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

February 20, 2012

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

Attn: Max Solmssen

Title: Report of Data: Case 66795

Project: Red Hill/1022-015

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

Dear Mr. Solmssen:

Samples were received January 25, 2012, in good condition. Written results for the requested analyses are provided on this February 20, 2012.

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.

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/sdm
Enclosure
cc: File

Number of pages in this report: 461

Data Validation Package
for
Red Hill/1022-015
SDG 66795

TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

SAMPLE RECEIPT INFORMATION

Sample receipt information

ARF: 66795

Project: Red Hill/1022-015

Sample Receipt Information:

The samples were received on January 25, 2012, at 2.5°C and 2.5°C. The samples were assigned Analytical Request Form (ARF) number 66795. The sample numbers and requested analysis were compared to the chains of custody and email communications. No other exception was encountered.

Sample Tablel

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
ES057	AY53666	WATER	01/24/12	01/25/12
ES058	AY53667	WATER	01/24/12	01/25/12
ES059	AY53668	WATER	01/24/12	01/25/12
TRIP BLANK	AY53669	WATER	01/24/12	01/25/12

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

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

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

Measurement uncertainty can be reported upon request.

CASE NARRATIVE

EPA Method 8015B

Total Petroleum Hydrocarbons – Diesel

Sample Preparation:

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

Sample Analysis Information:

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

Quality Control/Assurance

Calibrations:

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

Blanks:

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

Spikes:

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

No sample was designated for MS/MSD analysis.

Surrogates:

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

Summary:

No 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. The samples were not-preserved when received. The samples were injected within a seven day holding time. All holding times were met.

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector. All holding times were met. Manual integrations were performed in accordance to APPL's SOP. Chromatograms of prior to and after manual integrations are enclosed. All points of the gasoline curve and the gasoline second-source(file ID 0125C38W.D) required manual integrations because the integration did not follow the baseline.

Quality Control/Assurance:

Calibrations:

Initial and continuing calibrations were performed according to the method. All system performance check compounds and calibration check compounds met DoD acceptance criteria. All calibration criteria were met.

Blanks:

No target analyte was detected above one-half the limit of quantitation (LOQ) 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 and second-source 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 method 3015. Samples ES057, ES058, and ES059 were filtered and preserved in the laboratory. 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 ES059 was designated by the laboratory for MS/MSD analysis. The MS/MSD, PDS, and DT met all acceptance criteria.

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 66795

Client: **Environet, Inc.**
Address: **650 Iwilei Rd, #204**
Honolulu, HI 96817
Attn: **Max Solmssen**
Phone: **808-833-2225** Fax: **808-833-2231**
Job: **RED HILL/1022-015**
PO #: **1022-015**
Chain of Custody (Y/N): **Y** # **33005**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **2 WEEKS**

Received by: **TBV**
Date Received: **01/25/12** Time: **10:55**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **N** Time Zone:
Chest Temp(s): **2.5,2.5°C**
Color: **VOA,M-PURPINK,R-OYEL**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Cynthia Clark**
QC Report Type: **DVP4/ADRDOD/HI**
Due Date: **02/08/12**

Comments:
14 day TAT for Form 1s & 30 day TAT for full package.
OSDas@, MSolmssen@ & 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 Osdas@ VDupra@ & MSolmssen@environetinc.com
metals 6020: report Lead with 0.5ug/L RL
TPH-Diesel only; VOCs: include gasoline by 8260B
Metals lab filter & preserve

Sample Distribution: 2.17
GC: 3-$SIMHC12W, 3-$TPETD2
Extractions: 3-_SEP004S, 3-_SEP011
VOA: 4-$86RHBF 2.12
Metals: 3-$602D(Pb) 2-2
Other: 3-_M3015

Charges:

Invoice To:
same

	Client ID	APPL ID	Sampled	Analyses Requested
1.	ES057	AY53666W	01/24/12 11:07	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- un-preserved VOA vials
2.	ES058	AY53667W	01/24/12 13:00	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- un-preserved VOA vials
3.	ES059	AY53668W	01/24/12 08:30	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- un-preserved VOA vials
4.	TRIP BLANK	AY53669W	01/24/12 00:01	$86RHBF -- un-preserved VOA vials

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in:

APPL Sample Receipt Form

ARF# **66795**

Sample	Container Type	Count	pH
AY53666	[2] PL 500mL	1	NA
	[15] VOAs - NP	3	NA
	[17] Amber Liter	4	NA
AY53667	[2] PL 500mL	1	NA
	[15] VOAs - NP	3	NA
	[17] Amber Liter	4	NA
AY53668	[2] PL 500mL	1	NA
	[15] VOAs - NP	3	NA
	[17] Amber Liter	4	NA
AY53669	[15] VOAs - NP	3	NA

Sample	Container Type	Count	pH

66795
2.5
2.5
2.5

CHAIN OF CUSTODY RECORD

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

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

C.O.C. 33005

Report to: Max Solmssen PLEASE PRINT
Company Name: Environet, Inc Phone: 808-833-2225
Address: 650 Iwilei RD, suite 204 Fax: 808-833-2231
Honolulu, HI 96817
Attn: Max Solmssen

Invoice to: PLEASE PRINT
Company Name: Environet, Inc. Phone: 808-833-2225
Address: 650 Iwilei RD, Suite 204 Fax: 808-833-2231
Honolulu, HI 96817
Attn: Accounts Payable

Project Name/Number: RedHill/1022-015
Purchase Order Number:
Sampler (Print): Max Solmssen
Sampler (Signature): James Terry

Date Shipped: 1/24/12
Carrier: FEDEX
Waybill No.: 8993 7509 1476
Comments: * Lead samples are unfiltered. Please filter at lab upon arrival.

Sample Identification	Location	Date Collected	Time Collected	No. of Containers	Matrix: Aq	Sed.	Soil	VOCs (8260B)	TPH-G (8260B)	TPH-D (8015B)	PAHs (8270C SIM)	Dissolved *Lead (6020)	Analysis Requested/Method Number
ES057	RHSF	1/24/12	1107	8	X			X	X	X	X	X	
ES058	↓	↓	1300	8	X			↓	↓	↓	↓	↓	
ES059	↓	↓	830	8	X			↓	↓	↓	↓	↓	
trip blank				3	X			X	X				

Bottle 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:
	1/24/12	1410					
Relinquished by: MS	Date 1/24/12	Time 1410	Received by:	Relinquished by:	Date 1/25/12	Time 1055	Received at lab by:

Note: Return to client with report Yellow: Laboratory Copy Pink: Sampler

See reverse side for Container Preservative and Sampling Information

COOLER RECEIPT FORM

1) Project: LTM Red Hill Bulk Fuel Storage Facility Date Received: 1/25/12

2) Coolers: Number of Coolers: 2

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

4) YES (NO) Were custody seals on outside of cooler? How many?_____Date on seal? _____

5) Name on seal?_____

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) MASTER 2) 899397509 1476 3)_____

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

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

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

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

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

14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0

15) Cooler temp(s): 1) 2.5°C 2) 2.5°C 3)_____4)_____5)_____6)_____7)_____8)_____

Chain of custody:

16) (YES) NO Was a chain of custody received?

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

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

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

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

Sample Labels:

21) (YES) NO Were container labels in good condition?

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

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

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

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

Sample Containers:

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

27) (YES) NO Did all containers arrive unbroken?

28) YES (NO) Was there any leakage from samples?

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

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

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

32) YES (NO) NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea: _____

Smaller than a pea: _____

Preservation & Hold time:

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

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

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

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

37) (YES) NO NA Unpreserved VOA Vials received? _____

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

Lab notified if pH was not adequate: Metals filter and preserved. 1-25-12

Deficiencies:_____

Signature of personnel receiving samples: Yang Zu Second reviewer: _____

Signature of project manager notified:_____Date and Time of notification:_____

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

Information given to client:_____

_____ by whom (initials): _____

EPA 8015 Modified
Total Petroleum Hydrocarbons

EPA 8015 Modified
Total Petroleum Hydrocarbons
QC Summary

Method Blank
TPH Diesel Water

Blank Name/QCG: **120126W-53666 - 163455**
Batch ID: #TPETD-120126A

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	01/26/12	01/30/12
BLANK	LUBE OIL	212.0 U	500	212.0	106.0	ug/L	01/26/12	01/30/12
BLANK	SURROGATE: OCTACOSANE (S)	89.2	28-142			%	01/26/12	01/30/12
BLANK	SURROGATE: ORTHO-TERPHEN	89.9	57-132			%	01/26/12	01/30/12

Quant Method: TPH110.M
Run #: 126028
Instrument: Apollo
Sequence: 120126
Initials: MA

GC SC-Blank-REG MDLs
Printed: 01/31/12 10:46:41 AM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66795

Case No: 66795 Date Analyzed: 01/30/12

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120126A-BLK	Blank	28-142	89.2		57-132	89.9	
120126A-LCS	Lab Control Spike	28-142	82.7		57-132	114	
AY53666	ES057	28-142	96.4		57-132	95.8	
AY53667	ES058	28-142	84.7		57-132	78.4	
AY53668	ES059	28-142	106		57-132	92.5	

Comments: Batch: #TPETD-120126A

Laboratory Control Spike Recovery

TPH Diesel Water

APPL ID: **120126W-53666 LCS - 163455**
Batch ID: #TPETD-120126A

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	1820	91.0	61-143
LUBE OIL	2000	1790	89.5	61-143
SURROGATE: OCTACOSANE (S)	150	124	82.7	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	171	114	57-132

Comments:

Primary	SPK
Quant Method :	TPH110.M
Extraction Date :	01/26/12
Analysis Date :	01/30/12
Instrument :	Apollo
Run :	126029
Initials :	MA

Printed: 01/31/12 10:46:44 AM

APPL Standard LCS

EPA 8015B-e

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66795

Case No: 66795 Date Analyzed: 01/30/12

Matrix: WATER Instrument: Apollo

Blank ID: 120126A-BLK Time Analyzed: 1625

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120126A-BLK	Blank	126028	01/30/12 1625
120126A-LCS	Lab Control Spike	126029	01/30/12 1649
AY53666	ES057	126038	01/30/12 2022
AY53667	ES058	126039	01/30/12 2046
AY53668	ES059	126040	01/30/12 2110

Comments: Batch: #TPETD-120126A

EPA 8015 Modified
Total Petroleum Hydrocarbons
Sample Data

TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran
Project: RED HILL/1022-015

ARF: 66795

Sample ID: ES057

APPL ID: AY53666

Sample Collection Date: 01/24/12

QCG: #TPETD-120126A-163455

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	01/26/12	01/30/12
EPA 8015B-	LUBE OIL	212.0 U	500	212.0	106.0	ug/L	01/26/12	01/30/12
EPA 8015B-	SURROGATE: OCTACOSANE (S)	96.4	28-142			%	01/26/12	01/30/12
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	95.8	57-132			%	01/26/12	01/30/12

Quant Method: TPH110.M
Run #: 126038
Instrument: Apollo
Sequence: 120126
Dilution Factor: 1
Initials: MA

Printed: 01/31/12 10:47:06 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

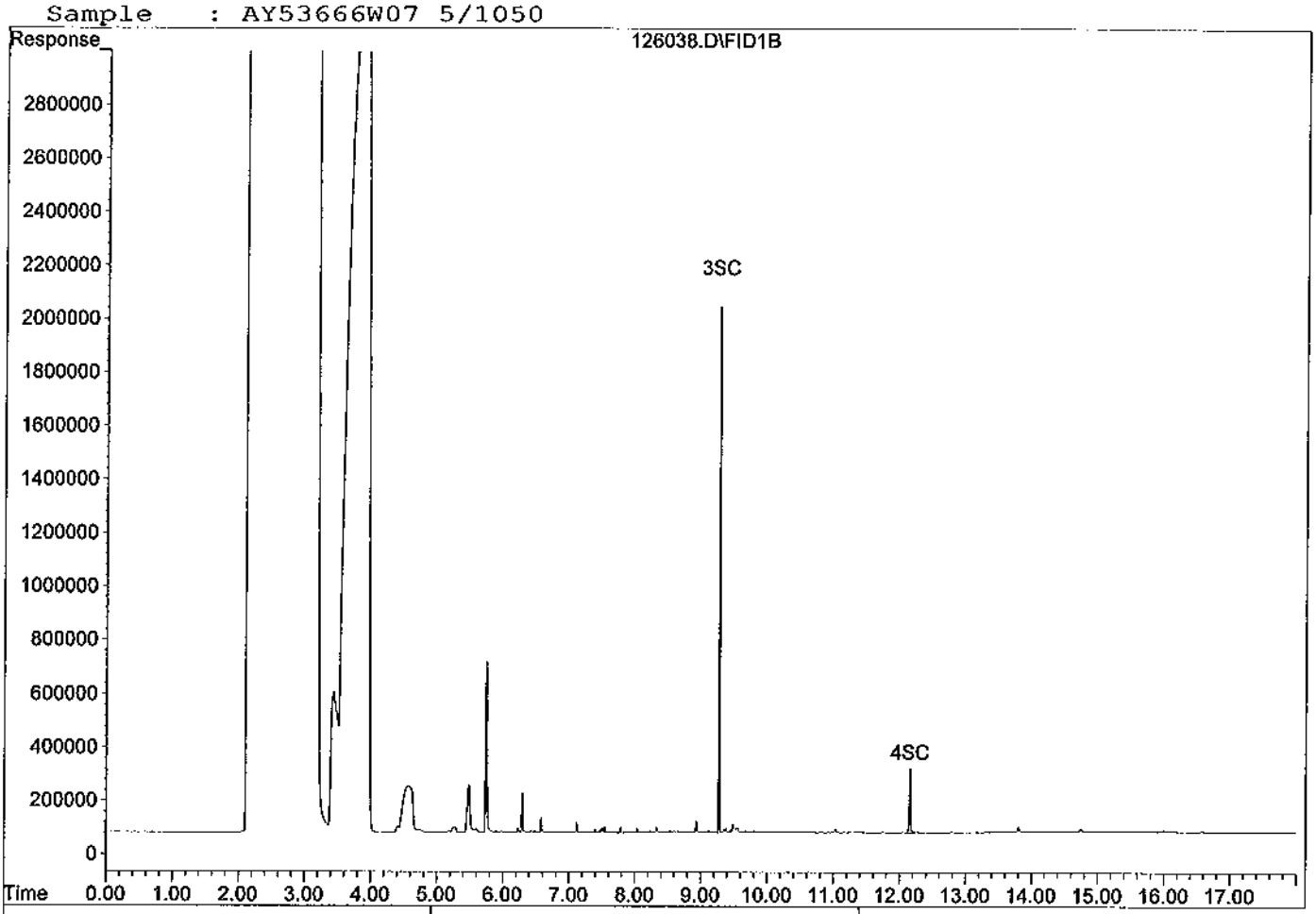
Data File : G:\APOLLO\DATA\120126\126038.D Vial: 38
Acq On : 1-30-12 20:22:50 Operator: LAC
Sample : AY53666W07 5/1050 Inst : Apollo
Misc : Water Multiplr: 4.76
IntFile : events.e
Quant Time: Jan 31 9:51 2012 Quant Results File: TPH110.RES

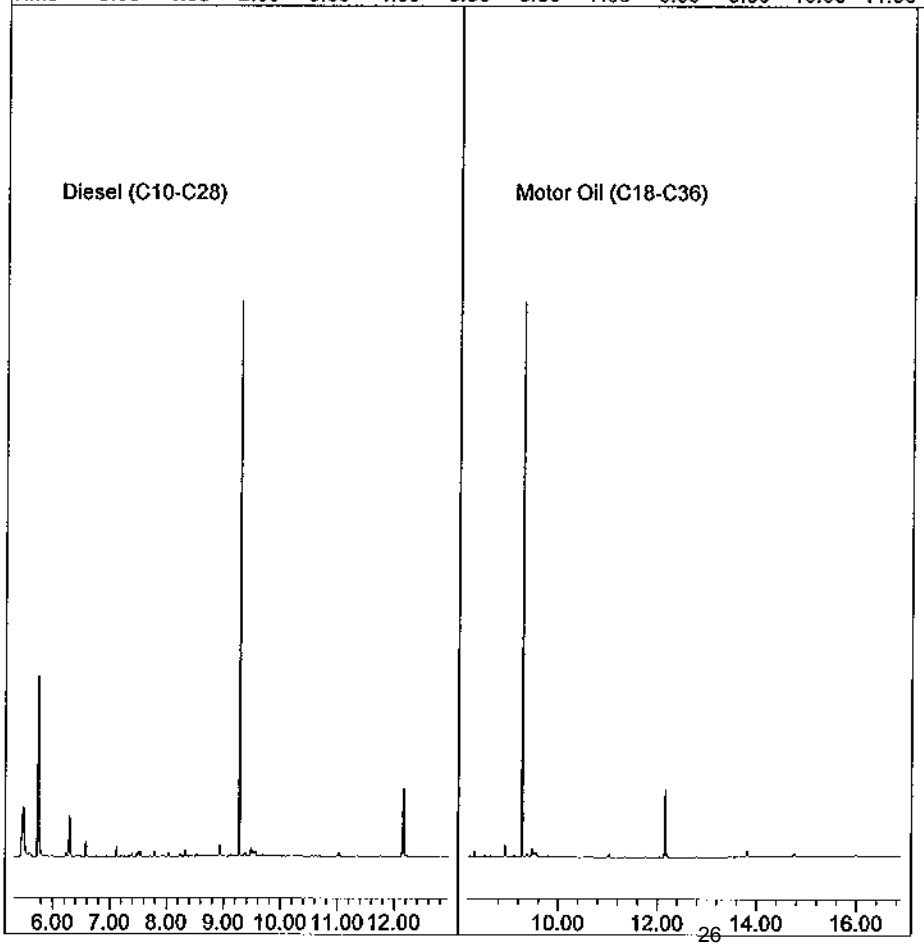
Method : G:\APOLLO\DATA\120126\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	12671041	136.920 ppb
Surrogate Spike 142.857		Recovery =	95.84%
4) SC Octacosane(S)	12.16	3308046	137.666 ppb
Surrogate Spike 142.857		Recovery =	96.37%
Target Compounds			

Data File: G:\APOLLO\DATA\120126\126038.D
Sample : AY53666W07 5/1050





TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen

Project: RED HILL/1022-015

ARF: 66795

Sample ID: ES058

APPL ID: AY53667

Sample Collection Date: 01/24/12

QCG: #TPETD-120126A-163455

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	01/26/12	01/30/12
EPA 8015B-	LUBE OIL	212.0 U	500	212.0	106.0	ug/L	01/26/12	01/30/12
EPA 8015B-	SURROGATE: OCTACOSANE (S)	84.7	28-142			%	01/26/12	01/30/12
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	78.4	57-132			%	01/26/12	01/30/12

Quant Method: TPH110.M
Run #: 126039
Instrument: Apollo
Sequence: 120126
Dilution Factor: 1
Initials: MA

Printed: 02/17/12 10:37:21 AM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

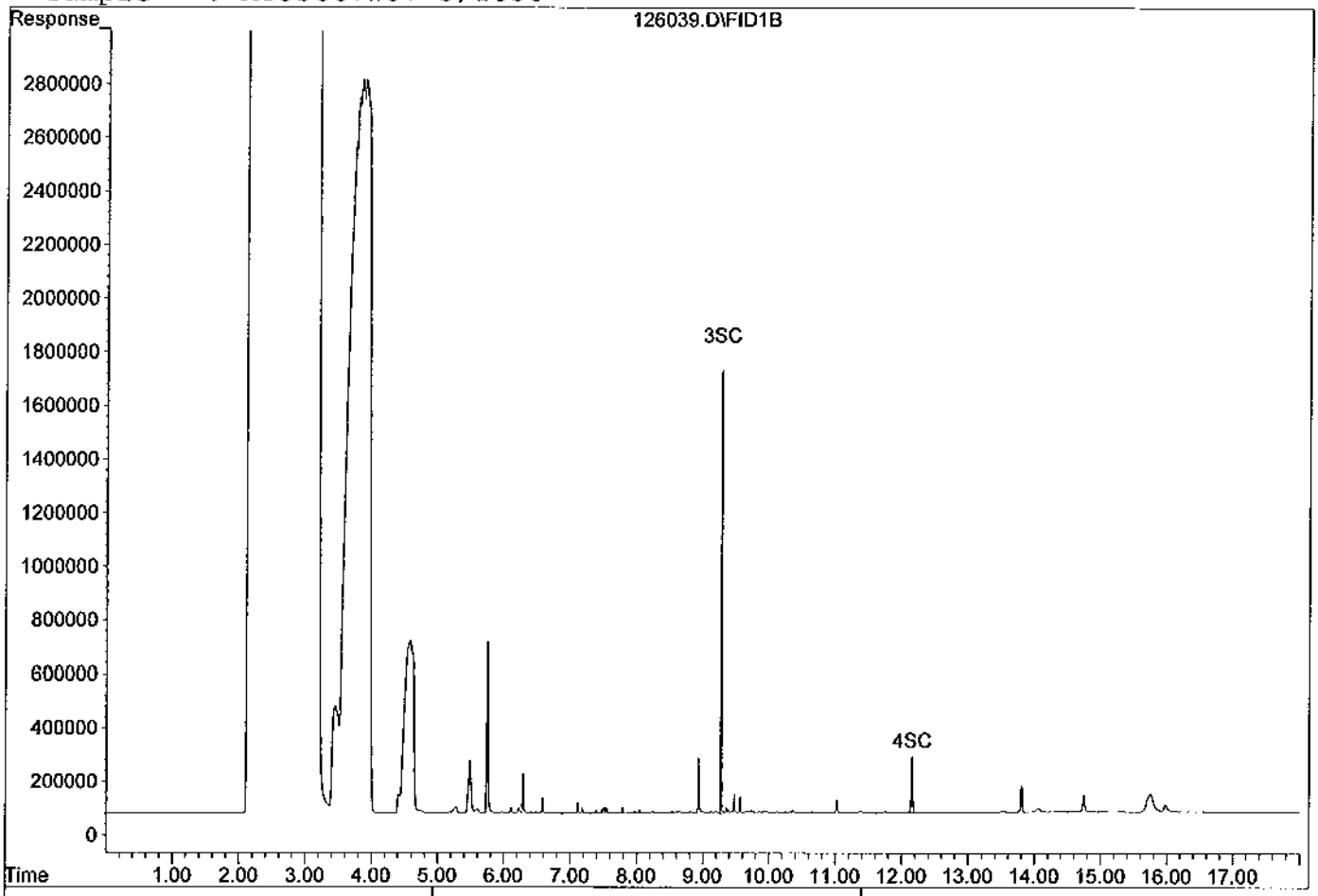
Data File : G:\APOLLO\DATA\120126\126039.D Vial: 39
Acq On : 1-30-12 20:46:29 Operator: LAC
Sample : AY53667W07 5/1050 Inst : Apollo
Misc : Water Multiplr: 4.76
IntFile : events.e
Quant Time: Feb 17 10:34 2012 Quant Results File: TPH110.RES

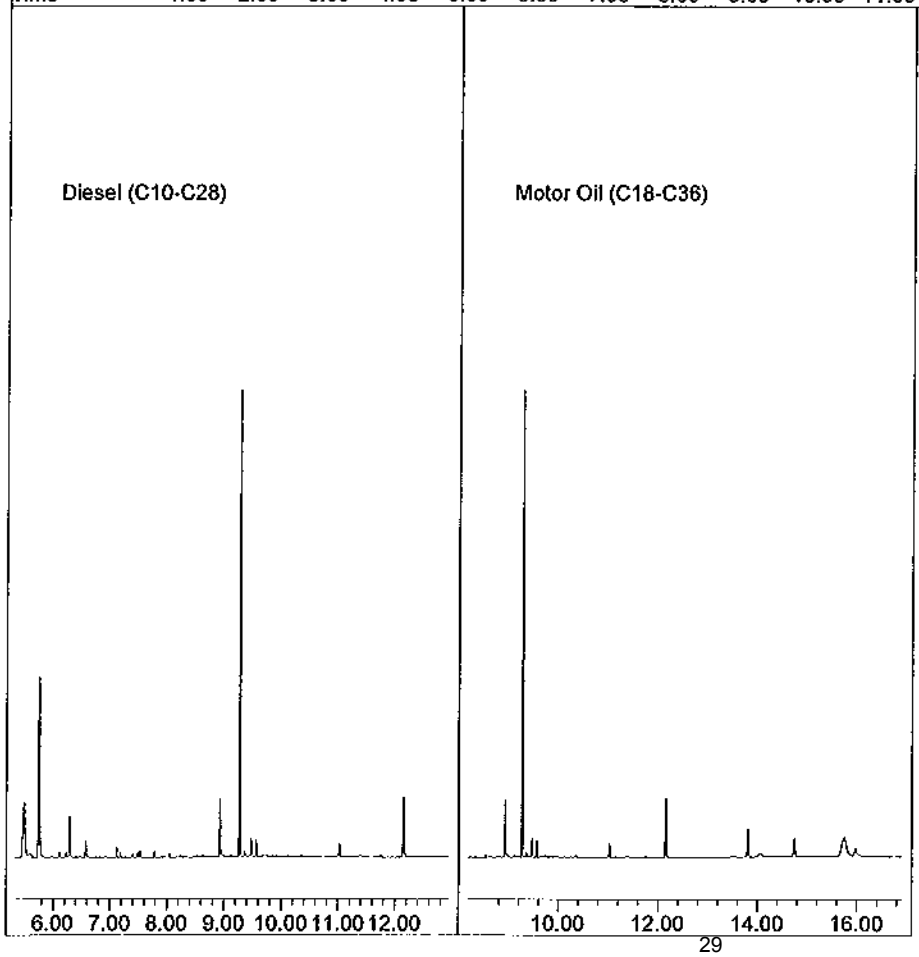
Method : G:\APOLLO\DATA\120126\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	10368282	112.037 ppb
Surrogate Spike 142.857		Recovery =	78.43%
4) SC Octacosane(S)	12.16	2906296	120.947 ppb
Surrogate Spike 142.857		Recovery =	84.66%
Target Compounds			

Data File: G:\APOLLO\DATA\120126\126039.D
Sample : AY53667W07 5/1050





TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen

Project: RED HILL/1022-015

ARF: 66795

Sample ID: ES059

APPL ID: AY53668

Sample Collection Date: 01/24/12

QCG: #TPETD-120126A-163455

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	01/26/12	01/30/12
EPA 8015B-	LUBE OIL	212.0 U	500	212.0	106.0	ug/L	01/26/12	01/30/12
EPA 8015B-	SURROGATE: OCTACOSANE (S)	106	28-142			%	01/26/12	01/30/12
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	92.5	57-132			%	01/26/12	01/30/12

Quant Method: TPH110.M
Run #: 126040
Instrument: Apollo
Sequence: 120126
Dilution Factor: 1
Initials: MA

Printed: 02/17/12 10:37:21 AM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120126\126040.D Vial: 40
Acq On : 1-30-12 21:10:09 Operator: LAC
Sample : AY53668W07 5/1050 Inst : Apollo
Misc : water Multiplr: 4.76
IntFile : events.e
Quant Time: Feb 17 10:34 2012 Quant Results File: TPH110.RES

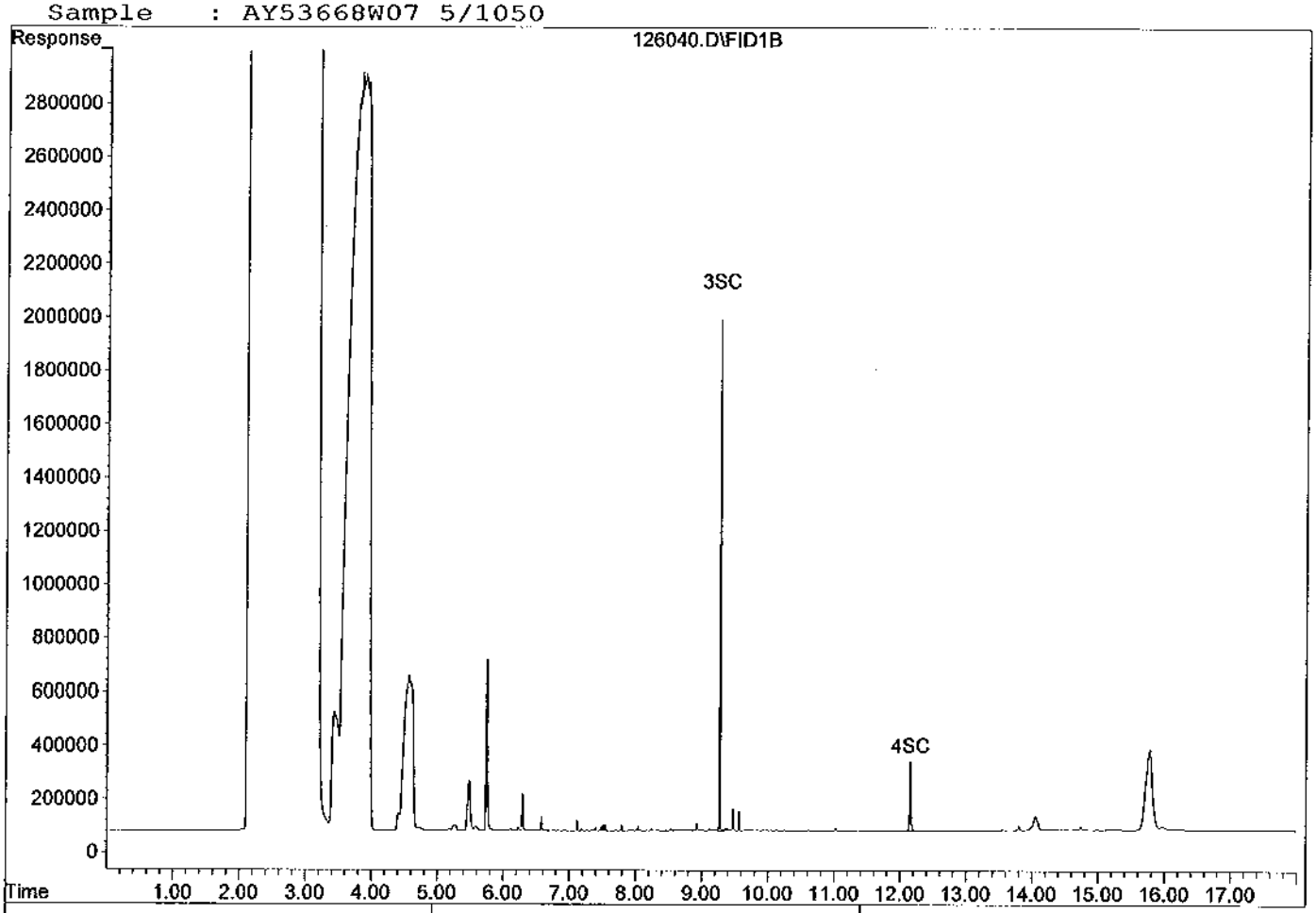
Method : G:\APOLLO\DATA\120126\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

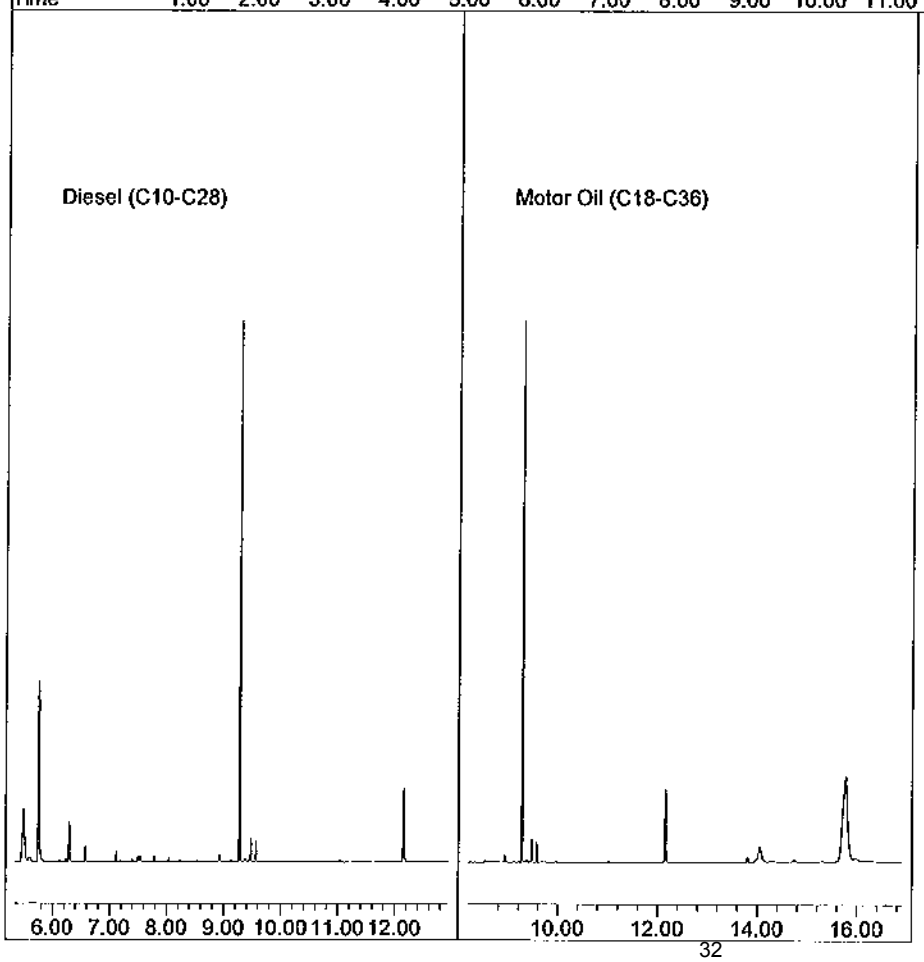
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	12234379	132.202 ppb
Surrogate Spike 142.857		Recovery =	92.54%
4) SC Octacosane(S)	12.16	3641238	151.532 ppb
Surrogate Spike 142.857		Recovery =	106.07%
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\120126\126040.D
Sample : AY53668W07 5/1050





EPA 8015 Modified
Total Petroleum Hydrocarbons

Calibration Data

TPH Extractables
TPH110

Form 6
Initial Calibration

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

SDG No: 66795
Initial Cal. Date: 01/10/12
Instrument: Apollo

Initials: MA

Diesel	110005.D	110006.D	110007.D	110008.D	110009.D	110010.D	
Motor oil	110011.D	110012.D	110013.D	110014.D	110015.D	110016.D	
surrogates	110018.D	110019.D	110020.D	110021.D	110022.D	110023.D	

		Compound	1	2	3	4	5	6					Avg	%RSD		
1	HATML	Diesel (C10-C28)	301375	187119	180263	180711	181942	183406					202470	24	HATML	1.000
2	HBTM	Motor Oil (C18-C36)	73318	66482	78358	85039	88255	92384					80639	12	HBTM	
3	SC	Ortho-Terphenyl(S)	190742	237568	220390	224376	220235	228734					220341	7.2	SC	
4	SC	Octacosane(S)		57639	56092	56515	56661	59156					57213	2.1	SC	
5																
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1.2968169

Quantitation Report (Not Reviewed)

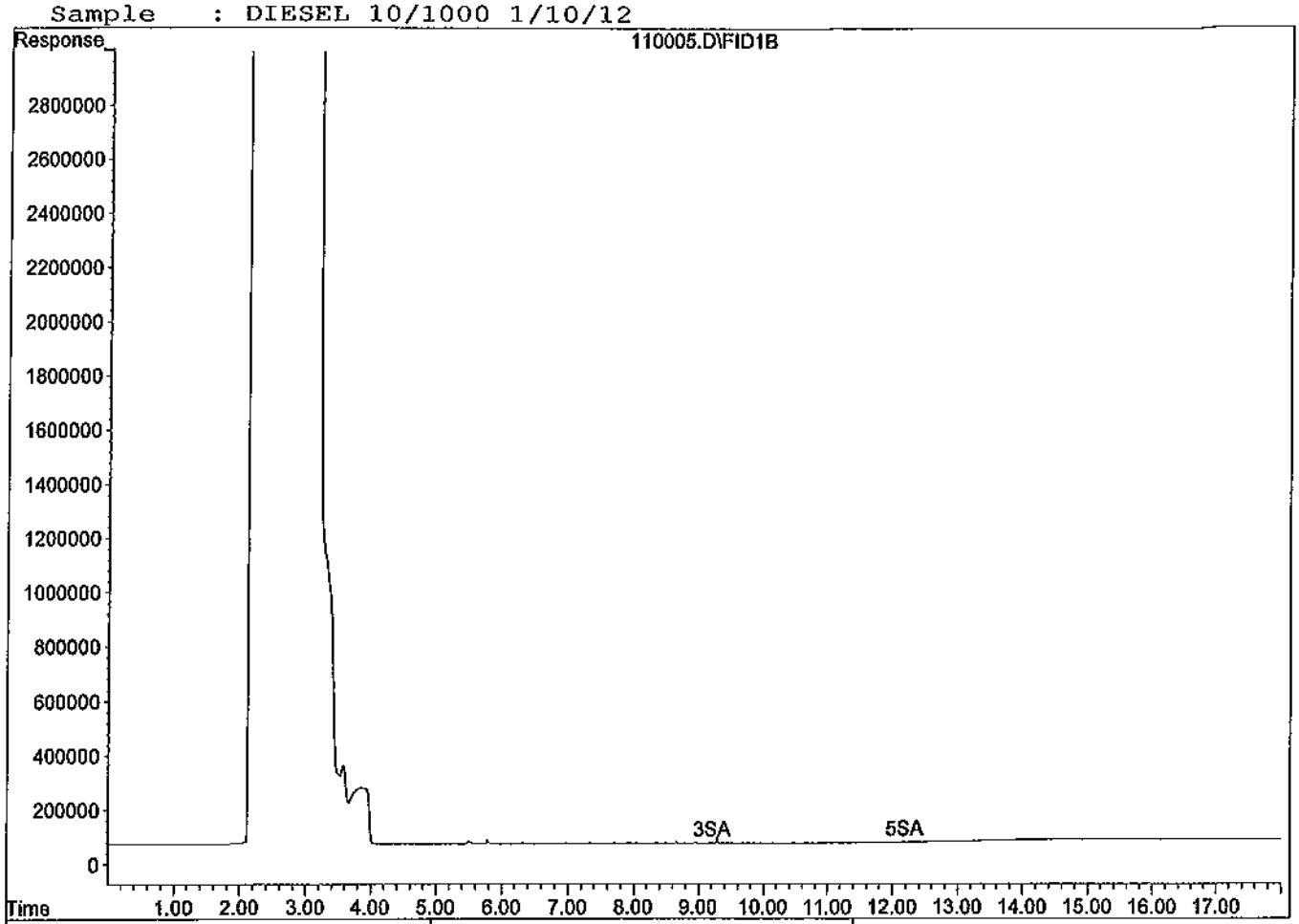
Data File : G:\APOLLO\DATA\120110\110005.D Vial: 5
Acq On : 1-10-12 16:51:33 Operator: LAC
Sample : DIESEL 10/1000 1/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

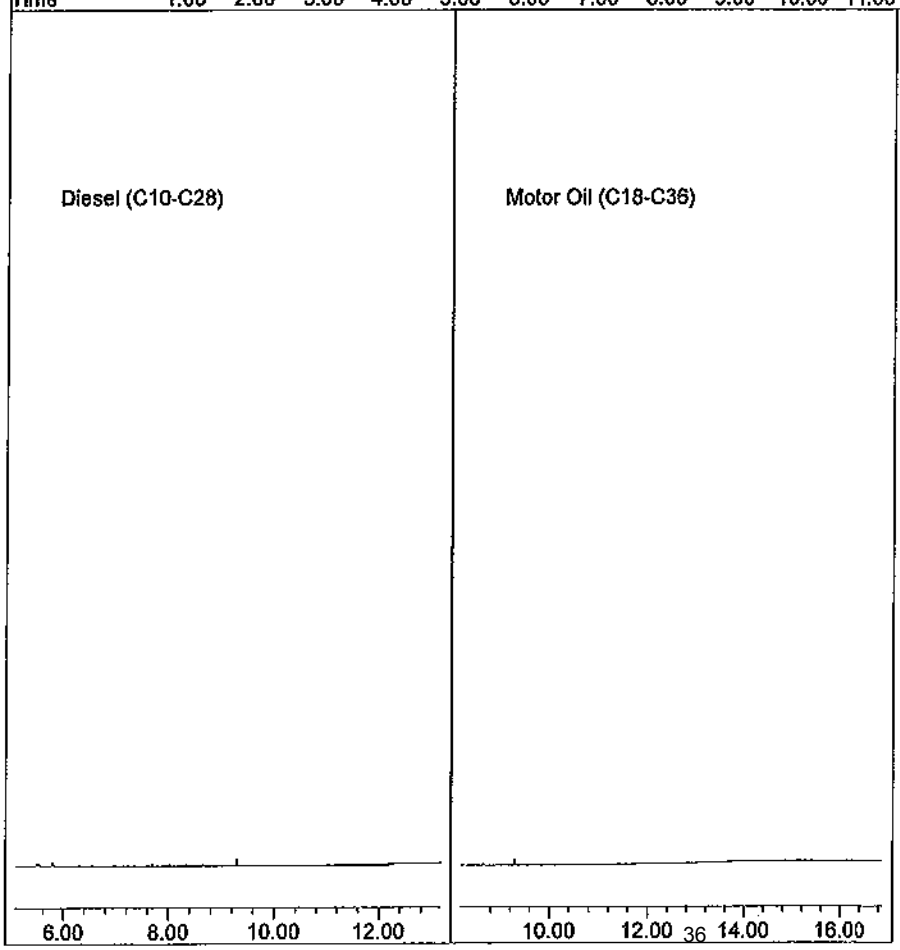
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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	41035	0.290 ppb
Surrogate Spike 30.000	Recovery	=	0.97%
5) SA Not Used2(S)	12.19	18093	0.172 ppb
Surrogate Spike 30.000	Recovery	=	0.57%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	6027495	14.806 ppb

Data File: G:\APOLLO\DATA\120110\110005.D
Sample : DIESEL 10/1000 1/10/12





Quantitation Report (Not Reviewed)

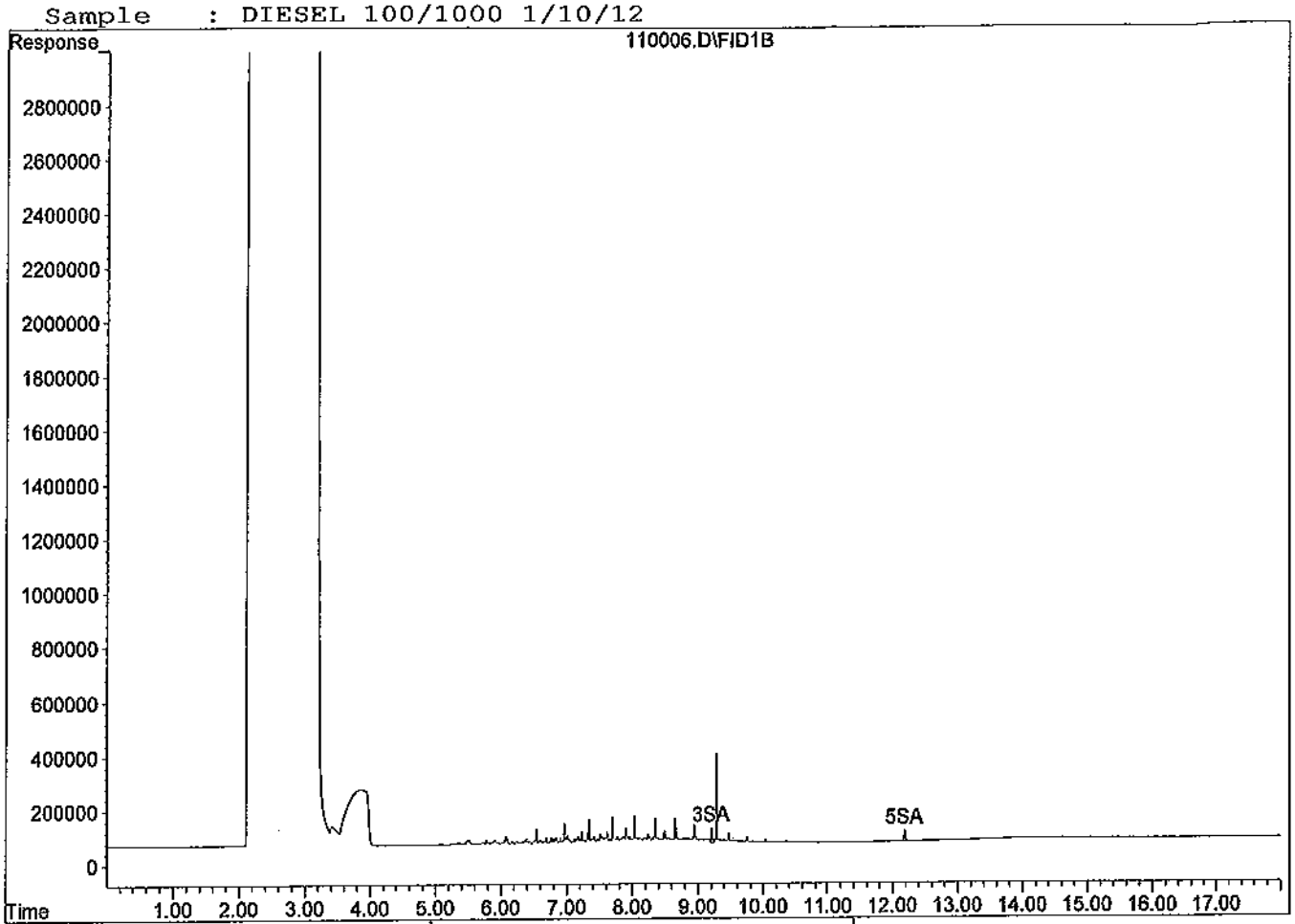
Data File : G:\APOLLO\DATA\120110\110006.D Vial: 6
Acq On : 1-10-12 17:15:27 Operator: LAC
Sample : DIESEL 100/1000 1/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

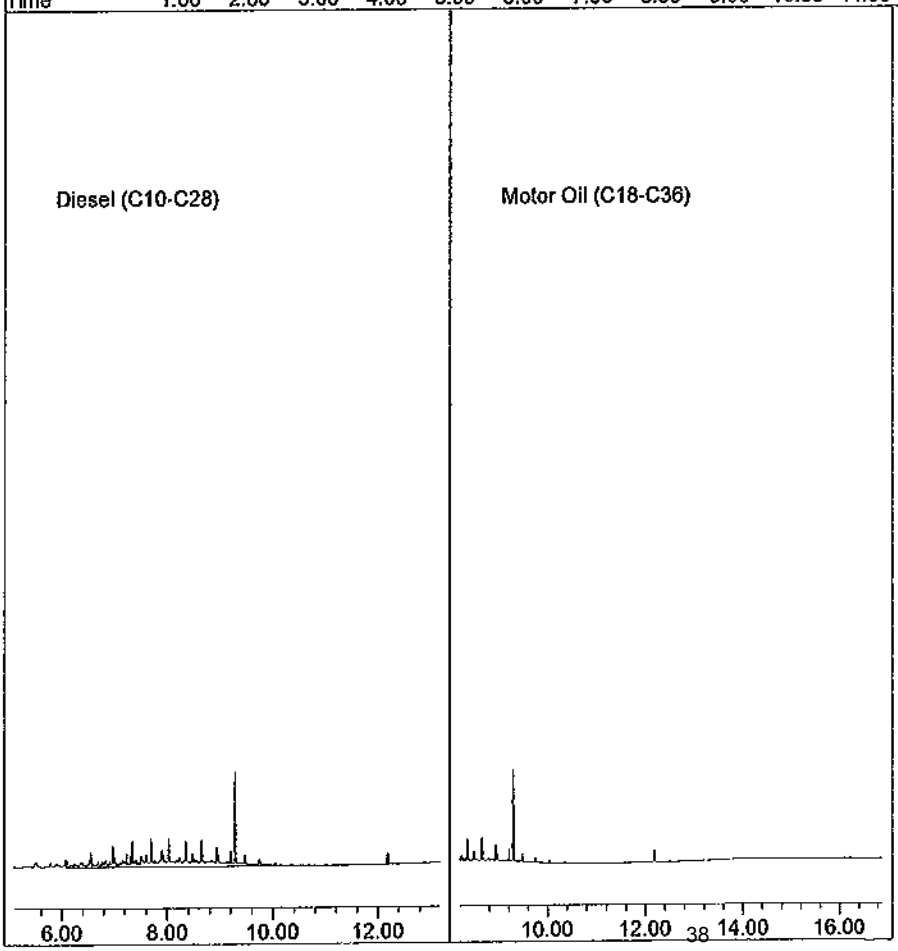
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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	636812	4.504 ppb
Surrogate Spike 30.000	Recovery	=	15.01%
5) SA Not Used2(S)	12.18	537522	5.110 ppb
Surrogate Spike 30.000	Recovery	=	17.03%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	37423772	101.113 ppb

Data File: G:\APOLLO\DATA\120110\110006.D
Sample : DIESEL 100/1000 1/10/12





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120110\110007.D Vial: 7
Acq On : 1-10-12 17:39:13 Operator: LAC
Sample : DIESEL 400/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

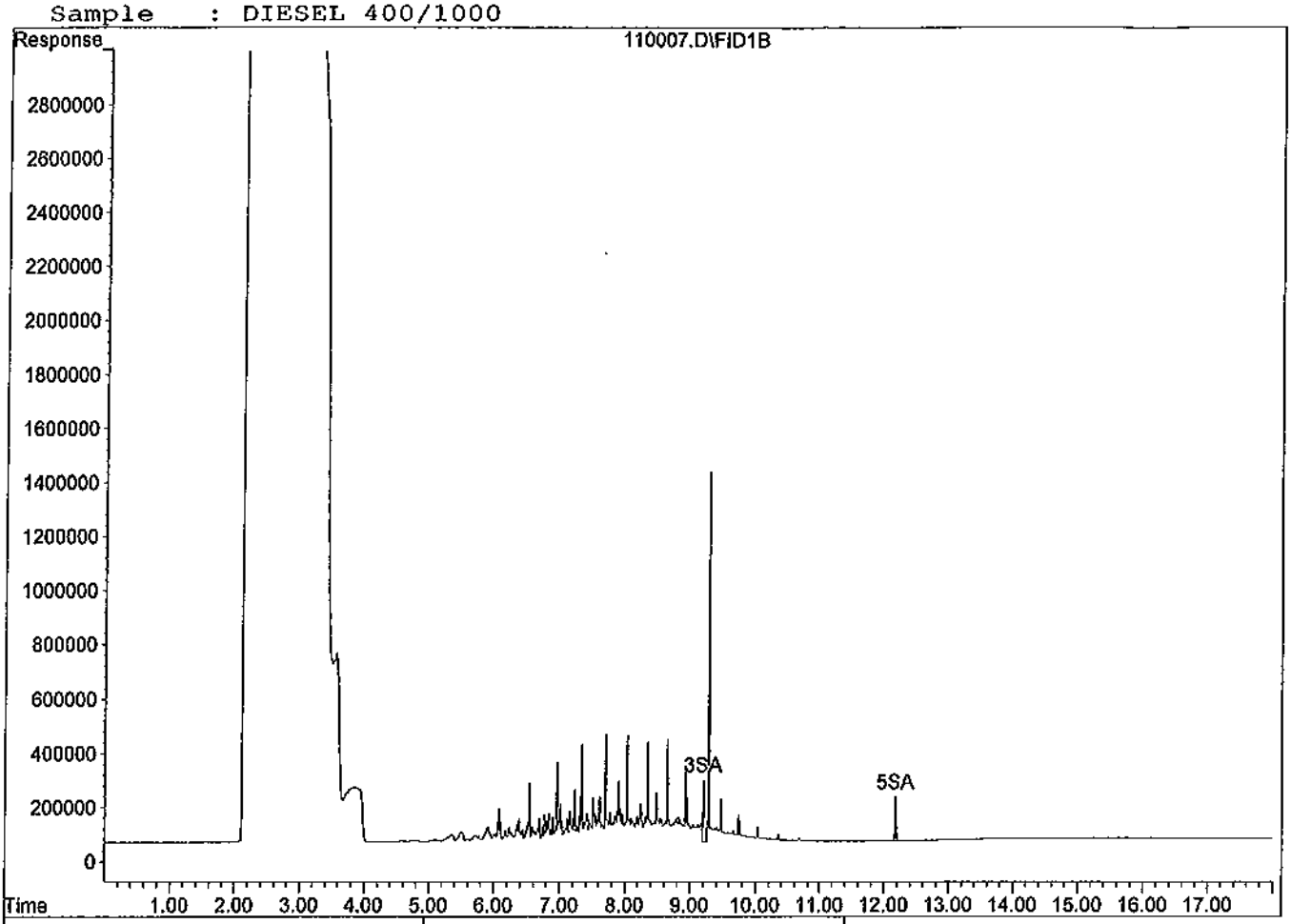
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

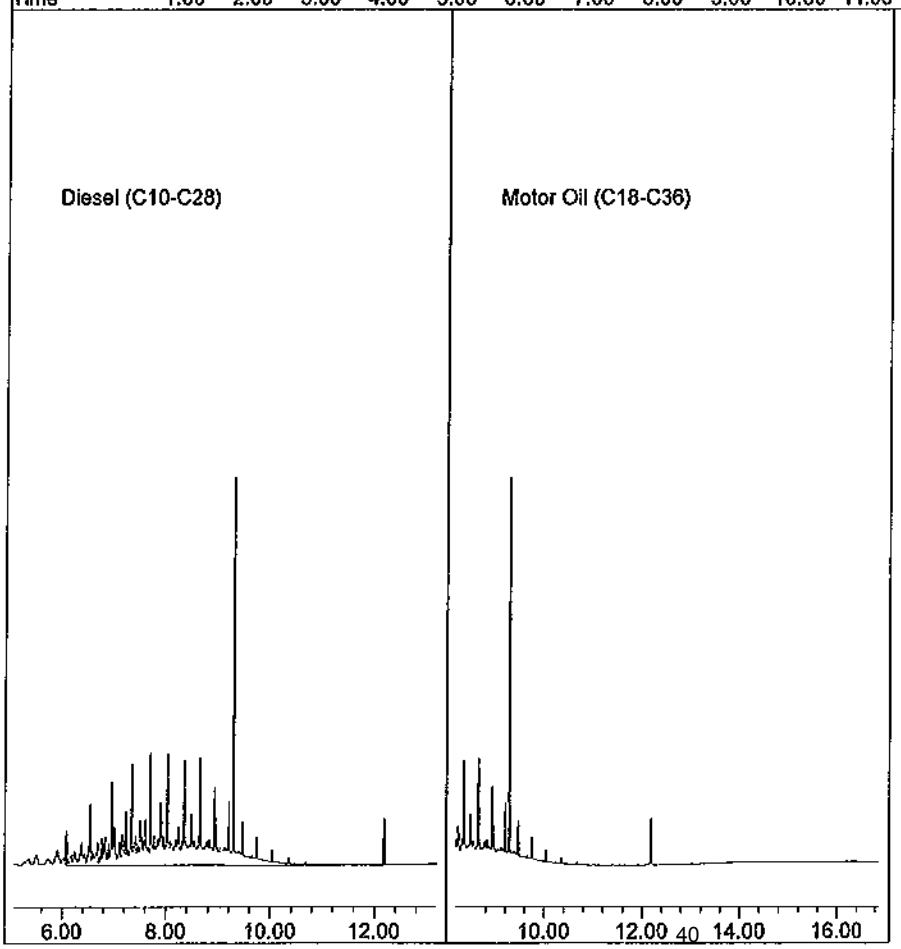
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.21	3041362	21.509 ppb
Surrogate Spike 30.000	Recovery	=	71.70%
5) SA Not Used2(S)	12.18	2048967	19.480 ppb
Surrogate Spike 30.000	Recovery	=	64.93%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	144214362	394.674 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\120110\110007.D
Sample : DIESEL 400/1000





Quantitation Report (Not Reviewed)

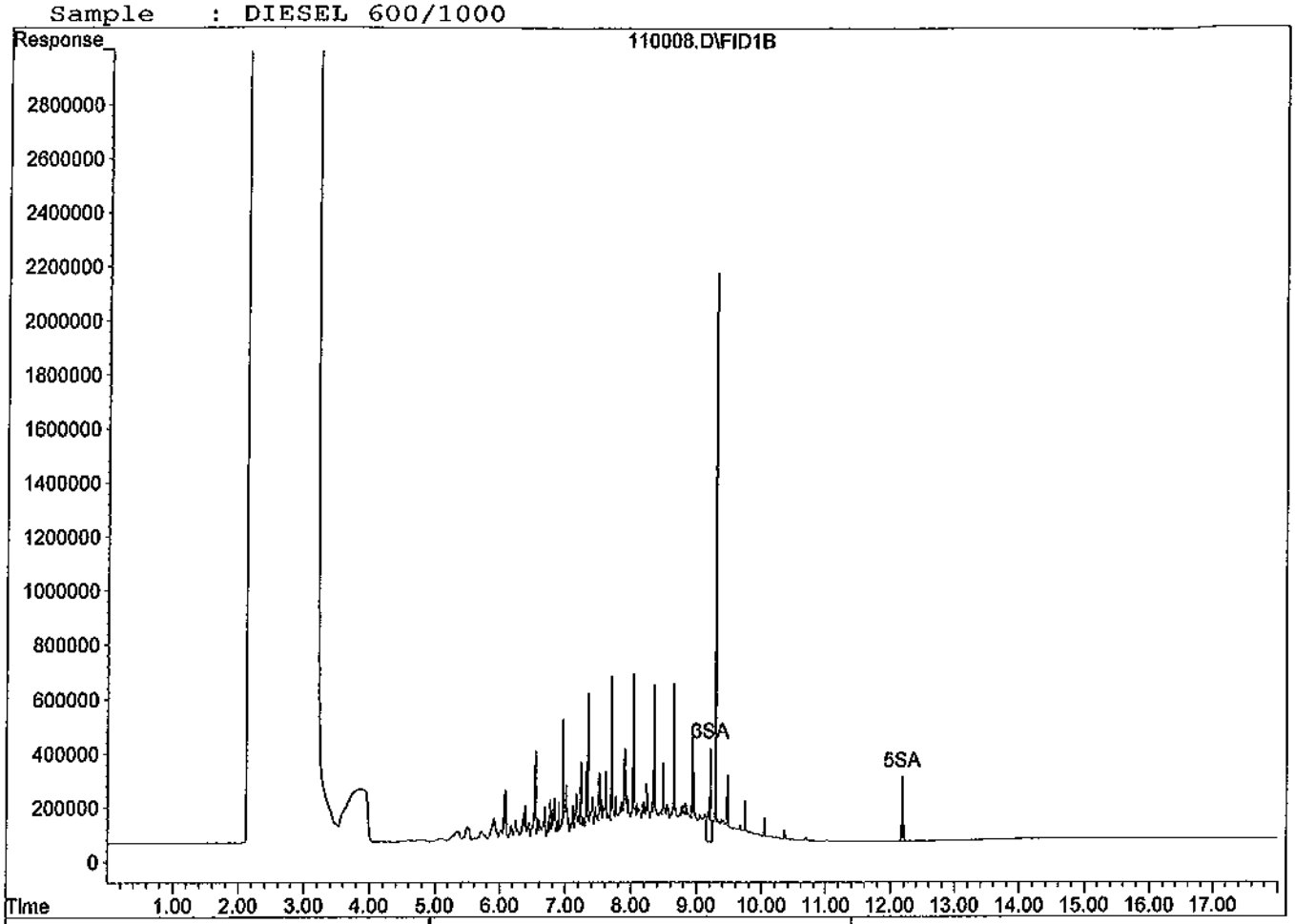
Data File : G:\APOLLO\DATA\120110\110008.D Vial: 8
Acq On : 1-10-12 18:02:56 Operator: LAC
Sample : DIESEL 600/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

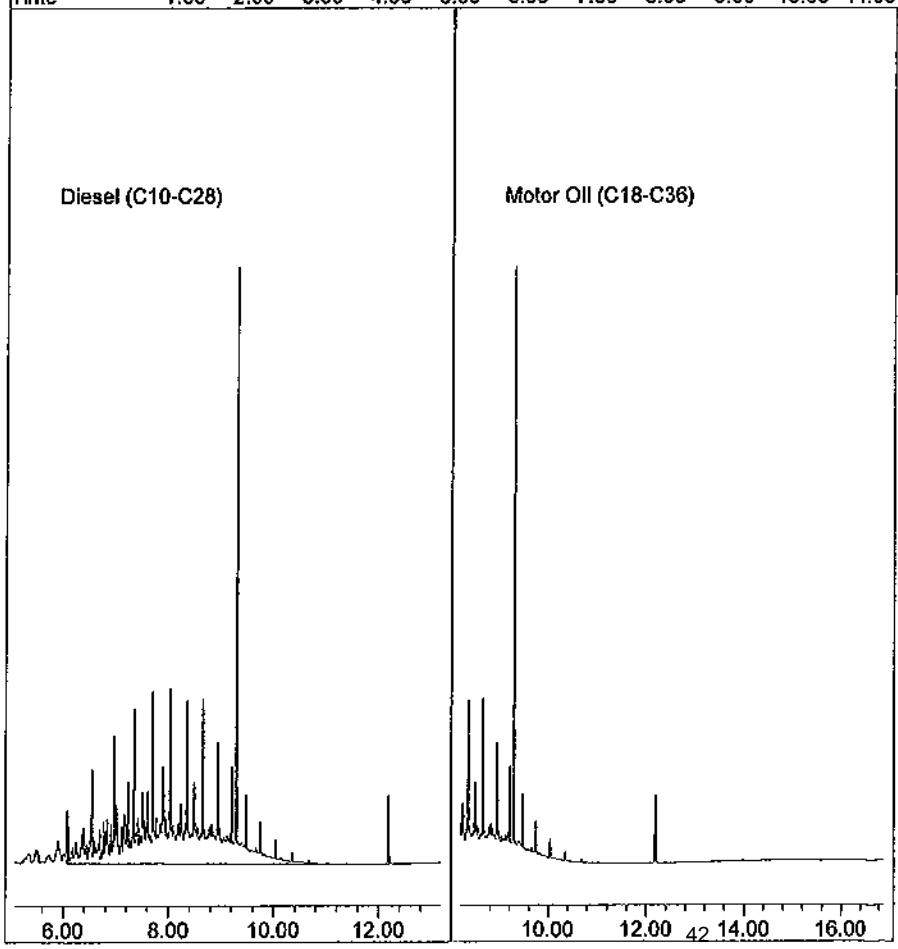
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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	6362542	44.998 ppb
Surrogate Spike 30.000	Recovery =		149.99%
5) SA Not Used2(S)	12.18	3151704	29.965 ppb
Surrogate Spike 30.000	Recovery =		99.88%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	216853093	594.353 ppb

Data File: G:\APOLLO\DATA\120110\110008.D
Sample : DIESEL 600/1000





Quantitation Report (Not Reviewed)

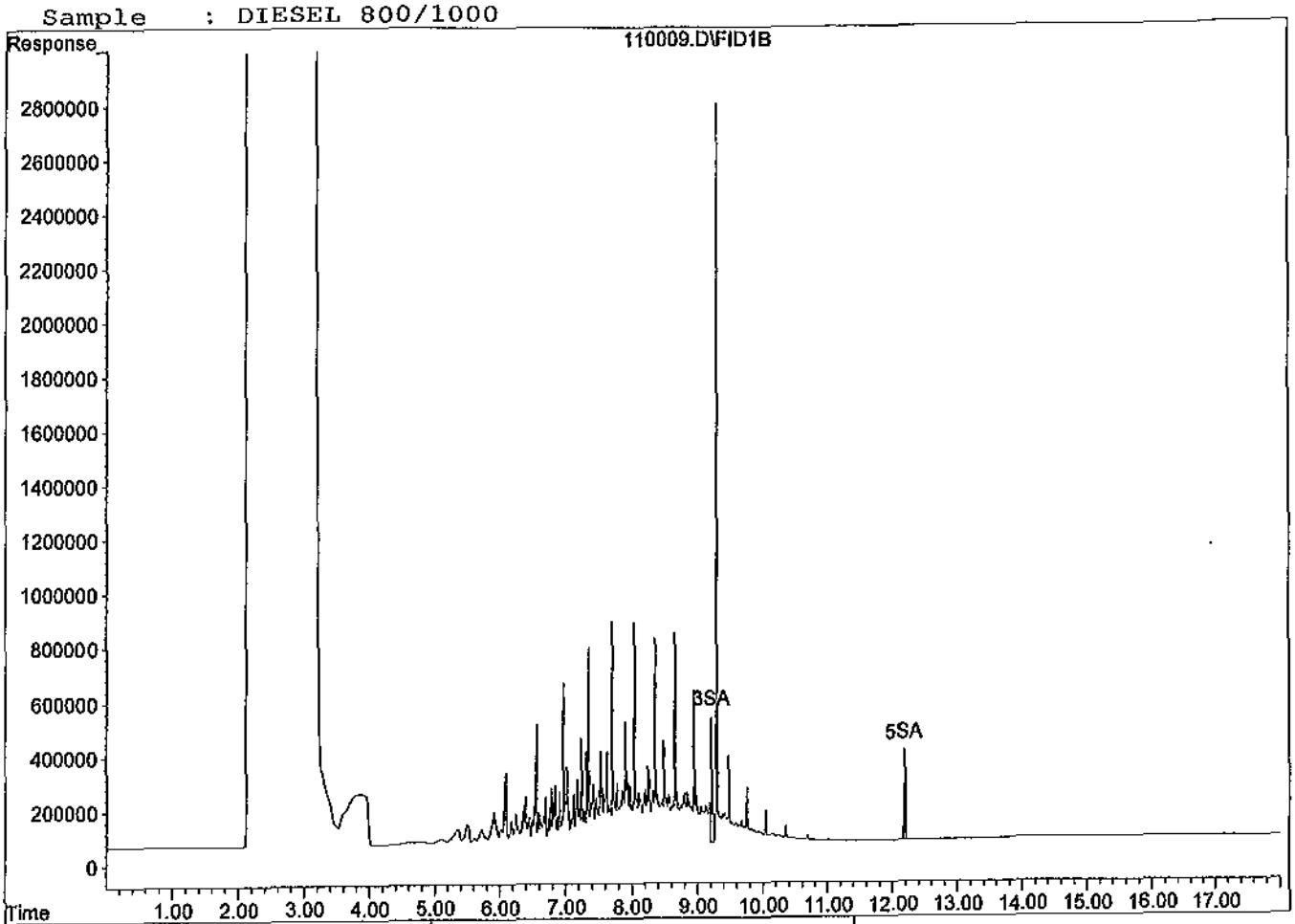
Data File : G:\APOLLO\DATA\120110\110009.D Vial: 9
Acq On : 1-10-12 18:26:41 Operator: LAC
Sample : DIESEL 800/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

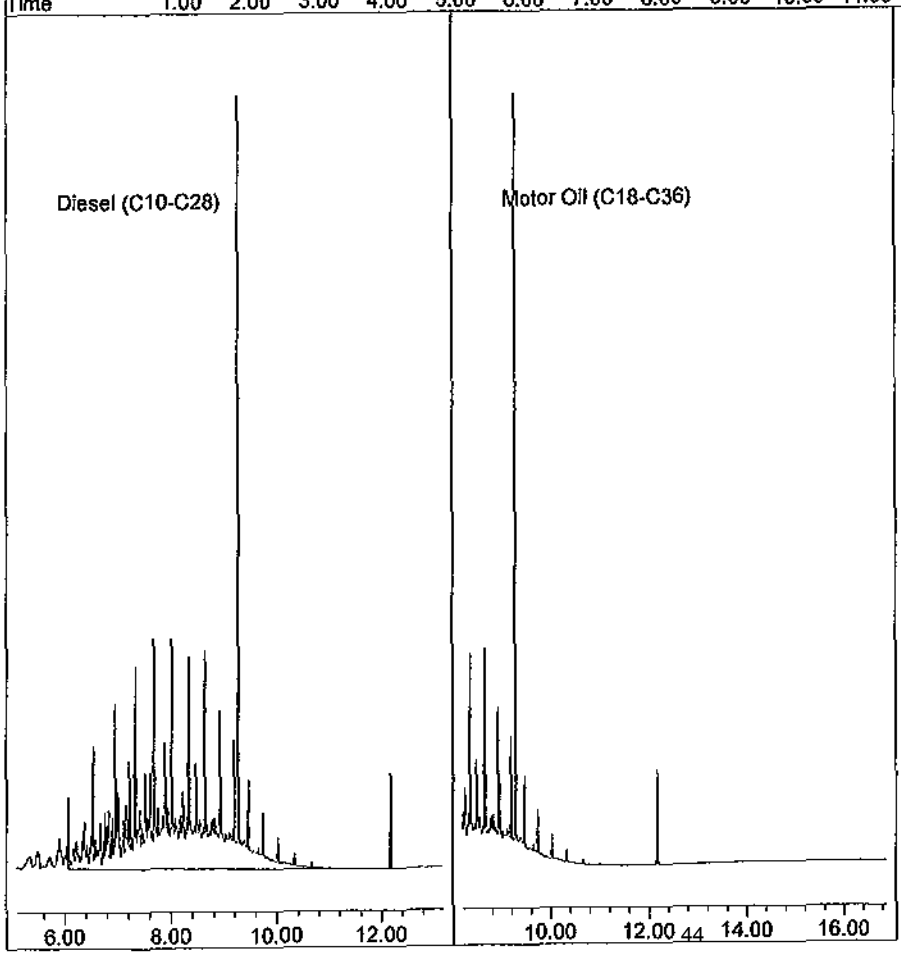
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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	5459165	38.609 ppb
Surrogate Spike 30.000	Recovery =		128.70%
5) SA Not Used2(S)	12.18	4214185	40.066 ppb
Surrogate Spike 30.000	Recovery =		133.55%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	291107205	798.473 ppb

Data File: G:\APOLLO\DATA\120110\110009.D
Sample : DIESEL 800/1000





Quantitation Report (Not Reviewed)

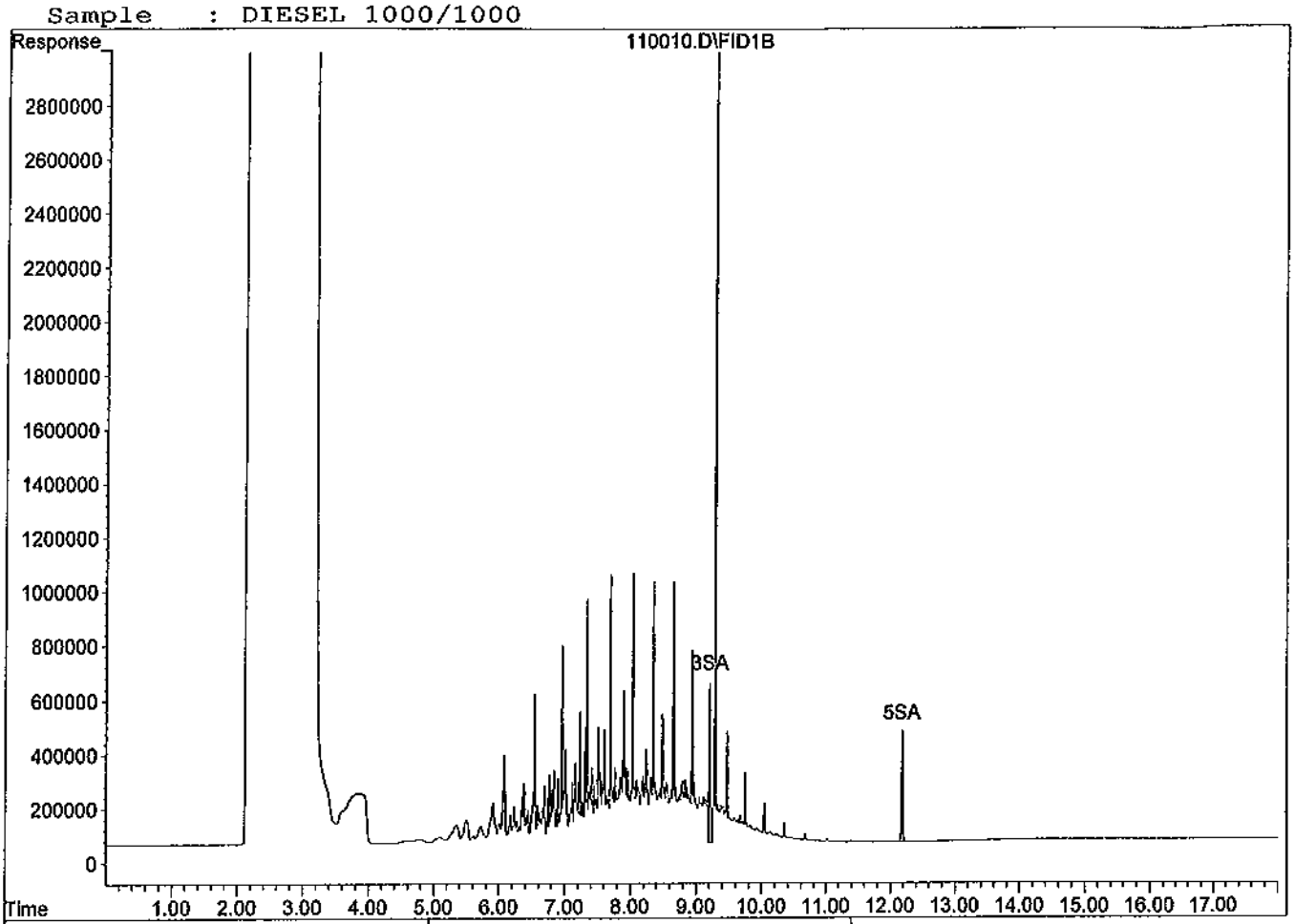
Data File : G:\APOLLO\DATA\120110\110010.D Vial: 10
Acq On : 1-10-12 18:50:21 Operator: LAC
Sample : DIESEL 1000/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

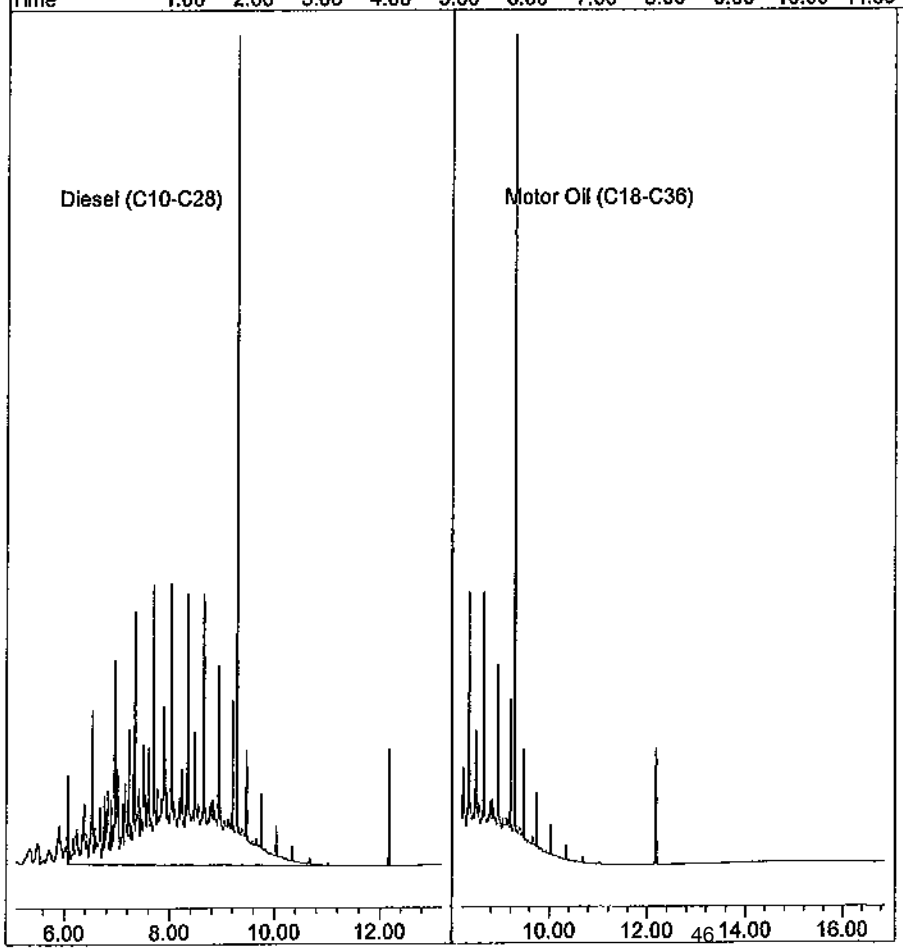
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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	6915848	48.911 ppb
Surrogate Spike 30.000	Recovery	=	163.04%
5) SA Not Used2(S)	12.18	5277007	50.171 ppb
Surrogate Spike 30.000	Recovery	=	167.24%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	366811636	1006.580 ppb

Data File: G:\APOLLO\DATA\120110\110010.D
Sample : DIESEL 1000/1000





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120110\110011.D Vial: 11
Acq On : 1-10-12 19:14:04 Operator: LAC
Sample : MOTOR OIL 50/1000 1/10/12 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

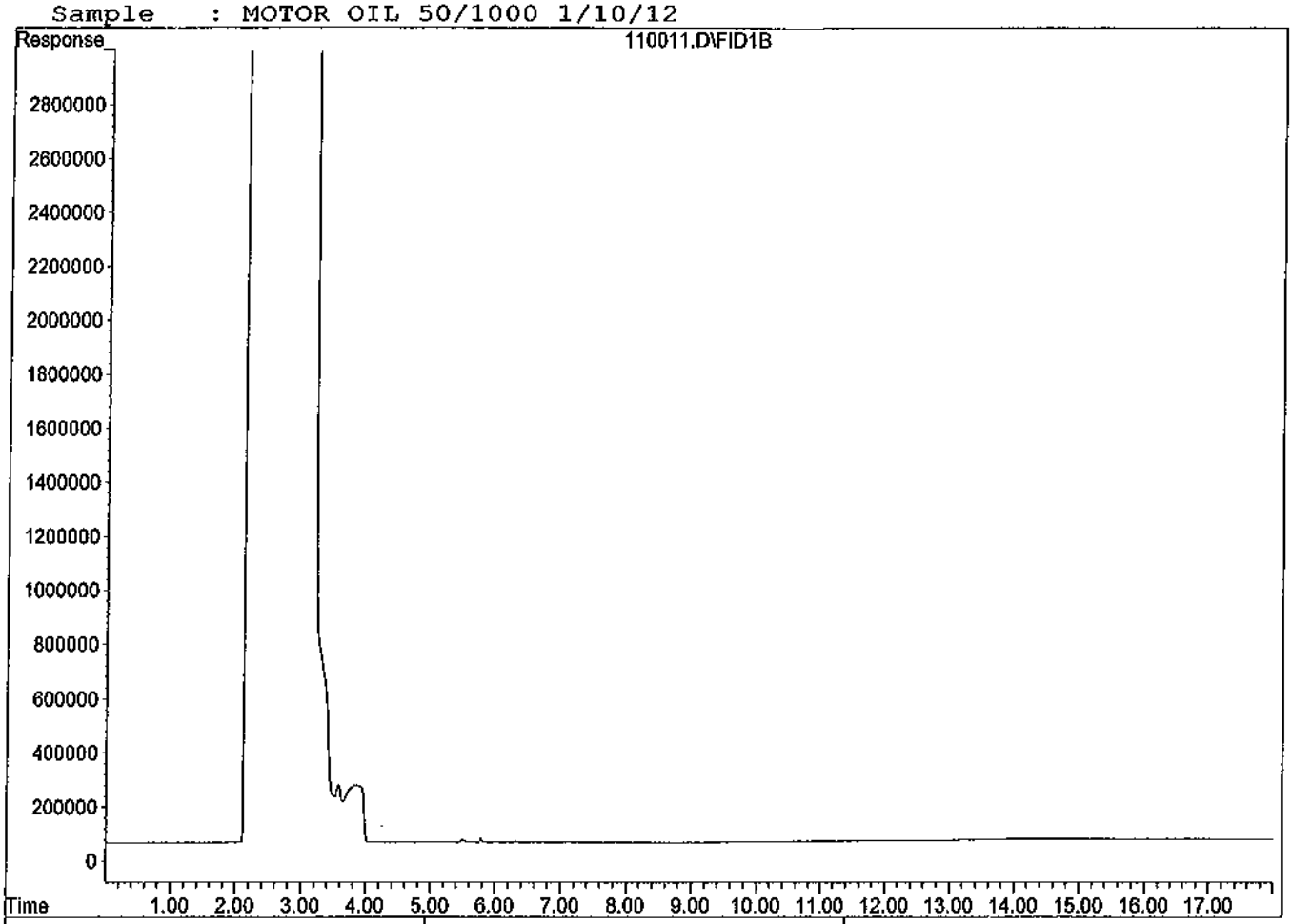
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

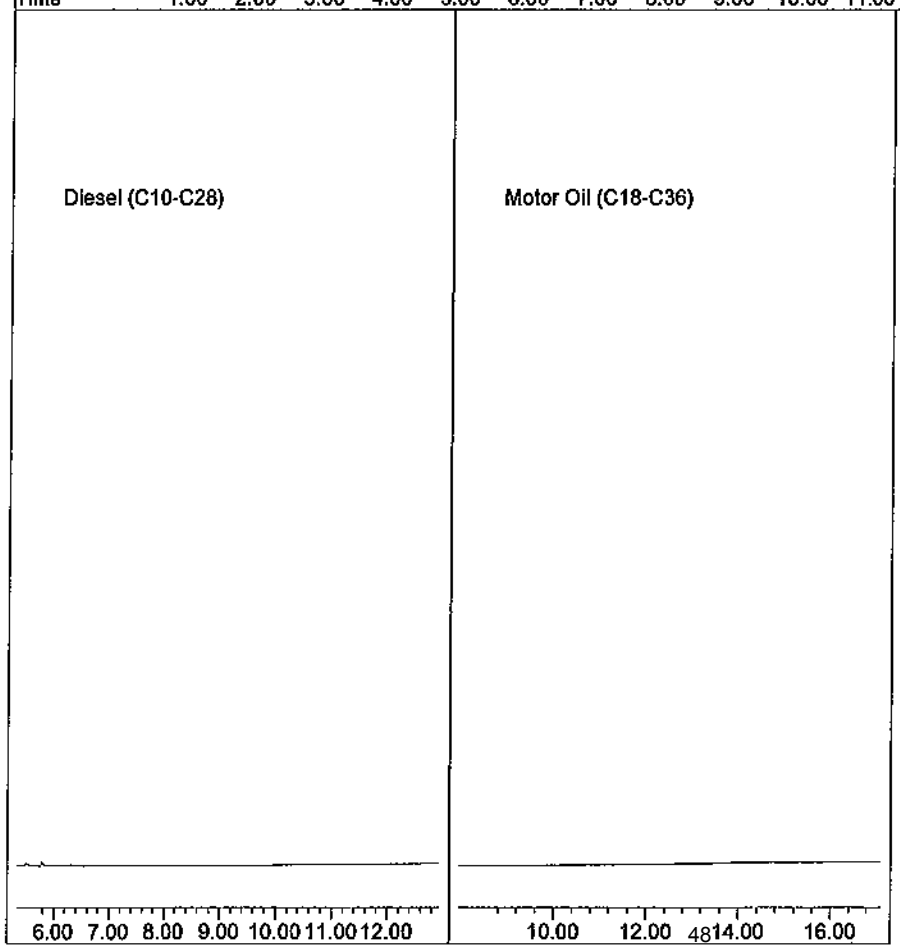
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.55	7331773	27.230 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\120110\110011.D
Sample : MOTOR OIL 50/1000 1/10/12

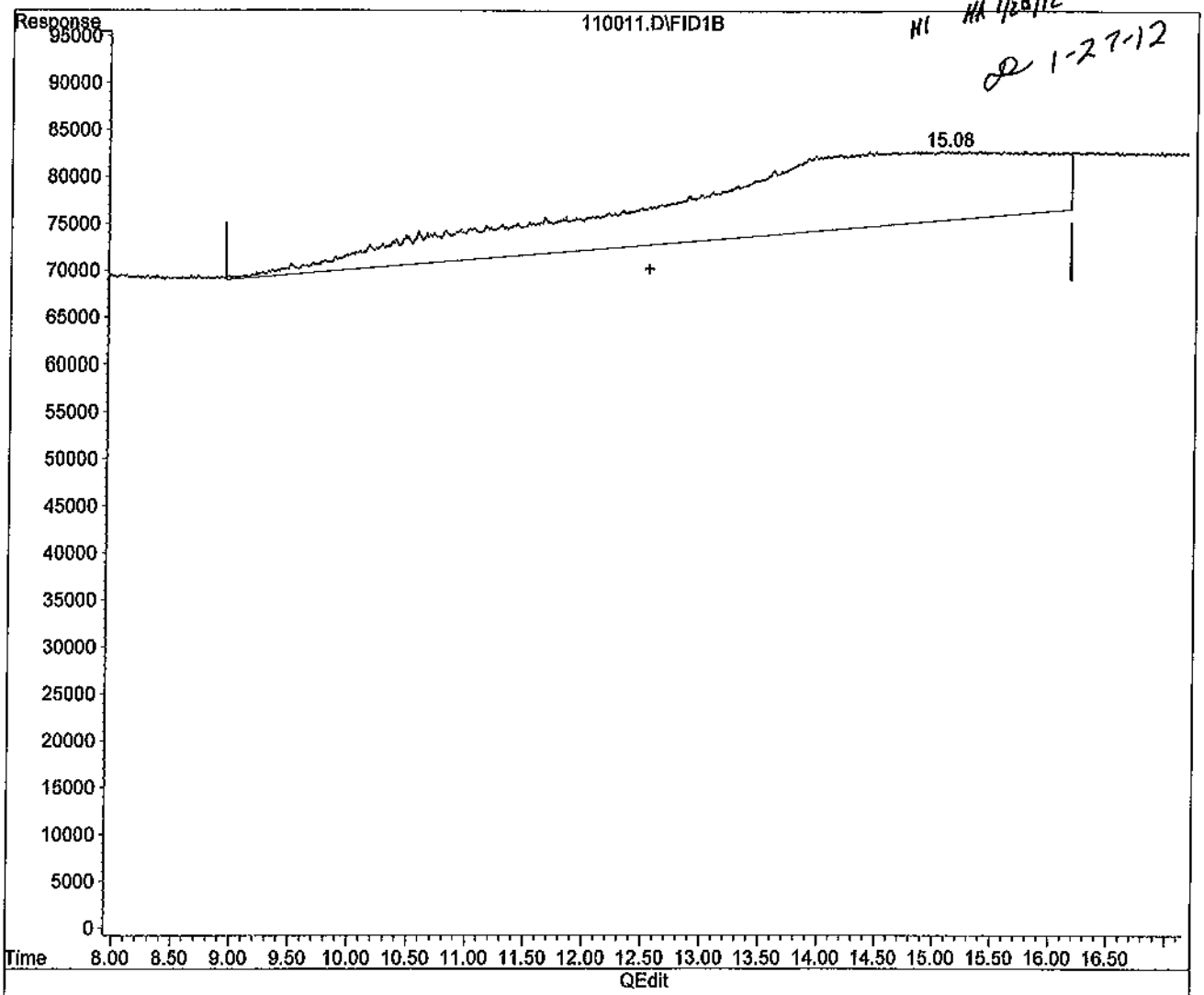




Quantitation Report

Data File : G:\APOLLO\DATA\120110\110011.D Vial: 11
Acq On : 1-10-12 19:14:04 Operator: LAC
Sample : MOTOR OIL 50/1000 1/10/12 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:18 2012 Quant Results File: TPH110.RES

Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Jan 24 11:56:18 2012
Response via : Multiple Level Calibration



HH 1/26/12
JR 1-27-12

(2) Motor Oil (C18-C36) (HBTM)

12.55min 94.695ppb m

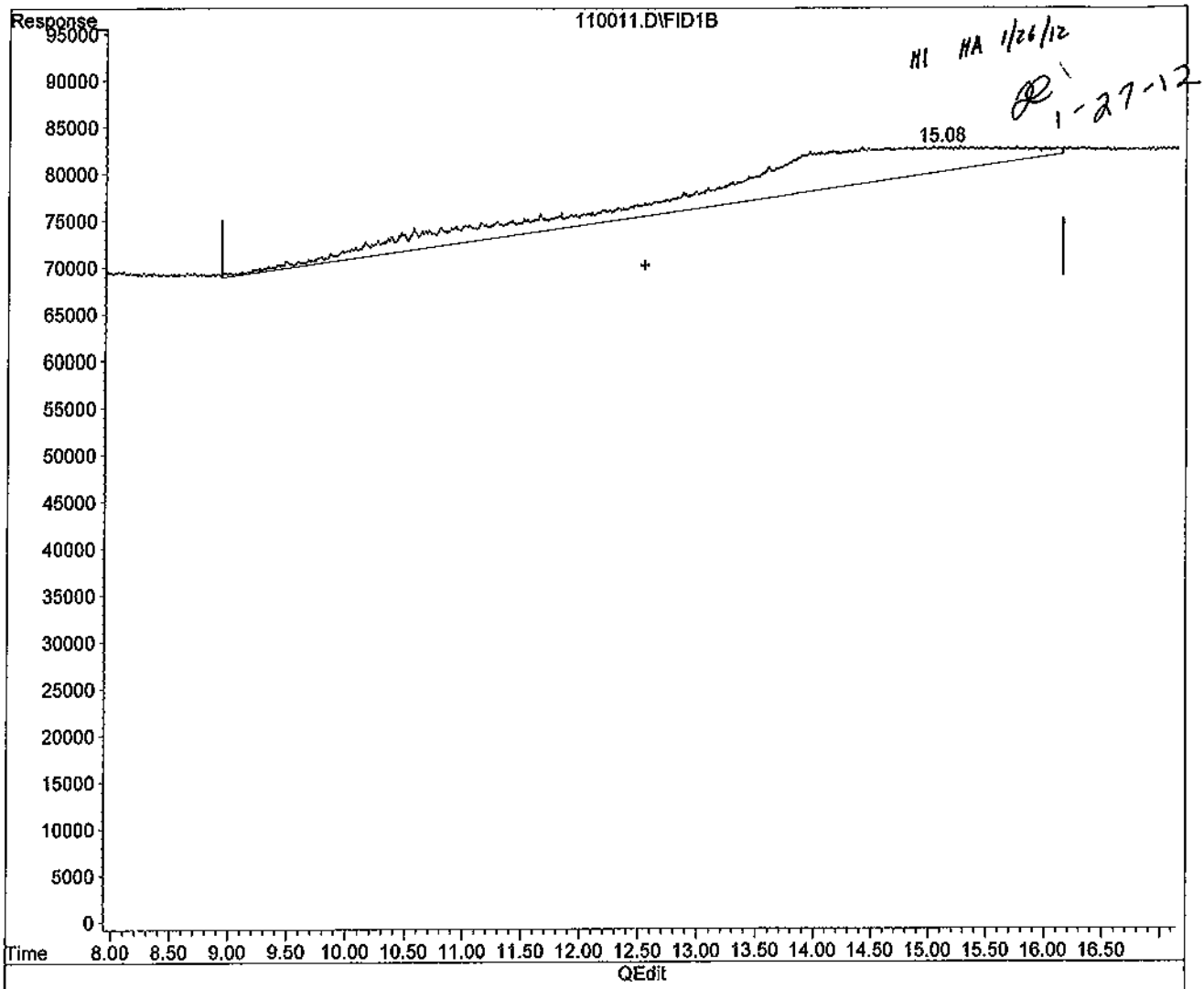
response 19116469

(+) = Expected Retention Time
110011.D TPH110.M Thu Jan 26 09:23:23 2012

Quantitation Report

Data File : G:\APOLLO\DATA\120110\110011.D Vial: 11
Acq On : 1-10-12 19:14:04 Operator: LAC
Sample : MOTOR OIL 50/1000 1/10/12 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:18 2012 Quant Results File: TPH110.RES

Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Jan 24 11:56:18 2012
Response via : Multiple Level Calibration



HI HA 1/26/12
1-27-12

(2) Motor Oil (C18-C36) (HBTM)

12.55min 27.230ppb m

response 7331773

(+) = Expected Retention Time
110011.D TPH110.M Thu Jan 26 09:23:43 2012

Quantitation Report (QT Reviewed)

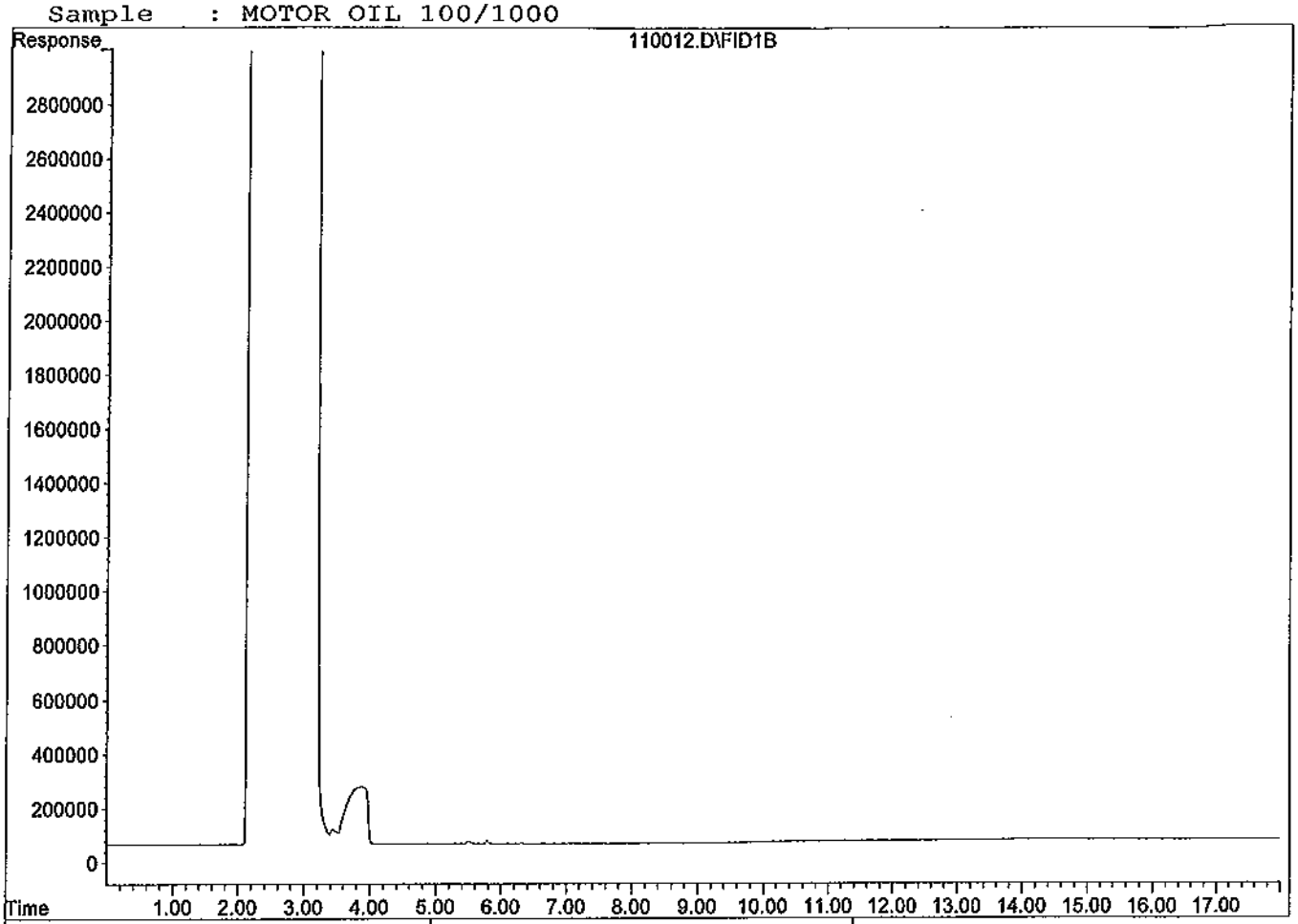
Data File : G:\APOLLO\DATA\120110\110012.D Vial: 12
Acq On : 1-10-12 19:37:39 Operator: LAC
Sample : MOTOR OIL 100/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

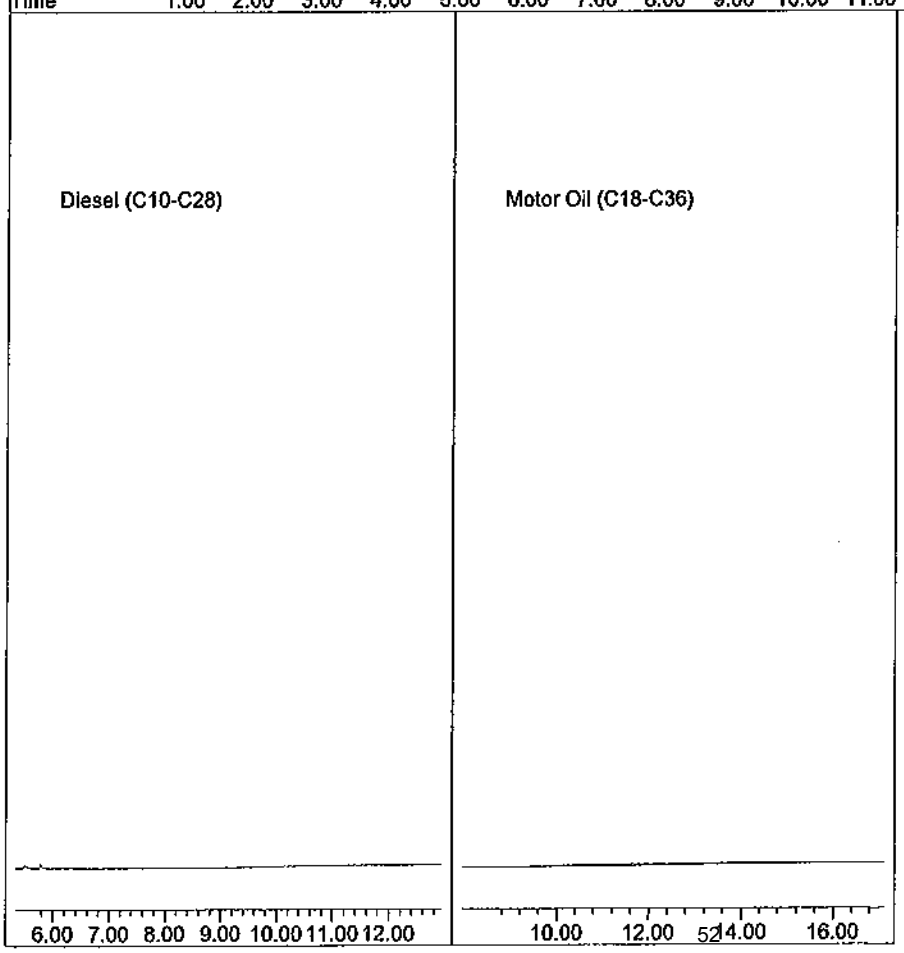
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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)	12.55	13296323	61.376 ppb

Data File: G:\APOLLO\DATA\120110\110012.D
Sample : MOTOR OIL 100/1000

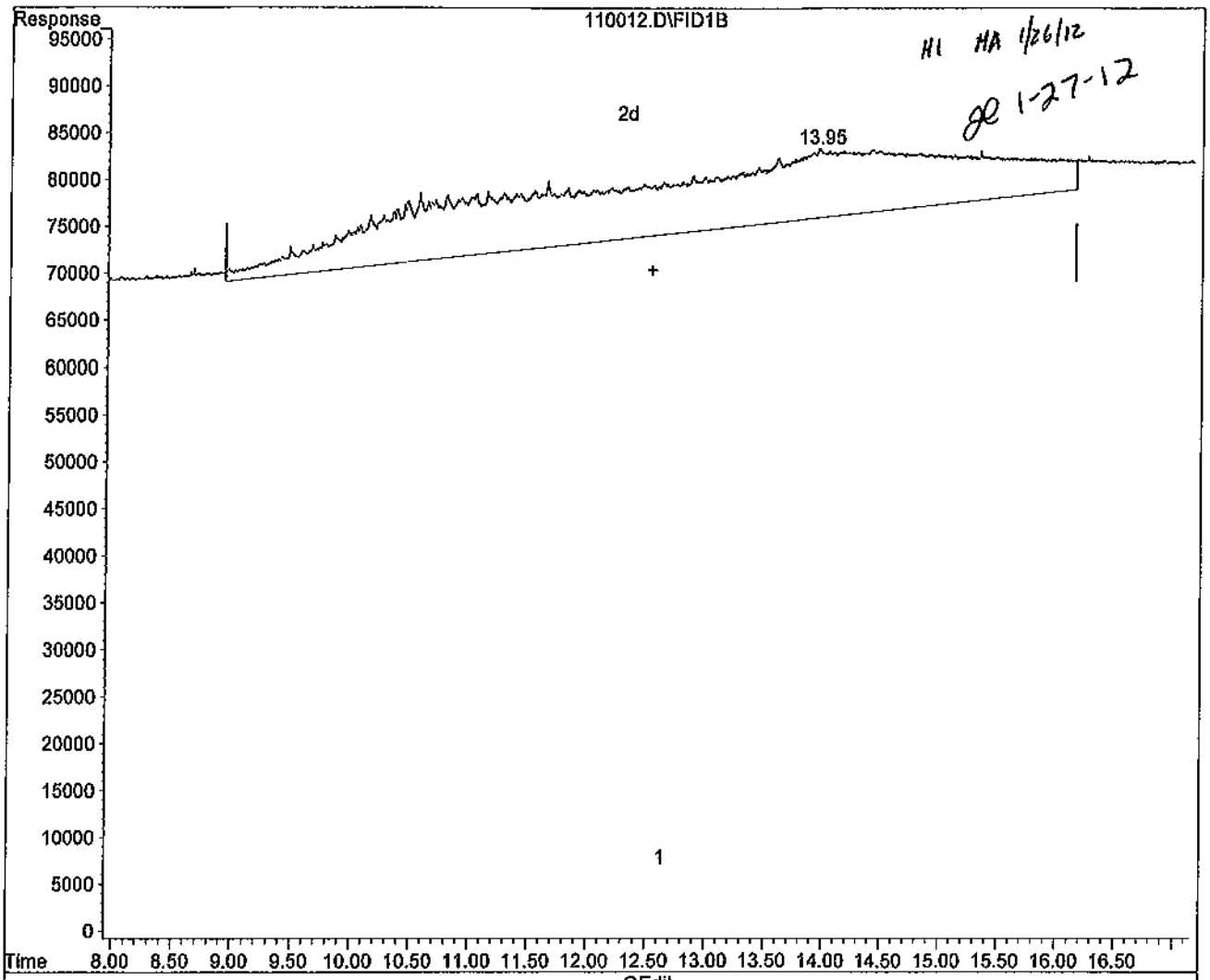




Quantitation Report

Data File : G:\APOLLO\DATA\120110\110012.D Vial: 12
Acq On : 1-10-12 19:37:39 Operator: LAC
Sample : MOTOR OIL 100/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:18 2012 Quant Results File: TPH110.RES

Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Jan 24 11:56:18 2012
Response via : Multiple Level Calibration



HI HA 1/26/12
JR 1-27-12

QEdit

(2) Motor Oil (C18-C36) (HBTM)

