3441

10/30/11 RS.

A -

STANDARD TRANSFER LABEL

Date of Preparation:
Reference Number:
Description: Gasoline
Lot #: LB82077 - 29133
Rec: 8/4/11 MFR exp. 02/28/14
Exp. Date:
Storage: EXP: FEB/2014 ROOM TEMP.

10/30/11 RS.

B -

REST Calif 30205
Unleaded Gasoline Composite Standard
50000 ug/mL each in P&T Methanol
Lot# A076842 Exp.Date: 10/2017 Store: Freezer
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

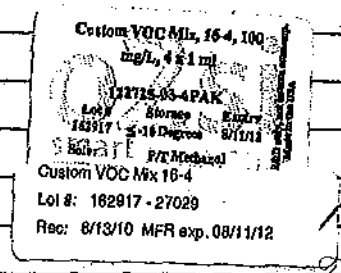
Unleaded gasoline composite
Lot #: A076842 - 29141
Rec: 8/4/11 MFR exp. 10/31/17

RS.

10/30/11 RS.

10/30/11C						APPL	
2000ug/ml Gasoline			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
Supelco	LB82077	Gasoline	20,000	LB82077-29133	10-30-11A	11/2/2012	200
J&T Brand		Purge & Trap MeOH		K14E06-00556	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	ul
Supelco	30205	Unleaded Gasoline	50,000	A076842-29141	10-30-11B	11/30/2012	200
J&T Brand		Purge & Trap MeOH		K14E06-00556	10/27/2011	3/2/2012	1800

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____



10/28/11 E RS

CHICO RS 12/07/11.

10/28/11 RS

RS.

Gasoline Curve Preparation for 100mL Purge (water)-CHICO			
	Expiration Date:		10/31/2011
		1µg/mL Gasoline	Final Vol
Data	Conc.	10-30-11C	wP&T H2O
Code	µg/L	Exp:12-27-12	mL
10-30-11F	20	1	100
10-30-11G	50	2.5	100
10-30-11H	100	5	100
10-30-11I	300	15	100
10-30-11J	600	30	100
10-30-11K	800	40	100
10-30-11L	1000	50	100

10/28/11 RS

Volatile Standard Curve Preparation for 10mL Purge (@250 water)-CHICO											
	Expiration Date:		10/31/2011								
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #3	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Data	Conc.	10-28-11O	10-28-11S	10-28-11K	10-28-11M	10-28-11R	10-28-11P	10-28-11L	10-28-11N	10-28-11Q
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
10-30-11I	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
10-30-11J	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
10-30-11K	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
10-30-11L	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
10-30-11M	5	n/a	n/a	5	5	10	n/a	5	5	n/a
10-30-11N	10	n/a	n/a	10	10	25	n/a	10	20	n/a
10-30-11O	20	n/a	n/a	20	20	40	n/a	20	20	n/a
10-30-11P	40	n/a	n/a	40	40	80	n/a	40	40	n/a
10-30-11Q	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

10/28/11 RS

250µg/mL TAPD 10-28-11T Exp:11-04-11	Final Vol wP&T H2O 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 (@250 water)-MAX											
	Expiration Date:		11/1/2011								
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #3	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Data	Conc.	10-28-11O	10-28-11S	10-28-11K	10-28-11M	10-28-11R	10-28-11P	10-28-11L	10-28-11N	10-28-11Q
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
10-31-11A	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
10-31-11B	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
10-31-11C	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
10-31-11D	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
10-31-11E	5	n/a	n/a	5	5	10	n/a	5	5	n/a
10-31-11F	10	n/a	n/a	10	10	25	n/a	10	20	n/a
10-31-11G	20	n/a	n/a	20	20	40	n/a	20	20	n/a
10-31-11H	40	n/a	n/a	40	40	80	n/a	40	40	n/a
10-31-11I	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

10/31/11 RS

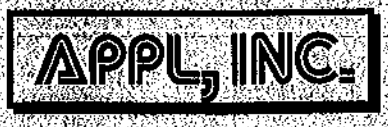
250µg/mL TAPD 10-28-11T Exp:11-04-11	Final Vol wP&T H2O mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

Injection Log

Directory: M:\CHICO\DATA\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



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.

Metals SC-Blank-REG MDLs
Printed: 11/15/2011 12:57:25 PM

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

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

Printed: 11/15/2011 12:58:25 PM

APPL-F1-SC-NoMC-REG MDLs

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: 111110A-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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran
Project: RED HILL/1022-024
Sample ID: ES051
Sample Collection Date: 10/25/2011

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

Printed: 11/15/2011 12:58:25 PM

APPL-F1-SC-NoMC-REG MDLs

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 Sr	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

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: 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 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

(1) Control Limits: Metals 90-110

ILM02.0

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

(1) Control Limits: Metals 90-110

ILM02.0

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 18:04	%R(1)	True	Found	%R(1)	
Lead (Pb)	100	106.3	106	50	48.04	96.1				P

(1) Control Limits: Metals 90-110

ILM02.0

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		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.: 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\005CALS.D\005CALS.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	2436.84	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	365.58	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\006CALS.D\006CALS.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	82436.36	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	61.11	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	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\004CALS.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\007CALS.D\007CALS.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	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	254063.59	P	2599.00	1.02	0.9995
60 Ni	64869.86	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	1852128.00	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\004CALS.D\004CALS.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\008CALS.D\008CALS.D#
Date Acquired: Nov 11 2011 12:33 pm
Operator: NBS
Sample Name: 111111 Standard 4
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 12:30 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	0.65	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

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\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	8.18	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		
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\nogae.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. Nnumber 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	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\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	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.