12.55min 105.118ppb m

response 20937119

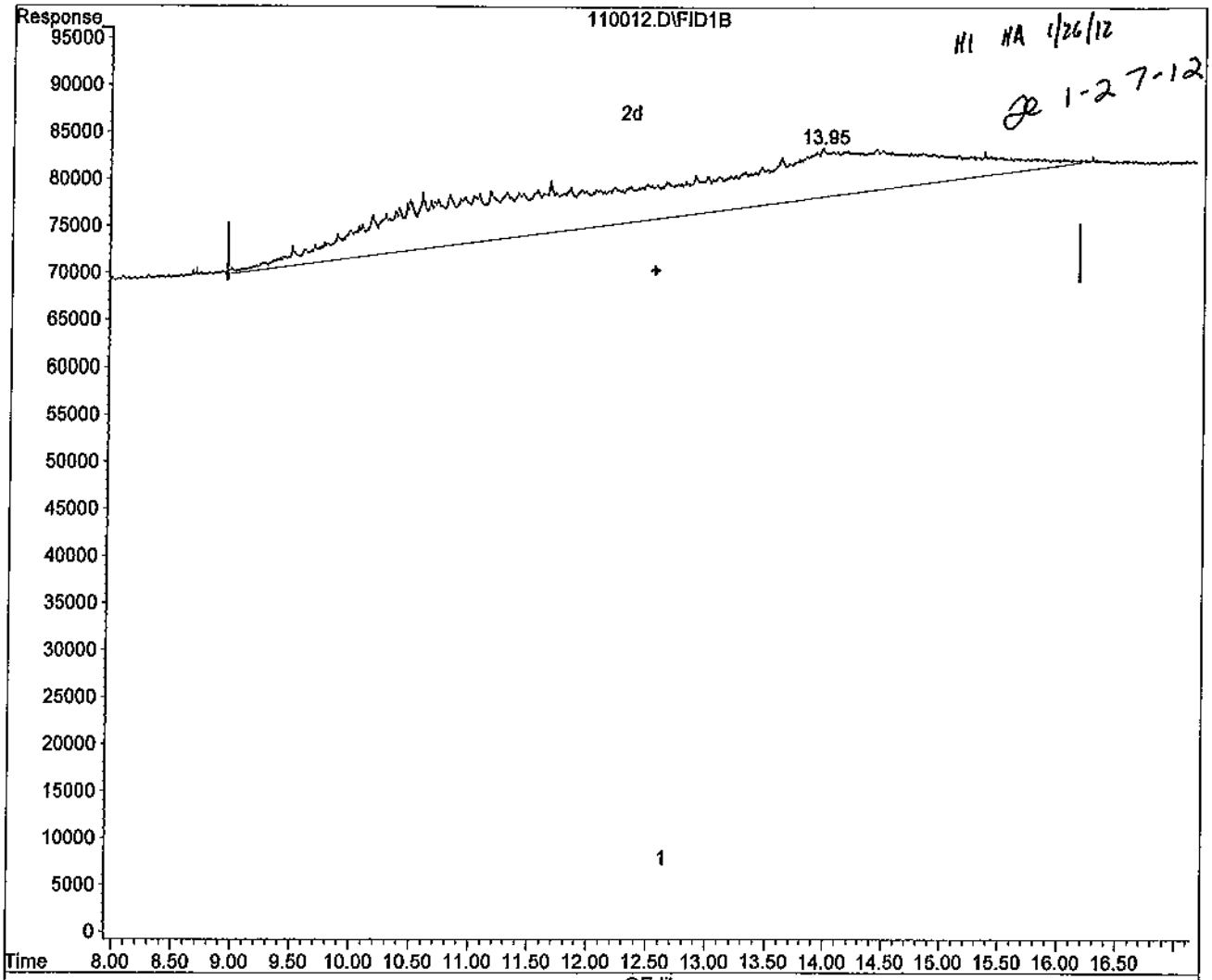
(+) = Expected Retention Time
110012.D TPH110.M Thu Jan 26 09:23:57 2012

Quantitation Report

Data File : G:\APOLLO\DATA\120110\110012.D
Acq On : 1-10-12 19:37:39
Sample : MOTOR OIL 100/1000
Misc : Mix(B)
IntFile : events.e
Quant Time: Jan 26 9:18 2012 Quant Results File: TPH110.RES

Vial: 12
Operator: LAC
Inst : Apollo
Multiplr: 1.00

Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Jan 24 11:56:18 2012
Response via : Multiple Level Calibration



(2) Motor Oil (C18-C36) (HBTM)

12.55min 61.376ppb m

response 13296323

(+) = Expected Retention Time
110012.D TPH110.M Thu Jan 26 09:24:08 2012

Quantitation Report (Not Reviewed)

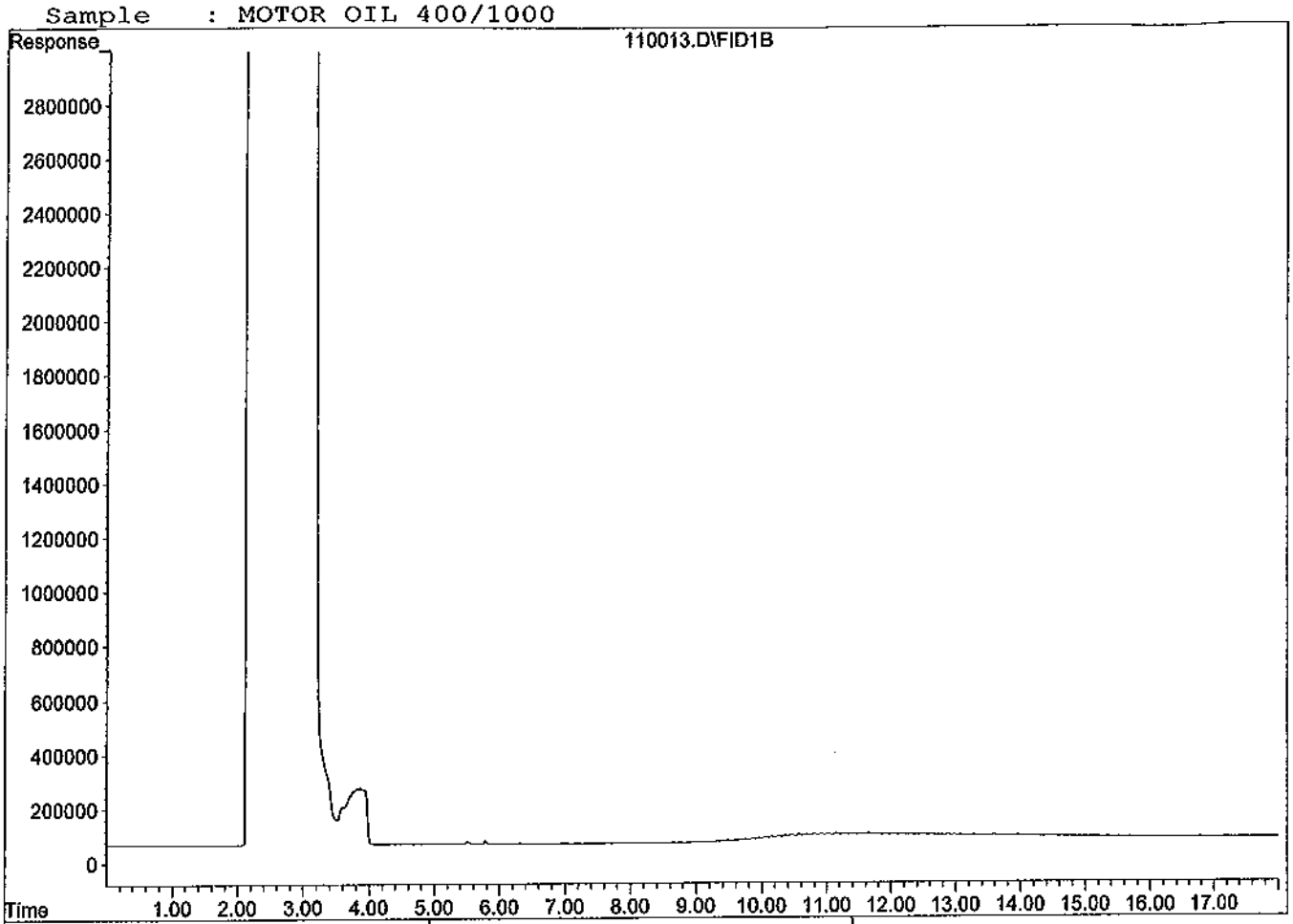
Data File : G:\APOLLO\DATA\120110\110013.D Vial: 13
Acq On : 1-10-12 20:01:12 Operator: LAC
Sample : MOTOR OIL 400/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

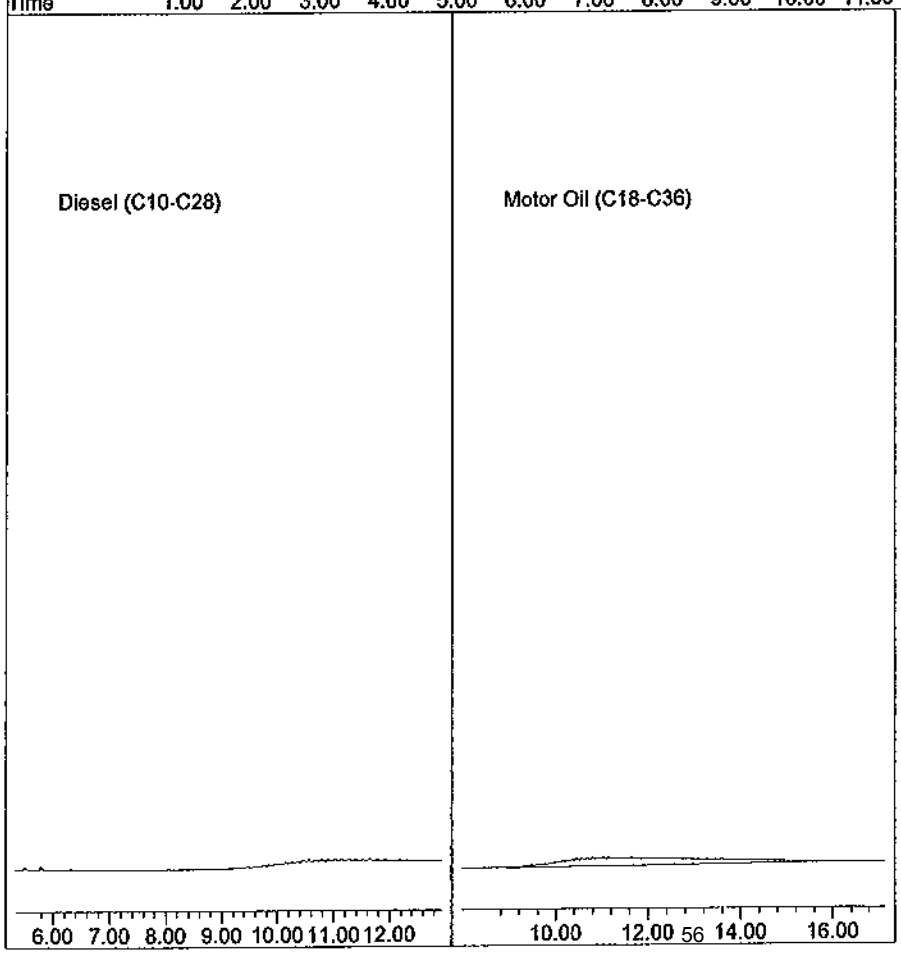
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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)	12.55	62686085	344.123 ppb

Data File: G:\APOLLO\DATA\120110\110013.D
Sample : MOTOR OIL 400/1000





Quantitation Report (Not Reviewed)

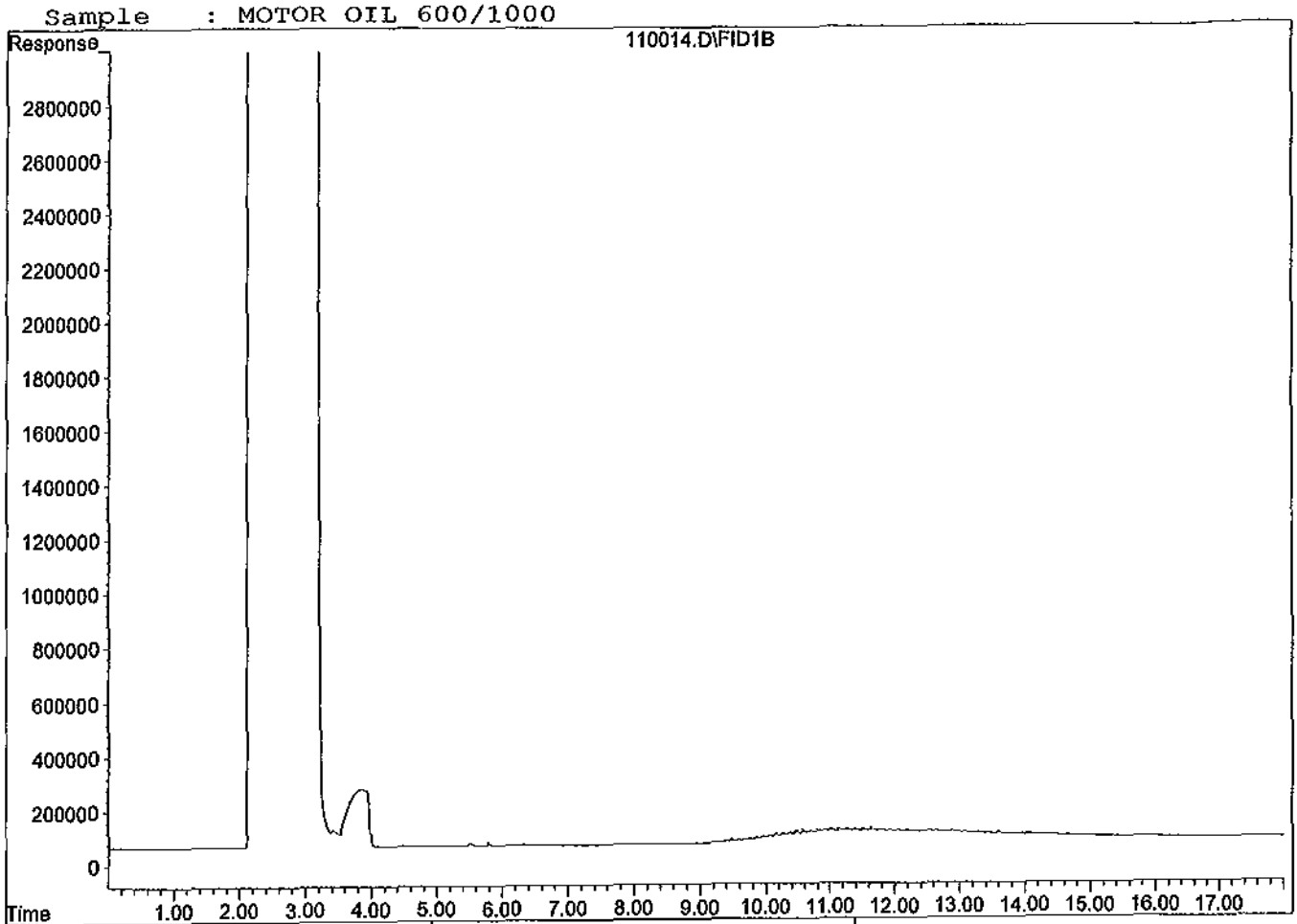
Data File : G:\APOLLO\DATA\120110\110014.D Vial: 14
Acq On : 1-10-12 20:24:46 Operator: LAC
Sample : MOTOR OIL 600/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

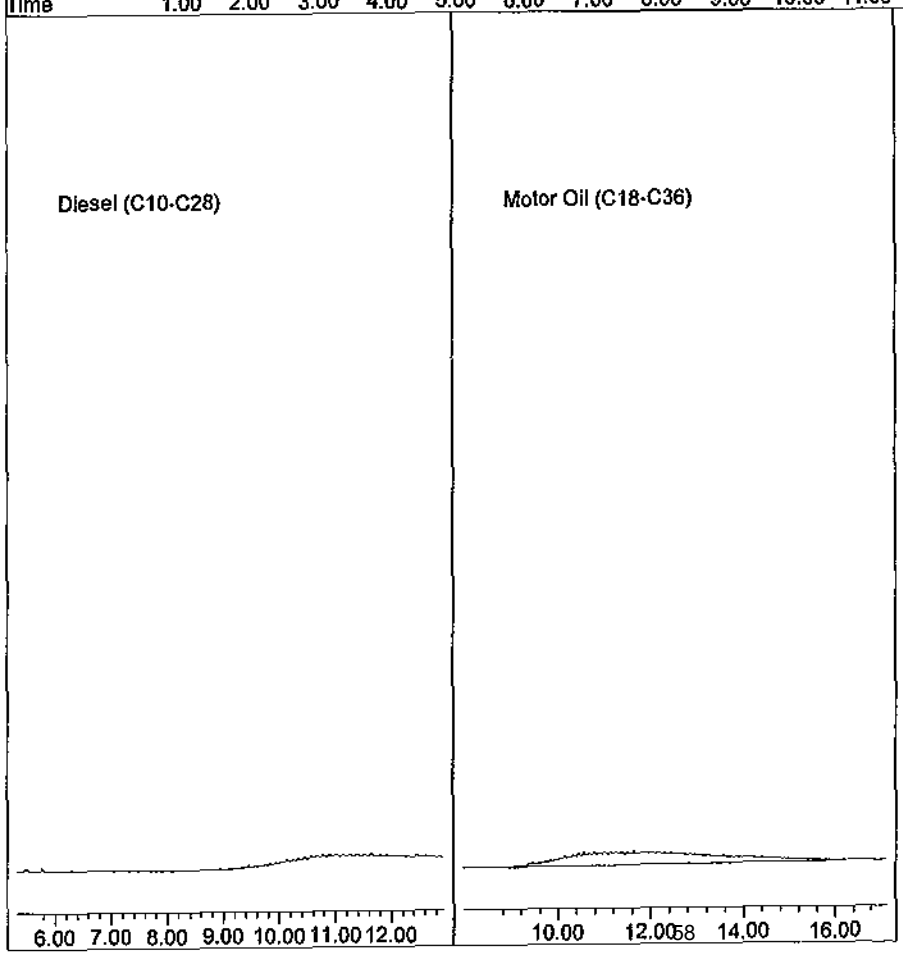
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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)	12.55	102046780	569.455 ppb

Data File: G:\APOLLO\DATA\120110\110014.D
Sample : MOTOR OIL 600/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120110\110015.D Vial: 15
Acq On : 1-10-12 20:48:17 Operator: LAC
Sample : MOTOR OIL 800/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

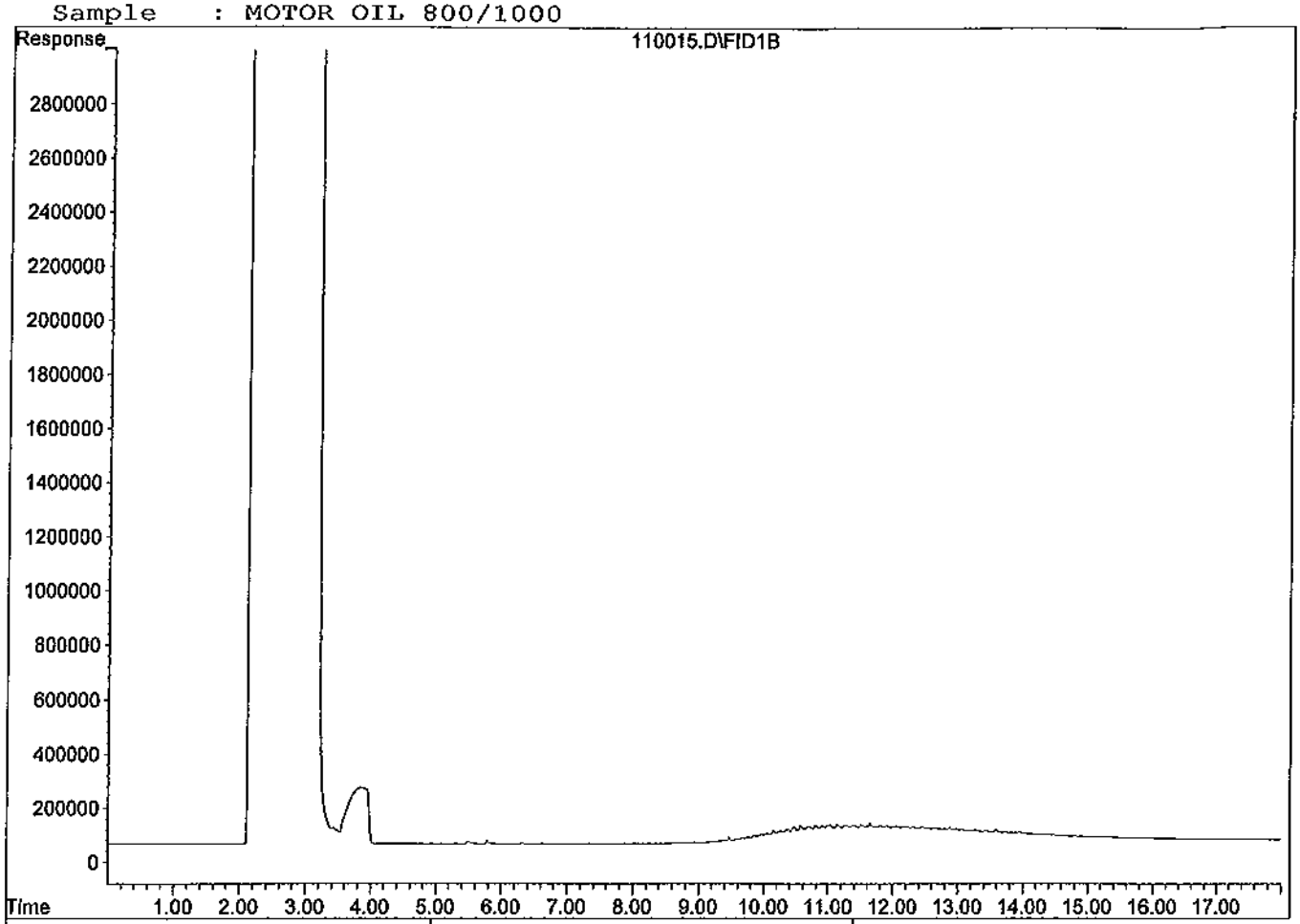
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

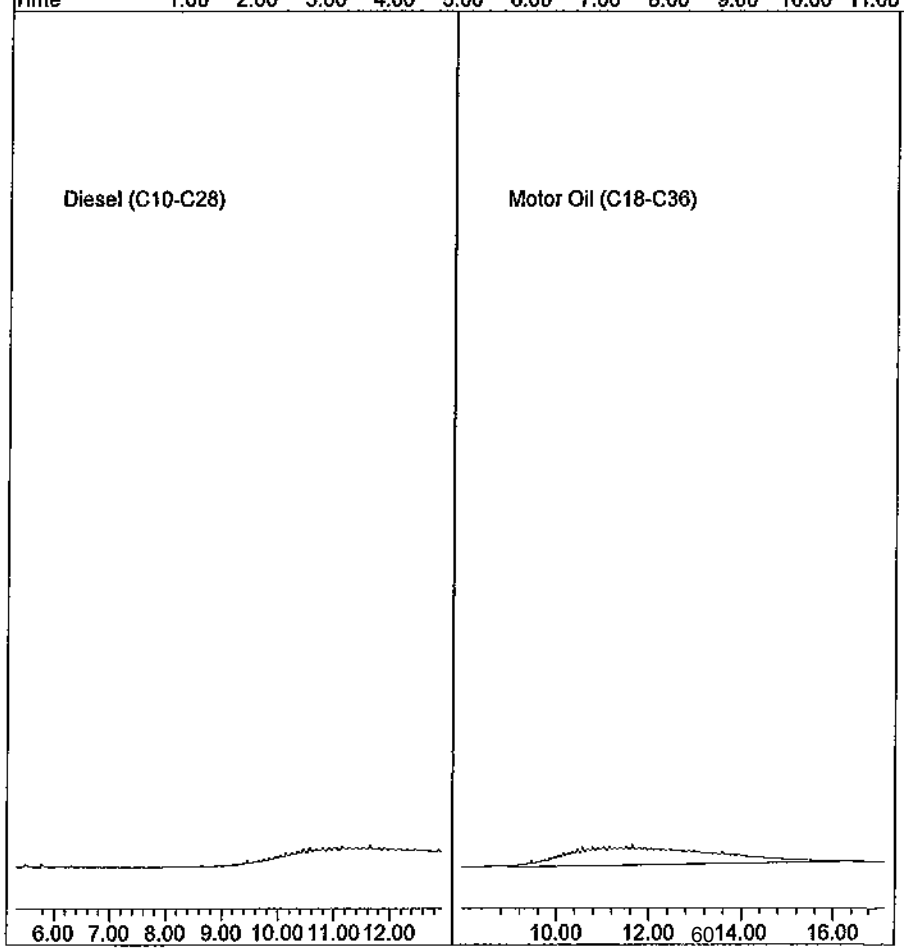
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.55	141208740	793.650 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\120110\110015.D
Sample : MOTOR OIL 800/1000





Quantitation Report (Not Reviewed)

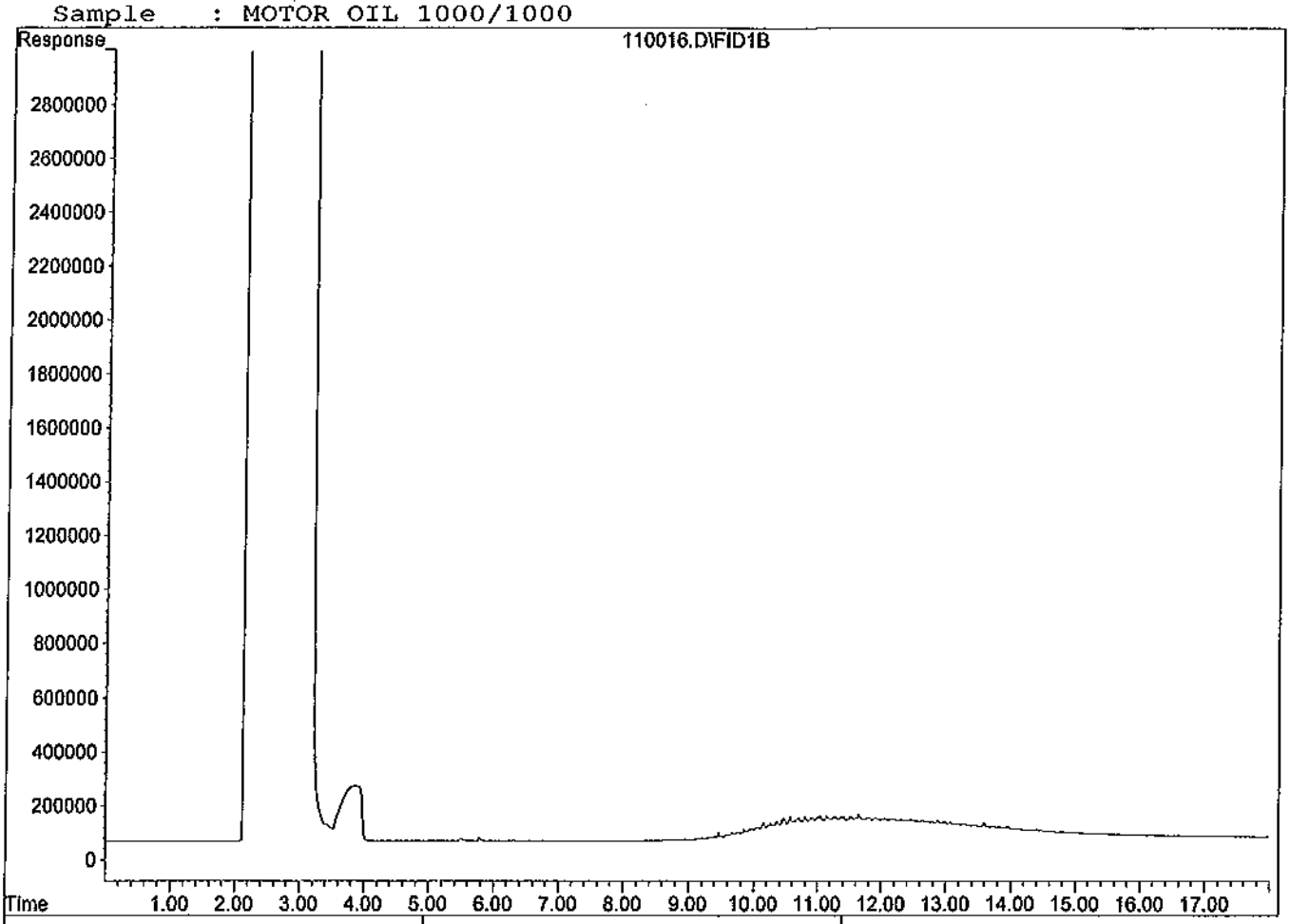
Data File : G:\APOLLO\DATA\120110\110016.D Vial: 16
Acq On : 1-10-12 21:11:50 Operator: LAC
Sample : MOTOR OIL 1000/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

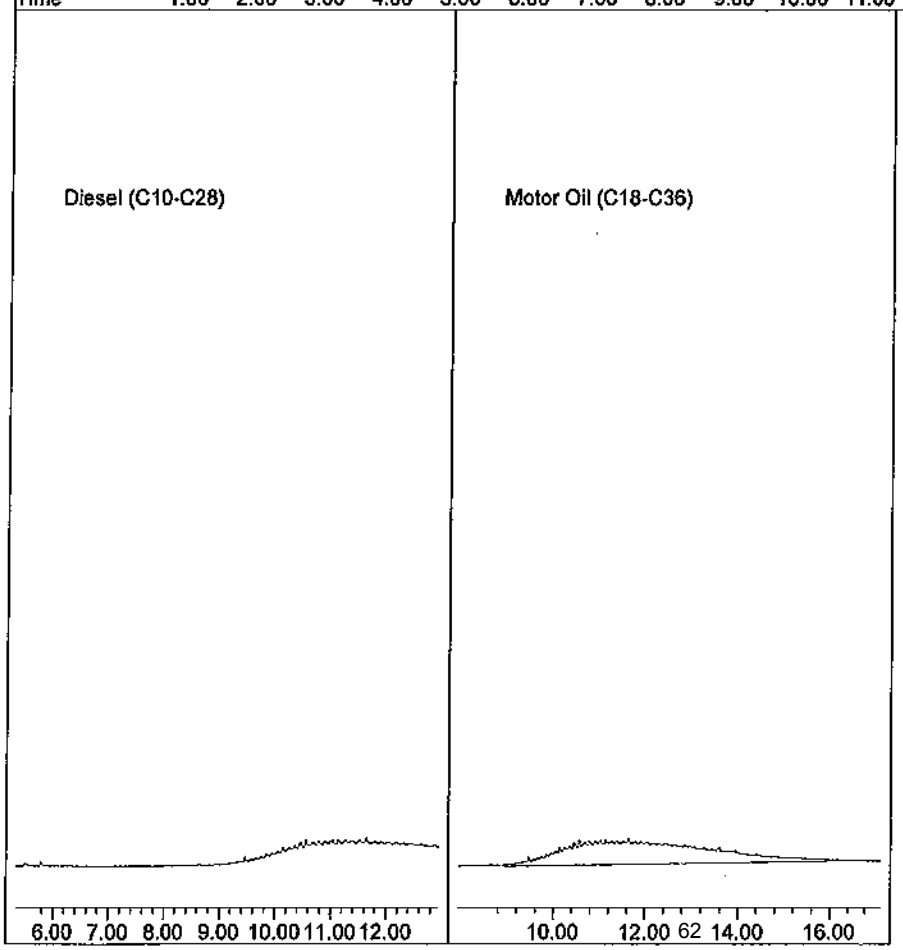
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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)	12.55	184767578	1043.016	ppb

Data File: G:\APOLLO\DATA\120110\110016.D
Sample : MOTOR OIL 1000/1000





TPH Extractables
TPH110

Form 7

Second Source Calibration

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

SDG No:
Date Analyzed: 01/10/12
Instrument: Apollo
Initial Cal. Date: 01/10/12
Data File: 110017.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	202470	176945	13	HATML	3.2
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			13.0		

Quantitation Report (Not Reviewed)

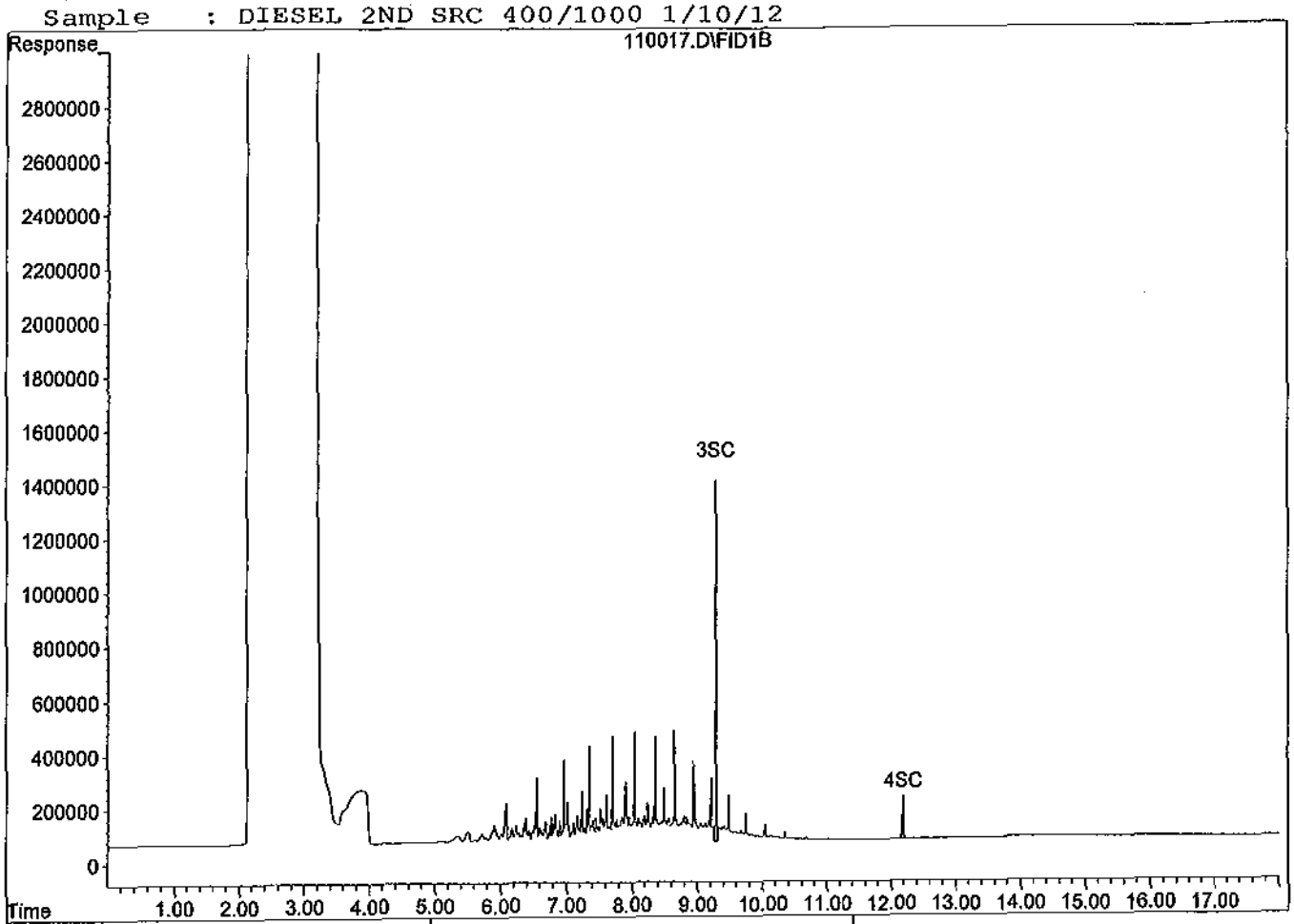
Data File : G:\APOLLO\DATA\120110\110017.D Vial: 17
Acq On : 1-10-12 21:35:15 Operator: LAC
Sample : DIESEL 2ND SRC 400/1000 1/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:31 2012 Quant Results File: TPH110.RES

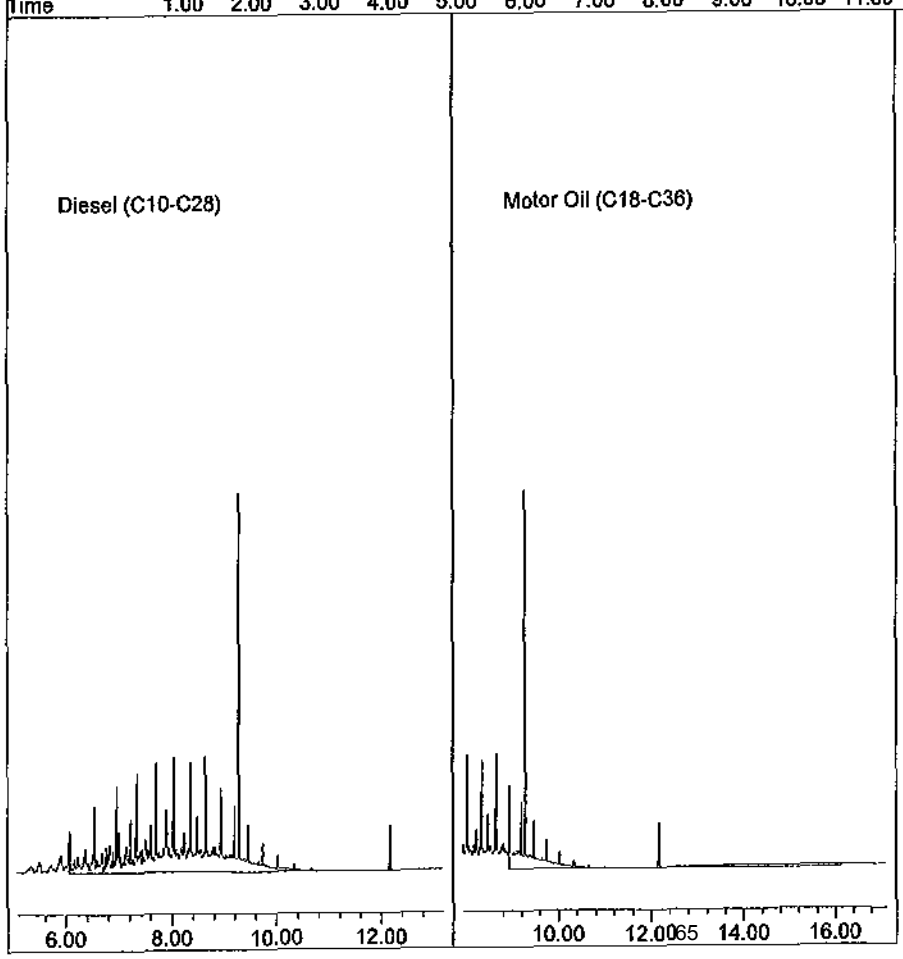
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.28	9415492	21.366 ppb
Surrogate Spike 30.000		Recovery =	71.22%
4) SC Octacosane(S)	12.18	2016343	17.621 ppb
Surrogate Spike 30.000		Recovery =	58.74%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	141555900	387.366 ppb
2) HBTM Motor Oil (C18-C36)	12.55	42974965	266.464 ppb

Data File: G:\APOLLO\DATA\120110\110017.D
Sample : DIESEL 2ND SRC 400/1000 1/10/12





Quantitation Report (Not Reviewed)

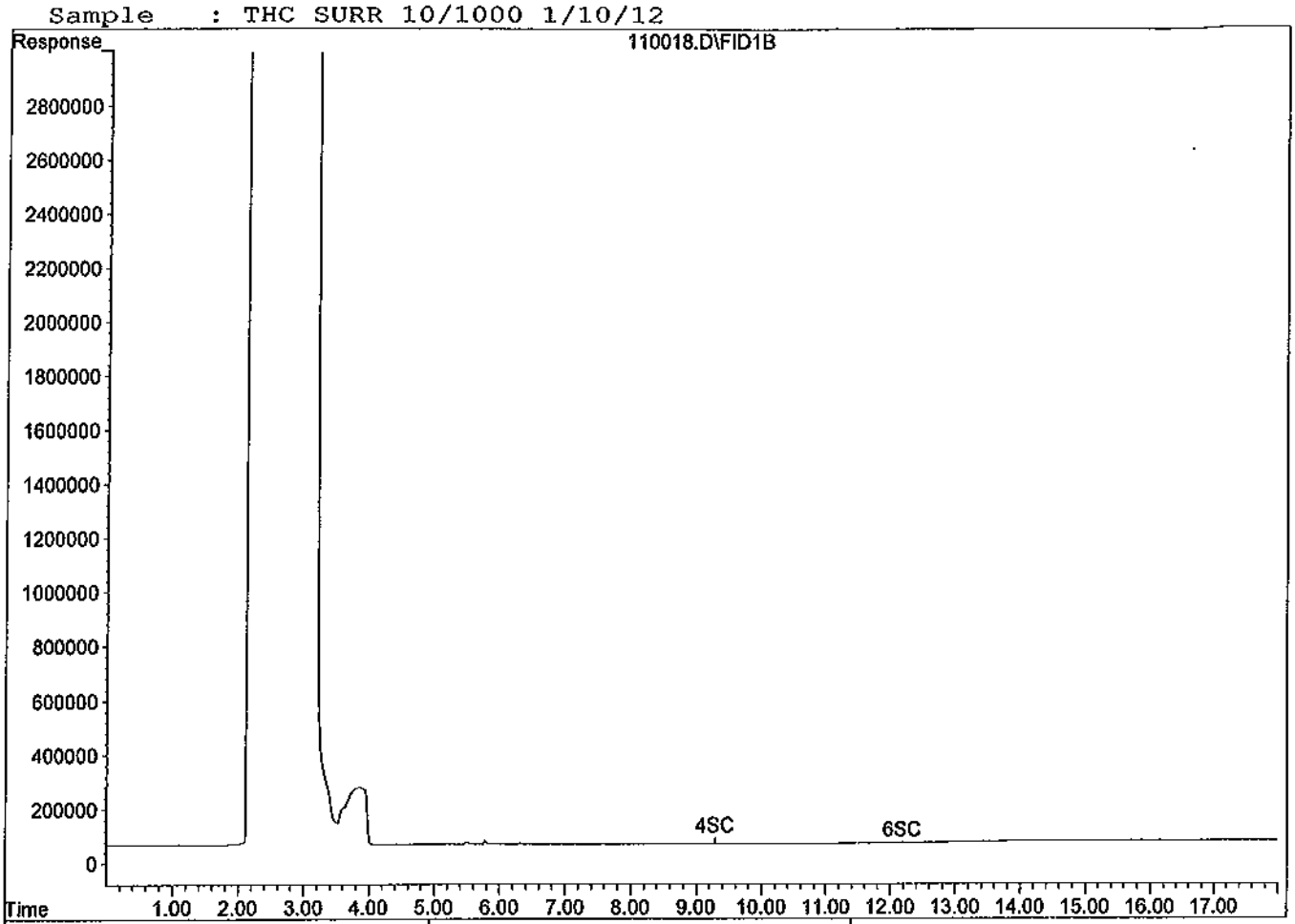
Data File : G:\APOLLO\DATA\120110\110018.D Vial: 18
Acq On : 1-10-12 21:58:40 Operator: LAC
Sample : THC SURR 10/1000 1/10/12 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

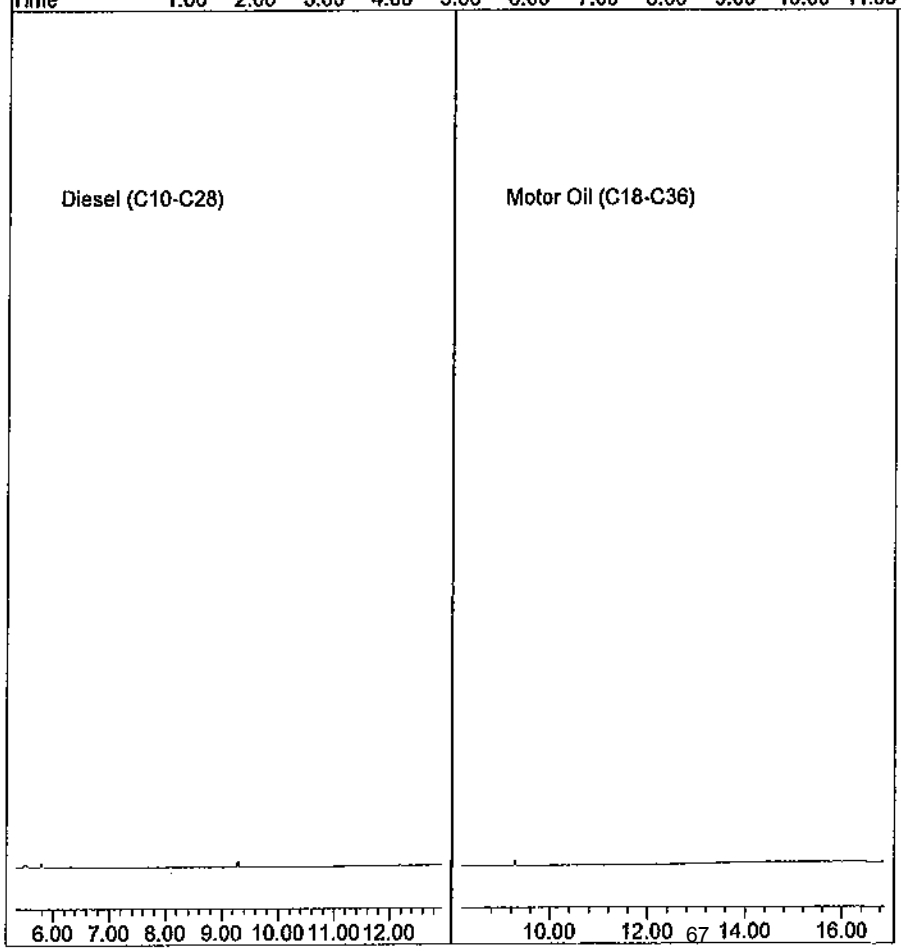
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.28	190742	0.433 ppb
Surrogate Spike 30.000	Recovery	=	1.44%
6) SC Octacosane(S)	12.19	15939	0.158 ppb
Surrogate Spike 30.000	Recovery	=	0.53%
Target Compounds			

Data File: G:\APOLLO\DATA\120110\110018.D
Sample : THC SURR 10/1000 1/10/12





Quantitation Report (Not Reviewed)

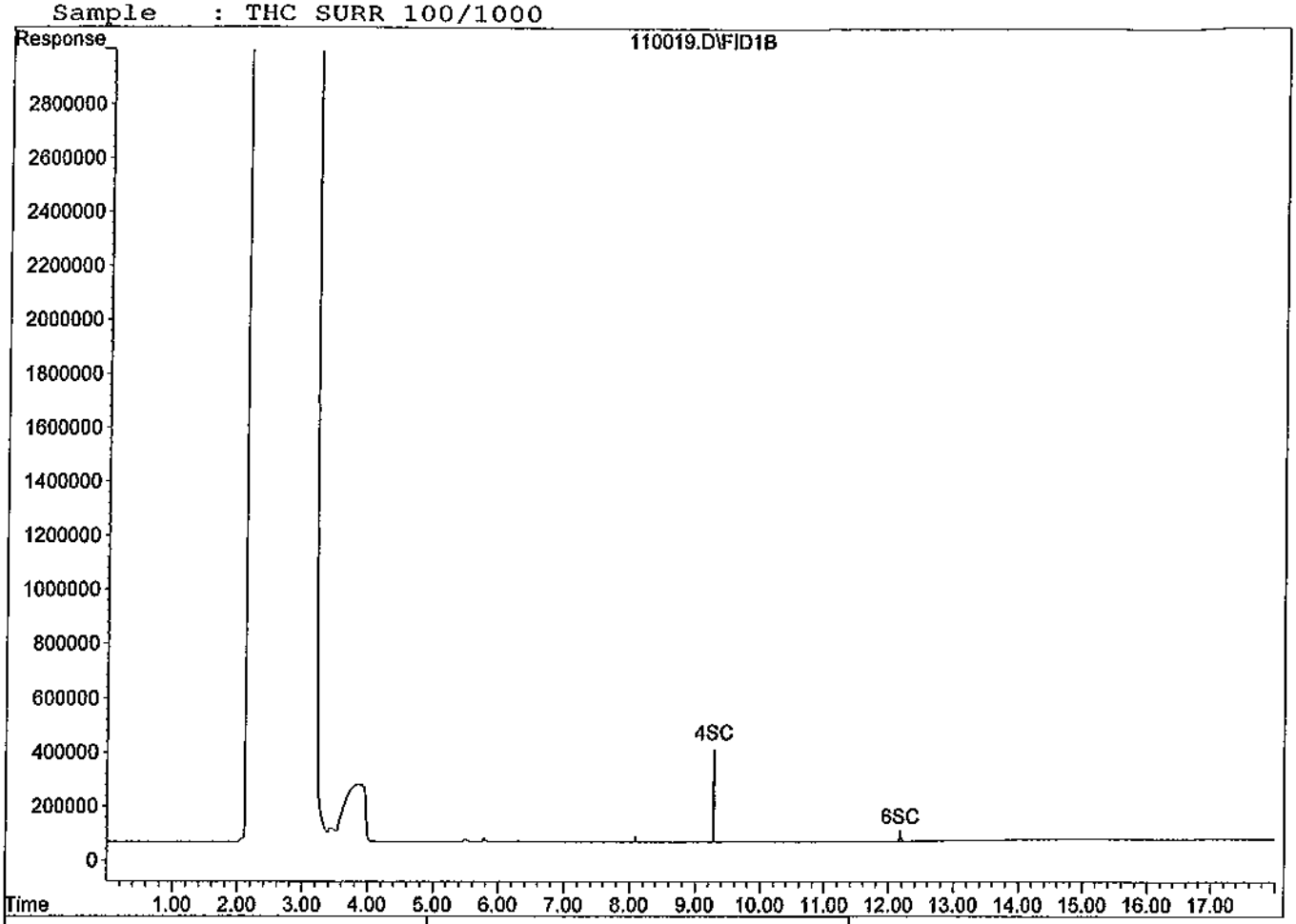
Data File : G:\APOLLO\DATA\120110\110019.D Vial: 19
Acq On : 1-10-12 22:22:01 Operator: LAC
Sample : THC SURR 100/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

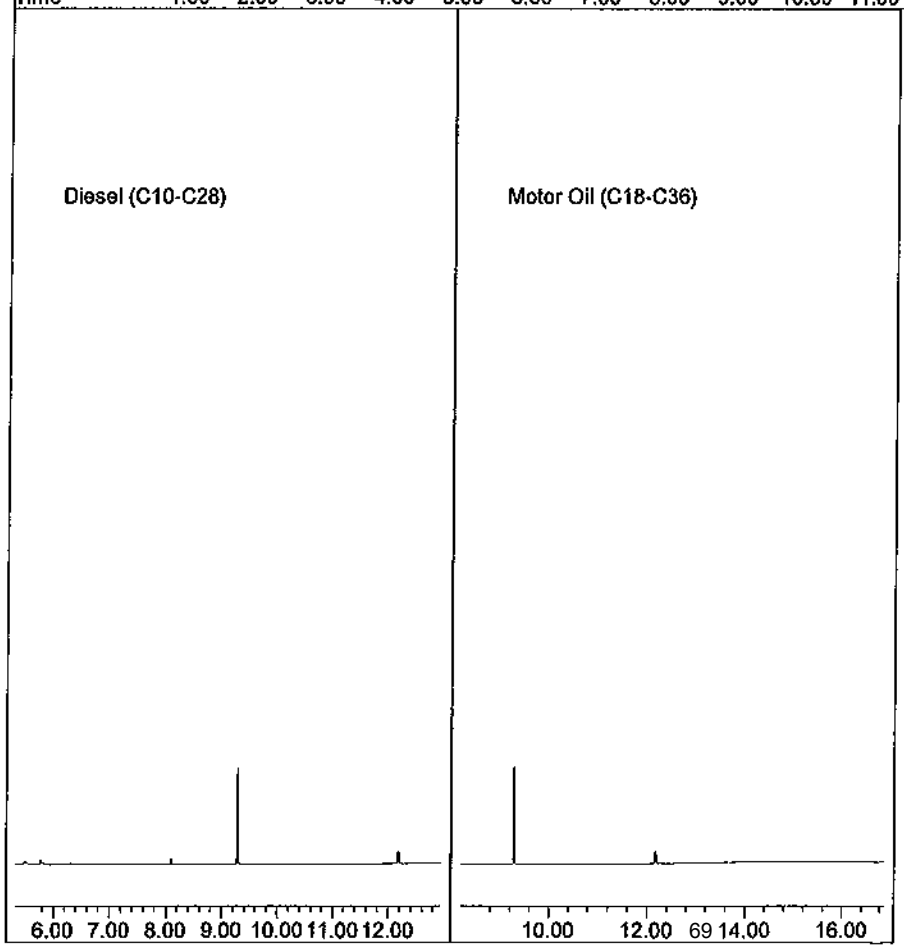
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.28	2375684	5.391	ppb
Surrogate Spike 30.000	Recovery =		17.97%	
6) SC Octacosane(S)	12.18	576394	5.726	ppb
Surrogate Spike 30.000	Recovery =		19.09%	
Target Compounds				

Data File: G:\APOLLO\DATA\120110\110019.D
Sample : THC SURR 100/1000





Quantitation Report (Not Reviewed)

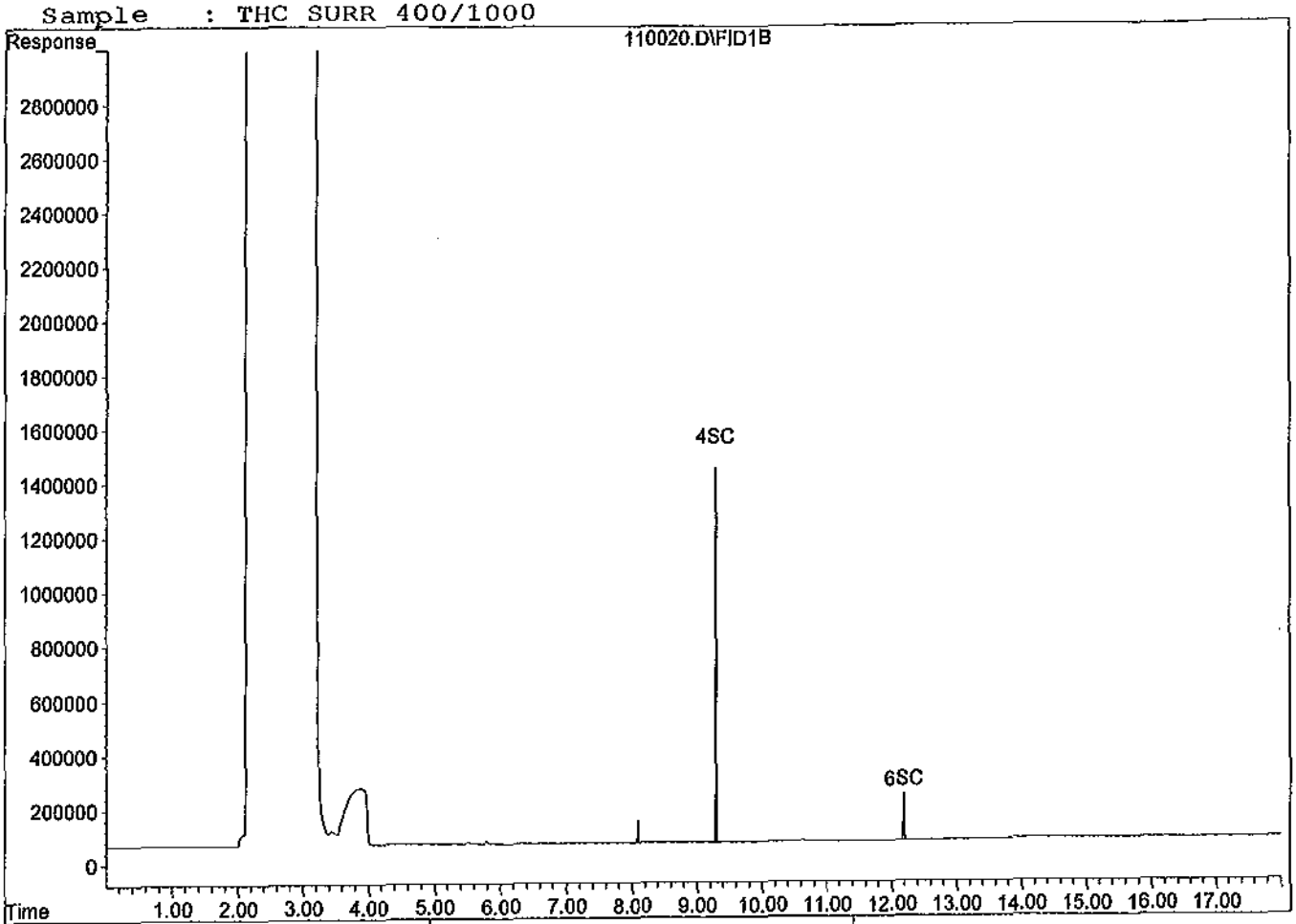
Data File : G:\APOLLO\DATA\120110\110020.D Vial: 20
Acq On : 1-10-12 22:45:24 Operator: LAC
Sample : THC SURR 400/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

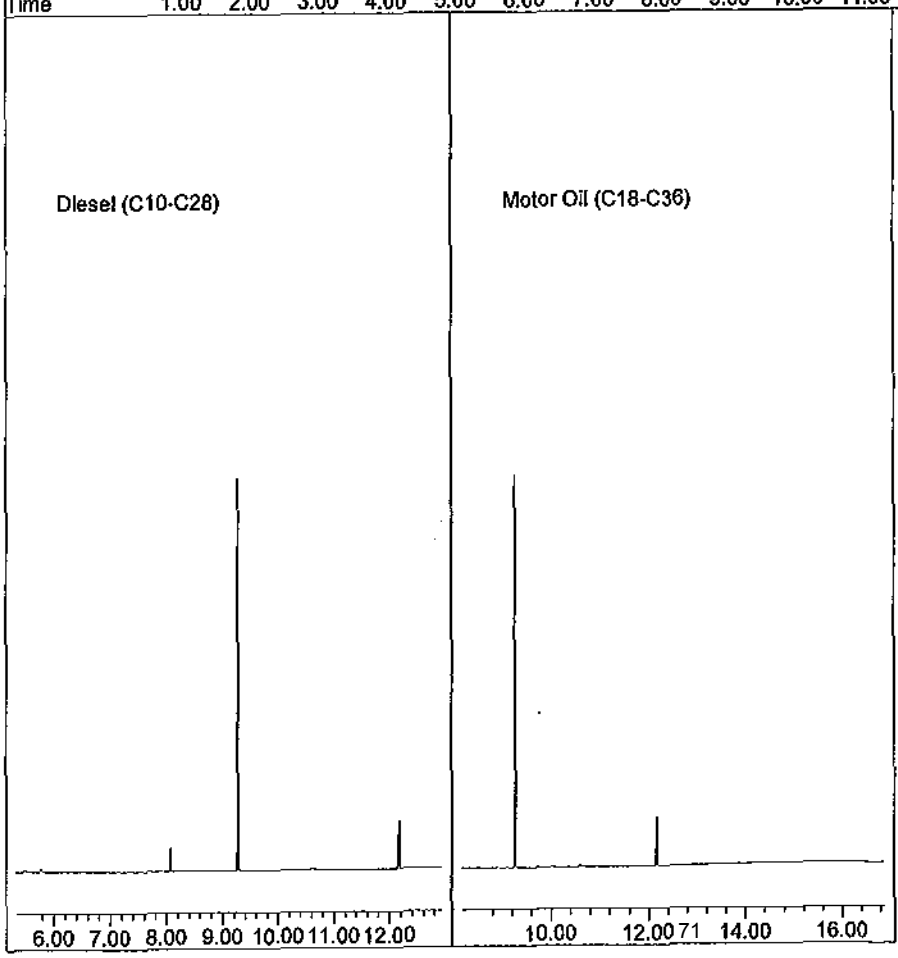
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.28	8815617	20.004	ppb
Surrogate Spike 30.000	Recovery =		66.68%	
6) SC Octacosane(S)	12.18	2243696	22.288	ppb
Surrogate Spike 30.000	Recovery =		74.29%	
Target Compounds				

Data File: G:\APOLLO\DATA\120110\110020.D
Sample : THC SURR 400/1000





Quantitation Report (Not Reviewed)

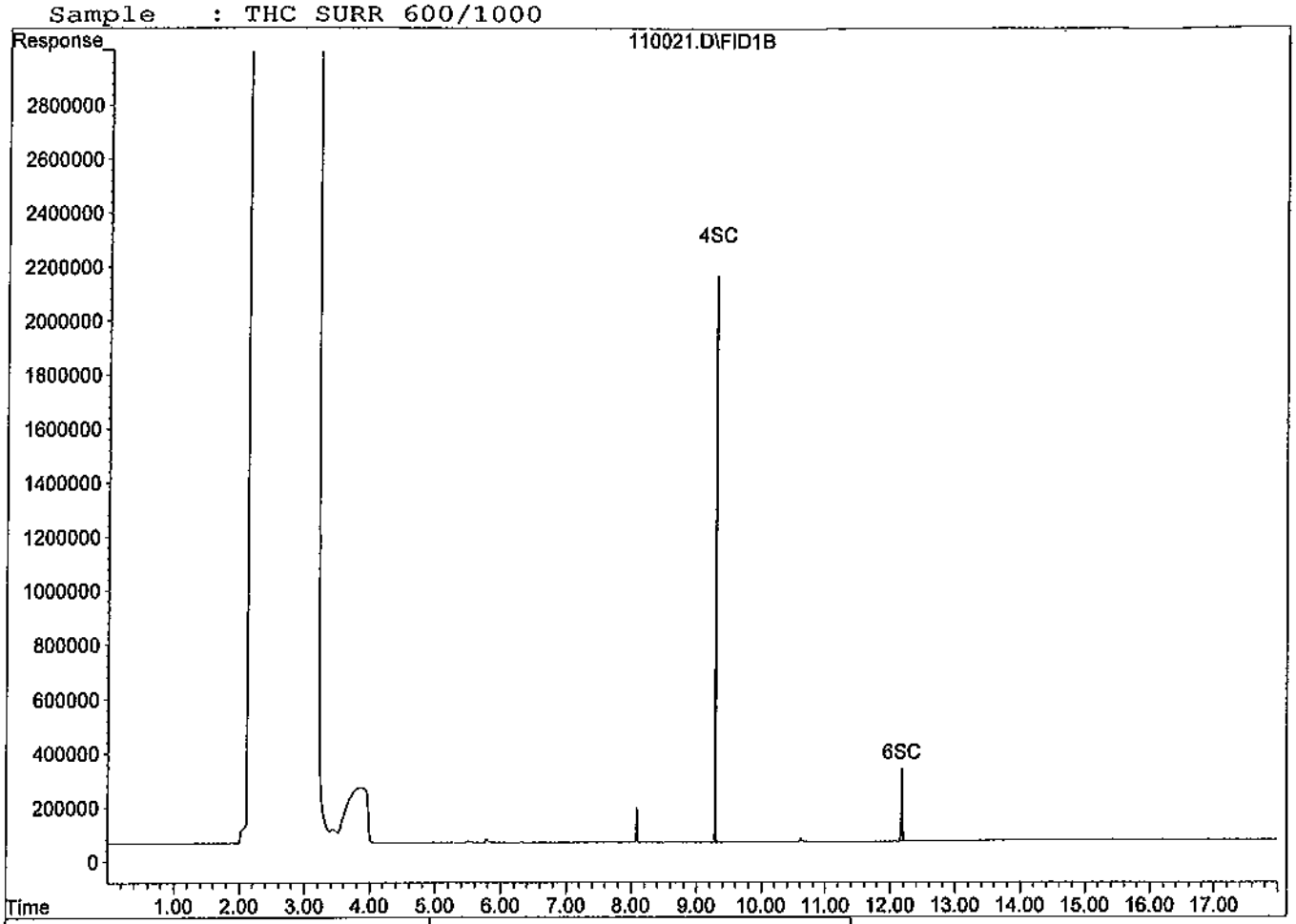
Data File : G:\APOLLO\DATA\120110\110021.D Vial: 21
Acq On : 1-10-12 23:08:42 Operator: LAC
Sample : THC SURR 600/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

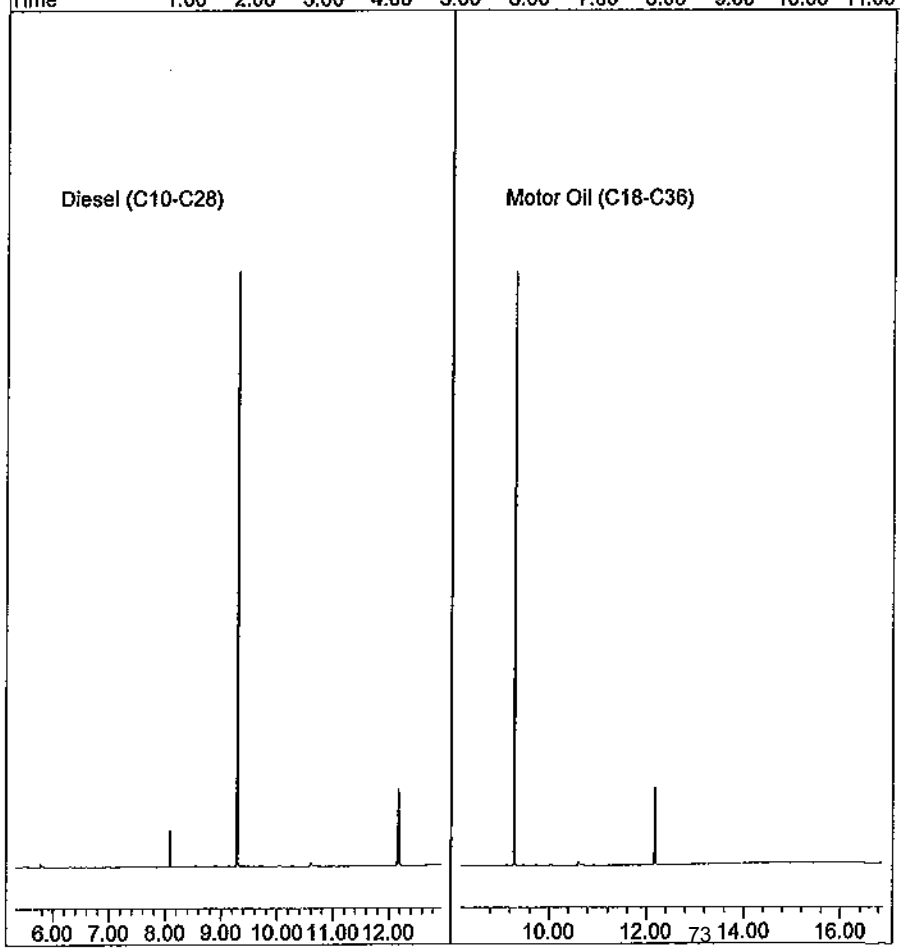
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.28	13462582	30.549	ppb
Surrogate Spike 30.000	Recovery =		101.83%	
6) SC Octacosane(S)	12.18	3390923	33.684	ppb
Surrogate Spike 30.000	Recovery =		112.28%	
Target Compounds				

Data File: G:\APOLLO\DATA\120110\110021.D
Sample : THC SURR 600/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120110\110022.D Vial: 22
Acq On : 1-10-12 23:32:00 Operator: LAC
Sample : THC SURR 800/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

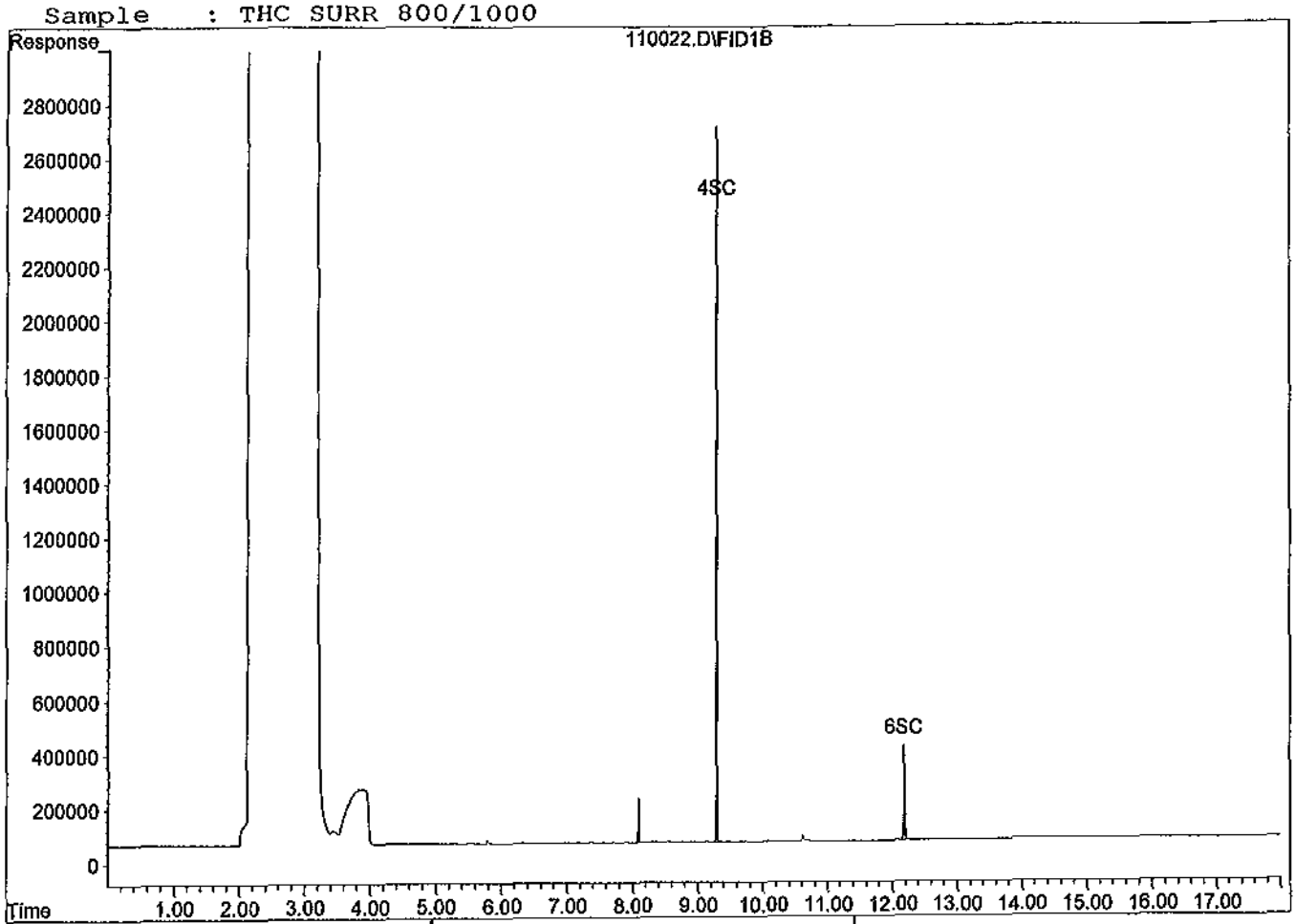
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

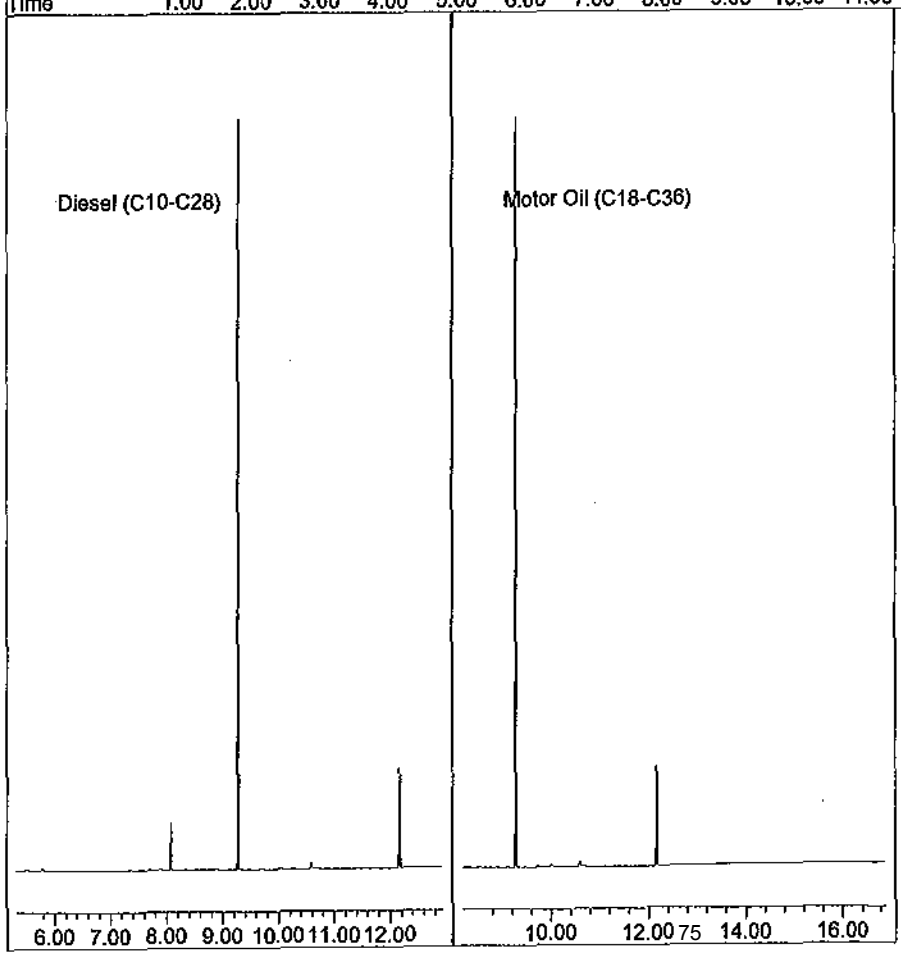
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.28	17618806	39.981	ppb
Surrogate Spike 30.000		Recovery =	133.27%	
6) SC Octacosane(S)	12.18	4532852	45.028	ppb
Surrogate Spike 30.000		Recovery =	150.09%	
Target Compounds				

(f)=RT Delta > 1/2 Window (m)=manual int.
110022.D TPH110.M Thu Jan 26 09:35:05 2012 Page 1

Data File: G:\APOLLO\DATA\120110\110022.D
Sample : THC SURR 800/1000





Quantitation Report (Not Reviewed)

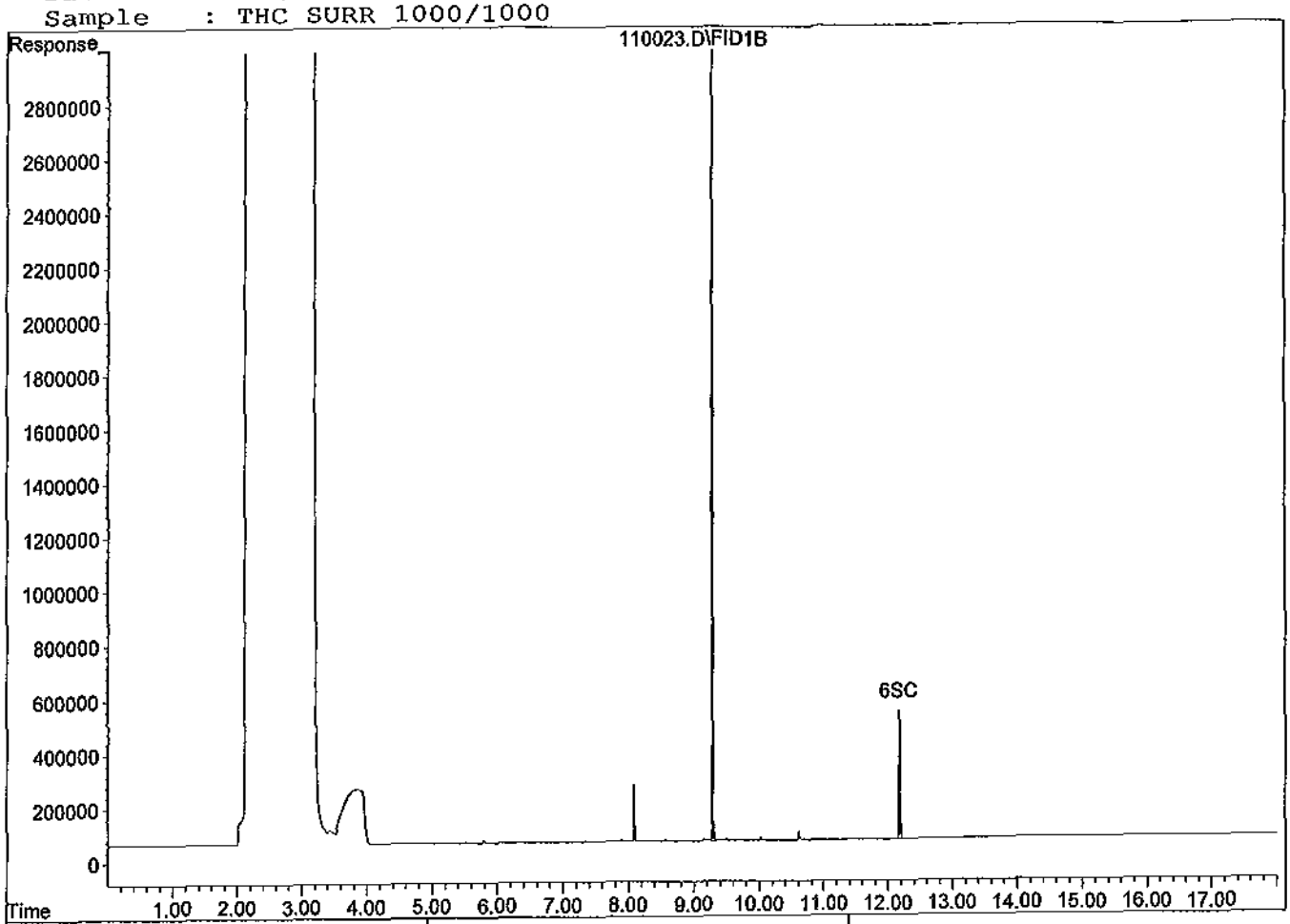
Data File : G:\APOLLO\DATA\120110\110023.D Vial: 23
Acq On : 1-10-12 23:55:18 Operator: LAC
Sample : THC SURR 1000/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

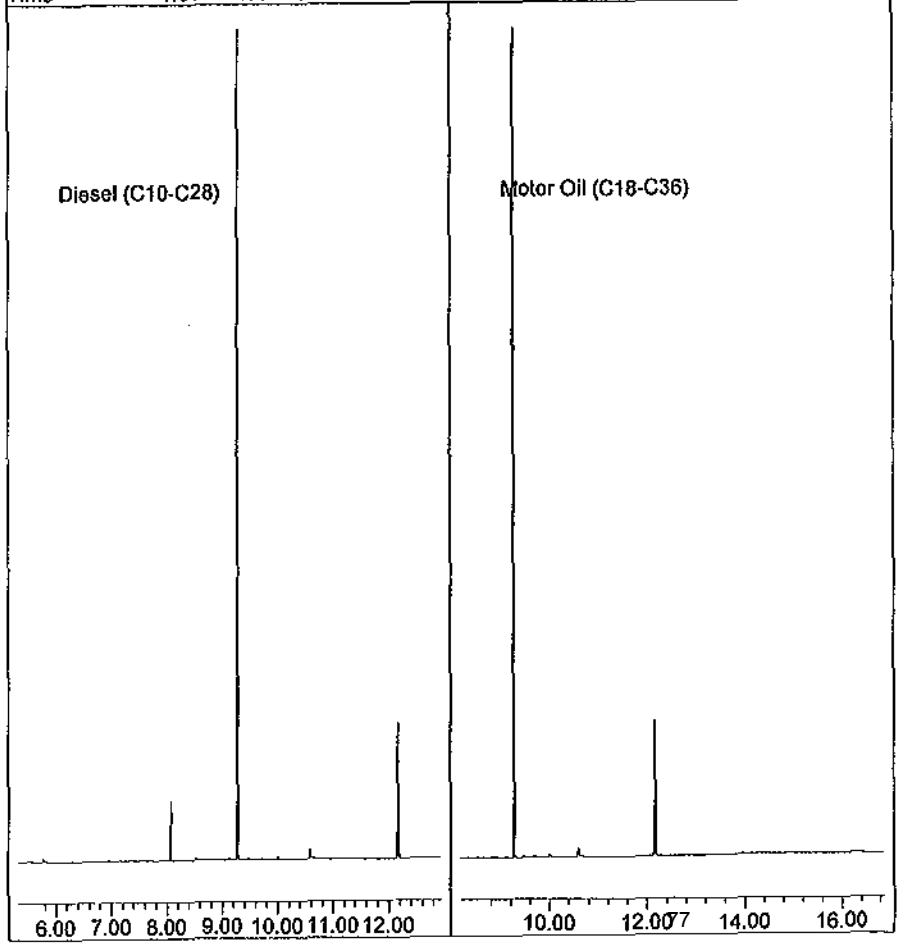
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.28	22873430	51.905	ppb
Surrogate Spike 30.000		Recovery =	173.02%	
6) SC Octacosane(S)	12.18	5915647	58.764	ppb
Surrogate Spike 30.000		Recovery =	195.88%	
Target Compounds				

Data File: G:\APOLLO\DATA\120110\110023.D
Sample : THC SURR 1000/1000





TPH Extractables
TPH110

Form 7

Continuing Calibration

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

SDG No: 66795
Date Analyzed: 01/30/12
Instrument: Apollo
Initial Cal. Date: 01/10/12
Data File: 126026, 027

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	202470	209398	3.4	HATML	15
2	HBTM	Motor Oil (C18-C36)	80639	86474	7.2	HBTM	
3							
4							
5							
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32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			3.4		

Quantitation Report (Not Reviewed)

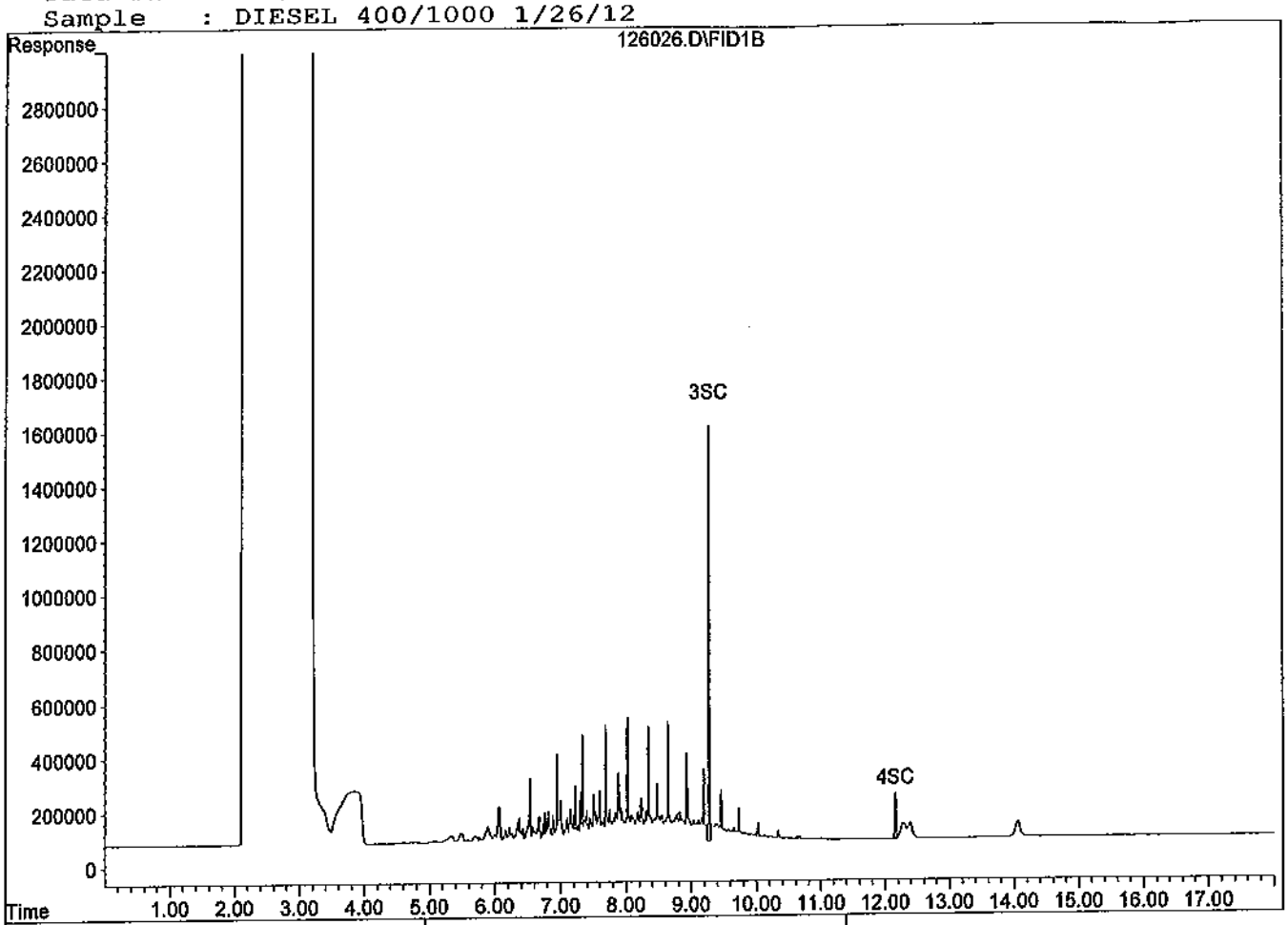
Data File : G:\APOLLO\DATA\120126\126026.D Vial: 26
Acq On : 1-30-12 15:20:23 Operator: LAC
Sample : DIESEL 400/1000 1/26/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 30 17:11 2012 Quant Results File: TPH110.RES

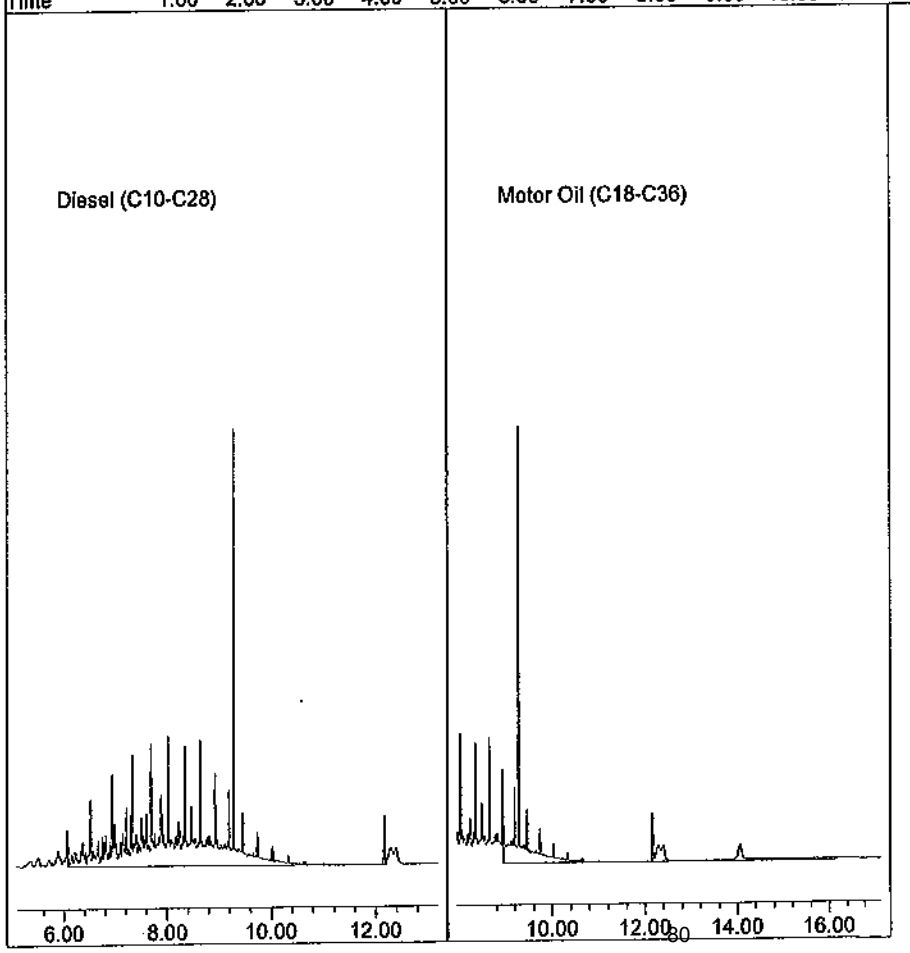
Method : G:\APOLLO\DATA\120126\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	11052516	25.080 ppb
Surrogate Spike 30.000		Recovery =	83.60%
4) SC Octacosane(S)	12.16	2217139	19.376 ppb
Surrogate Spike 30.000		Recovery =	64.59%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	167518672	458.736 ppb
2) HBTM Motor Oil (C18-C36)	12.55	55417256	343.612 ppb

Data File: G:\APOLLO\DATA\120126\126026.D
Sample : DIESEL 400/1000 1/26/12





Quantitation Report (Not Reviewed)

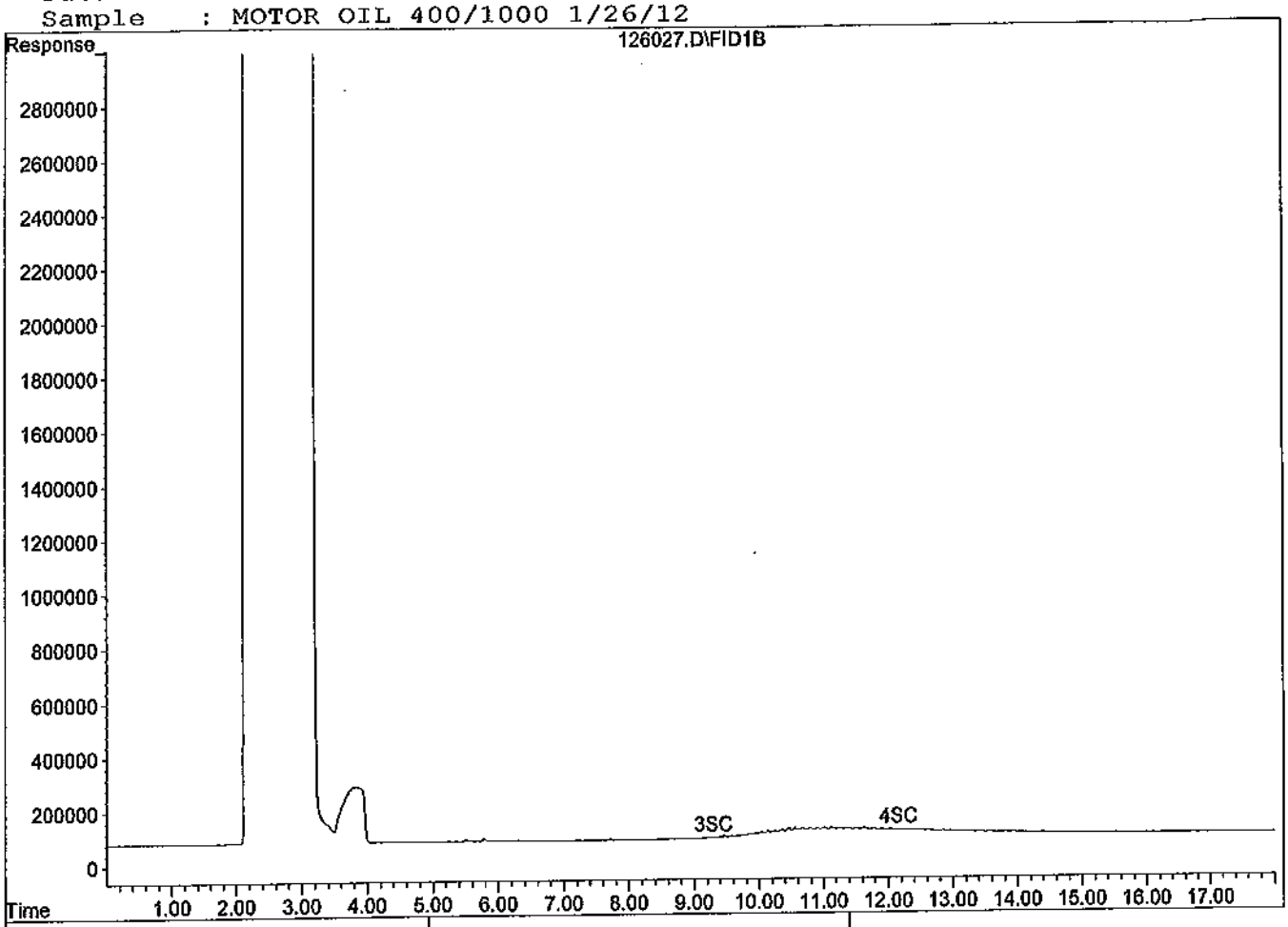
Data File : G:\APOLLO\DATA\120126\126027.D Vial: 27
Acq On : 1-30-12 15:44:09 Operator: LAC
Sample : MOTOR OIL 400/1000 1/26/12 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 30 17:12 2012 Quant Results File: TPH110.RES

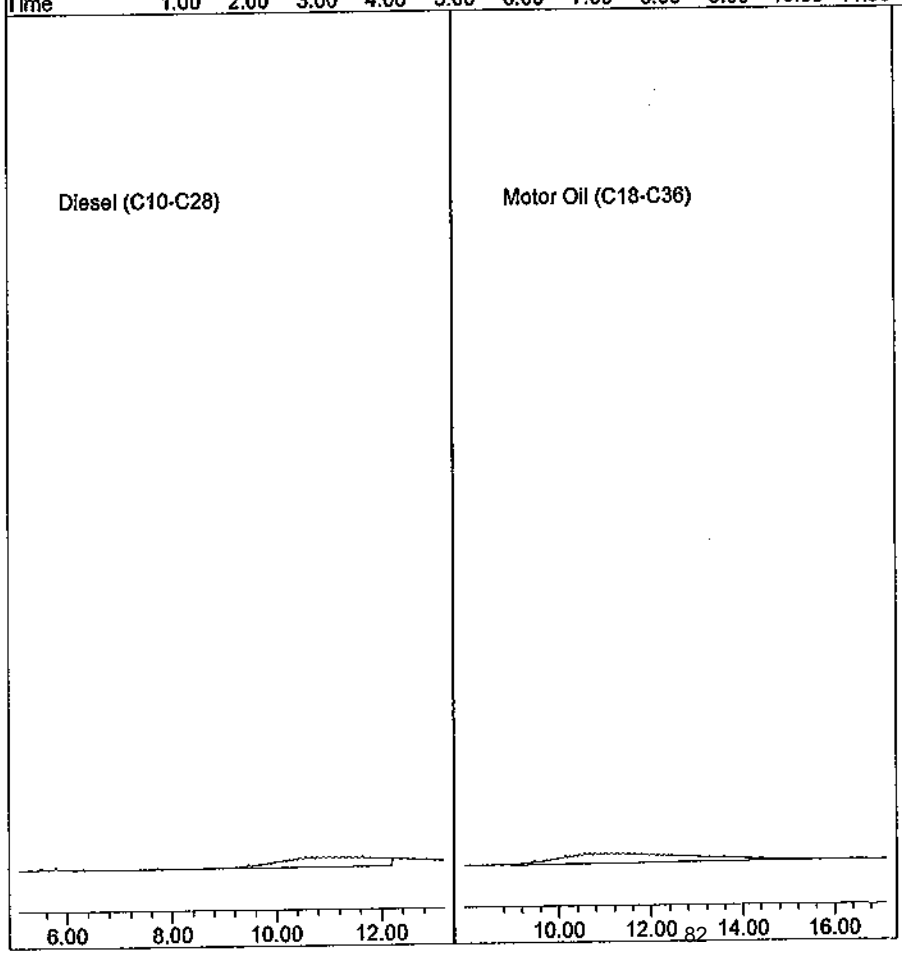
Method : G:\APOLLO\DATA\120126\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.31	36093	0.082 ppb
Surrogate Spike 30.000	Recovery	=	0.27%
4) SC Octacosane(S)	12.16	60703	0.531 ppb
Surrogate Spike 30.000	Recovery	=	1.77%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	44776583	121.325 ppb
2) HBTM Motor Oil (C18-C36)	12.55	69179444	428.944 ppb

Data File: G:\APOLLO\DATA\120126\126027.D
Sample : MOTOR OIL 400/1000 1/26/12





TPH Extractables
TPH110

Form 7

Continuing Calibration

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

SDG No: 64795
Date Analyzed: 01/30/12
Instrument: Apollo
Initial Cal. Date: 01/10/12
Data File: 126041,42.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	202470	195445	3.5	HATML	7.0
2	HBTM	Motor Oil (C18-C36)	80639	96842	20	HBTM	
3							
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35							
36							
37							
38							
39							
40							
		Average			11.8		

Quantitation Report (Not Reviewed)

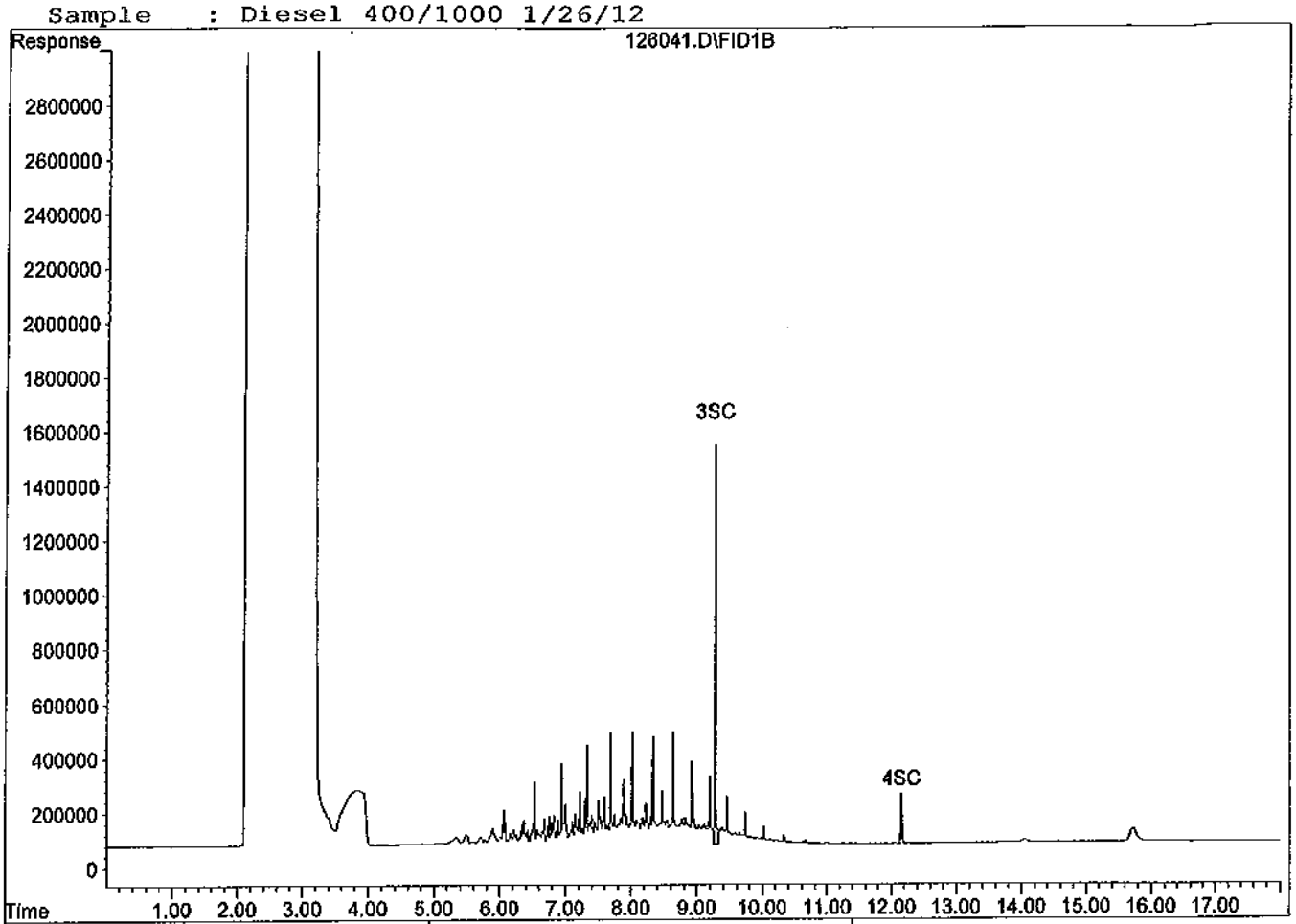
Data File : G:\APOLLO\DATA\120126\126041.D Vial: 41
Acq On : 1-30-12 21:33:48 Operator: LAC
Sample : Diesel 400/1000 1/26/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 31 8:43 2012 Quant Results File: TPH110.RES

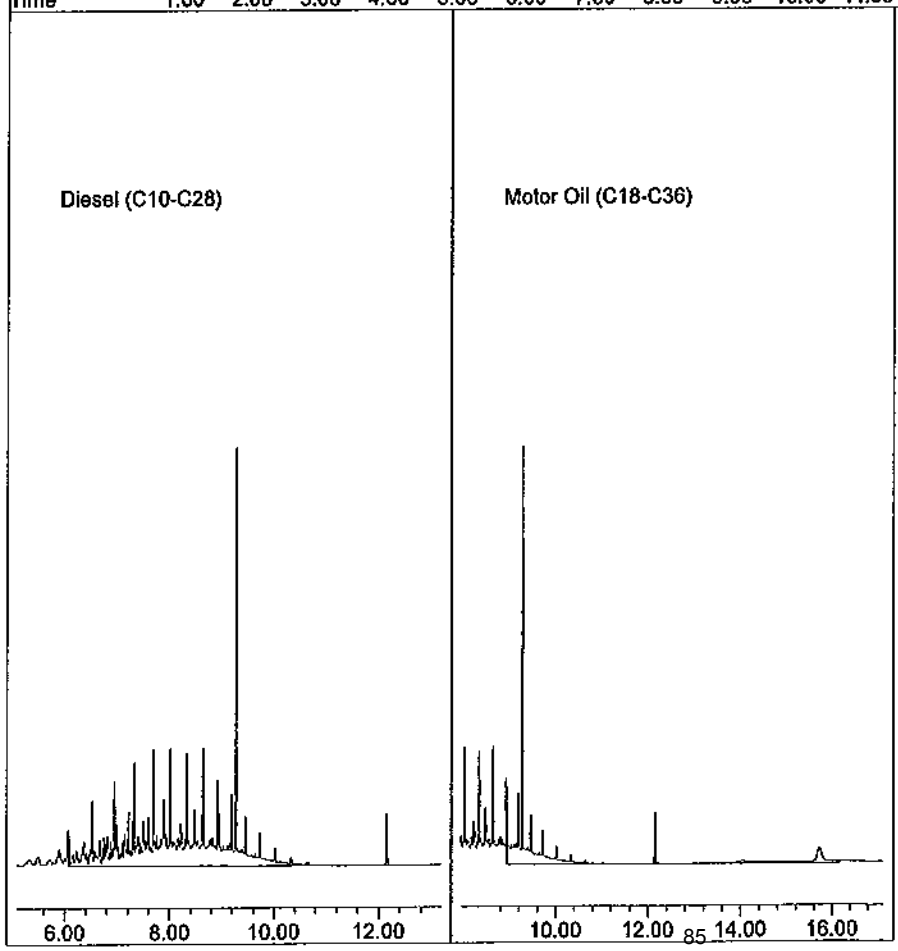
Method : G:\APOLLO\DATA\120126\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	11859773	26.912 ppb
Surrogate Spike 30.000	Recovery =		89.71%
4) SC Octacosane(S)	12.16	2367043	20.686 ppb
Surrogate Spike 30.000	Recovery =		68.95%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	156356239	428.051 ppb
2) HBTM Motor Oil (C18-C36)	12.55	45417866	281.612 ppb

Data File: G:\APOLLO\DATA\120126\126041.D
Sample : Diesel 400/1000 1/26/12





Quantitation Report (Not Reviewed)

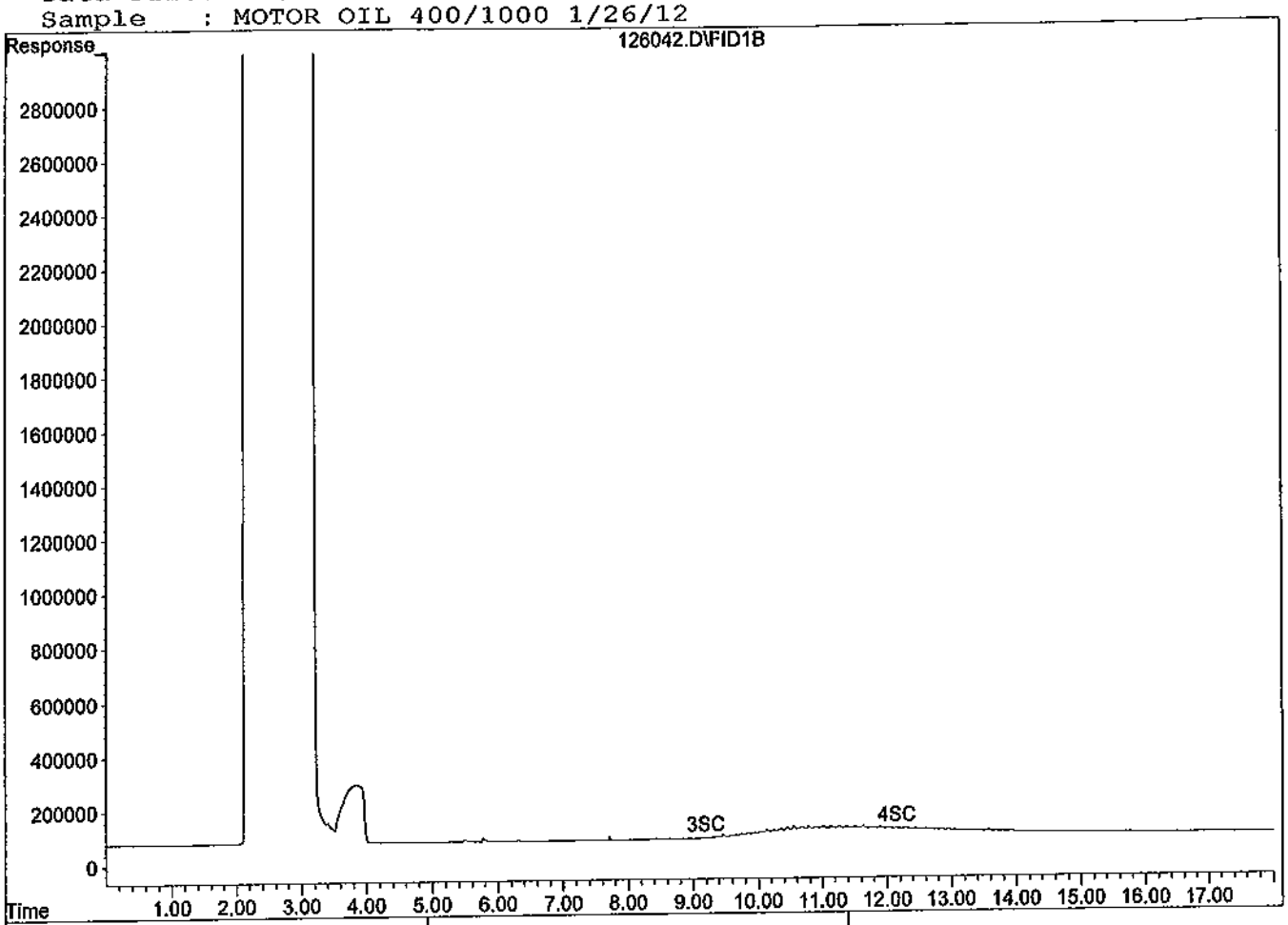
Data File : G:\APOLLO\DATA\120126\126042.D Vial: 42
Acq On : 1-30-12 21:57:24 Operator: LAC
Sample : MOTOR OIL 400/1000 1/26/12 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 31 8:44 2012 Quant Results File: TPH110.RES

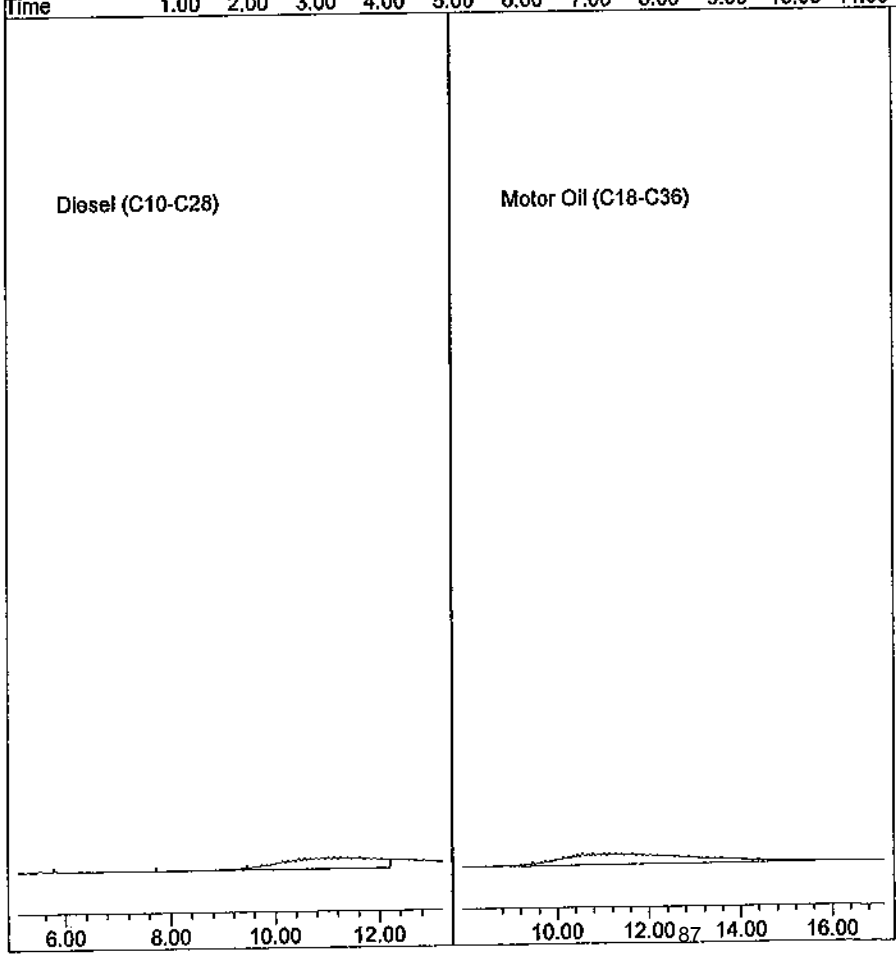
Method : G:\APOLLO\DATA\120126\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.20f	54742	0.124 ppb
Surrogate Spike 30.000	Recovery	=	0.41%
4) SC Octacosane(S)	12.15	73154	0.639 ppb
Surrogate Spike 30.000	Recovery	=	2.13%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	48655585	131.988 ppb
2) HBTM Motor Oil (C18-C36)	12.55	77473481	480.371 ppb

Data File: G:\APOLLO\DATA\120126\126042.D
Sample : MOTOR OIL 400/1000 1/26/12





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: **120126W-53666 - 163455**
Batch ID: #TPETD-120126A

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	01/26/12	01/30/12
BLANK	LUBE OIL	212.0 U	500	212.0	106.0	ug/L	01/26/12	01/30/12
BLANK	SURROGATE: OCTACOSANE (S)	89.2	28-142			%	01/26/12	01/30/12
BLANK	SURROGATE: ORTHO-TERPHEN	89.9	57-132			%	01/26/12	01/30/12

Quant Method:TPH110.M
Run #:126028
Instrument:Apollo
Sequence:120126
Initials:MA

GC SC-Blank-REG MDLs
Printed: 01/31/12 10:47:12 AM

Quantitation Report (QT Reviewed)

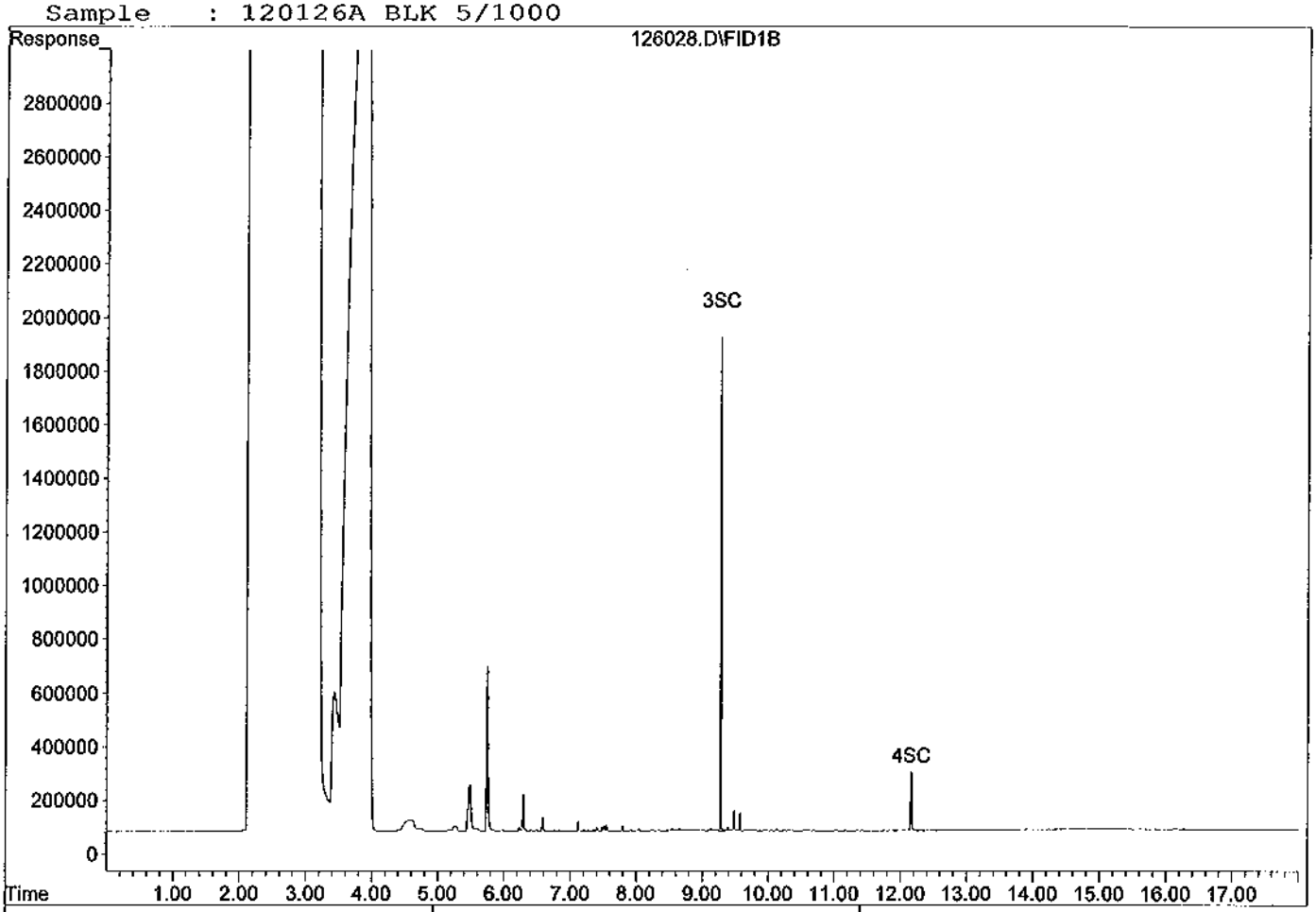
Data File : G:\APOLLO\DATA\120126\126028.D Vial: 28
Acq On : 1-30-12 16:25:49 Operator: LAC
Sample : 120126A BLK 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Jan 31 9:50 2012 Quant Results File: TPH110.RES

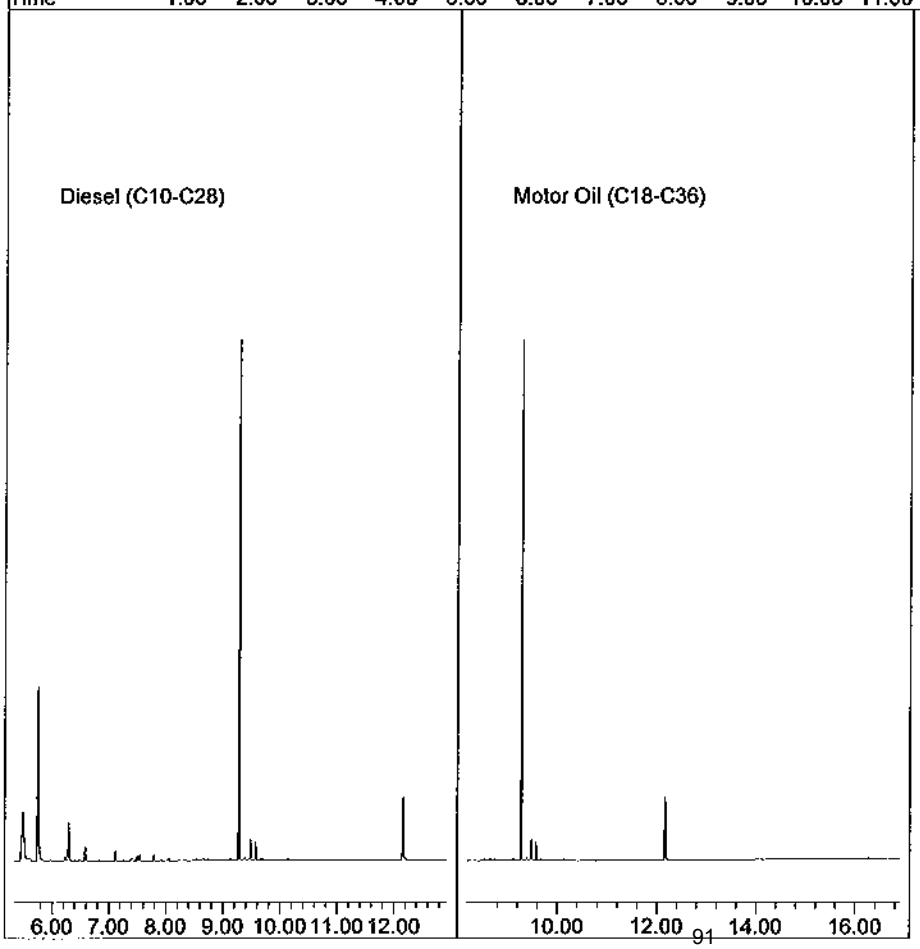
Method : G:\APOLLO\DATA\120126\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.28	11889078	134.894 ppb
Surrogate Spike 150.000		Recovery =	89.93%
4) SC Octacosane(S)	12.16	3062004	133.799 ppb
Surrogate Spike 150.000		Recovery =	89.20%
Target Compounds			

Data File: G:\APOLLO\DATA\120126\126028.D
Sample : 120126A BLK 5/1000





Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **120126W-53666 LCS - 163455**
Batch ID: #TPETD-120126A

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	1820	91.0	61-143
LUBE OIL	2000	1790	89.5	61-143
SURROGATE: OCTACOSANE (S)	150	124	82.7	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	171	114	57-132

Comments: _____

Primary	SPK
Quant Method :	TPH110.M
Extraction Date :	01/26/12
Analysis Date :	01/30/12
Instrument :	Apollo
Run :	126029
Initials :	MA

Printed: 01/31/12 10:47:13 AM

APPL Standard LCS

Quantitation Report (Not Reviewed)

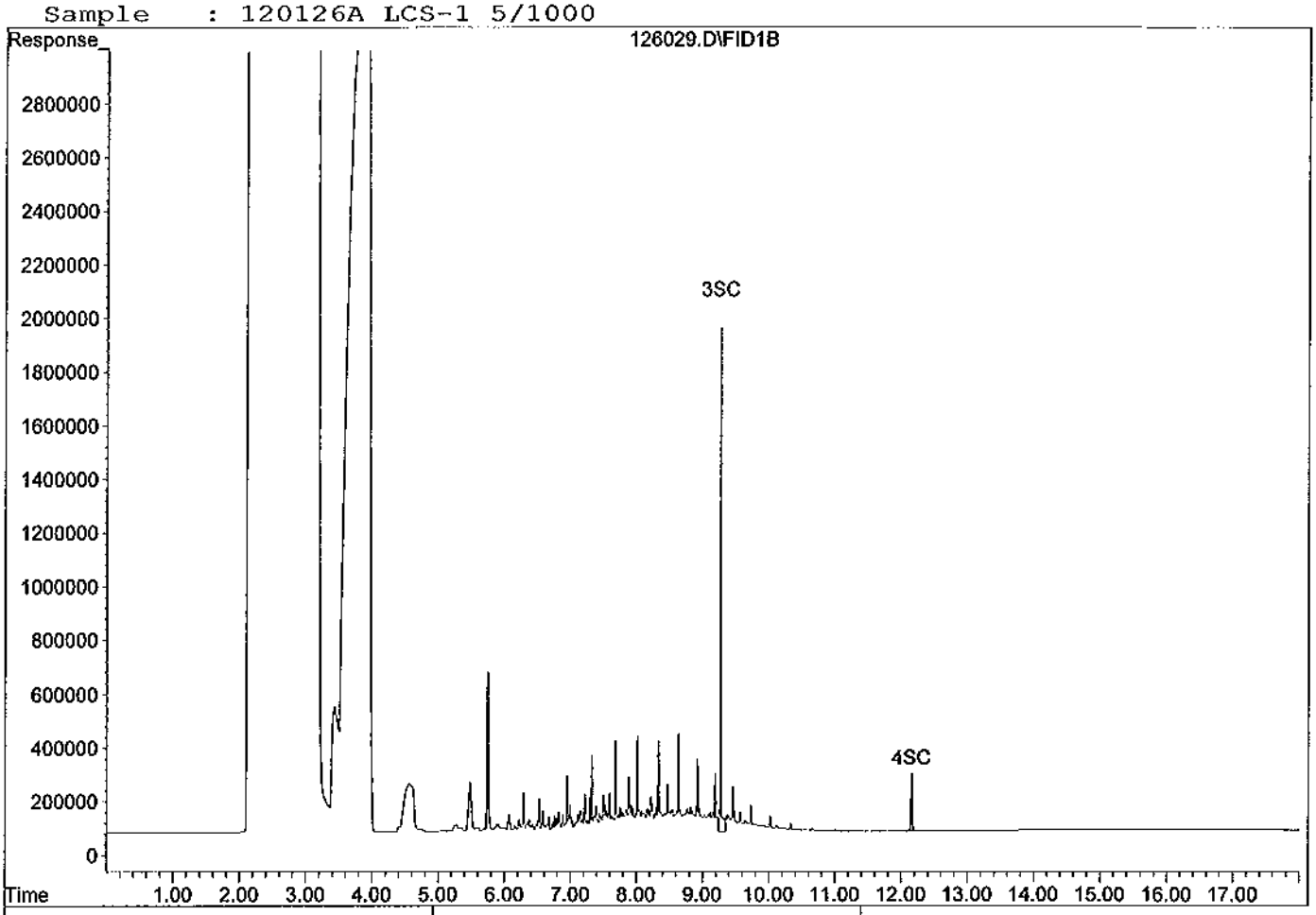
Data File : G:\APOLLO\DATA\120126\126029.D Vial: 29
Acq On : 1-30-12 16:49:31 Operator: LAC
Sample : 120126A LCS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Jan 31 9:37 2012 Quant Results File: TPH110.RES

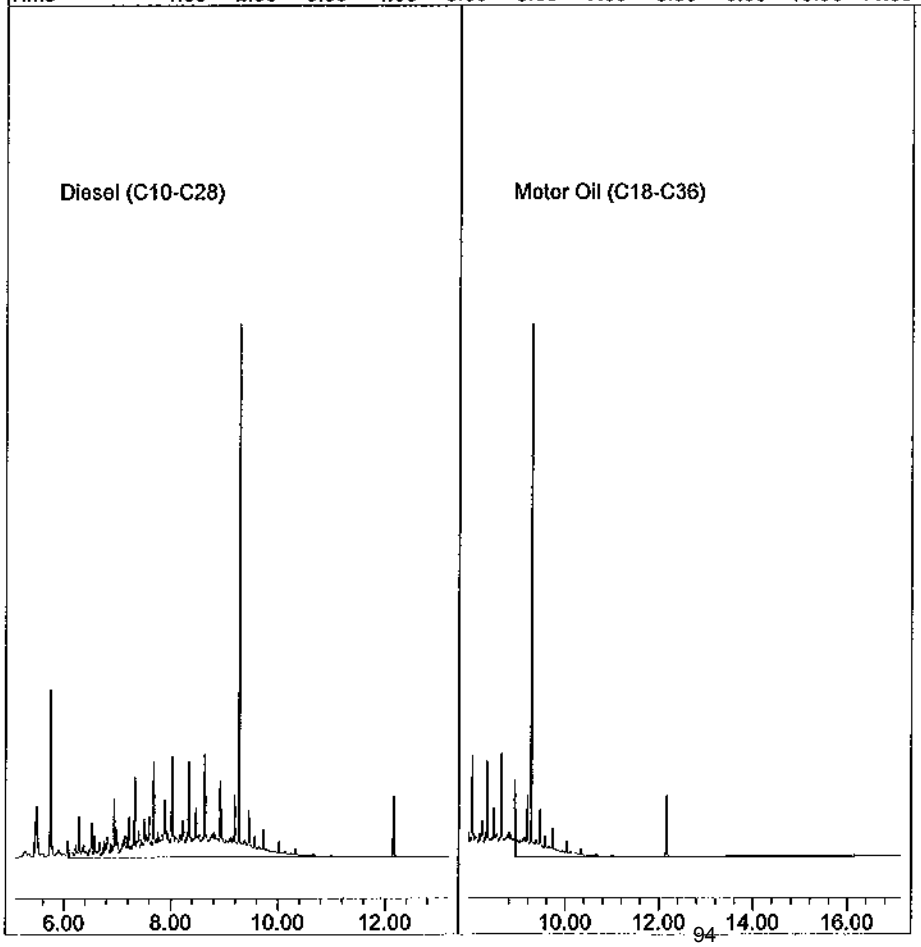
Method : G:\APOLLO\DATA\120126\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	15053690	170.800 ppb
Surrogate Spike 150.000		Recovery =	113.87%
4) SC Octacosane(S)	12.16	2833146	123.798 ppb
Surrogate Spike 150.000		Recovery =	82.53%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	133368928	1824.302 ppb
2) HBTM Motor Oil (C18-C36)	12.55	40522485	1256.290 ppb

Data File: G:\APOLLO\DATA\120126\126029.D
Sample : 120126A LCS-1 5/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120126\126030.D Vial: 30
Acq On : 1-30-12 17:13:17 Operator: LAC
Sample : 120126A LCS-2 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Jan 31 9:37 2012 Quant Results File: TPH110.RES

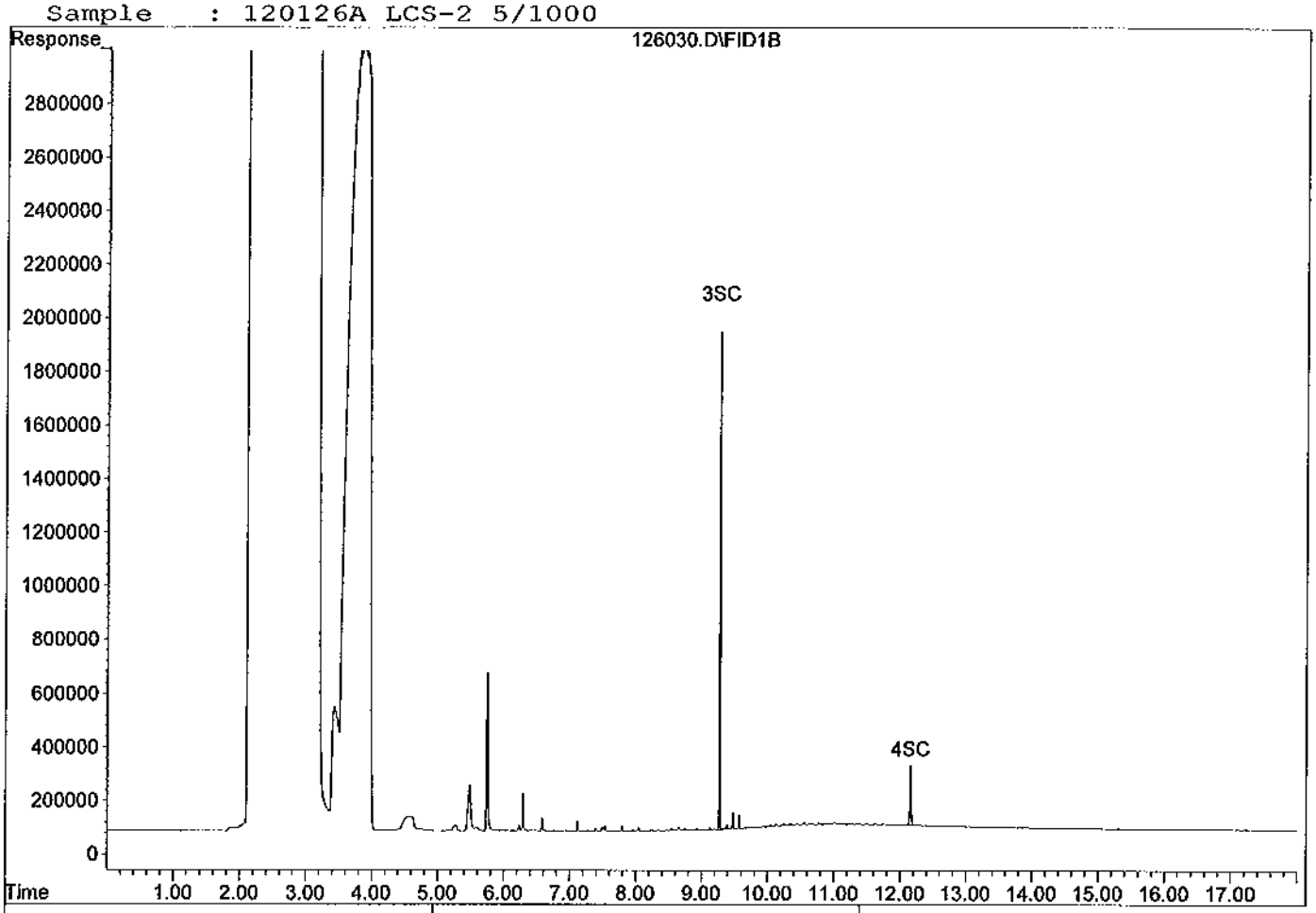
Method : G:\APOLLO\DATA\120126\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Jan 26 09:27:09 2012
Response via : Multiple Level Calibration

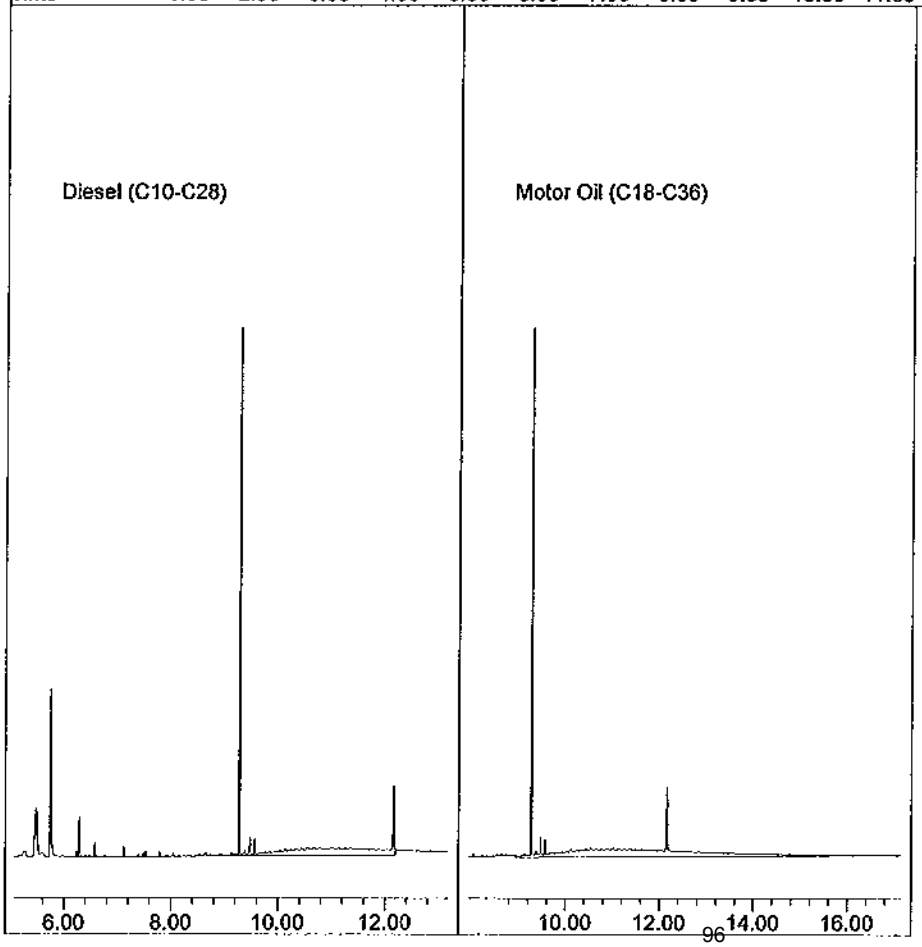
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	11966736	135.775 ppb
Surrogate Spike 150.000		Recovery =	90.52%
4) SC Octacosane(S)	12.16	3072457	134.256 ppb
Surrogate Spike 150.000		Recovery =	89.50%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	39973159	540.604 ppb
2) HBTM Motor Oil (C18-C36)	12.55	57680699	1788.234 ppb

Algorithm = $\frac{57680699 \times 5}{2 \times 80639} = 1788$

Data File: G:\APOLLO\DATA\120126\126030.D
Sample : 120126A LCS-2 5/1000





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

DR 1/10/12

DIESEL 2ND SOURCE						
STD	Init. Conc	Source	Aliquot	Final Vol.	Final Conc.	Solvent
DIESEL STD.	1000µg/ml	O2SI	400µL	1 mL	400 µg/mL	MC
Lot:167768-29406	Prep:	10/26/11				52257
	Exp:	04/26/12				

TL 1/10/12 Ex 4/26/12

TCH SURROGATE CURVE										
STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50		11/15/11	05/15/12	50	100	400	600	800	1000
MC		51257			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

TL 1/10/12 Ex 5/15/12

DIESEL CURVE										
STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
DIESEL	1000		12/28/11	06/28/12	10	100	400	600	800	1000
MC		51257			990	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

TL 1/10/12 Ex 6/28/12

MOTOR OIL CURVE										
STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		12/28/11	06/28/12	50	100	400	600	800	1000
MC		51257			950	900	600	400	200	NA
DR 1/10/12				Final VOL.	1000	1000	1,000	1000	1000	1000

TL 1/10/12 Ex 6/28/12

NOT used

DR 1/16/12

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

DIESEL STANDARD

DIESEL FUEL #2	50,000ug/ml	O2SI	1000ml	50ML	1000ug/ml	MC # 51204	10/26/11 EX: 4/26/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
011598-03
Lot # 167768 Storage ≤ -10 Degrees C Expiry 2/15/15
Soln: 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

DIBENZYL OCTACHLOSANE	600ug/ml	O2SI	4170ml		50ug/ml		

CAT: 110316-05
LOT: 176405-29338
OP: 10/10/11
EX: 10/10/12

MOTOR OIL STANDARD

MOTOR OIL	50,000ug/ml	O2SI	1000ml	50ML	1000ug/ml	MC # 51204	10/26/11 EX: 4/26/12

OP: 10/26/11 EX: 10/26/12
O2Si 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
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

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

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOL'N LOT #	DATE / INITIALS

003

THC SURROGATE (* GIVEN TO EXTRACTIONS)

O-TERPHENYL DOTRIACONTANE	600ug/ml	O2SI CAT: 1103116-05 LOT: 176405-29685 Thru 683 OP: 12/28/11 EX: 12/28/12	N/A	25ML	600ug/ml	N/A	12/28/11 EX: ~~12/28/11~~ 12/28/11 12/28/12

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

12/28/11
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
		10/26/11	04/26/12			51204

DIESEL CAL STD.

STD.	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT / LOT#
DIESEL FUEL #2	50,000 ug/mL	O2SI CAT#011598-03 LOT#179835-28848 OP:12/28/11 EXP:12/28/12	500µL	25mL	1000ug/mL	MC LOT# 110510F
O-TERPHENYL OCTACOSANE	600 ug/mL	O2SI CAT#1110316-05 LOT#176405-29679 OP:12/28/11EXP:12/28/12	2080µL		50ug/mL	

12/28/11
EX: 6/28/12

MOTOR OIL CAL STD

STD.	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT / LOT#
MOTOR OIL	50,000 ug/mL	O2SI CAT#116390-02 LOT#171383-28818 OP:12/28/11 EXP:12/28/12	500 µL	25mL	1000ug/mL	MC LOT# 110510F

12/28/11
EX: 6/28/12

DIESEL 2ND SOURCE

DIESEL FUEL #2	50,000ug/ml	O2SI CAT: 011598-03 LOT: 1677768-29405 OP: 12/28/11 EX: 12/28/12	500ml	25ML	1000ug/ml	MC #110510F	12/28/11 EX: 6/28/12

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	
AR 1016	CAT: 130011-03						#081111B	11/10/11
	LOT: 163607-27215							EX: 2/10/12
	OP: 11/10/11							
	EX: 11/10/12							
	AND							
	LOT: 152374-27210							
	OP: 3/2/11							
	EX: 3/2/12							
PCB WATER SPIKE								
AR1016	1000ng/µL	0251		125µL	25mL	5ng/µL	ACETONE	
AR1260	CAT: 130011-03						#081111B	11/10/11
	LOT: 163607-27214							EX: 2/10/12
	OP: 8/2/11							
	EX: 8/2/12							
HERB 100/1000 (LVL 3) CCV								
VARIOUS	VARIOUS	HERB STD.		100µL	1mL	100ng/µL	MTBE	
SEE PG 075	PREP: 10/11/11						#5D112	11/10/11
	EX: 4/11/12							EX: 4/11/12
THC SURROGATE CAL STD.								
D-TERPINYL ACETATE	1000ng/µL	0251		834µL	10mL	50ng/µL	MC	
	CAT: 110316-05						#51204	11/15/11
	LOT: 176405-293412							EX: 5/15/12
	OP: 10/10/11							
	EX: 10/10/12							

LAC 11/15/11

THC SURROGATE CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50	176405	11/15/2011	5/15/2012	50	100	400	600	800	1000
MC		51204			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

LAC 11/15/11 EX 5/15/12

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

017

MA FRACTIONATION SURROGATE

MA FRACTIONATION SURROGATE | 4000ug/ml | RESTEK | 125ml | 10ML | 50ug/ml | HEXANE | 1/24/12

RESTEK
Catalog # 3148
MA Fractionation Surrogate
Lot #: A084643 - 30173
Rec: 12/27/11 MFR exp. 11/30/18
MA Fractionation Surrogate Spike Mix
4000 ug/mL each in Hexane
Lot# A084643 Exp Date: 11/2018 Store: 10°C or colder
OP: 1/24/12 EX: 1/24/13
1/24/12

010711A

EX: 4/24/12

MA FRACTIONATION SURR CCV					
STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL
MA FRAC. SURR	50		01/24/12	04/24/12	400
HEXANE		010711A			600
				Final VOL.	1,000

MA 1/25/12
EX 4/24/12

Carbon Markers

C8-C40 | 500ug/ml | O2SI | 1000ml | 10ML | 50ug/ml | MC | 1/26/12

TRPH Standard (C8-C40), 500 mg/L, 5 x 1 ml
O2SI smart solutions
Cat. No: 110400-05-01-5PAK Exp: 4/6/2015
Lot No: 157984 Storage: </= -10 Degrees C
Solvent: Hexane
TRPH Standard (C8-C40)
Lot #: 157984 - 29410
Rec: 8/26/11 MFR exp. 04/06/15
mption For Research Use Only
te Opened: 1/26/12 EX: 1/26/13
1/26/12

51257

EX: 7/26/12

C9-C39 | 1000ug/ml | O2SI | 1000ml | 100ug/ml

Carbon Marker, (C9-C39 Odds Only), 1,000 mg/L, 2 x 1 ml
O2SI smart solutions Cat. No: 110498-01 Storage: </= 6 Degrees C
Made in USA Lot No: 159387 Solvent: Hexane
Exp: 5/16/2015 OP: 1/26/12 EX: 1/26/13
Date Oper Carbon Marker (c9-C39 Odds)
Lot #: 159387 - 28513
Rec: 3/16/11 MFR exp. 05/16/15
1/26/12

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
		12/28/11	06/28/12			51204

1/26/12
EX: 6/28/12

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
		12/28/11	06/28/12			51204

STANDARD 004

	INITIAL CONC	SOURCE / DATE	FINAL CONC	LOT #	DATE / INITIALS

PREP DATE:	12/28/11					
OP 2ND SOURCE						
EXP:	04/27/12					
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL
	OP 2ND SRC	6		12/02/11	04/27/12	500
VWR	HEXANE		010711A			500
					Final VOL.	1000

12/28/11
EX: 4/27/12

PREP DATE:	12/28/11												
OPF CURVE													
EXP:	02/07/12			12/28/11									
						TA	1	2	3	4	5	6	
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	
	OPF STD	5		~~12/07/11~~	02/07/12	2	10	50	200	500	700	1000	
	Hexane		010711A	12/28/11		998	990	950	800	500	300	NA	
					Final VOL.	1000	1000	1000	1000	1000	1000	1000	

12/28/11
EX: 2/7/12

DIESEL SPIKE

DIESEL FUEL #2 — 50,000ug/mL — O2SI — 2000mL — 50mL — 2000ug/mL — MC — #110510F — 12/28/11 — EX: 3/28/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
811598-03
Lot # 179635 | Storage ≤-10 Degrees C | Expiry 11/8/15
Solvt Methylene Chloride
Diesel Fuel #2 Composite OP: 12/28/11 EX: 12/28/12
Lot #: 179635 - 29647
Rec: 10/13/11 MFR exp. 11/08/15
12/28/11

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
811598-03
Lot # 179635 | Storage ≤-10 Degrees C | Expiry 11/8/15
Solvt Methylene Chloride
Diesel Fuel #2 Composite OP: 12/28/11 EX: 12/28/12
Lot #: 179635 - 29646
Rec: 10/13/11 MFR exp. 11/08/15

MOTOR OIL SPIKE

MOTOR OIL — 50,000ug/mL — O2SI — 3000mL — 75mL — 2000ug/mL — MC — #110510F — 12/28/11 — EX: 3/28/12

12/28/11
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 — OP: 12/28/11
Date Open — Motor oil composite — EX: 12/28/12
Lot #: 161898 - 27589
Rec: 10/18/10 MFR exp. 07/23/13

12/28/11
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 — OP: 12/28/11
Date Open — Motor oil composite — EX: 12/28/12
Lot #: 161898 - 27588
Rec: 10/18/10 MFR exp. 07/23/13

Motor Oil Composite, 50,000 mg/L, 1 ml
116390-03
Lot # 171363 | Storage ≤-10 Degrees C | Expiry 4/9/14
Solvt Methylene Chloride
Motor oil composite OP: 12/28/11 EX: 12/28/12
Lot #: 171363 - 28642
Rec: 4/20/11 MFR exp. 04/09/14
12/28/11

"SEP011

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	120126A	Extraction Method	SEP011	Units	mL

Spiked ID 1	Diesel Spike 12-28-11 EX 03-28-12		Surrogate ID 1	THC Surrogate 176405-29683	
Spiked ID 2	Motor Oil Spike 12-2-11 EX 03-02-12		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	NO	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	02/06/12 0:00	

pH1			Water Bath Temp Criteria	80 °C
pH2				
pH3				

Spiked By: DL **Date** 01/26/12 **Witnessed By:** GH **Date** 01/26/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	120126A Blk				0.250	1	1000	5	7	01/26/12 16:30	
						equip	E-WB5				
2	120126A LCS-1		1	1	0.250	1	1000	5	7	01/26/12 16:30	
						equip	E-WB5				
3	120126A LCS-2		1	2	0.250	1	1000	5	7	01/26/12 16:30	
						equip	E-WB5				
4	AY53434	AY53434W08			0.250	1	1050	5	7	01/26/12 16:30	66769-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
5	AY53436	AY53436W06			0.250	1	1050	5	7	01/26/12 16:30	66769-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
6	AY53437	AY53437W07			0.250	1	1050	5	7	01/26/12 16:30	66769-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
7	AY53438	AY53438W07			0.250	1	1050	5	7	01/26/12 16:30	66769-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
8	AY53462	AY53462W05			0.250	1	1050	5	7	01/26/12 16:30	66773 -- Amber Liter
						equip	E-WB5				
9	AY53463	AY53463W06			0.250	1	1050	5	7	01/26/12 16:30	66773 -- Amber Liter
						equip	E-WB6				
10	AY53464	AY53464W05			0.250	1	1050	5	7	01/26/12 16:30	66773 -- Amber Liter
						equip	E-WB6				
11	AY53666	AY53666W07			0.250	1	1050	5	7	01/26/12 16:30	66795-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
12	AY53667	AY53667W07			0.250	1	1050	5	7	01/26/12 16:30	66795-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
13	AY53668	AY53668W07			0.250	1	1050	5	7	01/26/12 16:30	66795-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
14	AY53671	AY53671W05			0.250	1	1050	5	7	01/26/12 16:30	66796-2 WEEK RUSH -- Amber Liter
						equip	E-WB7				

Solvent and Lot#	
MC	EMD 51257
Na2SO4	2351C512

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	
Date	1/30/12
Time	14:50
Refrigerator	HOBART

	Technician's Initials
Scanned By	GH
Sample Preparation	GH
Extraction	GH
Concentration	DL

Modified	01/26/12 2:42:37 PM

Reviewed By: DRA **Date** 01/27/12

SEP011

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	120126A	Extraction Method	SEP011	Units	mL

Spiked ID 1	Diesel Spike 12-28-11 BX 03-28-12		Surrogate ID 1	THC Surrogate 176405-29683	
Spiked ID 2	Motor Oil Spike 12-2-11 EX 03-02-12		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	NO	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	02/06/12 0:00	

pH1			Water Bath Temp Criteria	80 °C
pH2				
pH3				

Spiked By: DL **Date** 01/26/12 **Witnessed By:** GH **Date** 01/26/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
15	AY53672	AY53672W08			0.250	1	1050	5	7	01/26/12 16:30	66796-2 WEEK RUSH -- Amber Liter
						equip	E-WB7				
16	AY53673	AY53673W07			0.250	1	1050	5	7	01/26/12 16:30	66796-2 WEEK RUSH -- Amber Liter
						equip	E-WB7				
17	AY53674	AY53674W05			0.250	1	1050	5	7	01/26/12 16:30	66796-2 WEEK RUSH -- Amber Liter
						equip	E-WB7				
18	AY53675	AY53675W08			0.250	1	1050	5	7	01/26/12 16:30	66796-2 WEEK RUSH -- Amber Liter
						equip	E-WB7				

Solvent and Lot#	
MC	EMD 51257
Na2SO4	2351C512

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	
Date	1/30/12
Time	14:50
Refrigerator	HOBBIT

	Technician's Initials
Scanned By	GH
Sample Preparation	GH
Extraction	GH
Concentration	DL

Modified	01/26/12 2:42:37 PM

Reviewed By: DRA **Date** 01/27/12

Injection Log

Directory: G:\APOLLO\DATA\120110\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	5	110005.D	1	DIESEL 10/1000 1/10/12	Mix(A)	1-10-12 16:51:33
2	6	110006.D	1	DIESEL 100/1000 1/10/12	Mix(A)	1-10-12 17:15:27
3	7	110007.D	1	DIESEL 400/1000	Mix(A)	1-10-12 17:39:13
4	8	110008.D	1	DIESEL 600/1000	Mix(A)	1-10-12 18:02:56
5	9	110009.D	1	DIESEL 800/1000	Mix(A)	1-10-12 18:26:41
6	10	110010.D	1	DIESEL 1000/1000	Mix(A)	1-10-12 18:50:21
7	11	110011.D	1	MOTOR OIL 50/1000 1/10/12	Mix(B)	1-10-12 19:14:04
8	12	110012.D	1	MOTOR OIL 100/1000	Mix(B)	1-10-12 19:37:39
9	13	110013.D	1	MOTOR OIL 400/1000	Mix(B)	1-10-12 20:01:12
10	14	110014.D	1	MOTOR OIL 600/1000	Mix(B)	1-10-12 20:24:46
11	15	110015.D	1	MOTOR OIL 800/1000	Mix(B)	1-10-12 20:48:17
12	16	110016.D	1	MOTOR OIL 1000/1000	Mix(B)	1-10-12 21:11:50
13	17	110017.D	1	DIESEL 2ND SRC 400/1000 1/10/12	Mix(A)	1-10-12 21:35:15
14	18	110018.D	1	THC SURR 10/1000 1/10/12	Mix(C)	1-10-12 21:58:40
15	19	110019.D	1	THC SURR 100/1000	Mix(C)	1-10-12 22:22:01
16	20	110020.D	1	THC SURR 400/1000	Mix(C)	1-10-12 22:45:24
17	21	110021.D	1	THC SURR 600/1000	Mix(C)	1-10-12 23:08:42
18	22	110022.D	1	THC SURR 800/1000	Mix(C)	1-10-12 23:32:00
19	23	110023.D	1	THC SURR 1000/1000	Mix(C)	1-10-12 23:55:18
20	26	126026.D	1	DIESEL 400/1000 1/26/12	Mix(A)	1-30-12 15:20:23
21	27	126027.D	1	MOTOR OIL 400/1000 1/26/12	Mix(B)	1-30-12 15:44:09
22	28	126028.D	5	120126A BLK 5/1000	Water	1-30-12 16:25:49
23	29	126029.D	5	120126A LCS-1 5/1000	Water	1-30-12 16:49:31
24	30	126030.D	5	120126A LCS-2 5/1000	Water	1-30-12 17:13:17
25	38	126038.D	4.7619	AY53666W07 5/1050	Water	1-30-12 20:22:50
26	39	126039.D	4.7619	AY53667W07 5/1050	Water	1-30-12 20:46:29
27	40	126040.D	4.7619	AY53668W07 5/1050	water	1-30-12 21:10:09
28	41	126041.D	1	Diesel 400/1000 1/26/12	Mix(A)	1-30-12 21:33:48
29	42	126042.D	1	MOTOR OIL 400/1000 1/26/12	Water	1-30-12 21:57:24

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons

APPL, INC.

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
QC Summary

APPL, INC.

Method Blank
EPA 8270D SIM

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **120127W-53434 - 163643**
Batch ID: #SIMHC-120127A

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	01/27/12	01/30/12
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
BLANK	SURROGATE: 2-FLUORBIPHENY	51.7	50-110			%	01/27/12	01/30/12
BLANK	SURROGATE: NITROBENZENE-	58.5	40-110			%	01/27/12	01/30/12
BLANK	SURROGATE: TERPHENYL-D14 (	53.4	50-135			%	01/27/12	01/30/12

Quant Method:SIM2.M
Run #:0130L003
Instrument:Linus
Sequence:L111027
Initials:LF

GC SC-Blank-REG MDLs
Printed: 02/06/12 12:36:40 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66795

Case No: 66795 Date Analyzed: 01/30/12

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-FLUORBIPHENYL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120127A-BLK	Blank	50-110	51.7		40-110	58.5	
120127A-LCS	Lab Control Spike	50-110	56.5		40-110	63.5	
AY53666	ES057	50-110	54.8		40-110	60.5	
AY53667	ES058	50-110	50.8		40-110	62.4	
AY53668	ES059	50-110	58.5		40-110	71.1	

Comments: Batch: #SIMHC-120127A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66795

Case No: 66795 Date Analyzed: 01/30/12

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: TERPHENYL-D14 (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
120127A-BLK	Blank	50-135	53.4				
120127A-LCS	Lab Control Spike	50-135	59.0				
AY53666	ES057	50-135	53.0				
AY53667	ES058	50-135	55.5				
AY53668	ES059	50-135	55.3				

Comments: Batch: #SIMHC-120127A

Laboratory Control Spike Recovery
EPA 8270D SIM

APPL ID: **120127W-53434 LCS - 163643**
Batch ID: #SIMHC-120127A

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	2.64	66.0	45-105
2-METHYLNAPHTHALENE	4.00	2.50	62.5	45-105
ACENAPHTHENE	4.00	2.68	67.0	45-110
ACENAPHTHYLENE	4.00	2.63	65.8	50-105
ANTHRACENE	4.00	2.82	70.5	55-110
BENZO(A)ANTHRACENE	4.00	2.44	61.0	55-110
BENZO(A)PYRENE	4.00	2.69	67.3	55-110
BENZO(B)FLUORANTHENE	4.00	2.26	56.5	45-120
BENZO(GHI)PERYLENE	4.00	2.59	64.8	40-125
BENZO(K)FLUORANTHENE	4.00	3.86	96.5	45-125
CHRYSENE	4.00	3.06	76.5	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.38	59.5	40-125
FLUORANTHENE	4.00	2.99	74.8	55-115
FLUORENE	4.00	3.10	77.5	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.58	64.5	45-125
NAPHTHALENE	4.00	2.47	61.8	40-100
PHENANTHRENE	4.00	2.72	68.0	50-115
PYRENE	4.00	2.70	67.5	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.13	56.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.27	63.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.18	59.0	50-135

Comments: _____

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	01/27/12
Analysis Date :	01/30/12
Instrument :	Linus
Run :	0130L004
Initials :	LF

Printed: 02/06/12 12:36:47 PM

APPL Standard LCS

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66795

Case No: 66795 Date Analyzed: 01/30/12

Matrix: WATER Instrument: Linus

Blank ID: 120127A-BLK Time Analyzed: 1901

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120127A-BLK	Blank	0130L003	01/30/12 1901
120127A-LCS	Lab Control Spike	0130L004	01/30/12 1927
AY53666	ES057	0130L009	01/30/12 2134
AY53667	ES058	0130L010	01/30/12 2159
AY53668	ES059	0130L011	01/30/12 2224

Comments: Batch: #SIMHC-120127A

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 66795
Matrix: Water
ID: SVTUNE 10-27-11

SDG No: 66795
Date Analyzed: 01/30/12
Instrument: Linus
Time Analyzed: 18:18

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	120127A BLK 1/1000	0130L003.D	01/30/12 19:01
2	Lab Control Spike	120127A LCS-1 1/1000	0130L004.D	01/30/12 19:27
3	ES057	AY53666W06 1/1000	0130L009.D	01/30/12 21:34
4	ES058	AY53667W06 1/1010	0130L010.D	01/30/12 21:59
5	ES059	AY53668W04 1/1050	0130L011.D	01/30/12 22:24
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	53.3
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.7
127	40 - 60% of mass 198	59.9
197	0 - 1% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	7.3
275	10 - 30% of mass 198	25.3
365	1 - 100% of mass 198	3.7
441	0.01 - 100% of mass 443	75.2
442	40 - 150% of mass 198	92.0
443	17 - 23% of mass 442	20.4

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: SDG No.: 66795

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	120127A BLK 1/1000	2319	6.12	976	8.10	2166	9.86
02	120127A LCS-1 1/1000	1952	6.11	953	8.10	2053	9.84
03	AY53666W06 1/1000	2168	6.12	936	8.10	1793	9.85
04	AY53667W06 1/1010	2267	6.12	1113	8.10	2199	9.85
05	AY53668W04 1/1050	2299	6.11	1165	8.10	2030	9.85
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.: 66795

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	120127A BLK 1/1000	3024	12.95	2283	14.59		
02	120127A LCS-1 1/1000	2858	12.93	2324	14.57		
03	AY53666W06 1/1000	2806	12.95	2227	14.59		
04	AY53667W06 1/1010	2601	12.95	2225	14.59		
05	AY53668W04 1/1050	3136	12.95	2544	14.58		
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Sample Data

EPA 8270D SIM

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

Attn: Stacey Fineran
Project: RED HILL/1022-015
Sample ID: ES057
Sample Collection Date: 01/24/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66795
APPL ID: AY53666
QCG: #SIMHC-120127A-163643

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	01/27/12	01/30/12
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	54.8	50-110			%	01/27/12	01/30/12
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	60.5	40-110			%	01/27/12	01/30/12
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	53.0	50-135			%	01/27/12	01/30/12

Quant Method: SIM2.M
Run #: 0130L009
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 02/06/12 12:36:52 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0130L009.D Vial: 9
Acq On : 30 Jan 12 21:34 Operator: LF
Sample : AY53666W06 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 3 15:24 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.12	136	2168	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.10	164	936	2.50000 ppb	-0.01
11) Phenanthrene-D10(IS)	9.85	188	1793	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.95	240	2806	2.50000 ppb	0.02
21) Perylene-D12(IS)	14.59	264	2227	2.50000 ppb	0.04
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.49	82	470	1.21046 ppb	0.02
Spiked Amount 2.000			Recovery = 60.500%		
7) Surrogate Recovery (FBP)	7.35	172	914	1.09539 ppb	0.00
Spiked Amount 2.000			Recovery = 54.750%		
17) Surrogate Recovery (TPH)	11.70	244	1281	1.06020 ppb	-0.01
Spiked Amount 2.000			Recovery = 53.000%		

Target Compounds Qvalue

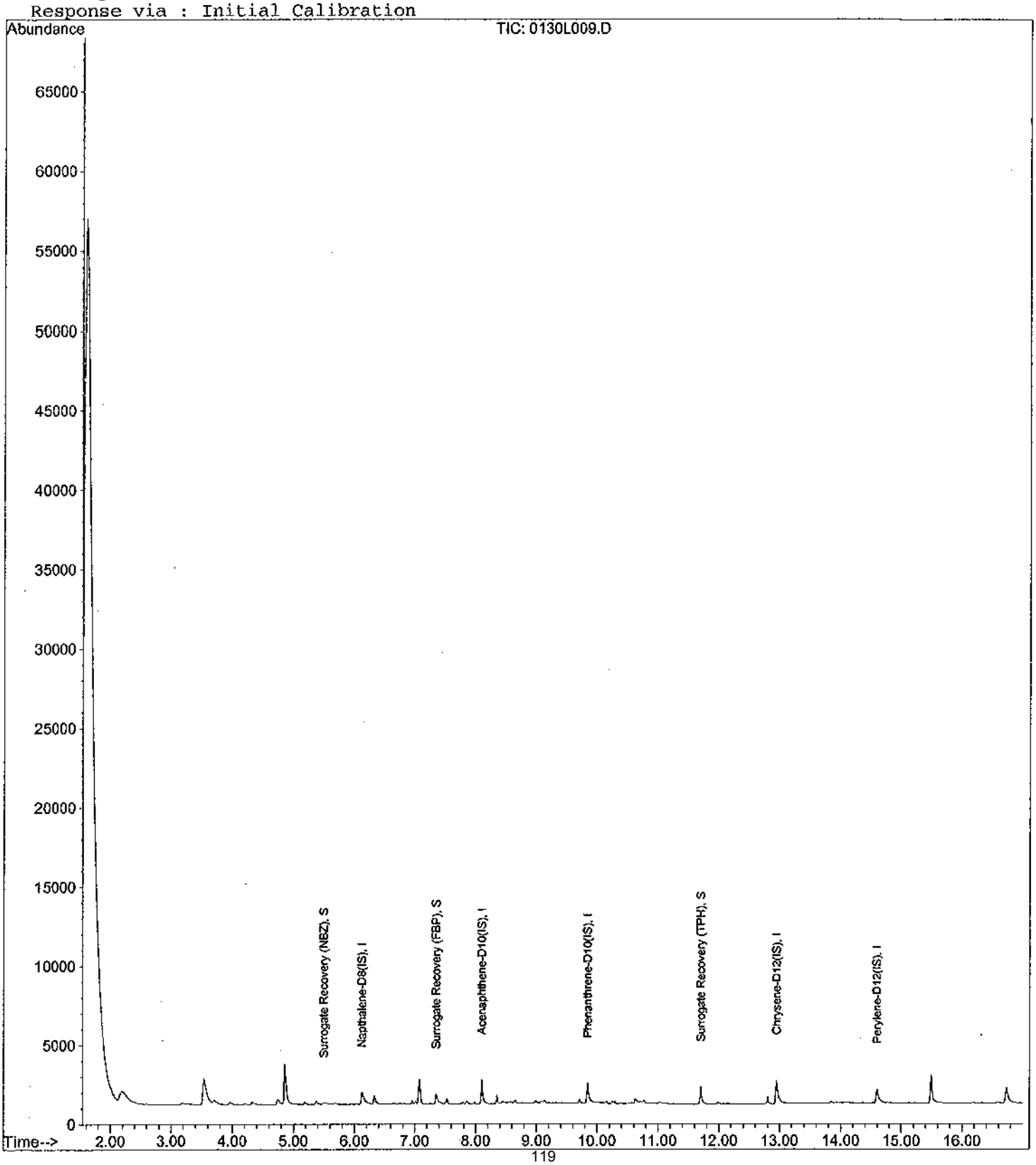
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0130L009.D Vial: 9
Acq On : 30 Jan 12 21:34 Operator: LF
Sample : AY53666W06 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 3 15:24 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
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/1022-015
Sample ID: ES058
Sample Collection Date: 01/24/12

ARF: 66795
APPL ID: AY53667
QCG: #SIMHC-120127A-163643

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	01/27/12	01/30/12
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	50.8	50-110			%	01/27/12	01/30/12
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	62.4	40-110			%	01/27/12	01/30/12
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	55.5	50-135			%	01/27/12	01/30/12

Quant Method: SIM2.M
Run #: 0130L010
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 02/06/12 12:36:52 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0130L010.D Vial: 10
Acq On : 30 Jan 12 21:59 Operator: LF
Sample : AY53667W06 1/1010 Inst : Linus
Misc : Multiplr: 0.99

Quant Time: Feb 3 15:27 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.12	136	2267	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.10	164	1113	2.50000 ppb	-0.01
11) Phenanthrene-D10(IS)	9.85	188	2199	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.95	240	2601	2.50000 ppb	0.02
21) Perylene-D12(IS)	14.59	264	2225	2.50000 ppb	0.03
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.48	82	507	1.23637 ppb	0.01
Spiked Amount 1.980			Recovery = 62.418%		
7) Surrogate Recovery (FBP)	7.35	172	1007	1.00487 ppb	0.00
Spiked Amount 1.980			Recovery = 50.753%		
17) Surrogate Recovery (TPH)	11.70	244	1243	1.09885 ppb	-0.01
Spiked Amount 1.980			Recovery = 55.500%		

Target Compounds Qvalue

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

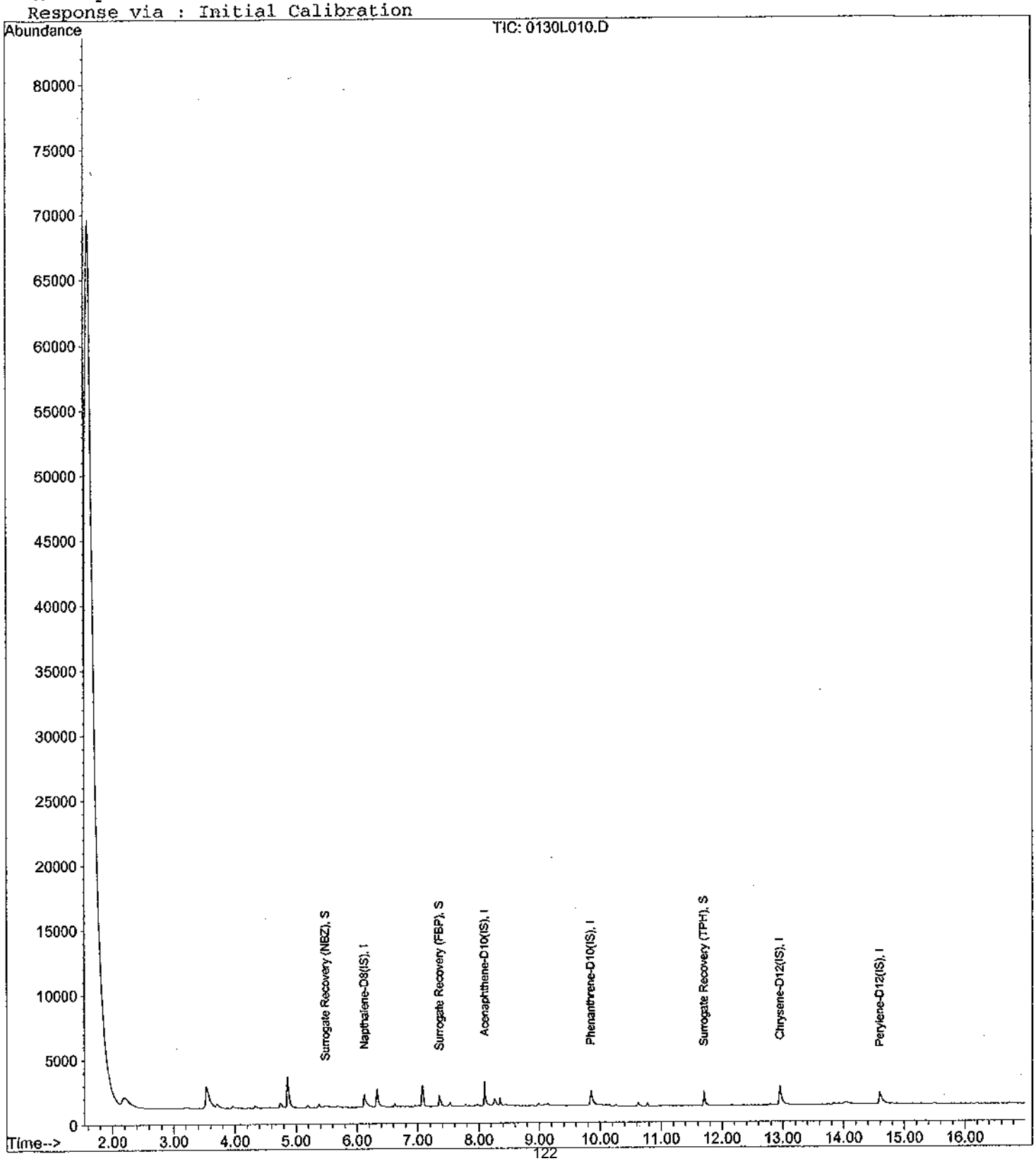
Quantitation Report

Data File : M:\LINUS\DATA\L111027\0130L010.D
Acq On : 30 Jan 12 21:59
Sample : AY53667W06 1/1010
Misc :

Vial: 10
Operator: LF
Inst : Linus
Multiplr: 0.99

Quant Time: Feb 3 15:27 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration



EPA 8270D SIM

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

Attn: Stacey Fineran
Project: RED HILL/1022-015
Sample ID: ES059
Sample Collection Date: 01/24/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66795
APPL ID: AY53668
QCG: #SIMHC-120127A-163643

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	01/27/12	01/30/12
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	58.5	50-110			%	01/27/12	01/30/12
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	71.1	40-110			%	01/27/12	01/30/12
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	55.3	50-135			%	01/27/12	01/30/12

Quant Method: SIM2.M
Run #: 0130L011
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 02/06/12 12:36:52 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0130L011.D Vial: 11
Acq On : 30 Jan 12 22:24 Operator: LF
Sample : AY53668W04 1/1050 Inst : Linus
Misc : Multiplr: 0.95

Quant Time: Feb 3 15:27 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.11	136	2299	2.50000 ppb	-0.01
6) Acenaphthene-D10(IS)	8.10	164	1165	2.50000 ppb	-0.01
11) Phenanthrene-D10(IS)	9.85	188	2030	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.95	240	3136	2.50000 ppb	0.02
21) Perylene-D12(IS)	14.58	264	2544	2.50000 ppb	0.02
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.47	82	586	1.35545 ppb	0.00
Spiked Amount 1.905			Recovery = 71.138%		
7) Surrogate Recovery (FBP)	7.34	172	1215	1.11418 ppb	-0.01
Spiked Amount 1.905			Recovery = 58.485%		
17) Surrogate Recovery (TPH)	11.70	244	1494	1.05369 ppb	-0.01
Spiked Amount 1.905			Recovery = 55.335%		

Target Compounds Qvalue

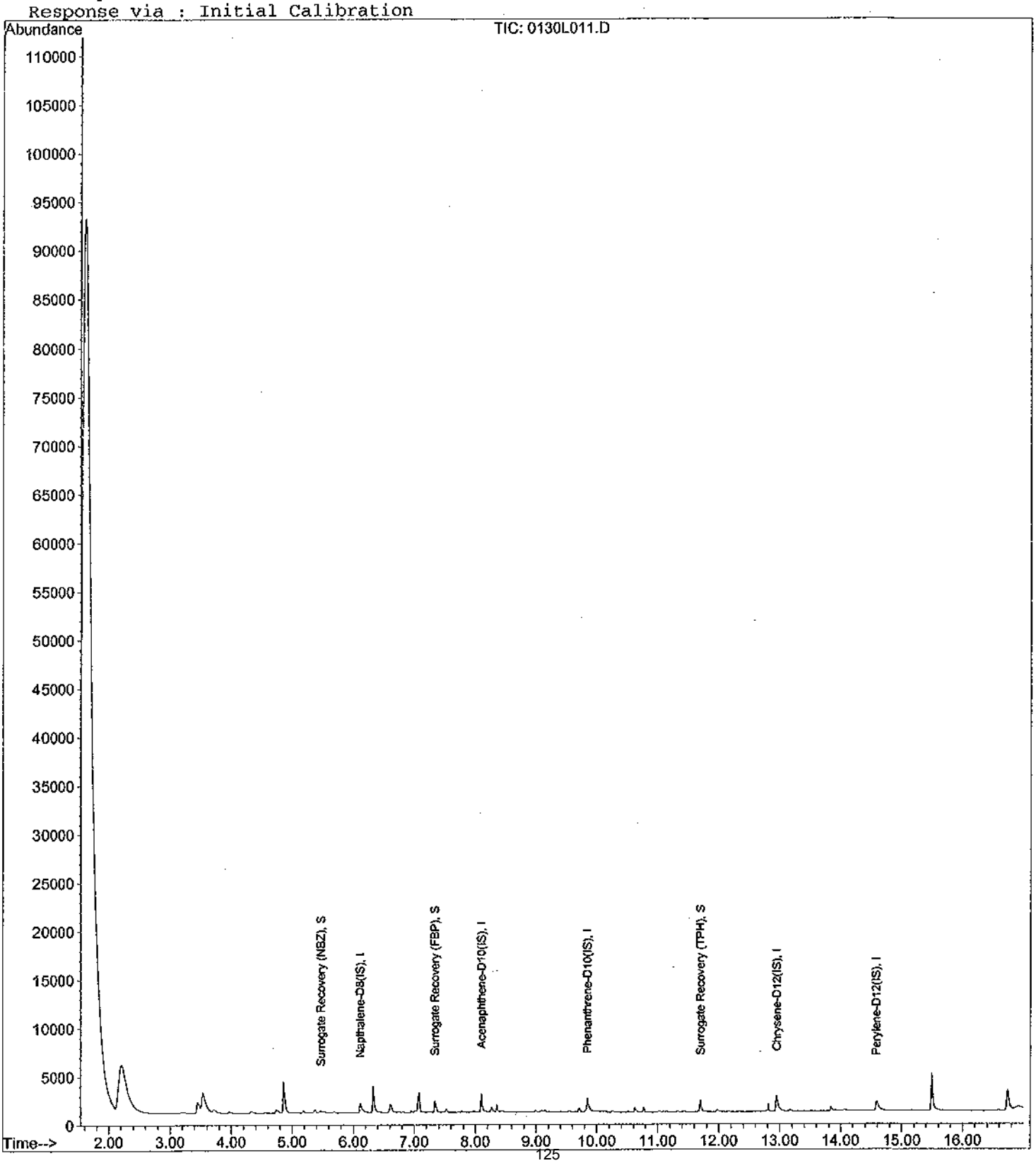
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0130L011.D Vial: 11
Acq On : 30 Jan 12 22:24 Operator: LF
Sample : AY53668W04 1/1050 Inst : Linus
Misc : Multiplr: 0.95

Quant Time: Feb 3 15:27 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Calibration Data

EPA 8270C SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66795
Case No: Initial Cal. Date: 10/27/11
Matrix: Instrument: Linus
Initials:

		Compound	1027L003.D 0.1	1027L004.D 0.2	1028L005.D 0.5	1028L006.D 1	1028L007.D 5	1028L008.D 10	1028L009.D 50	1028L010.D 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

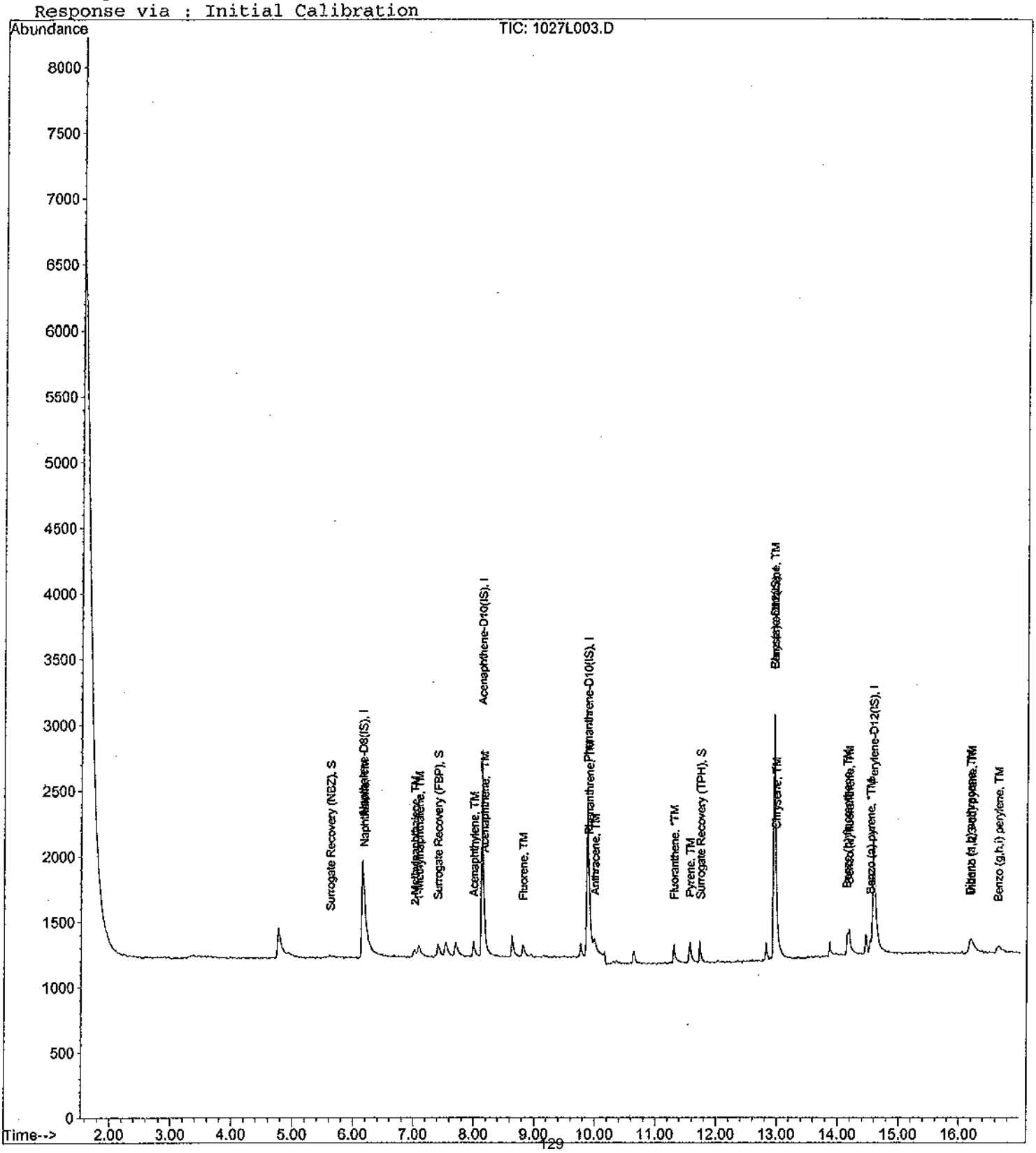
(#) = qualifier out of range (m) = manual integration

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

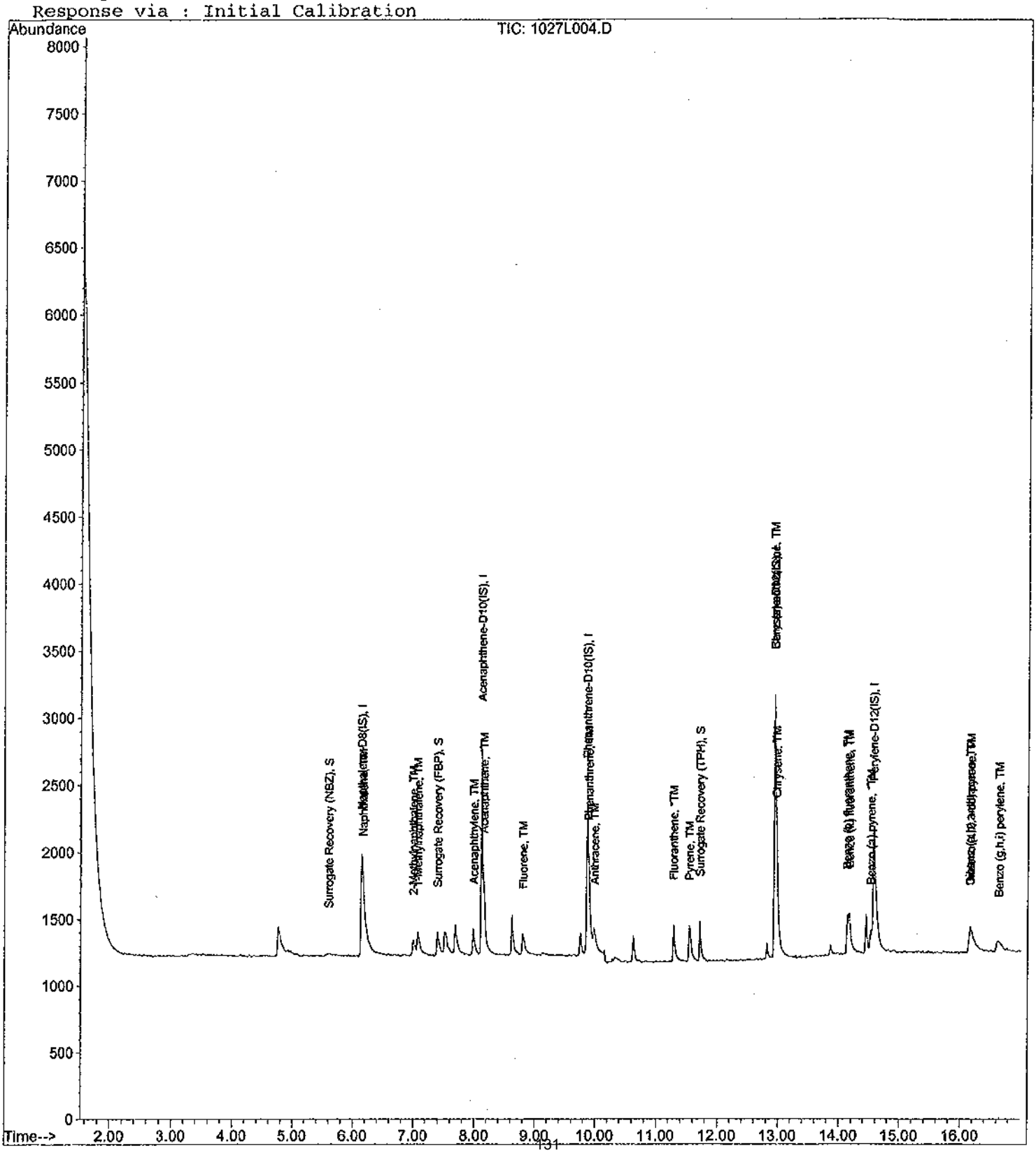
(#) = qualifier out of range (m) = manual integration

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

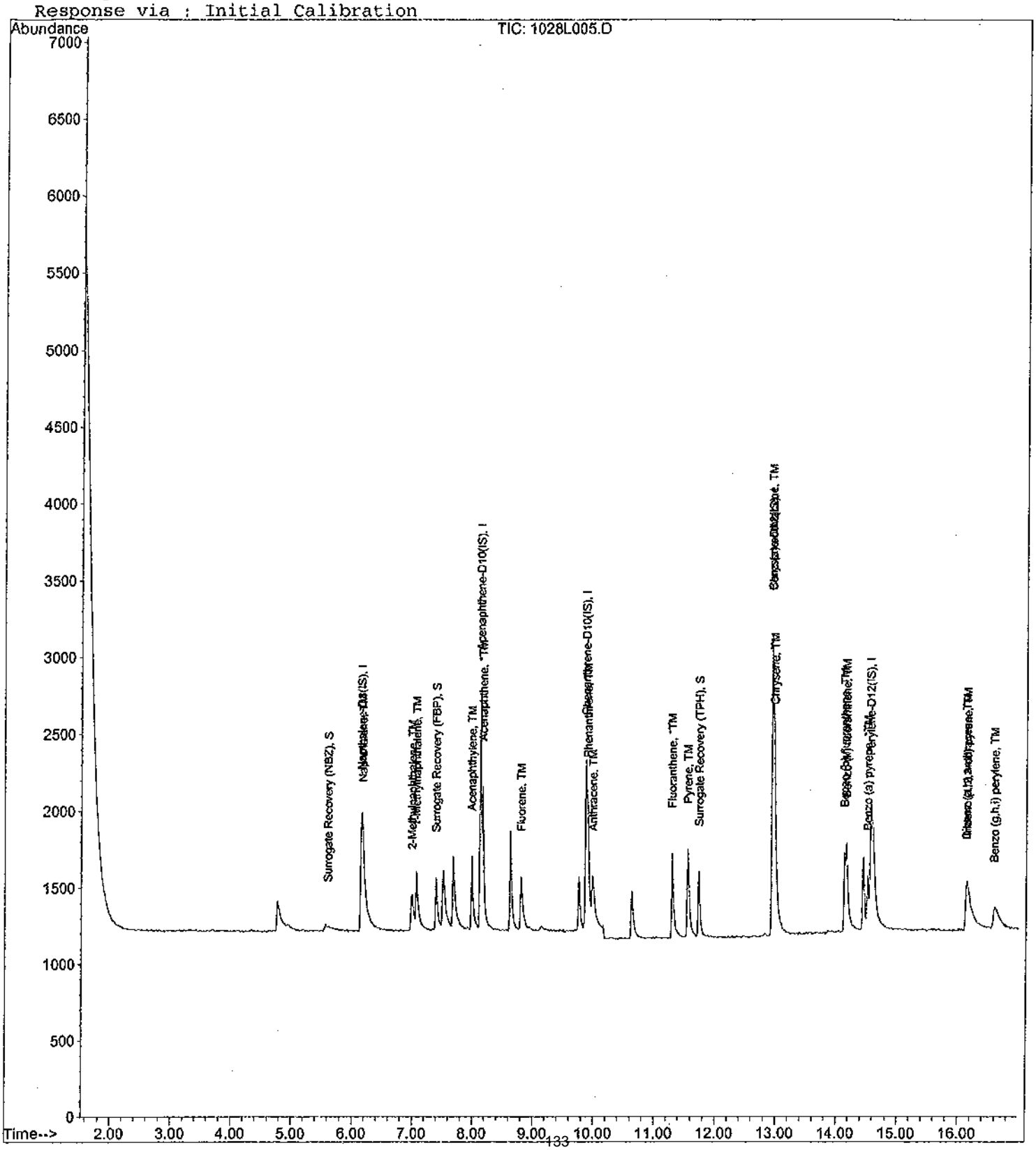
(#) = qualifier out of range (m) = manual integration
1028L005.D SIM2.M Tue Nov 01 17:34:13 2011 Page 1

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
1028L006.D SIM2.M Tue Nov 01 17:34:15 2011 Page 1

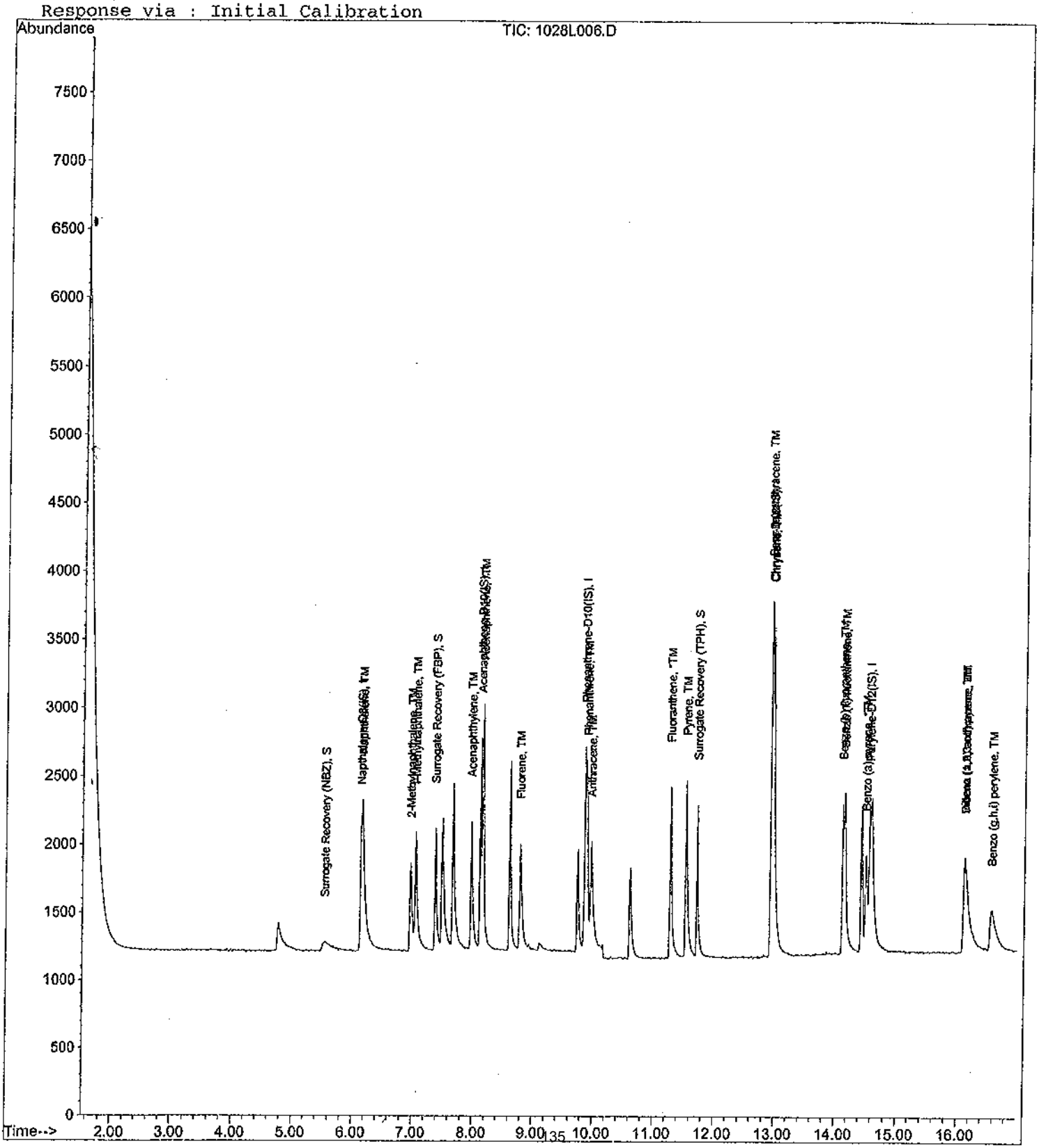
Quantitation Report

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

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

Quant Time: Oct 30 11:10 2011 Quant Results File: SIM2.RES

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



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
1028L007.D SIM2.M Tue Nov 01 17:34:17 2011 Page 1

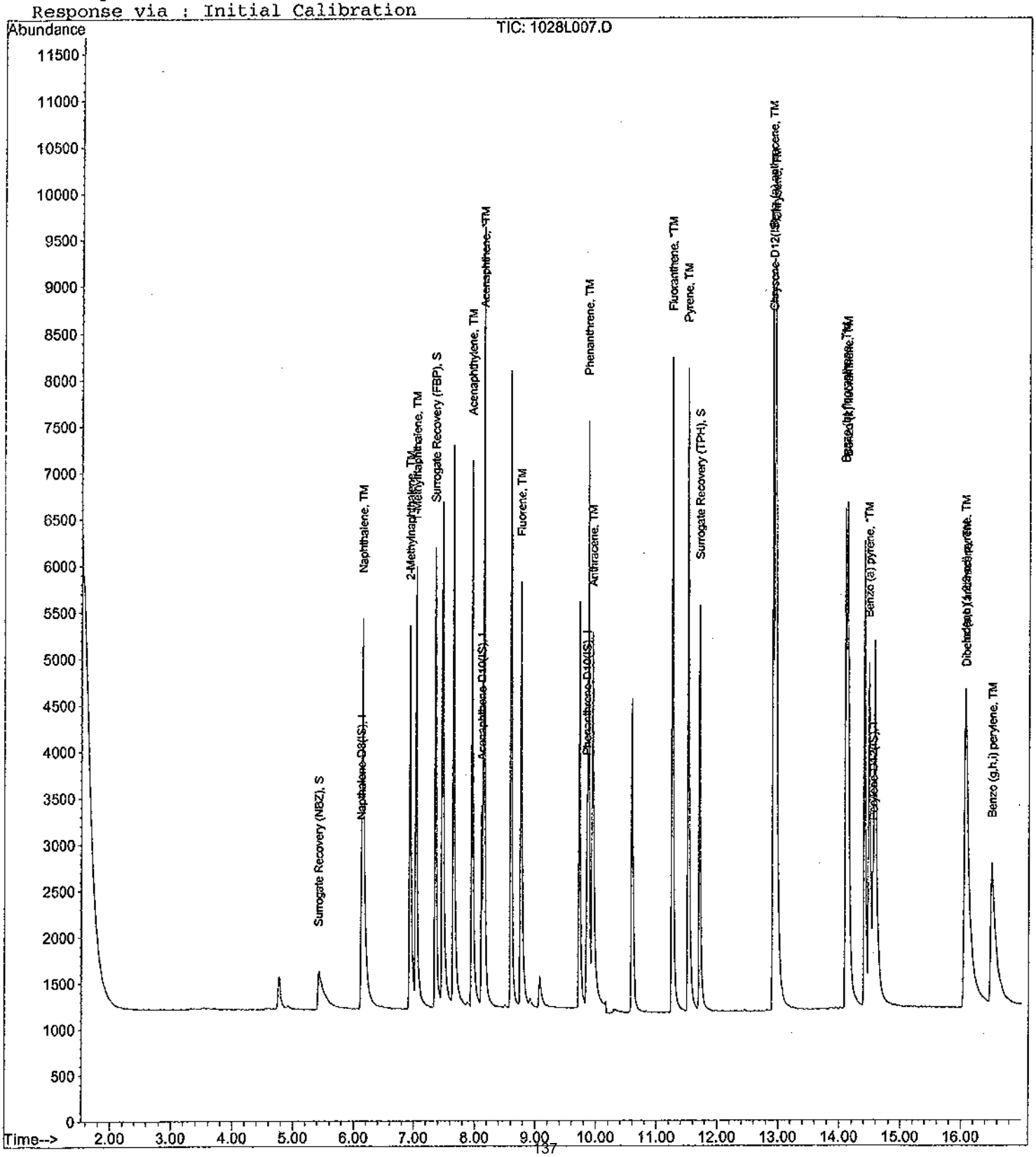
Quantitation Report

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

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

Quant Time: Oct 30 10:40 2011 Quant Results File: SIM2.RES

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



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

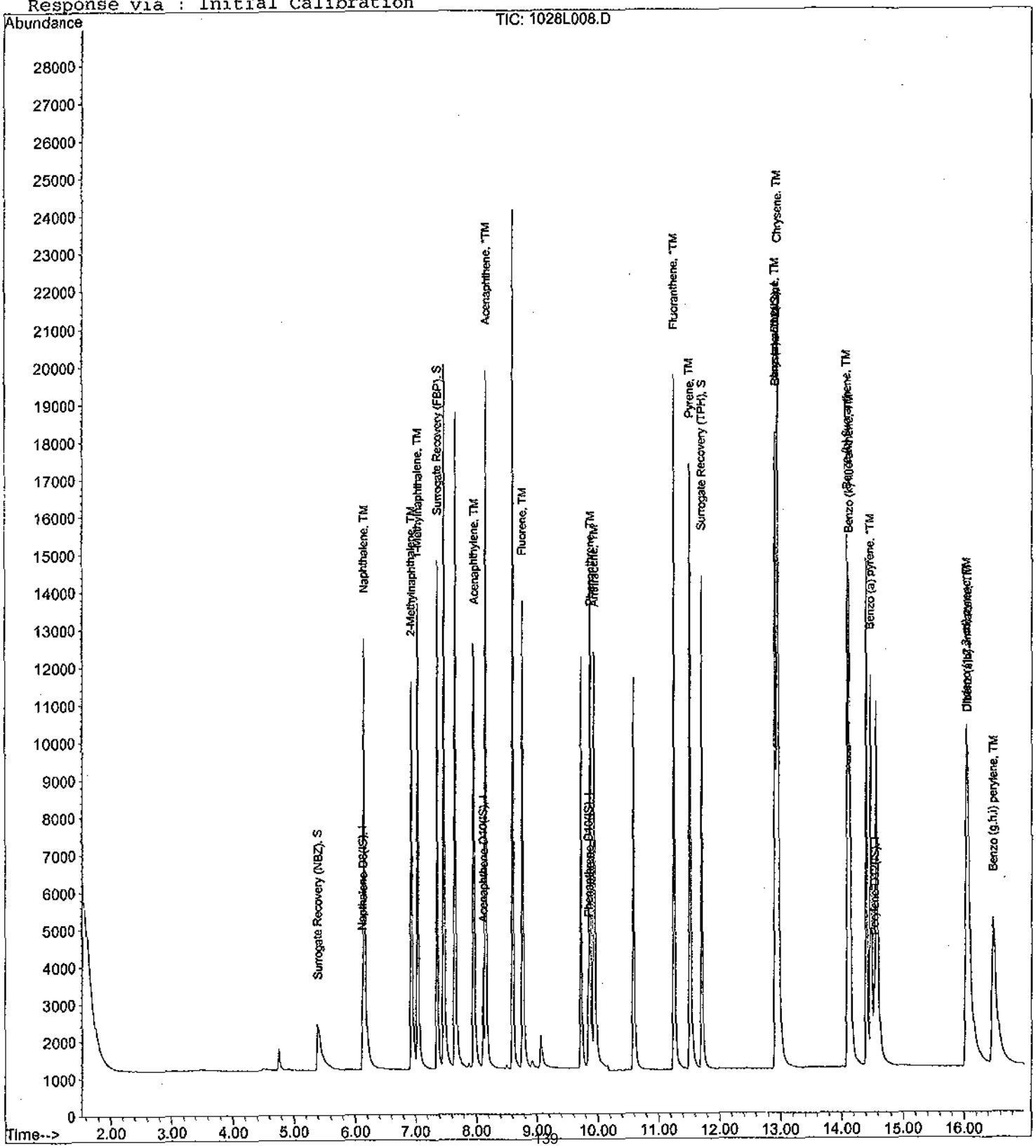
Quantitation Report

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

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

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

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



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

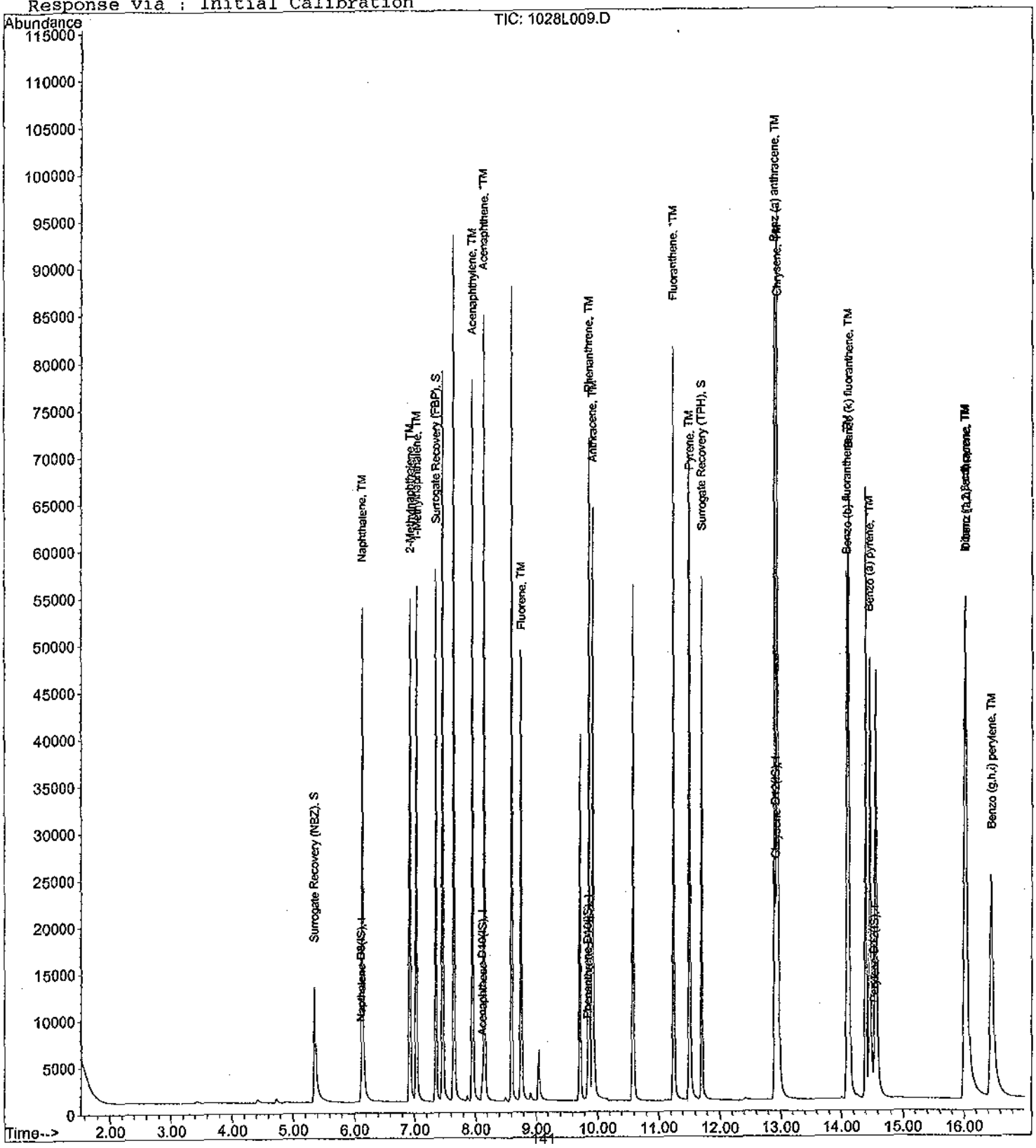
Quantitation Report

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

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

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

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



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

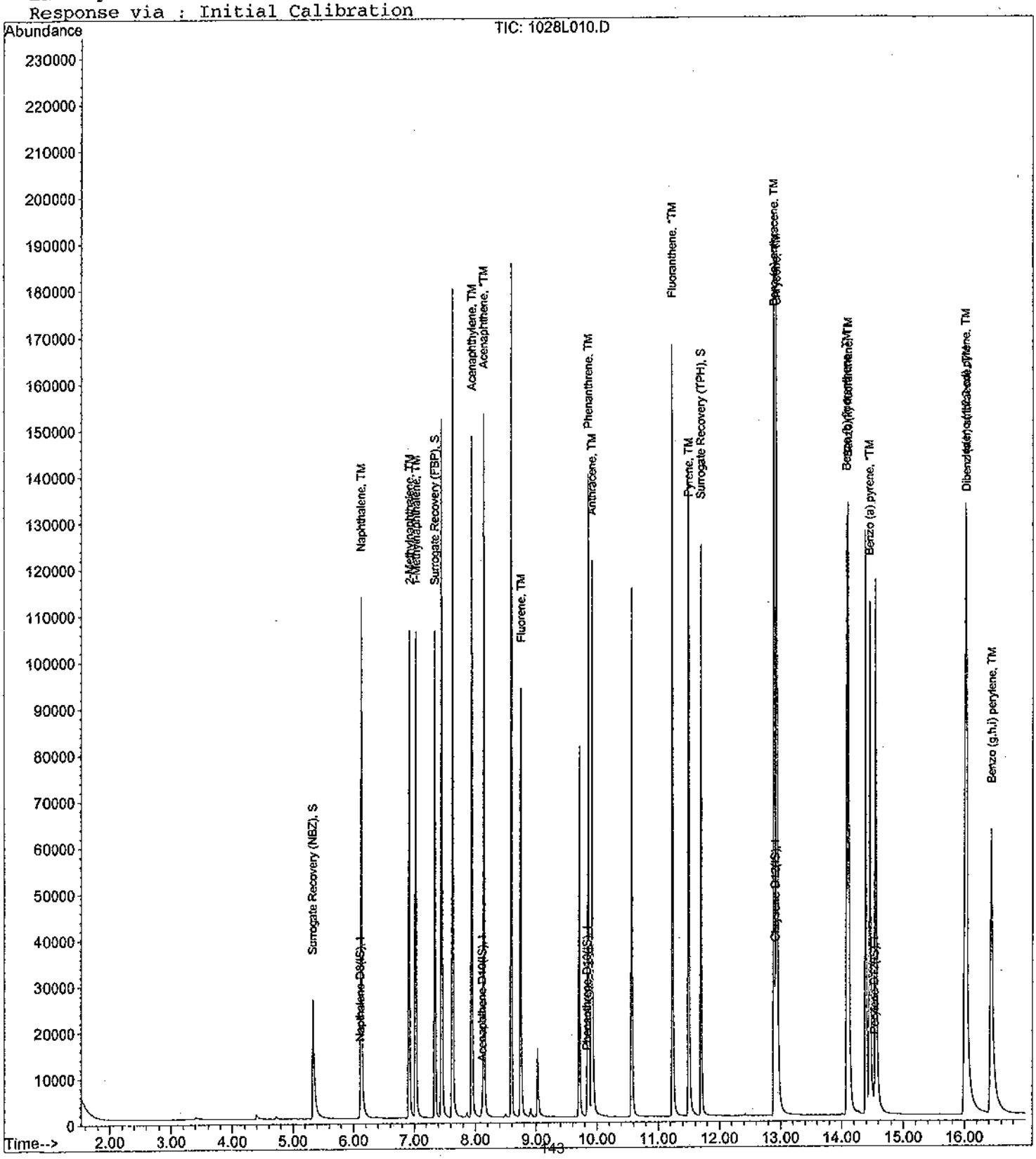
Quantitation Report

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

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

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

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



EPA 8270C SIM

Form 7

Second Source Calibration

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

SDG No: 66795
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

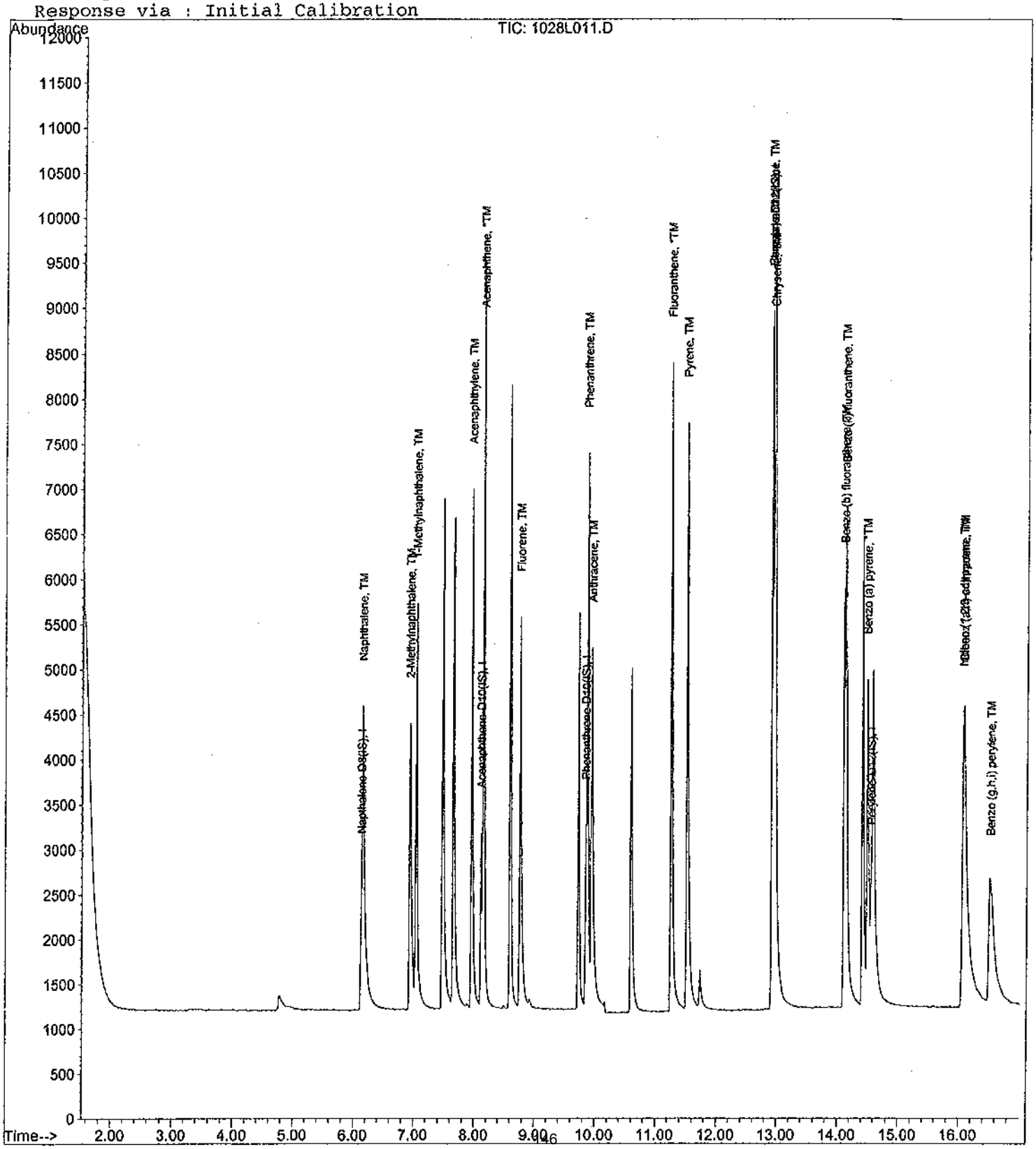
(#) = qualifier out of range (m) = manual integration

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: 66795
Date Analyzed: 01/30/12
Instrument: Linus
Initial Cal. Date: 10/27/11
Data File: 0130L002.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	S	Surrogate Recovery (NBZ)	0.4477	0.3881	13	S	
3	TM	Naphthalene	1.742	1.428	18	TM	
4	TM	2-Methylnaphthalene	0.8931	0.7983	11	TM	
5	TM	1-Methylnaphthalene	1.031	0.9264	10	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	S	Surrogate Recovery (FBP)	2.229	1.864	16	S	
8	TM	Acenaphthylene	3.327	3.007	9.6	TM	
9	*TM	Acenaphthene	1.904	1.788	6.1	*TM	
10	TM	Fluorene	2.083	2.008	3.6	TM	
11	I	Phenanthrene-D10(IS)	ISTD			I	
12	TM	Phenanthrene	1.609	1.585	1.5	TM	
13	TM	Anthracene	1.634	1.672	2.3	TM	
14	*TM	Fluoranthene	2.792	2.638	5.5	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	2.200	1.935	12	TM	
17	S	Surrogate Recovery (TPH)	1.077	0.9228	14	S	
18	TM	Benz (a) anthracene	1.449	1.289	11	TM	
19	TM	Chrysene	1.939	1.747	9.9	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.502	1.323	12	TM	
21	I	Perylene-D12(IS)	ISTD			I	
22	TM	Benzo (b) fluoranthene	1.761	1.622	7.9	TM	
23	TM	Benzo (k) fluoranthene	1.823	1.973	8.2	TM	
24	*TM	Benzo (a) pyrene	1.723	1.542	11	*TM	
25	TM	Dibenz (a,h) anthracene	1.447	1.279	12	TM	
26	TM	Benzo (g,h,i) perylene	1.525	1.428	6.4	TM	
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			9.6		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0130L002.D
Acq On : 30 Jan 12 18:36
Sample : 5.0ug/ml PAH 10-27-11
Misc :

Vial: 2
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Feb 3 15:19 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.11	136	2766	2.50000 ppb		-0.01
6) Acenaphthene-D10(IS)	8.10	164	1154	2.50000 ppb		-0.01
11) Phenanthrene-D10(IS)	9.84	188	1994	2.50000 ppb		-0.01
15) Chrysene-D12(IS)	12.93	240	2868	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	2312	2.50000 ppb		0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.43	82	2147	4.33404 ppb		-0.04
Spiked Amount 2.000			Recovery	= 216.700%		
7) Surrogate Recovery (FBP)	7.34	172	4302	4.18178 ppb		-0.01
Spiked Amount 2.000			Recovery	= 209.100%		
17) Surrogate Recovery (TPH)	11.69	244	5293	4.28598 ppb		-0.02
Spiked Amount 2.000			Recovery	= 214.300%		
Target Compounds						Qvalue
3) Naphthalene	6.12	128	7897	4.09790 ppb		99
4) 2-Methylnaphthalene	6.92	142	4416	4.46897 ppb		85
5) 1-Methylnaphthalene	7.01	142	5125	4.49316 ppb		84
8) Acenaphthylene	7.94	152	6939	4.51874 ppb		99
9) Acenaphthene	8.13	154	4126	4.69470 ppb		98
10) Fluorene	8.75	166	4635	4.81991 ppb		100
12) Phenanthrene	9.86	178	6322	4.92533 ppb		98
13) Anthracene	9.93	178	6669	5.11711 ppb		95
14) Fluoranthene	11.25	202	10522	4.72534 ppb		94
16) Pyrene	11.50	202	11098	4.39689 ppb	#	90
18) Benz (a) anthracene	12.91	228	7392	4.44608 ppb		99
19) Chrysene	12.95	228	10020	4.50536 ppb		97
20) Indeno (1,2,3-cd) pyrene	16.10	276	7590	4.40352 ppb		94
22) Benzo (b) fluoranthene	14.12	252	7498	4.60344 ppb	#	94
23) Benzo (k) fluoranthene	14.14	252	9123	5.41215 ppb		99
24) Benzo (a) pyrene	14.50	252	7129	4.47416 ppb		94
25) Dibenz (a,h) anthracene	16.09	278	5912	4.41880 ppb		99
26) Benzo (g,h,i) perylene	16.55	276	6603	4.68077 ppb		98