Metals SC-Blank-REG MDLs
Printed: 11/15/2011 12:57:23 PM

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

411

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	

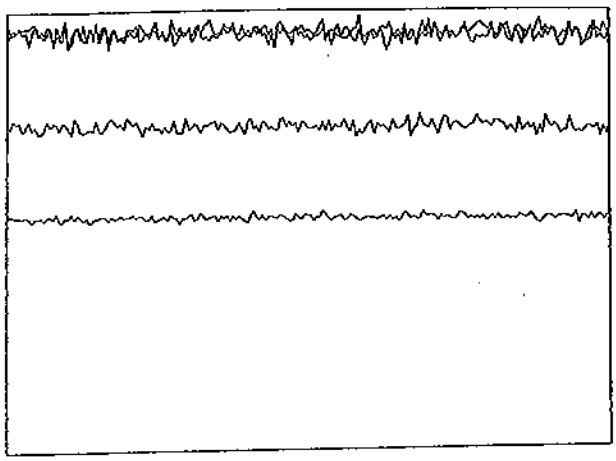
ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

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

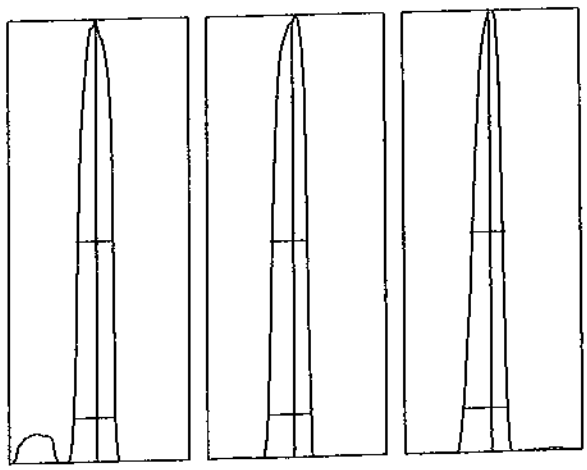
Tune Report

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

Generated : Nov 11, 2011 10:05:38
Printed : Nov 11, 2011 10:05:40

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	:	--- %

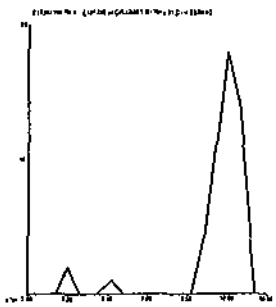
Generated : Nov 11, 2011 10:05:38
Printed : Nov 11, 2011 10:05:42

200.8 QC Tune Report

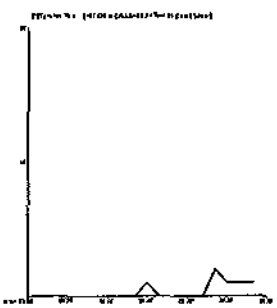
Data File: C:\ICPCHEM\1\DATA\11K11100.B\001TUNE.D
Date Acquired: Nov 11 2011 11:48 am
Acq. Method: TN200_8.M
Operator: NBS
Sample Name: 100ppb Tune sol
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

RSD (%)

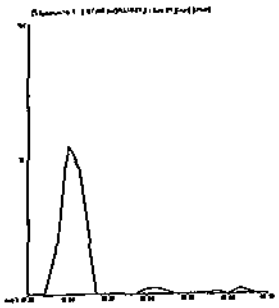
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	65891175	64840372	65630536	65890148	66486284	66608536	**1.01**	5.00	
24 Mg	120432836	########	########	########	########	########	**1.16**	5.00	
59 Co	111175066	########	########	########	########	########	**0.73**	5.00	
115 In	122240964	########	########	########	########	########	**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:



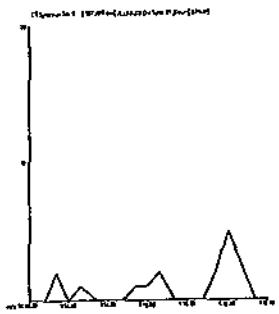
59 Co

Mass Calib.