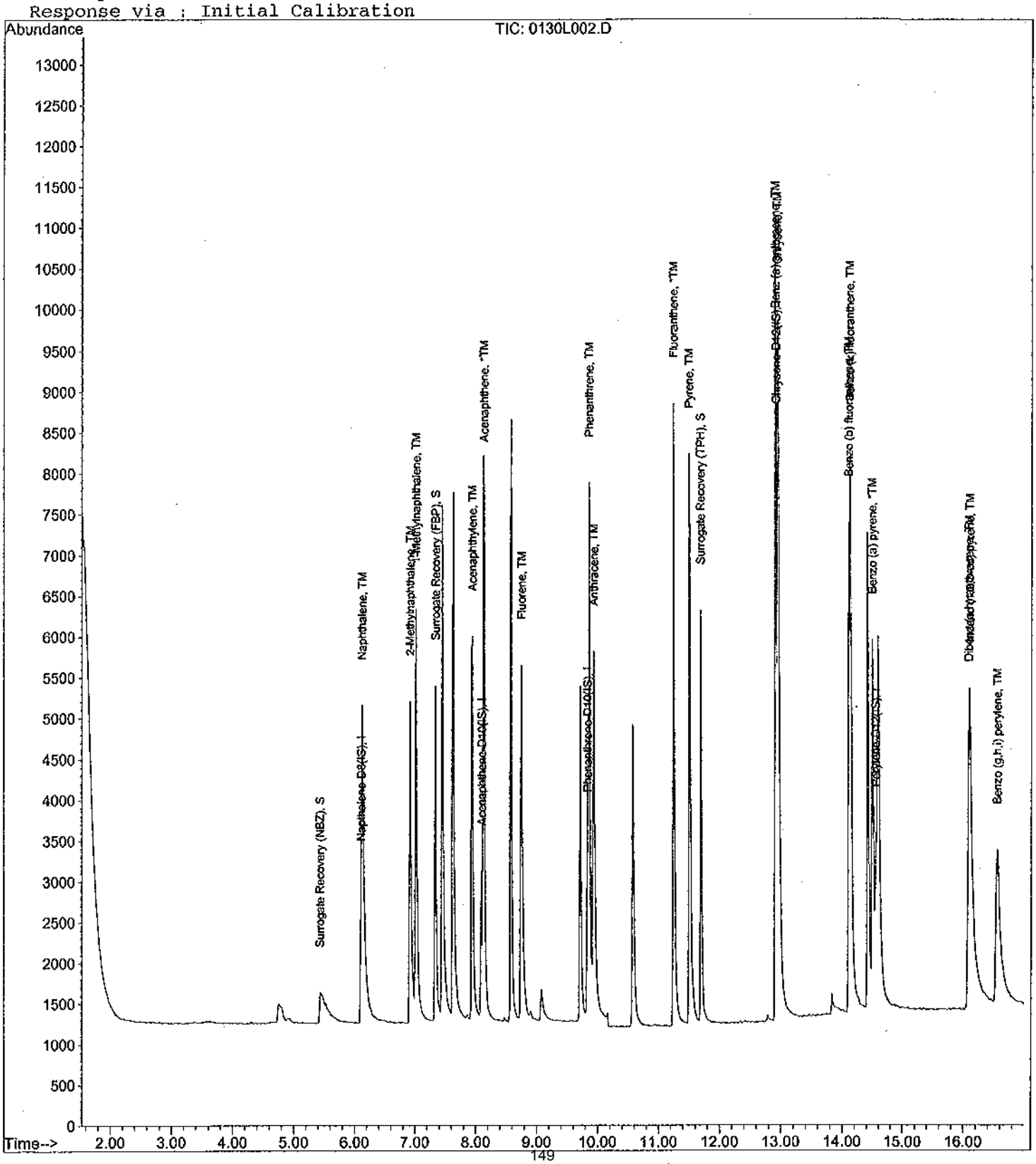
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0130L002.D Vial: 2
Acq On : 30 Jan 12 18:36 Operator: LF
Sample : 5.0ug/ml PAH 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 3 15:19 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Raw Data

Method Blank
EPA 8270D SIM

Blank Name/QCG: **120127W-53434 - 163643**
Batch ID: #SIMHC-120127A

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	01/27/12	01/30/12
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	01/27/12	01/30/12
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	01/27/12	01/30/12
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	01/27/12	01/30/12
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	01/27/12	01/30/12
BLANK	SURROGATE: 2-FLUORBIPHENY	51.7	50-110			%	01/27/12	01/30/12
BLANK	SURROGATE: NITROBENZENE-	58.5	40-110			%	01/27/12	01/30/12
BLANK	SURROGATE: TERPHENYL-D14 (	53.4	50-135			%	01/27/12	01/30/12

Quant Method: SIM2.M
Run #: 0130L003
Instrument: Linus
Sequence: L111027
Initials: LF

GC SC-Blank-REG MDLs
Printed: 02/06/12 12:36:54 PM

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0130L003.D Vial: 3
Acq On : 30 Jan 12 19:01 Operator: LF
Sample : 120127A BLK 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 3 15:20 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.12	136	2319	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.10	164	976	2.50000 ppb	-0.01
11) Phenanthrene-D10(IS)	9.86	188	2166	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.95	240	3024	2.50000 ppb	0.02
21) Perylene-D12(IS)	14.59	264	2283	2.50000 ppb	0.04
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.49	82	486	1.17017 ppb	0.02
Spiked Amount 2.000			Recovery = 58.500%		
7) Surrogate Recovery (FBP)	7.36	172	900	1.03440 ppb	0.01
Spiked Amount 2.000			Recovery = 51.700%		
17) Surrogate Recovery (TPH)	11.70	244	1390	1.06748 ppb	-0.01
Spiked Amount 2.000			Recovery = 53.350%		

Target Compounds Qvalue

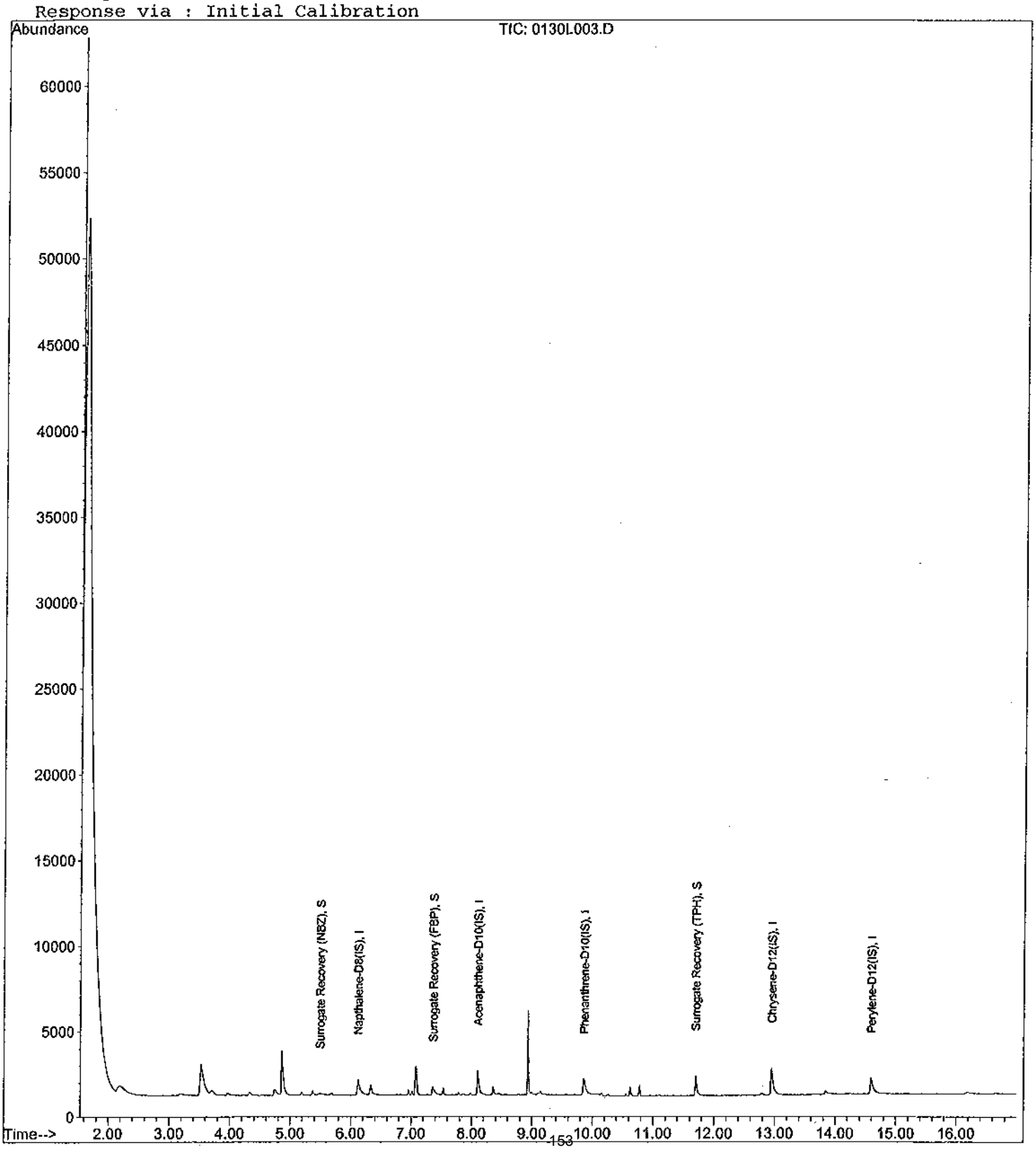
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0130L003.D Vial: 3
Acq On : 30 Jan 12 19:01 Operator: LF
Sample : 120127A BLK 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 3 15:20 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Feb 16 14:18:35 2012
Response via : Initial Calibration



Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: **120127W-53434 LCS - 163643**
Batch ID: #SIMHC-120127A

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	2.64	66.0	45-105
2-METHYLNAPHTHALENE	4.00	2.50	62.5	45-105
ACENAPHTHENE	4.00	2.68	67.0	45-110
ACENAPHTHYLENE	4.00	2.63	65.8	50-105
ANTHRACENE	4.00	2.82	70.5	55-110
BENZO(A)ANTHRACENE	4.00	2.44	61.0	55-110
BENZO(A)PYRENE	4.00	2.69	67.3	55-110
BENZO(B)FLUORANTHENE	4.00	2.26	56.5	45-120
BENZO(GHI)PERYLENE	4.00	2.59	64.8	40-125
BENZO(K)FLUORANTHENE	4.00	3.86	96.5	45-125
CHRYSENE	4.00	3.06	76.5	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.38	59.5	40-125
FLUORANTHENE	4.00	2.99	74.8	55-115
FLUORENE	4.00	3.10	77.5	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.58	64.5	45-125
NAPHTHALENE	4.00	2.47	61.8	40-100
PHENANTHRENE	4.00	2.72	68.0	50-115
PYRENE	4.00	2.70	67.5	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.13	56.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.27	63.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.18	59.0	50-135

Comments:

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	01/27/12
Analysis Date :	01/30/12
Instrument :	Linus
Run :	0130L004
Initials :	LF

Printed: 02/06/12 12:36:55 PM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0130L004.D Vial: 4
Acq On : 30 Jan 12 19:27 Operator: LF
Sample : 120127A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 3 15:20 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.11	136	1952	2.50000 ppb		-0.01
6) Acenaphthene-D10(IS)	8.10	164	953	2.50000 ppb		-0.01
11) Phenanthrene-D10(IS)	9.84	188	2053	2.50000 ppb		-0.01
15) Chrysene-D12(IS)	12.93	240	2858	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.57	264	2324	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.48	82	445	1.27290 ppb		0.01
Spiked Amount 2.000			Recovery = 63.650%			
7) Surrogate Recovery (FBP)	7.35	172	957	1.12646 ppb		0.00
Spiked Amount 2.000			Recovery = 56.300%			
17) Surrogate Recovery (TPH)	11.70	244	1449	1.17743 ppb		-0.01
Spiked Amount 2.000			Recovery = 58.850%			
Target Compounds						Qvalue
3) Naphthalene	6.13	128	3364	2.47359 ppb		99
4) 2-Methylnaphthalene	6.93	142	1742	2.49804 ppb		83
5) 1-Methylnaphthalene	7.02	142	2127	2.64240 ppb		84
8) Acenaphthylene	7.94	152	3341	2.63457 ppb		99
9) Acenaphthene	8.13	154	1944	2.67847 ppb		95
10) Fluorene	8.75	166	2462	3.10020 ppb		99
12) Phenanthrene	9.86	178	3594	2.71954 ppb		99
13) Anthracene	9.93	178	3788	2.82299 ppb		97
14) Fluoranthene	11.26	202	6857	2.99092 ppb		99
16) Pyrene	11.51	202	6781	2.69595 ppb		99
18) Benz (a) anthracene	12.91	228	4048	2.44328 ppb		96
19) Chrysene	12.96	228	6776	3.05740 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.12	276	4425	2.57625 ppb	#	95
22) Benzo (b) fluoranthene	14.12	252	3702	2.26113 ppb		96
23) Benzo (k) fluoranthene	14.15	252	6542	3.86095 ppb		97
24) Benzo (a) pyrene	14.51	252	4304	2.68724 ppb	#	93
25) Dibenz (a,h) anthracene	16.11	278	3204	2.38240 ppb		96
26) Benzo (g,h,i) perylene	16.58	276	3678	2.59382 ppb		99

$\frac{3364 \times 2.5}{1952 \times 1.742} = 2.47$ LF 2/17/12

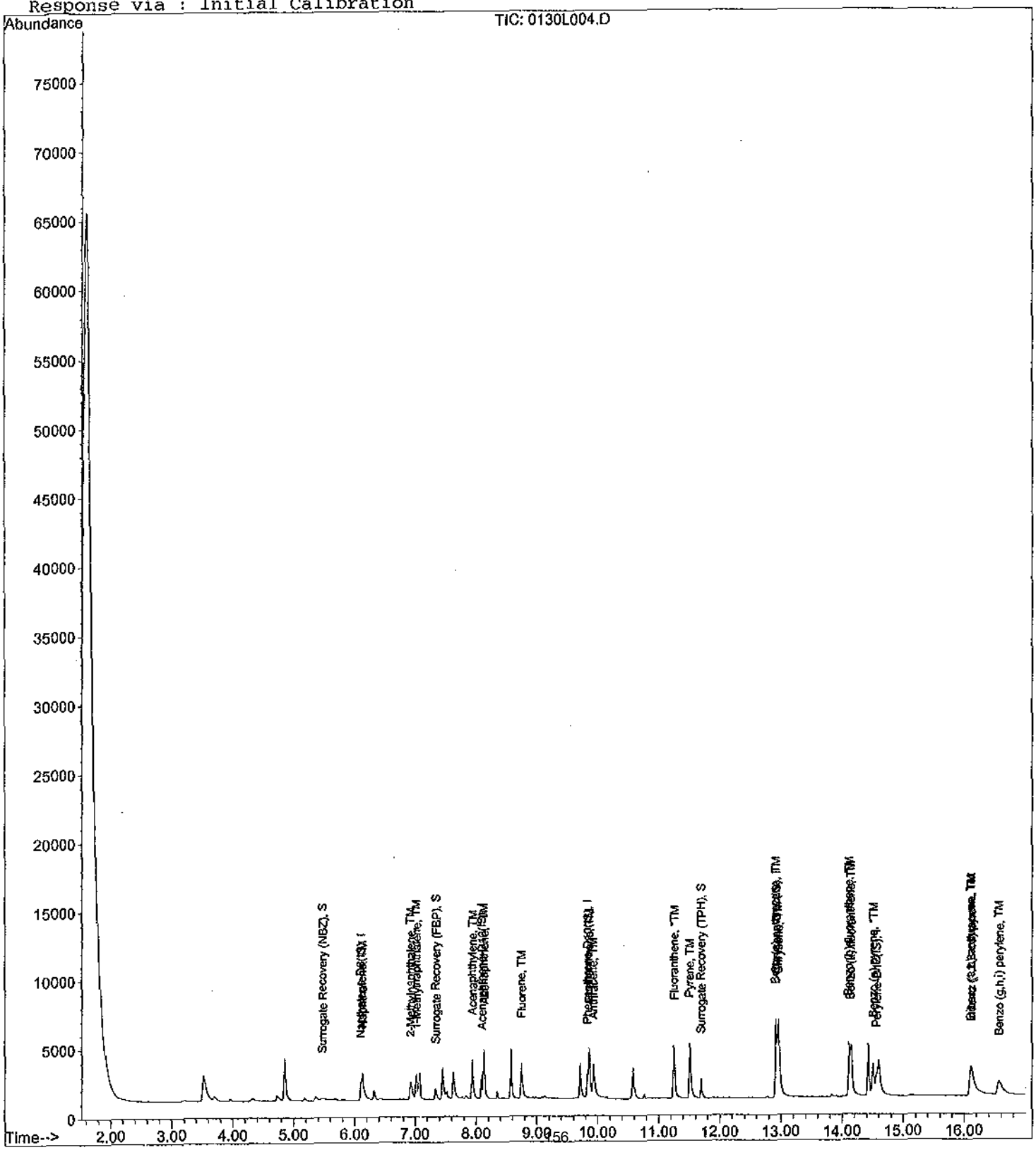
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0130L004.D Vial: 4
Acq On : 30 Jan 12 19:27 Operator: LF
Sample : 120127A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 3 15:20 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Feb 16 14:18:35 2012
Response via : Initial Calibration

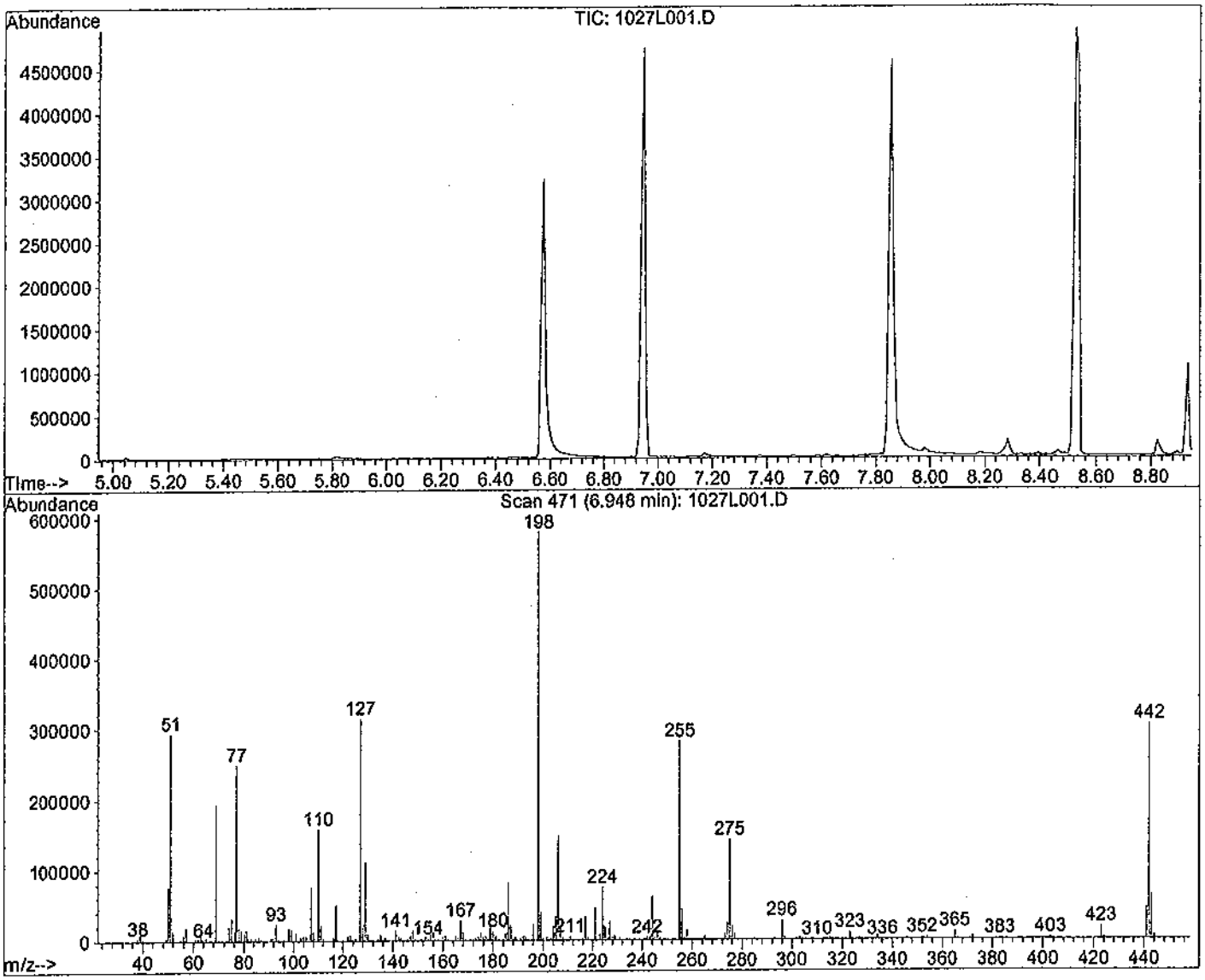


DFTPP

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



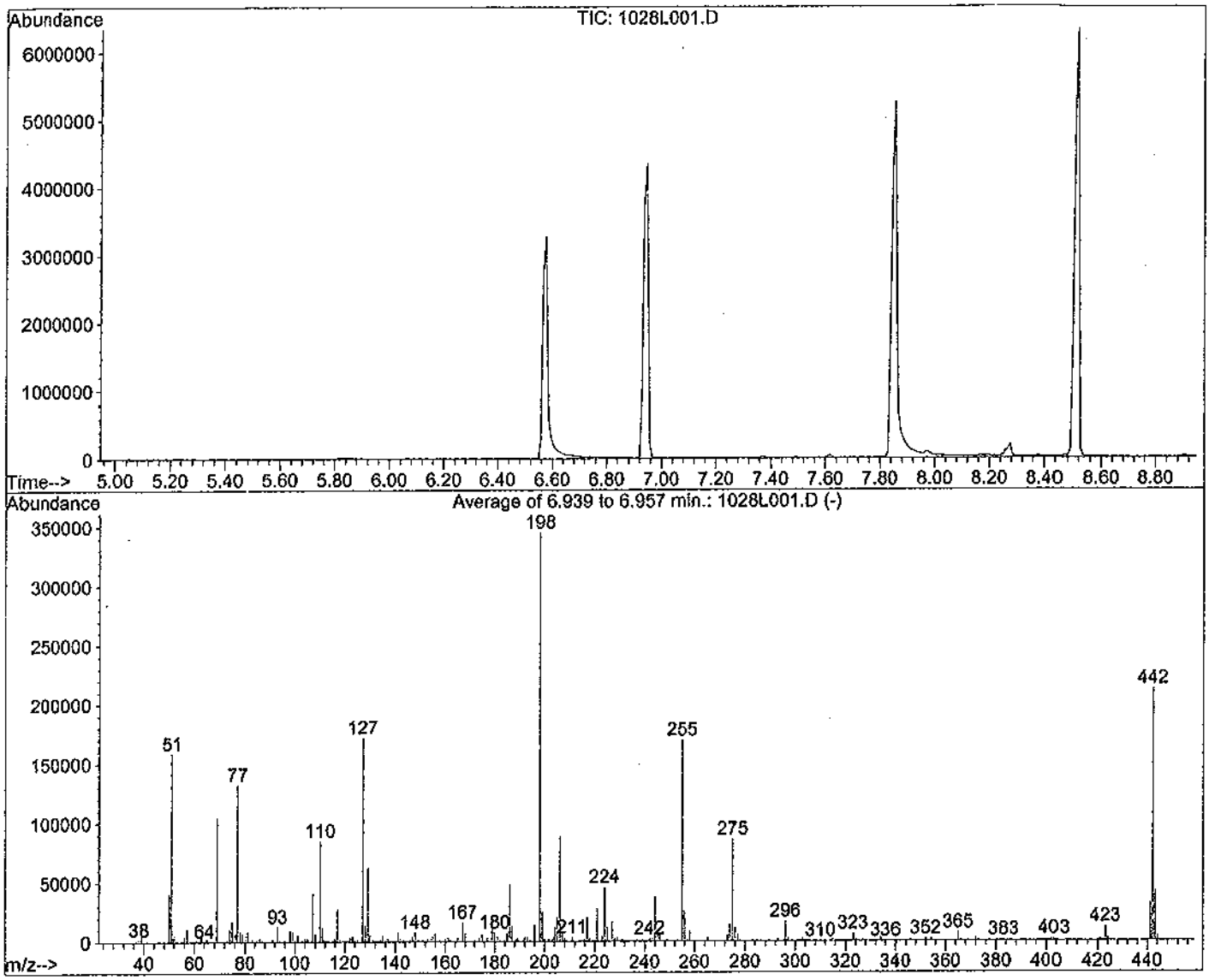
Spectrum Information: Scan 471

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

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

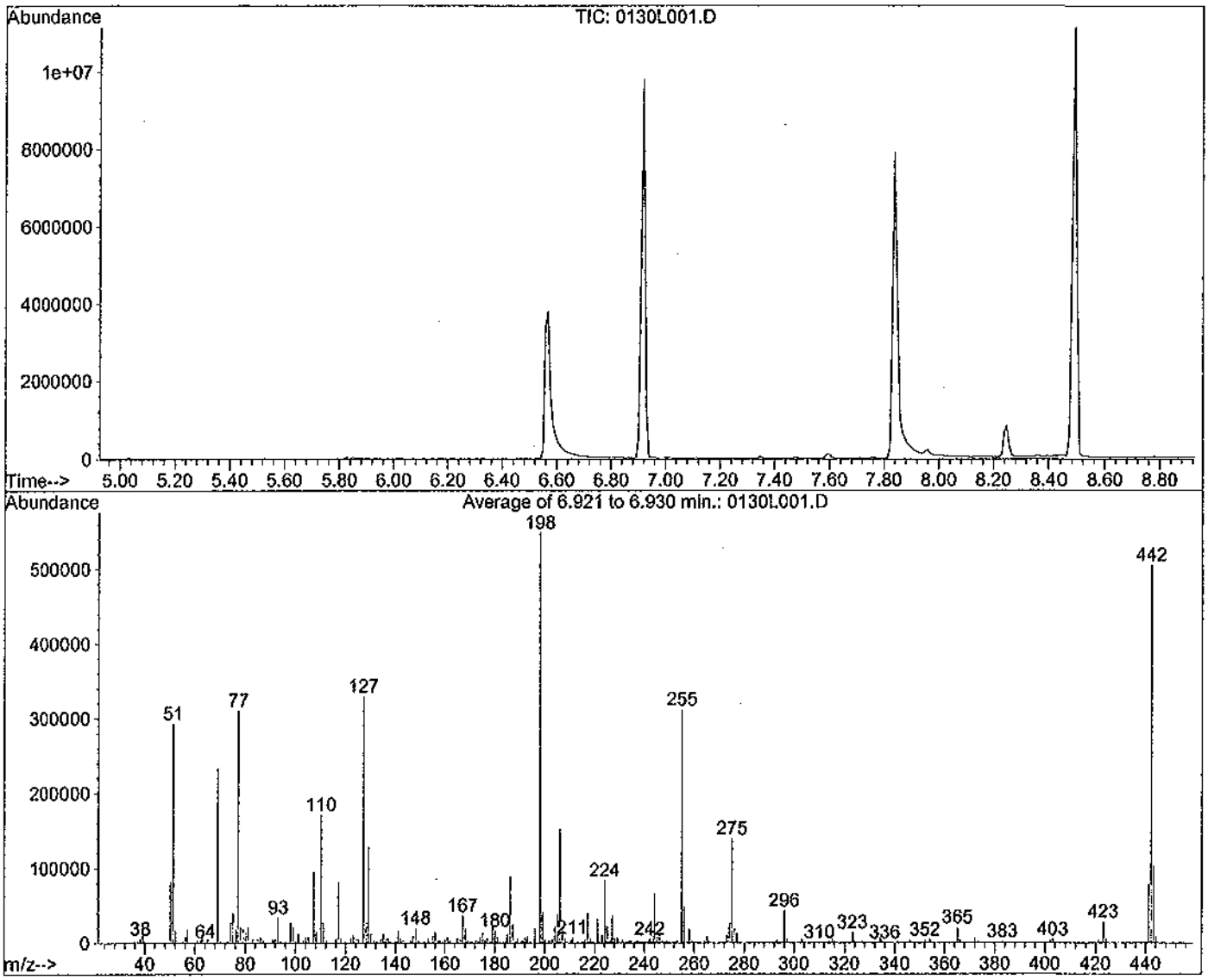


Spectrum Information: Average of 6.939 to 6.957 min.

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\0130L001.D Vial: 1
Acq On : 30 Jan 12 18:18 Operator: LF
Sample : SVTUNE 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

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



Spectrum Information: Average of 6.921 to 6.930 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	53.3	292572	PASS
68	69	0.00	2	0.0	109	PASS
70	69	0.00	2	0.7	1627	PASS
127	198	40	60	59.9	328990	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	549092	PASS
199	198	5	9	7.3	40068	PASS
275	198	10	30	25.3	139108	PASS
365	198	1	100	3.7	20583	PASS
441	443	0.01	100	75.2	77512	PASS
442	198	40	150	92.0	505248	PASS
443	442	17	23	20.4	103096	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																	VF
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	169535-27570		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						VF
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 1/20/11

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
31001-42
Lot # 167766 Storage 5-10 Degrees C Expiry 4/20/13
Solv: Methylene Chloride
RAID ready, not known exposure. Made in the USA

exp 1/25/12

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

VF 1/25/11

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
31001-42
Lot # 167766 Storage 5-10 Degrees C Expiry 4/20/13
Solv: Methylene Chloride
RAID ready, not known exposure. Made in the USA

exp 1/25/12

8270 Internal Standard
Lot #: 167766 - 28147

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

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
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 6/29/11

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 STANDA

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 #	ug/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

Surr IS exp 1/25/12
1500µL EM Science MC Lot #47080

UF 3/28/11

8270 BN:A (200:400) Surrogate Solution, 1 ml

o2si smart solutions 310004-17 Storage: </= -10 Degrees C

Made in USA Lot No: 160538 Solvent: Methylene Chloride

Exp: 3/28/2011

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 3/28/11

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
		Conc.		Date												
Supplier	ID #	µg/mL	Lot #	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 ULTRA 1 mL

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

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

310780-01

Lot # 170253 Storage <-10 Degrees C Expiry 3/3/13

Solvt Methylene Chloride

UF exp 4/20/12

BA

8270D PAH SIM

Lot #: 170253 - 28485

Rec: 3/10/11 MFR exp. 3/3/2013

UF

8270D PAH SIM Solution, Second Source, 200 mg/L, 1 ml

310780-01-SS

Lot # 170256 Storage <-10 Degrees C Expiry 3/3/13

Solvt Methylene Chloride

exp 4/20/12

8270D PAH SIM (SS)

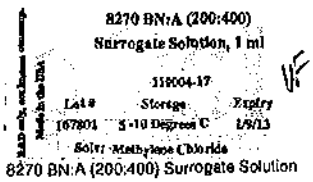
Lot #: 170256 - 28487

BA

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			

8/22/11



exp 8/22/12

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

8/22/11

PREP DATE:	08-22-11												
8270 STANDARD CURVE													
Exp:	08-29-11					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		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

8/22/11

PREP DATE:	08-22-11					
8270 Second Source (88) 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		47186			75
					Final Vol.	100

8/9/11

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
		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		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

PREP DATE:	09-21-11						
SIM 8270 Second Source (5µg/mL)							
Exp:	10-05-11						
				Conc.	Date	CODE:	
Supplier	ID #		Lot #	µg/mL	Code	Exp.Date	µL
	8270D PAH SIM (SS)		170256-28487	200	04/20/11	04-20-12	5
	MeCl2			Lot#47186			195
					Final Volume		200

8270 BN Solution 14-4, 2,000 mg/L, 1 ml

Cat. No: 110391-01
Lot No: 158119
8270BN Solution 14-4
Lot #: 158119 - 28021
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

8270 BN Solution 14-3, 2,000 mg/L, 1 ml

Cat. No: 110392-01
Lot No: 158120
8270BN Solution 14-3
Lot #: 158120 - 28023
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

8270 Acid Solution 4-6, 2,000 mg/L, 1 ml

Cat. No: 110393-01
Lot No: 158121
8270B Acid Solution 4-6
Lot #: 158121 - 28025
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

TCL Hazardous Substances Solution 2, 2,000 mg/L, 1 ml

Cat. No: 110394-01
Lot No: 158122
TCL Hzd. Soln. 2
Lot #: 158122 - 28018
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

PAH Solution 17-3, 2,000 mg/L, 1 ml

Cat. No: 116070-02
Lot No: 158123
PAH Solution
Lot #: 158123 - 28027
Rec: 12/16/10 MFR exp. 07/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

8270 Acid Solution 13-4, 2,000 mg/L, 1 ml

Cat. No: 110396-01
Lot No: 158124
8270 Acid Solution 13-4
Lot #: 158124 - 28029
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

10/11/11

8270 BN Solution 4-21, 2,000 mg/L, 1 ml

o2si

Cat. No: 110395-01
Lot No: 158125

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

8270BN Solution 4-21
Lot #: 158125 - 28031
Rec: 12/16/10 MFR exp. 04/17/13

opened: _____

UF exp 10/12/11

10/11/11

8270 11 Compound Custom Mix, 200:2,000 mg/L, 1 ml

o2si

Cat. No: 110397-01
Lot No: 158127

Exp: 4/12/2012
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

8270 11 Compound Mix
Lot #: 158127 - 28033
Rec: 12/16/10 MFR exp. 04/12/12

opened: _____

UF exp 4/12/12

10/11/11

Atrazine Solution, 1,000 mg/L, 1 ml

o2si

Cat. No: 010337-01
Lot No: 158126

Exp: 4/12/2012
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

Atrazine
Lot #: 158126 - 28019
Rec: 12/16/10 MFR exp. 04/12/12

opened: _____

UF exp 4/12/12

10/11/11

PREP DATE:	10-11-11						
8270C Second Source Stock Standard							UF
Exp:	04-12-12						
		Conc.		Date	CODE:	P	
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL	
O2SI	110391-01	2000	158119-28021	10-11-11	04-17-13	1000	
O2SI	110392-01	2000	158120-28023	10-11-11	04-17-13	1000	
O2SI	110393-01	2000	158121-28025	10-11-11	04-17-13	1000	
O2SI	110394-01	2000	158122-28018	10-11-11	04-17-13	1000	
O2SI	116070-02	2000	158123-28027	10-11-11	04-17-13	1000	
O2SI	110395-01	2000	158125-28031	10-11-11	04-17-13	1000	
O2SI	110396-01	2000	158124-28029	10-11-11	04-17-13	1000	
O2SI	110397-01	2000	158127-28033	10-11-11	04-12-12	1000	
O2SI	010337-01	1000	158126-28019	10-11-11	04-12-12	1000	
EM Science	MeCl2		47186			1000	
					Final Vol	10000	

10/11/11

PREP DATE:	10-11-11													UF
8270 STANDARD CURVE														
Exp:	10-18-11						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		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

10/11/11

PREP DATE:	10-11-11						UF
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	

10/11/11

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

For Research Use Only

50µg/mL SV Tune Mix
1ml of GCM-160-1 opened 10/11/11 into 19mls EM Science MC Lot#47186

165

10/18/11

Part #: 10001 Laboratory Use Only - See MSDS
Lot #: 042910 Exp: 042913 Storage 0 °C

CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in methy
ABSOLUTE STANDARD

CLP Semi-Volatiles Base/Neutrals Mix #1
Lot # 042910 - 28440
Rec. 3/8/11 MFR exp. 4/29/2013

exp 10/18/12

10/18/11

Part #: 10001 Laboratory Use Only - See MSDS
Lot #: 042910 Exp: 042913 Storage 0 °C

CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in m
ABSOLUTE STANDA

Lot #: 042910 - 29085
Rec: 8/4/11 MFR exp. 04/29/13

exp 10/18/12

10/18/11

Part #: 10002 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073112 Storage 4 °C

CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in methyle
ABSOLUTE STANDARDS

CLP Semi-Volatiles Base/Neutrals Mix #2
Lot #: 073109 - 28446
Rec: 3/8/11 MFR exp. 7/31/2012

exp 7/31/12

10/18/11

Part #: 10002 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073112 Storage 4 °C

CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in met
ABSOLUTE STANDAF

CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 29090
Rec: 8/4/11 MFR exp. 07/31/12

exp 7/31/12

10/18/11

Part #: 10004 Laboratory Use Only - See MSDS
Lot #: 101509 Exp: 101514 Storage 4 °C

CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in methyl
ABSOLUTE STANDARDS

CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 28453
Rec: 3/8/11 MFR exp. 10/15/201

exp 10/18/12

10/18/11

Part #: 10004 Laboratory Use Only - See MSDS
Lot #: 101509 Exp: 101514 Storage 4 °C

CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in met
ABSOLUTE STANDAR

CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 29095
Rec: 8/4/11 MFR exp. 10/15/14

exp 10/18/12

10/18/11

Part #: 10005 Laboratory Use Only - See MSDS
Lot #: 061209 Exp: 061214 Storage 4 °C

CLP Semi-Volatiles Toxic Substances #2
8 components
2000 ug/mL in methy
ABSOLUTE STANDARD

CLP Semi-Volatiles Toxic Substances #2
Lot #: 061209 - 28458
Rec: 3/8/11 MFR exp. 6/12/2014

exp 10/18/12

10/18/11

Part #: 10005 Laboratory Use Only - See MSDS
Lot #: 121208 Exp: 121213 Storage 4 °C

CLP Semi-Volatiles Toxic Substances #2
8 components
2000 ug/mL in met
ABSOLUTE STANDAR

CLP Semi-Volatiles Toxic Substances #2
Lot #: 121208 - 29100
Rec: 8/4/11 MFR exp. 12/12/13

exp 10/18/12

Part #: 10006 Laboratory Use Only - See MSDS
Lot #: 120810 Exp: 120813 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in methar
ABSOLUTE STANDARD
CLP Semi-Volatiles - Benzidines
Lot #: 120810 - 28462
Rec: 3/8/11 MFR exp. 12/8/2013

exp 10/18/12

Part #: 10006 Laboratory Use Only - See MSDS
Lot #: 071211 Exp: 071214 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in meti
ABSOLUTE STANDAF
Lot #: 071211 - 29105
Rec: 8/4/11 MFR exp. 07/12/14

exp 10/18/12

Part #: 10007 Laboratory Use Only - See MSDS
Lot #: 100909 Exp: 100914 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components
2000 ug/mL in methy
ABSOLUTE STANDAR
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 28469
Rec: 3/8/11 MFR exp. 10/9/2014

exp 10/18/12

Part #: 10007 Laboratory Use Only - See MSDS
Lot #: 100909 Exp: 100914 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components
2000 ug/mL in met
ABSOLUTE STANDAR
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 29110
Rec: 8/4/11 MFR exp. 10/09/14

exp 10/18/12

Part #: 10018 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Pher
2000 ug/mL in methyl
ABSOLUTE STANDARD
CLP Semi-Volatiles Mix #8 - Phenols
Lot #: 073109 - 28410
Rec: 3/8/11 MFR exp. 7/31/2014

exp 10/18/12

Part #: 10018 Laboratory Use Only - See MSDS
Lot #: 062111 Exp: 062116 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Phe
2000 ug/mL in meth
ABSOLUTE STANDARI
EPA Method 8270A - Analytes Mix #8
Lot #: 062111 - 29115
Rec: 8/4/11 MFR exp. 06/21/16

exp 10/18/12

Part #: 70023 Laboratory Use Only - See MSDS
Lot #: 080310 Exp: 080315 Storage 4 °C
Atrazine
1000 ug/mL in aceto
ABSOLUTE STANDARI
Atrazine
Lot #: 080310 - 28416
Rec: 3/8/11 MFR exp. 8/13/2015

exp 10/18/12

Part #: 70023 Laboratory Use Only - See MSDS
Lot #: 031611 Exp: 031616 Storage 4 °C
Atrazine
1000 ug/mL in ace
ABSOLUTE STANDA
Atrazine
Lot #: 031611 - 29120
Rec: 8/4/11 MFR exp. 03/16/16

exp 10/18/12

10/18/11

Part #: 82705
Lot #: 121010
Laboratory Use Only - See MSDS
Exp: 121013 Storage 4 °C
EPA Method 8270A - Mix #11
4 components
2000 ug/mL in aceto
ABSOLUTE STANDAR
EPA Method 8270A - Mix #18
Lot #: 121010 - 28428
Rec: 3/8/11 MFR exp. 12/10/201

exp 10/18/12

10/18/11

Part #: 82705
Lot #: 041911
Laboratory Use Only - See MSDS
Exp: 041914 Storage 4 °C
EPA Method 8270A - Mix #11
4 components
2000 ug/mL in aceto
ABSOLUTE STANDAR
Lot #: 041911 - 29125
Rec: 8/4/11 MFR exp. 04/19/14

exp 10/18/12

10/18/11

Part #: 94552
Lot #: 030411
Laboratory Use Only - See MSDS
Exp: 030414 Storage 4 °C
Semi-Volatile Standard
11 components
Varied ug/mL in met
ABSOLUTE STANDARI
Semi-Volatile Standard
Lot #: 030411 - 28423
Rec: 3/8/11 MFR exp. 3/4/2014

exp 10/18/12

10/18/11

Part #: 94552
Lot #: 030411
Laboratory Use Only - See MSDS
Exp: 030414 Storage 4 °C
Semi-Volatile Standa
11 components
Varied ug/mL in met
ABSOLUTE STANDARD
Semi-Volatile Standard
Lot #: 030411 - 29130
Rec: 8/4/11 MFR exp. 03/04/14

exp 10/18/12

10/18/11

PREP DATE:	10-18-11					
8270C Stock/Spike Standard						
Exp:	04-18-12					
		Conc.		Date	CODE:	F
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
Absolute	10001	2000	042910-28440	10/18/11	04-29-13	1000
Absolute	10001	2000	042910-29085	10/18/11	04-29-13	1000
Absolute	10002	2000	073109-28446	10/18/11	07-31-12	1000
Absolute	10002	2000	073109-29090	10/18/11	07-31-12	1000
Absolute	10004	2000	101509-28453	10/18/11	10-15-14	1000
Absolute	10004	2000	101509-29095	10/18/11	10-15-14	1000
Absolute	10005	2000	061209-28458	10/18/11	06-12-14	1000
Absolute	10005	2000	121208-29100	10/18/11	12-12-13	1000
Absolute	10006	2000	120810-28462	10/18/11	12-08-13	1000
Absolute	10006	2000	071211-29105	10/18/11	07-12-14	1000
Absolute	10007	2000	100909-28469	10/18/11	10-09-14	1000
Absolute	10007	2000	100909-29110	10/18/11	10-09-14	1000
Absolute	10018	2000	073109-28410	10/18/11	07-31-14	1000
Absolute	10018	2000	062111-29115	10/18/11	06-21-16	1000
Absolute	70023	1000	080310-28416	10/18/11	08-03-15	1000
Absolute	70023	1000	031611-29120	10/18/11	03-16-16	1000
Absolute	82705	2000	121010-28428	10/18/11	12-10-13	1000
Absolute	82705	2000	041911-29125	10/18/11	04-19-14	1000
Absolute	94552	2000	030411-28423	10/18/11	03-04-14	1000
Absolute	94552	2000	030411-29130	10/18/11	03-04-14	1000
					Final Vol	20000

LF 10/18/11

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
115001-02
Lot # 167766 Storage 5-10 Degrees C. Expiry 4/20/13
Solv: Methylene Chloride
Made in the USA

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

LF

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
115001-02
Lot # 167766 Storage 5-10 Degrees C. Expiry 4/20/13
Solv: Methylene Chloride
Made in the USA

8270 Internal Standard
Lot #: 167766 - 28150
Rec: 1/20/11 MFR exp. 04/20/13

LF

exp 10/18/12

LF 10/27/11

GCM-150-1
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 Eur Science MC Lot# 47186.

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	120127A	Extraction Method	SEP004S	Units	mL

Spiked ID 1	SIM Spike 178987-29582		Surrogate ID 1	8270 SIM Surrogate 177982-29475	
Spiked ID 2			Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	no	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	02/06/12 0:00	

pH1	2	01/27/12 9:50:00 AM	Water Bath Temp Criteria	80 °C
pH2	14	7/27/12 11:00:00 AM		
pH3				

Spiked By: DL **Date** 01/27/12 **Witnessed By:** GH **Date** 01/27/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	120127A Blk				0.025	1 equip	1000 E-WB5	1	2/1	01/27/12 9:45	
2	120127A LCS-1		0.025	1	0.025	1 equip	1000 E-WB5	1	2/1	01/27/12 9:45	
3	AY53434	AY53434W06			0.025	1 equip	1030 E-WB5	1	2/1	01/27/12 9:45	66769-2 week rush -- Amber Liter
4	AY53436	AY53436W07			0.025	1 equip	1050 E-WB5	1	2/1	01/27/12 9:45	66769-2 week rush -- Amber Liter
5	AY53437	AY53437W08			0.025	1 equip	1030 E-WB5	1	2/1	01/27/12 9:45	66769-2 week rush -- Amber Liter
6	AY53438	AY53438W06			0.025	1 equip	1000 E-WB6	1	2/1	01/27/12 9:45	66769-2 week rush -- Amber Liter
7	AY53666	AY53666W06			0.025	1 equip	1000 E-WB6	1	2/1	01/27/12 9:45	66795-2 week rush -- Amber Liter
8	AY53667	AY53667W06			0.025	1 equip	1010 E-WB6	1	2/1	01/27/12 9:45	66795-2 week rush -- Amber Liter
9	AY53668	AY53668W04			0.025	1 equip	1050 E-WB6	1	2/1	01/27/12 9:45	66795-2 week rush -- Amber Liter
10	AY53671	AY53671W06			0.025	1 equip	1050 E-WB6	1	2/1	01/27/12 9:45	66796-2 week rush -- Amber Liter
11	AY53672	AY53672W06			0.025	1 equip	1050 E-WB6	1	2/1	01/27/12 9:45	66796-2 week rush -- Amber Liter
12	AY53673	AY53673W06			0.025	1 equip	1050 E-WB6	1	2/1	01/27/12 9:45	66796-2 week rush -- Amber Liter
13	AY53674	AY53674W08			0.025	1 equip	1050 E-WB6	1	2/1	01/27/12 9:45	66796-2 week rush -- Amber Liter
14	AY53675	AY53675W06			0.025	1 equip	1050 E-WB6	1	2/1	01/27/12 9:45	66796-2 week rush -- Amber Liter

DRA 1/30/12

Solvent and Lot#	
MC	EMD 51257
Na2SO4	2351C512
10N NaOH	11/28/11
1+1 Acid	12/02/11
A. Na2SO4	12/06/11

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	LF
Date	1/30/12
Time	1700
Refrigerator	Hobart

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL/ GH
Concentration	KY

Modified	01/27/12 9:30:55 AM

Reviewed By: DRA **Date** 01/30/12

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	1	0130L001.D	1	SVTUNE 10-27-11		30 Jan 12 18:18
13	2	0130L002.D	1	5.0ug/ml PAH 10-27-11		30 Jan 12 18:36
14	3	0130L003.D	1	120127A BLK 1/1000		30 Jan 12 19:01
15	4	0130L004.D	1	120127A LCS-1 1/1000		30 Jan 12 19:27
16	9	0130L009.D	1	AY53666W06 1/1000		30 Jan 12 21:34
17	10	0130L010.D	0.9901	AY53667W06 1/1010		30 Jan 12 21:59
18	11	0130L011.D	0.95238	AY53668W04 1/1050		30 Jan 12 22:24

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: **120127W-53807 - 163743**
Batch ID: #86RHB-120127AC

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	01/27/12	01/27/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/27/12	01/27/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/27/12	01/27/12
BLANK	1,2,4-TRICHLOROBENZENE	0.28 J	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	01/27/12	01/27/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	1,3-DICHLOROBENZENE	0.12 J	1.0	0.22	0.11	ug/L	01/27/12	01/27/12
BLANK	1,3-DICHLOROPROPENE, TOTA	0.36 U	1.0	0.36	0.18	ug/L	01/27/12	01/27/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/27/12	01/27/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/27/12	01/27/12
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/27/12	01/27/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/27/12	01/27/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/27/12	01/27/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/27/12	01/27/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/27/12	01/27/12
BLANK	HEXACHLOROBUTADIENE	0.26 J	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C09
Instrument: Chico
Sequence: C120125
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/09/12 11:37:21 AM

Method Blank
EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120127W-53807 - 163743**
Batch ID: #86RHB-120127AC

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	01/27/12	01/27/12
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	01/27/12	01/27/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/27/12	01/27/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	SURROGATE: 1,2-DICHLOROET	106	70-120			%	01/27/12	01/27/12
BLANK	SURROGATE: 4-BROMOFLUOR	99.1	75-120			%	01/27/12	01/27/12
BLANK	SURROGATE: DIBROMOFLUOR	102	85-115			%	01/27/12	01/27/12
BLANK	SURROGATE: TOLUENE-D8 (S)	103	85-120			%	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C09
Instrument: Chico
Sequence: C120125
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/09/12 11:37:21 AM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120131W-53809 - 163745**
Batch ID: #86RHB-120131AT

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	01/31/12	01/31/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/31/12	01/31/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/31/12	01/31/12
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	01/31/12	01/31/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	01/31/12	01/31/12
BLANK	1,3-DICHLOROPROPENE, TOTA	0.36 U	1.0	0.36	0.18	ug/L	01/31/12	01/31/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/31/12	01/31/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/31/12	01/31/12
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/31/12	01/31/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/31/12	01/31/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/31/12	01/31/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/31/12	01/31/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/31/12	01/31/12
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/31/12	01/31/12

Quant Method: TALLW.M
Run #: 0131T24
Instrument: Thor
Sequence: T120131
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/09/12 11:37:21 AM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120131W-53809 - 163745**
Batch ID: #86RHB-120131AT

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	01/31/12	01/31/12
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	01/31/12	01/31/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/31/12	01/31/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	SURROGATE: 1,2-DICHLOROET	96.9	70-120			%	01/31/12	01/31/12
BLANK	SURROGATE: 4-BROMOFLUOR	99.3	75-120			%	01/31/12	01/31/12
BLANK	SURROGATE: DIBROMOFLUOR	98.9	85-115			%	01/31/12	01/31/12
BLANK	SURROGATE: TOLUENE-D8 (S)	100	85-120			%	01/31/12	01/31/12

Quant Method: TALLW.M
Run #: 0131T24
Instrument: Thor
Sequence: T120131
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/09/12 11:37:21 AM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66795

Case No: 66795 Date Analyzed: 01/27/12

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
120127AC-LCS	Lab Control Spike	70-120	101		75-120	96.0	
120127AC-BLK	Blank	70-120	106		75-120	99.1	
AY53667	ES058	70-120	104		75-120	98.0	
AY53668	ES059	70-120	99.2		75-120	96.2	

Comments: Batch: #86RHB-120127AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66795

Case No: 66795 Date Analyzed: 01/27/12

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120127AC-LCS	Lab Control Spike	85-115	104		85-120	101	
120127AC-BLK	Blank	85-115	102		85-120	103	
AY53667	ES058	85-115	97.1		85-120	102	
AY53668	ES059	85-115	92.4		85-120	102	

Comments: Batch: #86RHB-120127AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66795

Case No: 66795 Date Analyzed: 01/31/12

Matrix: WATER Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120131AT-LCS	Lab Control Spike	70-120	99.0		75-120	103	
AY53669	TRIP BLANK	70-120	101		75-120	101	
AY53666	ES057	70-120	99.1		75-120	100	
120131AT-BLK	Blank	70-120	96.9		75-120	99.3	

Comments: Batch: #86RHB-120131AT

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66795

Case No: 66795 Date Analyzed: 01/31/12

Matrix: WATER Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120131AT-LCS	Lab Control Spike	85-115	98.0		85-120	97.8	
AY53669	TRIP BLANK	85-115	102		85-120	100	
AY53666	ES057	85-115	99.9		85-120	103	
120131AT-BLK	Blank	85-115	98.9		85-120	100	

Comments: Batch: #86RHB-120131AT

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120127W-53807 LCS - 163743**
Batch ID: #86RHB-120127AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	11.0	110	80-130
1,1,1-TRICHLOROETHANE	10.00	11.1	111	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.9	109	65-130
1,1,2-TRICHLOROETHANE	10.00	11.9	119	75-125
1,1-DICHLOROETHANE	10.00	11.6	116	70-135
1,1-DICHLOROETHENE	10.00	10.5	105	70-130
1,2,3-TRICHLOROPROPANE	10.00	8.84	88.4	75-125
1,2,4-TRICHLOROBENZENE	10.00	11.7	117	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	10.4	104	50-130
1,2-DIBROMOETHANE	10.00	10.3	103	70-130
1,2-DICHLOROBENZENE	10.00	10.6	106	70-120
1,2-DICHLOROETHANE	10.00	10.6	106	70-130
1,2-DICHLOROPROPANE	10.00	11.1	111	75-125
1,3-DICHLOROBENZENE	10.00	11.0	110	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	21.5	108	70-130
1,4-DICHLOROBENZENE	10.00	10.7	107	75-125
2-BUTANONE	10.00	9.46	94.6	30-150
4-METHYL-2-PENTANONE	10.00	9.44	94.4	60-135
ACETONE	10.00	10.7	107	40-140
BENZENE	10.00	11.1	111	80-120
BROMODICHLOROMETHANE	10.00	11.4	114	75-120
BROMOFORM	10.00	9.00	90.0	70-130
BROMOMETHANE	10.00	10.7	107	30-145
CARBON TETRACHLORIDE	10.00	10.4	104	65-140
CHLOROBENZENE	10.00	11.0	110	80-120
CHLORODIBROMOMETHANE	10.00	10.8	108	60-135

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	01/27/12
Analysis Date :	01/27/12
Instrument :	Chico
Run :	0127C03
Initials :	SV

Printed: 02/09/12 11:38:28 AM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120127W-53807 LCS - 163743**
Batch ID: #86RHB-120127AC

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	10.9	109	60-135
CHLOROFORM	10.00	11.5	115	65-135
CHLOROMETHANE	10.00	8.70	87.0	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.6	106	70-125
ETHYLBENZENE	10.00	11.0	110	75-125
GASOLINE	300	337	112	75-125
HEXACHLOROBUTADIENE	10.00	11.1	111	50-140
METHYL TERT-BUTYL ETHER	10.00	9.95	99.5	65-125
METHYLENE CHLORIDE	10.00	11.0	110	55-140
STYRENE	10.00	11.2	112	65-135
TETRACHLOROETHENE	10.00	11.6	116	45-150
TOLUENE	10.00	11.6	116	75-120
TRANS-1,2-DICHLOROETHENE	10.00	11.7	117	60-140
TRICHLOROETHENE	10.00	11.7	117	70-125
VINYL CHLORIDE	10.00	11.7	117	50-145
XYLENES (TOTAL)	30.0	34.2	114	80-120
SURROGATE: 1,2-DICHLOROETHANE-	22.9	23.2	101	70-120
SURROGATE: 4-BROMOFLUOROBENZ	26.8	25.7	96.0	75-120
SURROGATE: DIBROMOFLUOROMETH	24.1	25.2	104	85-115
SURROGATE: TOLUENE-D8 (S)	24.8	25.1	101	85-120

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	01/27/12
Analysis Date :	01/27/12
Instrument :	Chico
Run :	0127C03
Initials :	SV

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APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120131W-53809 LCS - 163745**
Batch ID: #86RHB-120131AT

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	10.0	100	80-130
1,1,1-TRICHLOROETHANE	10.00	9.94	99.4	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.1	101	65-130
1,1,2-TRICHLOROETHANE	10.00	10.1	101	75-125
1,1-DICHLOROETHANE	10.00	9.88	98.8	70-135
1,1-DICHLOROETHENE	10.00	10.2	102	70-130
1,2,3-TRICHLOROPROPANE	10.00	9.69	96.9	75-125
1,2,4-TRICHLOROBENZENE	10.00	9.71	97.1	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.48	84.8	50-130
1,2-DIBROMOETHANE	10.00	9.83	98.3	70-130
1,2-DICHLOROBENZENE	10.00	9.58	95.8	70-120
1,2-DICHLOROETHANE	10.00	9.93	99.3	70-130
1,2-DICHLOROPROPANE	10.00	9.88	98.8	75-125
1,3-DICHLOROBENZENE	10.00	9.62	96.2	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	20.0	100	70-130
1,4-DICHLOROBENZENE	10.00	9.55	95.5	75-125
2-BUTANONE	10.00	11.1	111	30-150
4-METHYL-2-PENTANONE	10.00	10.2	102	60-135
ACETONE	10.00	11.7	117	40-140
BENZENE	10.00	9.84	98.4	80-120
BROMODICHLOROMETHANE	10.00	9.88	98.8	75-120
BROMOFORM	10.00	10.5	105	70-130
BROMOMETHANE	10.00	8.46	84.6	30-145
CARBON TETRACHLORIDE	10.00	10.3	103	65-140
CHLOROBENZENE	10.00	9.84	98.4	80-120
CHLORODIBROMOMETHANE	10.00	9.84	98.4	60-135

Comments: _____

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	01/31/12
Analysis Date :	01/31/12
Instrument :	Thor
Run :	0131T17
Initials :	SV

Printed: 02/09/12 11:38:28 AM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120131W-53809 LCS - 163745**
Batch ID: #86RHB-120131AT

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	10.1	101	60-135
CHLOROFORM	10.00	9.81	98.1	65-135
CHLOROMETHANE	10.00	9.62	96.2	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.2	102	70-125
ETHYLBENZENE	10.00	9.97	99.7	75-125
GASOLINE	300	337	112	75-125
HEXACHLOROBUTADIENE	10.00	9.58	95.8	50-140
METHYL TERT-BUTYL ETHER	10.00	10.0	100	65-125
METHYLENE CHLORIDE	10.00	10.1	101	55-140
STYRENE	10.00	10.1	101	65-135
TETRACHLOROETHENE	10.00	10.0	100	45-150
TOLUENE	10.00	9.99	99.9	75-120
TRANS-1,2-DICHLOROETHENE	10.00	9.84	98.4	60-140
TRICHLOROETHENE	10.00	9.99	99.9	70-125
VINYL CHLORIDE	10.00	9.83	98.3	50-145
XYLENES (TOTAL)	30.0	30.3	101	80-120
SURROGATE: 1,2-DICHLOROETHANE-	30.9	30.6	99.0	70-120
SURROGATE: 4-BROMOFLUOROBENZ	33.2	34.0	103	75-120
SURROGATE: DIBROMOFLUOROMETH	32.7	32.0	98.0	85-115
SURROGATE: TOLUENE-D8 (S)	33.9	33.2	97.8	85-120

Comments:

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	01/31/12
Analysis Date :	01/31/12
Instrument :	Thor
Run :	0131T17
Initials :	SV

Printed: 02/09/12 11:38:28 AM

APPL Standard LCS

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66795

Case No: 66795 Date Analyzed: 01/27/12

Matrix: WATER Instrument: Chico

Blank ID: 120127AC-BLK Time Analyzed: 1501

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120127AC-LCS	Lab Control Spike	0127C03	01/27/12 1118
120127AC-BLK	Blank	0127C09	01/27/12 1501
AY53667	ES058	0127C13	01/27/12 1730
AY53668	ES059	0127C14	01/27/12 1807

Comments: Batch: #86RHB-120127AC

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66795

Case No: 66795 Date Analyzed: 01/31/12

Matrix: WATER Instrument: Thor

Blank ID: 120131AT-BLK Time Analyzed: 2100

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120131AT-LCS	Lab Control Spike	0131T17	01/31/12 1746
AY53669	TRIP BLANK	0131T22	01/31/12 2005
AY53666	ES057	0131T23	01/31/12 2032
120131AT-BLK	Blank	0131T24	01/31/12 2100

Comments: Batch: #86RHB-120131AT

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 66795
Matrix: Water
ID: 25ug/mL BFB Std. 01-12-12

SDG No: 66795
Date Analyzed: 01/27/12
Instrument: Chico
Time Analyzed: 9:32

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		10ug/L Vol Std 01-27	0127C02W.D	01/27/12 10:41
2	Lab Control Spike	120127A LCS-1WC	0127C03W.D	01/27/12 11:18
3	Blank	120127A BLK-1WC	0127C09W.D	01/27/12 15:01
4	ES058	AY53667W01	0127C13W.D	01/27/12 17:30
5	ES059	AY53668W01	0127C14W.D	01/27/12 18:07
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	17.4
75	30 - 60% of mass 95	44.7
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.7
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	92.9
175	5 - 9% of mass 174	7.3
176	95 - 101% of mass 174	99.4
177	5 - 9% of mass 176	6.5

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 66795
Matrix: Water
ID: 5ng- BFB STD 1-12-12

SDG No: 66795
Date Analyzed: 01/31/12
Instrument: Thor
Time Analyzed: 10:01

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Lab Control Spike	120131A LCS-1WT	0131T17W.D	01/31/12 17:46
2	TRIP BLANK	AY53669W02	0131T22W.D	01/31/12 20:05
3	ES057	AY53666W02	0131T23W.D	01/31/12 20:32
4	Blank	120131A BLK-1WT	0131T24W.D	01/31/12 21:00
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	18.3
75	30 - 60% of mass 95	49.2
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	7.4
173	0 - 2% of mass 174	1.0
174	50 - 100% of mass 95	90.4
175	5 - 9% of mass 174	7.4
176	95 - 101% of mass 174	99.5
177	5 - 9% of mass 176	6.5

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 66795
Matrix: Water
ID: 25ug/mL BFB Std. 01-12-12

SDG No: 66795
Date Analyzed: 01/27/12
Instrument: Chico
Time Analyzed: 9:32

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		CCV gas 300ug/L	0127C05W.D	01/27/12 12:32
2	Lab Control Spike	LCS gas 300ug/L	0127C06W.D	01/27/12 13:10
3	Blank	120127A BLK-1WC	0127C09W.D	01/27/12 15:01
4	TRIP BLANK	AY53669W01	0127C10W.D	01/27/12 15:38
5	ES057	AY53666W01	0127C12W.D	01/27/12 16:53
6	ES058	AY53667W01	0127C13W.D	01/27/12 17:30
7	ES059	AY53668W01	0127C14W.D	01/27/12 18:07
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	17.4
75	30 - 60% of mass 95	44.7
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.7
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	92.9
175	5 - 9% of mass 174	7.3
176	95 - 101% of mass 174	99.4
177	5 - 9% of mass 176	6.5

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66795

Lab File ID (Standard): 0125C11W.D Date Analyzed: 01/25/12

Instrument ID: Chico Time Analyzed: 19:44

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	572455	12.77	460544	17.96	244544	22.16
	UPPER LIMIT	1144910	13.27	921088	18.46	489088	22.66
	LOWER LIMIT	286228	12.27	230272	17.46	122272	21.66
	SAMPLE NO.						
01	10ug/L Vol Std 01-27-12	578666	12.78	469312	17.98	257152	22.17
02	120127A LCS-1WC	593908	12.78	495744	17.98	259520	22.17
03	120127A BLK-1WC	575259	12.79	477248	17.98	253632	22.18
04	AY53667W01	512570	12.79	422272	17.97	227392	22.18
05	AY53668W01	538766	12.78	432000	17.98	229888	22.18
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.: 66795

Lab File ID (Standard): 0131T08W.D Date Analyzed: 01/31/12

Instrument ID: Thor Time Analyzed: 13:37

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	702464	6.75	558464	9.89	303936	12.22
	UPPER LIMIT	1404928	7.25	1116928	10.39	607872	12.72
	LOWER LIMIT	351232	6.25	279232	9.39	151968	11.72
	SAMPLE NO.						
01	120131A LCS-1WT (SS)	721472	6.75	577472	9.89	323520	12.22
02	AY53669W02	683008	6.75	546368	9.89	275648	12.22
03	AY53666W02	697024	6.75	541568	9.89	275008	12.22
04	120131A BLK-1WT	683584	6.74	544384	9.89	266368	12.22
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.: 66795

Lab File ID (Standard): 0127C05W.D Date Analyzed: 01/27/12

Instrument ID: Chico Time Analyzed: 12:32

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	1173650	12.79	1400160	17.98	1488880	22.18
	UPPER LIMIT	2347300	13.29	2800320	18.48	2977760	22.68
	LOWER LIMIT	586825	12.29	700080	17.48	744440	21.68
	SAMPLE NO.						
01	CCV gas 300ug/L	1173650	12.79	1400160	17.98	1488880	22.18
02	LCS gas 300ug/L	1198130	12.79	1400450	17.98	1498630	22.18
03	120127A BLK-1WC	1109840	12.79	1312810	17.98	1350220	22.18
04	AY53669W01	1080800	12.79	1268750	17.98	1286000	22.18
05	AY53666W01	983127	12.79	1162320	17.97	1158210	22.18
06	AY53667W01	995124	12.79	1147970	17.97	1183270	22.17
07	AY53668W01	1041750	12.78	1153410	17.98	1217440	22.18
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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66795

Sample ID: ES057

APPL ID: AY53666

Sample Collection Date: 01/24/12

QCG: #86RHB-120131AT-163745

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	01/31/12	01/31/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/31/12	01/31/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/31/12	01/31/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	01/31/12	01/31/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	01/31/12	01/31/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/31/12	01/31/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/31/12	01/31/12
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/31/12	01/31/12
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/31/12	01/31/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/31/12	01/31/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/31/12	01/31/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/31/12	01/31/12
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	01/31/12	01/31/12

Quant Method: TALLW.M
Run #: 0131T23
Instrument: Thor
Sequence: T120131
Dilution Factor: 1
Initials: SV

Printed: 02/09/12 11:38:38 AM
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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66795

Sample ID: ES057

APPL ID: AY53666

Sample Collection Date: 01/24/12

QCG: #86RHB-120131AT-163745

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	01/31/12	01/31/12
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/31/12	01/31/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	99.1	70-120			%	01/31/12	01/31/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	100	75-120			%	01/31/12	01/31/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	99.9	85-115			%	01/31/12	01/31/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	103	85-120			%	01/31/12	01/31/12

Quant Method: TALLW.M
Run #: 0131T23
Instrument: Thor
Sequence: T120131
Dilution Factor: 1
Initials: SV

Printed: 02/09/12 11:38:38 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\THOR\DATA\T120131\0131T23W.D Vial: 23
Acq On : 31 Jan 12 20:32 Operator:
Sample : AY53666W02 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:14 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	697024	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	541568	25.00000	ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	275008	25.00000	ppb	0.00
System Monitoring Compounds						
31) Dibromofluoromethane(S)	5.96	111	326725	32.63665	ppb	0.00
Spiked Amount 32.661			Recovery = 99.926%			
36) 1,2-DCA-D4(S)	6.35	65	333177	30.63056	ppb	0.00
Spiked Amount 30.896			Recovery = 99.144%			
56) Toluene-D8(S)	8.45	98	1188091	34.79631	ppb	0.00
Spiked Amount 33.937			Recovery = 102.531%			
64) 4-Bromofluorobenzene(S)	11.06	95	427146	33.19878	ppb	0.00
Spiked Amount 33.154			Recovery = 100.136%			
Target Compounds						Qvalue

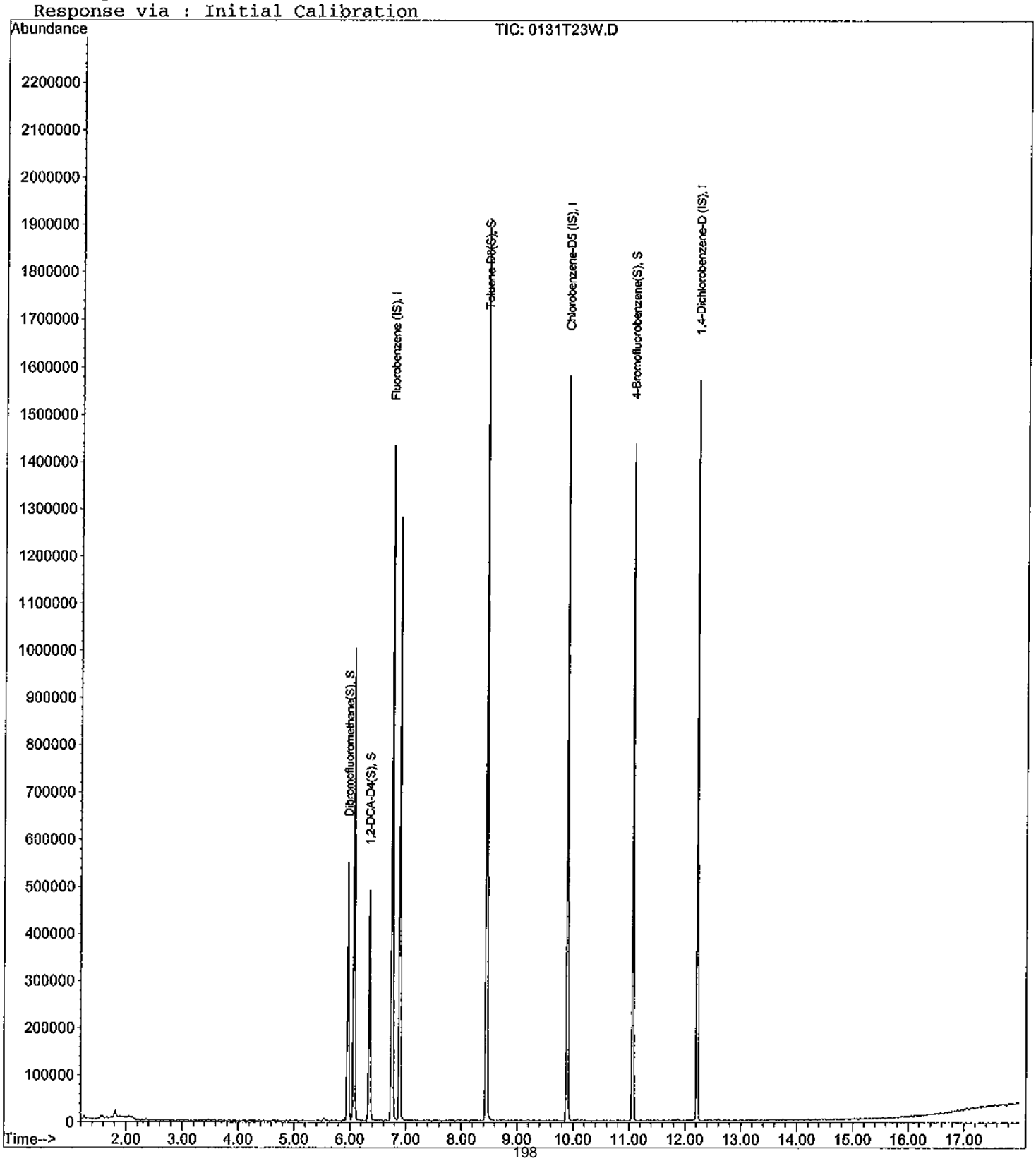
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T23W.D Vial: 23
Acq On : 31 Jan 12 20:32 Operator:
Sample : AY53666W02 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:14 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C12W.D Vial: 1
Acq On : 27 Jan 12 16:53 Operator: RS, ARS
Sample : AY53666W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:56 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	983127	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.97	TIC	1162316	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1158213	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	19073776m	31.12669	ppb	100

No gasoline pattern ##.
DB 2/7/2012

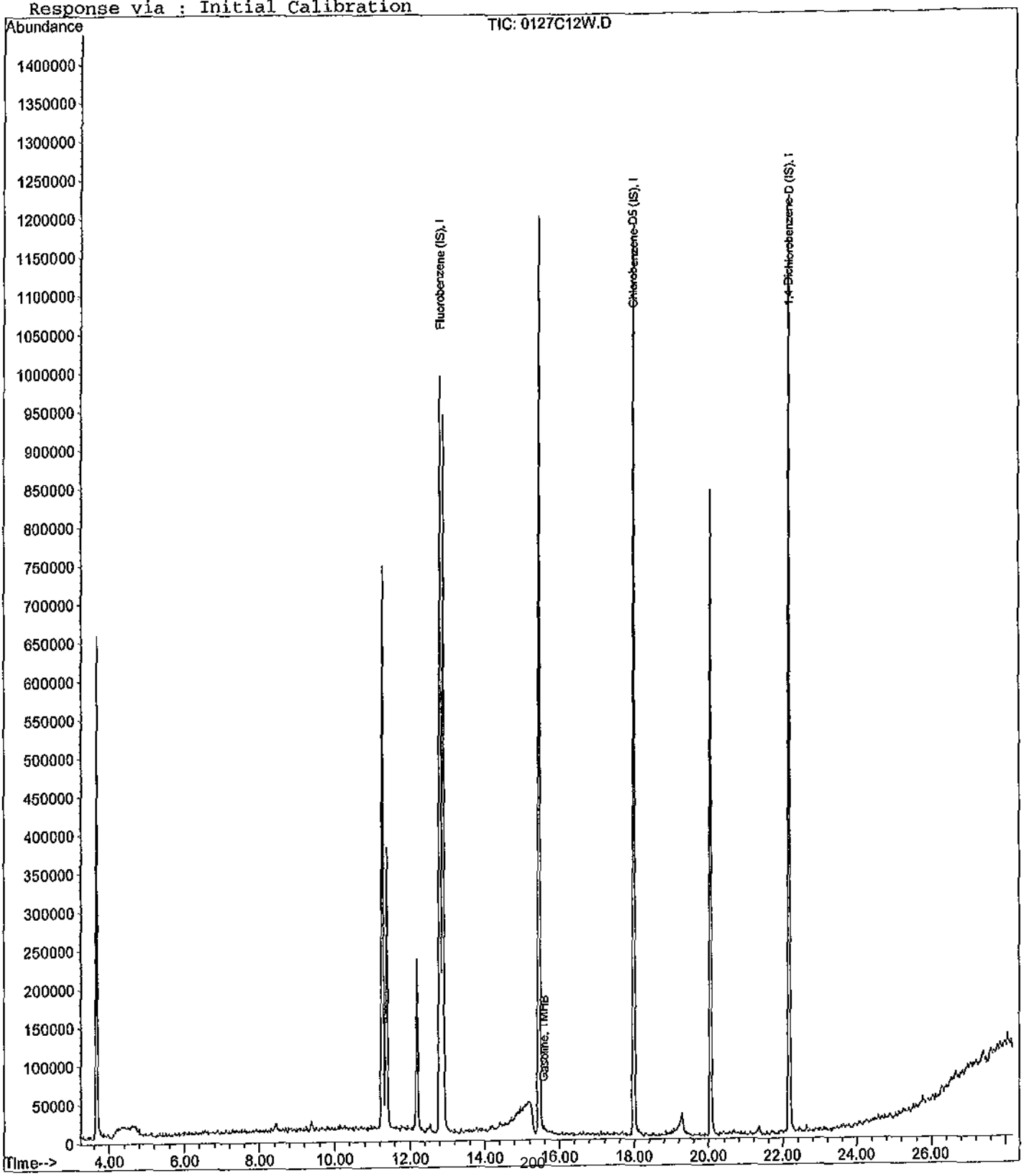
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C12W.D
Acq On : 27 Jan 12 16:53
Sample : AY53666W01
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:56 2012 Quant Results File: CGAS.RES

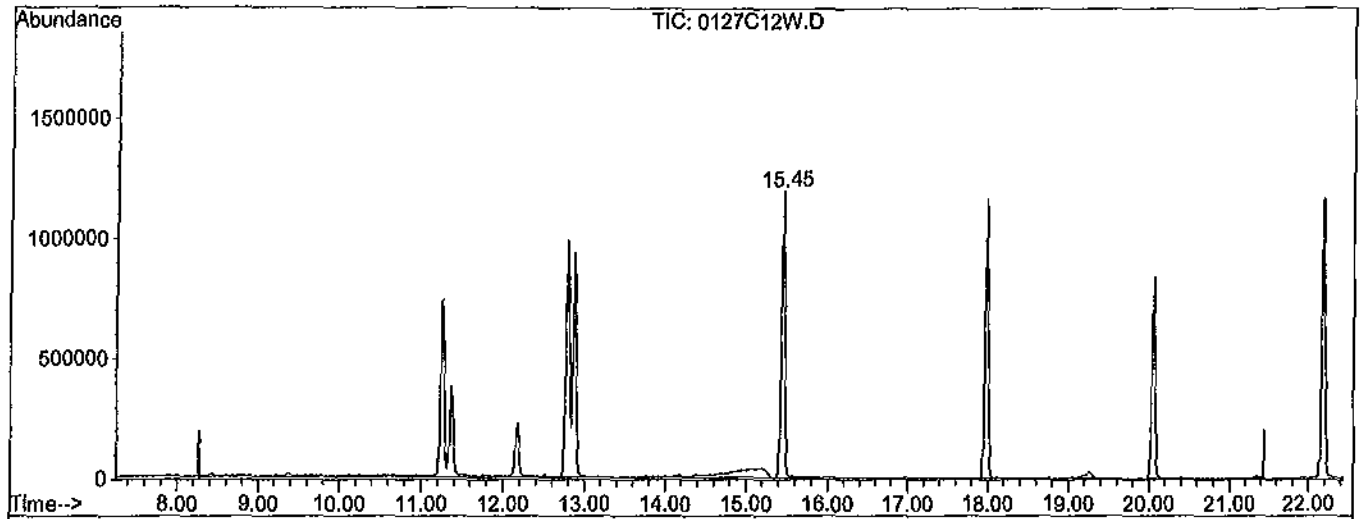
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

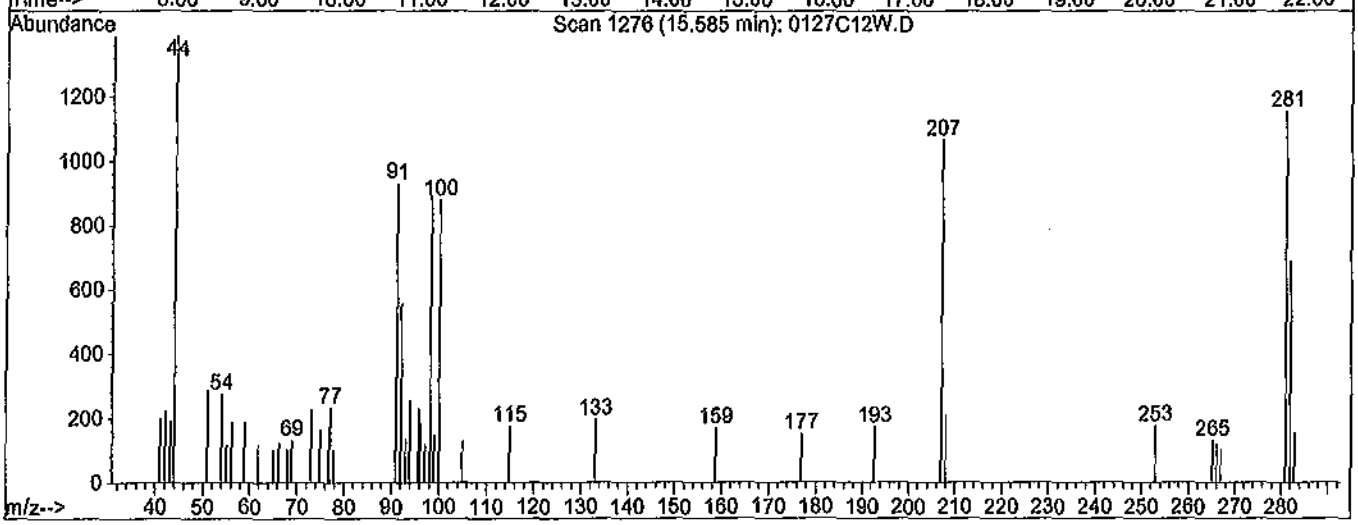


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C12W.D Vial: 1
Acq On : 27 Jan 12 16:53 Operator: RS, ARS
Sample : AY53666W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:56 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0127C12W.D

(2) Gasoline (TMHB)

15.58min 31.1267ppb m

response 18073776

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.59#
0.00	0.00	1.85#
0.00	0.00	0.00

EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen
Project: RED HILL/1022-015
Sample ID: ES058
Sample Collection Date: 01/24/12

ARF: 66795
APPL ID: AY53667
QCG: #86RHB-120127AC-163743

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	01/27/12	01/27/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/27/12	01/27/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/27/12	01/27/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	01/27/12	01/27/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	01/27/12	01/27/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/27/12	01/27/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/27/12	01/27/12
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/27/12	01/27/12
EPA 8260B	BENZENE	0.70 J	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/27/12	01/27/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/27/12	01/27/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/27/12	01/27/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/27/12	01/27/12
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C13
Instrument: Chico
Sequence: C120125
Dilution Factor: 1
Initials: SV

Printed: 02/09/12 11:38:38 AM
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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66795

Sample ID: ES058

APPL ID: AY53667

Sample Collection Date: 01/24/12

QCG: #86RHB-120127AC-163743

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	01/27/12	01/27/12
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/27/12	01/27/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	104	70-120			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	98.0	75-120			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	97.1	85-115			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	102	85-120			%	01/27/12	01/27/12

J = Estimated value.

Quant Method:	CALLW.M
Run #:	0127C13
Instrument:	Chico
Sequence:	C120125
Dilution Factor:	1
Initials:	SV

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C13W.D Vial: 1
Acq On : 27 Jan 12 17:30 Operator: RS, ARS
Sample : AY53667W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 31 11:54 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	96	512570	25.00000 ppb	0.02
54) Chlorobenzene-D5 (IS)	17.97	117	422272	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.18	152	227392	25.00000 ppb	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.37	111	319434	23.41065 ppb	0.01
Spiked Amount 24.119			Recovery = 97.064%		
37) 1,2-DCA-D4(S)	12.17	65	233700	23.73882 ppb	0.01
Spiked Amount 22.874			Recovery = 103.781%		
55) Toluene-D8(S)	15.45	98	1342252	25.15321 ppb	0.02
Spiked Amount 24.755			Recovery = 101.607%		
63) 4-Bromofluorobenzene(S)	20.05	95	489629	26.25375 ppb	0.02
Spiked Amount 26.777			Recovery = 98.046%		
Target Compounds					Qvalue
25) Vinyl Acetate	9.38	43	1857	0.84696 ppb	91
41) Benzene	12.45	78	29966	0.70119 ppb	95
95) Naphthalene	25.89	128	3873	0.17025 ppb	98

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

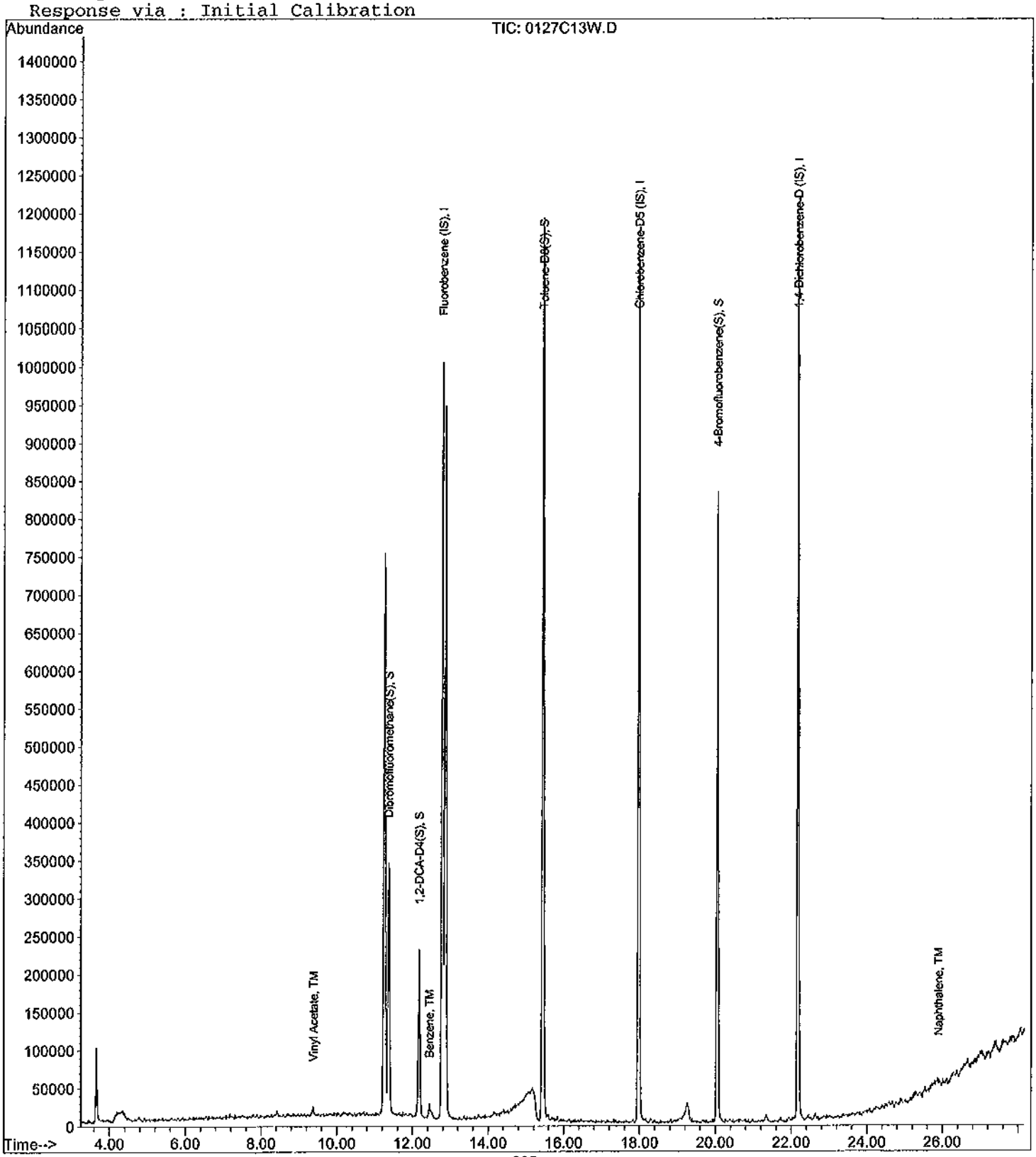
0127C13W.D CALLW.M Thu Feb 09 12:07:16 2012 Page 1

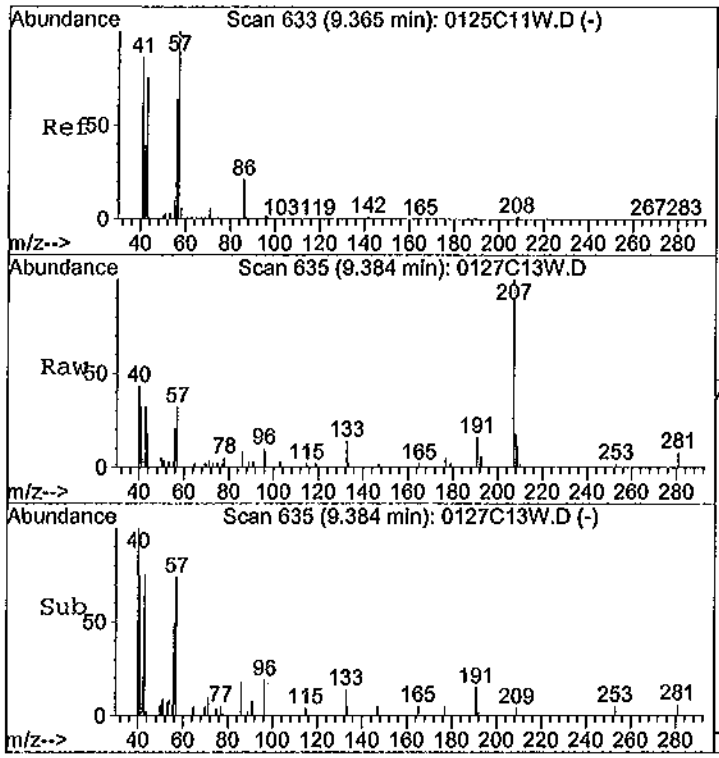
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C13W.D Vial: 1
Acq On : 27 Jan 12 17:30 Operator: RS, ARS
Sample : AY53667W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 31 11:54 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration

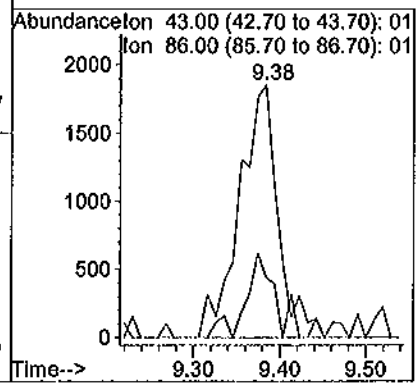


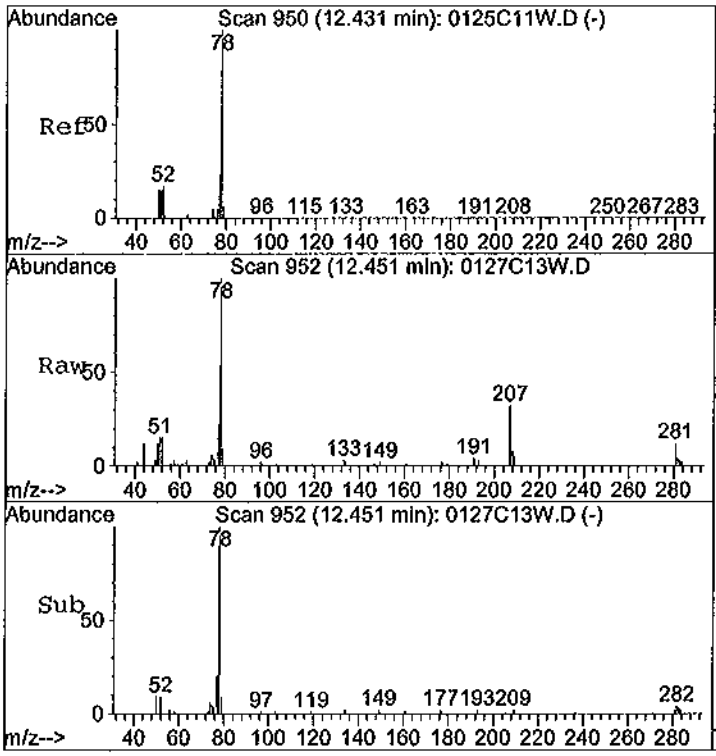


#25
Vinyl Acetate
Concen: 0.84696 ppb
RT: 9.38 min Scan# 635
Delta R.T. 0.02 min
Lab File: 0127C13W.D
Acq: 27 Jan 12 17:30

Tgt Ion: 43 Resp: 1857

Ion	Ratio	Lower	Upper
43	100		
86	24.0	20.0	37.1

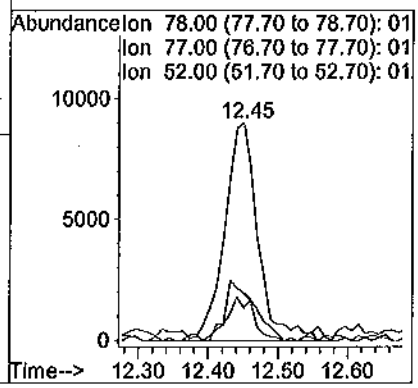


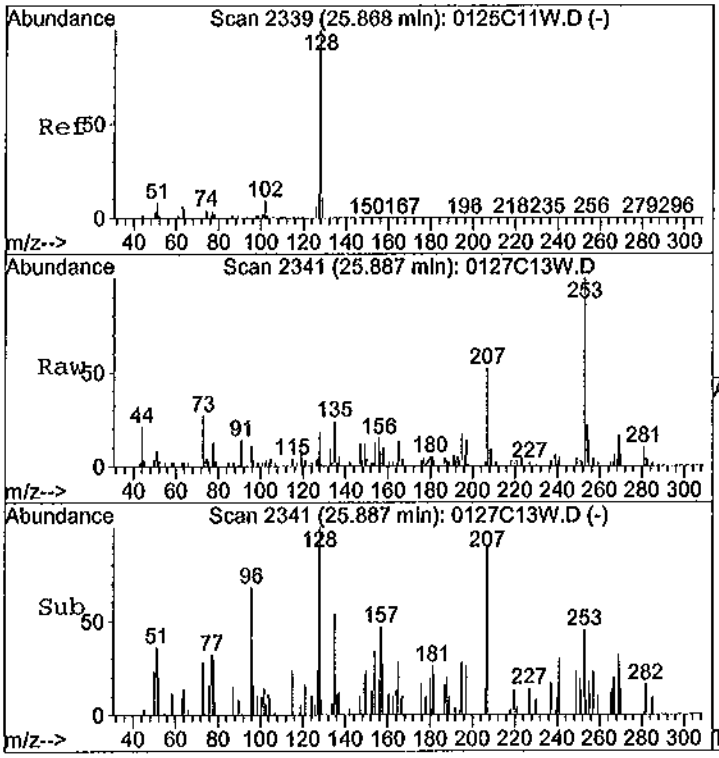


#41
Benzene
Concen: 0.70119 ppb
RT: 12.45 min Scan# 952
Delta R.T. 0.02 min
Lab File: 0127C13W.D
Acq: 27 Jan 12 17:30

Tgt Ion: 78 Resp: 29966

Ion	Ratio	Lower	Upper
78	100		
77	20.1	15.8	29.4
52	14.9	11.9	22.1

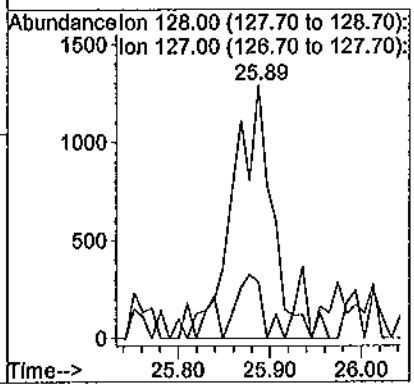




#95
Naphthalene
Concen: 0.17025 ppb
RT: 25.89 min Scan# 2341
Delta R.T. 0.02 min
Lab File: 0127C13W.D
Acq: 27 Jan 12 17:30

Tgt Ion:128 Resp: 3873

Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.2	17.0



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C13W.D Vial: 1
Acq On : 27 Jan 12 17:30 Operator: RS, ARS
Sample : AY53667W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	995124	25.00000 ppb	0.00
3) Chlorobenzene-D5 (IS)	17.97	TIC	1147966	25.00000 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.17	TIC	1183267	25.00000 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Gasoline	15.58	TIC	19121793m	28.99055 ppb	100

no gasoline pattern 2/7/2012

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

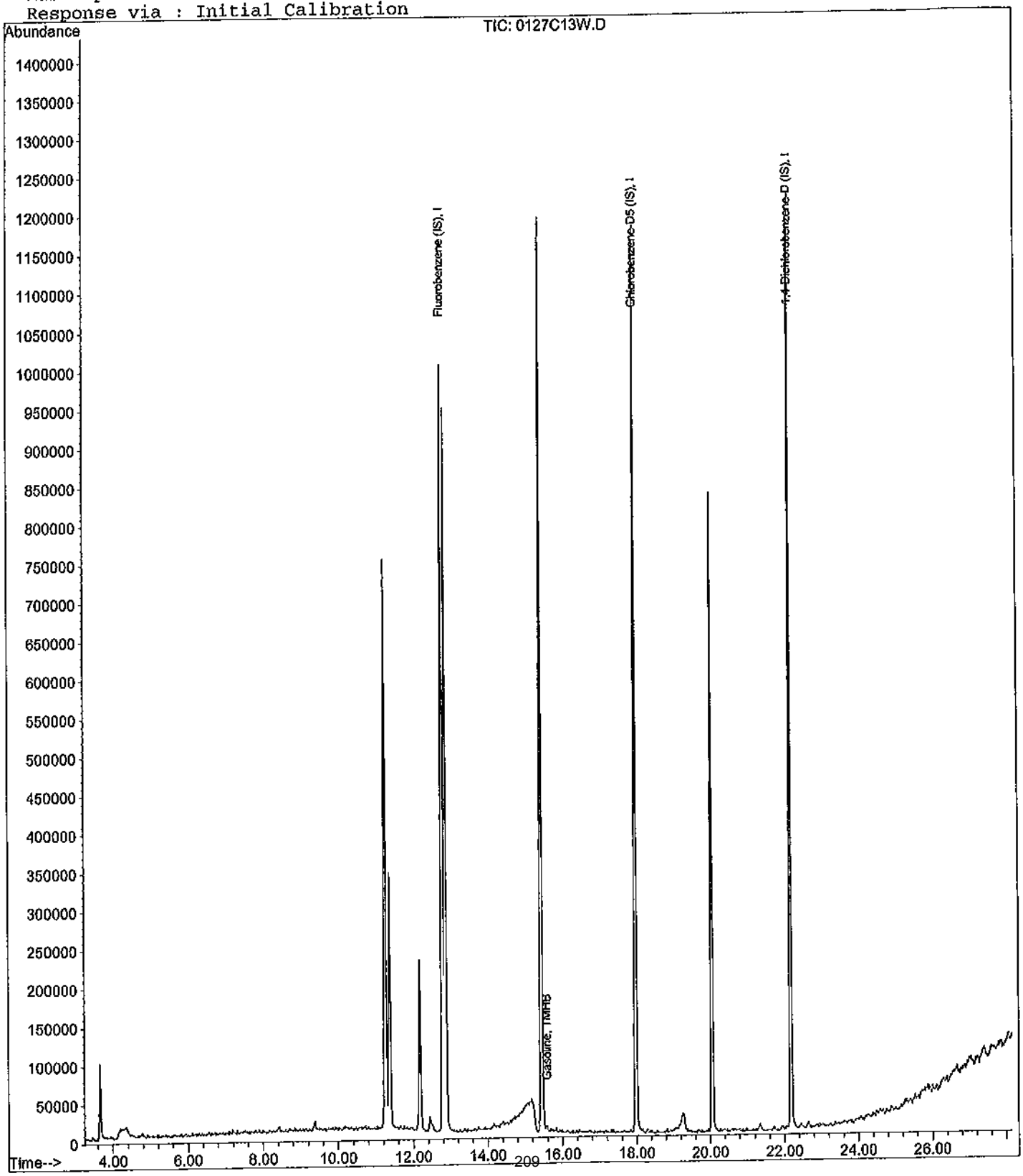
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C13W.D
Acq On : 27 Jan 12 17:30
Sample : AY53667W01
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

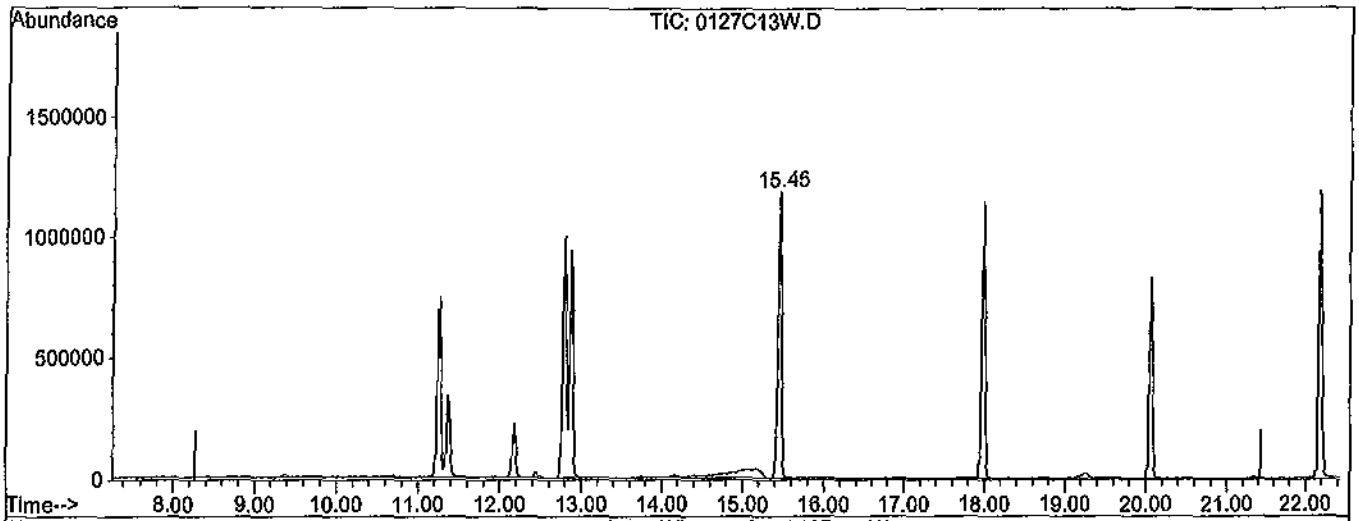
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

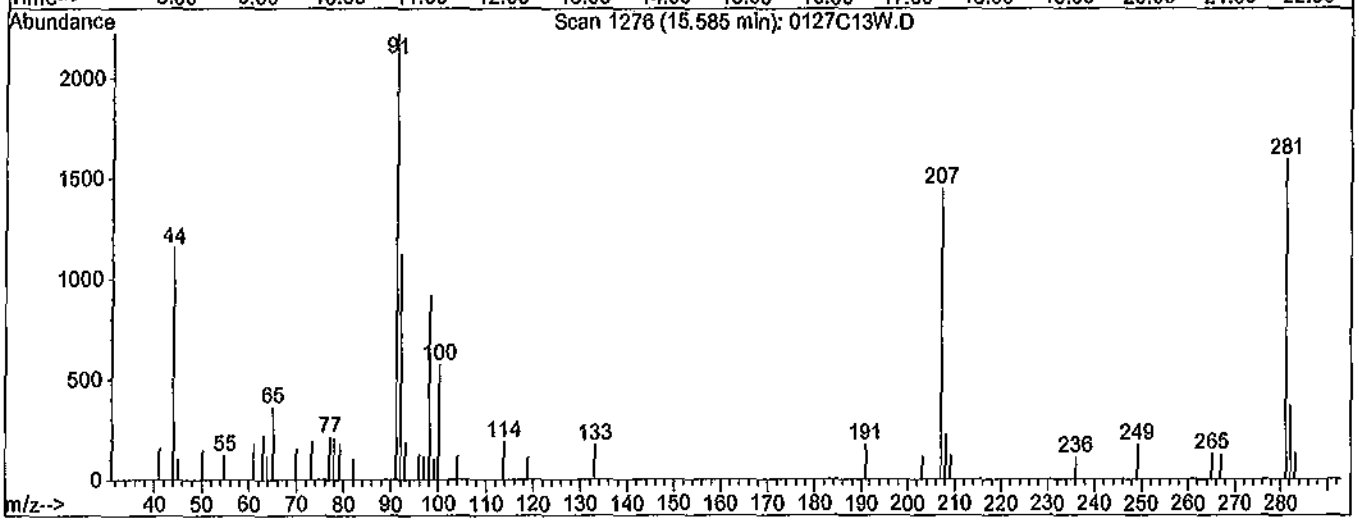


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C13W.D Vial: 1
Acq On : 27 Jan 12 17:30 Operator: RS, ARS
Sample : AY53667W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:48 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0127C13W.D

(2) Gasoline (TMHB)

15.58min 28.9906ppb m

response 19121793

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.61#
0.00	0.00	1.81#
0.00	0.00	0.00

EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen

Project: RED HILL/1022-015

ARF: 66795

Sample ID: ES059

APPL ID: AY53668

Sample Collection Date: 01/24/12

QCG: #86RHB-120127AC-163743

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	01/27/12	01/27/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/27/12	01/27/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/27/12	01/27/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	01/27/12	01/27/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	01/27/12	01/27/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/27/12	01/27/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/27/12	01/27/12
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/27/12	01/27/12
EPA 8260B	BENZENE	0.58 J	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/27/12	01/27/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/27/12	01/27/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/27/12	01/27/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/27/12	01/27/12
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C14
Instrument: Chico
Sequence: C120125
Dilution Factor: 1
Initials: SV

Printed: 02/09/12 11:38:38 AM
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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66795

Sample ID: ES059

APPL ID: AY53668

Sample Collection Date: 01/24/12

QCG: #86RHB-120127AC-163743

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	01/27/12	01/27/12
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/27/12	01/27/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	99.2	70-120			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	96.2	75-120			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	92.4	85-115			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	102	85-120			%	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C14
Instrument: Chico
Sequence: C120125
Dilution Factor: 1
Initials: SV

Printed: 02/09/12 11:38:38 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C14W.D Vial: 1
Acq On : 27 Jan 12 18:07 Operator: RS, ARS
Sample : AY53668W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 31 11:58 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.78	96	538766	25.00000	ppb	0.01
54) Chlorobenzene-D5 (IS)	17.98	117	432000	25.00000	ppb	0.01
70) 1,4-Dichlorobenzene-D (IS)	22.18	152	229888	25.00000	ppb	0.01
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.36	111	319804	22.29817	ppb	0.00
Spiked Amount 24.119			Recovery = 92.449%			
37) 1,2-DCA-D4(S)	12.17	65	234873	22.69794	ppb	0.01
Spiked Amount 22.874			Recovery = 99.230%			
55) Toluene-D8(S)	15.44	98	1377143	25.22592	ppb	0.01
Spiked Amount 24.755			Recovery = 101.902%			
63) 4-Bromofluorobenzene(S)	20.05	95	491284	25.74930	ppb	0.01
Spiked Amount 26.777			Recovery = 96.160%			
Target Compounds						Qvalue
25) Vinyl Acetate	9.38	43	1744	0.75125	ppb	87
41) Benzene	12.44	78	26008	0.57898	ppb	98

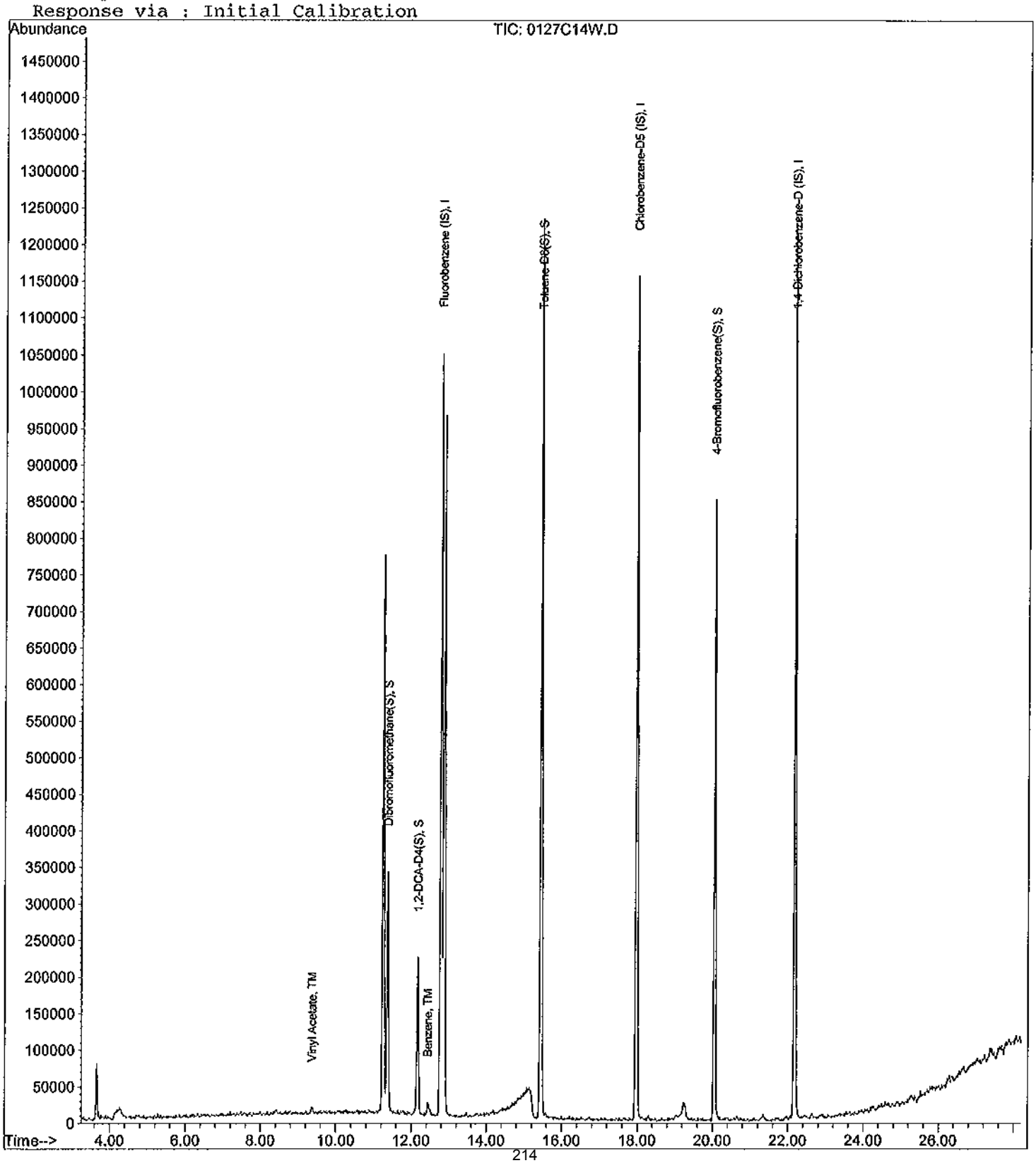
(#) = qualifier out of range (m) = manual integration

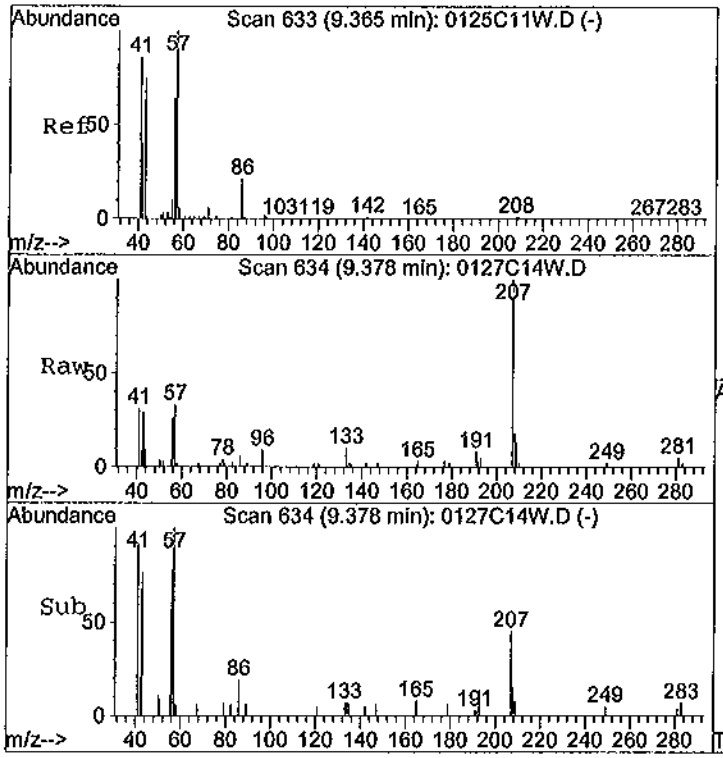
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C14W.D Vial: 1
Acq On : 27 Jan 12 18:07 Operator: RS, ARS
Sample : AY53668W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 31 11:58 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration

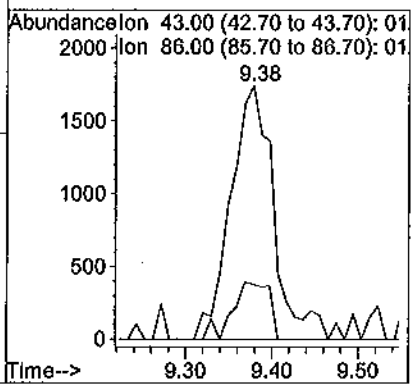


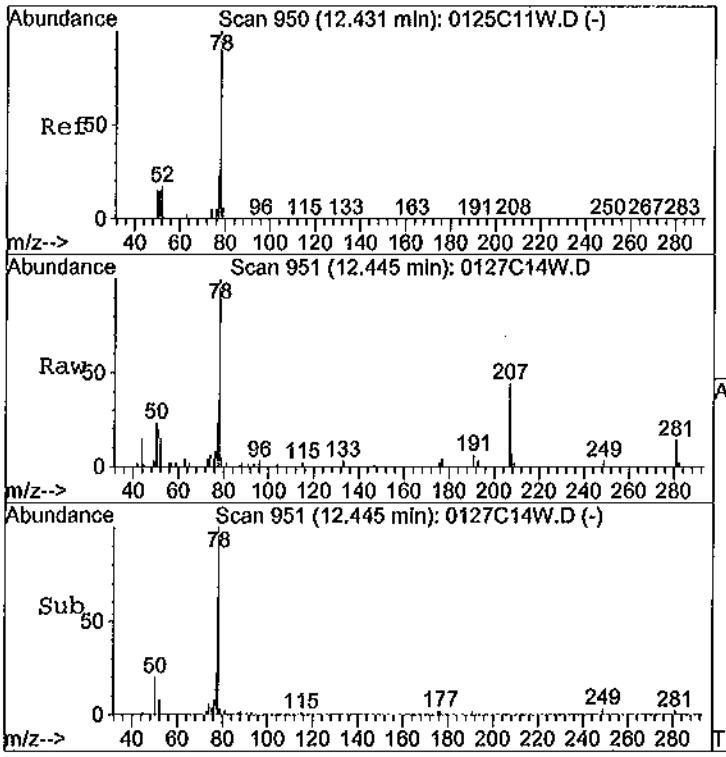


#25
Vinyl Acetate
Concen: 0.75125 ppb
RT: 9.38 min Scan# 634
Delta R.T. 0.01 min
Lab File: 0127C14W.D
Acq: 27 Jan 12 18:07

Tgt Ion: 43 Resp: 1744

Ion	Ratio	Lower	Upper
43	100		
86	21.7	20.0	37.1

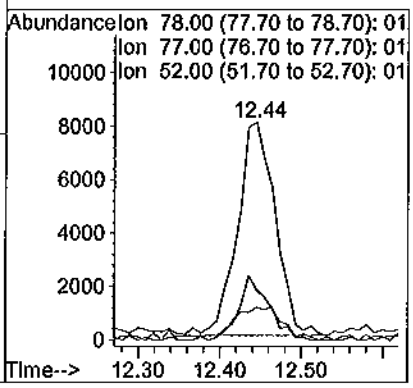




#41
Benzene
Concen: 0.57898 ppb
RT: 12.44 min Scan# 951
Delta R.T. 0.01 min
Lab File: 0127C14W.D
Acq: 27 Jan 12 18:07

Tgt Ion: 78 Resp: 26008

Ion	Ratio	Lower	Upper
78	100		
77	22.0	15.8	29.4
52	15.3	11.9	22.1



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C14W.D Vial: 1
Acq On : 27 Jan 12 18:07 Operator: RS, ARS
Sample : AY53668W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.78	TIC	1041751	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1153414	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1217444	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	18237075m	9.32205	ppb	100

No gasoline pattern ND.
PB 2/7/2012

(#) = qualifier out of range (m) = manual integration
0127C14W.D CGAS.M Tue Feb 07 09:58:13 2012

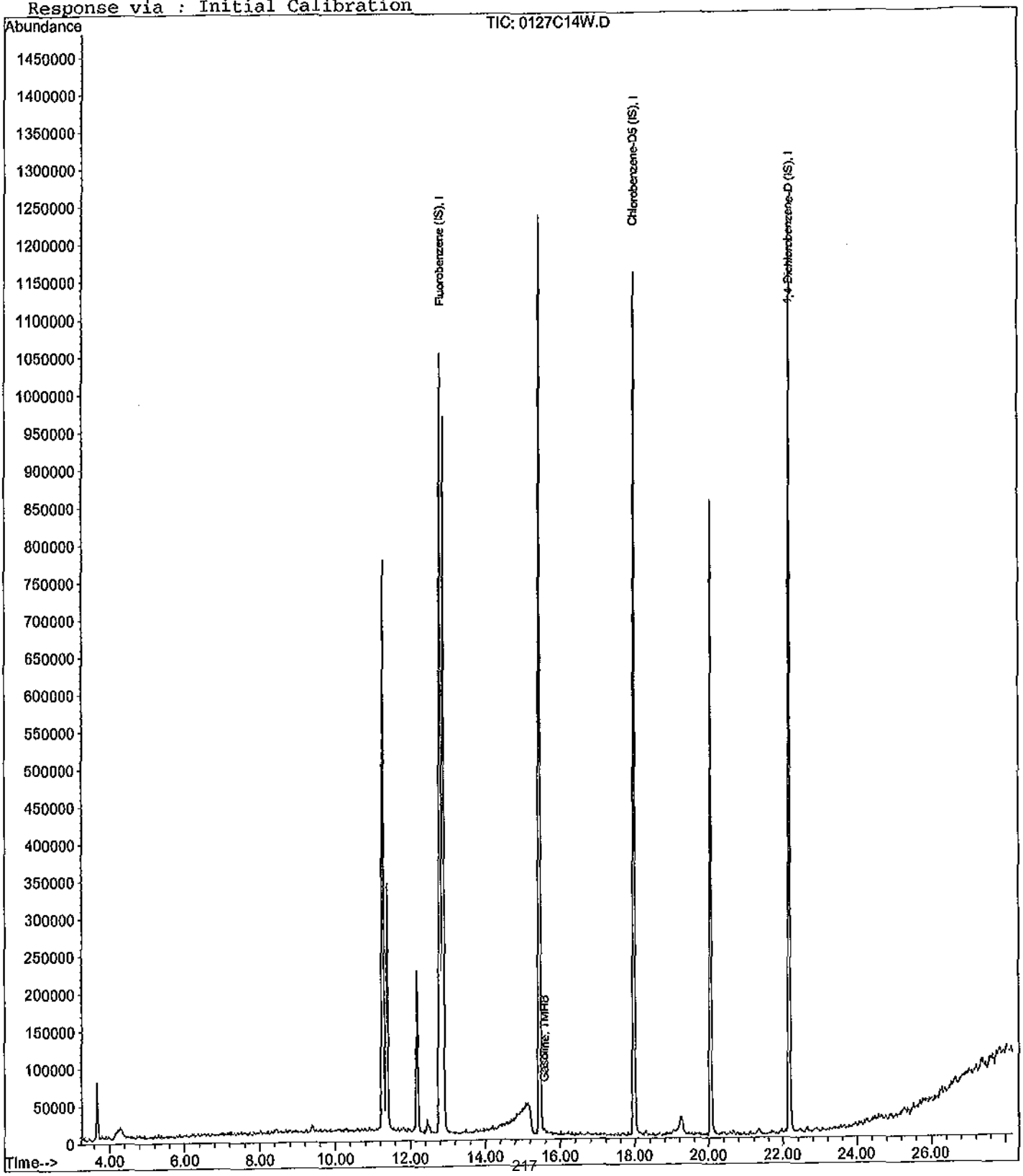
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C14W.D
Acq On : 27 Jan 12 18:07
Sample : AY53668W01
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

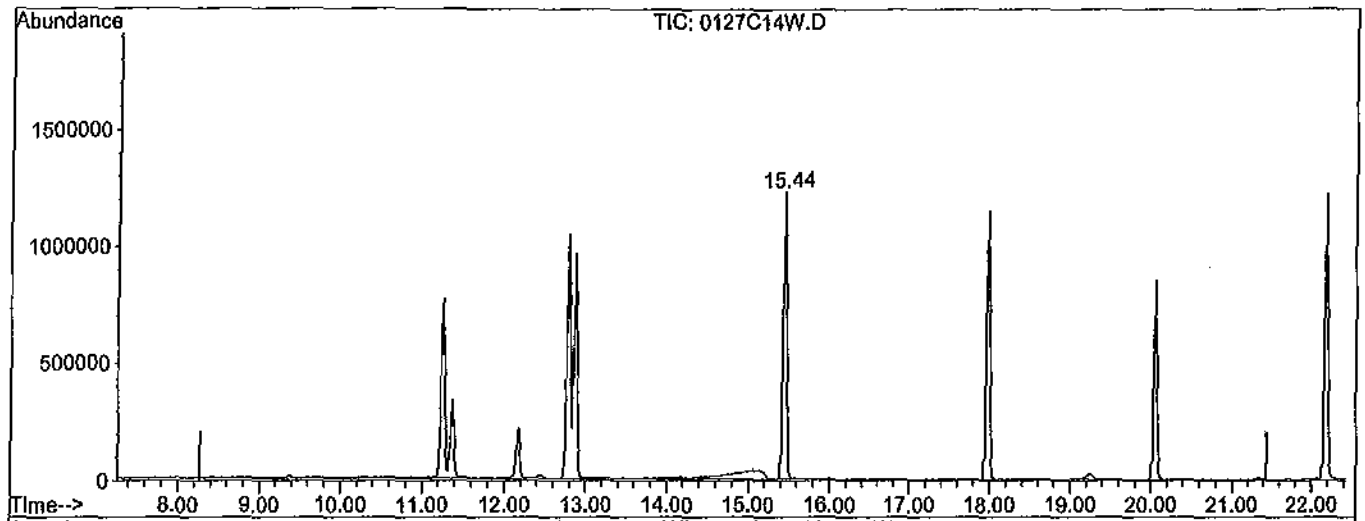
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

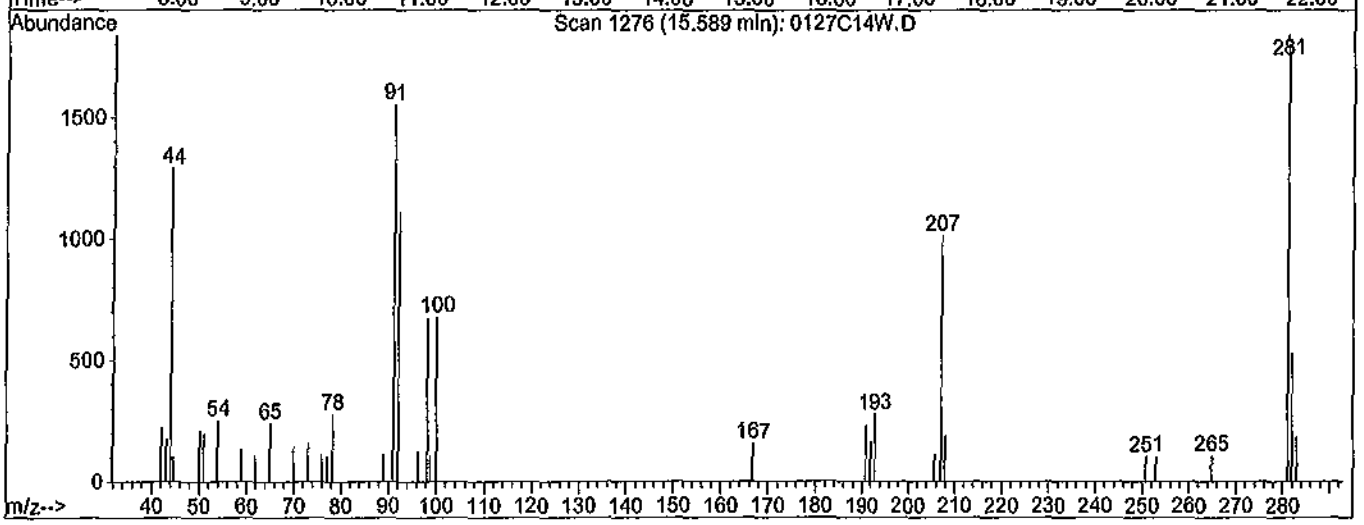


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C14W.D Vial: 1
Acq On : 27 Jan 12 18:07 Operator: RS, ARS
Sample : AY53668W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:48 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0127C14W.D

(2) Gasoline (TMHB)

15.58min 9.3221ppb m

response 18237075

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.67#
0.00	0.00	1.94#
0.00	0.00	0.00

EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen
Project: RED HILL/1022-015
Sample ID: TRIP BLANK
Sample Collection Date: 01/24/12

ARF: 66795
APPL ID: AY53669
QCG: #86RHB-120131AT-163745

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	01/31/12	01/31/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/31/12	01/31/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/31/12	01/31/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	01/31/12	01/31/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	01/31/12	01/31/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/31/12	01/31/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/31/12	01/31/12
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/31/12	01/31/12
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/31/12	01/31/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/31/12	01/31/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/31/12	01/31/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/31/12	01/31/12
EPA 8260B	METHYLENE CHLORIDE	0.69 J	5.0	0.70	0.35	ug/L	01/31/12	01/31/12

J = Estimated value.

Quant Method: TALLW.M
Run #: 0131T22
Instrument: Thor
Sequence: T120131
Dilution Factor: 1
Initials: SV

Printed: 02/09/12 11:38:38 AM
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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66795

Sample ID: TRIP BLANK

APPL ID: AY53669

Sample Collection Date: 01/24/12

QCG: #86RHB-120131AT-163745

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	01/31/12	01/31/12
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/31/12	01/31/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	101	70-120			%	01/31/12	01/31/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	101	75-120			%	01/31/12	01/31/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	102	85-115			%	01/31/12	01/31/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	100	85-120			%	01/31/12	01/31/12

J = Estimated value.

Quant Method: TALLW.M
Run #: 0131T22
Instrument: Thor
Sequence: T120131
Dilution Factor: 1
Initials: SV

Printed: 02/09/12 11:38:38 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\THOR\DATA\T120131\0131T22W.D Vial: 22
Acq On : 31 Jan 12 20:05 Operator:
Sample : AY53669W02 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:12 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	683008	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	546368	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	275648	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.97	111	325511	33.18263 ppb	0.00
Spiked Amount 32.661			Recovery = 101.598%		
36) 1,2-DCA-D4(S)	6.35	65	332803	31.22404 ppb	0.00
Spiked Amount 30.896			Recovery = 101.063%		
56) Toluene-D8(S)	8.45	98	1173005	34.05266 ppb	0.00
Spiked Amount 33.937			Recovery = 100.342%		
64) 4-Bromofluorobenzene(S)	11.06	95	432591	33.32660 ppb	0.00
Spiked Amount 33.154			Recovery = 100.522%		
Target Compounds					Qvalue
18) Methylene chloride	3.47	84	5229	0.68038 ppb	87

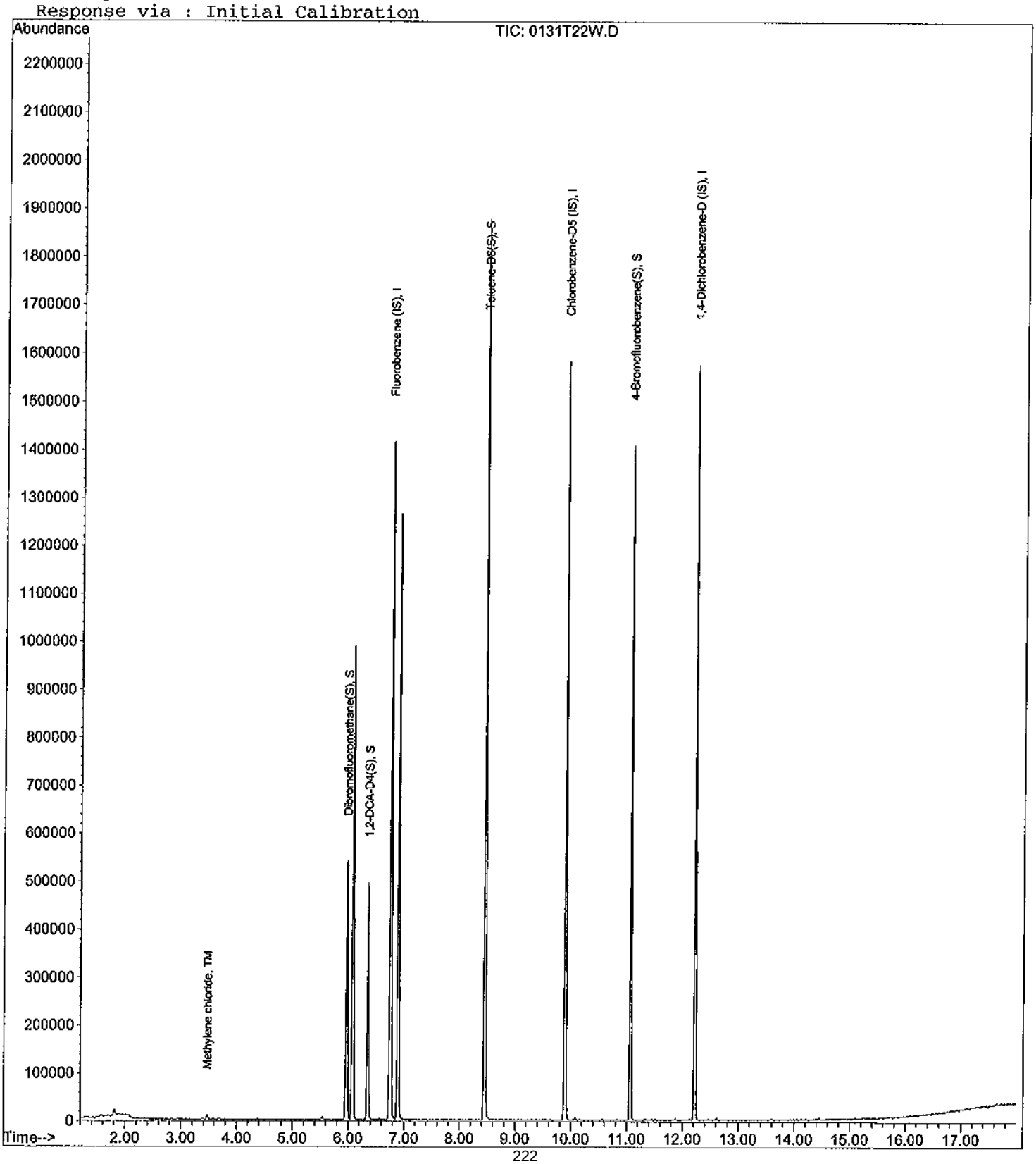
(#) = qualifier out of range (m) = manual integration

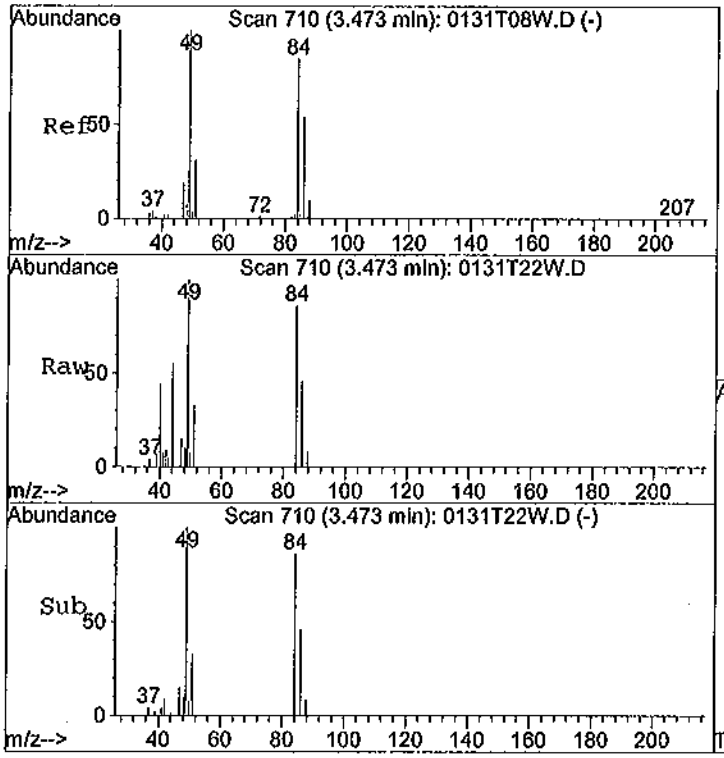
Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T22W.D Vial: 22
Acq On : 31 Jan 12 20:05 Operator:
Sample : AY53669W02 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:12 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration

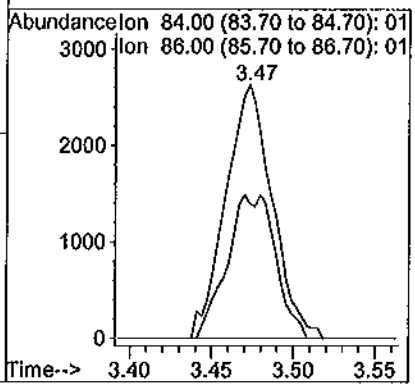




#18
Methylene chloride
Concen: 0.68038 ppb
RT: 3.47 min Scan# 710
Delta R.T. 0.00 min
Lab File: 0131T22W.D
Acq: 31 Jan 12 20:05

Tgt Ion: 84 Resp: 5229

Ion	Ratio	Lower	Upper
84	100		
86	53.5	44.4	82.4



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C10W.D Vial: 1
Acq On : 27 Jan 12 15:38 Operator: RS, ARS
Sample : AY53669W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1080800	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1268748	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1285997	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	19376906m	14.17930	ppb	100

ND
no gasoline pattern. DRS 2/7/2012

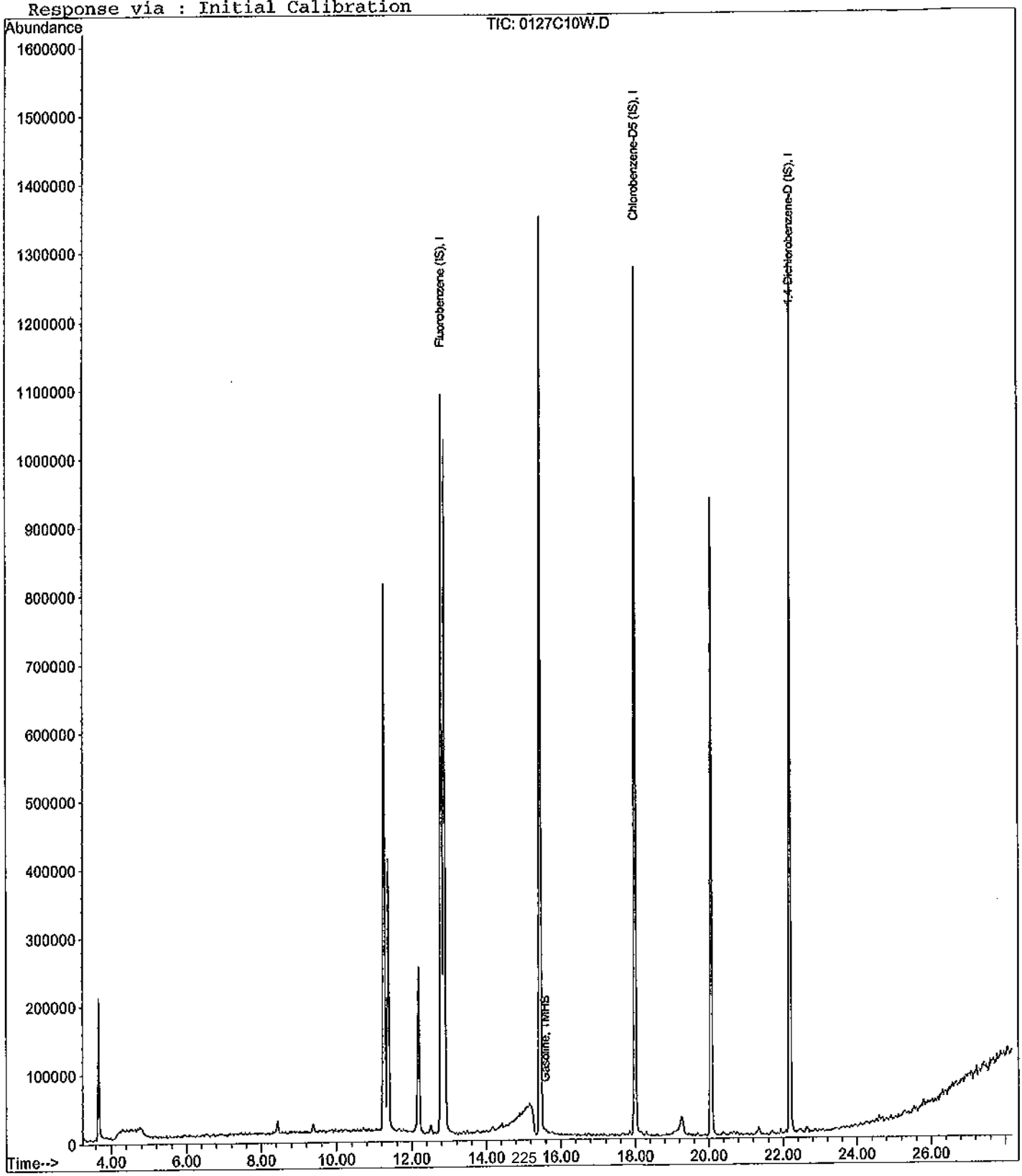
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C10W.D
Acq On : 27 Jan 12 15:38
Sample : AY53669W01
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

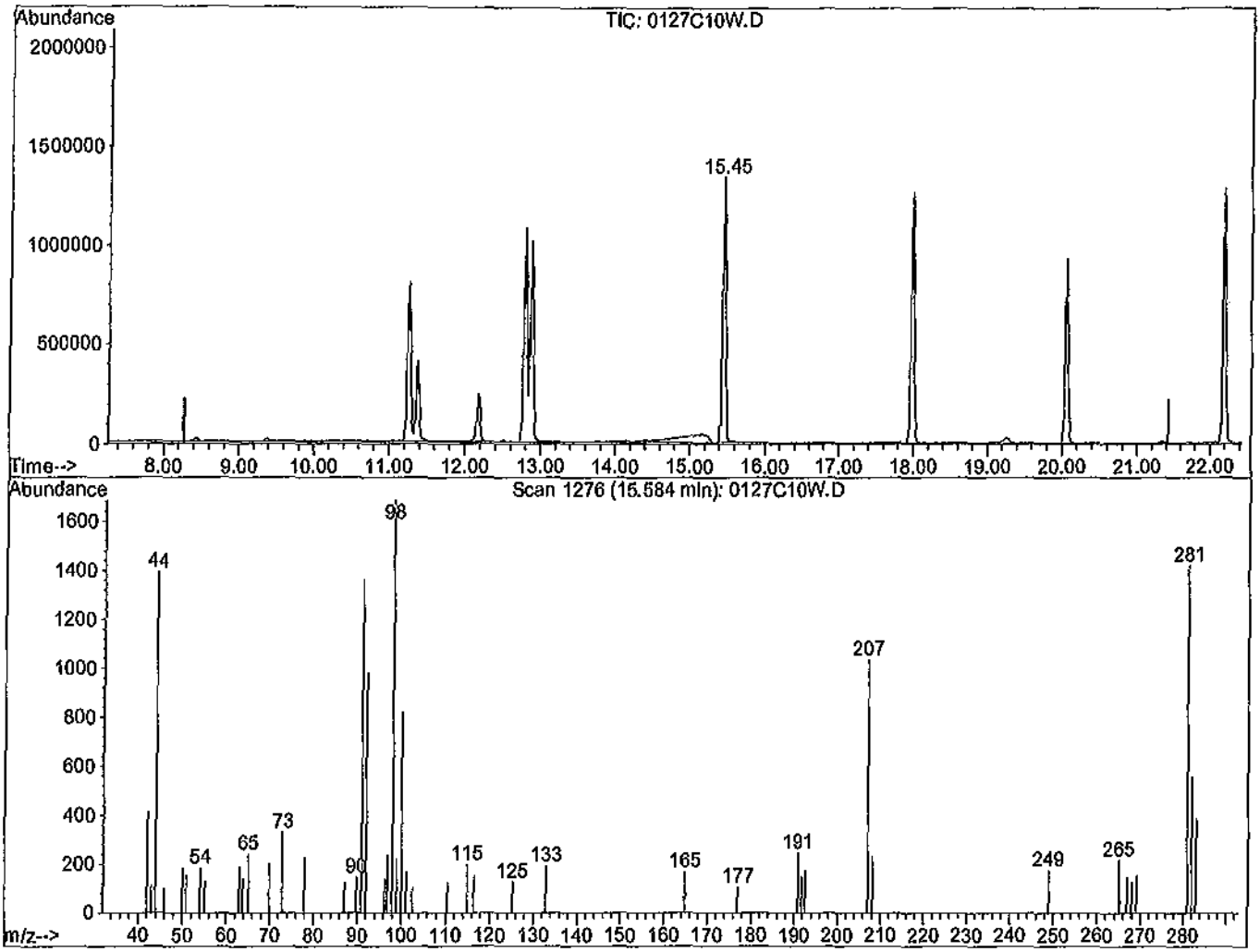
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C10W.D Vial: 1
Acq On : 27 Jan 12 15:38 Operator: RS, ARS
Sample : AY53669W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:48 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0127C10W.D

(2) Gasoline (TMHB)

15.58min 14.1793ppb m

response 19376906

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.64#
0.00	0.00	1.98#
0.00	0.00	0.00

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: 66795
Case No: Initial Cal. Date: 01/25/12
Matrix: Water Instrument: Chico Initials:

			0125C07W.D	0125C08W.D	0125C09W.D	0125C10W.D	0125C11W.D	0125C12W.D	0125C13W.D							
		Compound	0.3	0.5	1	5	10	40	100				Avg	%RSD		r^2
1	I	Fluorobenzene (IS)														
2	TMQ	Dichlorodifluoromethane		0.8105	0.7440	0.5541	0.8957	0.9210	0.8962				0.80	17	TMQ	1.000
3	TM	Freon 114	0.3205	0.3775	0.4185	0.3506	0.3703	0.4207	0.4132				0.38	10.0	TM	
4	TM**L	Chloromethane		0.5133	0.3941	0.3202	0.4015	0.3745	0.3630				0.39	16	TM**L	1.000
5	TM*	Vinyl chloride		0.3557	0.3342	0.2560	0.2411	0.2089					0.28	23	TM*	
6	TML	Bromomethane		0.0600	0.0845	0.1244	0.1514	0.1831	0.1925				0.13	40	TML	1.000
7	TM	Chloroethane	0.1833	0.2486	0.2128	0.1789	0.1980	0.1758	0.1678				0.20	14	TM	
8	TM	Dichlorofluoromethane	1.352	1.344	1.422	1.533	1.497	1.459	1.385				1.4	5.1	TM	
9	TM	Trichlorofluoromethane	0.1908	0.1927	0.1837	0.1603	0.1995	0.1960	0.1923				0.19	7.0	TM	
10		Acetonitrile	0.0277	0.0247	0.0271	0.0283	0.0255	0.0280	0.0243				0.03	6.2		
11	TM	Acrolein	0.0052	0.0046	0.0055	0.0061	0.0059	0.0059	0.0062				0.01	9.9	TM	
12	TML	Acetone		0.1801	0.1090	0.0617	0.0538	0.0527	0.0488				0.08	62	TML	0.999
13	TM	Freon-113	0.4574	0.5859	0.5857	0.5663	0.6064	0.6237	0.6137				0.58	9.7	TM	
14	TM*	1,1-DCE		0.3432	0.4799	0.3537	0.3405	0.3385	0.3345				0.37	16	TM*	
15	TM	t-Butanol	0.0032	0.0030	0.0023	0.0024	0.0029	0.0025	0.0029				0.00	12	TM	
16	TML	Methyl Acetate		0.2892	0.2696	0.1995	0.1917	0.1872	0.1809				0.22	21	TML	1.000
17	TML	Iodomethane		0.3403	0.6119	0.7906	0.8171	0.8261	0.8349				0.70	28	TML	1.00
18	TM	Acrylonitrile		0.0728	0.0611	0.0787	0.0684	0.0728	0.0707				0.07	8.2	TM	
19	TML	Methylene chloride		1.381	0.6556	0.4818	0.4302	0.4249	0.4014				0.63	60	TML	1.000
20	TM	Carbon disulfide	0.3908	0.3656	0.3489	0.3689	0.3695	0.3581	0.3539				0.37	3.8	TM	
21	TM	Methyl t-butyl ether (MtBE)	1.101	0.8921	0.8560	0.9226	0.9188	0.8793	0.8599				0.92	9.2	TM	
22	TML	Trans-1,2-DCE	0.5913	0.6946	0.5232	0.4370	0.4129	0.4124	0.4085				0.50	22	TML	1.00
23	TM	Diisopropyl Ether	1.850	2.014	1.909	2.078	2.050	1.968	1.847				2.0	4.8	TM	
24	TM**	1,1-DCA	1.003	0.9693	0.9522	1.004	1.024	0.9980	0.9578				0.99	2.8	TM**	
25	TML	Vinyl Acetate		0.1808	0.1260	0.1109	0.0978	0.0982	0.1013				0.12	27	TML	1.000
26	TM	Ethyl tert Butyl Ether	1.249	1.307	1.348	1.389	1.394	1.370	1.278				1.3	4.2	TM	
27	TMQ	MEK (2-Butanone)	0.0677	0.0829	0.0582	0.0524	0.0537	0.0514	0.0475				0.06	21	TMQ	1.00
28	TM	Cis-1,2-DCE	0.6210	0.7232	0.7399	0.6538	0.6493	0.6333	0.6032				0.66	7.8	TM	
29	TM	2,2-Dichloropropane		0.7244	0.7431	0.8916	0.8609	0.8684	0.8595				0.82	8.7	TM	
30	TM*	Chloroform	1.116	1.007	1.003	1.075	1.071	1.077	1.035				1.1	3.9	TM*	
31	TM	Bromochloromethane	0.1655	0.1940	0.2050	0.2126	0.2137	0.2102	0.2026				0.20	8.4	TM	
32	S	Dibromofluoromethane(S)		0.7135	0.6864	0.5813	0.6812	0.6741	0.6566				0.67	6.8	S	
33	TM	1,1,1-TCA	1.036	0.9185	0.8157	0.9042	0.8858	0.9190	0.8954				0.91	7.2	TM	
34	TM	Cyclohexane	0.8744	0.8572	0.7898	0.8849	0.8487	0.9143	0.9011				0.87	4.7	TM	
35	TM	1,1-Dichloropropene	0.6697	0.7123	0.6344	0.6036	0.5914	0.5938	0.5864				0.63	7.6	TM	

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66795
Case No: Initial Cal. Date: 01/25/12
Matrix: Water Instrument: Chico
Initials:

		Compound	0.3	0.5	1	5	10	40	100				Avg	%RSD		
36	TM	2,2,4-Trimethylpentane	1.812	1.793	1.777	1.582	1.555	1.628	1.661				1.7	6.3	TM	
37	S	1,2-DCA-D4(S)		0.5260	0.5162	0.4389	0.4835	0.4706	0.4457				0.48	7.4	S	
38	TML	Carbon Tetrachloride		0.2061	0.2964	0.5643	0.6003	0.6878	0.7049				0.51	41	TML	1.000
39	TM	Tert Amyl Methyl Ether	1.039	1.130	1.038	1.048	1.068	1.043	0.9962				1.1	3.9	TM	
40	TM	1,2-DCA		0.4668	0.4144	0.4668	0.4646	0.4441	0.4135				0.45	5.7	TM	
41	TM	Benzene	2.251	2.211	1.912	2.098	2.042	2.068	2.010				2.1	5.6	TM	
42	TM	TCE		0.5396	0.5620	0.5812	0.5934	0.5970	0.5799				0.58	3.7	TM	
43	TM	2-Pentanone	0.1380	0.1201	0.1398	0.1437	0.1526	0.1501	0.1469				0.14	7.7	TM	
44	TM*	1,2-Dichloropropane	0.4907	0.5325	0.5936	0.5717	0.5737	0.5605	0.5402				0.55	6.2	TM* ✓	
45	TM	Bromodichloromethane		0.5758	0.5521	0.6445	0.6731	0.7052	0.6893				0.64	9.8	TM	
46	TM	Methyl Cyclohexane	0.7732	0.7719	0.7612	0.8224	0.8093	0.8475	0.8371				0.80	4.3	TM	
47	TM	Dibromomethane	0.2449	0.2121	0.1889	0.2427	0.2303	0.2369	0.2301				0.23	8.8	TM	
48	TM	2-Chloroethyl vinyl ether	0.1645	0.1298	0.1815	0.1665	0.1772	0.1833	0.1866				0.17	12	TM	
49	TM	1-Bromo-2-chloroethane	0.4502	0.4277	0.4385	0.4951	0.5007	0.5070	0.4900				0.47	6.9	TM	
50	TML	Cis-1,3-Dichloropropene	0.9510	1.078	0.6839	0.7735	0.7496	0.7792	0.7444				0.82	17	TML ✓	1.000
51	TM*	Toluene	2.408	2.387	2.482	2.517	2.457	2.489	2.385				2.4	2.2	TM* ✓	
52	TM	Trans-1,3-Dichloropropene	0.5833	0.4567	0.4529	0.5216	0.5636	0.5692	0.5664				0.53	10	TM	
53	TM	1,1,2-TCA	0.2222	0.1872	0.2433	0.2746	0.2761	0.2888	0.2702				0.25	14	TM	
54	I	Chlorobenzene-D5 (IS)														
55	S	Toluene-D8(S)		3.433	3.343	2.833	3.160	3.152	3.034				3.2	6.8	S	
56	TM	1,2-EDB	0.4114	0.3068	0.3329	0.3667	0.3933	0.4039	0.3903				0.37	11	TM	
57	TM	Tetrachloroethene	0.5773	0.7018	0.6666	0.7046	0.6798	0.7265	0.6908				0.68	7.1	TM	
58	TM	1-Chlorohexane	1.185	1.169	1.183	1.273	1.253	1.365	1.301				1.2	5.8	TM	
59	TM	1,1,1,2-Tetrachloroethane	0.6517	0.5940	0.6740	0.7148	0.7468	0.7753	0.7490				0.70	9.2	TM	
60	TM	m&p-Xylene		1.410	1.474	1.504	1.506	1.517	1.465				1.5	2.7	TM	
61	TM	o-Xylene		1.295	1.515	1.515	1.494	1.551	1.444				1.5	6.3	TM	
62	TM	Styrene	1.891	2.320	2.042	2.251	2.279	2.365	2.217				2.2	7.7	TM	
63	S	4-Bromofluorobenzene(S)		1.369	1.171	0.9602	1.069	1.061	0.9938				1.1	13	S	
64	TM	2-Hexanone	0.1421	0.1300	0.0956	0.1298	0.1511	0.1535	0.1472				0.14	15	TM	
65	TM	1,3-Dichloropropane	0.6238	0.7008	0.6692	0.7033	0.6934	0.7257	0.6776				0.68	4.8	TM	
66	TM	Dibromochloromethane	0.4923	0.3818	0.4350	0.4862	0.5359	0.5816	0.5695				0.50	14	TM	
67	TM**	Chlorobenzene	2.202	2.068	2.139	2.114	2.211	2.212	2.082				2.1	2.9	TM** ✓	
68	TM*	Ethylbenzene	3.982	3.911	3.928	3.947	3.860	3.956	3.838				3.9	1.3	TM* ✓	
69	TM**L	Bromoform		0.1822	0.1946	0.2435	0.2815	0.3172	0.3341				0.26	24	TM**L	1.000
70	I	1,4-Dichlorobenzene-D (IS)														

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66795
Case No: Initial Cal. Date: 01/25/12
Matrix: Water Instrument: Chico Initials:

		Compound	0.3	0.5	1	5	10	40	100				Avg	%RSD		r²
71	TML	MIBK (methyl isobutyl ketone)	0.5744	0.6388	0.5683	0.4134	0.4480	0.4660	0.4471				0.51	17	TML	1.000
72	TM	Isopropylbenzene	7.460	7.293	7.224	7.660	7.588	7.665	7.419				7.5	2.3	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.6243	0.5413	0.7164	0.6836	0.7483	0.7693	0.7486				0.69	12	TM** ✓	
74	TMQ	1,2,3-Trichloropropane	0.0851	0.1273	0.0988	0.0712	0.0747	0.0770	0.0665				0.09	25	TMQ	1.000
75	TML	t-1,4-Dichloro-2-Butene		0.1112	0.1449	0.1522	0.1633	0.1786	0.1760				0.15	16	TML	1.000
76	TM	Bromobenzene	1.951	1.783	1.732	1.804	1.720	1.751	1.656				1.8	5.2	TM	
77	TM	n-Propylbenzene	9.575	9.768	9.119	9.350	9.145	9.328	8.790				9.3	3.4	TM	
78	TM	4-Ethyltoluene	5.429	5.250	5.201	5.658	5.272	5.491	5.503				5.4	3.1	TM	
79	TM	2-Chlorotoluene	5.615	6.097	6.382	5.953	5.808	5.869	5.453				5.9	5.2	TM	
80	TM	1,3,5-Trimethylbenzene	5.864	6.228	6.076	6.146	6.172	6.311	5.765				6.1	3.2	TM	
81	TM	4-Chlorotoluene	5.662	5.453	5.308	5.109	5.029	5.023	4.929				5.2	5.1	TM	
82	TM	Tert-Butylbenzene	7.838	7.473	6.952	6.792	6.516	6.767	6.393				7.0	7.5	TM	
83	TM	1,2,4-Trimethylbenzene	5.563	6.212	6.027	6.202	6.156	6.260	5.896				6.0	4.1	TM	
84	TM	Sec-Butylbenzene	8.464	8.689	8.515	8.591	8.529	8.868	8.462				8.6	1.7	TM	
85	TM	p-Isopropyltoluene	6.817	7.192	6.726	6.954	6.794	7.010	6.787				6.9	2.4	TM	
86	TM	Benzyl Chloride	1.635	1.321	1.433	1.187	1.334	1.442	1.408				1.4	9.9	TM	
87	TM	1,3-DCB	3.671	3.318	3.456	3.570	3.519	3.555	3.328				3.5	3.7	TM	
88	TM	1,4-DCB	3.876	3.450	3.320	3.274	3.316	3.310	3.192				3.4	6.7	TM	
89	TML	Hexachloroethane	0.7536	0.6027	0.7594	1.152	1.367	1.640	1.628				1.1	38	TML	1.000
90	TM	n-Butylbenzene	6.921	6.552	6.159	6.161	6.127	6.368	6.028				6.3	5.0	TM	
91	TM	1,2-DCB	3.002	3.040	3.051	2.897	2.842	2.927	2.710				2.9	4.2	TM	
92	TM	1,2-Dibromo-3-chloropropane			0.0889	0.1094	0.0968	0.1209	0.1154				0.11	12	TM	
93	TM	1,2,4-Trichlorobenzene	0.8459	0.8820	0.7353	0.8408	0.8355	0.8778					0.84	6.4	TM	
94	TML	Hexachlorobutadiene		1.492	1.111	1.031	0.9530	1.028	1.012				1.1	18	TML	1.000
95	TM	Naphthalene	2.669	2.359	2.274	2.494	2.613	2.591	2.508				2.5	5.7	TM	
96	TM	1,2,3-Trichlorobenzene	0.7184	0.6204	0.7128	0.6431	0.6824	0.6853	0.6446				0.67	5.5	TM	
97																
98																
99																
100																
101																
102																
103																
104																
105																

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C07W.D Vial: 1
Acq On : 25 Jan 12 17:16 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.77	96	544160	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	17.96	117	439104	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	232000	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.35	111	8372	0.57795 ppb		0.00
Spiked Amount 24.119			Recovery =	2.396%		
37) 1,2-DCA-D4(S)	12.16	65	6999	0.66967 ppb		0.00
Spiked Amount 22.874			Recovery =	2.929%		
55) Toluene-D8(S)	15.44	98	36281	0.65383 ppb		0.00
Spiked Amount 24.755			Recovery =	2.642%		
63) 4-Bromofluorobenzene(S)	20.04	95	15209	0.78424 ppb		0.00
Spiked Amount 26.777			Recovery =	2.928%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.04	85	3907	0.87829 ppb		92
3) Freon 114	4.30	85	2093	0.25198 ppb		92
5) Vinyl chloride	4.79	62	2712	0.44626 ppb		95
6) Bromomethane	5.68	94	565	1.48050 ppb		90
7) Chloroethane	5.88	64	1197	0.28196 ppb	#	84
8) Dichlorofluoromethane	5.96	67	8830	0.28419 ppb		97
9) Trichlorofluoromethane	6.48	103	1246	0.30466 ppb	#	71
10) Acetonitrile	7.61	41	9028	15.64202 ug/l		100
11) Acrolein	7.11	56	1693	13.82688 ppb	#	13
12) Acetone	7.23	43	1872	0.18650 ppb		95
13) Freon-113	7.40	101	2987	0.23782 ppb	#	59
14) 1,1-DCE	7.59	96	861	0.10836 ppb	#	92
15) t-Butanol	7.72	59	1044	17.48493 ppb	#	88
17) Iodomethane	8.10	142	1812	0.40164 ppb	#	69
18) Acrylonitrile	8.51	53	641	0.41626 ppb		79
19) Methylene chloride	8.42	84	17045	0.80865 ppb		91
20) Carbon disulfide	8.50	76	2552	0.32113 ppb	#	76
21) Methyl t-butyl ether (MtBE	8.84	73	7190	0.35962 ppb		94
22) Trans-1,2-DCE	9.03	96	3861	0.15682 ppb	#	32
23) Diisopropyl Ether	9.69	45	12082	0.28328 ppb	#	84
24) 1,1-DCA	9.72	63	6552	0.30500 ppb	#	89
25) Vinyl Acetate	9.36	43	2132	0.92014 ppb	#	70
26) Ethyl tert Butyl Ether	10.39	59	8158	0.28106 ppb	#	72
27) MEK (2-Butanone)	10.36	43	442	0.28457 ppb	#	69
28) Cis-1,2-DCE	10.73	96	4055	0.28204 ppb	#	41
29) 2,2-Dichloropropane	10.75	77	6583	0.36675 ppb	#	84
30) Chloroform	11.03	83	7285	0.31734 ppb	#	74
31) Bromochloromethane	11.24	128	1081	0.24768 ppb	#	1
33) 1,1,1-TCA	11.78	97	6762	0.34117 ppb		90
34) Cyclohexane	11.91	56	5710	0.30250 ppb	#	68
35) 1,1-Dichloropropene	12.03	75	4373	0.32023 ppb	#	70
36) 2,2,4-Trimethylpentane	12.11	57	11830	0.32226 ppb	#	75
38) Carbon Tetrachloride	12.25	117	1544	1.01150 ppb	#	63
39) Tert Amyl Methyl Ether	12.28	73	6787	0.29648 ppb		97
40) 1,2-DCA	12.32	62	2276	0.23497 ppb	#	75
41) Benzene	12.44	78	14701	0.32403 ppb		92
42) TCE	13.48	95	3245	0.25905 ppb	#	77
43) 2-Pentanone	13.14	43	45058	14.61871 ppb		99
44) 1,2-Dichloropropane	13.70	63	3204	0.26673 ppb	#	91

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C07W.D Vial: 1
Acq On : 25 Jan 12 17:16 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	Bromodichloromethane	14.05	83	3550	0.25484	ppb	#	89
46)	Methyl Cyclohexane	13.75	83	5049	0.28879	ppb		94
47)	Dibromomethane	14.11	93	1599	0.32427	ppb	#	58
48)	2-Chloroethyl vinyl ether	14.51	63	1074	0.29041	ppb	#	73
49)	1-Bromo-2-chloroethane	14.81	63	2940	0.28572	ppb		89
50)	Cis-1,3-Dichloropropene	14.95	75	6210	0.10962	ppb		92
51)	Toluene	15.56	91	15727	0.29533	ppb		95
52)	Trans-1,3-Dichloropropene	15.74	75	3809	0.32985	ppb		84
53)	1,1,2-TCA	16.01	83	1451	0.26477	ppb		79
56)	1,2-EDB	17.26	107	2168	0.33162	ppb	#	54
57)	Tetrachloroethene	16.73	164	3042	0.25537	ppb		90
58)	1-Chlorohexane	17.64	91	6242	0.28498	ppb		87
59)	1,1,1,2-Tetrachloroethane	18.10	131	3434	0.27898	ppb		83
60)	m&p-Xylene	18.29	106	14296	0.55024	ppb		100
61)	o-Xylene	19.03	106	8050	0.31198	ppb		96
64)	2-Hexanone	16.00	43	749	0.31448	ppb	#	25
65)	1,3-Dichloropropane	16.42	76	3287	0.27327	ppb		83
66)	Dibromochloromethane	16.91	129	2594	0.29688	ppb		82
67)	Chlorobenzene	18.03	112	11601	0.30766	ppb		85
68)	Ethylbenzene	18.15	91	20984	0.30497	ppb		95
69)	Bromoform	19.57	173	600	1.17155	ppb	#	65
71)	MIBK (methyl isobutyl keto	14.60	43	1599	0.17791	ppb	#	42
72)	Isopropylbenzene	19.67	105	20769	0.29949	ppb		91
73)	1,1,2,2-Tetrachloroethane	19.82	83	1738	0.27132	ppb	#	95
74)	1,2,3-Trichloropropane	20.08	110	237	0.45743	ppb		98
75)	t-1,4-Dichloro-2-Butene	20.14	53	92	0.39647	ppb	#	55
76)	Bromobenzene	20.40	156	5432	0.33049	ppb	#	67
77)	n-Propylbenzene	20.37	91	26657	0.30900	ppb		89
78)	4-Ethyltoluene	20.57	105	15114	0.30158	ppb		97
79)	2-Chlorotoluene	20.66	91	15631	0.28634	ppb		96
80)	1,3,5-Trimethylbenzene	20.64	105	16326	0.28935	ppb		81
81)	4-Chlorotoluene	20.74	91	15764	0.32566	ppb		90
82)	Tert-Butylbenzene	21.28	119	21822	0.33779	ppb		87
83)	1,2,4-Trimethylbenzene	21.33	105	15486	0.27604	ppb		91
84)	Sec-Butylbenzene	21.68	105	23563	0.29564	ppb		92
85)	p-Isopropyltoluene	21.91	119	18978	0.29650	ppb		93
86)	Benzyl Chloride	22.36	91	4551	0.35174	ppb		97
87)	1,3-DCB	22.06	146	10219	0.31569	ppb		94
88)	1,4-DCB	22.22	146	10790	0.34286	ppb		92
89)	Hexachloroethane	23.54	117	2098	0.86969	ppb	#	12
90)	n-Butylbenzene	22.63	91	19268	0.32797	ppb		97
91)	1,2-DCB	22.86	146	8358	0.30800	ppb	#	86
92)	1,2-Dibromo-3-chloropropan	24.04	155	71	0.07198	ppb	#	83
93)	1,2,4-Trichlorobenzene	25.53	180	2355	0.30348	ppb		85
94)	Hexachlorobutadiene	25.76	223	4351	0.40606	ppb		82
95)	Naphthalene	25.87	128	7430	0.32013	ppb	#	87
96)	1,2,3-Trichlorobenzene	26.23	180	2000	0.32050	ppb		86

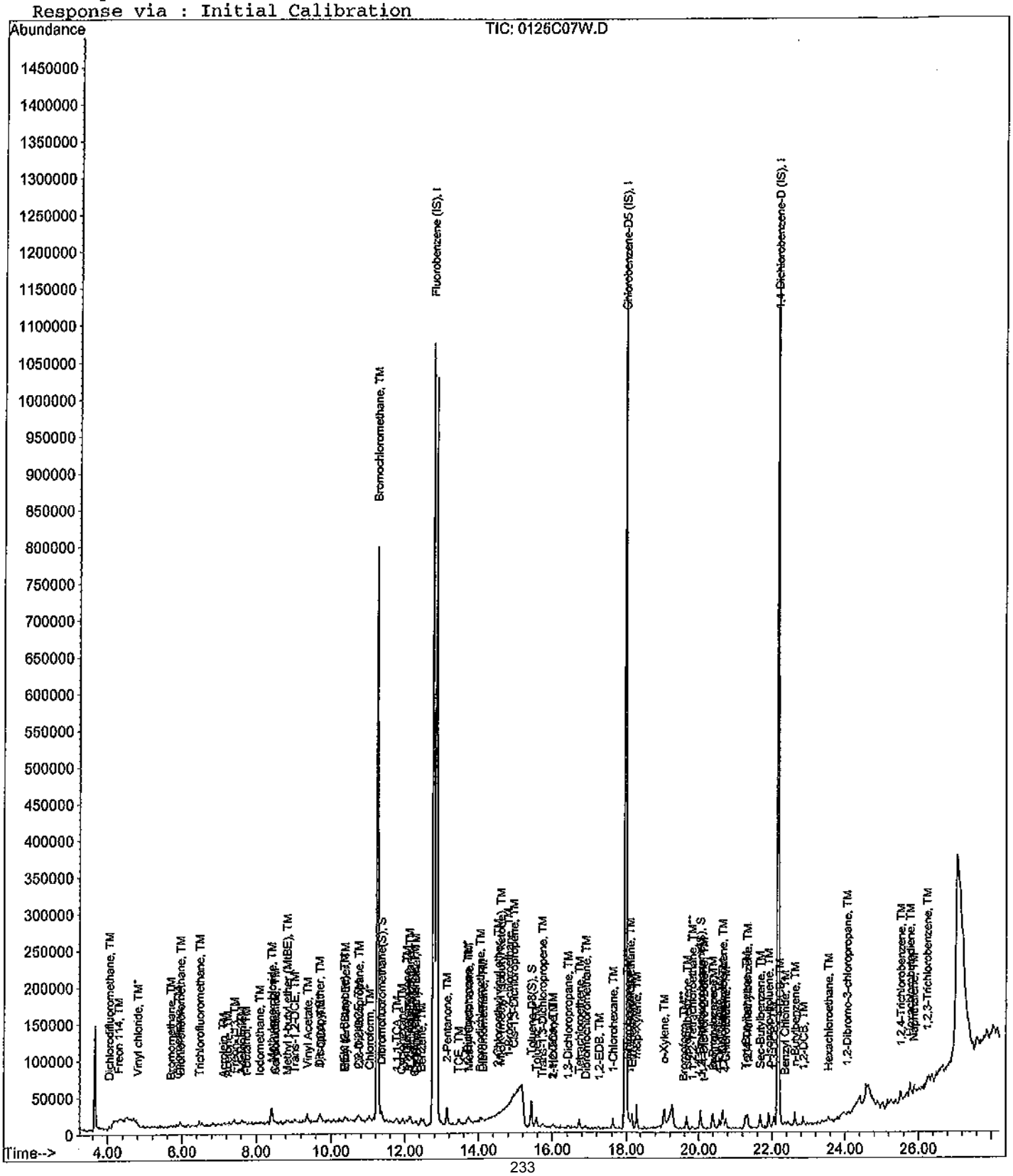
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C07W.D Vial: 1
Acq On : 25 Jan 12 17:16 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C08W.D Vial: 1
Acq On : 25 Jan 12 17:53 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.77	96	570373	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	17.96	117	448960	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	233792	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.36	111	16278	1.07208 ppb		0.00
Spiked Amount 24.119			Recovery	= 4.445%		
37) 1,2-DCA-D4(S)	12.16	65	12000	1.09541 ppb		0.00
Spiked Amount 22.874			Recovery	= 4.787%		
55) Toluene-D8(S)	15.43	98	61658	1.08676 ppb		0.00
Spiked Amount 24.755			Recovery	= 4.391%		
63) 4-Bromofluorobenzene(S)	20.03	95	24589	1.24008 ppb		0.00
Spiked Amount 26.777			Recovery	= 4.631%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.04	85	9246	1.11550 ppb		96
3) Freon 114	4.28	85	4306	0.49459 ppb		91
4) Chloromethane	4.52	50	5855	0.38803 ppb		90
5) Vinyl chloride	4.79	62	4058	0.63706 ppb		87
6) Bromomethane	5.68	94	684	1.50121 ppb		80
7) Chloroethane	5.87	64	2836	0.63735 ppb		97
8) Dichlorofluoromethane	5.97	67	15335	0.47088 ppb		99
9) Trichlorofluoromethane	6.46	103	2198	0.51274 ppb		86
10) Acetonitrile	7.61	41	14087	23.28560 ug/l		100
11) Acrolein	7.10	56	2641	20.57800 ppb		98
12) Acetone	7.23	43	2055	0.27063 ppb	#	49
13) Freon-113	7.40	101	6684	0.50772 ppb		89
14) 1,1-DCE	7.62	96	3915	0.47008 ppb	#	59
15) t-Butanol	7.70	59	1712	27.35488 ppb	#	80
16) Methyl Acetate	8.14	43	3299	0.18035 ppb		99
17) Iodomethane	8.11	142	3882	0.50550 ppb	#	65
18) Acrylonitrile	8.54	53	831	0.51484 ppb	#	9
19) Methylene chloride	8.41	84	15756	0.57681 ppb		85
20) Carbon disulfide	8.50	76	4171	0.50074 ppb	#	82
21) Methyl t-butyl ether (MtBE	8.85	73	10177	0.48562 ppb		92
22) Trans-1,2-DCE	9.04	96	7924	0.57374 ppb		78
23) Diisopropyl Ether	9.69	45	22977	0.51396 ppb	#	82
24) 1,1-DCA	9.72	63	11057	0.49106 ppb	#	90
25) Vinyl Acetate	9.35	43	2063	0.84547 ppb		98
26) Ethyl tert Butyl Ether	10.38	59	14912	0.49014 ppb		97
27) MEK (2-Butanone)	10.38	43	946	0.67885 ppb	#	69
28) Cis-1,2-DCE	10.76	96	8250	0.54745 ppb	#	71
29) 2,2-Dichloropropane	10.74	77	8264	0.43924 ppb	#	66
30) Chloroform	11.03	83	11482	0.47717 ppb		94
31) Bromochloromethane	11.26	128	2213	0.48375 ppb	#	61
33) 1,1,1-TCA	11.77	97	10478	0.50436 ppb		91
34) Cyclohexane	11.93	56	9779	0.49425 ppb		87
35) 1,1-Dichloropropene	12.04	75	8126	0.56771 ppb		90
36) 2,2,4-Trimethylpentane	12.11	57	20448	0.53142 ppb		94
38) Carbon Tetrachloride	12.25	117	2351	1.05673 ppb		81
39) Tert Amyl Methyl Ether	12.28	73	12890	0.53720 ppb	#	91
40) 1,2-DCA	12.30	62	5325	0.52447 ppb		99
41) Benzene	12.43	78	25218	0.53029 ppb		95
42) TCE	13.46	95	6155	0.46877 ppb		91

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C08W.D Vial: 1
Acq On : 25 Jan 12 17:53 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.14	43	68498	21.20229	ppb		93
44)	1,2-Dichloropropane	13.71	63	6075	0.48250	ppb	#	87
45)	Bromodichloromethane	14.05	83	6568	0.44982	ppb	#	94
46)	Methyl Cyclohexane	13.75	83	8805	0.48048	ppb		93
47)	Dibromomethane	14.10	93	2419	0.46801	ppb	#	65
48)	2-Chloroethyl vinyl ether	14.51	63	1481	0.38206	ppb	#	73
49)	1-Bromo-2-chloroethane	14.81	63	4879	0.45237	ppb		90
50)	Cis-1,3-Dichloropropene	14.94	75	12297	0.44945	ppb		94
51)	Toluene	15.57	91	27232	0.48787	ppb		97
52)	Trans-1,3-Dichloropropene	15.73	75	5210	0.43044	ppb		100
53)	1,1,2-TCA	16.00	83	2135	0.37167	ppb		79
56)	1,2-EDB	17.26	107	2755	0.41215	ppb	#	58
57)	Tetrachloroethene	16.72	164	6302	0.51743	ppb	#	74
58)	1-Chlorohexane	17.64	91	10496	0.46868	ppb		85
59)	1,1,1,2-Tetrachloroethane	18.07	131	5334	0.42383	ppb		80
60)	m&p-Xylene	18.29	106	25322	0.95322	ppb		93
61)	o-Xylene	19.04	106	11632	0.44091	ppb		86
62)	Styrene	19.05	104	20833	0.52849	ppb		92
64)	2-Hexanone	15.99	43	177	0.07269	ppb	#	25
65)	1,3-Dichloropropane	16.42	76	6293	0.51170	ppb	#	61
66)	Dibromochloromethane	16.90	129	3428	0.38372	ppb		99
67)	Chlorobenzene	18.03	112	18573	0.48174	ppb		96
68)	Ethylbenzene	18.15	91	35115	0.49913	ppb		89
69)	Bromoform	19.56	173	1636	1.34106	ppb	#	32
71)	MIBK (methyl isobutyl keto	14.62	43	2987	0.50596	ppb		97
72)	Isopropylbenzene	19.66	105	34102	0.48798	ppb	#	89
73)	1,1,2,2-Tetrachloroethane	19.82	83	2531	0.39209	ppb	#	66
74)	1,2,3-Trichloropropane	20.07	110	595	0.91630	ppb	#	19
75)	t-1,4-Dichloro-2-Butene	20.12	53	520	0.65455	ppb	#	51
76)	Bromobenzene	20.40	156	8338	0.50340	ppb		82
77)	n-Propylbenzene	20.37	91	45672	0.52535	ppb		95
78)	4-Ethyltoluene	20.57	105	24548	0.48607	ppb		99
79)	2-Chlorotoluene	20.66	91	28507	0.51820	ppb		94
80)	1,3,5-Trimethylbenzene	20.63	105	29122	0.51217	ppb		96
81)	4-Chlorotoluene	20.74	91	25499	0.52273	ppb		91
82)	Tert-Butylbenzene	21.27	119	34942	0.53673	ppb		93
83)	1,2,4-Trimethylbenzene	21.34	105	29046	0.51379	ppb		82
84)	Sec-Butylbenzene	21.68	105	40629	0.50586	ppb		97
85)	p-Isopropyltoluene	21.91	119	33628	0.52136	ppb		94
86)	Benzyl Chloride	22.35	91	6177	0.47375	ppb		95
87)	1,3-DCB	22.05	146	15513	0.47556	ppb		95
88)	1,4-DCB	22.22	146	16133	0.50871	ppb	#	88
89)	Hexachloroethane	23.53	117	2818	0.91552	ppb		86
90)	n-Butylbenzene	22.63	91	30637	0.51748	ppb		97
91)	1,2-DCB	22.86	146	14213	0.51974	ppb		93
92)	1,2-Dibromo-3-chloropropan	24.07	155	779	0.78370	ppb	#	30
93)	1,2,4-Trichlorobenzene	25.52	180	4124	0.52737	ppb		97
94)	Hexachlorobutadiene	25.77	223	6978	0.67994	ppb		97
95)	Naphthalene	25.88	128	11028	0.47151	ppb		98
96)	1,2,3-Trichlorobenzene	26.22	180	2901	0.46133	ppb		86

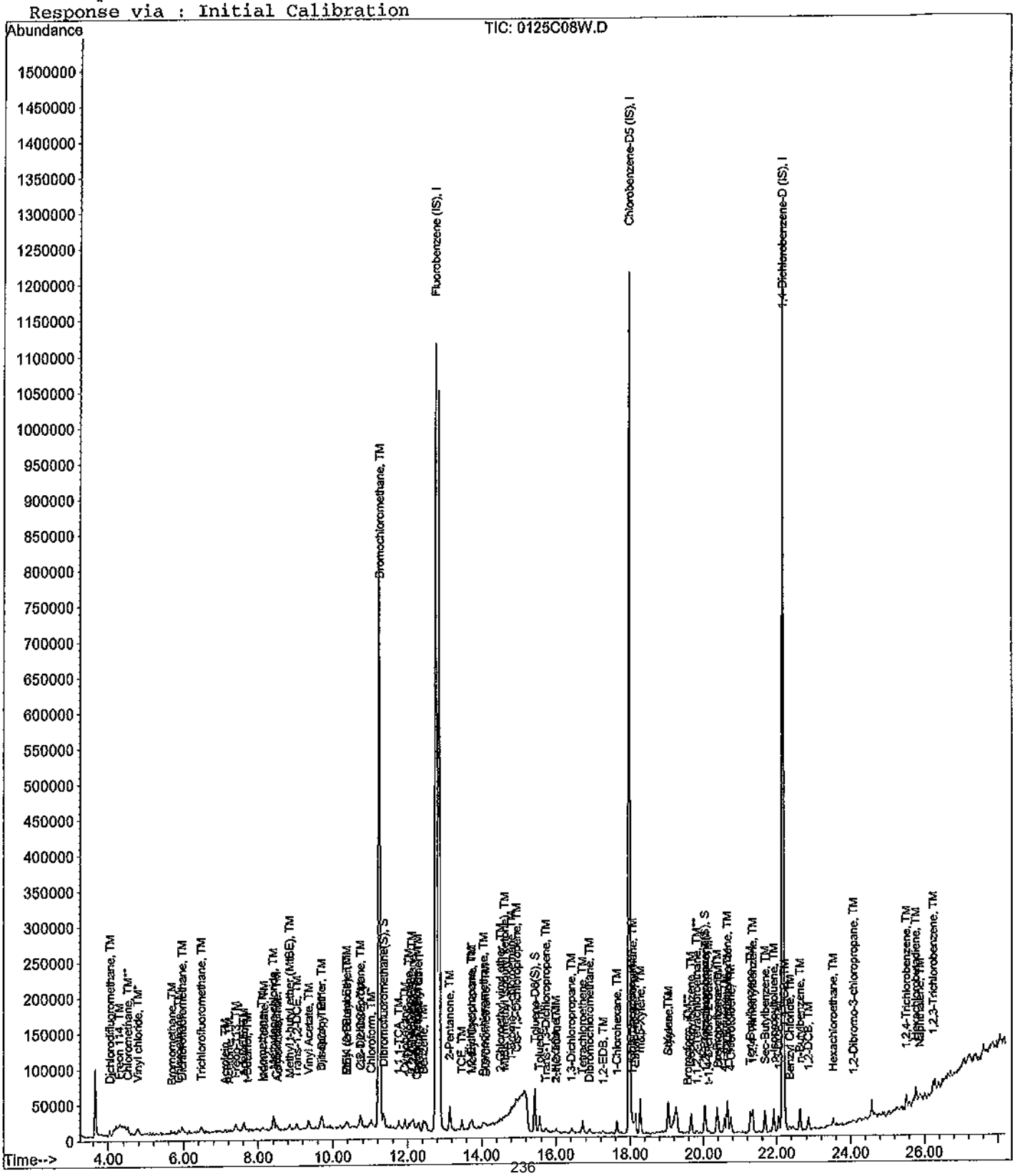
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C08W.D Vial: 1
Acq On : 25 Jan 12 17:53 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C09W.D Vial: 1
Acq On : 25 Jan 12 18:30 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.77	96	567492	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	17.97	117	451456	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	236096	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.35	111	31163	2.06284 ppb		0.00
Spiked Amount 24.119			Recovery =	8.553%		
37) 1,2-DCA-D4(S)	12.16	65	23435	2.15010 ppb		0.00
Spiked Amount 22.874			Recovery =	9.399%		
55) Toluene-D8(S)	15.43	98	120732	2.11621 ppb		0.00
Spiked Amount 24.755			Recovery =	8.548%		
63) 4-Bromofluorobenzene(S)	20.04	95	42304	2.12169 ppb		0.00
Spiked Amount 26.777			Recovery =	7.925%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.04	85	16888	1.47149 ppb		93
3) Freon 114	4.31	85	9499	1.09660 ppb		90
4) Chloromethane	4.52	50	8946	0.76644 ppb		98
5) Vinyl chloride	4.79	62	7587	1.19712 ppb		92
6) Bromomethane	5.68	94	1919	1.78211 ppb	#	66
7) Chloroethane	5.87	64	4831	1.09120 ppb		96
8) Dichlorofluoromethane	5.96	67	32290	0.99653 ppb		93
9) Trichlorofluoromethane	6.46	103	4169	0.97747 ppb		93
10) Acetonitrile	7.59	41	30779	51.13552 ug/l		100
11) Acrolein	7.10	56	6231	48.79685 ppb		96
12) Acetone	7.24	43	2474	0.66173 ppb	#	84
13) Freon-113	7.40	101	13295	1.01502 ppb		93
14) 1,1-DCE	7.61	96	10894	1.31471 ppb		96
15) t-Butanol	7.70	59	2614	41.97936 ppb		99
16) Methyl Acetate	8.13	43	6119	0.87301 ppb		94
17) Iodomethane	8.11	142	13890	1.03343 ppb	#	82
18) Acrylonitrile	8.50	53	1387	0.86367 ppb	#	67
19) Methylene chloride	8.41	84	14883	0.48919 ppb		99
20) Carbon disulfide	8.50	76	7919	0.95553 ppb		99
21) Methyl t-butyl ether (MtBE	8.82	73	19432	0.93196 ppb	#	81
22) Trans-1,2-DCE	9.03	96	11876	1.00520 ppb		95
23) Diisopropyl Ether	9.69	45	43342	0.97442 ppb		98
24) 1,1-DCA	9.71	63	21615	0.96482 ppb	#	95
25) Vinyl Acetate	9.36	43	2861	1.19879 ppb	#	80
26) Ethyl tert Butyl Ether	10.38	59	30596	1.01077 ppb	#	86
27) MEK (2-Butanone)	10.37	43	1320	0.99007 ppb	#	69
28) Cis-1,2-DCE	10.74	96	16795	1.12013 ppb		94
29) 2,2-Dichloropropane	10.75	77	16868	0.90111 ppb		100
30) Chloroform	11.02	83	22769	0.95104 ppb		91
31) Bromochloromethane	11.24	128	4654	1.02250 ppb	#	55
33) 1,1,1-TCA	11.76	97	18516	0.89579 ppb		99
34) Cyclohexane	11.93	56	17929	0.91077 ppb		91
35) 1,1-Dichloropropene	12.04	75	14401	1.01122 ppb		96
36) 2,2,4-Trimethylpentane	12.10	57	40334	1.05355 ppb		97
38) Carbon Tetrachloride	12.23	117	6728	1.32906 ppb		77
39) Tert Amyl Methyl Ether	12.29	73	23556	0.98670 ppb	#	83
40) 1,2-DCA	12.31	62	9406	0.93112 ppb	#	82
41) Benzene	12.42	78	43396	0.91717 ppb		97
42) TCE	13.46	95	12757	0.97652 ppb		91

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C09W.D Vial: 1
Acq On : 25 Jan 12 18:30 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.13	43	158637	49.35243	ppb		99
44)	1,2-Dichloropropane	13.69	63	13474	1.07559	ppb	#	93
45)	Bromodichloromethane	14.04	83	12532	0.86264	ppb	#	95
46)	Methyl Cyclohexane	13.75	83	17279	0.94768	ppb		97
47)	Dibromomethane	14.10	93	4287	0.83363	ppb		85
48)	2-Chloroethyl vinyl ether	14.49	63	4119	1.06799	ppb		86
49)	1-Bromo-2-chloroethane	14.81	63	9953	0.92750	ppb		93
50)	Cis-1,3-Dichloropropene	14.93	75	15524	0.64354	ppb		92
51)	Toluene	15.56	91	56349	1.01464	ppb		100
52)	Trans-1,3-Dichloropropene	15.74	75	10280	0.85362	ppb		89
53)	1,1,2-TCA	16.01	83	5523	0.96636	ppb	#	58
56)	1,2-EDB	17.25	107	6012	0.89443	ppb	#	98
57)	Tetrachloroethene	16.72	164	12037	0.98283	ppb		87
58)	1-Chlorohexane	17.64	91	21368	0.94887	ppb		97
59)	1,1,1,2-Tetrachloroethane	18.08	131	12171	0.96174	ppb		97
60)	m&p-Xylene	18.28	106	53224	1.99249	ppb		98
61)	o-Xylene	19.03	106	27361	1.03138	ppb		71
62)	Styrene	19.05	104	36876	0.93029	ppb		97
64)	2-Hexanone	16.07	43	1726	0.70487	ppb		96
65)	1,3-Dichloropropane	16.43	76	12084	0.97715	ppb	#	82
66)	Dibromochloromethane	16.89	129	7856	0.87452	ppb		82
67)	Chlorobenzene	18.02	112	38635	0.99657	ppb		96
68)	Ethylbenzene	18.14	91	70940	1.00279	ppb		97
69)	Bromoform	19.57	173	3514	1.64917	ppb		95
71)	MIBK (methyl isobutyl keto	14.62	43	5372	1.06220	ppb		85
72)	Isopropylbenzene	19.66	105	68226	0.96674	ppb		95
73)	1,1,2,2-Tetrachloroethane	19.82	83	6766	1.03793	ppb	#	74
74)	1,2,3-Trichloropropane	20.06	110	933	1.34077	ppb	#	72
75)	t-1,4-Dichloro-2-Butene	20.13	53	1368	1.15869	ppb	#	73
76)	Bromobenzene	20.39	156	16361	0.97815	ppb		88
77)	n-Propylbenzene	20.36	91	86117	0.98091	ppb		99
78)	4-Ethyltoluene	20.56	105	49118	0.96309	ppb		100
79)	2-Chlorotoluene	20.66	91	60274	1.08497	ppb		92
80)	1,3,5-Trimethylbenzene	20.64	105	57382	0.99934	ppb		93
81)	4-Chlorotoluene	20.74	91	50126	1.01756	ppb		95
82)	Tert-Butylbenzene	21.28	119	65649	0.99857	ppb		94
83)	1,2,4-Trimethylbenzene	21.33	105	56922	0.99705	ppb		85
84)	Sec-Butylbenzene	21.68	105	80418	0.99149	ppb		99
85)	p-Isopropyltoluene	21.91	119	63519	0.97517	ppb		94
86)	Benzyl Chloride	22.35	91	13537	1.02809	ppb		90
87)	1,3-DCB	22.05	146	32641	0.99086	ppb		93
88)	1,4-DCB	22.22	146	31355	0.97904	ppb		94
89)	Hexachloroethane	23.53	117	7172	1.19446	ppb		90
90)	n-Butylbenzene	22.62	91	58161	0.97280	ppb		92
91)	1,2-DCB	22.85	146	28813	1.04335	ppb		95
92)	1,2-Dibromo-3-chloropropan	24.20	155	332	0.33074	ppb		90
93)	1,2,4-Trichlorobenzene	25.52	180	6944	0.87932	ppb		91
94)	Hexachlorobutadiene	25.76	223	10492	1.04022	ppb		84
95)	Naphthalene	25.87	128	21471	0.90904	ppb		99
96)	1,2,3-Trichlorobenzene	26.23	180	6732	1.06010	ppb		92

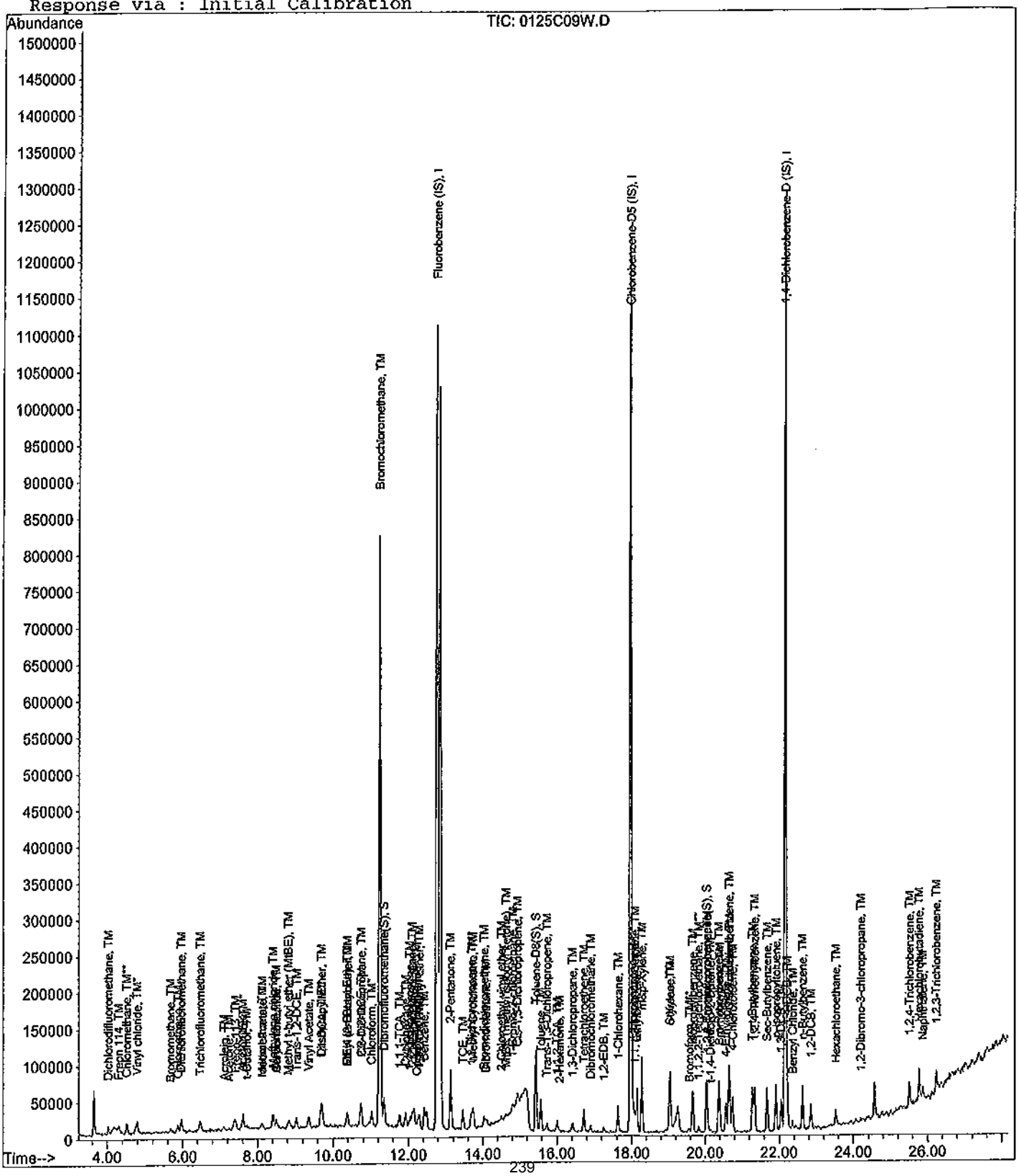
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C09W.D Vial: 1
Acq On : 25 Jan 12 18:30 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C10W.D Vial: 1
Acq On : 25 Jan 12 19:07 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.77	96	556179	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	17.96	117	453376	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	239104	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.36	111	129313	8.73400 ppb		0.00
Spiked Amount 24.119			Recovery	= 36.212%		
37) 1,2-DCA-D4(S)	12.16	65	97644	9.14081 ppb		0.00
Spiked Amount 22.874			Recovery	= 39.962%		
55) Toluene-D8(S)	15.43	98	513809	8.96798 ppb		0.00
Spiked Amount 24.755			Recovery	= 36.227%		
63) 4-Bromofluorobenzene(S)	20.03	95	174130	8.69624 ppb		0.00
Spiked Amount 26.777			Recovery	= 32.475%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.04	85	61634	3.60407 ppb		99
3) Freon 114	4.29	85	39001	4.59400 ppb		95
4) Chloromethane	4.52	50	35617	4.08849 ppb		96
5) Vinyl chloride	4.79	62	28480	4.58516 ppb		99
6) Bromomethane	5.68	94	13833	4.54820 ppb		94
7) Chloroethane	5.87	64	19896	4.58541 ppb		92
8) Dichlorofluoromethane	5.96	67	170496	5.36884 ppb		97
9) Trichlorofluoromethane	6.47	103	17832	4.26594 ppb		81
10) Acetonitrile	7.60	41	63024	106.83641 ug/l		100
11) Acrolein	7.11	56	13535	108.15272 ppb		89
12) Acetone	7.24	43	6861	4.78479 ppb		96
13) Freon-113	7.40	101	62998	4.90746 ppb		96
14) 1,1-DCE	7.62	96	39339	4.84407 ppb		92
15) t-Butanol	7.70	59	5430	88.97648 ppb		99
16) Methyl Acetate	8.13	43	22190	4.90746 ppb		92
17) Iodomethane	8.11	142	87938	5.02604 ppb		98
18) Acrylonitrile	8.50	53	8752	5.56063 ppb	#	69
19) Methylene chloride	8.42	84	53591	4.88420 ppb		85
20) Carbon disulfide	8.49	76	41040	5.05271 ppb		97
21) Methyl t-butyl ether (MtBE	8.83	73	102628	5.02214 ppb		93
22) Trans-1,2-DCE	9.03	96	48613	5.08266 ppb		90
23) Diisopropyl Ether	9.68	45	231146	5.30235 ppb		90
24) 1,1-DCA	9.72	63	111662	5.08561 ppb		94
25) Vinyl Acetate	9.36	43	12332	5.44771 ppb		100
26) Ethyl tert Butyl Ether	10.38	59	154461	5.20657 ppb	#	89
27) MEK (2-Butanone)	10.38	43	5826	4.80824 ppb	#	90
28) Cis-1,2-DCE	10.75	96	72731	4.94942 ppb		97
29) 2,2-Dichloropropane	10.74	77	99174	5.40577 ppb		96
30) Chloroform	11.03	83	119532	5.09431 ppb		96
31) Bromochloromethane	11.26	128	23651	5.30191 ppb	#	79
33) 1,1,1-TCA	11.76	97	100574	4.96467 ppb		99
34) Cyclohexane	11.94	56	98431	5.10188 ppb		98
35) 1,1-Dichloropropene	12.03	75	67142	4.81052 ppb		90
36) 2,2,4-Trimethylpentane	12.11	57	175956	4.68955 ppb		96
38) Carbon Tetrachloride	12.23	117	62766	4.88550 ppb		88
39) Tert Amyl Methyl Ether	12.29	73	116566	4.98194 ppb		97
40) 1,2-DCA	12.30	62	51923	5.24451 ppb		96
41) Benzene	12.43	78	233358	5.03231 ppb		99
42) TCE	13.47	95	64648	5.04930 ppb		92

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C10W.D Vial: 1
Acq On : 25 Jan 12 19:07 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.13	43	319741	101.49568	ppb		99
44)	1,2-Dichloropropane	13.69	63	63597	5.18002	ppb		97
45)	Bromodichloromethane	14.05	83	71694	5.03541	ppb		98
46)	Methyl Cyclohexane	13.75	83	91479	5.11927	ppb		98
47)	Dibromomethane	14.09	93	26998	5.35670	ppb		98
48)	2-Chloroethyl vinyl ether	14.50	63	18521	4.89990	ppb		99
49)	1-Bromo-2-chloroethane	14.81	63	55069	5.23616	ppb		90
50)	Cis-1,3-Dichloropropene	14.94	75	86045	4.90842	ppb		87
51)	Toluene	15.56	91	279940	5.14321	ppb		98
52)	Trans-1,3-Dichloropropene	15.73	75	58020	4.91583	ppb		98
53)	1,1,2-TCA	16.01	83	30541	5.45244	ppb		98
56)	1,2-EDB	17.26	107	33255	4.92655	ppb		92
57)	Tetrachloroethene	16.72	164	63887	5.19435	ppb		98
58)	1-Chlorohexane	17.63	91	115471	5.10589	ppb		97
59)	1,1,1,2-Tetrachloroethane	18.09	131	64812	5.09967	ppb		86
60)	m&p-Xylene	18.28	106	272808	10.16956	ppb		98
61)	o-Xylene	19.03	106	137386	5.15684	ppb		96
62)	Styrene	19.05	104	204126	5.12777	ppb		95
64)	2-Hexanone	16.05	43	11766	4.78469	ppb		79
65)	1,3-Dichloropropane	16.43	76	63768	5.13465	ppb		100
66)	Dibromochloromethane	16.90	129	44085	4.88669	ppb		89
67)	Chlorobenzene	18.03	112	191681	4.92337	ppb		98
68)	Ethylbenzene	18.14	91	357885	5.03752	ppb		98
69)	Bromoform	19.56	173	22083	4.69499	ppb		99
71)	MIBK (methyl isobutyl keto	14.62	43	19770	4.40339	ppb		93
72)	Isopropylbenzene	19.66	105	366313	5.12524	ppb		98
73)	1,1,2,2-Tetrachloroethane	19.82	83	32692	4.95201	ppb		98
74)	1,2,3-Trichloropropane	20.08	110	3403	4.46490	ppb		95
75)	t-1,4-Dichloro-2-Butene	20.15	53	7279	4.63935	ppb	#	71
76)	Bromobenzene	20.40	156	86286	5.09376	ppb		89
77)	n-Propylbenzene	20.36	91	447141	5.02905	ppb		98
78)	4-Ethyltoluene	20.57	105	270556	5.23822	ppb		96
79)	2-Chlorotoluene	20.66	91	284669	5.05976	ppb		97
80)	1,3,5-Trimethylbenzene	20.63	105	293893	5.05390	ppb		98
81)	4-Chlorotoluene	20.74	91	244308	4.89709	ppb		94
82)	Tert-Butylbenzene	21.28	119	324784	4.87806	ppb		99
83)	1,2,4-Trimethylbenzene	21.34	105	296605	5.13001	ppb		99
84)	Sec-Butylbenzene	21.68	105	410839	5.00162	ppb		100
85)	p-Isopropyltoluene	21.91	119	332554	5.04127	ppb		97
86)	Benzyl Chloride	22.36	91	56743	4.25524	ppb	#	95
87)	1,3-DCB	22.06	146	170720	5.11723	ppb		97
88)	1,4-DCB	22.22	146	156556	4.82689	ppb		96
89)	Hexachloroethane	23.53	117	55081	4.23882	ppb		95
90)	n-Butylbenzene	22.63	91	294605	4.86558	ppb		98
91)	1,2-DCB	22.85	146	138525	4.95304	ppb		97
92)	1,2-Dibromo-3-chloropropan	24.07	155	5232	5.14663	ppb		78
93)	1,2,4-Trichlorobenzene	25.52	180	40208	5.02747	ppb		98
94)	Hexachlorobutadiene	25.77	223	49292	5.03284	ppb		89
95)	Naphthalene	25.87	128	119284	4.98673	ppb		96
96)	1,2,3-Trichlorobenzene	26.22	180	30753	4.78182	ppb		98

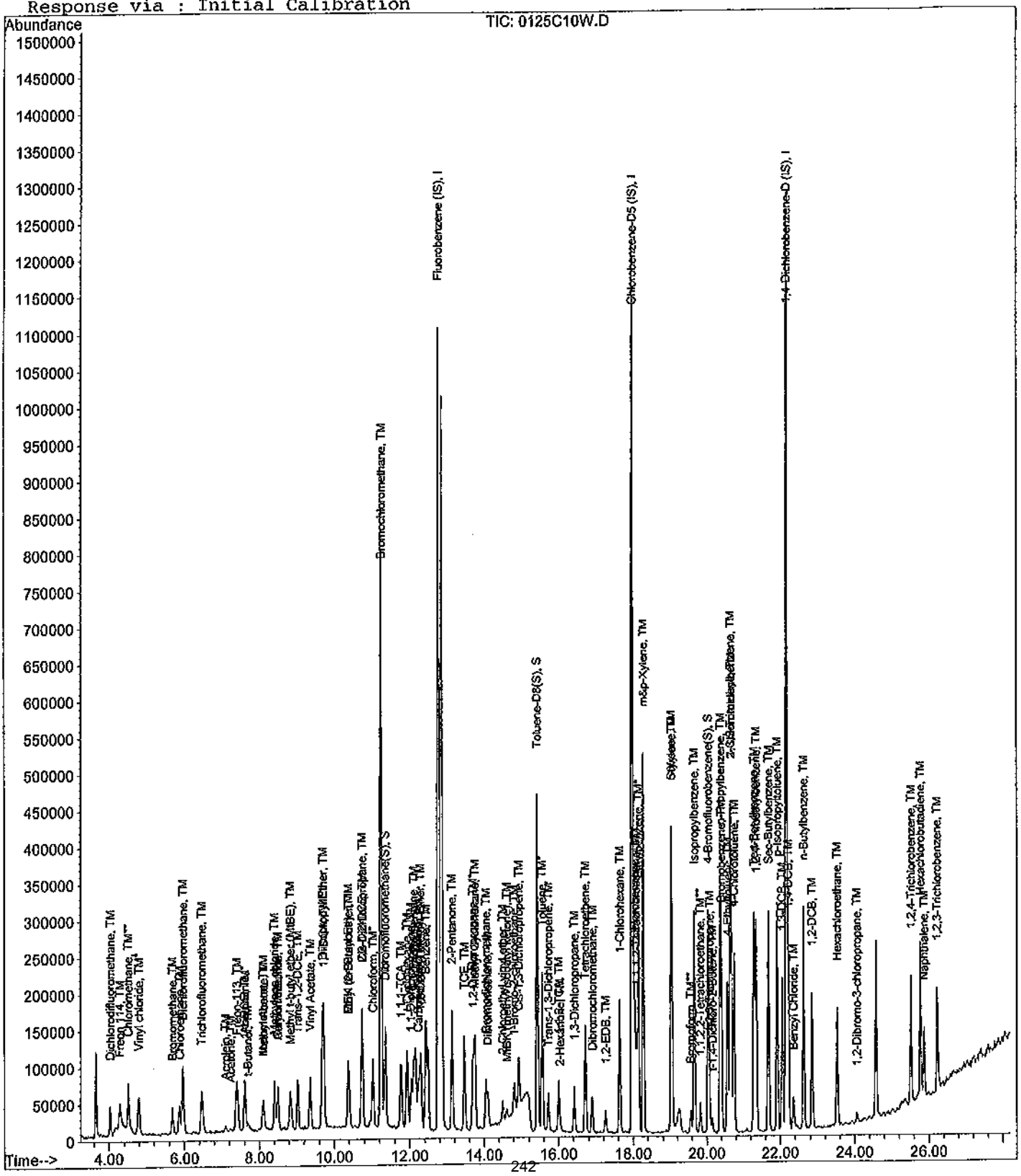
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C10W.D Vial: 1
Acq On : 25 Jan 12 19:07 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C11W.D Vial: 1
Acq On : 25 Jan 12 19:44 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@10ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.77	96	572455	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	17.96	117	460544	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	244544	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.36	111	389933	25.58787 ppb	0.00
Spiked Amount 24.119			Recovery = 106.090%		
37) 1,2-DCA-D4(S)	12.16	65	276786	25.17424 ppb	0.00
Spiked Amount 22.874			Recovery = 110.054%		
55) Toluene-D8(S)	15.43	98	1455147	25.00273 ppb	0.00
Spiked Amount 24.755			Recovery = 101.001%		
63) 4-Bromofluorobenzene(S)	20.03	95	492346	24.20560 ppb	0.00
Spiked Amount 26.777			Recovery = 90.398%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.04	85	205099	10.14432 ppb	100
3) Freon 114	4.29	85	84782	9.70268 ppb	100
4) Chloromethane	4.51	50	91933	10.73304 ppb	100
5) Vinyl chloride	4.77	62	55216	8.63679 ppb	100
6) Bromomethane	5.68	94	34672	9.14278 ppb	100
7) Chloroethane	5.86	64	45340	10.15237 ppb	100
8) Dichlorofluoromethane	5.95	67	342769	10.48676 ppb	100
9) Trichlorofluoromethane	6.46	103	45672	10.61545 ppb	100
10) Acetonitrile	7.60	41	73003	120.23400 ug/l	100
11) Acrolein	7.10	56	16884	131.07739 ppb	100
12) Acetone	7.23	43	12320	9.53278 ppb	100
13) Freon-113	7.40	101	138845	10.50832 ppb	100
14) 1,1-DCE	7.62	96	77967	9.32762 ppb	100
15) t-Butanol	7.70	59	8340	132.77451 ppb	100
16) Methyl Acetate	8.13	43	43905	10.00670 ppb	100
17) Iodomethane	8.10	142	187094	10.06678 ppb	100
18) Acrylonitrile	8.50	53	15663	9.66862 ppb	100
19) Methylene chloride	8.41	84	98512	9.63025 ppb	100
20) Carbon disulfide	8.49	76	84600	10.11954 ppb	100
21) Methyl t-butyl ether (MtBE	8.84	73	210387	10.00264 ppb	100
22) Trans-1,2-DCE	9.04	96	94555	9.85267 ppb	100
23) Diisopropyl Ether	9.69	45	469405	10.46172 ppb	100
24) 1,1-DCA	9.72	63	234479	10.37563 ppb	100
25) Vinyl Acetate	9.36	43	22392	9.64995 ppb	100
26) Ethyl tert Butyl Ether	10.39	59	319110	10.45072 ppb	100
27) MEK (2-Butanone)	10.37	43	12285	10.01047 ppb	100
28) Cis-1,2-DCE	10.75	96	148683	9.83036 ppb	100
29) 2,2-Dichloropropane	10.75	77	197124	10.43932 ppb	100
30) Chloroform	11.02	83	245298	10.15706 ppb	100
31) Bromochloromethane	11.25	128	48926	10.65603 ppb	100
33) 1,1,1-TCA	11.76	97	202839	9.72812 ppb	100
34) Cyclohexane	11.93	56	194334	9.78634 ppb	100
35) 1,1-Dichloropropene	12.03	75	135415	9.42622 ppb	100
36) 2,2,4-Trimethylpentane	12.11	57	355997	9.21822 ppb	100
38) Carbon Tetrachloride	12.23	117	137448	9.36643 ppb	100
39) Tert Amyl Methyl Ether	12.29	73	244464	10.15114 ppb	100
40) 1,2-DCA	12.31	62	106381	10.43956 ppb	100
41) Benzene	12.43	78	467510	9.79510 ppb	100
42) TCE	13.47	95	135878	10.31094 ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C11W.D Vial: 1
Acq On : 25 Jan 12 19:44 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@10ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Pentanone	13.13	43	436867	134.73230 ppb	100
44) 1,2-Dichloropropane	13.69	63	131378	10.39659 ppb	100
45) Bromodichloromethane	14.05	83	154139	10.51811 ppb	100
46) Methyl Cyclohexane	13.75	83	185326	10.07618 ppb	100
47) Dibromomethane	14.10	93	52741	10.16688 ppb	100
48) 2-Chloroethyl vinyl ether	14.50	63	40574	10.42902 ppb	100
49) 1-Bromo-2-chloroethane	14.81	63	114658	10.59213 ppb	100
50) Cis-1,3-Dichloropropene	14.94	75	171642	9.76858 ppb	100
51) Toluene	15.57	91	562624	10.04294 ppb	100
52) Trans-1,3-Dichloropropene	15.73	75	129060	10.62390 ppb	100
53) 1,1,2-TCA	16.01	83	63227	10.96689 ppb	100
56) 1,2-EDB	17.26	107	72456	10.56691 ppb	100
57) Tetrachloroethene	16.72	164	125240	10.02418 ppb	100
58) 1-Chlorohexane	17.64	91	230749	10.04444 ppb	100
59) 1,1,1,2-Tetrachloroethane	18.08	131	137579	10.65678 ppb	100
60) m&p-Xylene	18.28	106	554797	20.35948 ppb	100
61) o-Xylene	19.03	106	275138	10.16669 ppb	100
62) Styrene	19.05	104	419854	10.38284 ppb	100
64) 2-Hexanone	16.04	43	27827	11.13983 ppb	100
65) 1,3-Dichloropropane	16.42	76	127734	10.12515 ppb	100
66) Dibromochloromethane	16.90	129	98716	10.77207 ppb	100
67) Chlorobenzene	18.03	112	407221	10.29678 ppb	100
68) Ethylbenzene	18.14	91	711136	9.85403 ppb	100
69) Bromoform	19.56	173	51854	9.44970 ppb	100
71) MIBK (methyl isobutyl keto	14.61	43	43824	9.78470 ppb	100
72) Isopropylbenzene	19.66	105	742282	10.15455 ppb	100
73) 1,1,2,2-Tetrachloroethane	19.82	83	73195	10.84055 ppb	100
74) 1,2,3-Trichloropropane	20.08	110	7309	9.29996 ppb	100
75) t-1,4-Dichloro-2-Butene	20.15	53	15977	9.56636 ppb	100
76) Bromobenzene	20.39	156	168258	9.71189 ppb	100
77) n-Propylbenzene	20.36	91	894536	9.83715 ppb	100
78) 4-Ethyltoluene	20.57	105	515659	9.76155 ppb	100
79) 2-Chlorotoluene	20.66	91	568158	9.87390 ppb	100
80) 1,3,5-Trimethylbenzene	20.63	105	603683	10.15024 ppb	100
81) 4-Chlorotoluene	20.74	91	491928	9.64122 ppb	100
82) Tert-Butylbenzene	21.28	119	637373	9.36000 ppb	100
83) 1,2,4-Trimethylbenzene	21.34	105	602189	10.18363 ppb	100
84) Sec-Butylbenzene	21.68	105	834301	9.93096 ppb	100
85) p-Isopropyltoluene	21.91	119	664611	9.85088 ppb	100
86) Benzyl Chloride	22.36	91	130466	9.56618 ppb	100
87) 1,3-DCB	22.05	146	344241	10.08889 ppb	100
88) 1,4-DCB	22.22	146	324377	9.77862 ppb	100
89) Hexachloroethane	23.53	117	133690	9.05421 ppb	100
90) n-Butylbenzene	22.63	91	599347	9.67838 ppb	100
91) 1,2-DCB	22.85	146	278024	9.71977 ppb	100
92) 1,2-Dibromo-3-chloropropan	24.07	155	9470	9.10826 ppb	100
93) 1,2,4-Trichlorobenzene	25.52	180	81728	9.99167 ppb	100
94) Hexachlorobutadiene	25.77	223	93224	9.35505 ppb	100
95) Naphthalene	25.87	128	255618	10.44853 ppb	100
96) 1,2,3-Trichlorobenzene	26.23	180	66752	10.14844 ppb	100