Actual:	59.00		
Required:	58.90	-	59.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.90		
Flag:			



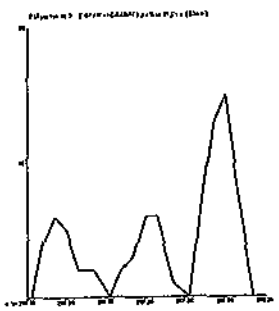
115 In

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

6020/6020A

(A)

NBS 11/11/11

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
20mL HCL / 2000mL DI Water
Lot #4110110
Expires: 11/18/2011

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

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	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

NBS 11/11/11

Standard 2 11/18/2011
Amount STD
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
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

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	11C066-28529

Prepared in 6 mL of 1% HNO3/1.0% HCL 11/11/2011

ICSAB Prep: 11/18/2011

1mL	ICSA	CPI	11C066-28529
0.025mL	INT	O2SI	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

SDM 11/11/11

200.7

Exp (A)

2%HNO3 / 2%HCl BLK

AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
40 mL	HCL	BDH	4110110	10/14/2011
40 mL	HNO3	JT BAKER	K19023	10/14/2011
Prepared in 2000 ml DI Water				

STD 1 / LDL 200.7

AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.250 mL	200.7 LDL	O2SI	1028657-28667	11/1/2012
Prepared in 50 ml 2%HNO3/2%HCl				

STD 3 / HDL 200.7

0.5 mL	CCV-A	ABSOLUTE	091409-25206	9/14/2012
0.5 mL	CCV-B	ABSOLUTE	091109-25208	9/14/2012
0.5 mL	CCV-C	ABSOLUTE	091009-25207	9/10/2012

STD 2 / CCV1 200.7

AMOUNT	STD	PREP DATE	EXP DATE
25mL	STD 3	11/4/2011	11/11/2011
25mL	2%HNO3/2%HCl	11/4/2011	11/11/2011

CCV2 200.7

15mL	STD 3	11/4/2011	11/11/2011
25mL	2%HNO3/2%HCl	11/4/2011	11/11/2011

200.7 ICV

AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5ML	QCS ICV A	CPI	11C174-28548	9/17/2012
0.5ML	QCS ICV B	CPI	11C174-28549	9/17/2012
Prepared in 50ml 2%HNO3/2%HCl				

200.7 ICSA

0.5mL	Al	CPI	10E012-27685	4/20/2012
0.5mL	Ca	CPI	11A008-28528	9/15/2012
0.5mL	Mg	CPI	10H213-2766	4/20/2012
0.5mL	Fe	O2SI	1022245-27699	4/22/2012
Prepared in 50 ml 2%HNO3/2%HCl				

200.7 ICSAB

0.5mL	Al	CPI	10E012-27685	4/20/2012
0.5mL	Ca	CPI	11A008-28528	9/15/2012
0.5mL	Mg	CPI	10H213-2766	4/20/2012
0.5mL	Fe	O2SI	1022245-27699	4/22/2012
0.25mL	INT SPECIAL MIX	O2SI	160495-01-01	3/1/2012
Prepared in 50 ml 2%HNO3/2%HCl				

SDM 11/11/11

6010B/6010C

(A)

1%HNO3 / 5%HCl BLK

AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	BDH	4110110	10/14/2011
20 mL	HNO3	JT BAKER	K19023	10/14/2011
Prepared in 2000 ml DI Water				

STD 1 / LDL 6010B/6010C

AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	091409-25205	9/14/2012
Prepared in 50 ml 1%HNO3/5%HCl				

STD 3 / HDL 6010B/6010C

1ML	CCV-A	ABSOLUTE	091409-25206	9/14/2012
1ML	CCV-B	ABSOLUTE	091109-25208	9/14/2012
1ML	CCV-C	ABSOLUTE	091009-25207	9/10/2012
Prepared in 100 ml 1%HNO3 / 5%HCl				

STD 2 / CCV1 6010B/6010C/6010C

AMOUNT	STD	PREP DATE	EXP DATE
25mL	STD 3	11/11/2011	11/18/2011
25mL	1%HNO3/5%HCl	11/11/2011	11/18/2011

CCV2 6010B/6010C

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

6010B/6010C ICSA

AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	10E012-27685	4/20/2012
1mL	Ca	CPI	11A008-28528	9/15/2012
1mL	Mg	CPI	10H213-2766	4/20/2012
1mL	Fe	O2SI	1022245-27699	4/22/2012
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICSAB

1mL	Al	CPI	10E012-27685	4/20/2012
1mL	Ca	CPI	11A008-28528	9/15/2012
1mL	Mg	CPI	10H213-2766	4/20/2012
1mL	Fe	O2SI	1022245-27699	4/22/2012
0.5mL	INT SPECIAL M	O2SI	160495-01-01	3/1/2012
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICV

0.5ML	QCS ICV A	CPI	11C174-28548	9/17/2012
0.5ML	QCS ICV B	CPI	11C174-28549	9/17/2012
Prepared in 50ml 1%HNO3/5%HCl				

SDM 11/11/11

_M3015

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	MSATLS

Technicians Initials	
Scanned By	nm
Sample Preparation	lo
Digestion	lo
Bring up to volume	nm
Modified	11/10/11 10:19:53 AM

Reviewed By: [signature] **Date:** 11-10-11

M3015

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	MBS
Date	11-10-11
Time	13:00
Moved to	MSTACS

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 **Date:** 11-10-11

6020/200.8 Injection Log

Directory: K:\ICP-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.