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

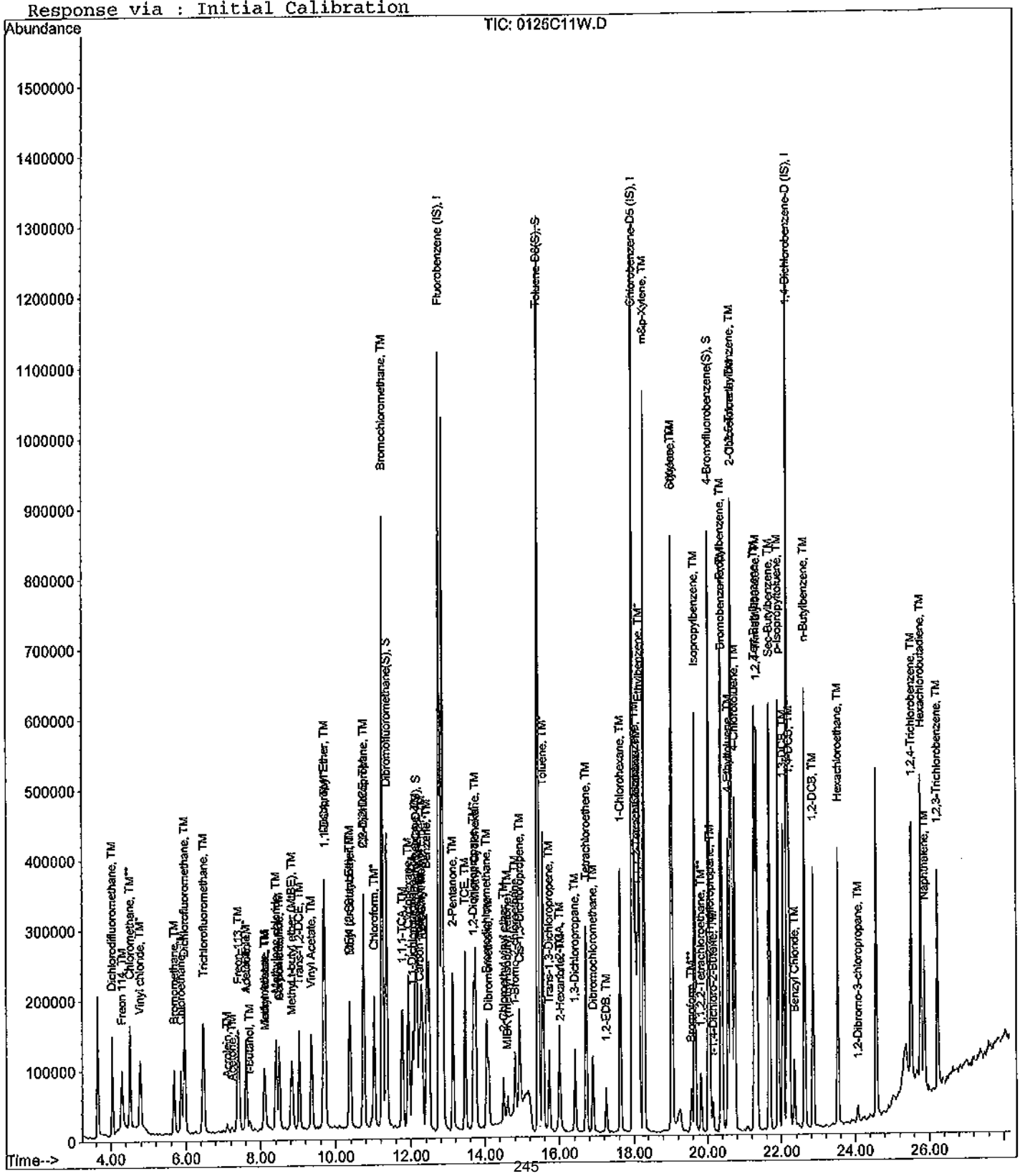
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C11W.D
Acq On : 25 Jan 12 19:44
Sample : Vol. Std. 01-25-12@10ug/L
Misc : Water 10mLw/ IS&S:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C12W.D Vial: 1
Acq On : 25 Jan 12 20:21 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@40ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.77	96	588171	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	17.96	117	466816	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	250496	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.35	111	1268809	81.03602 ppb		-0.01
Spiked Amount 24.119			Recovery = 335.981%			
37) 1,2-DCA-D4(S)	12.16	65	885812	78.41363 ppb		0.00
Spiked Amount 22.874			Recovery = 342.805%			
55) Toluene-D8(S)	15.43	98	4708845	79.82158 ppb		0.00
Spiked Amount 24.755			Recovery = 322.447%			
63) 4-Bromofluorobenzene(S)	20.03	95	1585242	76.88937 ppb		0.00
Spiked Amount 26.777			Recovery = 287.143%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.04	85	866695	40.19758 ppb		98
3) Freon 114	4.29	85	395913	44.09870 ppb		91
4) Chloromethane	4.52	50	352421	40.91473 ppb		100
5) Vinyl chloride	4.77	62	196544	29.92162 ppb		97
6) Bromomethane	5.68	94	172288	39.05036 ppb		94
7) Chloroethane	5.87	64	165444	36.05577 ppb		98
8) Dichlorofluoromethane	5.96	67	1372794	40.87737 ppb		96
9) Trichlorofluoromethane	6.47	103	184448	41.72535 ppb		99
10) Acetonitrile	7.59	41	115131	184.55108 ug/l		100
11) Acrolein	7.10	56	24359	184.05586 ppb		95
12) Acetone	7.23	43	49579	41.98010 ppb	#	90
13) Freon-113	7.40	101	586950	43.23565 ppb		94
14) 1,1-DCE	7.61	96	318520	37.08811 ppb		79
15) t-Butanol	7.70	59	10144	157.17940 ppb	#	90
16) Methyl Acetate	8.12	43	176137	40.87608 ppb		98
17) Iodomethane	8.10	142	777459	39.79433 ppb		98
18) Acrylonitrile	8.50	53	68511	41.16118 ppb		89
19) Methylene chloride	8.42	84	399885	41.45343 ppb		99
20) Carbon disulfide	8.49	76	336960	39.22893 ppb		99
21) Methyl t-butyl ether (MtBE	8.83	73	827501	38.29148 ppb		99
22) Trans-1,2-DCE	9.03	96	388137	40.19716 ppb		97
23) Diisopropyl Ether	9.68	45	1851924	40.17132 ppb		98
24) 1,1-DCA	9.72	63	939237	40.45047 ppb		98
25) Vinyl Acetate	9.35	43	92408	38.91528 ppb		98
26) Ethyl tert Butyl Ether	10.38	59	1288892	41.08280 ppb		97
27) MEK (2-Butanone)	10.38	43	48349	40.03374 ppb		92
28) Cis-1,2-DCE	10.75	96	595944	38.34875 ppb		96
29) 2,2-Dichloropropane	10.74	77	817189	42.12044 ppb		98
30) Chloroform	11.02	83	1013150	40.83059 ppb		97
31) Bromochloromethane	11.25	128	197770	41.92315 ppb		94
33) 1,1,1-TCA	11.76	97	864856	40.37004 ppb		97
34) Cyclohexane	11.93	56	860425	42.17180 ppb		99
35) 1,1-Dichloropropene	12.03	75	558801	37.85872 ppb		92
36) 2,2,4-Trimethylpentane	12.11	57	1531674	38.60155 ppb		97
38) Carbon Tetrachloride	12.23	117	647307	39.66547 ppb		96
39) Tert Amyl Methyl Ether	12.28	73	981742	39.67667 ppb		96
40) 1,2-DCA	12.30	62	417955	39.91953 ppb		95
41) Benzene	12.43	78	1945788	39.67813 ppb		98
42) TCE	13.47	95	561850	41.49610 ppb		93

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C12W.D Vial: 1
Acq On : 25 Jan 12 20:21 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@40ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.13	43	618102	185.53266	ppb		95
44)	1,2-Dichloropropane	13.69	63	527517	40.62960	ppb		99
45)	Bromodichloromethane	14.05	83	663605	44.07300	ppb		97
46)	Methyl Cyclohexane	13.75	83	797561	42.20476	ppb		99
47)	Dibromomethane	14.10	93	222972	41.83379	ppb		91
48)	2-Chloroethyl vinyl ether	14.50	63	172520	43.15914	ppb		93
49)	1-Bromo-2-chloroethane	14.81	63	477136	42.90015	ppb		92
50)	Cis-1,3-Dichloropropene	14.94	75	733315	41.48047	ppb		98
51)	Toluene	15.56	91	2342630	40.69901	ppb		99
52)	Trans-1,3-Dichloropropene	15.73	75	535639	42.91431	ppb		95
53)	1,1,2-TCA	16.01	83	271826	45.88910	ppb		95
56)	1,2-EDB	17.26	107	301691	43.40717	ppb		97
57)	Tetrachloroethene	16.72	164	542649	42.84996	ppb		97
58)	1-Chlorohexane	17.63	91	1019777	43.79419	ppb		99
59)	1,1,1,2-Tetrachloroethane	18.08	131	579065	44.25137	ppb		95
60)	m&p-Xylene	18.28	106	2265686	82.02716	ppb		98
61)	o-Xylene	19.03	106	1158631	42.23763	ppb		89
62)	Styrene	19.05	104	1766076	43.08763	ppb		98
64)	2-Hexanone	16.03	43	114627	45.27145	ppb		96
65)	1,3-Dichloropropane	16.42	76	541993	42.38519	ppb		96
66)	Dibromochloromethane	16.90	129	434372	46.76262	ppb		96
67)	Chlorobenzene	18.03	112	1652089	41.21261	ppb		98
68)	Ethylbenzene	18.14	91	2954399	40.38830	ppb		99
69)	Bromoform	19.56	173	236918	38.84249	ppb		89
71)	MIBK (methyl isobutyl keto	14.61	43	186752	41.35793	ppb		91
72)	Isopropylbenzene	19.66	105	3072103	41.02832	ppb		98
73)	1,1,2,2-Tetrachloroethane	19.82	83	308333	44.58060	ppb		94
74)	1,2,3-Trichloropropane	20.07	110	30856	40.39492	ppb		94
75)	t-1,4-Dichloro-2-Butene	20.15	53	71600	40.70336	ppb	#	60
76)	Bromobenzene	20.40	156	701635	39.53626	ppb		93
77)	n-Propylbenzene	20.36	91	3738519	40.13538	ppb		98
78)	4-Ethyltoluene	20.57	105	2200664	40.66926	ppb		97
79)	2-Chlorotoluene	20.66	91	2352419	39.91079	ppb		100
80)	1,3,5-Trimethylbenzene	20.64	105	2529254	41.51604	ppb		97
81)	4-Chlorotoluene	20.74	91	2013011	38.51527	ppb		95
82)	Tert-Butylbenzene	21.28	119	2712039	38.88073	ppb		98
83)	1,2,4-Trimethylbenzene	21.34	105	2508880	41.41962	ppb		98
84)	Sec-Butylbenzene	21.68	105	3554267	41.30234	ppb		99
85)	p-Isopropyltoluene	21.91	119	2809577	40.65412	ppb		98
86)	Benzyl Chloride	22.36	91	578117	41.38218	ppb		100
87)	1,3-DCB	22.06	146	1424972	40.77023	ppb		99
88)	1,4-DCB	22.22	146	1326824	39.04783	ppb		100
89)	Hexachloroethane	23.53	117	657147	40.66733	ppb		96
90)	n-Butylbenzene	22.63	91	2552217	40.23444	ppb		99
91)	1,2-DCB	22.85	146	1173317	40.04472	ppb		98
92)	1,2-Dibromo-3-chloropropan	24.07	155	48442	45.48451	ppb		92
93)	1,2,4-Trichlorobenzene	25.52	180	351803	41.98778	ppb		99
94)	Hexachlorobutadiene	25.77	223	411999	40.55067	ppb		94
95)	Naphthalene	25.87	128	1038384	41.43601	ppb		97
96)	1,2,3-Trichlorobenzene	26.22	180	274662	40.76524	ppb		98

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

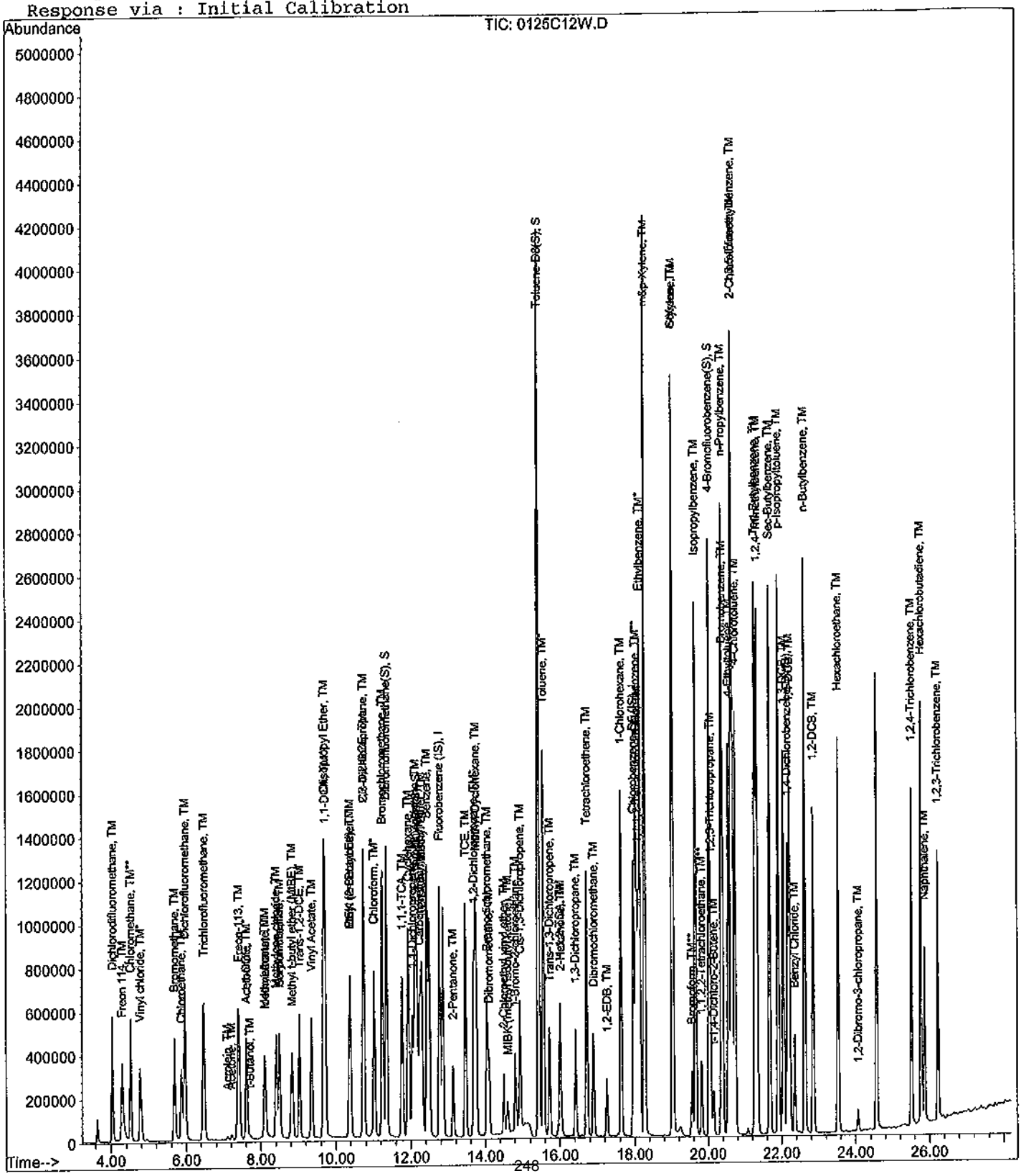
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C12W.D
Acq On : 25 Jan 12 20:21
Sample : Vol. Std. 01-25-12@40ug/L
Misc : Water 10mLw/ IS&S:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C13W.D Vial: 1
Acq On : 25 Jan 12 20:58 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.77	96	634396	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	17.96	117	510848	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	270208	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.36	111	1666218	98.66358 ppb	0.00
Spiked Amount 24.119			Recovery	= 409.069%	
37) 1,2-DCA-D4(S)	12.16	65	1131110	92.83207 ppb	0.00
Spiked Amount 22.874			Recovery	= 405.837%	
55) Toluene-D8(S)	15.43	98	6200385	96.04585 ppb	0.00
Spiked Amount 24.755			Recovery	= 387.985%	
63) 4-Bromofluorobenzene(S)	20.03	95	2030814	90.01086 ppb	0.00
Spiked Amount 26.777			Recovery	= 336.147%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.03	85	2274246	99.96840 ppb	98
3) Freon 114	4.29	85	1048470	108.27424 ppb	87
4) Chloromethane	4.51	50	921209	99.60927 ppb	99
5) Vinyl chloride	4.76	62	583808	82.40214 ppb	97
6) Bromomethane	5.68	94	488512	100.46317 ppb	92
7) Chloroethane	5.86	64	425883	86.05125 ppb	98
8) Dichlorofluoromethane	5.96	67	3513693	97.00286 ppb	94
9) Trichlorofluoromethane	6.47	103	488064	102.36370 ppb	99
10) Acetonitrile	7.59	41	123573	183.65006 ug/l	100
11) Acrolein	7.10	56	31326	219.45137 ppb	99
12) Acetone	7.22	43	123787	99.26997 ppb	94
13) Freon-113	7.40	101	1557366	106.35913 ppb	91
14) 1,1-DCE	7.61	96	848827	91.63478 ppb	85
15) t-Butanol	7.70	59	14624	210.08534 ppb #	92
16) Methyl Acetate	8.13	43	459084	99.65639 ppb	98
17) Iodomethane	8.10	142	2118512	100.07393 ppb	99
18) Acrylonitrile	8.50	53	179281	99.86307 ppb	85
19) Methylene chloride	8.42	84	1018566	99.46612 ppb	99
20) Carbon disulfide	8.49	76	898048	96.93282 ppb	100
21) Methyl t-butyl ether (MtBE	8.83	73	2181956	93.61012 ppb	97
22) Trans-1,2-DCE	9.04	96	1036480	99.93175 ppb	98
23) Diisopropyl Ether	9.68	45	4686372	94.24816 ppb	96
24) 1,1-DCA	9.72	63	2430435	97.04553 ppb	98
25) Vinyl Acetate	9.35	43	257047	100.44279 ppb	95
26) Ethyl tert Butyl Ether	10.38	59	3243807	95.86094 ppb	94
27) MEK (2-Butanone)	10.37	43	120512	99.99410 ppb	100
28) Cis-1,2-DCE	10.75	96	1530635	91.31888 ppb	96
29) 2,2-Dichloropropane	10.74	77	2181132	104.23067 ppb	97
30) Chloroform	11.02	83	2626848	98.14993 ppb	97
31) Bromochloromethane	11.25	128	514075	101.03297 ppb	90
33) 1,1,1-TCA	11.76	97	2272037	98.32727 ppb	100
34) Cyclohexane	11.93	56	2286667	103.90950 ppb	99
35) 1,1-Dichloropropene	12.04	75	1488085	93.47159 ppb	94
36) 2,2,4-Trimethylpentane	12.11	57	4214129	98.46672 ppb	97
38) Carbon Tetrachloride	12.23	117	1788696	100.19682 ppb	93
39) Tert Amyl Methyl Ether	12.28	73	2527973	94.72256 ppb	98
40) 1,2-DCA	12.30	62	1049210	92.90978 ppb	93
41) Benzene	12.43	78	5100220	96.42459 ppb	99
42) TCE	13.47	95	1471475	100.75880 ppb	92

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C13W.D Vial: 1
Acq On : 25 Jan 12 20:58 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43) 2-Pentanone	13.13	43	745455	207.45544	ppb		99
44) 1,2-Dichloropropane	13.69	63	1370846	97.88992	ppb		98
45) Bromodichloromethane	14.05	83	1749083	107.70022	ppb		100
46) Methyl Cyclohexane	13.75	83	2124177	104.21528	ppb		97
47) Dibromomethane	14.10	93	583841	101.55813	ppb		92
48) 2-Chloroethyl vinyl ether	14.50	63	473390	109.79830	ppb		95
49) 1-Bromo-2-chloroethane	14.81	63	1243293	103.64139	ppb		91
50) Cis-1,3-Dichloropropene	14.94	75	1888900	99.43992	ppb		99
51) Toluene	15.56	91	6051840	97.47894	ppb		96
52) Trans-1,3-Dichloropropene	15.73	75	1437232	106.75790	ppb		97
53) 1,1,2-TCA	16.01	83	685764	107.33378	ppb		92
56) 1,2-EDB	17.26	107	797615	104.86883	ppb		99
57) Tetrachloroethene	16.72	164	1411548	101.85470	ppb		98
58) 1-Chlorohexane	17.63	91	2658727	104.33718	ppb		98
59) 1,1,1,2-Tetrachloroethane	18.09	131	1530485	106.87657	ppb		93
60) m&p-Xylene	18.28	106	5986447	198.05286	ppb		98
61) o-Xylene	19.03	106	2950334	98.28327	ppb		88
62) Styrene	19.05	104	4531022	101.01676	ppb		97
64) 2-Hexanone	16.03	43	300823	108.56817	ppb		99
65) 1,3-Dichloropropane	16.43	76	1384598	98.94599	ppb		97
66) Dibromochloromethane	16.90	129	1163712	114.48183	ppb		95
67) Chlorobenzene	18.03	112	4254074	96.97409	ppb		97
68) Ethylbenzene	18.15	91	7843064	97.97747	ppb		99
69) Bromoform	19.57	173	682627	100.52259	ppb		92
71) MIBK (methyl isobutyl keto	14.60	43	483281	99.50790	ppb		89
72) Isopropylbenzene	19.67	105	8018900	99.28083	ppb		99
73) 1,1,2,2-Tetrachloroethane	19.82	83	809093	108.44936	ppb		99
74) 1,2,3-Trichloropropane	20.08	110	71896	99.92517	ppb		96
75) t-1,4-Dichloro-2-Butene	20.15	53	190273	99.77769	ppb	#	65
76) Bromobenzene	20.40	156	1790000	93.50610	ppb		92
77) n-Propylbenzene	20.36	91	9500115	94.54951	ppb		97
78) 4-Ethyltoluene	20.57	105	5947651	101.89682	ppb		98
79) 2-Chlorotoluene	20.66	91	5894295	92.70648	ppb		99
80) 1,3,5-Trimethylbenzene	20.64	105	6230788	94.81325	ppb		96
81) 4-Chlorotoluene	20.74	91	5327764	94.50057	ppb		95
82) Tert-Butylbenzene	21.28	119	6909981	91.83706	ppb		98
83) 1,2,4-Trimethylbenzene	21.34	105	6372936	97.53676	ppb		96
84) Sec-Butylbenzene	21.68	105	9146462	98.53270	ppb		99
85) p-Isopropyltoluene	21.91	119	7336115	98.40843	ppb		98
86) Benzyl Chloride	22.36	91	1521630	100.97392	ppb		99
87) 1,3-DCB	22.06	146	3597263	95.41389	ppb		97
88) 1,4-DCB	22.22	146	3449930	94.12315	ppb		99
89) Hexachloroethane	23.53	117	1759540	99.85998	ppb		98
90) n-Butylbenzene	22.63	91	6515407	95.21919	ppb		98
91) 1,2-DCB	22.86	146	2929261	92.68098	ppb		96
92) 1,2-Dibromo-3-chloropropan	24.07	155	124753	108.59131	ppb		94
93) 1,2,4-Trichlorobenzene	25.53	180	843585	93.33721	ppb		97
94) Hexachlorobutadiene	25.80	223	1093311	99.84128	ppb		93
95) Naphthalene	25.91	128	2710647	100.27564	ppb		97
96) 1,2,3-Trichlorobenzene	26.28	180	696663	95.85543	ppb		99

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

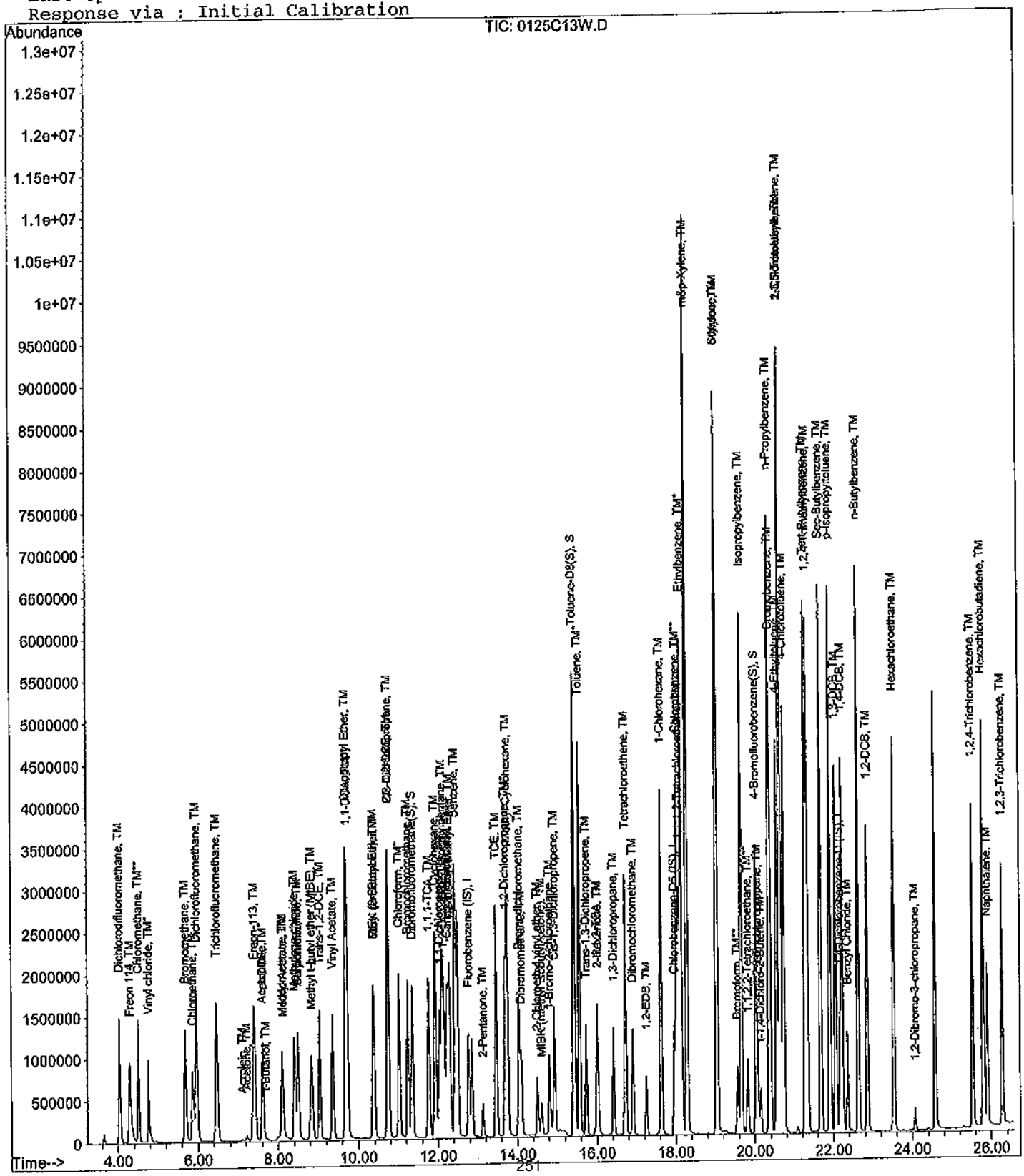
Quantitation Report

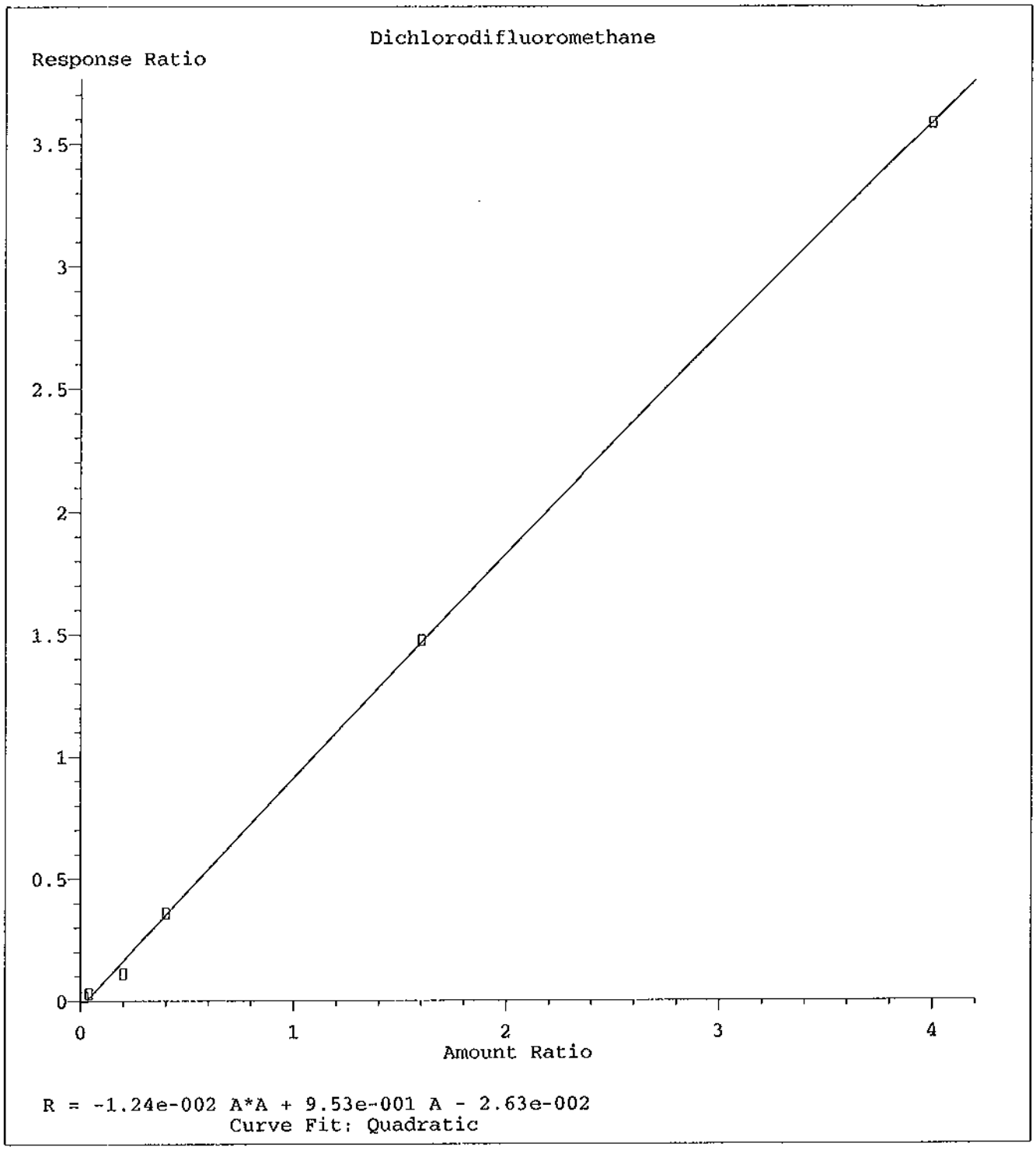
Data File : M:\CHICO\DATA\C120125\0125C13W.D
Acq On : 25 Jan 12 20:58
Sample : Vol. Std. 01-25-12@100ug/L
Misc : Water 10mLw/ IS&S:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

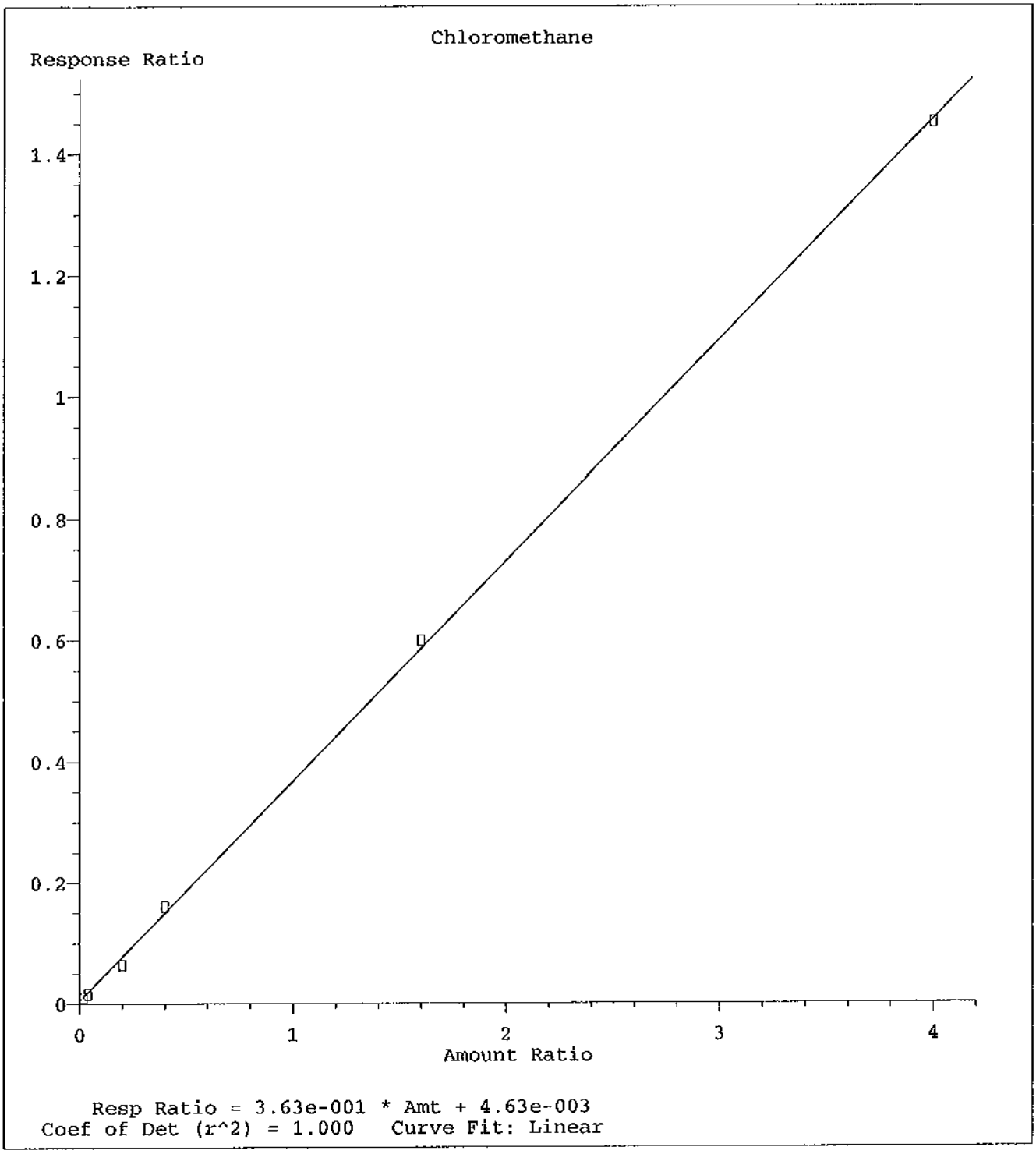
Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration

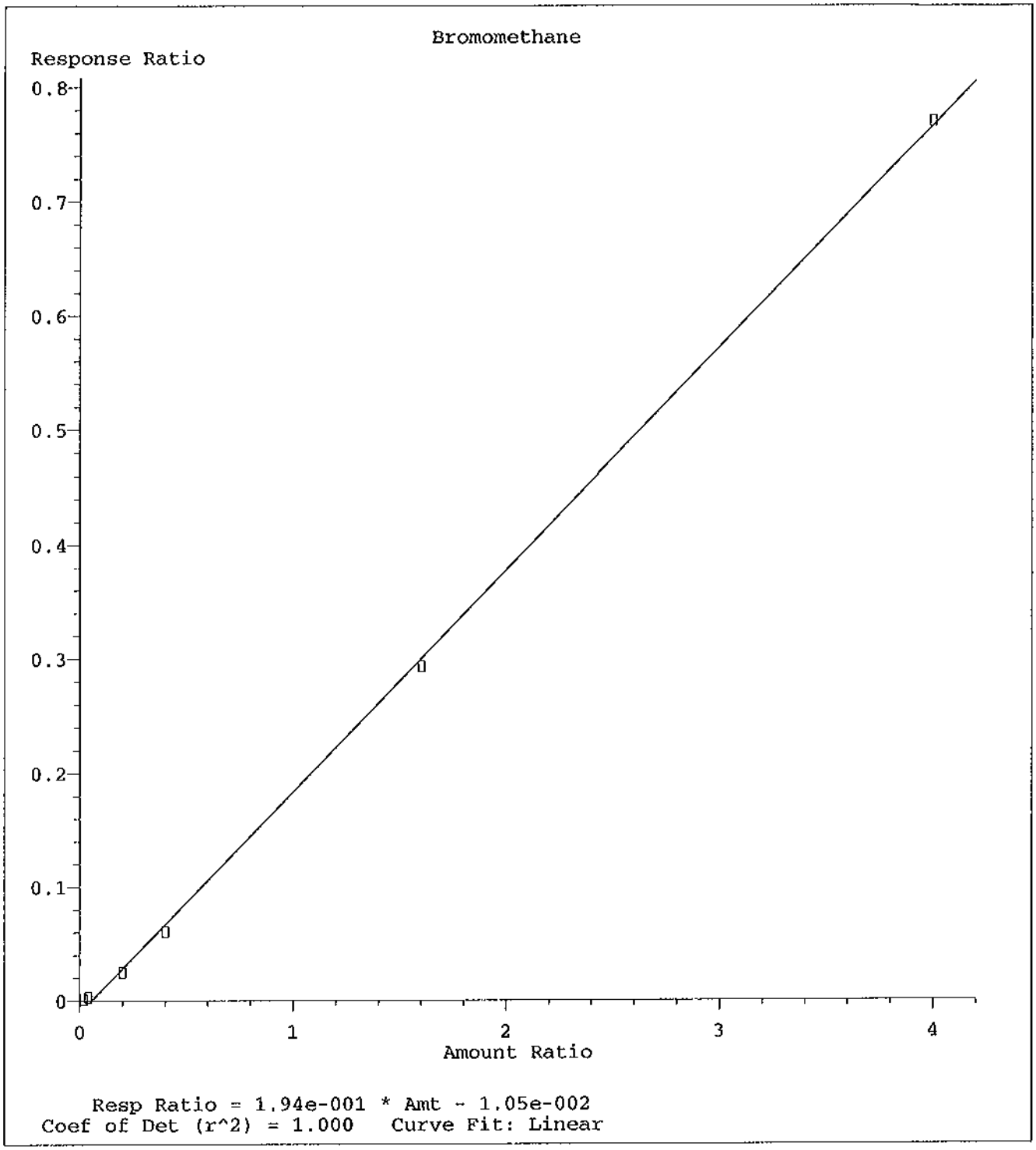




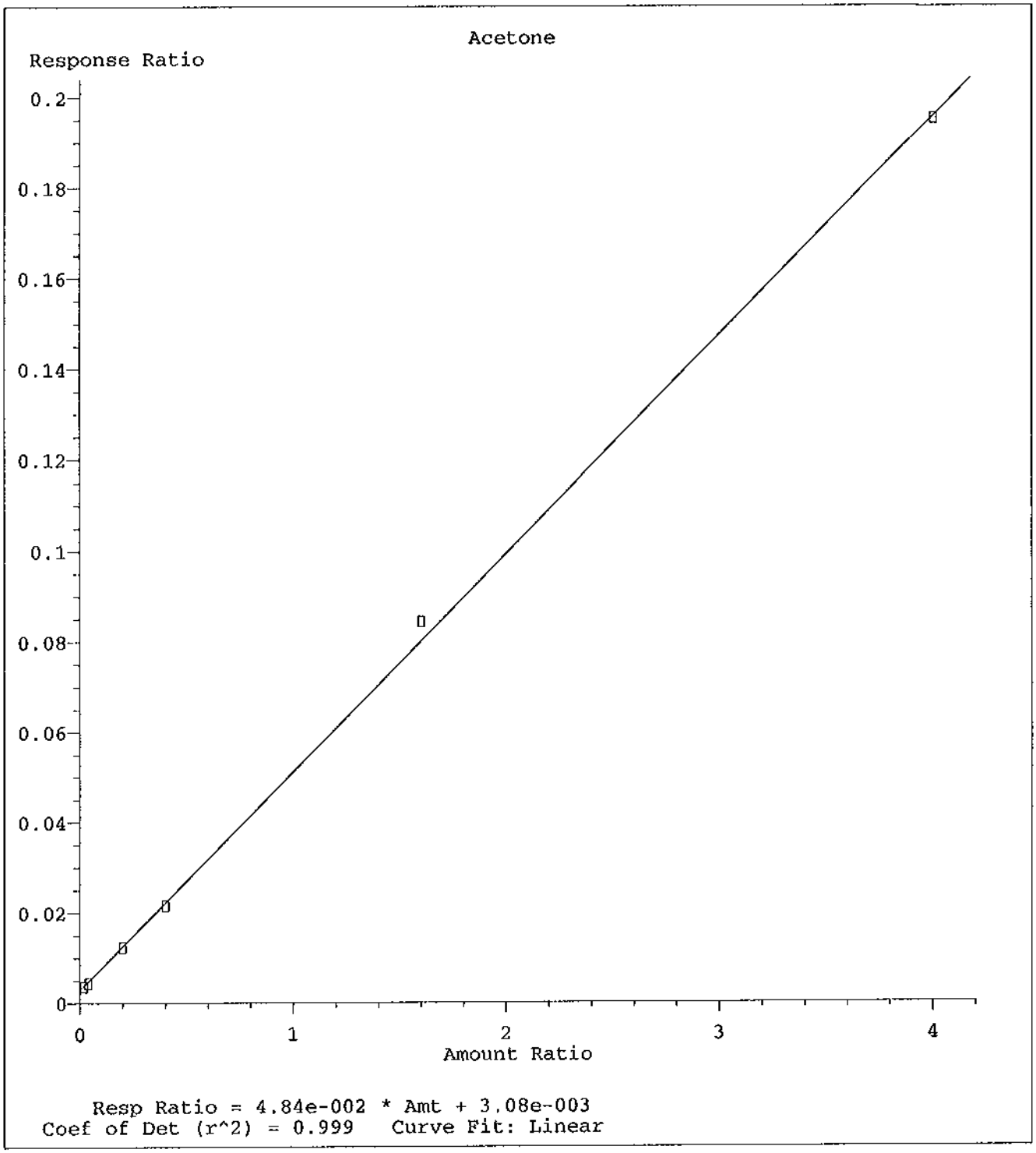
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



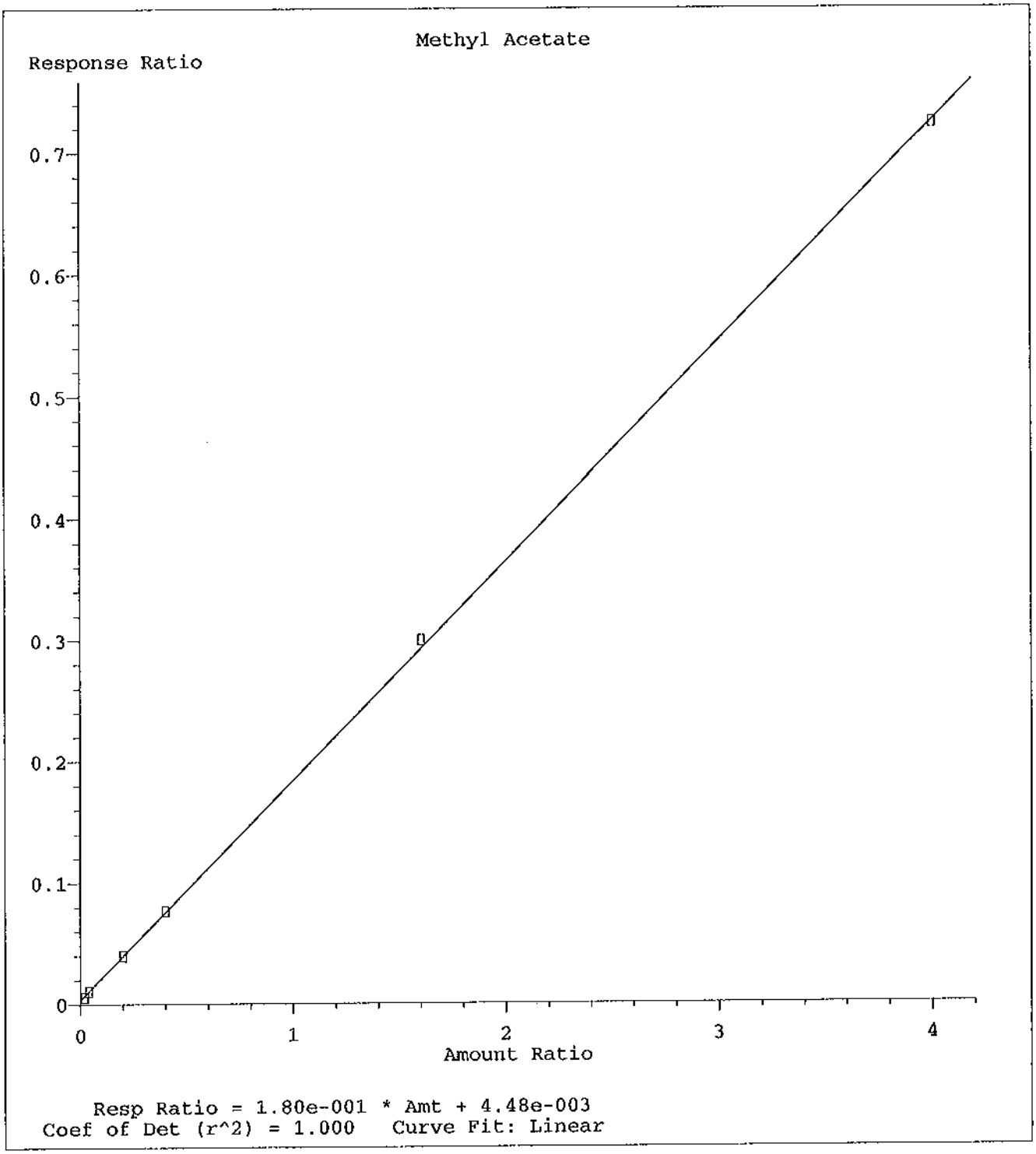
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



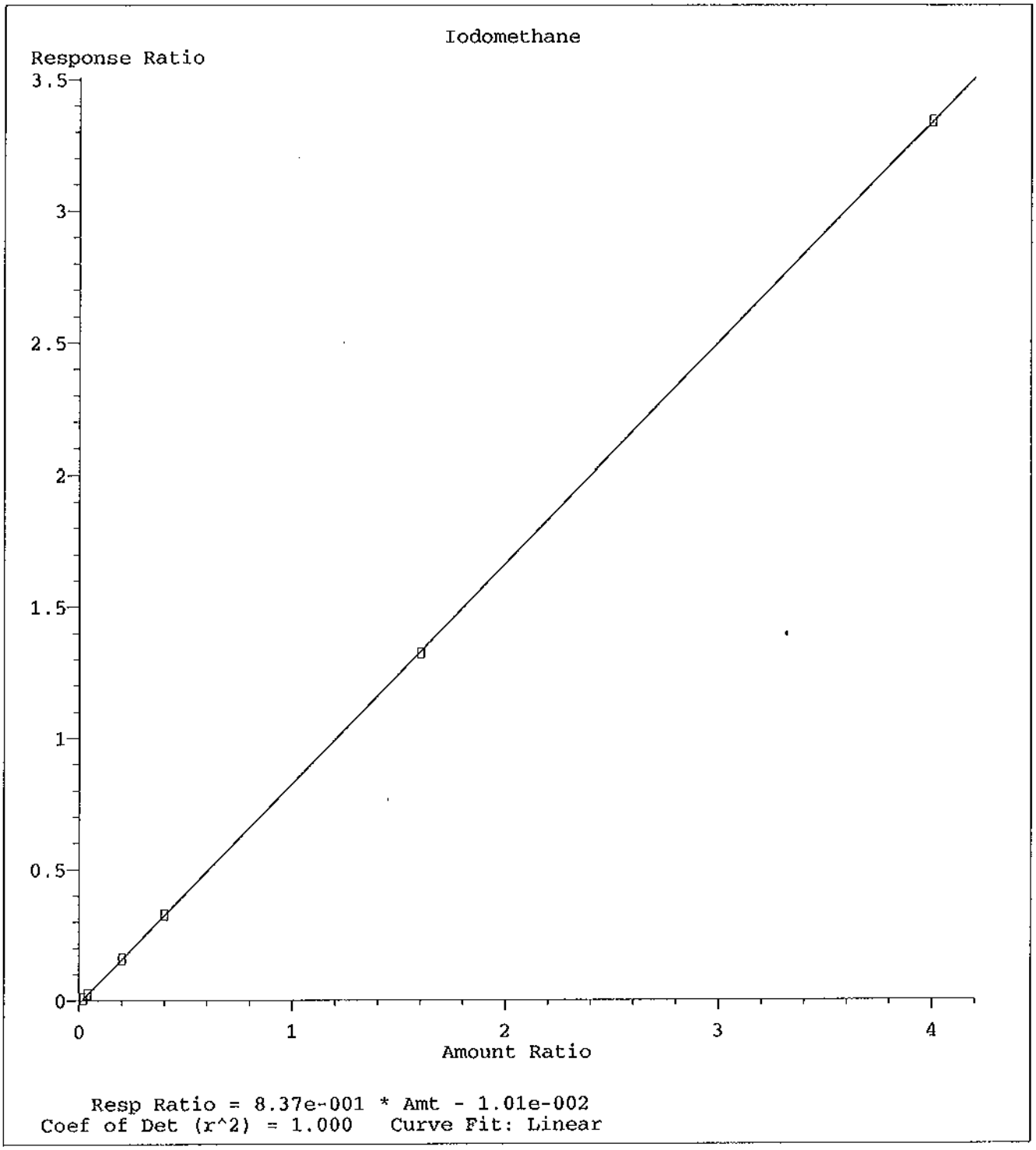
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



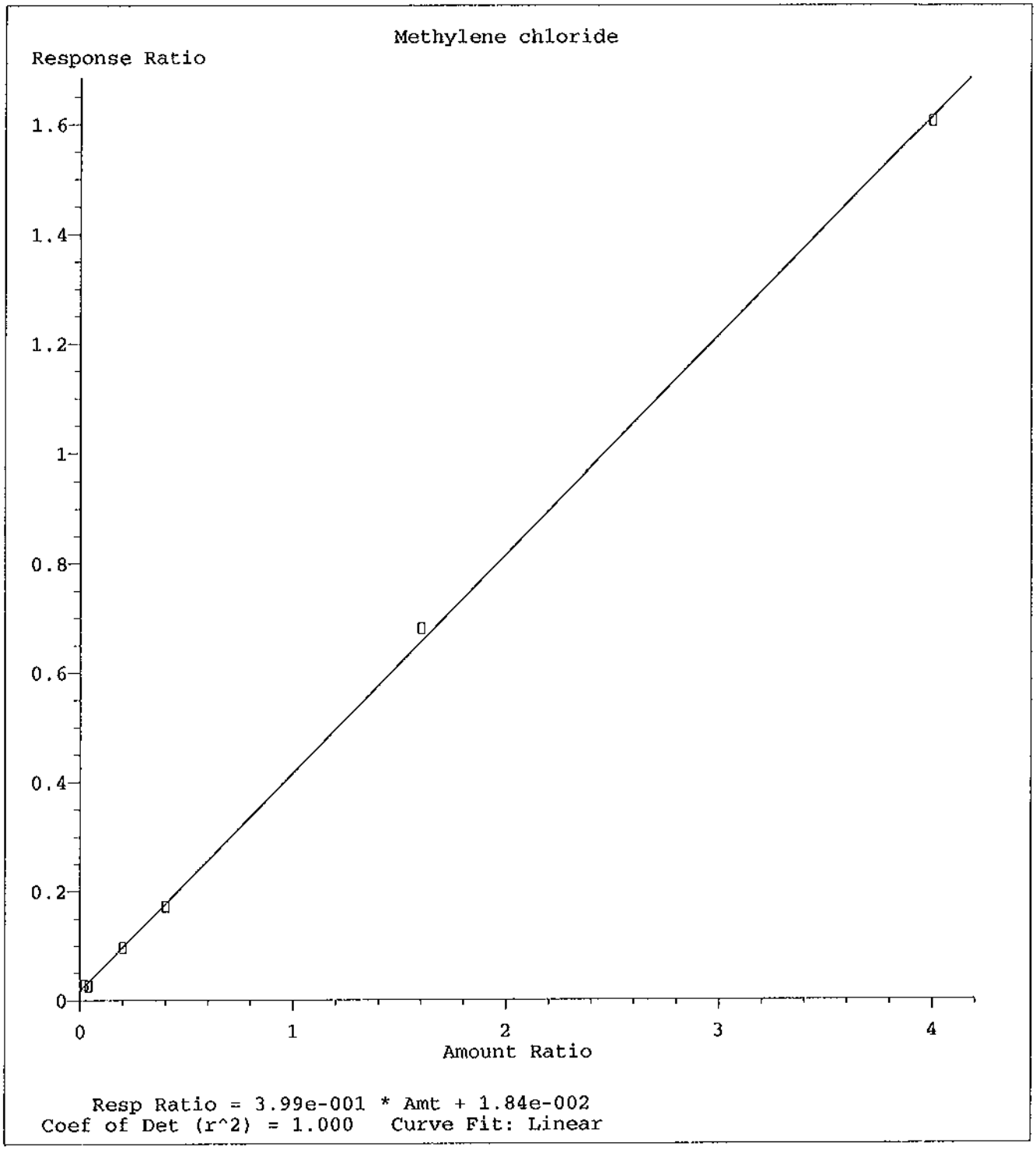
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



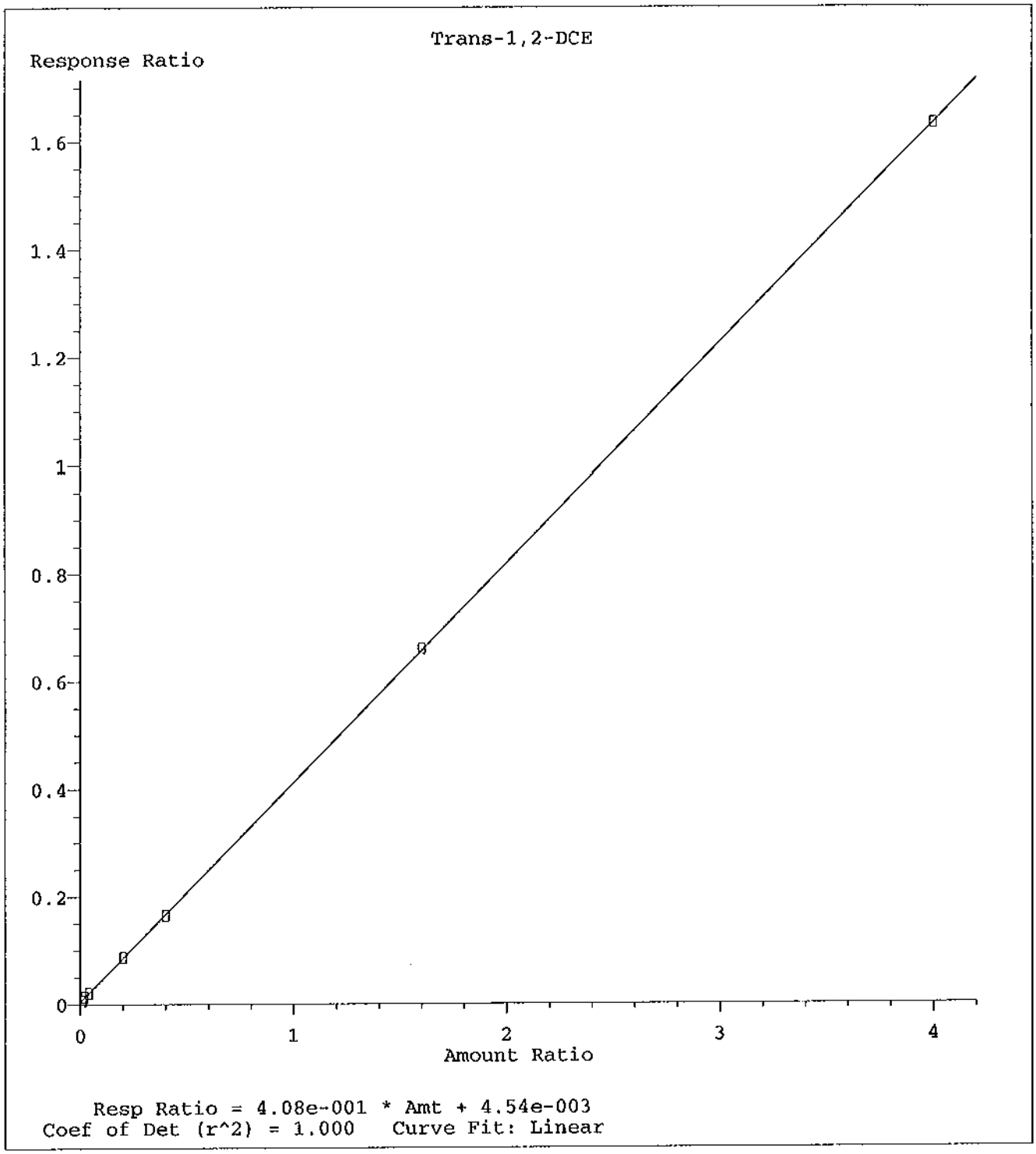
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



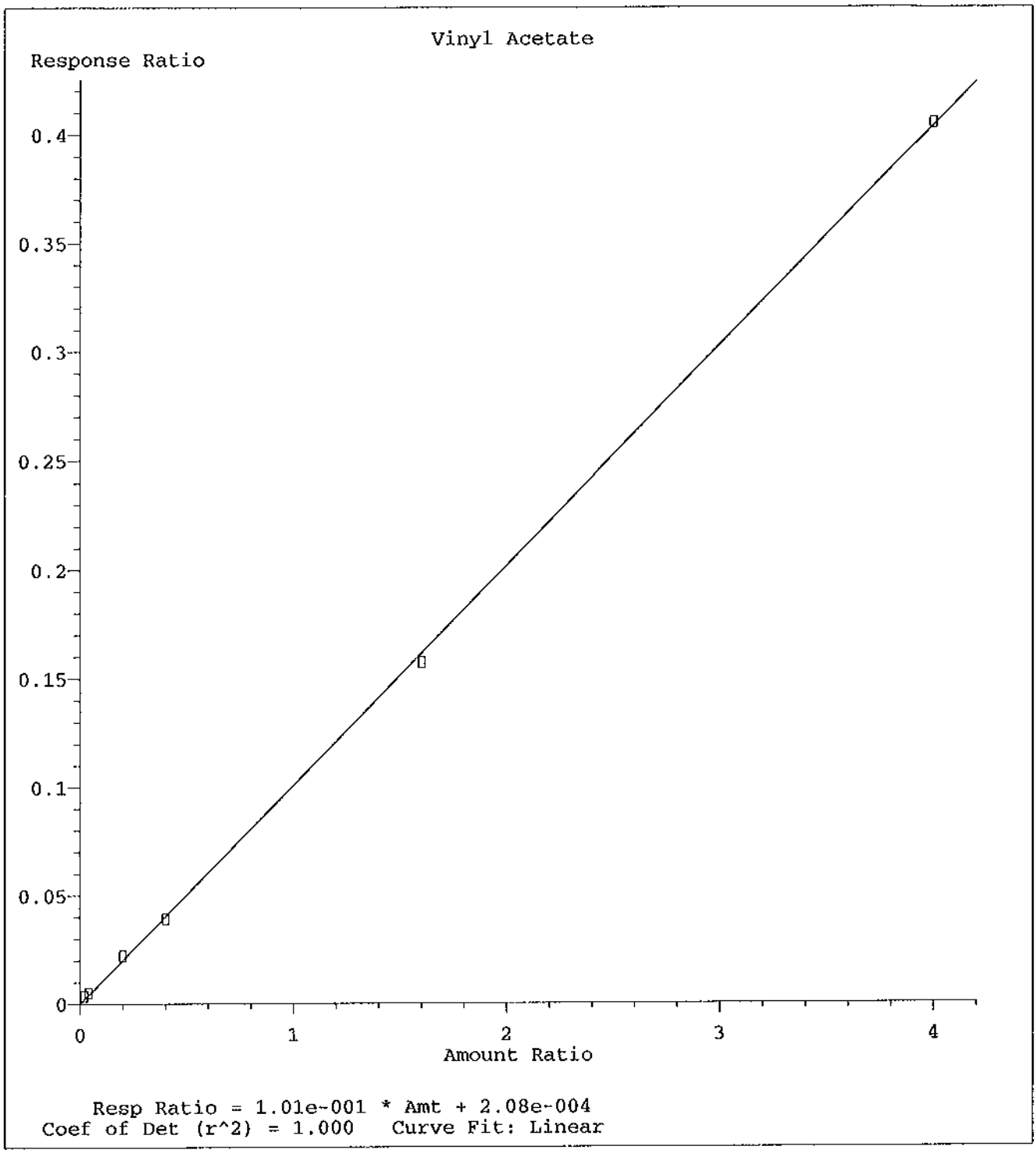
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



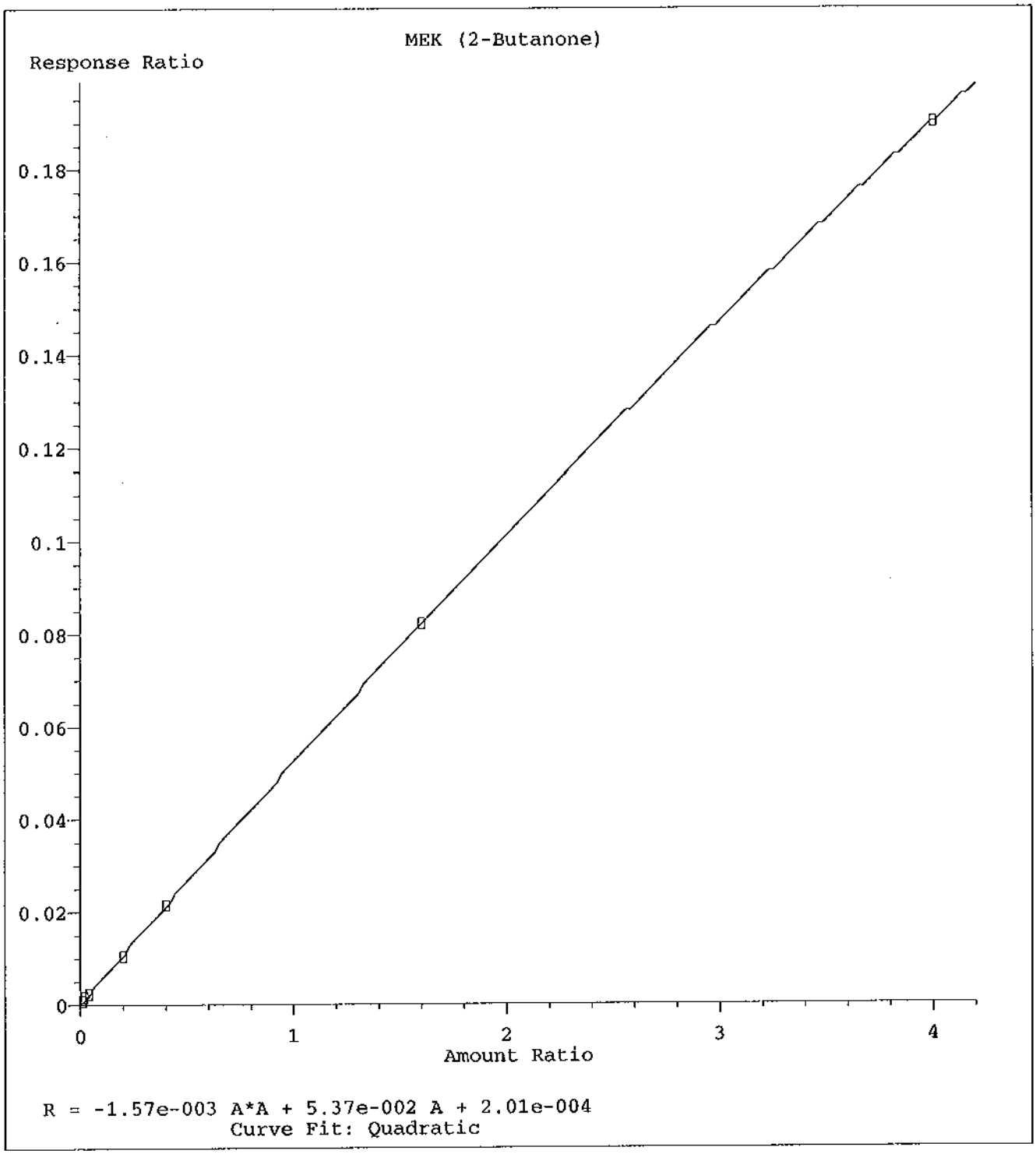
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



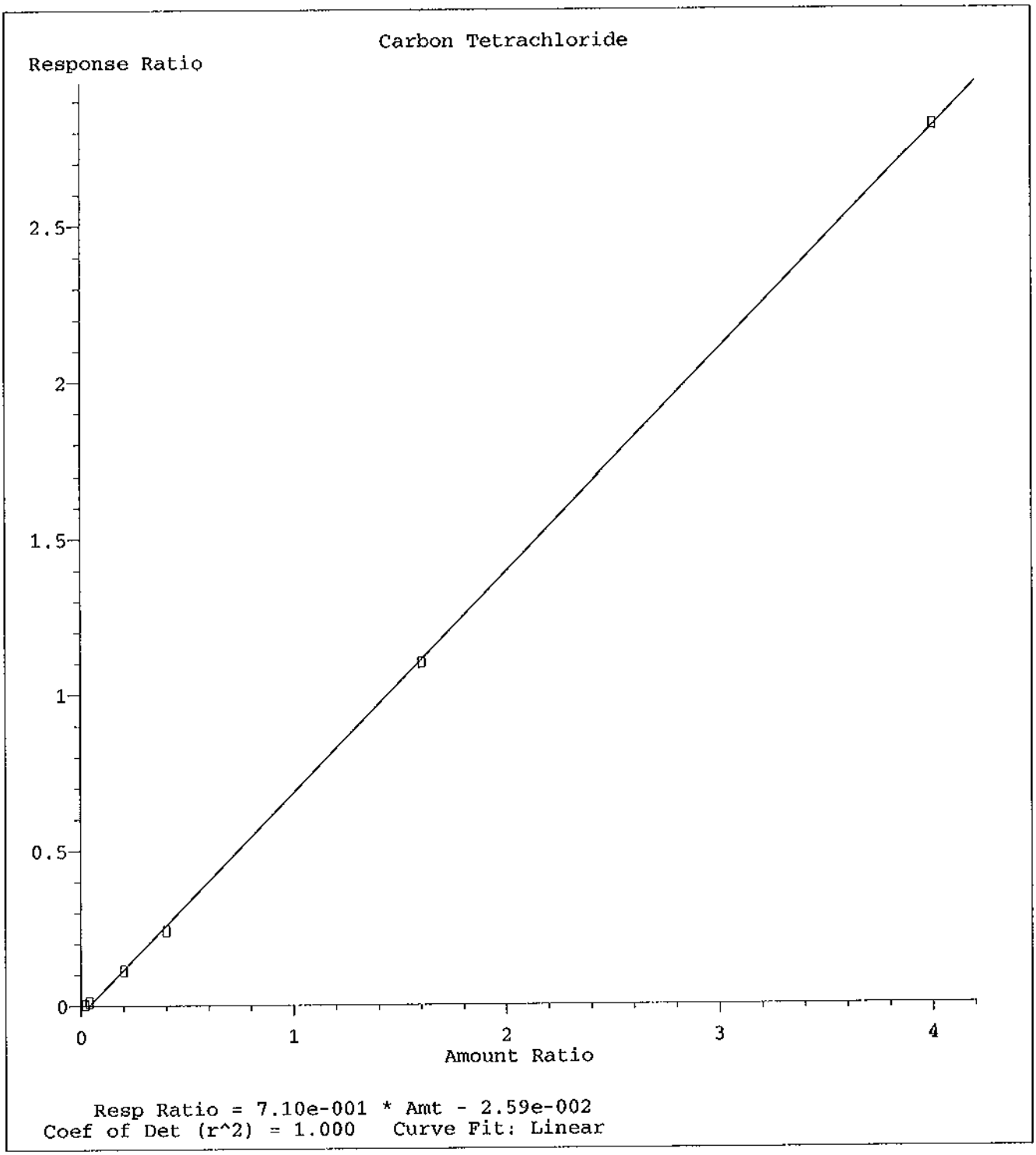
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



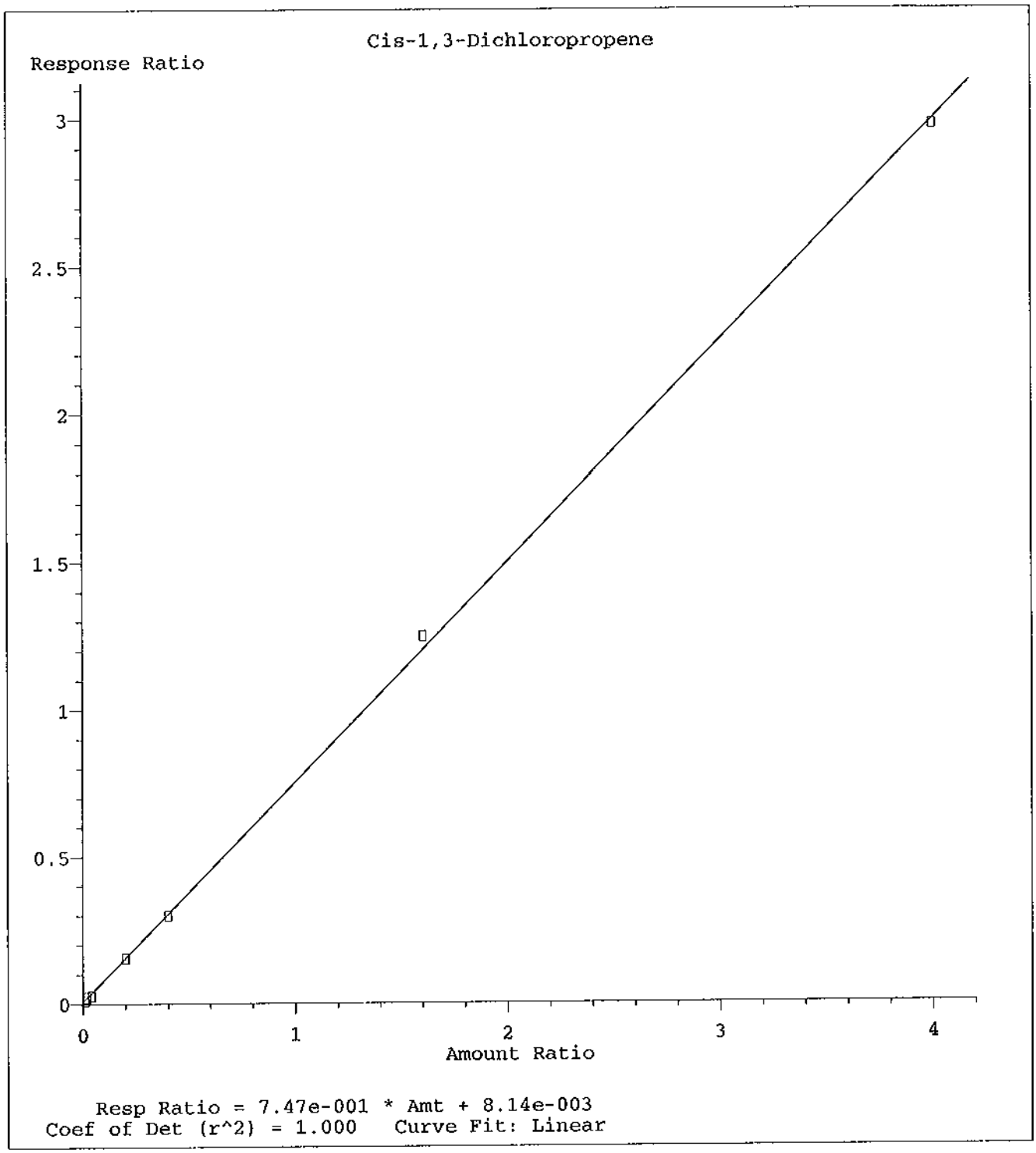
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



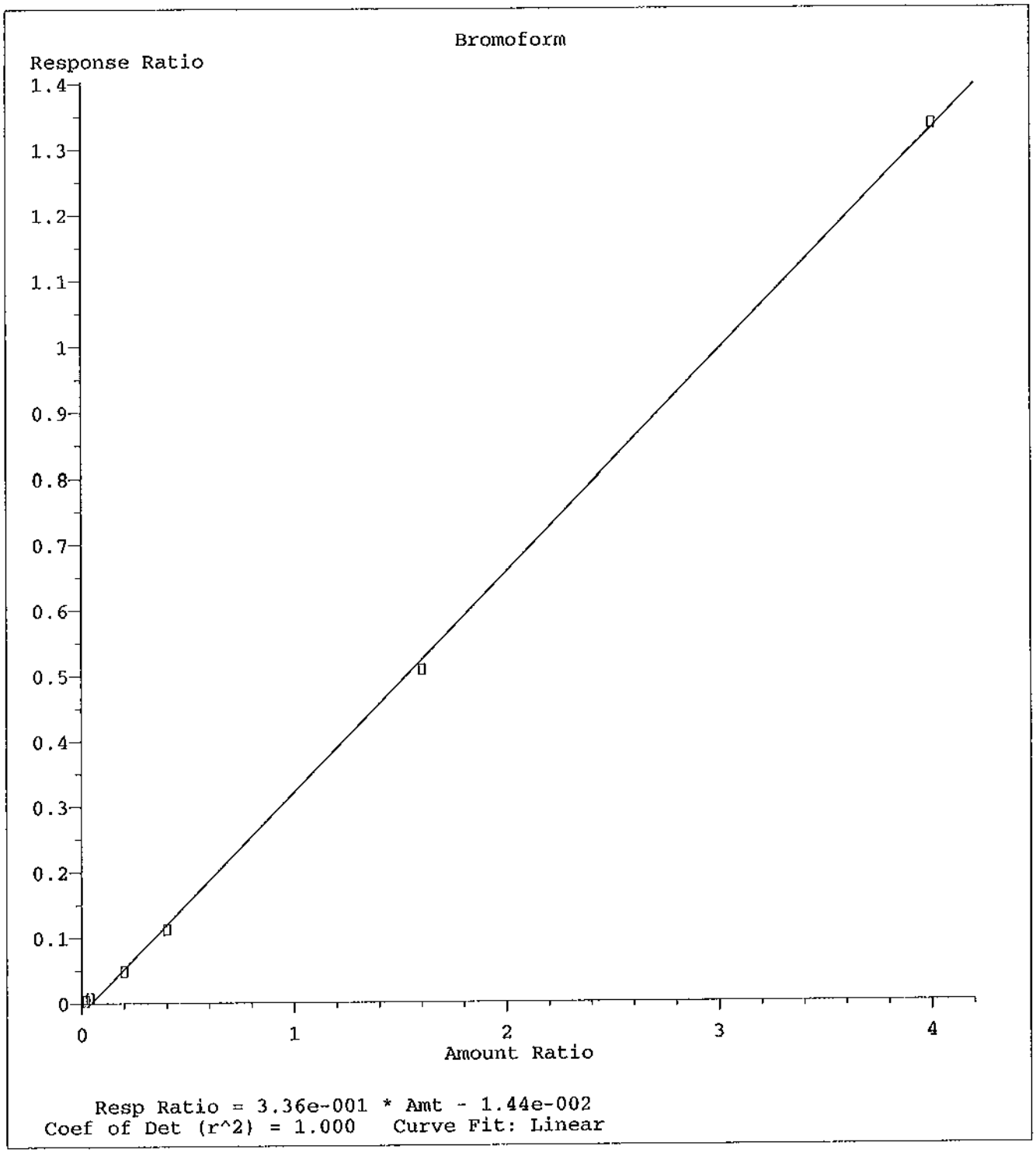
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



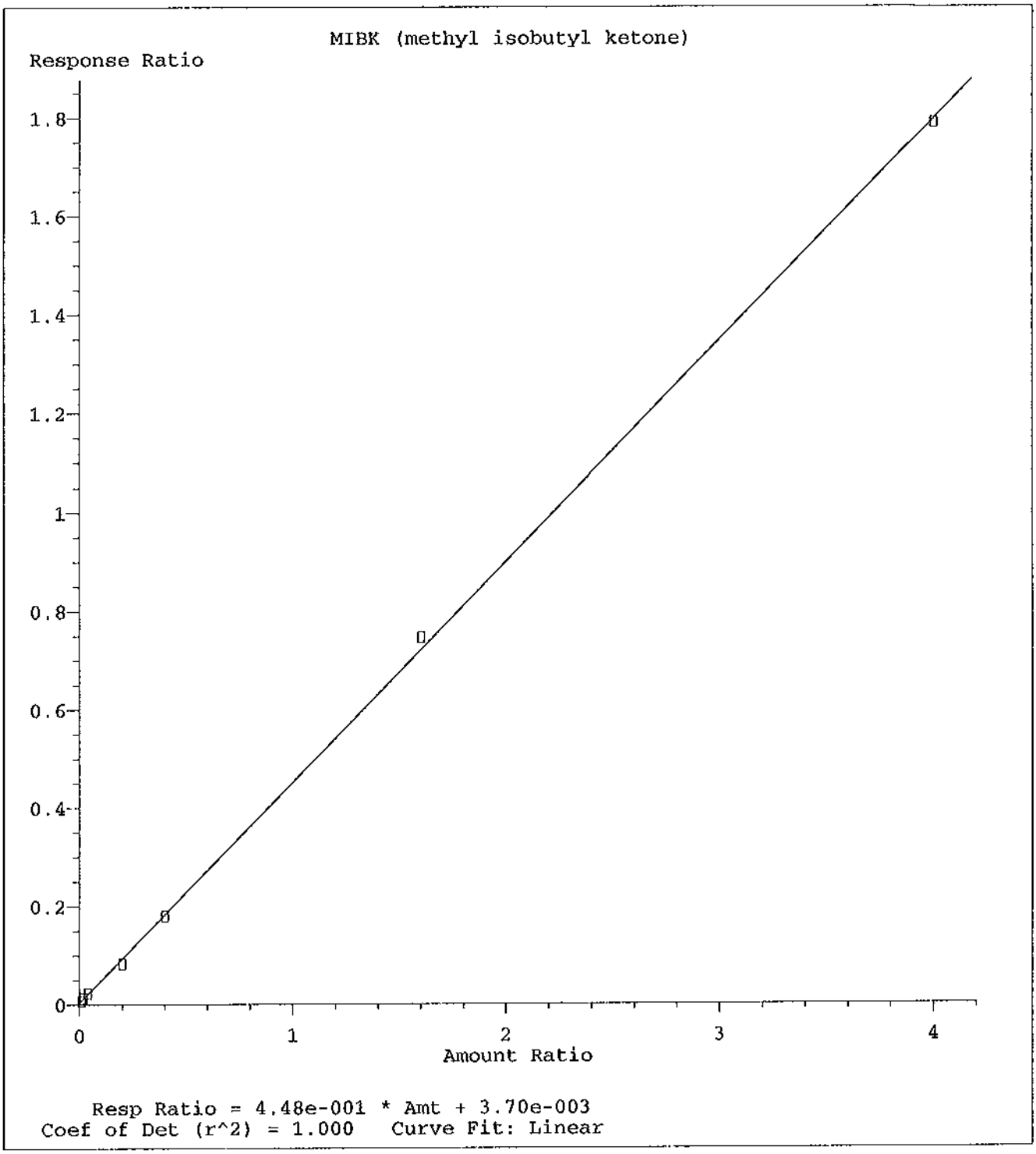
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



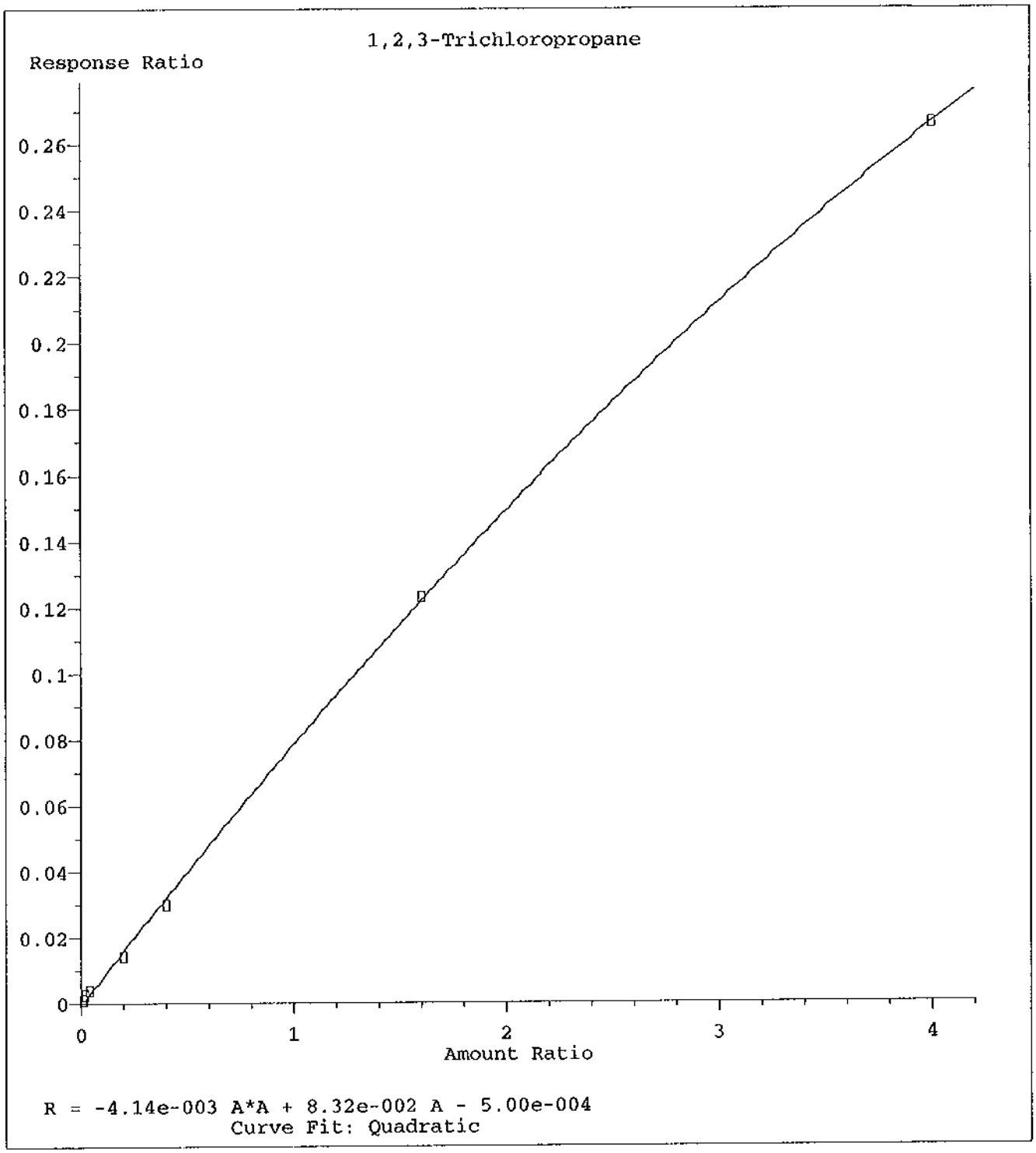
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



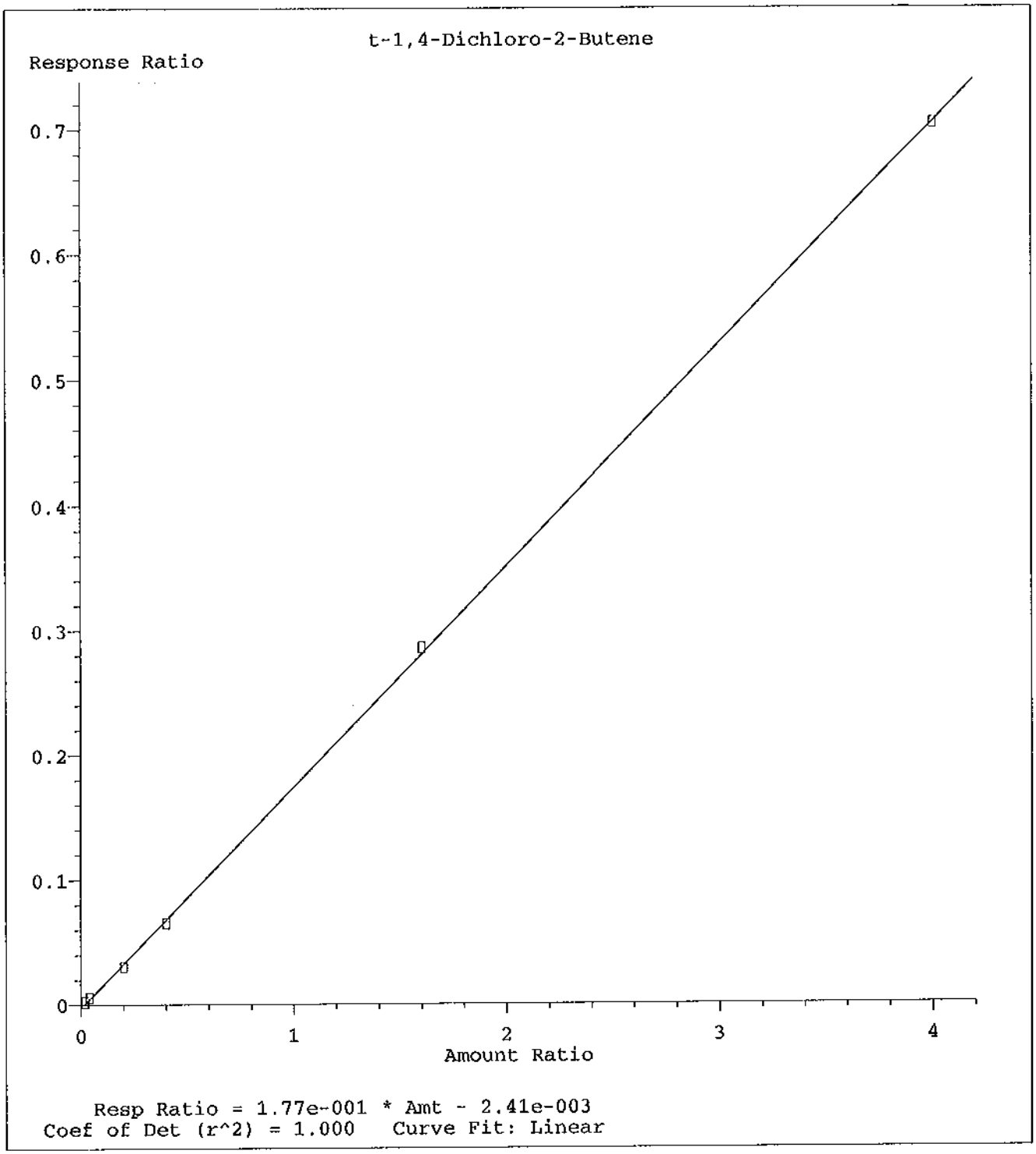
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



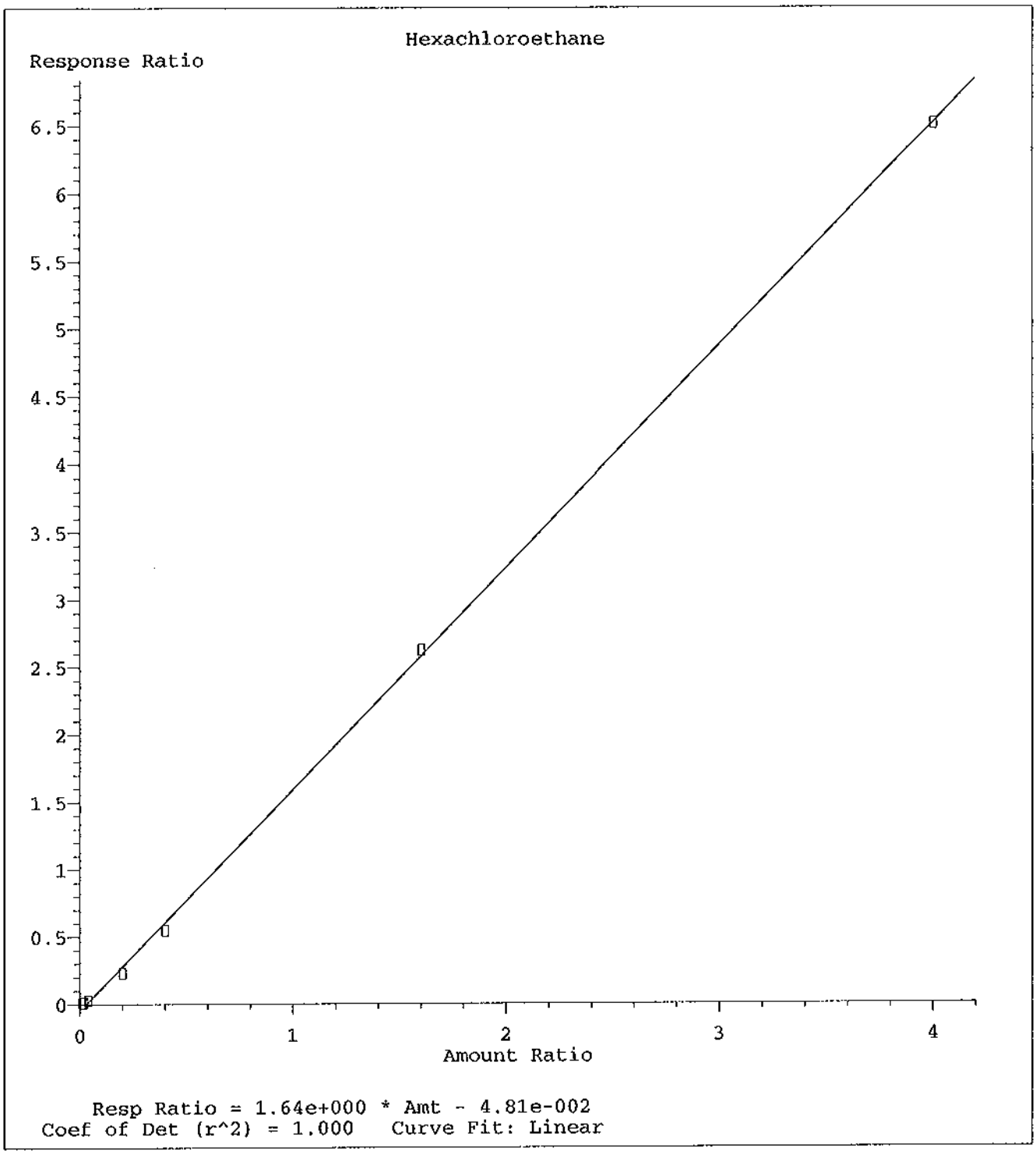
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



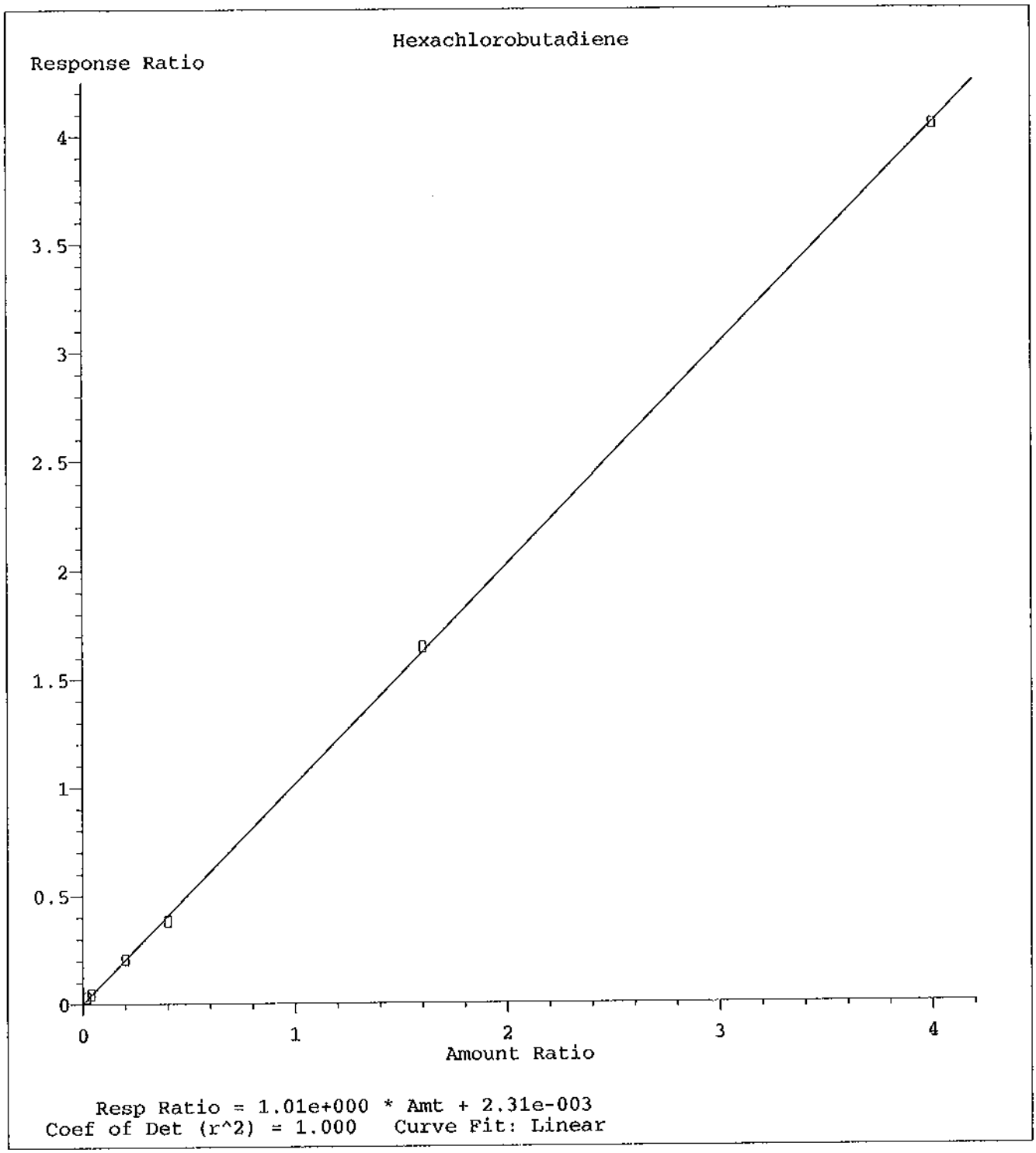
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012

VOLATILE ORGANIC ANALYSIS BY EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66795
Date Analyzed: 01/27/12
Instrument: Chico
Initial Cal. Date: 01/25/12
Data File: 0127C03W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMQ	Dichlorodifluoromethane	0.8036	0.8710	8.4	TMQ	1.2
3	TM	Freon 114	0.3816	0.4342	14	TM	
4	TM**L	Chloromethane	0.3944	0.3276	17	TM**L	13
5	TM*	Vinyl chloride	0.2792	0.3279	17	TM*	
6	TML	Bromomethane	0.1326	0.1812	37	TML	6.8
7	TM	Chloroethane	0.1950	0.2127	9.0	TM	
8	TM	Dichlorofluoromethane	1.427	1.731	21	TM	nt
9	TM	Trichlorofluoromethane	0.1879	0.1990	5.9	TM	
10		Acetonitrile	0.0265	0.0255	3.7		
11	TM	Acrolein	0.0056	0.0060	6.6	TM	
12	TML	Acetone	0.0843	0.0593	30	TML	6.7
13	TM	Freon-113	0.5770	0.6613	15	TM	
14	TM*	1,1-DCE	0.3650	0.3816	4.5	TM*	
15	TM	t-Butanol	0.0027	0.0028	2.9	TM	
16	TML	Methyl Acetate	0.2197	0.1844	16	TML	4.0
17	TML	Iodomethane	0.7035	0.9541	36	TML	17
18	TM	Acrylonitrile	0.0707	0.0803	13	TM	
19	TML	Methylene chloride	0.6292	0.4848	23	TML	10.0
20	TM	Carbon disulfide	0.3651	0.4008	9.8	TM	
21	TM	Methyl t-butyl ether (MtBE)	0.9185	0.9141	0.48	TM	
22	TML	Trans-1,2-DCE	0.4971	0.4899	1.5	TML	17
23	TM	Diisopropyl Ether	1.959	2.166	11	TM	
24	TM**	1,1-DCA	0.9869	1.147	16	TM**	
25	TML	Vinyl Acetate	0.1192	0.1166	2.2	TML	15
26	TM	Ethyl tert Butyl Ether	1.333	1.438	7.8	TM	
27	TMQ	MEK (2-Butanone)	0.0591	0.0508	14	TMQ	5.4
28	TM	Cis-1,2-DCE	0.6605	0.6997	5.9	TM	
29	TM	2,2-Dichloropropane	0.8246	0.9823	19	TM	
30	TM*	Chloroform	1.055	1.216	15	TM*	
31	TM	Bromochloromethane	0.2005	0.2375	18	TM	
32	S	Dibromofluoromethane(S)	0.6655	0.6963	4.6	S	
33	TM	1,1,1-TCA	0.9106	1.008	11	TM	
34	TM	Cyclohexane	0.8672	0.9719	12	TM	
35	TM	1,1-Dichloropropene	0.6274	0.6867	9.5	TM	
36	TM	2,2,4-Trimethylpentane	1.687	1.889	12	TM	
37	S	1,2-DCA-D4(S)	0.4802	0.4861	1.2	S	
38	TML	Carbon Tetrachloride	0.5100	0.6735	32	TML	4.0
39	TM	Tert Amyl Methyl Ether	1.052	1.099	4.5	TM	
40	TM	1,2-DCA	0.4450	0.4701	5.6	TM	
		Average			12.6		

VOLATILE ORGANIC ANALYSIS BY EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 66795
Date Analyzed: 01/27/12
Instrument: Chico
Cal. Date: 01/25/12
Data File: 0127C03W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	Benzene	2.084	2.313	11	TM	
42	TM	TCE	0.5755	0.6726	17	TM	
43	TM	2-Pentanone	0.1416	0.1470	3.8	TM	
44	TM*	1,2-Dichloropropane	0.5519	0.6142	11	TM*	
45	TM	Bromodichloromethane	0.6400	0.7276	14	TM	
46	TM	Methyl Cyclohexane	0.8032	0.9267	15	TM	
47	TM	Dibromomethane	0.2265	0.2522	11	TM	
48	TM	2-Chloroethyl vinyl ether	0.1699	0.1636	3.7	TM	
49	TM	1-Bromo-2-chloroethane	0.4727	0.5375	14	TM	
50	TML	Cis-1,3-Dichloropropene	0.8228	0.8062	2.0	TML	5.3
51	TM*	Toluene	2.447	2.850	16	TM*	
52	TM	Trans-1,3-Dichloropropene	0.5305	0.5816	9.6	TM	
53	TM	1,1,2-TCA	0.2518	0.2992	19	TM	
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	3.159	3.197	1.2	S	
56	TM	1,2-EDB	0.3722	0.3833	3.0	TM	
57	TM	Tetrachloroethene	0.6782	0.7842	16	TM	
58	TM	1-Chlorohexane	1.247	1.467	18	TM	
59	TM	1,1,1,2-Tetrachloroethane	0.7008	0.7727	10	TM	
60	TM	m&p-Xylene	1.479	1.699	15	TM	
61	TM	o-Xylene	1.469	1.646	12	TM	
62	TM	Styrene	2.195	2.463	12	TM	
63	S	4-Bromofluorobenzene(S)	1.104	1.061	3.9	S	
64	TM	2-Hexanone	0.1356	0.1443	6.4	TM	
65	TM	1,3-Dichloropropane	0.6848	0.7273	6.2	TM	
66	TM	Dibromochloromethane	0.4975	0.5364	7.8	TM	
67	TM**	Chlorobenzene	2.147	2.355	9.7	TM**	
68	TM*	Ethylbenzene	3.917	4.318	10	TM*	
69	TM**L	Bromoform	0.2588	0.2664	2.9	TM**L	10.0
70	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
71	TML	MIBK (methyl isobutyl ketone)	0.5081	0.4327	15	TML	5.6
72	TM	Isopropylbenzene	7.473	8.565	15	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.6903	0.7522	9.0	TM**	
74	TMQ	1,2,3-Trichloropropane	0.0858	0.0710	17	TMQ	12
75	TML	t-1,4-Dichloro-2-Butene	0.1544	0.1693	9.7	TML	0.94
76	TM	Bromobenzene	1.771	1.910	7.8	TM	
77	TM	n-Propylbenzene	9.296	10.3	11	TM	
78	TM	4-Ethyltoluene	5.400	6.047	12	TM	
79	TM	2-Chlorotoluene	5.883	6.460	9.8	TM	
80	TM	1,3,5-Trimethylbenzene	6.080	6.997	15	TM	
		Average			10.6		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 66795
Date Analyzed: 01/27/12
Instrument: Chico
Cal. Date: 01/25/12
Data File: 0127C03W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	4-Chlorotoluene	5.216	5.606	7.5	TM	
82	TM	Tert-Butylbenzene	6.961	7.520	8.0	TM	
83	TM	1,2,4-Trimethylbenzene	6.045	6.910	14	TM	
84	TM	Sec-Butylbenzene	8.588	9.857	15	TM	
85	TM	p-Isopropyltoluene	6.897	7.881	14	TM	
86	TM	Benzyl Chloride	1.394	1.436	3.0	TM	
87	TM	1,3-DCB	3.488	3.833	9.9	TM	
88	TM	1,4-DCB	3.391	3.637	7.3	TM	
89	TML	Hexachloroethane	1.129	1.611	43	TML	5.4
90	TM	n-Butylbenzene	6.331	7.159	13	TM	
91	TM	1,2-DCB	2.924	3.099	6.0	TM	
92	TM	1,2-Dibromo-3-chloropropane	0.1063	0.1101	3.6	TM	
93	TM	1,2,4-Trichlorobenzene	0.8362	0.9793	17	TM	
94	TML	Hexachlorobutadiene	1.104	1.126	2.0	TML	11
95	TM	Naphthalene	2.501	2.758	10	TM	
96	TM	1,2,3-Trichlorobenzene	0.6724	0.7871	17	TM	
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			11.9		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C03W.D Vial: 1
Acq On : 27 Jan 12 11:18 Operator: RS, ARS
Sample : 120127A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

$\frac{77896 \times 25}{593908 \times 0.2792} = 11.74$ SW 2-9-12

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.78	96	593908	25.00000 ppb		0.01
54) Chlorobenzene-D5 (IS)	17.98	117	495744	25.00000 ppb		0.01
70) 1,4-Dichlorobenzene-D (IS)	22.17	152	259520	25.00000 ppb		0.01
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.37	111	398968	25.23506 ppb		0.01
Spiked Amount 24.119			Recovery = 104.626%			
37) 1,2-DCA-D4(S)	12.17	65	264133	23.15566 ppb		0.01
Spiked Amount 22.874			Recovery = 101.232%			
55) Toluene-D8(S)	15.44	98	1569371	25.05070 ppb		0.01
Spiked Amount 24.755			Recovery = 101.195%			
63) 4-Bromofluorobenzene(S)	20.05	95	563187	25.72241 ppb		0.01
Spiked Amount 26.777			Recovery = 96.059%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.06	85	206927	9.88277 ppb		97
3) Freon 114	4.31	85	103140	11.37726 ppb		98
4) Chloromethane	4.52	50	77823	8.69892 ppb		99
5) Vinyl chloride	4.80	62	77896	11.74424 ppb		91
6) Bromomethane	5.69	94	43048	10.67648 ppb		88
7) Chloroethane	5.88	64	50525	10.90472 ppb		100
8) Dichlorofluoromethane	5.97	67	411111	12.12331 ppb		96
9) Trichlorofluoromethane	6.47	103	47280	10.59224 ppb		94
10) Acetonitrile	7.62	41	75817	120.35811 ug/l		100
11) Acrolein	7.11	56	17812	133.28685 ppb		98
12) Acetone	7.25	43	14083	10.66536 ppb	#	86
13) Freon-113	7.41	101	157093	11.45994 ppb		89
14) 1,1-DCE	7.63	96	90654	10.45368 ppb		84
15) t-Butanol	7.72	59	8384	128.65365 ppb	#	93
16) Methyl Acetate	8.15	43	43802	9.59877 ppb		97
17) Iodomethane	8.12	142	226666	11.70477 ppb		100
18) Acrylonitrile	8.52	53	19071	11.34711 ppb		90
19) Methylene chloride	8.43	84	115177	10.99920 ppb		91
20) Carbon disulfide	8.51	76	95216	10.97798 ppb		97
21) Methyl t-butyl ether (MtBE	8.84	73	217158	9.95162 ppb		97
22) Trans-1,2-DCE	9.05	96	116372	11.73985 ppb		99
23) Diisopropyl Ether	9.71	45	514646	11.05569 ppb		98
24) 1,1-DCA	9.73	63	272370	11.61695 ppb		98
25) Vinyl Acetate	9.38	43	27696	11.51451 ppb		98
26) Ethyl tert Butyl Ether	10.39	59	341509	10.78028 ppb		98
27) MEK (2-Butanone)	10.38	43	12060	9.46092 ppb		95
28) Cis-1,2-DCE	10.76	96	166222	10.59299 ppb		96
29) 2,2-Dichloropropane	10.76	77	233364	11.91211 ppb		100
30) Chloroform	11.04	83	288979	11.53354 ppb		98
31) Bromochloromethane	11.26	128	56430	11.84644 ppb		85
33) 1,1,1-TCA	11.79	97	239566	11.07452 ppb		98
34) Cyclohexane	11.94	56	230891	11.20729 ppb		94
35) 1,1-Dichloropropene	12.05	75	163135	10.94562 ppb		97
36) 2,2,4-Trimethylpentane	12.12	57	448745	11.20012 ppb		99
38) Carbon Tetrachloride	12.24	117	159990	10.39756 ppb		94
39) Tert Amyl Methyl Ether	12.30	73	260987	10.44579 ppb		95
40) 1,2-DCA	12.32	62	111671	10.56284 ppb		94
41) Benzene	12.44	78	549488	11.09682 ppb		97
42) TCE	13.48	95	159779	11.68668 ppb		96

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C03W.D Vial: 1
Acq On : 27 Jan 12 11:18 Operator: RS, ARS
Sample : 120127A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.15	43	436494	129.75465	ppb		97
44)	1,2-Dichloropropane	13.71	63	145909	11.12942	ppb	#	96
45)	Bromodichloromethane	14.06	83	172853	11.36905	ppb		97
46)	Methyl Cyclohexane	13.76	83	220156	11.53752	ppb		100
47)	Dibromomethane	14.12	93	59909	11.13149	ppb		89
48)	2-Chloroethyl vinyl ether	14.52	63	38877	9.63187	ppb	#	89
49)	1-Bromo-2-chloroethane	14.82	63	127690	11.36993	ppb		86
50)	Cis-1,3-Dichloropropene	14.95	75	191518	10.52664	ppb		94
51)	Toluene	15.58	91	677066	11.64919	ppb		98
52)	Trans-1,3-Dichloropropene	15.74	75	138172	10.96313	ppb		98
53)	1,1,2-TCA	16.02	83	71071	11.88216	ppb		91
56)	1,2-EDB	17.27	107	76014	10.29867	ppb		98
57)	Tetrachloroethene	16.73	164	155497	11.56223	ppb		96
58)	1-Chlorohexane	17.65	91	290855	11.76186	ppb		99
59)	1,1,1,2-Tetrachloroethane	18.10	131	153219	11.02555	ppb		89
60)	m&p-Xylene	18.30	106	674004	22.97781	ppb		96
61)	o-Xylene	19.04	106	326383	11.20392	ppb		90
62)	Styrene	19.06	104	488478	11.22216	ppb		96
64)	2-Hexanone	16.05	43	28607	10.63893	ppb		94
65)	1,3-Dichloropropane	16.44	76	144224	10.62053	ppb		99
66)	Dibromochloromethane	16.91	129	106363	10.78241	ppb		97
67)	Chlorobenzene	18.04	112	466961	10.96896	ppb		98
68)	Ethylbenzene	18.15	91	856272	11.02266	ppb		100
69)	Bromoform	19.57	173	52823	9.00017	ppb		89
71)	MIBK (methyl isobutyl keto	14.62	43	44915	9.44253	ppb	#	82
72)	Isopropylbenzene	19.67	105	889090	11.46103	ppb		98
73)	1,1,2,2-Tetrachloroethane	19.83	83	78084	10.89728	ppb		97
74)	1,2,3-Trichloropropane	20.09	110	7370	8.83575	ppb		100
75)	t-1,4-Dichloro-2-Butene	20.16	53	17579	9.90566	ppb	#	73
76)	Bromobenzene	20.40	156	198279	10.78428	ppb		97
77)	n-Propylbenzene	20.38	91	1071977	11.10819	ppb		98
78)	4-Ethyltoluene	20.58	105	627697	11.19677	ppb		98
79)	2-Chlorotoluene	20.68	91	670568	10.98117	ppb		99
80)	1,3,5-Trimethylbenzene	20.65	105	726307	11.50731	ppb		98
81)	4-Chlorotoluene	20.75	91	581979	10.74791	ppb		94
82)	Tert-Butylbenzene	21.29	119	780643	10.80242	ppb		98
83)	1,2,4-Trimethylbenzene	21.35	105	717360	11.43124	ppb		99
84)	Sec-Butylbenzene	21.69	105	1023256	11.47728	ppb		99
85)	p-Isopropyltoluene	21.92	119	818160	11.42699	ppb		98
86)	Benzyl Chloride	22.37	91	149105	10.30196	ppb		99
87)	1,3-DCB	22.07	146	397923	10.98919	ppb		97
88)	1,4-DCB	22.23	146	377598	10.72613	ppb		99
89)	Hexachloroethane	23.54	117	167277	10.54410	ppb		98
90)	n-Butylbenzene	22.64	91	743128	11.30769	ppb		99
91)	1,2-DCB	22.86	146	321677	10.59693	ppb		97
92)	1,2-Dibromo-3-chloropropan	24.08	155	11432	10.36081	ppb		76
93)	1,2,4-Trichlorobenzene	25.53	180	101656	11.71079	ppb		98
94)	Hexachlorobutadiene	25.77	223	116891	11.06348	ppb		96
95)	Naphthalene	25.88	128	286286	11.02681	ppb		97
96)	1,2,3-Trichlorobenzene	26.24	180	81708	11.70539	ppb		97

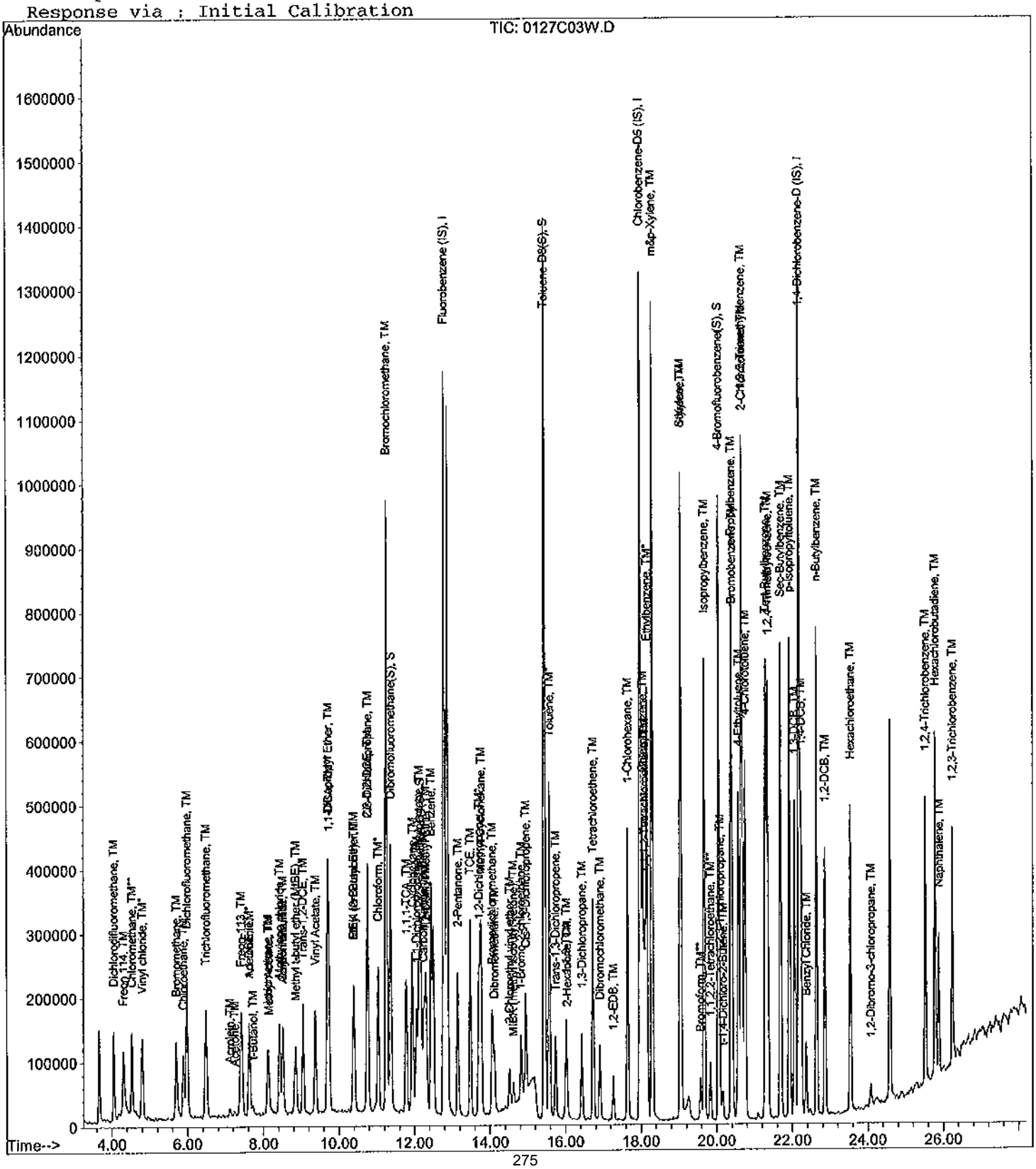
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C03W.D Vial: 1
Acq On : 27 Jan 12 11:18 Operator: RS, ARS
Sample : 120127A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No: 66795
Case No: Date Analyzed: 01/27/12
Matrix: Instrument: Chico
Initial Cal. Date: 01/25/12
Data File: 0127C02W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMQ	Dichlorodifluoromethane	0.8036	0.8653	7.7	TMQ	1.8
3	TM	Freon 114	0.3816	0.4076	6.8	TM	
4	TM**L	Chloromethane	0.3944	0.3065	22	TM**L	19
5	TM*	Vinyl chloride	0.2792	0.3029	8.5	TM*	
6	TML	Bromomethane	0.1326	0.1810	36	TML	6.7
7	TM	Chloroethane	0.1950	0.2111	8.2	TM	
8	TM	Dichlorofluoromethane	1.427	1.738	22	TM	nt
9	TM	Trichlorofluoromethane	0.1879	0.2075	10	TM	
10		Acetonitrile	0.0265	0.0294	11		
11	TM	Acrolein	0.0056	0.0067	20	TM	
12	TML	Acetone	0.0843	0.0583	31	TML	4.6
13	TM	Freon-113	0.5770	0.6256	8.4	TM	
14	TM*	1,1-DCE	0.3650	0.3607	1.2	TM*	
15	TM	t-Butanol	0.0027	0.0025	7.9	TM	
16	TML	Methyl Acetate	0.2197	0.1850	16	TML	3.7
17	TML	Iodomethane	0.7035	0.9295	32	TML	14
18	TM	Acrylonitrile	0.0707	0.0792	12	TM	
19	TML	Methylene chloride	0.6292	0.5041	20	TML	15
20	TM	Carbon disulfide	0.3651	0.3849	5.4	TM	
21	TM	Methyl t-butyl ether (MtBE)	0.9185	0.9439	2.8	TM	
22	TML	Trans-1,2-DCE	0.4971	0.4594	7.6	TML	9.9
23	TM	Diisopropyl Ether	1.959	2.185	12	TM	
24	TM**	1,1-DCA	0.9869	1.144	16	TM**	
25	TML	Vinyl Acetate	0.1192	0.1077	9.6	TML	6.3
26	TM	Ethyl tert Butyl Ether	1.333	1.414	6.0	TM	
27	TMQ	MEK (2-Butanone)	0.0591	0.0579	2.1	TMQ	8.2
28	TM	Cis-1,2-DCE	0.6605	0.7343	11	TM	
29	TM	2,2-Dichloropropane	0.8246	1.014	23	TM	nt
30	TM*	Chloroform	1.055	1.212	15	TM*	
31	TM	Bromochloromethane	0.2005	0.2388	19	TM	
32	S	Dibromofluoromethane(S)	0.6655	0.6939	4.3	S	
33	TM	1,1,1-TCA	0.9106	1.004	10	TM	
34	TM	Cyclohexane	0.8672	0.9048	4.3	TM	
35	TM	1,1-Dichloropropene	0.6274	0.6703	6.8	TM	
36	TM	2,2,4-Trimethylpentane	1.687	1.737	3.0	TM	
37	S	1,2-DCA-D4(S)	0.4802	0.5075	5.7	S	
38	TML	Carbon Tetrachloride	0.5100	0.6407	26	TML	0.64
39	TM	Tert Amyl Methyl Ether	1.052	1.095	4.1	TM	
40	TM	1,2-DCA	0.4450	0.4855	9.1	TM	
		Average			12.4		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 66795
Date Analyzed: 01/27/12
Instrument: Chico
Cal. Date: 01/25/12
Data File: 0127C02W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	Benzene	2.084	2.356	13	TM	
42	TM	TCE	0.5755	0.6880	20	TM	
43	TM	2-Pentanone	0.1416	0.1490	5.2	TM	
44	TM*	1,2-Dichloropropane	0.5519	0.6329	15	TM*	
45	TM	Bromodichloromethane	0.6400	0.7263	13	TM	
46	TM	Methyl Cyclohexane	0.8032	0.8578	6.8	TM	
47	TM	Dibromomethane	0.2265	0.2507	11	TM	
48	TM	2-Chloroethyl vinyl ether	0.1699	0.1618	4.7	TM	
49	TM	1-Bromo-2-chloroethane	0.4727	0.5273	12	TM	
50	TML	Cis-1,3-Dichloropropene	0.8228	0.8418	2.3	TML	10
51	TM*	Toluene	2.447	2.859	17	TM*	
52	TM	Trans-1,3-Dichloropropene	0.5305	0.5879	11	TM	
53	TM	1,1,2-TCA	0.2518	0.2942	17	TM	
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	3.159	3.395	7.4	S	
56	TM	1,2-EDB	0.3722	0.4083	9.7	TM	
57	TM	Tetrachloroethene	0.6782	0.7881	16	TM	
58	TM	1-Chlorohexane	1.247	1.468	18	TM	
59	TM	1,1,1,2-Tetrachloroethane	0.7008	0.8113	16	TM	
60	TM	m&p-Xylene	1.479	1.726	17	TM	
61	TM	o-Xylene	1.469	1.728	18	TM	
62	TM	Styrene	2.195	2.559	17	TM	
63	S	4-Bromofluorobenzene(S)	1.104	1.115	1.0	S	
64	TM	2-Hexanone	0.1356	0.1520	12	TM	
65	TM	1,3-Dichloropropane	0.6848	0.7315	6.8	TM	
66	TM	Dibromochloromethane	0.4975	0.5625	13	TM	
67	TM**	Chlorobenzene	2.147	2.440	14	TM**	
68	TM*	Ethylbenzene	3.917	4.441	13	TM*	
69	TM**L	Bromoform	0.2588	0.2808	8.5	TM**L	5.7
70	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
71	TML	MIBK (methyl isobutyl ketone)	0.5081	0.4414	13	TML	3.6
72	TM	Isopropylbenzene	7.473	8.535	14	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.6903	0.7635	11	TM**	
74	TMQ	1,2,3-Trichloropropane	0.0858	0.0740	14	TMQ	7.9
75	TML	t-1,4-Dichloro-2-Butene	0.1544	0.1552	0.53	TML	8.9
76	TM	Bromobenzene	1.771	1.903	7.5	TM	
77	TM	n-Propylbenzene	9.296	10.3	10	TM	
78	TM	4-Ethyltoluene	5.400	6.023	12	TM	
79	TM	2-Chlorotoluene	5.883	6.436	9.4	TM	
80	TM	1,3,5-Trimethylbenzene	6.080	6.922	14	TM	
		Average			11.6		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 66795
Date Analyzed: 01/27/12
Instrument: Chico
Cal. Date: 01/25/12
Data File: 0127C02W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	4-Chlorotoluene	5.216	5.565	6.7	TM	
82	TM	Tert-Butylbenzene	6.961	7.367	5.8	TM	
83	TM	1,2,4-Trimethylbenzene	6.045	6.793	12	TM	
84	TM	Sec-Butylbenzene	8.588	9.628	12	TM	
85	TM	p-Isopropyltoluene	6.897	7.827	13	TM	
86	TM	Benzyl Chloride	1.394	1.426	2.3	TM	
87	TM	1,3-DCB	3.488	3.872	11	TM	
88	TM	1,4-DCB	3.391	3.621	6.8	TM	
89	TML	Hexachloroethane	1.129	1.541	37	TML	1.2
90	TM	n-Butylbenzene	6.331	7.029	11	TM	
91	TM	1,2-DCB	2.924	3.050	4.3	TM	
92	TM	1,2-Dibromo-3-chloropropane	0.1063	0.1036	2.6	TM	
93	TM	1,2,4-Trichlorobenzene	0.8362	1.005	20	TM	
94	TML	Hexachlorobutadiene	1.104	1.152	4.3	TML	13
95	TM	Naphthalene	2.501	2.778	11	TM	
96	TM	1,2,3-Trichlorobenzene	0.6724	0.7760	15	TM	
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			10.9		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C02W.D Vial: 1
Acq On : 27 Jan 12 10:41 Operator: RS, ARS
Sample : 10ug/L Vol Std 01-27-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.78	96	578666	25.00000	ppb		0.01
54) Chlorobenzene-D5 (IS)	17.98	117	469312	25.00000	ppb		0.01
70) 1,4-Dichlorobenzene-D (IS)	22.17	152	257152	25.00000	ppb		0.01
System Monitoring Compounds							
32) Dibromofluoromethane(S)	11.36	111	387371	25.14691	ppb		0.00
Spiked Amount 24.119			Recovery	= 104.261%			
37) 1,2-DCA-D4(S)	12.17	65	268702	24.17667	ppb		0.01
Spiked Amount 22.874			Recovery	= 105.695%			
55) Toluene-D8(S)	15.44	98	1577504	26.59870	ppb		0.01
Spiked Amount 24.755			Recovery	= 107.449%			
63) 4-Bromofluorobenzene(S)	20.05	95	560654	27.04891	ppb		0.01
Spiked Amount 26.777			Recovery	= 101.015%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.06	85	200281	9.82158	ppb		98
3) Freon 114	4.31	85	94357	10.68257	ppb		96
4) Chloromethane	4.52	50	70947	8.11873	ppb		99
5) Vinyl chloride	4.80	62	70120	10.85033	ppb		98
6) Bromomethane	5.69	94	41904	10.66775	ppb		93
7) Chloroethane	5.88	64	48868	10.82490	ppb		99
8) Dichlorofluoromethane	5.97	67	402355	12.17762	ppb		97
9) Trichlorofluoromethane	6.48	103	48040	11.04599	ppb		96
10) Acetonitrile	7.62	41	84933	138.38099	ug/l		100
11) Acrolein	7.11	56	19499	149.75391	ppb		83
12) Acetone	7.24	43	13490	10.45850	ppb		98
13) Freon-113	7.41	101	144810	10.84214	ppb		93
14) 1,1-DCE	7.63	96	83494	9.88164	ppb		79
15) t-Butanol	7.73	59	7313	115.17484	ppb		98
16) Methyl Acetate	8.14	43	42822	9.63328	ppb		100
17) Iodomethane	8.12	142	215145	11.41027	ppb		99
18) Acrylonitrile	8.52	53	18325	11.19044	ppb		92
19) Methylene chloride	8.42	84	116672	11.48123	ppb		93
20) Carbon disulfide	8.51	76	89088	10.54200	ppb		99
21) Methyl t-butyl ether (MtBE	8.84	73	218488	10.27630	ppb		97
22) Trans-1,2-DCE	9.05	96	106342	10.99329	ppb		91
23) Diisopropyl Ether	9.70	45	505815	11.15219	ppb		98
24) 1,1-DCA	9.73	63	264888	11.59541	ppb		98
25) Vinyl Acetate	9.38	43	24928	10.63277	ppb		97
26) Ethyl tert Butyl Ether	10.39	59	327244	10.60207	ppb		98
27) MEK (2-Butanone)	10.39	43	13396	10.81637	ppb		95
28) Cis-1,2-DCE	10.76	96	169961	11.11657	ppb		95
29) 2,2-Dichloropropane	10.75	77	234757	12.29885	ppb		94
30) Chloroform	11.03	83	280591	11.49374	ppb		96
31) Bromochloromethane	11.26	128	55268	11.90811	ppb		92
33) 1,1,1-TCA	11.78	97	232372	11.02490	ppb		95
34) Cyclohexane	11.94	56	209439	10.43380	ppb		99
35) 1,1-Dichloropropene	12.06	75	155162	10.68488	ppb		96
36) 2,2,4-Trimethylpentane	12.12	57	402048	10.29893	ppb		96
38) Carbon Tetrachloride	12.24	117	148300	9.93605	ppb		95
39) Tert Amyl Methyl Ether	12.30	73	253359	10.40758	ppb	#	92
40) 1,2-DCA	12.33	62	112383	10.91019	ppb		97
41) Benzene	12.44	78	545333	11.30298	ppb		98
42) TCE	13.48	95	159238	11.95389	ppb		90

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C02W.D Vial: 1
Acq On : 27 Jan 12 10:41 Operator: RS, ARS
Sample : 10ug/L Vol Std 01-27-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.15	43	431121	131.53309	ppb		96
44)	1,2-Dichloropropane	13.70	63	146489	11.46798	ppb		97
45)	Bromodichloromethane	14.06	83	168124	11.34928	ppb		94
46)	Methyl Cyclohexane	13.76	83	198550	10.67931	ppb		99
47)	Dibromomethane	14.12	93	58039	11.06808	ppb		88
48)	2-Chloroethyl vinyl ether	14.51	63	37461	9.52551	ppb		94
49)	1-Bromo-2-chloroethane	14.82	63	122062	11.15508	ppb		91
50)	Cis-1,3-Dichloropropene	14.95	75	194849	11.00386	ppb		98
51)	Toluene	15.58	91	661746	11.68550	ppb		99
52)	Trans-1,3-Dichloropropene	15.74	75	136090	11.08235	ppb		88
53)	1,1,2-TCA	16.02	83	68089	11.68345	ppb		83
56)	1,2-EDB	17.27	107	76645	10.96900	ppb		95
57)	Tetrachloroethene	16.73	164	147948	11.62049	ppb		98
58)	1-Chlorohexane	17.65	91	275628	11.77386	ppb		96
59)	1,1,1,2-Tetrachloroethane	18.10	131	152303	11.57689	ppb		97
60)	m&p-Xylene	18.30	106	648118	23.33974	ppb		99
61)	o-Xylene	19.04	106	324466	11.76543	ppb		93
62)	Styrene	19.06	104	480351	11.65698	ppb		99
64)	2-Hexanone	16.05	43	28543	11.21298	ppb		90
65)	1,3-Dichloropropane	16.44	76	137318	10.68149	ppb		96
66)	Dibromochloromethane	16.91	129	105598	11.30777	ppb		96
67)	Chlorobenzene	18.04	112	458058	11.36583	ppb		98
68)	Ethylbenzene	18.15	91	833598	11.33515	ppb		100
69)	Bromoform	19.58	173	52707	9.42842	ppb		99
71)	MIBK (methyl isobutyl keto	14.62	43	45404	9.63740	ppb		93
72)	Isopropylbenzene	19.67	105	877944	11.42157	ppb		98
73)	1,1,2,2-Tetrachloroethane	19.83	83	78537	11.06143	ppb		97
74)	1,2,3-Trichloropropane	20.09	110	7608	9.20557	ppb		89
75)	t-1,4-Dichloro-2-Butene	20.15	53	15965	9.10743	ppb	#	72
76)	Bromobenzene	20.41	156	195765	10.74559	ppb		90
77)	n-Propylbenzene	20.37	91	1055737	11.04065	ppb		99
78)	4-Ethyltoluene	20.58	105	619568	11.15353	ppb		99
79)	2-Chlorotoluene	20.67	91	661978	10.94032	ppb		99
80)	1,3,5-Trimethylbenzene	20.65	105	712038	11.38512	ppb		100
81)	4-Chlorotoluene	20.75	91	572433	10.66897	ppb		97
82)	Tert-Butylbenzene	21.29	119	757805	10.58295	ppb		99
83)	1,2,4-Trimethylbenzene	21.35	105	698686	11.23619	ppb		98
84)	Sec-Butylbenzene	21.69	105	990365	11.21065	ppb		98
85)	p-Isopropyltoluene	21.92	119	805057	11.34752	ppb		99
86)	Benzyl Chloride	22.37	91	146653	10.22585	ppb		97
87)	1,3-DCB	22.06	146	398252	11.09956	ppb		98
88)	1,4-DCB	22.23	146	372436	10.67692	ppb		98
89)	Hexachloroethane	23.54	117	158556	10.11819	ppb		97
90)	n-Butylbenzene	22.64	91	723013	11.10292	ppb		98
91)	1,2-DCB	22.86	146	313687	10.42887	ppb		98
92)	1,2-Dibromo-3-chloropropan	24.08	155	10653	9.74371	ppb		97
93)	1,2,4-Trichlorobenzene	25.52	180	103416	12.02325	ppb		95
94)	Hexachlorobutadiene	25.78	223	118531	11.32335	ppb		91
95)	Naphthalene	25.88	128	285724	11.10651	ppb		99
96)	1,2,3-Trichlorobenzene	26.24	180	79818	11.53993	ppb		96

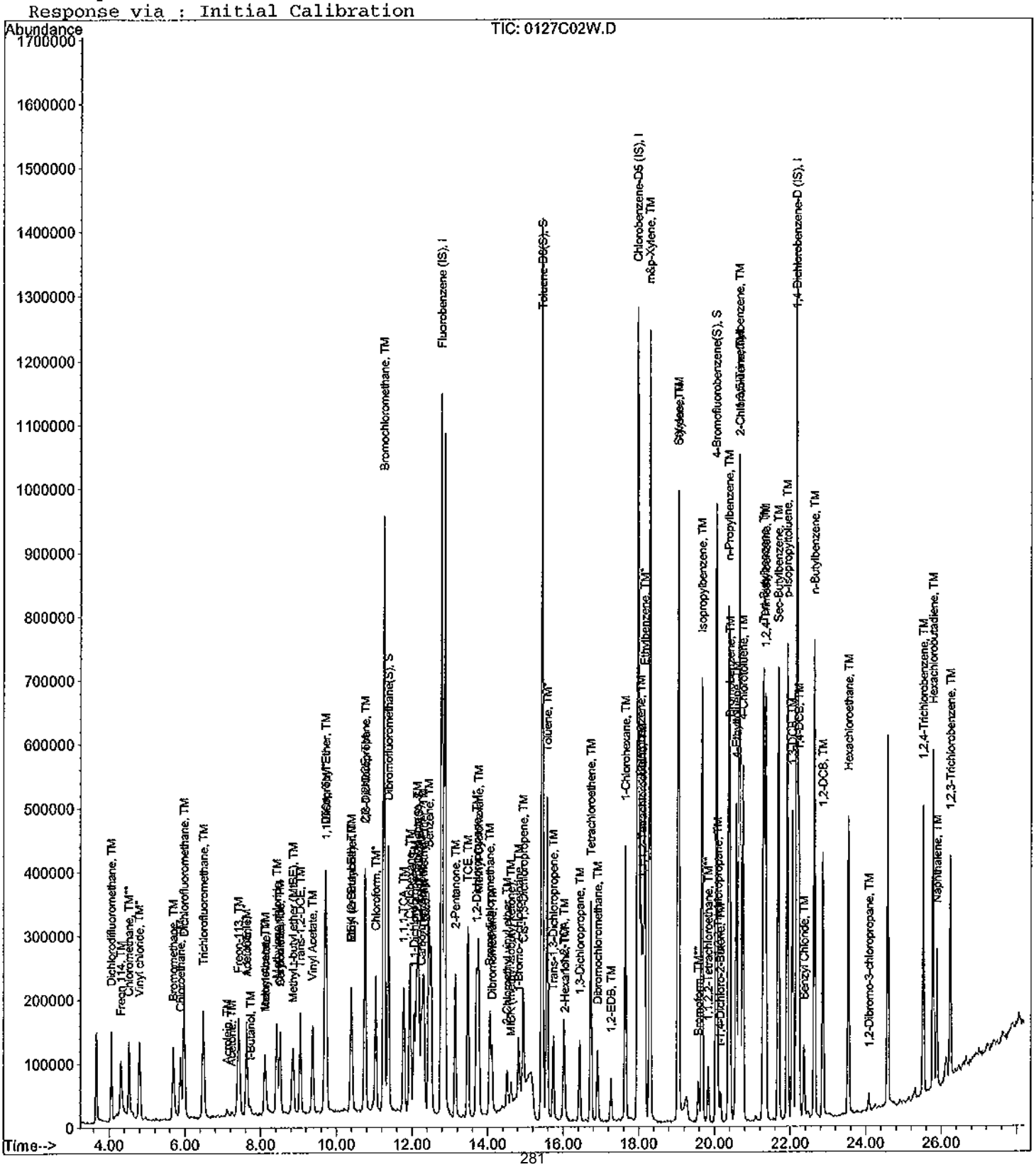
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C02W.D Vial: 1
Acq On : 27 Jan 12 10:41 Operator: RS, ARS
Sample : 10ug/L Vol Std 01-27-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66795
Case No: Initial Cal. Date: 01/31/12
Matrix: Water Instrument: Thor Initials:

			0131T04W.D	0131T05W.D	0131T06W.D	0131T07W.D	0131T08W.D	0131T09W.D	0131T10W.D	0131T11W.D						
		Compound	0.3	0.5	1	5	10	20	40	100			Avg	%RSD		r^2
1	I	Fluorobenzene (IS)														
2	TM	Dichlorodifluoromethane	0.2549	0.2375	0.2746	0.2473	0.2865	0.2916	0.3128	0.3147			0.28	11	TM	
3	TM	Freon 114	0.1208	0.1484	0.1764	0.1487	0.1536	0.1699	0.1678	0.1768			0.16	12	TM	
4	TM**	Chloromethane	0.4270	0.3901	0.3375	0.3810	0.3605	0.3412	0.3544	0.3743			0.37	7.9	TM** ✓	
5	TM*	Vinyl chloride	0.4115	0.3788	0.3518	0.3710	0.3745	0.3550	0.3692	0.3800			0.37	4.9	TM* ✓	
6	TM	Bromomethane	0.3089	0.2815	0.2471	0.2237	0.2041	0.2106	0.2630	0.2640			0.25	14	TM	
7	TML	Chloroethane	0.0054	0.2878	0.2243	0.2435	0.2429	0.2270	0.2348	0.2416			0.21	40	TML	1.000
8	TM	Dichlorofluoromethane	0.6890	0.6093	0.5890	0.5906	0.5798	0.5729	0.5688	0.6015			0.60	6.4	TM	
9	TM	Trichlorofluoromethane	0.4430	0.4679	0.4755	0.4490	0.4894	0.4663	0.4781	0.4982			0.47	4.0	TM	
10	TM	Acrolein	0.0052	0.0052	0.0049	0.0051	0.0055	0.0058	0.0066				0.01	11	TM	
11	TML	Acetone		0.2401	0.1742	0.0732	0.0670	0.0625					0.12	65	TML	0.999
12	TM	Freon-113	0.1916	0.2103	0.2461	0.2296	0.2342	0.2424	0.2401	0.2506			0.23	8.7	TM	
13	TM*	1,1-DCE	0.2338	0.2145	0.2031	0.2014	0.2069	0.2126	0.2037	0.2161			0.21	5.0	TM* ✓	
14	TM	t-Butanol	0.0073	0.0074	0.0067	0.0066	0.0068	0.0067	0.0073	0.0072			0.01	4.8	TM	
15	TML	Methyl Acetate	0.7352	0.3947	0.3006	0.2201	0.2084	0.1849	0.1870	0.1948			0.30	62	TML	0.999
16	TML	Iodomethane	0.1827	0.1743	0.1793	0.2940	0.3436	0.3744	0.3864	0.4188			0.29	35	TML	0.999
17	TM	Acrylonitrile	0.0536	0.0778	0.0550	0.0708	0.0708	0.0686	0.0668	0.0699			0.07	12	TM	
18	TML	Methylene chloride	0.5250	0.4124	0.2936	0.2388	0.2241	0.2187	0.2143	0.2209			0.29	39	TML	1.000
19	TM	Carbon disulfide	0.3943	0.3722	0.3456	0.3750	0.3798	0.3853	0.3873	0.4143			0.38	5.1	TM	
20	TM	Methyl t-butyl ether (MtBE)	0.7991	0.8156	0.7192	0.7624	0.7320	0.7310	0.7337	0.7721			0.76	4.7	TM	
21	TM	Trans-1,2-DCE	0.1689	0.1958	0.1491	0.1616	0.1652	0.1626	0.1600	0.1680			0.17	8.0	TM	
22	TM	Diisopropyl Ether	0.1404	0.1141	0.0999	0.1097	0.1130	0.1112	0.1102	0.1178			0.11	10	TM	
23	TM**	1,1-DCA	0.4981	0.4815	0.4103	0.4513	0.4385	0.4319	0.4318	0.4565			0.45	6.4	TM** ✓	
24	TM	Vinyl Acetate	0.2653	0.2929	0.2722	0.2761	0.2680	0.2709	0.2699	0.2924			0.28	3.9	TM	
25	TM	Ethyl tert Butyl Ether	0.8684	0.8558	0.7829	0.8326	0.8191	0.8045	0.8212	0.8765			0.84	4.3	TM	
26	TML	MEK (2-Butanone)	0.1689	0.1081	0.1488	0.1014	0.0864	0.0846	0.0862	0.0949			0.11	29	TML	0.998
27	TM	Cis-1,2-DCE	0.3414	0.2927	0.2695	0.3033	0.2847	0.2779	0.2795	0.2973			0.29	7.6	TM	
28	TM	2,2-Dichloropropane	0.4248	0.3897	0.3298	0.3728	0.3643	0.3569	0.3527	0.3780			0.37	7.6	TM	
29	TM*	Chloroform	0.6043	0.5811	0.5065	0.5367	0.5153	0.5089	0.5064	0.5399			0.54	6.9	TM* ✓	
30	TM	Bromochloromethane	0.1551	0.1418	0.1296	0.1430	0.1345	0.1316	0.1311	0.1401			0.14	6.1	TM	
31	S	Dibromofluoromethane(S)	0.4413	0.3957	0.3535	0.3313	0.3345	0.3141	0.3299	0.3723			0.36	12	S	
32	TM	1,1,1-TCA	0.4351	0.3779	0.3827	0.3902	0.3755	0.3922	0.3874	0.4133			0.39	5.1	TM	
33	TM	Cyclohexane	0.2527	0.2073	0.2046	0.1837	0.1852	0.1874	0.1893	0.2022			0.20	11	TM	
34	TM	1,1-Dichloropropene	0.2669	0.2380	0.2400	0.2568	0.2511	0.2530	0.2582	0.2693			0.25	4.4	TM	
35	TM	2,2,4-Trimethylpentane	0.6612	0.6493	0.7517	0.7184	0.7320	0.7535	0.7725	0.8292			0.73	8.0	TM	

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66795
Case No: Initial Cal. Date: 01/31/12
Matrix: Water Instrument: Thor Initials:

		Compound	0.3	0.5	1	5	10	20	40	100			Avg	%RSD		r²
36	S	1,2-DCA-D4(S)	0.4858	0.4406	0.3876	0.3585	0.3714	0.3356	0.3514				0.39	14	S	
37	TM	Carbon Tetrachloride	0.2631	0.2882	0.2974	0.2901	0.2846	0.2998	0.3052	0.3281			0.29	6.3	TM	
38	TM	Tert Amyl Methyl Ether	0.8742	0.8060	0.7428	0.7767	0.7602	0.7564	0.7707	0.8276			0.79	5.6	TM	
39	TM	1,2-DCA	0.3652	0.4055	0.3342	0.3648	0.3649	0.3507	0.3422	0.3635			0.36	5.9	TM	
40	TM	Benzene	1.081	1.033	0.9242	0.9654	0.9485	0.9278	0.9232	0.9768			0.97	5.9	TM	
41	TM	TCE	0.2928	0.2664	0.2762	0.2883	0.2724	0.2673	0.2636	0.2808			0.28	3.9	TM	
42	TM	2-Pentanone	0.1657	0.1804	0.1635	0.1662	0.1735	0.1683	0.1774	0.1931			0.17	5.7	TM	
43	TM*	1,2-Dichloropropane	0.3468	0.3396	0.3236	0.3248	0.3266	0.3080	0.3067	0.3284			0.33	4.2	TM*	
44	TM	Bromodichloromethane	0.4441	0.4366	0.3920	0.4114	0.3978	0.4014	0.4088	0.4375			0.42	4.9	TM	
45	TM	Methyl Cyclohexane	0.3335	0.3521	0.3728	0.3691	0.3727	0.3852	0.3869	0.4173			0.37	6.6	TM	
46	TM	Dibromomethane	0.2007	0.1873	0.1659	0.1763	0.1711	0.1631	0.1642	0.1736			0.18	7.4	TM	
47	TM	2-Chloroethyl vinyl ether													TM	
48	TM	MIBK (methyl isobutyl ketone	0.1022	0.0948	0.0856	0.0813	0.0822	0.0806	0.0852	0.1008			0.09	10.0	TM	
49	TM	1-Bromo-2-chloroethane	0.2815	0.2567	0.2332	0.2333	0.2353	0.2311	0.2269	0.2416			0.24	7.5	TM	
50	TM	Cis-1,3-Dichloropropene	0.4678	0.4181	0.3954	0.4329	0.4271	0.4247	0.4312	0.4675			0.43	5.6	TM	
51	TM*	Toluene	1.278	1.324	1.169	1.222	1.210	1.191	1.196	1.294			1.2	4.5	TM*	
52	TM	Trans-1,3-Dichloropropene	0.3528	0.3544	0.3513	0.3657	0.3738	0.3757	0.3892	0.4268			0.37	6.7	TM	
53	TM	1,1,2-TCA	0.2472	0.2335	0.2331	0.2427	0.2359	0.2336	0.2354	0.2529			0.24	3.1	TM	
54	TML	2-Hexanone	0.3599	0.1769	0.1864	0.1449	0.1365	0.1311	0.1358	0.1585			0.18	42	TML	0.996
55	IS	Chlorobenzene-D5 (IS)														
56	S	Toluene-D8(S)		1.867	1.561	1.509	1.550	1.459	1.494	1.594			1.6	8.6	S	
57	TM	1,2-EDB	0.3690	0.3427	0.3110	0.3248	0.3224	0.3138	0.3187	0.3209			0.33	5.8	TM	
58	TM	Tetrachloroethene	0.3875	0.4226	0.3793	0.3992	0.3878	0.3774	0.3767	0.3764			0.39	4.1	TM	
59	TML	1-Chlorohexane	0.8476	0.6363	0.5315	0.5050	0.5015	0.5153	0.5193	0.5386			0.57	21	TML	1.000
60	TM	1,1,1,2-Tetrachloroethane	0.4239	0.4285	0.3659	0.4122	0.4040	0.4059	0.4134	0.4422			0.41	5.5	TM	
61	TM	m&p-Xylene	0.7870	0.7250	0.6351	0.7059	0.7136	0.7187	0.7297	0.7602			0.72	6.1	TM	
62	TM	o-Xylene	0.6805	0.7642	0.6644	0.7317	0.7212	0.7236	0.7330	0.7712			0.72	5.1	TM	
63	TM	Styrene	1.189	1.178	1.105	1.188	1.230	1.250	1.299	1.392			1.2	7.1	TM	
64	S	4-Bromofluorobenzene(S)		0.7249	0.5812	0.5598	0.5771	0.5485	0.5721				0.59	11	S	
65	TM	1,3-Dichloropropane	0.6067	0.5735	0.5317	0.5788	0.5675	0.5459	0.5496	0.5517			0.56	4.2	TM	
66	TM	Dibromochloromethane	0.3972	0.4096	0.3471	0.3712	0.3826	0.3797	0.3970	0.4159			0.39	5.7	TM	
67	TM**	Chlorobenzene	1.378	1.160	1.072	1.171	1.138	1.124	1.128	1.167			1.2	7.8	TM**	
68	TM*	Ethylbenzene	2.060	1.993	1.723	1.874	1.867	1.870	1.876	1.945			1.9	5.3	TM*	
69	TM**	Bromoform	0.2569	0.2033	0.2070	0.2399	0.2472	0.2456	0.2593	0.2844			0.24	11	TM**	
70	IS	1,4-Dichlorobenzene-D (IS)														

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66795
Case No: Initial Cal. Date: 01/31/12
Matrix: Water Instrument: Thor Initials:

		Compound	0.3	0.5	1	5	10	20	40	100			Avg	%RSD		
71	TM	Isopropylbenzene	3.958	3.490	3.230	3.512	3.348	3.255	3.194	3.312			3.4	7.3	TM	
72	TM**	1,1,2,2-Tetrachloroethane	0.7485	0.7185	0.7445	0.7686	0.7451	0.7176	0.7073	0.7255			0.73	2.8	TM**	
73	TM	1,2,3-Trichloropropane	0.2972	0.2098	0.2169	0.2460	0.2278	0.2161	0.2078	0.2112			0.23	13	TM	
74	TM	t-1,4-Dichloro-2-Butene	0.2166	0.1590	0.1702	0.1647	0.1552	0.1513	0.1554	0.1605			0.17	13	TM	
75	TM	Bromobenzene	1.170	1.193	1.056	1.048	0.9857	0.9432	0.9215	0.9472			1.0	10	TM	
76	TM	n-Propylbenzene	4.471	4.235	4.124	4.259	4.157	4.117	4.027	4.186			4.2	3.2	TM	
77	TM	4-Ethyltoluene	2.494	2.422	2.314	2.481	2.421	2.420	2.378	2.465			2.4	2.4	TM	
78	TM	2-Chlorotoluene	3.134	2.891	2.647	2.886	2.816	2.742	2.670	2.743			2.8	5.6	TM	
79	TM	1,3,5-Trimethylbenzene	3.380	2.861	2.842	3.048	3.022	2.972	2.929	3.069			3.0	5.6	TM	
80	TM	4-Chlorotoluene	2.835	2.942	2.779	3.004	2.882	2.830	2.768	2.891			2.9	2.8	TM	
81	TM	Tert-Butylbenzene	3.344	3.223	2.683	2.848	2.649	2.647	2.597	2.710			2.8	10	TM	
82	TM	1,2,4-Trimethylbenzene	3.249	2.928	2.807	3.087	2.979	2.995	2.956	3.109			3.0	4.4	TM	
83	TM	Sec-Butylbenzene	3.962	3.760	3.649	3.877	3.868	3.793	3.742	3.946			3.8	2.8	TM	
84	TM	p-Isopropyltoluene	3.460	3.249	3.022	3.215	3.214	3.199	3.201	3.379			3.2	4.0	TM	
85	TM	Benzyl Chloride	0.8433	0.8167	0.7254	0.8258	0.8734	0.9024	0.9721	1.140			0.89	14	TM	
86	TM	1,3-DCB	2.136	1.912	1.798	1.918	1.860	1.790	1.763	1.850			1.9	6.3	TM	
87	TM	1,4-DCB	2.004	2.097	1.820	1.940	1.847	1.800	1.780	1.864			1.9	5.8	TM	
88	TM	n-Butylbenzene	2.793	2.514	2.472	2.759	2.788	2.825	2.847	3.080			2.8	7.0	TM	
89	TM	1,2-DCB	1.904	1.825	1.731	1.868	1.742	1.678	1.658	1.748			1.8	5.0	TM	
90	TM	Hexachloroethane	0.5443	0.4990	0.5139	0.5277	0.5087	0.4836	0.5057	0.5650			0.52	5.0	TM	
91	TM	1,2-Dibromo-3-chloropropane	0.1220	0.1125	0.0927	0.0866	0.0809	0.0832	0.0877	0.0980			0.10	15	TM	
92	TM	1,2,4-Trichlorobenzene	0.7930	0.6809	0.6079	0.6892	0.6781	0.6834	0.7204	0.8186			0.71	9.6	TM	
93	TM	Hexachlorobutadiene	0.7059	0.7687	0.6453	0.6666	0.6342	0.6176	0.6125	0.6572			0.66	7.8	TM	
94	TM	Naphthalene	1.857	1.530	1.459	1.664	1.745	1.845	2.030	2.266			1.8	15	TM	
95	TM	1,2,3-Trichlorobenzene	0.9654	0.8415	0.7969	0.9309	0.9537	0.9607	1.041	1.138			0.95	11	TM	
96																
97																
98																
99																
100																
101																
102																
103																
104																
105																

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T04W.D Vial: 4
Acq On : 31 Jan 12 11:46 Operator:
Sample : 0.3ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.74	96	674432	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	9.89	117	525120	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	269760	25.00000 ppb		0.00
System Monitoring Compounds						
31) Dibromofluoromethane(S)	5.96	111	7143	0.73742 ppb		-0.01
Spiked Amount 32.661			Recovery =	2.257%		
36) 1,2-DCA-D4(S)	6.33	65	7863	0.74710 ppb		-0.02
Spiked Amount 30.896			Recovery =	2.418%		
56) Toluene-D8(S)	8.44	98	28494	0.86066 ppb		0.00
Spiked Amount 33.937			Recovery =	2.537%		
64) 4-Bromofluorobenzene(S)	11.06	95	11780	0.94425 ppb		0.00
Spiked Amount 33.154			Recovery =	2.847%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.27	85	2063	0.27559 ppb		89
3) Freon 114	1.39	85	978	0.22971 ppb	#	69
4) Chloromethane	1.43	50	3456	0.34554 ppb		90
5) Vinyl chloride	1.53	62	3330	0.33008 ppb		95
6) Bromomethane	1.85	94	2500	0.37015 ppb		98
7) Chloroethane	1.99	64	44	0.28608 ppb	#	45
8) Dichlorofluoromethane	2.16	67	5576	0.34443 ppb		95
9) Trichlorofluoromethane	2.22	101	3585	0.28219 ppb		99
10) Acrolein	2.69	55	2089	14.12018 ppb		79
11) Acetone	2.89	43	3158	0.35449 ppb		84
12) Freon-113	2.84	101	1551	0.24931 ppb		89
13) 1,1-DCE	2.81	61	1892	0.33160 ppb	#	76
14) t-Butanol	3.71	59	2941	15.58401 ppb	#	90
15) Methyl Acetate	3.35	43	5950	0.83139 ppb		86
16) Iodomethane	2.96	142	1479	1.36957 ppb	#	75
17) Acrylonitrile	3.83	52	434	0.24136 ppb	#	61
18) Methylene chloride	3.44	84	4249	0.52590 ppb		94
19) Carbon disulfide	3.04	76	3191	0.30987 ppb	#	69
20) Methyl t-butyl ether (MtBE	3.91	73	6467	0.31620 ppb		91
21) Trans-1,2-DCE	3.86	96	1367	0.30456 ppb		90
22) Diisopropyl Ether	4.70	59	1136	0.36768 ppb	#	82
23) 1,1-DCA	4.51	63	4031	0.33206 ppb		94
24) Vinyl Acetate	4.72	87	2147	0.28838 ppb		68
25) Ethyl tert Butyl Ether	5.22	59	7190	0.31914 ppb		97
26) MEK (2-Butanone)	5.42	43	1367	1.03125 ppb	#	50
27) Cis-1,2-DCE	5.33	96	2763	0.34920 ppb		94
28) 2,2-Dichloropropane	5.33	77	3438	0.34339 ppb		89
29) Chloroform	5.77	83	4891	0.33736 ppb		87
30) Bromochloromethane	5.63	128	1255	0.33625 ppb		73
32) 1,1,1-TCA	5.97	97	3521	0.33102 ppb		97
33) Cyclohexane	6.03	41	2045	0.37615 ppb		86
34) 1,1-Dichloropropene	6.18	75	2160	0.31501 ppb	#	76
35) 2,2,4-Trimethylpentane	6.55	57	5351	0.27043 ppb	#	71
37) Carbon Tetrachloride	6.17	117	2129	0.26792 ppb		97
38) Tert Amyl Methyl Ether	6.60	73	7075	0.33225 ppb		95
39) 1,2-DCA	6.43	62	2956	0.30321 ppb	#	80
40) Benzene	6.41	78	8750	0.33352 ppb		92
41) TCE	7.16	95	2370	0.31833 ppb		98
42) 2-Pentanone	7.38	43	67036	14.32059 ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T04W.D Vial: 4
Acq On : 31 Jan 12 11:46 Operator:
Sample : 0.3ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	1,2-Dichloropropane	7.39	63	2807	0.31959	ppb	#	85
44)	Bromodichloromethane	7.69	83	3594	0.32011	ppb	#	92
45)	Methyl Cyclohexane	7.37	83	2699	0.26772	ppb		97
46)	Dibromomethane	7.50	93	1624	0.34345	ppb	#	62
48)	MIBK (methyl isobutyl ket	9.20	43	827	0.34412	ppb	#	91
49)	1-Bromo-2-chloroethane	8.00	63	2278	0.34831	ppb		96
50)	Cis-1,3-Dichloropropene	8.16	75	3786	0.32405	ppb		91
51)	Toluene	8.51	91	10342	0.31030	ppb		97
52)	Trans-1,3-Dichloropropene	8.74	75	2855	0.28318	ppb	#	43
53)	1,1,2-TCA	8.92	83	2001	0.30997	ppb	#	74
54)	2-Hexanone	9.20	43	2913	1.77102	ppb	#	85
57)	1,2-EDB	9.41	107	2325	0.33756	ppb	#	80
58)	Tetrachloroethene	9.07	166	2442	0.29936	ppb		90
59)	1-Chlorohexane	9.92	91	5341	0.81330	ppb		96
60)	1,1,1,2-Tetrachloroethane	10.00	131	2671	0.30865	ppb		75
61)	m&p-Xylene	10.16	106	9919	0.65414	ppb		97
62)	o-Xylene	10.55	106	4288	0.28208	ppb		79
63)	Styrene	10.56	104	7492	0.29025	ppb		91
65)	1,3-Dichloropropane	9.08	76	3823	0.32316	ppb		96
66)	Dibromochloromethane	9.30	129	2503	0.30749	ppb		82
67)	Chlorobenzene	9.92	112	8684	0.35417	ppb		94
68)	Ethylbenzene	10.04	91	12979	0.32501	ppb		97
69)	Bromoform	10.73	173	1619	0.31725	ppb		97
71)	Isopropylbenzene	10.93	105	12814	0.34801	ppb	#	89
72)	1,1,2,2-Tetrachloroethane	11.21	83	2423	0.30574	ppb		94
73)	1,2,3-Trichloropropane	11.24	110	962	0.38916	ppb		78
74)	t-1,4-Dichloro-2-Butene	11.26	53	701	0.38994	ppb	#	27
75)	Bromobenzene	11.21	156	3786	0.33964	ppb		87
76)	n-Propylbenzene	11.33	91	14474	0.31960	ppb		96
77)	4-Ethyltoluene	11.45	105	8072	0.30859	ppb		90
78)	2-Chlorotoluene	11.41	91	10144	0.33383	ppb		93
79)	1,3,5-Trimethylbenzene	11.51	105	10942	0.33630	ppb		94
80)	4-Chlorotoluene	11.52	91	9176	0.29668	ppb		93
81)	Tert-Butylbenzene	11.84	119	10825	0.35353	ppb		98
82)	1,2,4-Trimethylbenzene	11.88	105	10519	0.32346	ppb		83
83)	Sec-Butylbenzene	12.05	105	12826	0.31079	ppb		89
84)	p-Isopropyltoluene	12.20	119	11202	0.32018	ppb		95
85)	Benzyl Chloride	12.37	91	2730	0.28510	ppb	#	91
86)	1,3-DCB	12.15	146	6915	0.34116	ppb		94
87)	1,4-DCB	12.24	146	6486	0.31739	ppb		98
88)	n-Butylbenzene	12.61	91	9040	0.30357	ppb		96
89)	1,2-DCB	12.61	146	6165	0.32295	ppb		99
90)	Hexachloroethane	12.87	117	1762	0.31494	ppb		95
91)	1,2-Dibromo-3-chloropropan	13.38	157	395	0.38348	ppb	#	47
92)	1,2,4-Trichlorobenzene	14.22	180	2567	0.33558	ppb		98
93)	Hexachlorobutadiene	14.40	225	2285	0.31917	ppb		90
94)	Naphthalene	14.45	128	6010	0.30953	ppb		97
95)	1,2,3-Trichlorobenzene	14.70	180	3125	0.30372	ppb		94

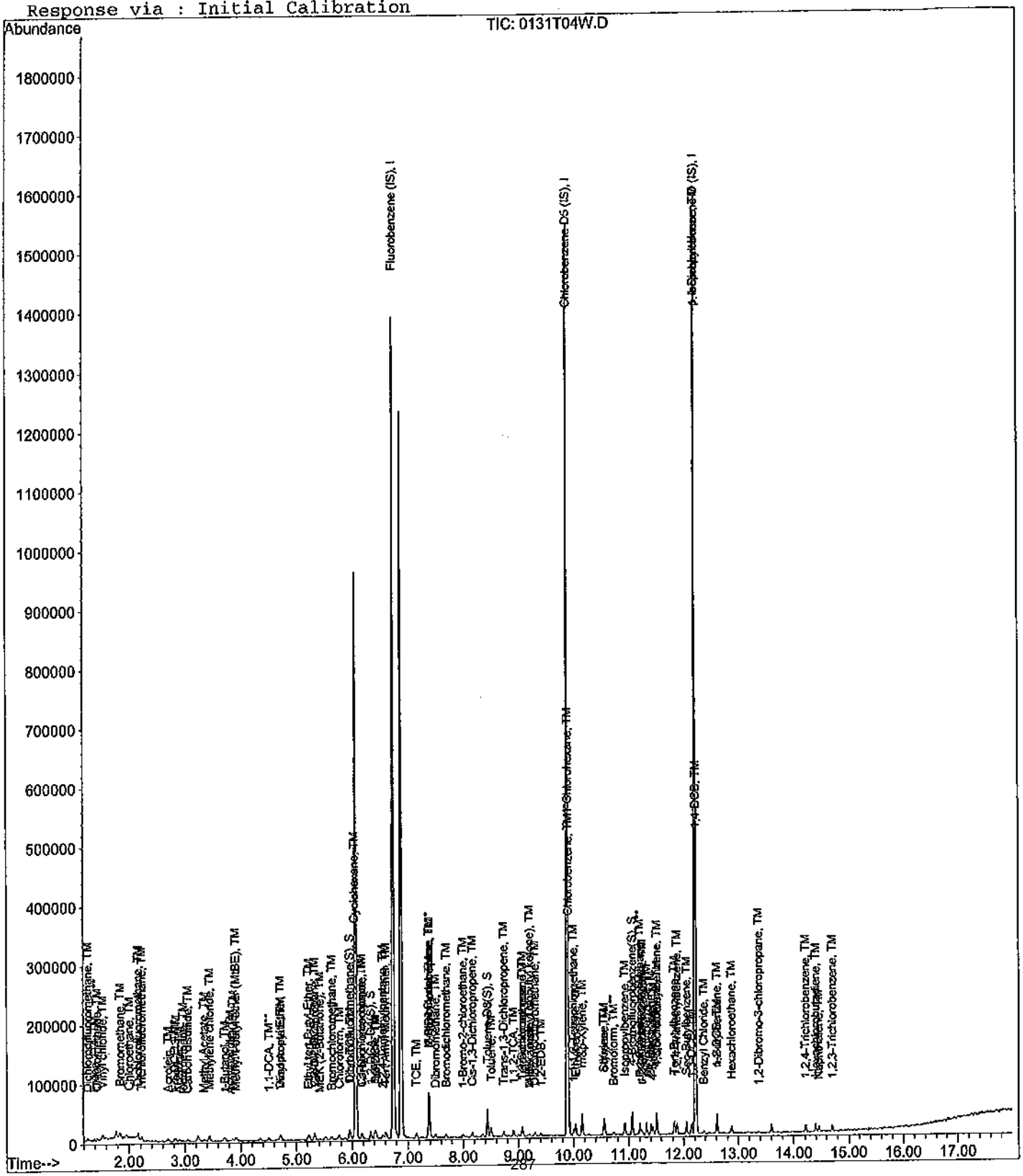
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T04W.D Vial: 4
Acq On : 31 Jan 12 11:46 Operator:
Sample : 0.3ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T05W.D Vial: 5
Acq On : 31 Jan 12 12:14 Operator:
Sample : 0.5ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.75	96	651584	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	9.89	117	515520	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	258112	25.00000 ppb		0.00
System Monitoring Compounds						
31) Dibromofluoromethane(S)	5.97	111	10312	1.10190 ppb		0.00
Spiked Amount 32.661			Recovery =	3.374%		
36) 1,2-DCA-D4(S)	6.35	65	11483	1.12931 ppb		0.00
Spiked Amount 30.896			Recovery =	3.654%		
56) Toluene-D8(S)	8.45	98	38494	1.18436 ppb		0.00
Spiked Amount 33.937			Recovery =	3.489%		
64) 4-Bromofluorobenzene(S)	11.06	95	14949	1.22058 ppb		0.00
Spiked Amount 33.154			Recovery =	3.683%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.30	85	3095	0.42794 ppb		99
3) Freon 114	1.42	85	1934	0.47018 ppb		86
4) Chloromethane	1.46	50	5084	0.52613 ppb		91
5) Vinyl chloride	1.57	62	4936	0.50643 ppb		96
6) Bromomethane	1.88	94	3669	0.56229 ppb		99
7) Chloroethane	1.99	64	3751	0.87592 ppb		96
8) Dichlorofluoromethane	2.20	67	7940	0.50766 ppb		94
9) Trichlorofluoromethane	2.26	101	6098	0.49683 ppb		87
10) Acrolein	2.73	55	3405	23.82246 ppb		84
11) Acetone	2.94	43	3129	0.40657 ppb		94
12) Freon-113	2.87	101	2740	0.45588 ppb		89
13) 1,1-DCE	2.84	61	2795	0.50704 ppb		94
14) t-Butanol	3.74	59	4821	26.44169 ppb		97
15) Methyl Acetate	3.38	43	5143	0.71090 ppb		92
16) Iodomethane	2.99	142	2272	1.44663 ppb	#	90
17) Acrylonitrile	3.85	52	1014	0.58369 ppb		72
18) Methylene chloride	3.47	84	5374	0.74781 ppb		82
19) Carbon disulfide	3.08	76	4850	0.48748 ppb	#	86
20) Methyl t-butyl ether (MtBE	3.95	73	10629	0.53791 ppb		93
21) Trans-1,2-DCE	3.89	96	2551	0.58827 ppb		79
22) Diisopropyl Ether	4.74	59	1487	0.49816 ppb		97
23) 1,1-DCA	4.54	63	6275	0.53504 ppb		96
24) Vinyl Acetate	4.74	87	3817	0.53067 ppb		88
25) Ethyl tert Butyl Ether	5.24	59	11153	0.51240 ppb	#	87
26) MEK (2-Butanone)	5.42	43	1409	1.06730 ppb		94
27) Cis-1,2-DCE	5.35	96	3815	0.49906 ppb		89
28) 2,2-Dichloropropane	5.34	77	5079	0.52508 ppb		91
29) Chloroform	5.78	83	7573	0.54068 ppb		97
30) Bromochloromethane	5.65	128	1848	0.51249 ppb		94
32) 1,1,1-TCA	5.98	97	4925	0.47925 ppb		98
33) Cyclohexane	6.05	41	2702	0.51443 ppb	#	1
34) 1,1-Dichloropropene	6.18	75	3102	0.46825 ppb		92
35) 2,2,4-Trimethylpentane	6.57	57	8461	0.44259 ppb	#	79
37) Carbon Tetrachloride	6.18	117	3756	0.48925 ppb		94
38) Tert Amyl Methyl Ether	6.62	73	10504	0.51058 ppb	#	92
39) 1,2-DCA	6.44	62	5284	0.56101 ppb		99
40) Benzene	6.42	78	13461	0.53108 ppb		97
41) TCE	7.16	95	3472	0.48270 ppb		98
42) 2-Pentanone	7.39	43	117557	25.99376 ppb		99

(#) = qualifier out of range (m) = manual integration
0131T05W.D TALLW.M Wed Feb 01 10:41:00 2012

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T05W.D Vial: 5
Acq On : 31 Jan 12 12:14 Operator:
Sample : 0.5ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	1,2-Dichloropropane	7.40	63	4425	0.52148 ppb	#	89
44)	Bromodichloromethane	7.69	83	5689	0.52447 ppb		90
45)	Methyl Cyclohexane	7.38	83	4589	0.47115 ppb		96
46)	Dibromomethane	7.51	93	2441	0.53434 ppb		90
48)	MIBK (methyl isobutyl ket	9.20	43	1236	0.53234 ppb	#	97
49)	1-Bromo-2-chloroethane	8.00	63	3345	0.52939 ppb		99
50)	Cis-1,3-Dichloropropene	8.17	75	5448	0.48266 ppb		85
51)	Toluene	8.51	91	17252	0.53577 ppb		96
52)	Trans-1,3-Dichloropropene	8.74	75	4618	0.47411 ppb		89
53)	1,1,2-TCA	8.92	83	3043	0.48792 ppb		93
54)	2-Hexanone	9.20	43	2305	1.64646 ppb	#	97
57)	1,2-EDB	9.41	107	3533	0.52249 ppb		94
58)	Tetrachloroethene	9.07	166	4357	0.54407 ppb		93
59)	1-Chlorohexane	9.92	91	6561	0.93216 ppb		84
60)	1,1,1,2-Tetrachloroethane	10.01	131	4418	0.52003 ppb		98
61)	m&p-Xylene	10.16	106	14950	1.00428 ppb		96
62)	o-Xylene	10.56	106	7879	0.52796 ppb		87
63)	Styrene	10.57	104	12143	0.47919 ppb		97
65)	1,3-Dichloropropane	9.08	76	5913	0.50914 ppb	#	82
66)	Dibromochloromethane	9.31	129	4223	0.52845 ppb		100
67)	Chlorobenzene	9.92	112	11961	0.49691 ppb		95
68)	Ethylbenzene	10.04	91	20549	0.52416 ppb		99
69)	Bromoform	10.73	173	2096	0.41837 ppb		98
71)	Isopropylbenzene	10.93	105	18017	0.51139 ppb		94
72)	1,1,2,2-Tetrachloroethane	11.21	83	3709	0.48913 ppb		84
73)	1,2,3-Trichloropropane	11.24	110	1083	0.45788 ppb		75
74)	t-1,4-Dichloro-2-Butene	11.26	53	821	0.47730 ppb	#	60
75)	Bromobenzene	11.21	156	6158	0.57735 ppb		98
76)	n-Propylbenzene	11.33	91	21862	0.50452 ppb		99
77)	4-Ethyltoluene	11.45	105	12503	0.49955 ppb		98
78)	2-Chlorotoluene	11.41	91	14924	0.51330 ppb		99
79)	1,3,5-Trimethylbenzene	11.51	105	14770	0.47444 ppb		91
80)	4-Chlorotoluene	11.52	91	15185	0.51312 ppb		92
81)	Tert-Butylbenzene	11.84	119	16639	0.56793 ppb		94
82)	1,2,4-Trimethylbenzene	11.88	105	15113	0.48569 ppb		91
83)	Sec-Butylbenzene	12.05	105	19408	0.49151 ppb		96
84)	p-Isopropyltoluene	12.20	119	16772	0.50101 ppb		97
85)	Benzyl Chloride	12.37	91	4216	0.46016 ppb		98
86)	1,3-DCB	12.15	146	9871	0.50898 ppb		99
87)	1,4-DCB	12.24	146	10826	0.55367 ppb		96
88)	n-Butylbenzene	12.61	91	12979	0.45551 ppb		99
89)	1,2-DCB	12.61	146	9420	0.51573 ppb		93
90)	Hexachloroethane	12.87	117	2576	0.48122 ppb		95
91)	1,2-Dibromo-3-chloropropan	13.37	157	581	0.58951 ppb		88
92)	1,2,4-Trichlorobenzene	14.21	180	3515	0.48024 ppb		89
93)	Hexachlorobutadiene	14.40	225	3968	0.57926 ppb		87
94)	Naphthalene	14.45	128	7896	0.42501 ppb	#	82
95)	1,2,3-Trichlorobenzene	14.70	180	4344	0.44124 ppb	#	89

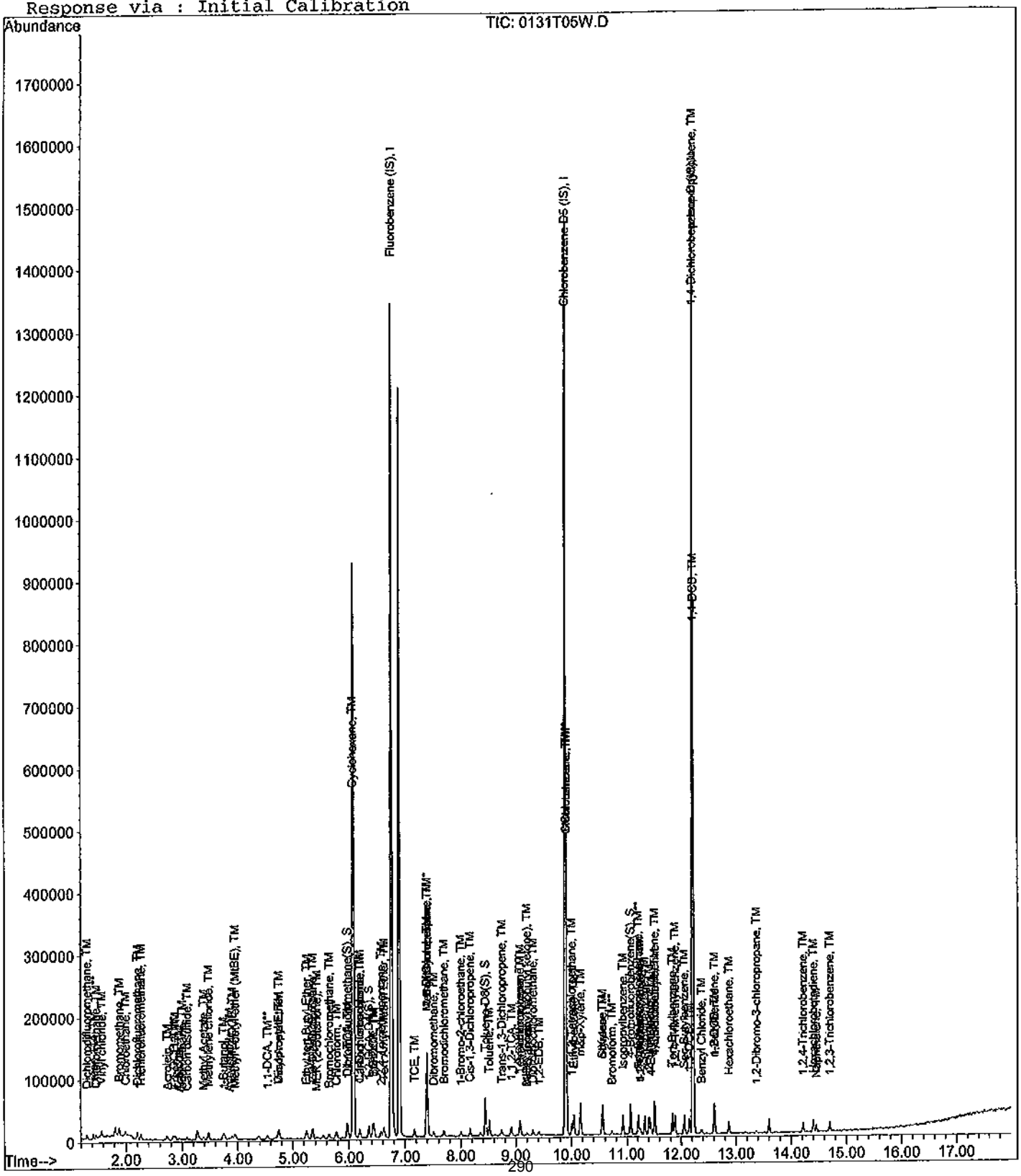
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T05W.D Vial: 5
Acq On : 31 Jan 12 12:14 Operator:
Sample : 0.5ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T06W.D Vial: 6
Acq On : 31 Jan 12 12:42 Operator:
Sample : 1.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.75	96	690752	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	9.89	117	558976	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	272256	25.00000 ppb		0.00
System Monitoring Compounds						
31) Dibromofluoromethane(S)	5.97	111	19536	1.96918 ppb		0.00
Spiked Amount 32.661			Recovery =	6.029%		
36) 1,2-DCA-D4(S)	6.35	65	21421	1.98722 ppb		0.00
Spiked Amount 30.896			Recovery =	6.431%		
56) Toluene-D8(S)	8.45	98	69787	1.98024 ppb		0.00
Spiked Amount 33.937			Recovery =	5.834%		
64) 4-Bromofluorobenzene(S)	11.06	95	25991	1.95717 ppb		0.00
Spiked Amount 33.154			Recovery =	5.903%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.30	85	7587	0.98957 ppb		98
3) Freon 114	1.42	85	4875	1.11798 ppb		100
4) Chloromethane	1.46	50	9325	0.91030 ppb		99
5) Vinyl chloride	1.57	62	9719	0.94061 ppb		97
6) Bromomethane	1.87	94	6826	0.98679 ppb		94
7) Chloroethane	1.98	64	6198	1.20922 ppb		90
8) Dichlorofluoromethane	2.19	67	16273	0.98144 ppb		99
9) Trichlorofluoromethane	2.25	101	13137	1.00964 ppb		98
10) Acrolein	2.72	55	6794	44.83770 ppb		88
11) Acetone	2.93	43	4814	1.34941 ppb	#	70
12) Freon-113	2.87	101	6799	1.06707 ppb		97
13) 1,1-DCE	2.83	61	5611	0.96017 ppb		95
14) t-Butanol	3.75	59	9193	47.56172 ppb		96
15) Methyl Acetate	3.38	43	8306	1.24667 ppb		100
16) Iodomethane	2.99	142	4953	1.66601 ppb		86
17) Acrylonitrile	3.84	52	1519	0.82481 ppb		96
18) Methylene chloride	3.47	84	8113	1.14636 ppb		84
19) Carbon disulfide	3.07	76	9549	0.90536 ppb		100
20) Methyl t-butyl ether (MtBE	3.95	73	19872	0.94866 ppb	#	94
21) Trans-1,2-DCE	3.89	96	4119	0.89600 ppb		93
22) Diisopropyl Ether	4.73	59	2759	0.87189 ppb	#	86
23) 1,1-DCA	4.54	63	11336	0.91176 ppb		95
24) Vinyl Acetate	4.73	87	7521	0.98634 ppb		94
25) Ethyl tert Butyl Ether	5.24	59	21631	0.93744 ppb		93
26) MEK (2-Butanone)	5.42	43	4110	2.07470 ppb		89
27) Cis-1,2-DCE	5.35	96	7447	0.91894 ppb		98
28) 2,2-Dichloropropane	5.34	77	9113	0.88870 ppb		93
29) Chloroform	5.78	83	13996	0.94259 ppb		99
30) Bromochloromethane	5.64	128	3581	0.93677 ppb		75
32) 1,1,1-TCA	5.97	97	10575	0.97070 ppb		88
33) Cyclohexane	6.05	41	5652	1.01506 ppb	#	53
34) 1,1-Dichloropropene	6.18	75	6632	0.94434 ppb	#	90
35) 2,2,4-Trimethylpentane	6.56	57	20770	1.02487 ppb		91
37) Carbon Tetrachloride	6.18	117	8216	1.00952 ppb	#	76
38) Tert Amyl Methyl Ether	6.61	73	20523	0.94103 ppb		96
39) 1,2-DCA	6.44	62	9235	0.92489 ppb		98
40) Benzene	6.42	78	25536	0.95034 ppb		98
41) TCE	7.17	95	7632	1.00089 ppb		96
42) 2-Pentanone	7.39	43	225938	47.12573 ppb		99

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T06W.D Vial: 6
Acq On : 31 Jan 12 12:42 Operator:
Sample : 1.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	1,2-Dichloropropane	7.39	63	8941	0.99393 ppb		98
44)	Bromodichloromethane	7.69	83	10831	0.94189 ppb		99
45)	Methyl Cyclohexane	7.38	83	10300	0.99753 ppb		94
46)	Dibromomethane	7.51	93	4584	0.94655 ppb		88
48)	MIBK (methyl isobutyl ket	9.20	43	2364	0.96044 ppb		98
49)	1-Bromo-2-chloroethane	8.00	63	6442	0.96172 ppb		96
50)	Cis-1,3-Dichloropropene	8.17	75	10925	0.91300 ppb		99
51)	Toluene	8.51	91	32307	0.94643 ppb		96
52)	Trans-1,3-Dichloropropene	8.74	75	9707	0.94007 ppb		98
53)	1,1,2-TCA	8.92	83	6441	0.97419 ppb		91
54)	2-Hexanone	9.20	43	5149	2.27058 ppb	#	95
57)	1,2-EDB	9.41	107	6954	0.94847 ppb		88
58)	Tetrachloroethene	9.07	166	8480	0.97659 ppb		90
59)	1-Chlorohexane	9.92	91	11883	1.32891 ppb		89
60)	1,1,1,2-Tetrachloroethane	10.01	131	8182	0.88821 ppb		97
61)	m&p-Xylene	10.16	106	28402	1.75960 ppb		93
62)	o-Xylene	10.55	106	14855	0.91802 ppb		93
63)	Styrene	10.56	104	24712	0.89938 ppb	#	96
65)	1,3-Dichloropropane	9.08	76	11888	0.94403 ppb		91
66)	Dibromochloromethane	9.31	129	7760	0.89557 ppb		98
67)	Chlorobenzene	9.92	112	23972	0.91847 ppb		98
68)	Ethylbenzene	10.04	91	38530	0.90641 ppb		95
69)	Bromoform	10.73	173	4629	0.85213 ppb		94
71)	Isopropylbenzene	10.93	105	35174	0.94651 ppb		94
72)	1,1,2,2-Tetrachloroethane	11.21	83	8108	1.01371 ppb		88
73)	1,2,3-Trichloropropane	11.25	110	2362	0.94675 ppb		83
74)	t-1,4-Dichloro-2-Butene	11.27	53	1853	1.02131 ppb	#	74
75)	Bromobenzene	11.21	156	11505	1.02263 ppb		99
76)	n-Propylbenzene	11.33	91	44916	0.98270 ppb		98
77)	4-Ethyltoluene	11.45	105	25197	0.95444 ppb		98
78)	2-Chlorotoluene	11.41	91	28824	0.93989 ppb		98
79)	1,3,5-Trimethylbenzene	11.51	105	30947	0.94243 ppb		98
80)	4-Chlorotoluene	11.52	91	30269	0.96970 ppb		97
81)	Tert-Butylbenzene	11.84	119	29220	0.94553 ppb		97
82)	1,2,4-Trimethylbenzene	11.88	105	30569	0.93137 ppb		99
83)	Sec-Butylbenzene	12.05	105	39743	0.95421 ppb		98
84)	p-Isopropyltoluene	12.20	119	32911	0.93204 ppb		98
85)	Benzyl Chloride	12.37	91	7900	0.81746 ppb		89
86)	1,3-DCB	12.15	146	19578	0.95705 ppb		98
87)	1,4-DCB	12.24	146	19821	0.96104 ppb		96
88)	n-Butylbenzene	12.61	91	26923	0.89580 ppb		97
89)	1,2-DCB	12.61	146	18856	0.97870 ppb		97
90)	Hexachloroethane	12.87	117	5597	0.99124 ppb		96
91)	1,2-Dibromo-3-chloropropan	13.38	157	1010	0.97155 ppb	#	77
92)	1,2,4-Trichlorobenzene	14.21	180	6620	0.85748 ppb		95
93)	Hexachlorobutadiene	14.40	225	7027	0.97253 ppb		87
94)	Naphthalene	14.45	128	15889	0.81082 ppb		99
95)	1,2,3-Trichlorobenzene	14.70	180	8678	0.83568 ppb		96

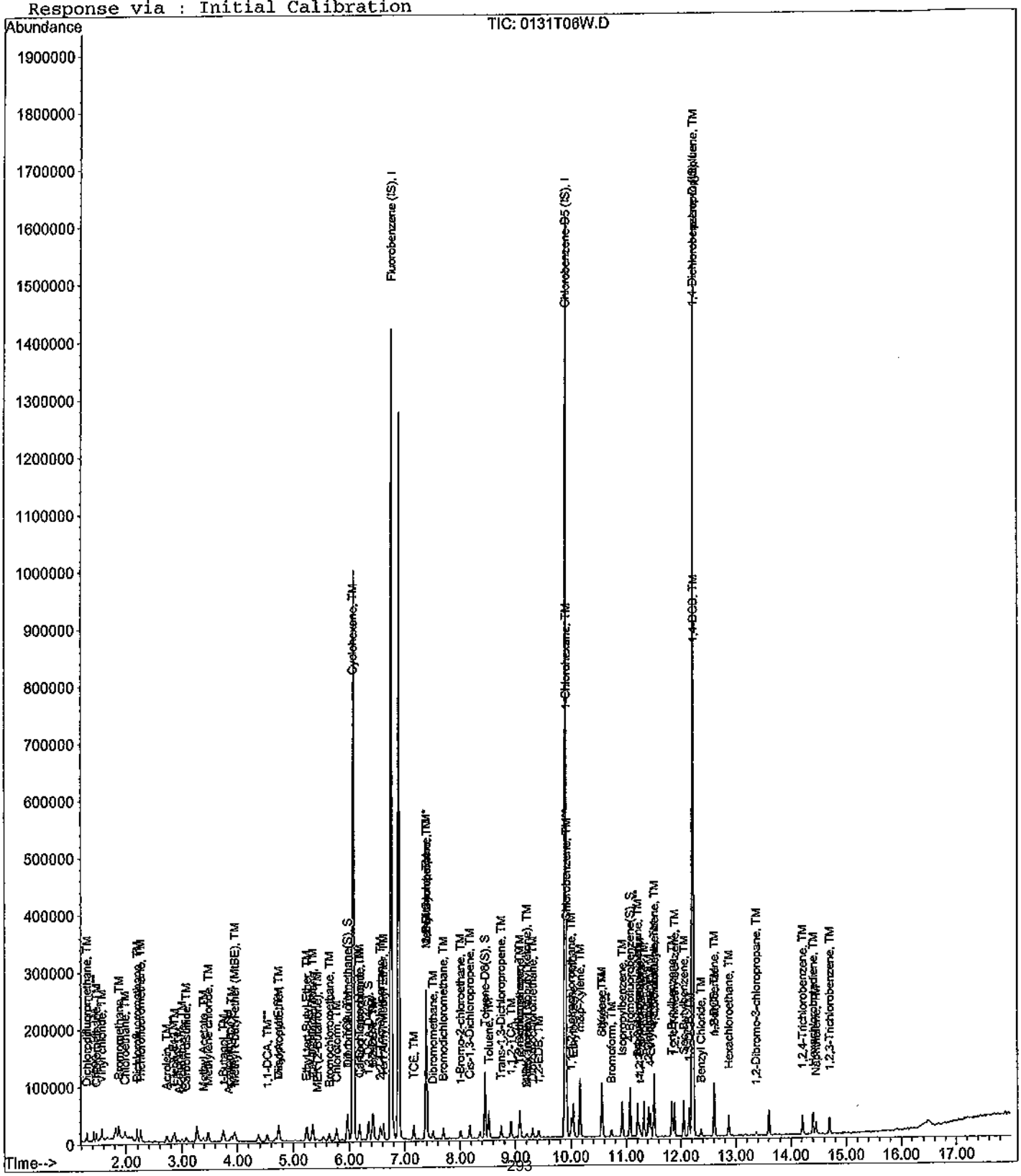
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T06W.D Vial: 6
Acq On : 31 Jan 12 12:42 Operator:
Sample : 1.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T07W.D Vial: 7
Acq On : 31 Jan 12 13:10 Operator:
Sample : 5.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	690944	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	553856	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	287424	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.97	111	91555	9.22593 ppb	0.00
Spiked Amount 32.661			Recovery	= 28.248%	
36) 1,2-DCA-D4(S)	6.35	65	99075	9.18859 ppb	0.00
Spiked Amount 30.896			Recovery	= 29.742%	
56) Toluene-D8(S)	8.45	98	334365	9.57548 ppb	0.00
Spiked Amount 33.937			Recovery	= 28.214%	
64) 4-Bromofluorobenzene(S)	11.06	95	124026	9.42572 ppb	0.00
Spiked Amount 33.154			Recovery	= 28.431%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.30	85	34172	4.45579 ppb	100
3) Freon 114	1.42	85	20545	4.71024 ppb	90
4) Chloromethane	1.46	50	52650	5.13823 ppb	100
5) Vinyl chloride	1.57	62	51267	4.96029 ppb	97
6) Bromomethane	1.87	94	30916	4.46808 ppb	100
7) Chloroethane	1.98	64	33651	5.32665 ppb	94
8) Dichlorofluoromethane	2.20	67	81610	4.92061 ppb	97
9) Trichlorofluoromethane	2.26	101	62047	4.76729 ppb	98
10) Acrolein	2.72	55	14199	93.68172 ppb	91
11) Acetone	2.93	43	10121	4.69030 ppb	90
12) Freon-113	2.87	101	31726	4.97785 ppb	98
13) 1,1-DCE	2.84	61	27833	4.76155 ppb	96
14) t-Butanol	3.74	59	18176	94.01084 ppb	94
15) Methyl Acetate	3.38	43	30409	5.39465 ppb	94
16) Iodomethane	3.00	142	40633	4.74128 ppb	96
17) Acrylonitrile	3.85	52	9788	5.31334 ppb	99
18) Methylene chloride	3.47	84	32998	5.25001 ppb	100
19) Carbon disulfide	3.08	76	51826	4.91239 ppb	99
20) Methyl t-butyl ether (MtBE	3.95	73	105358	5.02824 ppb	96
21) Trans-1,2-DCE	3.89	96	22327	4.85539 ppb	80
22) Diisopropyl Ether	4.74	59	15157	4.78851 ppb	100
23) 1,1-DCA	4.54	63	62361	5.01435 ppb	99
24) Vinyl Acetate	4.74	87	38157	5.00268 ppb	95
25) Ethyl tert Butyl Ether	5.24	59	115054	4.98479 ppb	99
26) MEK (2-Butanone)	5.41	43	14011	5.88553 ppb	90
27) Cis-1,2-DCE	5.35	96	41915	5.17076 ppb	97
28) 2,2-Dichloropropane	5.34	77	51515	5.02233 ppb	99
29) Chloroform	5.78	83	74161	4.99313 ppb	99
30) Bromochloromethane	5.65	128	19762	5.16820 ppb	100
32) 1,1,1-TCA	5.98	97	53917	4.94779 ppb	98
33) Cyclohexane	6.05	41	25379	4.55662 ppb	91
34) 1,1-Dichloropropene	6.19	75	35492	5.05235 ppb	97
35) 2,2,4-Trimethylpentane	6.57	57	99275	4.89723 ppb	96
37) Carbon Tetrachloride	6.18	117	40092	4.92481 ppb	96
38) Tert Amyl Methyl Ether	6.62	73	107330	4.91996 ppb	98
39) 1,2-DCA	6.44	62	50409	5.04707 ppb	93
40) Benzene	6.42	78	133407	4.96346 ppb	98
41) TCE	7.16	95	39835	5.22264 ppb	95
42) 2-Pentanone	7.39	43	459321	95.77771 ppb	98

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T07W.D Vial: 7
Acq On : 31 Jan 12 13:10 Operator:
Sample : 5.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	1,2-Dichloropropane	7.39	63	44884	4.98816 ppb		98
44)	Bromodichloromethane	7.69	83	56851	4.94254 ppb		100
45)	Methyl Cyclohexane	7.38	83	51011	4.93891 ppb		96
46)	Dibromomethane	7.51	93	24369	5.03054 ppb		98
48)	MIBK (methyl isobutyl ket	9.20	43	11230	4.56121 ppb	#	87
49)	1-Bromo-2-chloroethane	8.00	63	32240	4.81175 ppb		94
50)	Cis-1,3-Dichloropropene	8.17	75	59821	4.99785 ppb		97
51)	Toluene	8.51	91	168899	4.94648 ppb		99
52)	Trans-1,3-Dichloropropene	8.74	75	50533	4.89248 ppb		98
53)	1,1,2-TCA	8.92	83	33532	5.07027 ppb		93
54)	2-Hexanone	9.20	43	20021	5.70009 ppb		88
57)	1,2-EDB	9.41	107	35976	4.95220 ppb		97
58)	Tetrachloroethene	9.07	166	44220	5.13964 ppb		96
59)	1-Chlorohexane	9.92	91	55934	5.03676 ppb		99
60)	1,1,1,2-Tetrachloroethane	10.01	131	45664	5.00295 ppb		97
61)	m&p-Xylene	10.16	106	156386	9.77823 ppb		98
62)	o-Xylene	10.55	106	81046	5.05484 ppb		98
63)	Styrene	10.56	104	131624	4.83468 ppb		93
65)	1,3-Dichloropropane	9.08	76	64118	5.13873 ppb		95
66)	Dibromochloromethane	9.31	129	41121	4.78959 ppb		99
67)	Chlorobenzene	9.92	112	129754	5.01738 ppb		98
68)	Ethylbenzene	10.04	91	207634	4.92968 ppb		97
69)	Bromoform	10.73	173	26579	4.93802 ppb		87
71)	Isopropylbenzene	10.93	105	201870	5.14550 ppb		98
72)	1,1,2,2-Tetrachloroethane	11.21	83	44183	5.23249 ppb		98
73)	1,2,3-Trichloropropane	11.24	110	14141	5.36895 ppb		98
74)	t-1,4-Dichloro-2-Butene	11.26	53	9466	4.94202 ppb		84
75)	Bromobenzene	11.21	156	60253	5.07302 ppb		100
76)	n-Propylbenzene	11.33	91	244824	5.07375 ppb		99
77)	4-Ethyltoluene	11.45	105	142613	5.11697 ppb		99
78)	2-Chlorotoluene	11.41	91	165882	5.12359 ppb		95
79)	1,3,5-Trimethylbenzene	11.51	105	175201	5.05385 ppb		98
80)	4-Chlorotoluene	11.52	91	172710	5.24095 ppb		98
81)	Tert-Butylbenzene	11.84	119	163714	5.01807 ppb		97
82)	1,2,4-Trimethylbenzene	11.88	105	177467	5.12171 ppb		98
83)	Sec-Butylbenzene	12.05	105	222863	5.06843 ppb		99
84)	p-Isopropyltoluene	12.20	119	184801	4.95738 ppb		99
85)	Benzyl Chloride	12.37	91	47472	4.65300 ppb		98
86)	1,3-DCB	12.15	146	110258	5.10544 ppb		95
87)	1,4-DCB	12.24	146	111493	5.12058 ppb		100
88)	n-Butylbenzene	12.61	91	158614	4.99902 ppb		99
89)	1,2-DCB	12.61	146	107364	5.27852 ppb		96
90)	Hexachloroethane	12.87	117	30335	5.08889 ppb		97
91)	1,2-Dibromo-3-chloropropan	13.38	157	4979	4.53672 ppb		91
92)	1,2,4-Trichlorobenzene	14.21	180	39616	4.86061 ppb		99
93)	Hexachlorobutadiene	14.40	225	38319	5.02342 ppb		96
94)	Naphthalene	14.45	128	95642	4.62306 ppb		99
95)	1,2,3-Trichlorobenzene	14.70	180	53515	4.88146 ppb		95

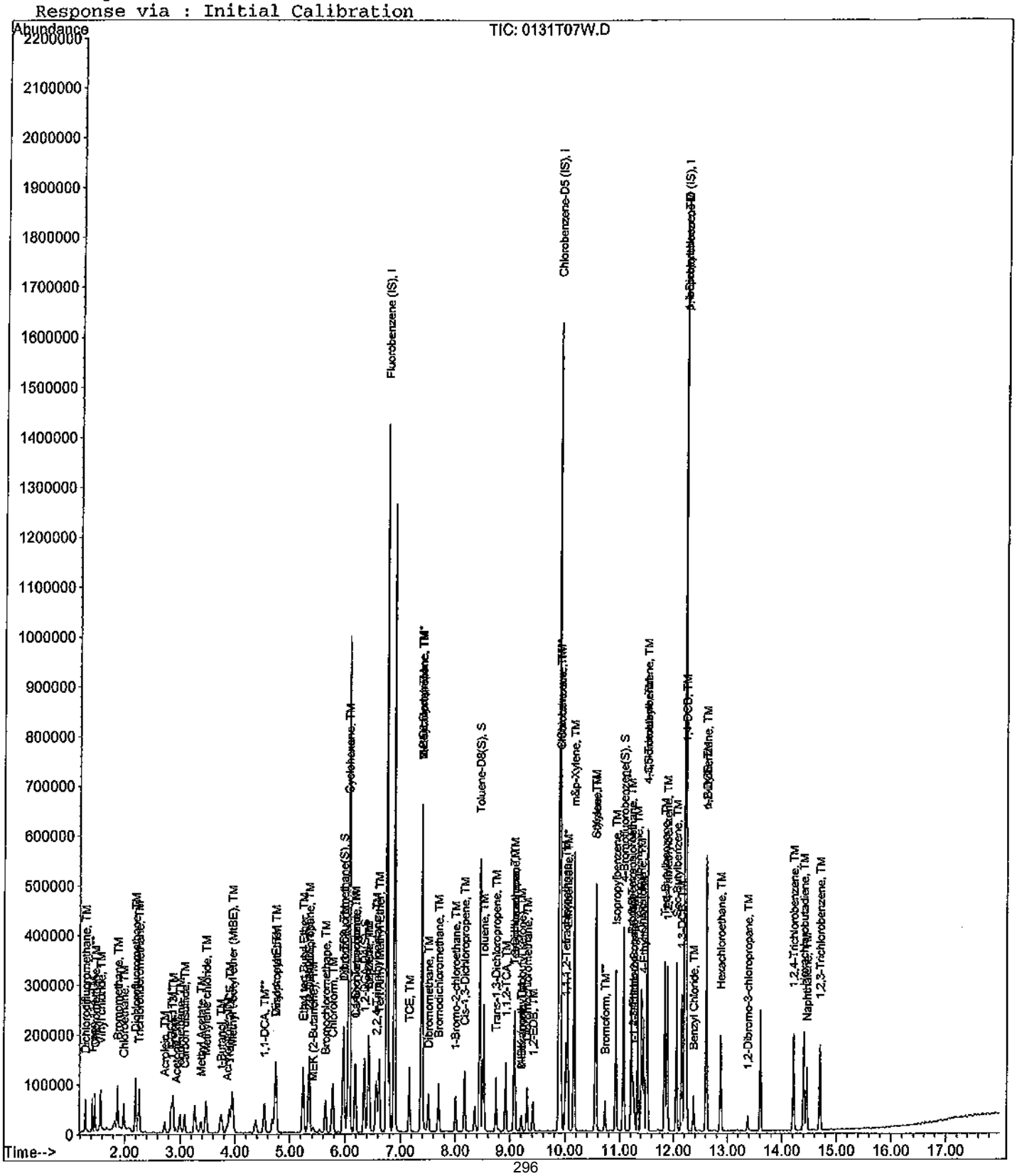
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T07W.D Vial: 7
Acq On : 31 Jan 12 13:10 Operator:
Sample : 5.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T08W.D Vial: 8
Acq On : 31 Jan 12 13:37 Operator:
Sample : 10ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	702464	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	558464	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	303936	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.97	111	234972	23.28965 ppb	0.00
Spiked Amount 32.661			Recovery =	71.308%	
36) 1,2-DCA-D4(S)	6.35	65	260929	23.80268 ppb	0.00
Spiked Amount 30.896			Recovery =	77.044%	
56) Toluene-D8(S)	8.45	98	865467	24.58056 ppb	0.00
Spiked Amount 33.937			Recovery =	72.431%	
64) 4-Bromofluorobenzene(S)	11.06	95	322262	24.28917 ppb	0.00
Spiked Amount 33.154			Recovery =	73.262%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.30	85	80498	10.32425 ppb	100
3) Freon 114	1.42	85	43171	9.73527 ppb	100
4) Chloromethane	1.47	50	101298	9.72377 ppb	100
5) Vinyl chloride	1.57	62	105243	10.01570 ppb	100
6) Bromomethane	1.87	94	57336	8.15050 ppb	100
7) Chloroethane	1.98	64	68255	10.34902 ppb	100
8) Dichlorofluoromethane	2.20	67	162909	9.66139 ppb	100
9) Trichlorofluoromethane	2.26	101	137505	10.39173 ppb	100
10) Acrolein	2.72	55	19210	124.66463 ppb	100
11) Acetone	2.93	43	18835	9.98287 ppb	100
12) Freon-113	2.87	101	65798	10.15449 ppb	100
13) 1,1-DCE	2.84	61	58140	9.78322 ppb	100
14) t-Butanol	3.75	59	23976	121.97621 ppb	100
15) Methyl Acetate	3.38	43	58544	10.49499 ppb	100
16) Iodomethane	3.00	142	96537	9.42339 ppb	100
17) Acrylonitrile	3.85	52	19888	10.61900 ppb	100
18) Methylene chloride	3.47	84	62980	10.02430 ppb	100
19) Carbon disulfide	3.08	76	106726	9.95025 ppb	100
20) Methyl t-butyl ether (MtBE	3.95	73	205683	9.65529 ppb	100
21) Trans-1,2-DCE	3.90	96	46421	9.92950 ppb	100
22) Diisopropyl Ether	4.74	59	31765	9.87086 ppb	100
23) 1,1-DCA	4.54	63	123216	9.74513 ppb	100
24) Vinyl Acetate	4.74	87	75318	9.71284 ppb	100
25) Ethyl tert Butyl Ether	5.24	59	230143	9.80758 ppb	100
26) MEK (2-Butanone)	5.41	43	24284	9.68670 ppb	100
27) Cis-1,2-DCE	5.35	96	79998	9.70695 ppb	100
28) 2,2-Dichloropropane	5.34	77	102372	9.81683 ppb	100
29) Chloroform	5.78	83	144800	9.58925 ppb	100
30) Bromochloromethane	5.65	128	37806	9.72497 ppb	100
32) 1,1,1-TCA	5.98	97	105504	9.52298 ppb	100
33) Cyclohexane	6.05	41	52032	9.18878 ppb	100
34) 1,1-Dichloropropene	6.19	75	70563	9.88004 ppb	100
35) 2,2,4-Trimethylpentane	6.57	57	205674	9.97950 ppb	100
37) Carbon Tetrachloride	6.19	117	79969	9.66212 ppb	100
38) Tert Amyl Methyl Ether	6.61	73	213618	9.63157 ppb	100
39) 1,2-DCA	6.44	62	102539	10.09810 ppb	100
40) Benzene	6.42	78	266514	9.75315 ppb	100
41) TCE	7.16	95	76531	9.86919 ppb	100
42) 2-Pentanone	7.39	43	609322	124.97231 ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T08W.D Vial: 8
Acq On : 31 Jan 12 13:37 Operator:
Sample : 10ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 1,2-Dichloropropane	7.39	63	91780	10.03265 ppb	100
44) Bromodichloromethane	7.69	83	111774	9.55811 ppb	100
45) Methyl Cyclohexane	7.38	83	104727	9.97343 ppb	100
46) Dibromomethane	7.51	93	48068	9.76003 ppb	100
48) MIBK (methyl isobutyl ket	9.20	43	23089	9.22411 ppb	100
49) 1-Bromo-2-chloroethane	8.01	63	66120	9.70642 ppb	100
50) Cis-1,3-Dichloropropene	8.17	75	120006	9.86169 ppb	100
51) Toluene	8.51	91	339852	9.78988 ppb	100
52) Trans-1,3-Dichloropropene	8.74	75	105038	10.00275 ppb	100
53) 1,1,2-TCA	8.92	83	66286	9.85853 ppb	100
54) 2-Hexanone	9.20	43	38344	9.78079 ppb	100
57) 1,2-EDB	9.41	107	72030	9.83332 ppb	100
58) Tetrachloroethene	9.07	166	86621	9.98479 ppb	100
59) 1-Chlorohexane	9.92	91	112028	9.66903 ppb	100
60) 1,1,1,2-Tetrachloroethane	10.00	131	90252	9.80642 ppb	100
61) m&p-Xylene	10.16	106	318800	19.76890 ppb	100
62) o-Xylene	10.55	106	161101	9.96496 ppb	100
63) Styrene	10.57	104	274738	10.00814 ppb	100
65) 1,3-Dichloropropane	9.08	76	126766	10.07581 ppb	100
66) Dibromochloromethane	9.31	129	85458	9.87163 ppb	100
67) Chlorobenzene	9.92	112	254179	9.74760 ppb	100
68) Ethylbenzene	10.04	91	417163	9.82262 ppb	100
69) Bromoform	10.73	173	55211	10.17283 ppb	100
71) Isopropylbenzene	10.93	105	407051	9.81172 ppb	100
72) 1,1,2,2-Tetrachloroethane	11.21	83	90586	10.14507 ppb	100
73) 1,2,3-Trichloropropane	11.24	110	27696	9.94413 ppb	100
74) t-1,4-Dichloro-2-Butene	11.26	53	18866	9.31448 ppb	100
75) Bromobenzene	11.21	156	119830	9.54101 ppb	100
76) n-Propylbenzene	11.33	91	505368	9.90429 ppb	100
77) 4-Ethyltoluene	11.45	105	294314	9.98633 ppb	100
78) 2-Chlorotoluene	11.41	91	342296	9.99811 ppb	100
79) 1,3,5-Trimethylbenzene	11.51	105	367355	10.02103 ppb	100
80) 4-Chlorotoluene	11.52	91	350395	10.05521 ppb	100
81) Tert-Butylbenzene	11.84	119	322083	9.33596 ppb	100
82) 1,2,4-Trimethylbenzene	11.88	105	362201	9.88526 ppb	100
83) Sec-Butylbenzene	12.05	105	470262	10.11385 ppb	100
84) p-Isopropyltoluene	12.20	119	390720	9.91185 ppb	100
85) Benzyl Chloride	12.37	91	106182	9.84210 ppb	100
86) 1,3-DCB	12.15	146	226167	9.90359 ppb	100
87) 1,4-DCB	12.24	146	224511	9.75103 ppb	100
88) n-Butylbenzene	12.61	91	338958	10.10254 ppb	100
89) 1,2-DCB	12.61	146	211730	9.84411 ppb	100
90) Hexachloroethane	12.87	117	61845	9.81126 ppb	100
91) 1,2-Dibromo-3-chloropropan	13.37	157	9831	8.47107 ppb	100
92) 1,2,4-Trichlorobenzene	14.21	180	82440	9.56531 ppb	100
93) Hexachlorobutadiene	14.40	225	77099	9.55818 ppb	100
94) Naphthalene	14.45	128	212170	9.69852 ppb	100
95) 1,2,3-Trichlorobenzene	14.70	180	115943	10.00137 ppb	100

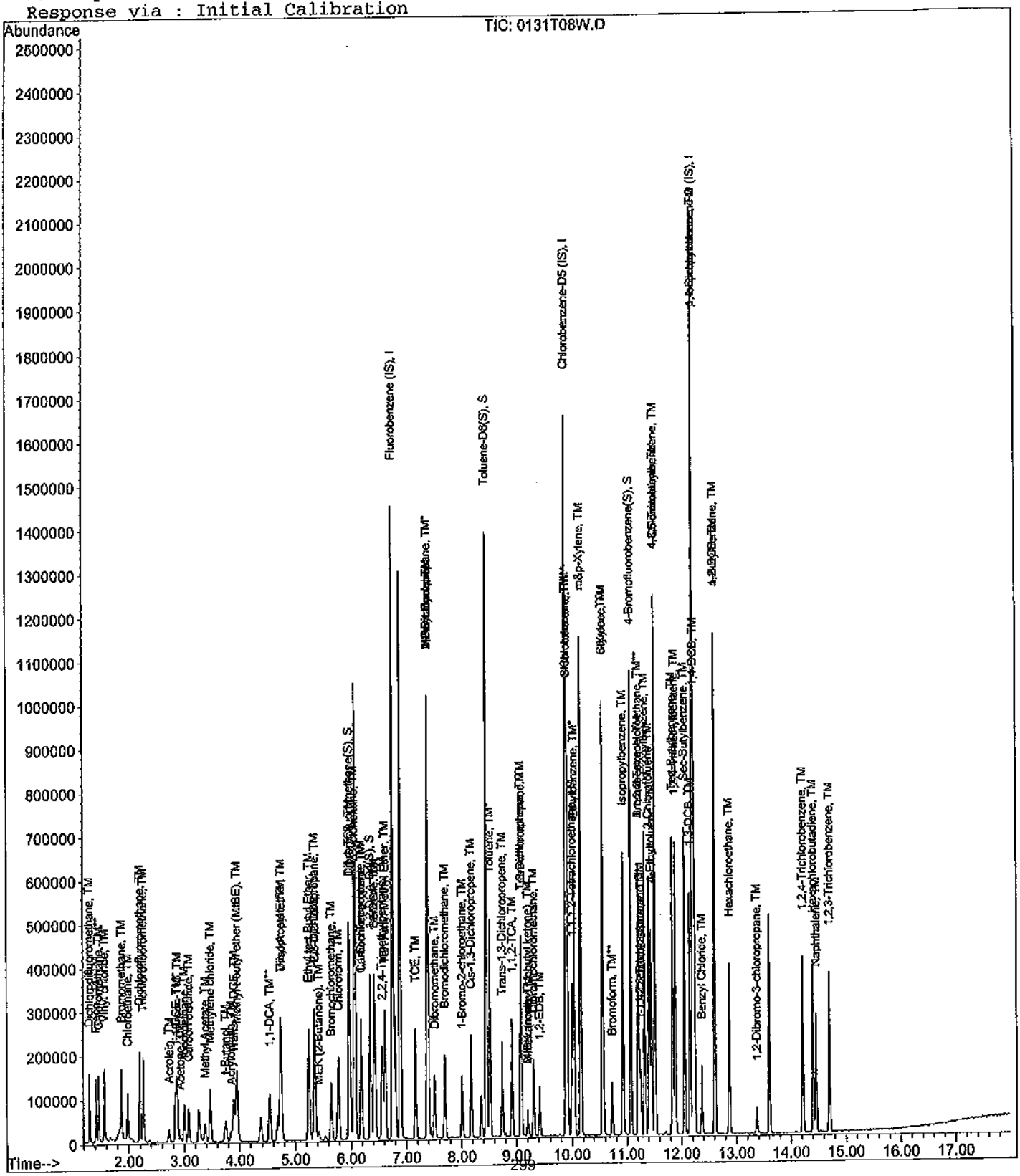
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T08W.D Vial: 8
Acq On : 31 Jan 12 13:37 Operator:
Sample : 10ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T09W.D Vial: 9
Acq On : 31 Jan 12 14:05 Operator:
Sample : 20ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	723968	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	585472	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	328256	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	363824	34.98992 ppb	0.00
Spiked Amount 32.661			Recovery = 107.131%		
36) 1,2-DCA-D4(S)	6.35	65	388724	34.40722 ppb	0.00
Spiked Amount 30.896			Recovery = 111.366%		
56) Toluene-D8(S)	8.45	98	1366328	37.01564 ppb	0.00
Spiked Amount 33.937			Recovery = 109.073%		
64) 4-Bromofluorobenzene(S)	11.06	95	513810	36.93985 ppb	0.00
Spiked Amount 33.154			Recovery = 111.420%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.30	85	168866	21.01455 ppb	99
3) Freon 114	1.42	85	98396	21.52970 ppb	100
4) Chloromethane	1.46	50	197601	18.40465 ppb	99
5) Vinyl chloride	1.57	62	205612	18.98634 ppb	99
6) Bromomethane	1.87	94	121977	16.82440 ppb	99
7) Chloroethane	1.98	64	131466	19.09849 ppb	96
8) Dichlorofluoromethane	2.19	67	331793	19.09266 ppb	99
9) Trichlorofluoromethane	2.25	101	270078	19.80448 ppb	100
10) Acrolein	2.72	55	25382	159.82563 ppb	76
11) Acetone	2.92	43	36198	20.07086 ppb	89
12) Freon-113	2.87	101	140413	21.02603 ppb	98
13) 1,1-DCE	2.83	61	123129	20.10352 ppb	98
14) t-Butanol	3.75	59	29152	143.90353 ppb	96
15) Methyl Acetate	3.37	43	107117	18.87457 ppb	91
16) Iodomethane	2.99	142	216832	19.07597 ppb	97
17) Acrylonitrile	3.84	52	39711	20.57349 ppb	93
18) Methylene chloride	3.47	84	126678	19.74670 ppb	100
19) Carbon disulfide	3.07	76	223175	20.18895 ppb	100
20) Methyl t-butyl ether (MtBE	3.95	73	423395	19.28490 ppb	97
21) Trans-1,2-DCE	3.89	96	94154	19.54142 ppb	96
22) Diisopropyl Ether	4.73	59	64383	19.41252 ppb	97
23) 1,1-DCA	4.53	63	250125	19.19474 ppb	99
24) Vinyl Acetate	4.74	87	156878	19.62972 ppb	97
25) Ethyl tert Butyl Ether	5.24	59	465967	19.26744 ppb	98
26) MEK (2-Butanone)	5.41	43	48984	18.48787 ppb	99
27) Cis-1,2-DCE	5.35	96	160976	18.95263 ppb	96
28) 2,2-Dichloropropane	5.34	77	206685	19.23109 ppb	97
29) Chloroform	5.78	83	294758	18.94028 ppb	100
30) Bromochloromethane	5.64	128	76221	19.02422 ppb	96
32) 1,1,1-TCA	5.98	97	227160	19.89485 ppb	99
33) Cyclohexane	6.05	41	108512	18.59386 ppb	97
34) 1,1-Dichloropropene	6.19	75	146535	19.90800 ppb	99
35) 2,2,4-Trimethylpentane	6.56	57	436405	20.54584 ppb	99
37) Carbon Tetrachloride	6.18	117	173615	20.35366 ppb	96
38) Tert Amyl Methyl Ether	6.61	73	438091	19.16585 ppb	99
39) 1,2-DCA	6.44	62	203094	19.40672 ppb	97
40) Benzene	6.42	78	537333	19.07977 ppb	99
41) TCE	7.16	95	154834	19.37382 ppb	98
42) 2-Pentanone	7.39	43	731254	145.52576 ppb	98

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T09W.D Vial: 9
Acq On : 31 Jan 12 14:05 Operator:
Sample : 20ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	1,2-Dichloropropane	7.39	63	178412	18.92328	ppb	98
44)	Bromodichloromethane	7.69	83	232470	19.28869	ppb	99
45)	Methyl Cyclohexane	7.37	83	223077	20.61320	ppb	97
46)	Dibromomethane	7.51	93	94471	18.61223	ppb	99
48)	MIBK (methyl isobutyl ket	9.20	43	46675	18.09290	ppb	92
49)	1-Bromo-2-chloroethane	8.00	63	133824	19.06185	ppb	99
50)	Cis-1,3-Dichloropropene	8.17	75	245997	19.61475	ppb	98
51)	Toluene	8.51	91	689835	19.28136	ppb	99
52)	Trans-1,3-Dichloropropene	8.74	75	217622	20.10854	ppb	98
53)	1,1,2-TCA	8.92	83	135278	19.52190	ppb	98
54)	2-Hexanone	9.20	43	75943	17.79813	ppb	93
57)	1,2-EDB	9.41	107	146992	19.14121	ppb	100
58)	Tetrachloroethene	9.07	166	176756	19.43476	ppb	99
59)	1-Chlorohexane	9.92	91	241347	19.51051	ppb	100
60)	1,1,1,2-Tetrachloroethane	10.01	131	190094	19.70204	ppb	97
61)	m&p-Xylene	10.16	106	673243	39.82219	ppb	99
62)	o-Xylene	10.55	106	338937	19.99794	ppb	99
63)	Styrene	10.56	104	585526	20.34557	ppb	94
65)	1,3-Dichloropropane	9.08	76	255704	19.38669	ppb	96
66)	Dibromochloromethane	9.31	129	177865	19.59818	ppb	99
67)	Chlorobenzene	9.92	112	526484	19.25894	ppb	99
68)	Ethylbenzene	10.04	91	876095	19.67714	ppb	99
69)	Bromoform	10.73	173	115017	20.21469	ppb	95
71)	Isopropylbenzene	10.93	105	854709	19.07586	ppb	100
72)	1,1,2,2-Tetrachloroethane	11.21	83	188444	19.54096	ppb	95
73)	1,2,3-Trichloropropane	11.24	110	56738	18.86224	ppb	95
74)	t-1,4-Dichloro-2-Butene	11.26	53	39745	18.16899	ppb	98
75)	Bromobenzene	11.21	156	247689	18.26017	ppb	99
76)	n-Propylbenzene	11.33	91	1081033	19.61662	ppb	99
77)	4-Ethyltoluene	11.45	105	635479	19.96483	ppb	98
78)	2-Chlorotoluene	11.41	91	720101	19.47507	ppb	98
79)	1,3,5-Trimethylbenzene	11.51	105	780550	19.71499	ppb	98
80)	4-Chlorotoluene	11.52	91	743251	19.74868	ppb	98
81)	Tert-Butylbenzene	11.84	119	695207	18.65843	ppb	99
82)	1,2,4-Trimethylbenzene	11.88	105	786409	19.87268	ppb	97
83)	Sec-Butylbenzene	12.05	105	996067	19.83510	ppb	100
84)	p-Isopropyltoluene	12.20	119	839992	19.73029	ppb	99
85)	Benzyl Chloride	12.37	91	236962	20.33691	ppb	99
86)	1,3-DCB	12.15	146	470189	19.06362	ppb	97
87)	1,4-DCB	12.24	146	472581	19.00459	ppb	99
88)	n-Butylbenzene	12.61	91	741825	20.47177	ppb	99
89)	1,2-DCB	12.61	146	440609	18.96780	ppb	97
90)	Hexachloroethane	12.87	117	126986	18.65286	ppb	96
91)	1,2-Dibromo-3-chloropropan	13.37	157	21848	17.43098	ppb	96
92)	1,2,4-Trichlorobenzene	14.21	180	179456	19.27918	ppb	98
93)	Hexachlorobutadiene	14.40	225	162188	18.61721	ppb	97
94)	Naphthalene	14.45	128	484573	20.50927	ppb	99
95)	1,2,3-Trichlorobenzene	14.70	180	252279	20.14955	ppb	99

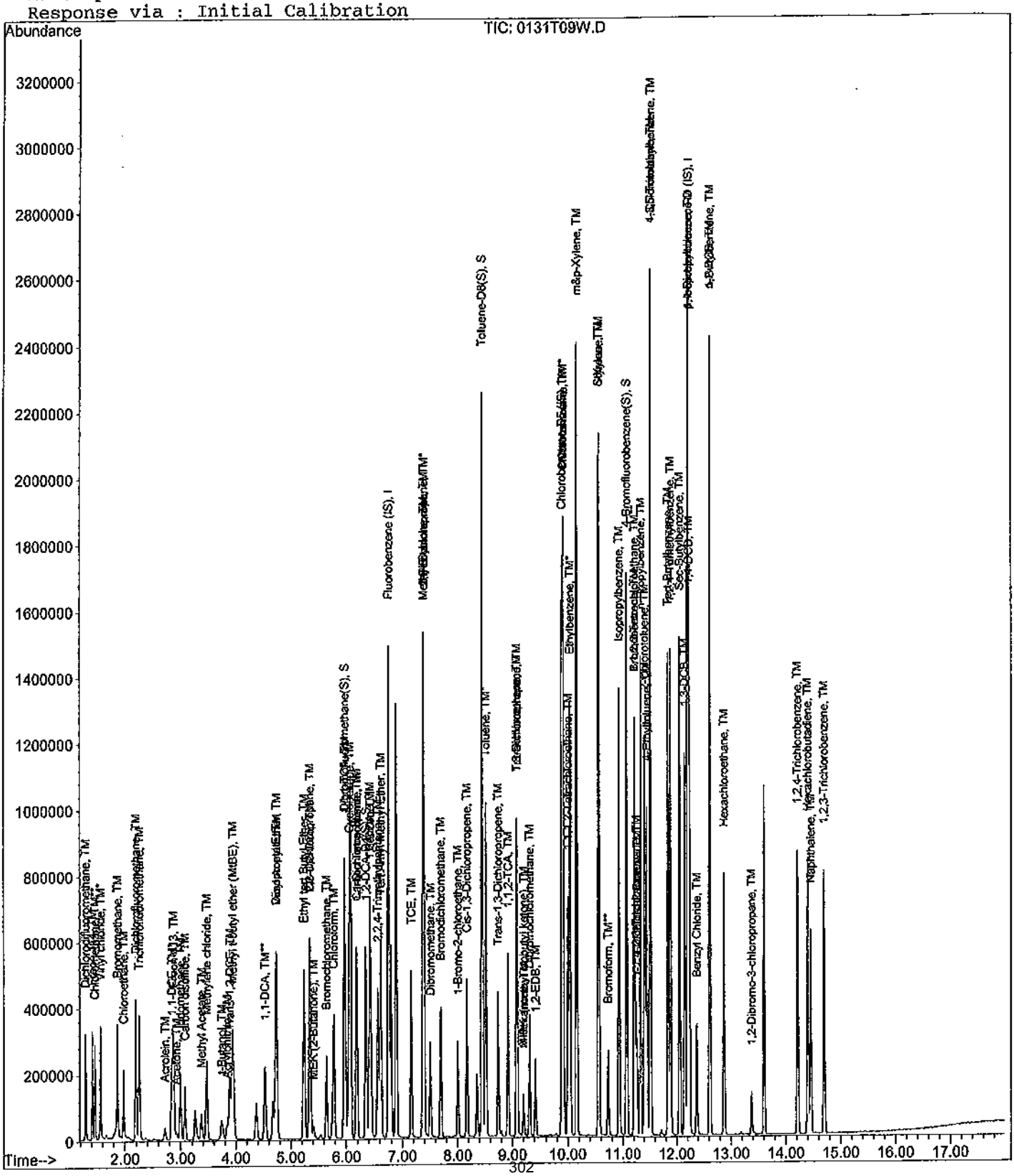
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T09W.D Vial: 9
Acq On : 31 Jan 12 14:05 Operator:
Sample : 20ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T10W.D Vial: 10
Acq On : 31 Jan 12 14:32 Operator:
Sample : 40ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	731648	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	596288	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	348480	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	772321	73.49649 ppb	0.00
Spiked Amount 32.661			Recovery = 225.026%		
36) 1,2-DCA-D4(S)	6.35	65	822772	72.06178 ppb	0.00
Spiked Amount 30.896			Recovery = 233.244%		
56) Toluene-D8(S)	8.45	98	2850702	75.82845 ppb	0.00
Spiked Amount 33.937			Recovery = 223.438%		
64) 4-Bromofluorobenzene(S)	11.06	95	1091603	77.05617 ppb	0.00
Spiked Amount 33.154			Recovery = 232.420%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.29	85	366232	45.09739 ppb	99
3) Freon 114	1.41	85	196474	42.53857 ppb	98
4) Chloromethane	1.46	50	414855	38.23418 ppb	98
5) Vinyl chloride	1.56	62	432186	39.48940 ppb	99
6) Bromomethane	1.86	94	307876	42.01986 ppb	98
7) Chloroethane	1.96	64	274886	39.21580 ppb	95
8) Dichlorofluoromethane	2.19	67	665874	37.91477 ppb	98
9) Trichlorofluoromethane	2.24	101	559660	40.60838 ppb	96
10) Acrolein	2.71	55	33967	211.63864 ppb	87
11) Acetone	2.92	43	71700	40.95388 ppb	91
12) Freon-113	2.86	101	281016	41.63880 ppb	99
13) 1,1-DCE	2.83	61	238448	38.52322 ppb	99
14) t-Butanol	3.75	59	37568	183.50097 ppb	98
15) Methyl Acetate	3.37	43	218942	38.49348 ppb	92
16) Iodomethane	2.99	142	452363	38.06058 ppb	99
17) Acrylonitrile	3.83	52	78122	40.04863 ppb	88
18) Methylene chloride	3.46	84	250857	38.87761 ppb	97
19) Carbon disulfide	3.06	76	453394	40.58460 ppb	99
20) Methyl t-butyl ether (MtBE	3.94	73	858890	38.71028 ppb	97
21) Trans-1,2-DCE	3.88	96	187302	38.46600 ppb	96
22) Diisopropyl Ether	4.73	59	128954	38.47359 ppb	96
23) 1,1-DCA	4.53	63	505516	38.38638 ppb	99
24) Vinyl Acetate	4.73	87	316007	39.12605 ppb	99
25) Ethyl tert Butyl Ether	5.23	59	961289	39.33146 ppb	99
26) MEK (2-Butanone)	5.41	43	100854	37.15490 ppb	99
27) Cis-1,2-DCE	5.34	96	327168	38.11503 ppb	96
28) 2,2-Dichloropropane	5.34	77	412923	38.01729 ppb	99
29) Chloroform	5.77	83	592812	37.69250 ppb	100
30) Bromochloromethane	5.64	128	153434	37.89405 ppb	98
32) 1,1,1-TCA	5.98	97	453500	39.30097 ppb	97
33) Cyclohexane	6.05	41	221548	37.56443 ppb	97
34) 1,1-Dichloropropene	6.18	75	302292	40.63780 ppb	99
35) 2,2,4-Trimethylpentane	6.56	57	904365	42.13036 ppb	100
37) Carbon Tetrachloride	6.18	117	357309	41.44923 ppb	99
38) Tert Amyl Methyl Ether	6.61	73	902161	39.05396 ppb	97
39) 1,2-DCA	6.43	62	400563	37.87417 ppb	100
40) Benzene	6.41	78	1080773	37.97356 ppb	98
41) TCE	7.16	95	308576	38.20571 ppb	98
42) 2-Pentanone	7.39	43	908474	178.89628 ppb	98

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T10W.D Vial: 10
Acq On : 31 Jan 12 14:32 Operator:
Sample : 40ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	1,2-Dichloropropane	7.39	63	359061	37.68406 ppb	98
44)	Bromodichloromethane	7.69	83	478560	39.29066 ppb	99
45)	Methyl Cyclohexane	7.37	83	452933	41.41348 ppb	99
46)	Dibromomethane	7.51	93	192180	37.46496 ppb	99
48)	MIBK (methyl isobutyl ket	9.20	43	99747	38.25965 ppb	92
49)	1-Bromo-2-chloroethane	8.00	63	265600	37.43487 ppb	99
50)	Cis-1,3-Dichloropropene	8.17	75	504742	39.82352 ppb	99
51)	Toluene	8.51	91	1399788	38.71434 ppb	99
52)	Trans-1,3-Dichloropropene	8.74	75	455647	41.66039 ppb	99
53)	1,1,2-TCA	8.92	83	275567	39.34951 ppb	99
54)	2-Hexanone	9.20	43	159010	35.71415 ppb	93
57)	1,2-EDB	9.41	107	304014	38.87044 ppb	99
58)	Tetrachloroethene	9.07	166	359421	38.80239 ppb	99
59)	1-Chlorohexane	9.92	91	495431	38.97862 ppb	100
60)	1,1,1,2-Tetrachloroethane	10.00	131	394365	40.13203 ppb	100
61)	m&p-Xylene	10.16	106	1392390	80.86567 ppb	99
62)	o-Xylene	10.55	106	699355	40.51484 ppb	100
63)	Styrene	10.56	104	1239060	42.27330 ppb	96
65)	1,3-Dichloropropane	9.08	76	524547	39.04817 ppb	97
66)	Dibromochloromethane	9.31	129	378765	40.97746 ppb	99
67)	Chlorobenzene	9.92	112	1076012	38.64687 ppb	99
68)	Ethylbenzene	10.04	91	1789567	39.46470 ppb	99
69)	Bromoform	10.73	173	247405	42.69368 ppb	98
71)	Isopropylbenzene	10.93	105	1781100	37.44459 ppb	98
72)	1,1,2,2-Tetrachloroethane	11.21	83	394371	38.52151 ppb	95
73)	1,2,3-Trichloropropane	11.24	110	115853	36.27951 ppb	97
74)	t-1,4-Dichloro-2-Butene	11.26	53	86656	37.31486 ppb	99
75)	Bromobenzene	11.21	156	513777	35.67859 ppb	98
76)	n-Propylbenzene	11.33	91	2245373	38.38031 ppb	100
77)	4-Ethyltoluene	11.45	105	1325634	39.23041 ppb	98
78)	2-Chlorotoluene	11.41	91	1488915	37.93064 ppb	98
79)	1,3,5-Trimethylbenzene	11.51	105	1633178	38.85655 ppb	98
80)	4-Chlorotoluene	11.52	91	1543071	38.62098 ppb	100
81)	Tert-Butylbenzene	11.84	119	1447996	36.60691 ppb	99
82)	1,2,4-Trimethylbenzene	11.88	105	1648310	39.23573 ppb	98
83)	Sec-Butylbenzene	12.05	105	2086184	39.13212 ppb	99
84)	p-Isopropyltoluene	12.20	119	1784838	39.49044 ppb	99
85)	Benzyl Chloride	12.37	91	542018	43.81822 ppb	99
86)	1,3-DCB	12.15	146	982941	37.54009 ppb	97
87)	1,4-DCB	12.24	146	992315	37.58950 ppb	99
88)	n-Butylbenzene	12.61	91	1587176	41.25854 ppb	98
89)	1,2-DCB	12.61	146	924204	37.47713 ppb	99
90)	Hexachloroethane	12.87	117	281964	39.01379 ppb	98
91)	1,2-Dibromo-3-chloropropan	13.37	157	48888	36.74069 ppb	98
92)	1,2,4-Trichlorobenzene	14.21	180	401664	40.64697 ppb	99
93)	Hexachlorobutadiene	14.40	225	341517	36.92692 ppb	98
94)	Naphthalene	14.45	128	1131959	45.12908 ppb	99
95)	1,2,3-Trichlorobenzene	14.69	180	580567	43.67888 ppb	97

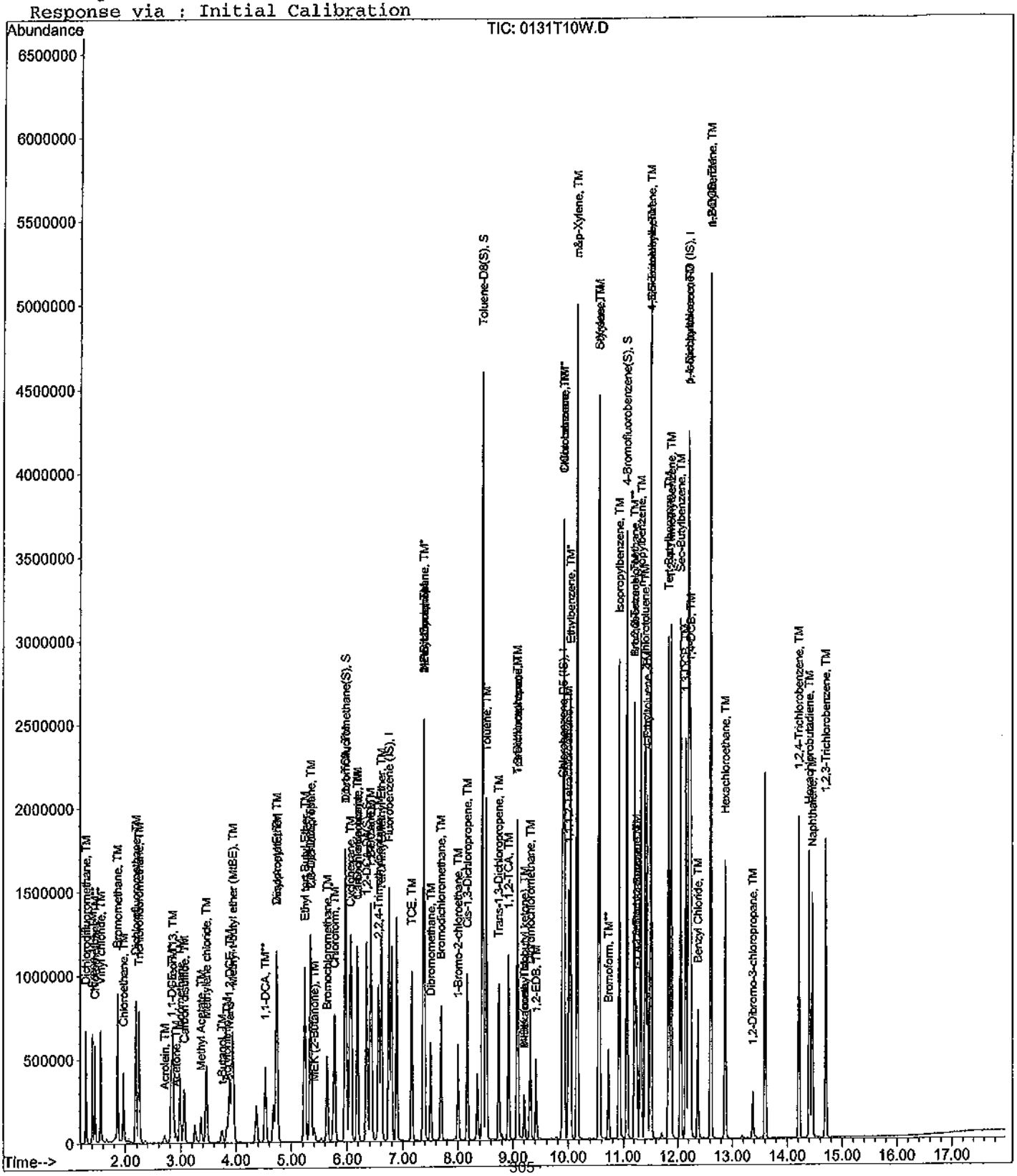
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T10W.D Vial: 10
Acq On : 31 Jan 12 14:32 Operator:
Sample : 40ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T11W.D Vial: 11
Acq On : 31 Jan 12 15:00 Operator:
Sample : 100ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.75	96	709248	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	9.89	117	610560	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	366848	25.00000 ppb		0.00
System Monitoring Compounds						
31) Dibromofluoromethane(S)	5.97	111	1056189	103.68465 ppb		0.00
Spiked Amount 32.661			Recovery = 317.457%			
36) 1,2-DCA-D4(S)	6.35	65	1065830	96.29805 ppb		0.00
Spiked Amount 30.896			Recovery = 311.689%			
56) Toluene-D8(S)	8.45	98	3893668	101.15026 ppb		0.00
Spiked Amount 33.937			Recovery = 298.053%			
64) 4-Bromofluorobenzene(S)	11.06	95	1551620	106.96847 ppb		0.00
Spiked Amount 33.154			Recovery = 322.642%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.30	85	892855	113.41752 ppb		100
3) Freon 114	1.42	85	501654	112.04336 ppb		96
4) Chloromethane	1.46	50	1061858	100.95458 ppb		99
5) Vinyl chloride	1.57	62	1077997	101.60884 ppb		100
6) Bromomethane	1.87	94	748901	105.44044 ppb		98
7) Chloroethane	1.97	64	685463	100.43882 ppb		95
8) Dichlorofluoromethane	2.19	67	1706522	100.23799 ppb		100
9) Trichlorofluoromethane	2.25	101	1413464	105.79867 ppb		99
10) Acrolein	2.72	55	54592	350.88988 ppb	#	58
11) Acetone	2.93	43	184939	111.76507 ppb		92
12) Freon-113	2.86	101	711043	108.68437 ppb		98
13) 1,1-DCE	2.83	61	612938	102.15262 ppb		100
14) t-Butanol	3.77	59	40816	205.66235 ppb		97
15) Methyl Acetate	3.38	43	552751	100.75335 ppb		93
16) Iodomethane	2.99	142	1188265	101.01657 ppb		99
17) Acrylonitrile	3.85	52	198246	104.83898 ppb		89
18) Methylene chloride	3.47	84	626610	100.48130 ppb		98
19) Carbon disulfide	3.07	76	1175238	108.52139 ppb		100
20) Methyl t-butyl ether (MtBE	3.95	73	2190300	101.83486 ppb		97
21) Trans-1,2-DCE	3.89	96	476518	100.95271 ppb		95
22) Diisopropyl Ether	4.74	59	334315	102.89349 ppb		95
23) 1,1-DCA	4.53	63	1295109	101.45013 ppb		98
24) Vinyl Acetate	4.74	87	829601	105.96018 ppb		99
25) Ethyl tert Butyl Ether	5.24	59	2486737	104.95908 ppb		99
26) MEK (2-Butanone)	5.41	43	269116	101.41174 ppb		99
27) Cis-1,2-DCE	5.35	96	843406	101.35992 ppb		98
28) 2,2-Dichloropropane	5.34	77	1072263	101.83978 ppb		98
29) Chloroform	5.78	83	1531668	100.46313 ppb		99
30) Bromochloromethane	5.65	128	397504	101.27331 ppb		99
32) 1,1,1-TCA	5.98	97	1172576	104.82650 ppb		97
33) Cyclohexane	6.05	41	573570	100.32276 ppb		97
34) 1,1-Dichloropropene	6.19	75	763868	105.93170 ppb		98
35) 2,2,4-Trimethylpentane	6.57	57	2352574	113.05734 ppb		98
37) Carbon Tetrachloride	6.18	117	930759	111.38171 ppb		96
38) Tert Amyl Methyl Ether	6.61	73	2347917	104.84984 ppb		96
39) 1,2-DCA	6.44	62	1031380	100.59932 ppb		99
40) Benzene	6.42	78	2771253	100.44471 ppb		98
41) TCE	7.16	95	796510	101.73291 ppb		97
42) 2-Pentanone	7.39	43	1095839	222.60742 ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T11W.D Vial: 11
Acq On : 31 Jan 12 15:00 Operator:
Sample : 100ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	1,2-Dichloropropane	7.39	63	931636	100.86485	ppb	98
44)	Bromodichloromethane	7.69	83	1241072	105.11241	ppb	99
45)	Methyl Cyclohexane	7.37	83	1183892	111.66675	ppb	100
46)	Dibromomethane	7.51	93	492574	99.05872	ppb	98
48)	MIBK (methyl isobutyl ket	9.20	43	286094	113.20196	ppb	96
49)	1-Bromo-2-chloroethane	8.01	63	685376	99.65090	ppb	99
50)	Cis-1,3-Dichloropropene	8.17	75	1326253	107.94453	ppb	98
51)	Toluene	8.51	91	3671452	104.74939	ppb	98
52)	Trans-1,3-Dichloropropene	8.74	75	1210850	114.20609	ppb	97
53)	1,1,2-TCA	8.92	83	717555	105.69912	ppb	99
54)	2-Hexanone	9.20	43	449704	102.11878	ppb	96
57)	1,2-EDB	9.41	107	783835	97.87645	ppb	99
58)	Tetrachloroethene	9.07	166	919233	96.91887	ppb	100
59)	1-Chlorohexane	9.92	91	1315417	100.53072	ppb	98
60)	1,1,1,2-Tetrachloroethane	10.01	131	1079910	107.32676	ppb	99
61)	m&p-Xylene	10.16	106	3713178	210.60894	ppb	99
62)	o-Xylene	10.55	106	1883392	106.55771	ppb	99
63)	Styrene	10.57	104	3400014	113.28757	ppb	98
65)	1,3-Dichloropropane	9.08	76	1347460	97.96250	ppb	99
66)	Dibromochloromethane	9.31	129	1015656	107.31233	ppb	99
67)	Chlorobenzene	9.92	112	2850249	99.97876	ppb	98
68)	Ethylbenzene	10.04	91	4751009	102.32326	ppb	100
69)	Bromoform	10.73	173	694633	117.06801	ppb	98
71)	Isopropylbenzene	10.93	105	4859710	97.05162	ppb	98
72)	1,1,2,2-Tetrachloroethane	11.21	83	1064590	98.78078	ppb	96
73)	1,2,3-Trichloropropane	11.24	110	309940	92.19842	ppb	95
74)	t-1,4-Dichloro-2-Butene	11.27	53	235447	96.30925	ppb	97
75)	Bromobenzene	11.21	156	1389883	91.68598	ppb	99
76)	n-Propylbenzene	11.33	91	6142684	99.74011	ppb	99
77)	4-Ethyltoluene	11.45	105	3616939	101.67918	ppb	98
78)	2-Chlorotoluene	11.41	91	4025562	97.41785	ppb	98
79)	1,3,5-Trimethylbenzene	11.51	105	4502740	101.76519	ppb	99
80)	4-Chlorotoluene	11.52	91	4241552	100.84488	ppb	99
81)	Tert-Butylbenzene	11.84	119	3976151	95.48832	ppb	98
82)	1,2,4-Trimethylbenzene	11.88	105	4562437	103.16477	ppb	99
83)	Sec-Butylbenzene	12.06	105	5789861	103.16695	ppb	100
84)	p-Isopropyltoluene	12.20	119	4958898	104.22457	ppb	98
85)	Benzyl Chloride	12.37	91	1672963	128.47514	ppb	99
86)	1,3-DCB	12.15	146	2714092	98.46550	ppb	98
87)	1,4-DCB	12.24	146	2735808	98.44515	ppb	99
88)	n-Butylbenzene	12.61	91	4520103	111.61660	ppb	99
89)	1,2-DCB	12.61	146	2564687	98.79262	ppb	98
90)	Hexachloroethane	12.87	117	829013	108.96261	ppb	98
91)	1,2-Dibromo-3-chloropropan	13.37	157	143808	102.66438	ppb	95
92)	1,2,4-Trichlorobenzene	14.21	180	1201152	115.46622	ppb	99
93)	Hexachlorobutadiene	14.40	225	964377	99.05338	ppb	98
94)	Naphthalene	14.45	128	3324999	125.92414	ppb	100
95)	1,2,3-Trichlorobenzene	14.70	180	1670073	119.35656	ppb	100

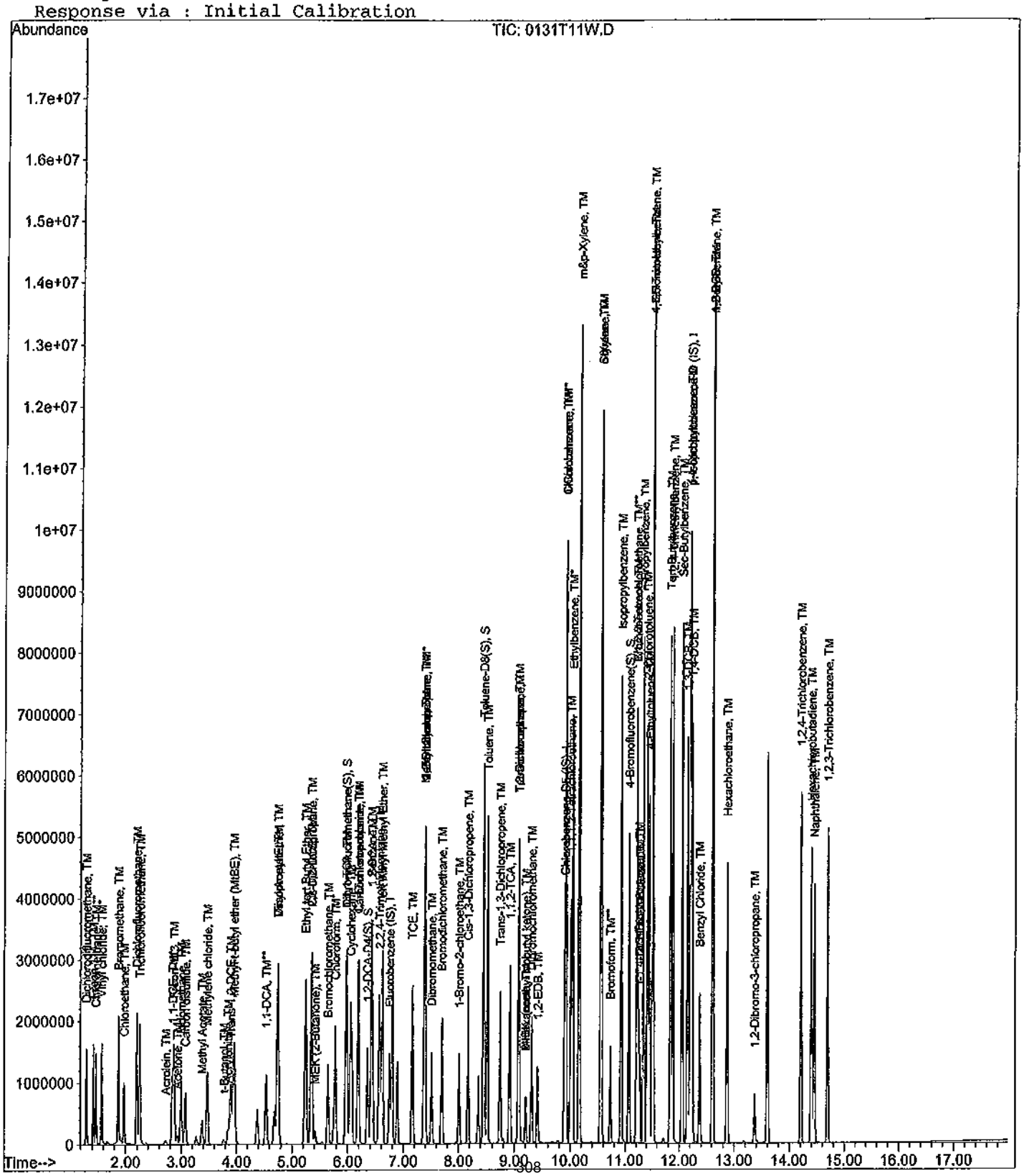
(#) = qualifier out of range (m) = manual integration

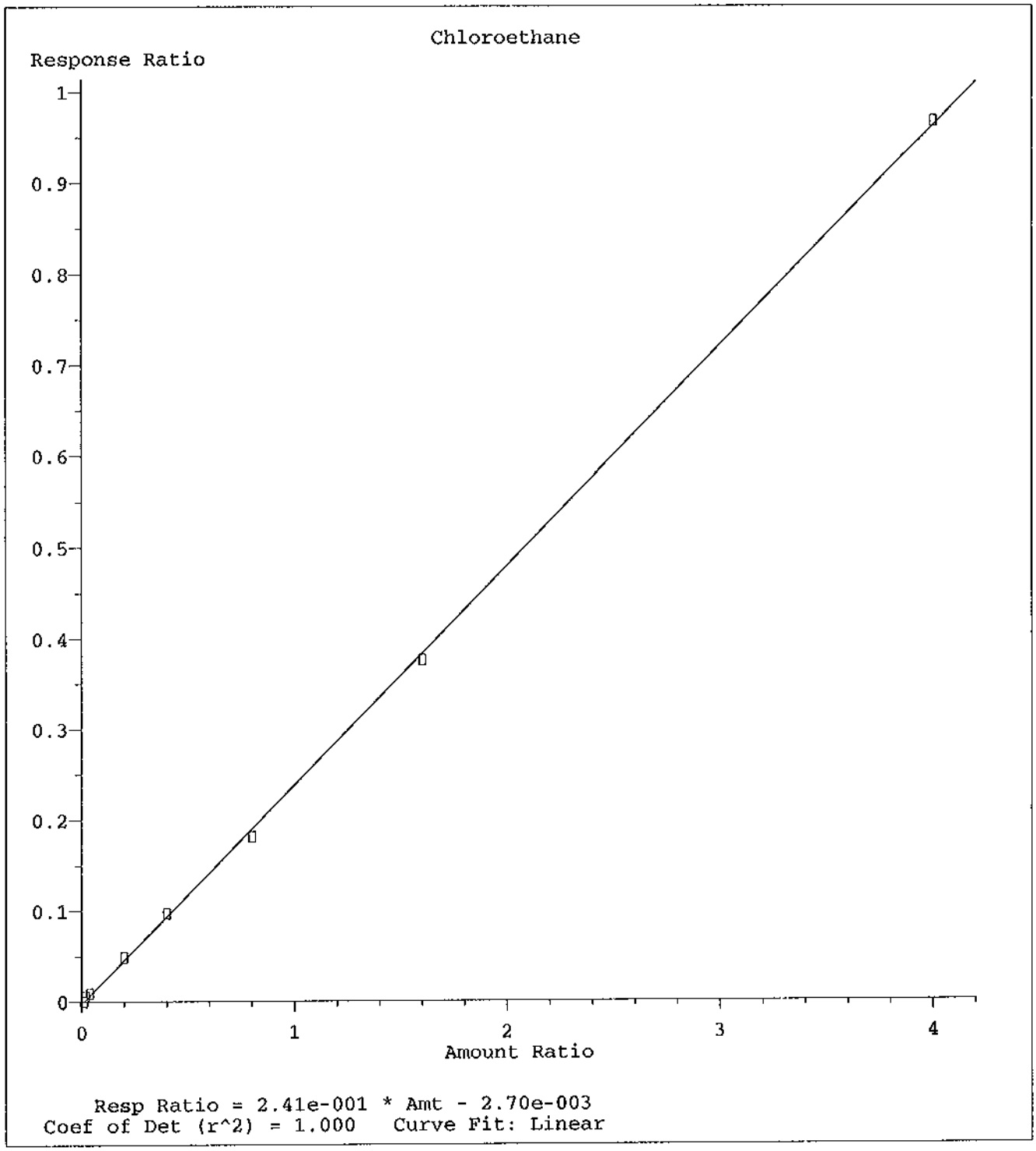
Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T11W.D Vial: 11
Acq On : 31 Jan 12 15:00 Operator:
Sample : 100ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

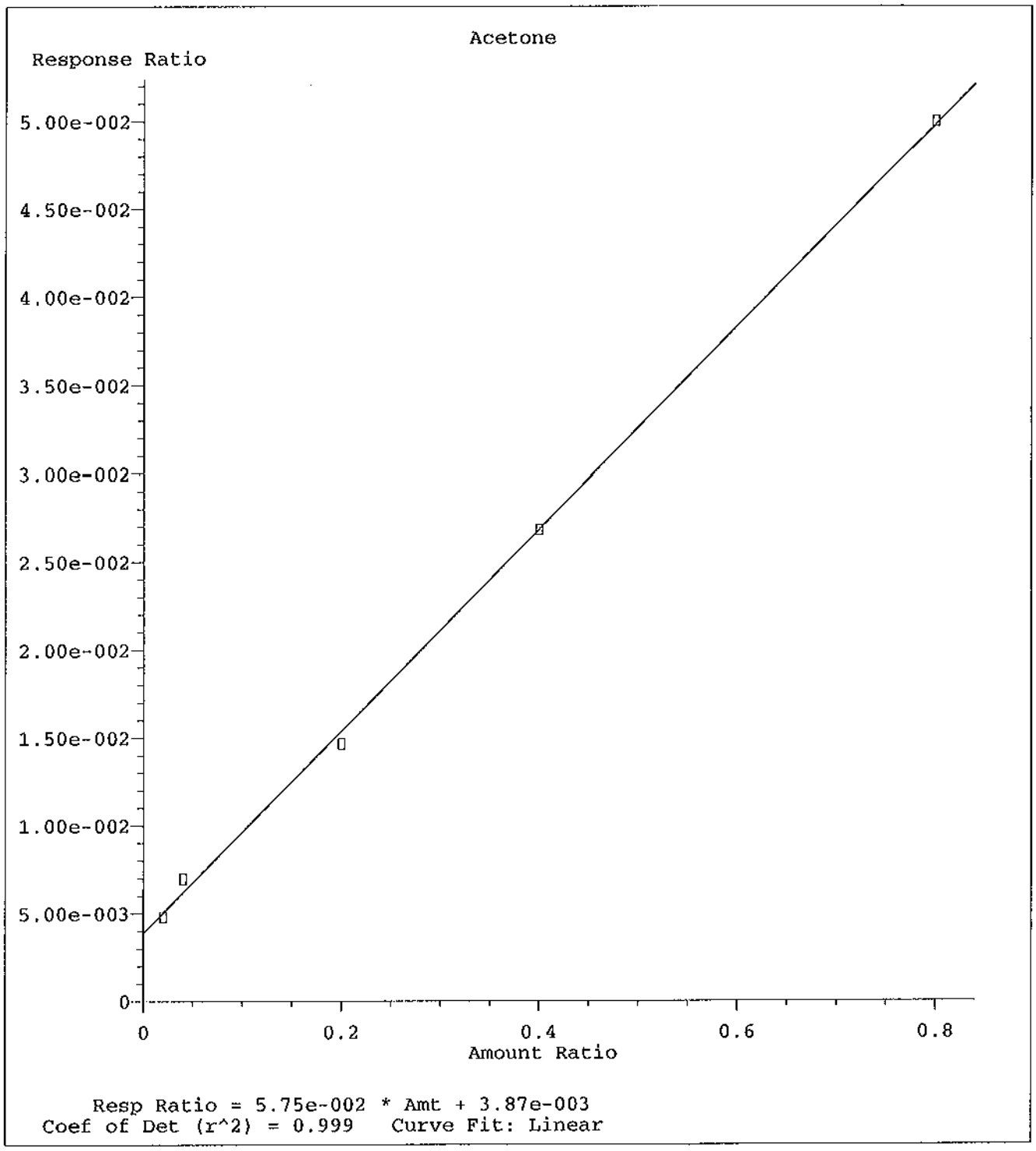
Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration

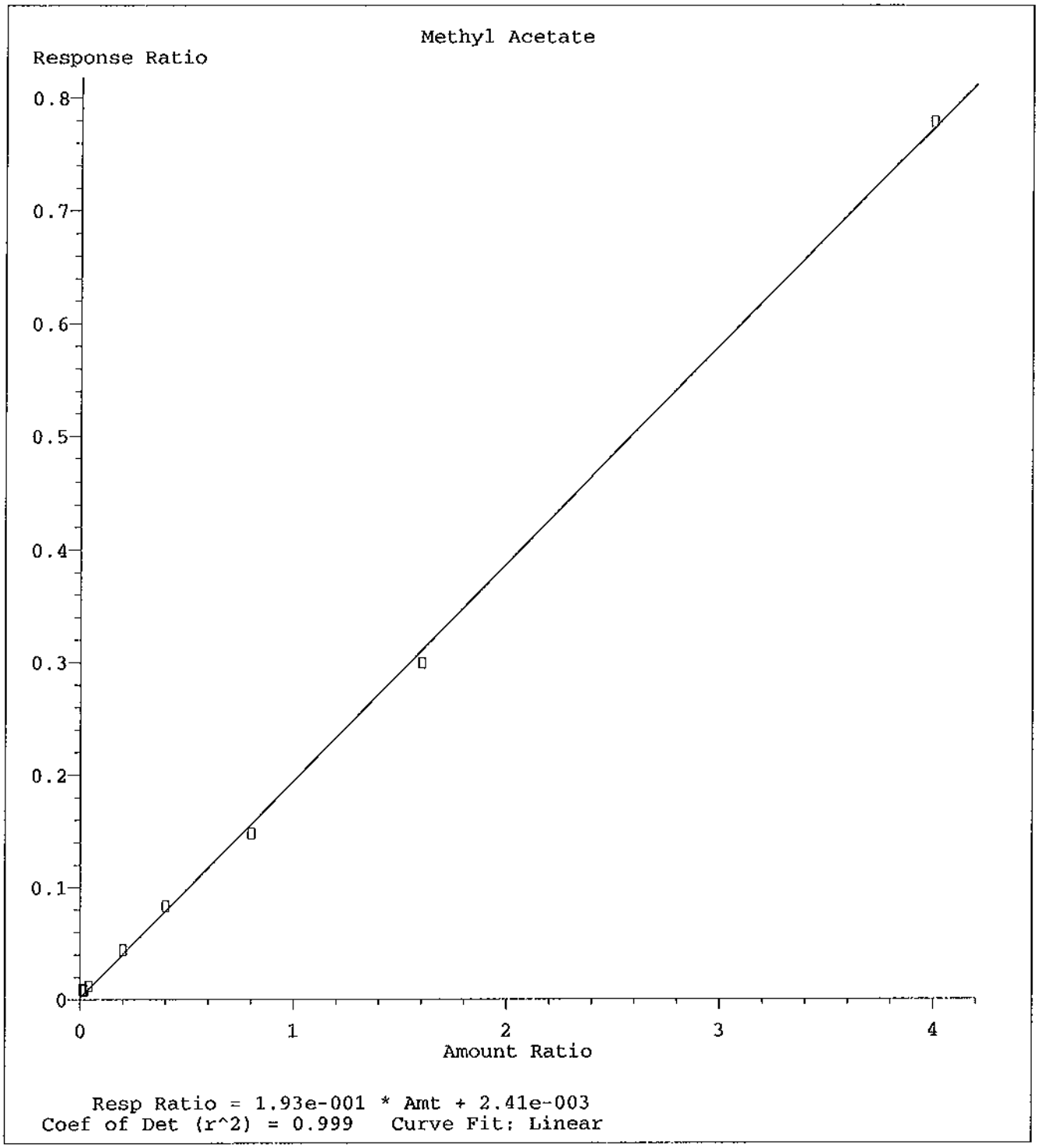




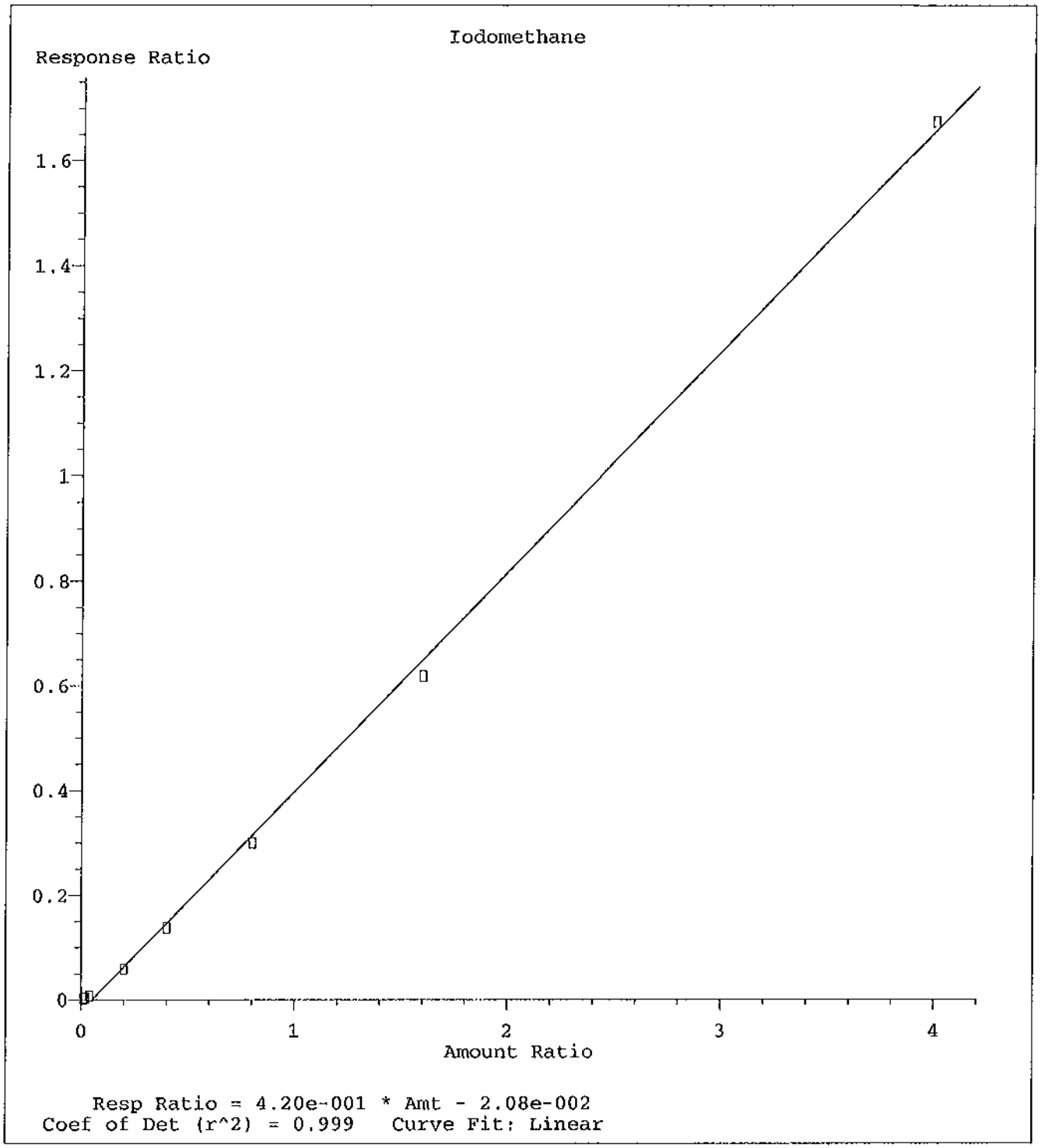
Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



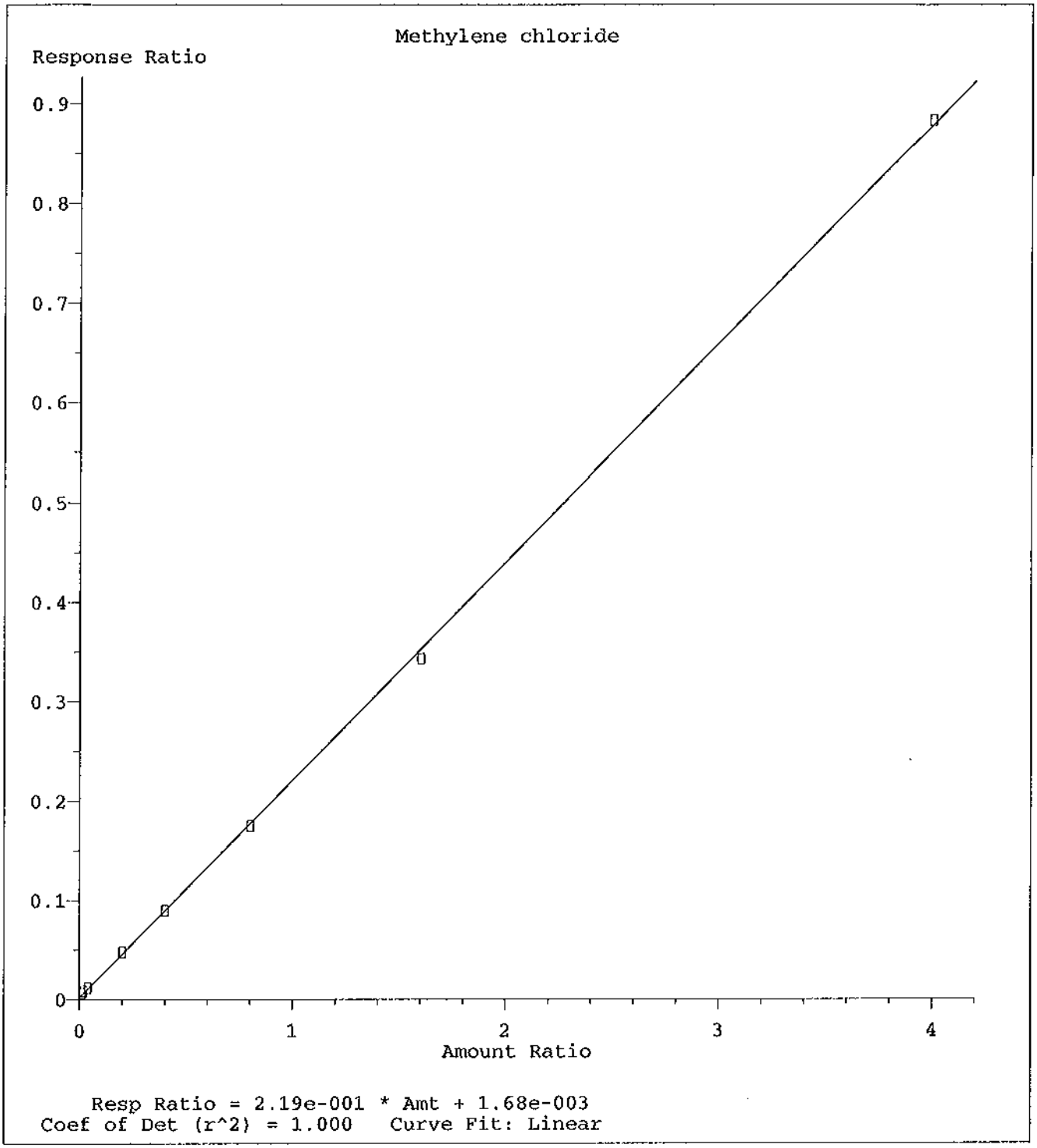
Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



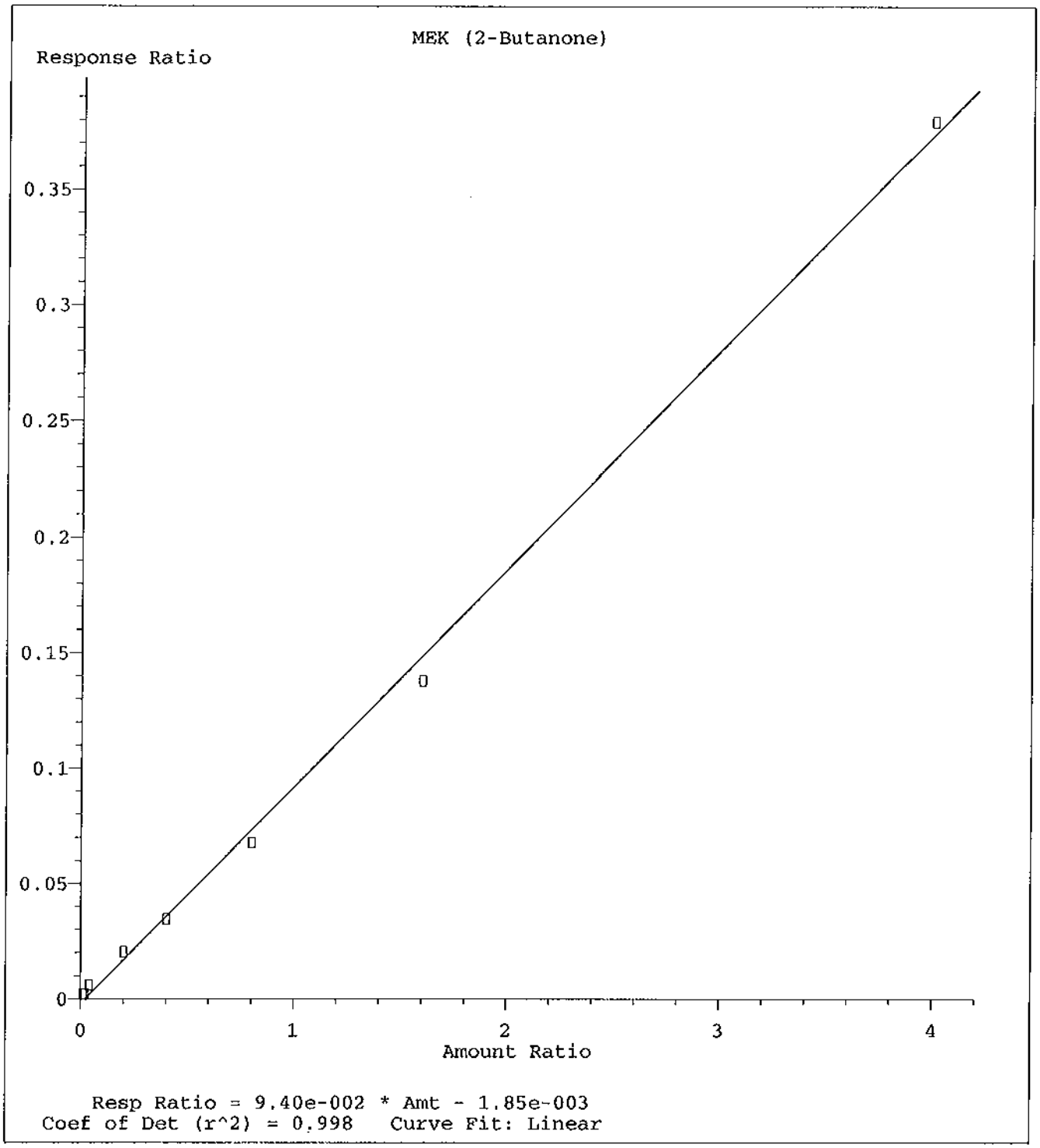
Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



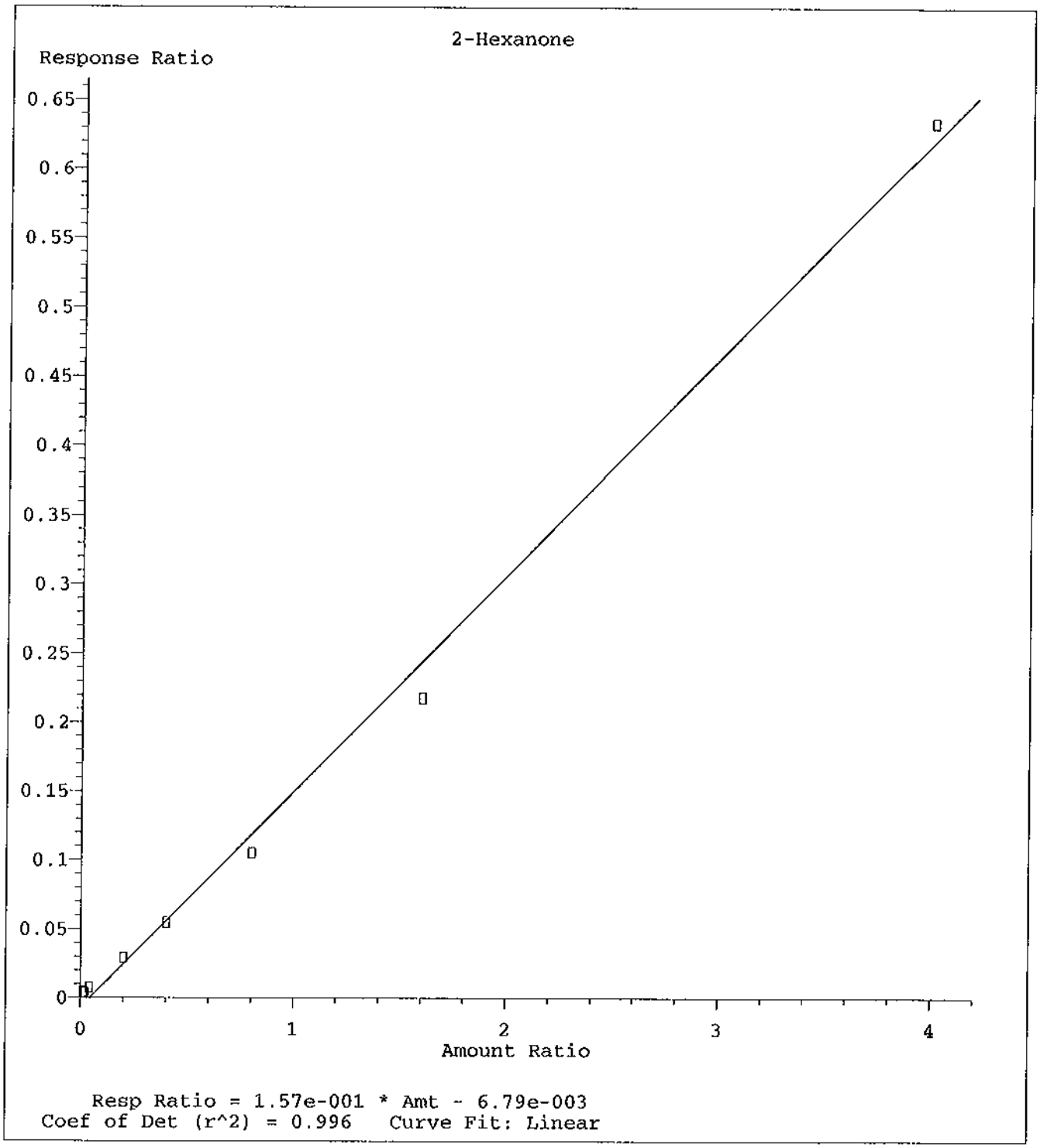
Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



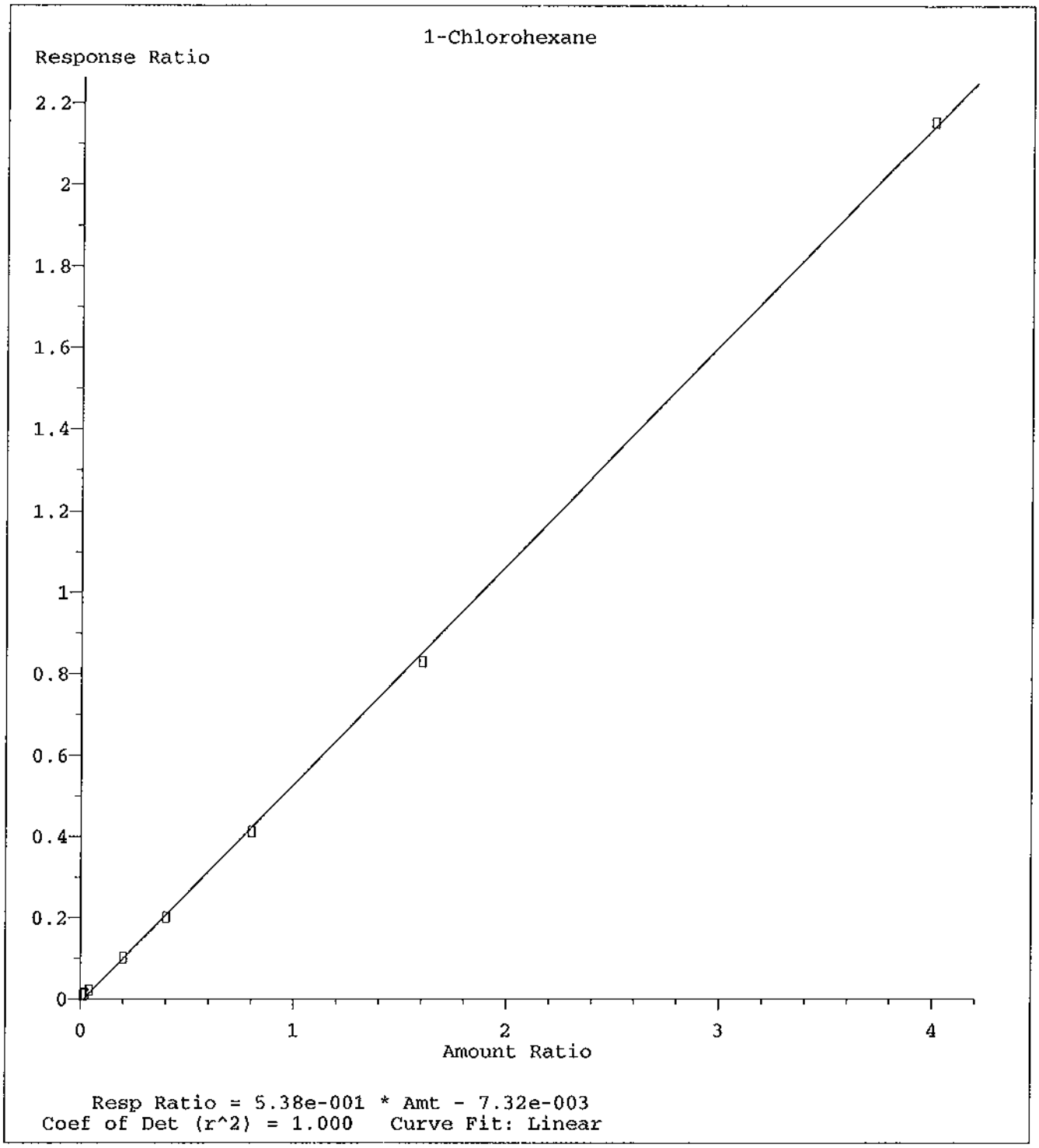
Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66795
Date Analyzed: 01/31/12
Instrument: Thor
Initial Cal. Date: 01/31/12
Data File: 0131T17W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	0.2775	0.3099	12	TM	
3	TM	Freon 114	0.1578	0.1727	9.4	TM	
4	TM**	Chloromethane	0.3708	0.3566	3.8	TM**	
5	TM*	Vinyl chloride	0.3740	0.3677	1.7	TM*	
6	TM	Bromomethane	0.2504	0.2119	15	TM	
7	TML	Chloroethane	0.2134	0.2380	11	TML	1.4
8	TM	Dichlorofluoromethane	0.6001	0.6031	0.49	TM	
9	TM	Trichlorofluoromethane	0.4709	0.4894	3.9	TM	
10	TM	Acrolein	0.0055	0.0054	2.0	TM	
11	TML	Acetone	0.1234	0.0767	38	TML	17
12	TM	Freon-113	0.2306	0.2379	3.2	TM	
13	TM*	1,1-DCE	0.2115	0.2147	1.5	TM*	
14	TM	t-Butanol	0.0070	0.0072	2.5	TM	
15	TML	Methyl Acetate	0.3032	0.2028	33	TML	2.1
16	TML	Iodomethane	0.2942	0.3037	3.2	TML	15
17	TM	Acrylonitrile	0.0667	0.0680	2.1	TM	
18	TML	Methylene chloride	0.2935	0.2263	23	TML	1.2
19	TM	Carbon disulfide	0.3817	0.3903	2.2	TM	
20	TM	Methyl t-butyl ether (MtBE)	0.7581	0.7602	0.27	TM	
21	TM	Trans-1,2-DCE	0.1664	0.1637	1.6	TM	
22	TM	Diisopropyl Ether	0.1145	0.1162	1.5	TM	
23	TM**	1,1-DCA	0.4500	0.4444	1.2	TM**	
24	TM	Vinyl Acetate	0.2760	0.2823	2.3	TM	
25	TM	Ethyl tert Butyl Ether	0.8351	0.8439	1.1	TM	
26	TML	MEK (2-Butanone)	0.1099	0.0992	9.7	TML	11
27	TM	Cis-1,2-DCE	0.2933	0.2991	2.0	TM	
28	TM	2,2-Dichloropropane	0.3711	0.3469	6.5	TM	
29	TM*	Chloroform	0.5374	0.5274	1.9	TM*	
30	TM	Bromochloromethane	0.1384	0.1356	2.0	TM	
31	S	Dibromofluoromethane(S)	0.3591	0.3514	2.1	S	
32	TM	1,1,1-TCA	0.3943	0.3920	0.59	TM	
33	TM	Cyclohexane	0.2015	0.1928	4.3	TM	
34	TM	1,1-Dichloropropene	0.2542	0.2600	2.3	TM	
35	TM	2,2,4-Trimethylpentane	0.7335	0.7503	2.3	TM	
36	S	1,2-DCA-D4(S)	0.3901	0.3868	0.86	S	
37	TM	Carbon Tetrachloride	0.2946	0.3021	2.6	TM	
38	TM	Tert Amyl Methyl Ether	0.7893	0.7857	0.46	TM	
39	TM	1,2-DCA	0.3614	0.3589	0.69	TM	
40	TM	Benzene	0.9725	0.9566	1.6	TM	
		Average			5.5		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 66795
Date Analyzed: 01/31/12
Instrument: Thor
Cal. Date: 01/31/12
Data File: 0131T17W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	TCE	0.2760	0.2757	0.11	TM	
42	TM	2-Pentanone	0.1735	0.1720	0.86	TM	
43	TM*	1,2-Dichloropropane	0.3256	0.3218	1.2	TM*	
44	TM	Bromodichloromethane	0.4162	0.4112	1.2	TM	
45	TM	Methyl Cyclohexane	0.3737	0.3885	4.0	TM	
46	TM	Dibromomethane	0.1753	0.1696	3.2	TM	
47	TM	MIBK (methyl isobutyl ketone)	0.0891	0.0912	2.4	TM	
48	TM	1-Bromo-2-chloroethane	0.2424	0.2287	5.7	TM	
49	TM	Cis-1,3-Dichloropropene	0.4331	0.4336	0.11	TM	
50	TM*	Toluene	1.235	1.234	0.13	TM*	
51	TM	Trans-1,3-Dichloropropene	0.3737	0.3724	0.36	TM	
52	TM	1,1,2-TCA	0.2393	0.2417	1.0	TM	
53	TML	2-Hexanone	0.1787	0.1519	15	TML	7.6
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	1.576	1.541	2.2	S	
56	TM	1,2-EDB	0.3279	0.3222	1.7	TM	
57	TM	Tetrachloroethene	0.3884	0.3886	0.06	TM	
58	TML	1-Chlorohexane	0.5744	0.5131	11	TML	1.2
59	TM	1,1,1,2-Tetrachloroethane	0.4120	0.4127	0.18	TM	
60	TM	m&p-Xylene	0.7219	0.7258	0.53	TM	
61	TM	o-Xylene	0.7237	0.7347	1.5	TM	
62	TM	Styrene	1.229	1.243	1.2	TM	
63	S	4-Bromofluorobenzene(S)	0.5939	0.6088	2.5	S	
64	TM	1,3-Dichloropropane	0.5632	0.5719	1.5	TM	
65	TM	Dibromochloromethane	0.3875	0.3812	1.6	TM	
66	TM**	Chlorobenzene	1.167	1.148	1.6	TM**	
67	TM*	Ethylbenzene	1.901	1.896	0.30	TM*	
68	TM**	Bromoform	0.2430	0.2557	5.2	TM**	
69	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
70	TM	Isopropylbenzene	3.412	3.309	3.0	TM	
71	TM**	1,1,2,2-Tetrachloroethane	0.7345	0.7388	0.59	TM**	
72	TM	1,2,3-Trichloropropane	0.2291	0.2219	3.1	TM	
73	TM	t-1,4-Dichloro-2-Butene	0.1666	0.1481	11	TM	
74	TM	Bromobenzene	1.033	0.9552	7.5	TM	
75	TM	n-Propylbenzene	4.197	4.098	2.4	TM	
76	TM	4-Ethyltoluene	2.424	2.397	1.1	TM	
77	TM	2-Chlorotoluene	2.816	2.752	2.3	TM	
78	TM	1,3,5-Trimethylbenzene	3.015	2.937	2.6	TM	
79	TM	4-Chlorotoluene	2.866	2.833	1.1	TM	
80	TM	Tert-Butylbenzene	2.838	2.648	6.7	TM	
		Average			2.8		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 66795
Date Analyzed: 01/31/12
Instrument: Thor
Cal. Date: 01/31/12
Data File: 0131T17W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	1,2,4-Trimethylbenzene	3.014	2.966	1.6	TM	
82	TM	Sec-Butylbenzene	3.825	3.788	0.97	TM	
83	TM	p-Isopropyltoluene	3.242	3.155	2.7	TM	
84	TM	Benzyl Chloride	0.8874	0.7626	14	TM	
85	TM	1,3-DCB	1.878	1.807	3.8	TM	
86	TM	1,4-DCB	1.894	1.809	4.5	TM	
87	TM	n-Butylbenzene	2.760	2.725	1.2	TM	
88	TM	1,2-DCB	1.769	1.695	4.2	TM	
89	TM	Hexachloroethane	0.5185	0.4870	6.1	TM	
90	TM	1,2-Dibromo-3-chloropropane	0.0955	0.0809	15	TM	
91	TM	1,2,4-Trichlorobenzene	0.7089	0.6887	2.9	TM	
92	TM	Hexachlorobutadiene	0.6635	0.6356	4.2	TM	
93	TM	Naphthalene	1.799	1.856	3.1	TM	
94	TM	1,2,3-Trichlorobenzene	0.9535	0.9406	1.4	TM	
95							
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			4.7		

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 Operator:
Sample : 120131A LCS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	721472	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	577472	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	323520	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	331202	31.96277 ppb	0.00
Spiked Amount 32.661			Recovery =	97.863%	
36) 1,2-DCA-D4(S)	6.34	65	344866	30.63082 ppb	0.00
Spiked Amount 30.896			Recovery =	99.144%	
56) Toluene-D8(S)	8.44	98	1208016	33.18014 ppb	0.00
Spiked Amount 33.937			Recovery =	97.770%	
64) 4-Bromofluorobenzene(S)	11.06	95	466225	33.98313 ppb	0.00
Spiked Amount 33.154			Recovery =	102.501%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.28	85	89447	11.16976 ppb	99
3) Freon 114	1.40	85	49840	10.94305 ppb	100
4) Chloromethane	1.44	50	102916	9.61880 ppb	97
5) Vinyl chloride	1.55	62	106116	9.83271 ppb	98
6) Bromomethane	1.85	94	61157	8.46462 ppb	99
7) Chloroethane	1.96	64	68671	10.14348 ppb	97
8) Dichlorofluoromethane	2.17	67	174035	10.04930 ppb	100
9) Trichlorofluoromethane	2.23	101	141224	10.39160 ppb	97
10) Acrolein	2.70	55	19380	122.45436 ppb	82
11) Acetone	2.90	43	22126	11.66013 ppb	83
12) Freon-113	2.85	101	68650	10.31550 ppb	97
13) 1,1-DCE	2.81	61	61955	10.15051 ppb	98
14) t-Butanol	3.73	59	25856	128.07499 ppb	95
15) Methyl Acetate	3.36	43	58526	10.20702 ppb	90
16) Iodomethane	2.97	142	87651	8.47425 ppb	94
17) Acrylonitrile	3.82	52	19634	10.20718 ppb	83
18) Methylene chloride	3.45	84	65320	10.12472 ppb	93
19) Carbon disulfide	3.06	76	112630	10.22403 ppb	97
20) Methyl t-butyl ether (MtBE	3.93	73	219378	10.02685 ppb	98
21) Trans-1,2-DCE	3.87	96	47232	9.83680 ppb	96
22) Diisopropyl Ether	4.72	59	33543	10.14875 ppb	93
23) 1,1-DCA	4.51	63	128263	9.87703 ppb	99
24) Vinyl Acetate	4.72	87	81461	10.22826 ppb	94
25) Ethyl tert Butyl Ether	5.23	59	243541	10.10511 ppb	98
26) MEK (2-Butanone)	5.40	43	28640	11.05030 ppb	96
27) Cis-1,2-DCE	5.34	96	86319	10.19799 ppb	100
28) 2,2-Dichloropropane	5.33	77	100111	9.34709 ppb	97
29) Chloroform	5.77	83	152199	9.81369 ppb	100
30) Bromochloromethane	5.63	128	39123	9.79861 ppb	93
32) 1,1,1-TCA	5.97	97	113118	9.94124 ppb	100
33) Cyclohexane	6.04	41	55633	9.56586 ppb	92
34) 1,1-Dichloropropene	6.18	75	75028	10.22845 ppb	99
35) 2,2,4-Trimethylpentane	6.56	57	216542	10.23001 ppb	99
37) Carbon Tetrachloride	6.17	117	87181	10.25598 ppb	97
38) Tert Amyl Methyl Ether	6.61	73	226745	9.95409 ppb	98
39) 1,2-DCA	6.43	62	103571	9.93100 ppb	98
40) Benzene	6.41	78	276076	9.83690 ppb	99
41) TCE	7.16	95	79560	9.98950 ppb	98
42) 2-Pentanone	7.38	43	620548	123.92157 ppb	98

Algorithm Check: $\frac{(106116)(25)}{(721472)(0.37401)}$ (1) = 9.83 ✓ ARS 3/10/12

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 Operator:
Sample : 120131A LCS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloropropane	7.39	63	92869	9.88423	ppb	99
44)	Bromodichloromethane	7.69	83	118663	9.87986	ppb	99
45)	Methyl Cyclohexane	7.37	83	112123	10.39645	ppb	99
46)	Dibromomethane	7.51	93	48958	9.67884	ppb	93
48)	MIBK (methyl isobutyl ket	9.20	43	26318	10.23709	ppb	92
49)	1-Bromo-2-chloroethane	8.00	63	66000	9.43354	ppb	94
50)	Cis-1,3-Dichloropropene	8.17	75	125120	10.01105	ppb	98
51)	Toluene	8.51	91	356062	9.98661	ppb	98
52)	Trans-1,3-Dichloropropene	8.74	75	107465	9.96425	ppb	97
53)	1,1,2-TCA	8.92	83	69763	10.10229	ppb	98
54)	2-Hexanone	9.20	43	43835	10.76441	ppb	92
57)	1,2-EDB	9.41	107	74425	9.82584	ppb	98
58)	Tetrachloroethene	9.07	166	89761	10.00617	ppb	99
59)	1-Chlorohexane	9.92	91	118519	9.88469	ppb	99
60)	1,1,1,2-Tetrachloroethane	10.00	131	95340	10.01828	ppb	99
61)	m&p-Xylene	10.16	106	335284	20.10672	ppb	99
62)	o-Xylene	10.55	106	169711	10.15200	ppb	100
63)	Styrene	10.56	104	287132	10.11534	ppb	95
65)	1,3-Dichloropropane	9.08	76	132096	10.15386	ppb	98
66)	Dibromochloromethane	9.31	129	88053	9.83659	ppb	99
67)	Chlorobenzene	9.92	112	265218	9.83615	ppb	99
68)	Ethylbenzene	10.04	91	437842	9.97019	ppb	100
69)	Bromoform	10.73	173	59065	10.52472	ppb	98
71)	Isopropylbenzene	10.93	105	428276	9.69843	ppb	98
72)	1,1,2,2-Tetrachloroethane	11.21	83	95608	10.05934	ppb	95
73)	1,2,3-Trichloropropane	11.24	110	28716	9.68623	ppb	94
74)	t-1,4-Dichloro-2-Butene	11.26	53	19163	8.88840	ppb	94
75)	Bromobenzene	11.21	156	123604	9.24575	ppb	100
76)	n-Propylbenzene	11.33	91	530268	9.76320	ppb	98
77)	4-Ethyltoluene	11.45	105	310148	9.88655	ppb	100
78)	2-Chlorotoluene	11.41	91	356117	9.77214	ppb	96
79)	1,3,5-Trimethylbenzene	11.51	105	380082	9.74058	ppb	95
80)	4-Chlorotoluene	11.52	91	366677	9.88548	ppb	99
81)	Tert-Butylbenzene	11.84	119	342707	9.33244	ppb	100
82)	1,2,4-Trimethylbenzene	11.88	105	383886	9.84287	ppb	98
83)	Sec-Butylbenzene	12.05	105	490146	9.90337	ppb	100
84)	p-Isopropyltoluene	12.20	119	408260	9.72986	ppb	100
85)	Benzyl Chloride	12.37	91	98692	8.59409	ppb	100
86)	1,3-DCB	12.15	146	233870	9.62097	ppb	97
87)	1,4-DCB	12.24	146	234146	9.55390	ppb	99
88)	n-Butylbenzene	12.61	91	352693	9.87557	ppb	98
89)	1,2-DCB	12.61	146	219383	9.58248	ppb	99
90)	Hexachloroethane	12.87	117	63020	9.39246	ppb	97
91)	1,2-Dibromo-3-chloropropan	13.37	157	10475	8.47961	ppb	96
92)	1,2,4-Trichlorobenzene	14.21	180	89120	9.71443	ppb	96
93)	Hexachlorobutadiene	14.40	225	82253	9.57986	ppb	94
94)	Naphthalene	14.45	128	240182	10.31438	ppb	98
95)	1,2,3-Trichlorobenzene	14.69	180	121722	9.86427	ppb	97

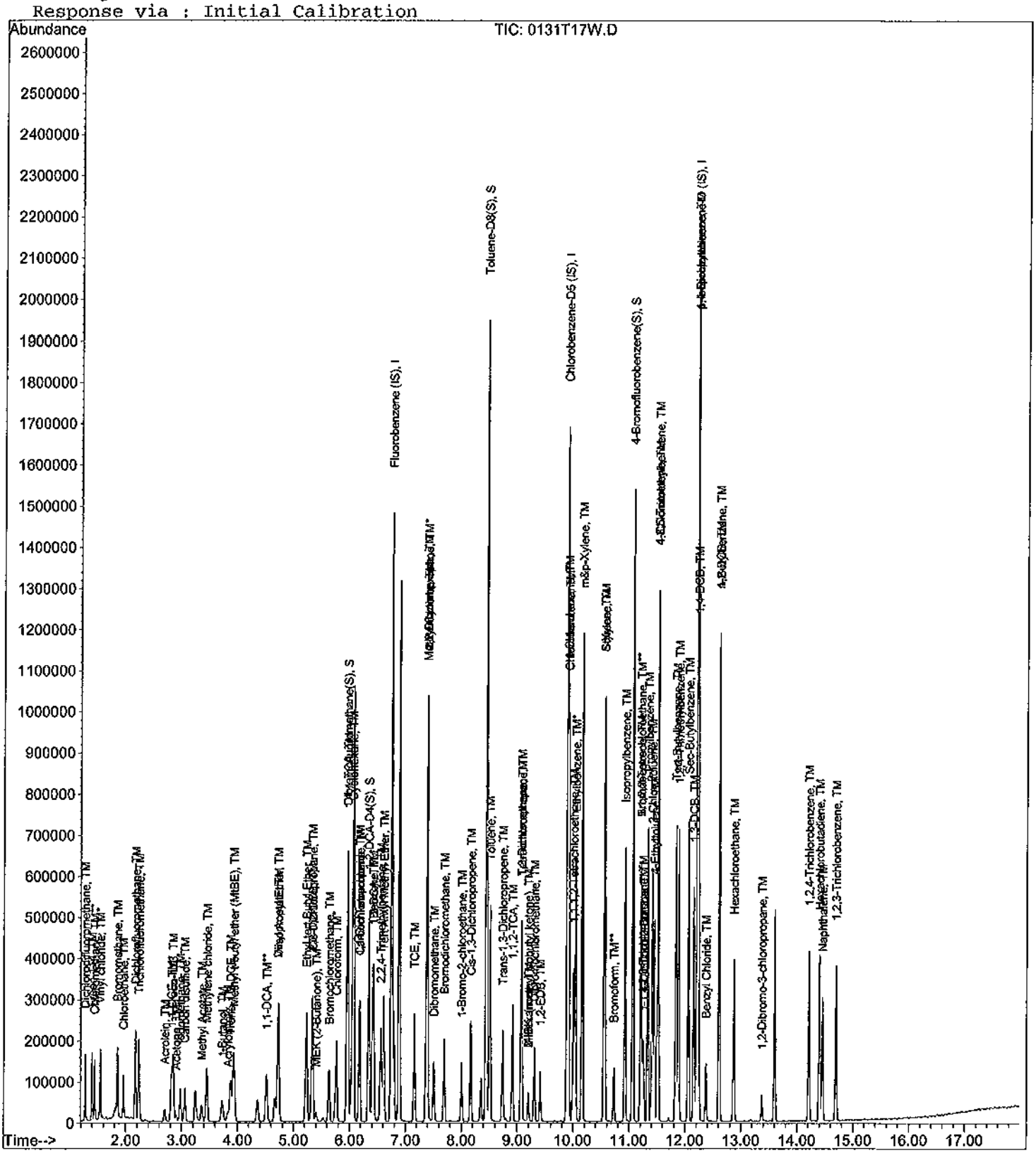
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 Operator:
Sample : 120131A LCS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66795
Case No: Initial Cal. Date: 01/25/12
Matrix: Water Instrument: Chico
Initials:

			0125C29W.D	0125C30W.D	0125C31W.D	0125C32W.D	0125C33W.D	0125C34W.D	0125C35W.D							
		Compound	20	50	100	300	600	800	1000				Avg	%RSD		r
1	I	Fluorobenzene (IS)														
2	TMHBL	Gasoline	23.6	10.6	5.907	3.541	2.892	2.841	2.494				7.4	104	TMHBL	0.997
3	I	Chlorobenzene-D5 (IS)														
4	I	1,4-Dichlorobenzene-D (IS)														
5																
6																
7																
8																
9																
10																
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33																
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35																

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:34 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:01:13 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1053352	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1266647	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1287754	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	17.98	TIC	19858101m	31.82421	ppb	100

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

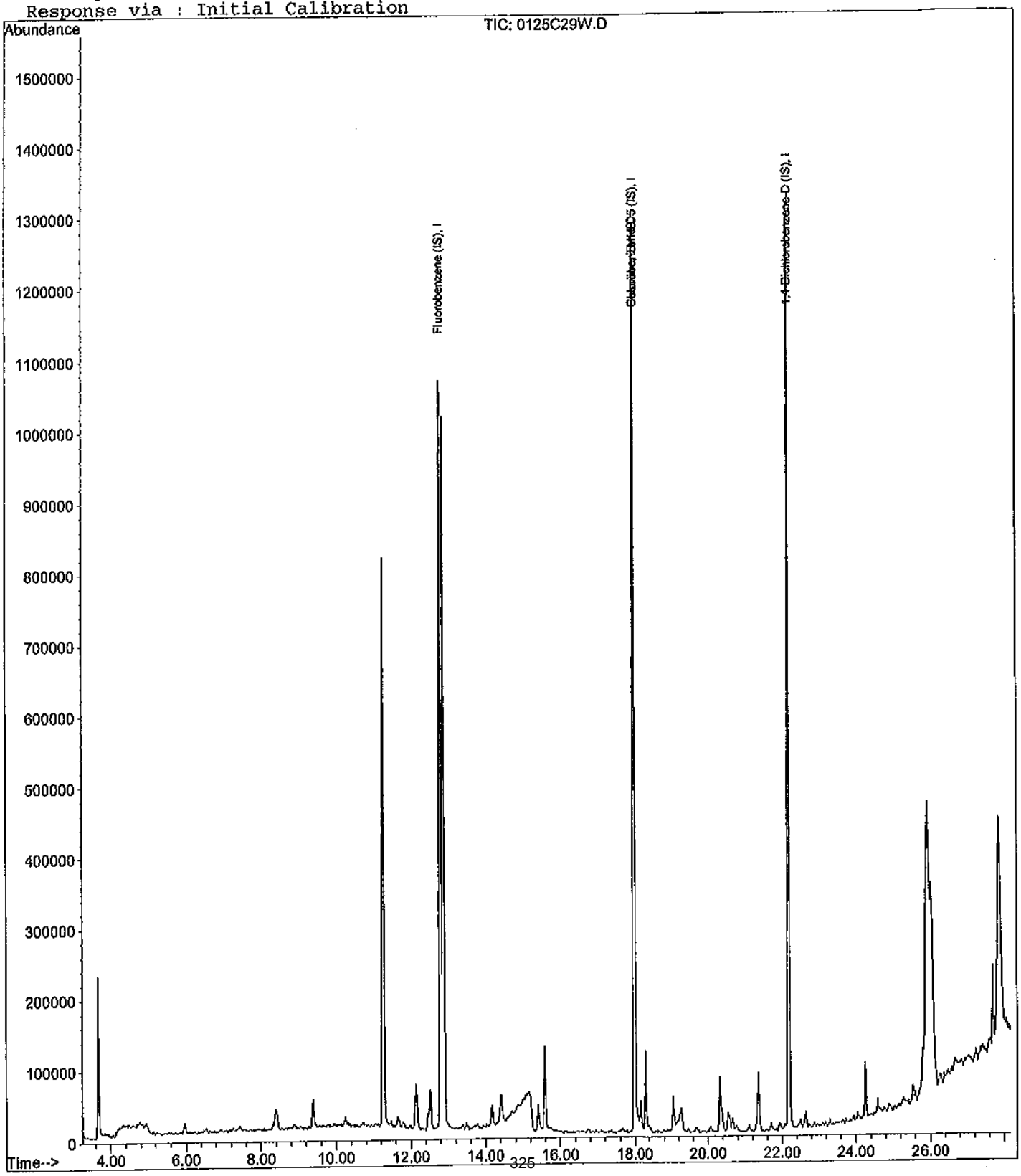
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D
Acq On : 26 Jan 12 19:32
Sample : Vol. Std. 01-26-12@20ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:34 2012 Quant Results File: CGAS.RES

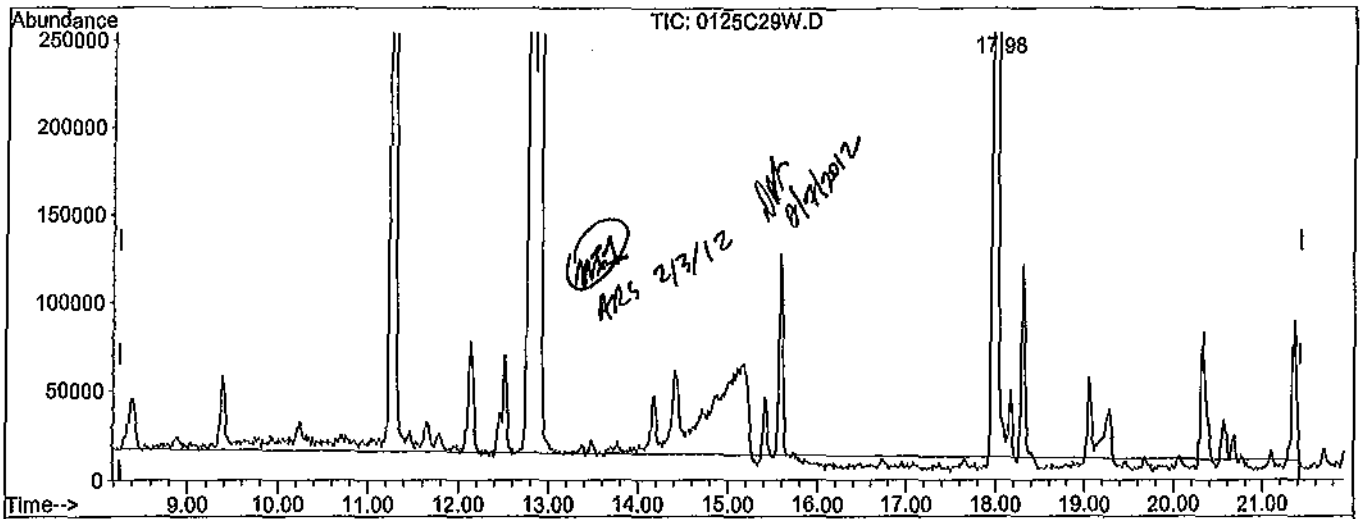
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

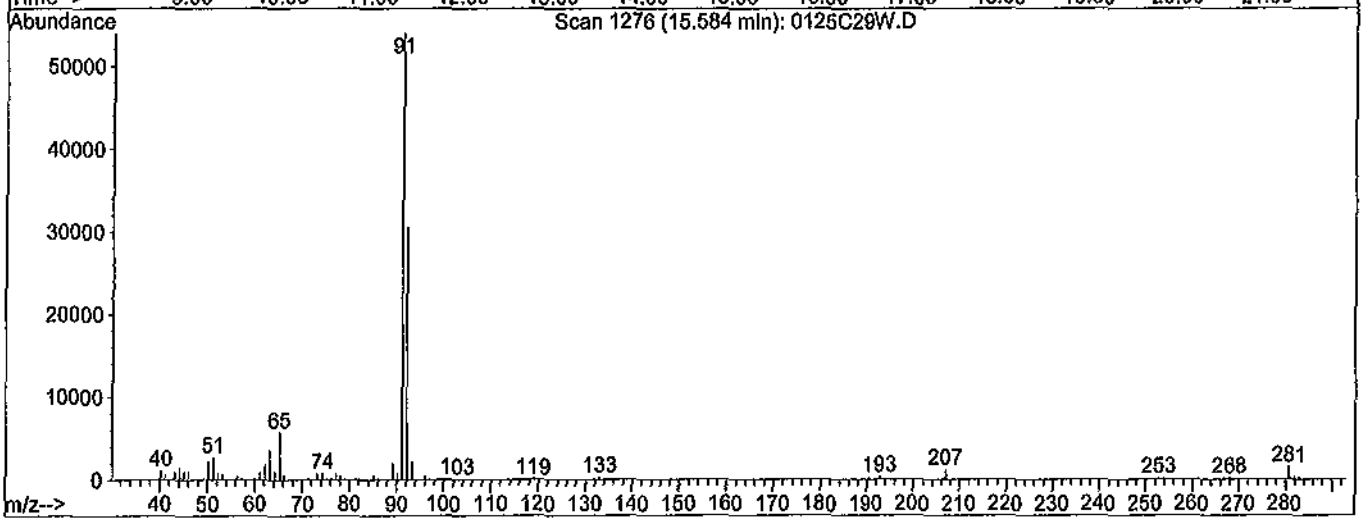


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C29W.D

(2) Gasoline (TMHB)

15.58min -8.2763ppb m

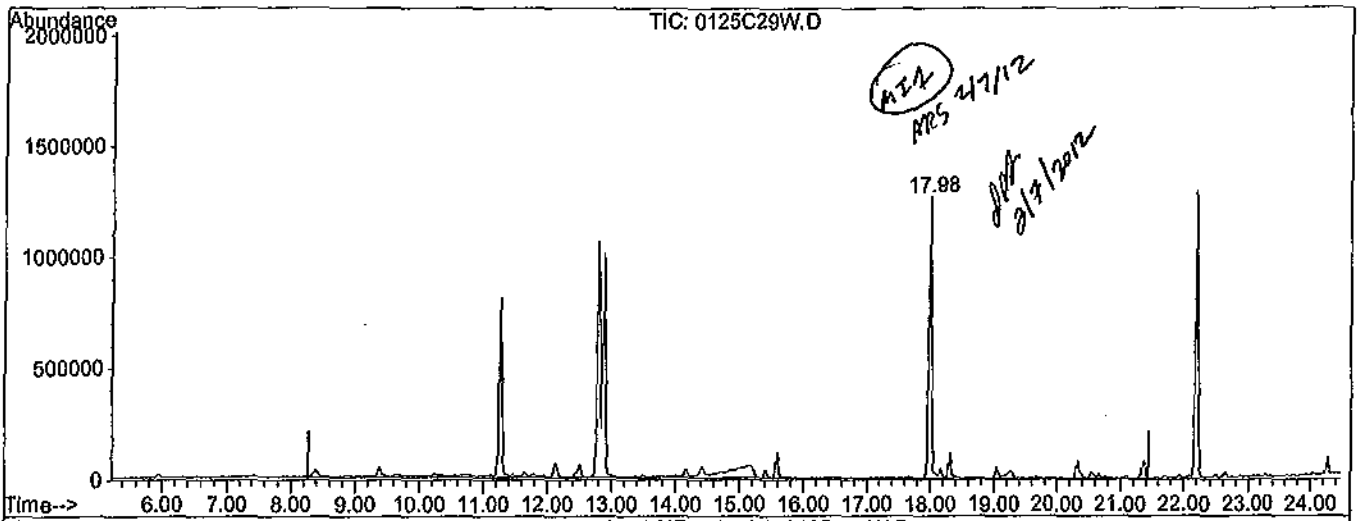
response 16152794

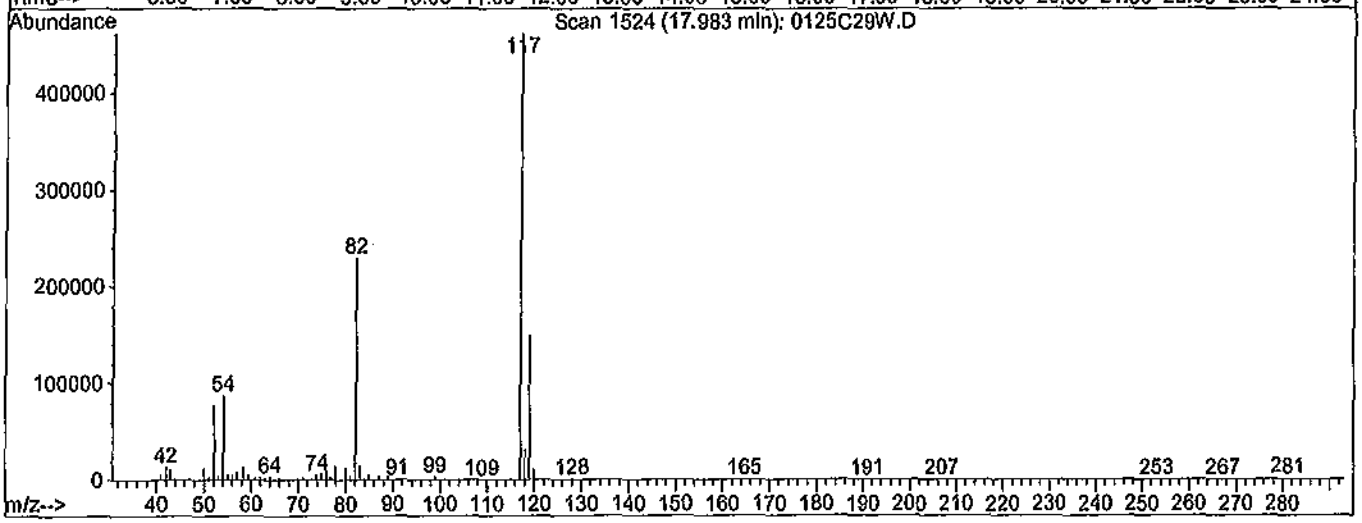
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.78#
0.00	0.00	2.40#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:34 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0125C29W.D

(2) Gasoline (TMHB)

17.98min 31.8242ppb m

response 19858101

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.64#
0.00	0.00	1.95#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:35 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1088272	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.99	TIC	1269196	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.19	TIC	1282230	25.00000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline	17.99	TIC	23136590m	59.27095	ppb	100

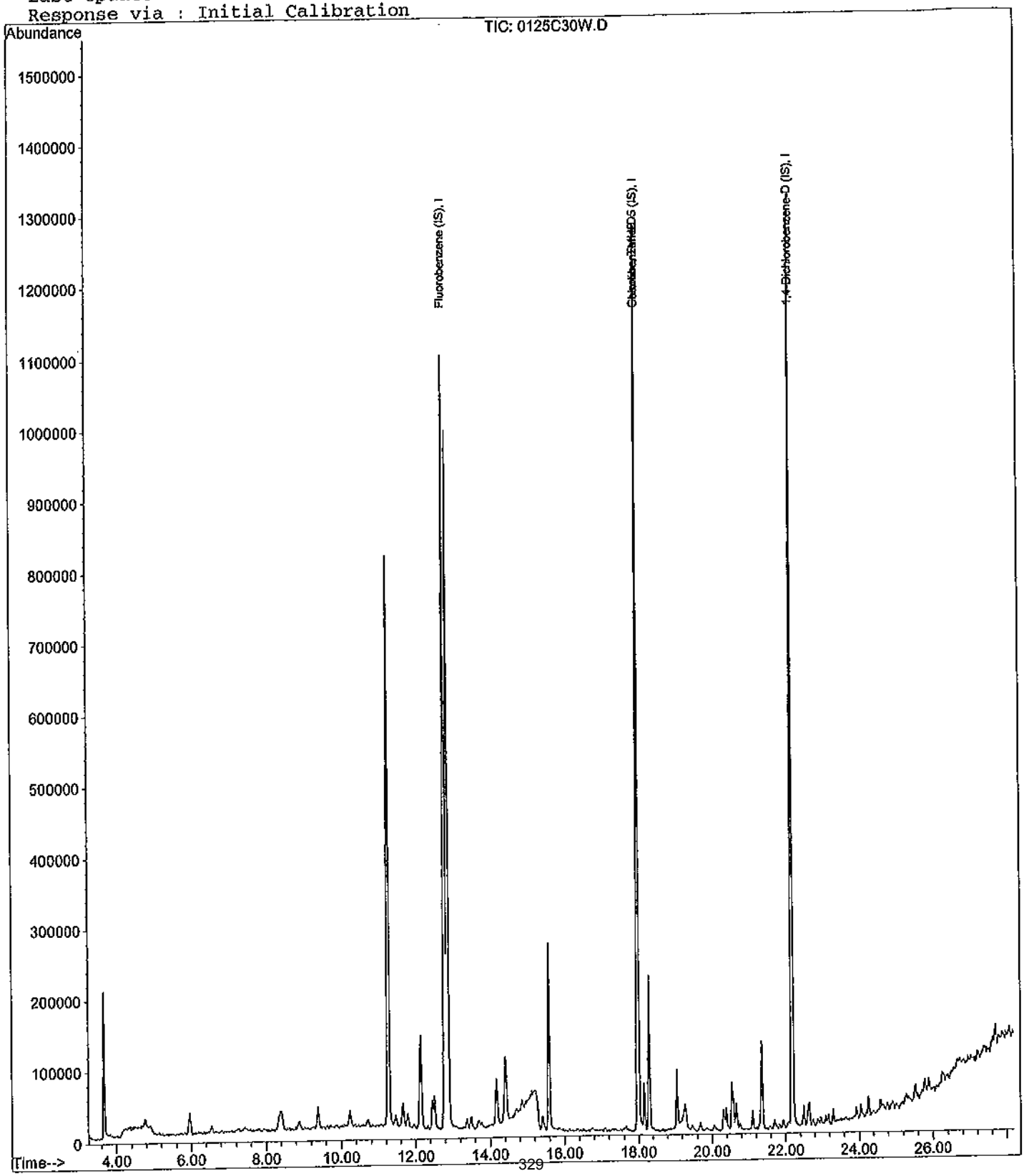
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D
Acq On : 26 Jan 12 20:09
Sample : Vol. Std. 01-26-12@50ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:35 2012 Quant Results File: CGAS.RES

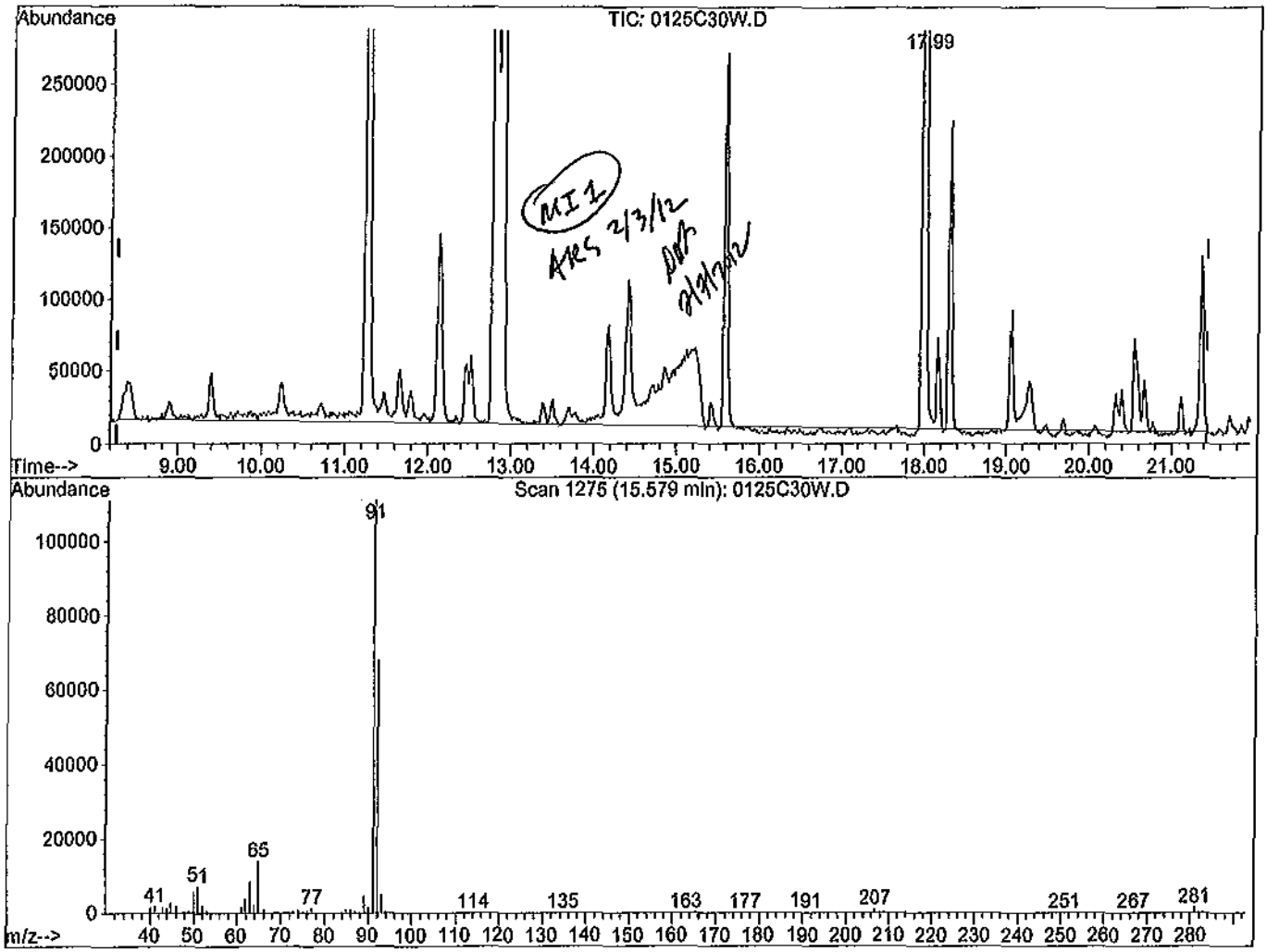
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



TIC: 0125C30W.D

(2) Gasoline (TMHB)

15.58min -0.0275ppb m

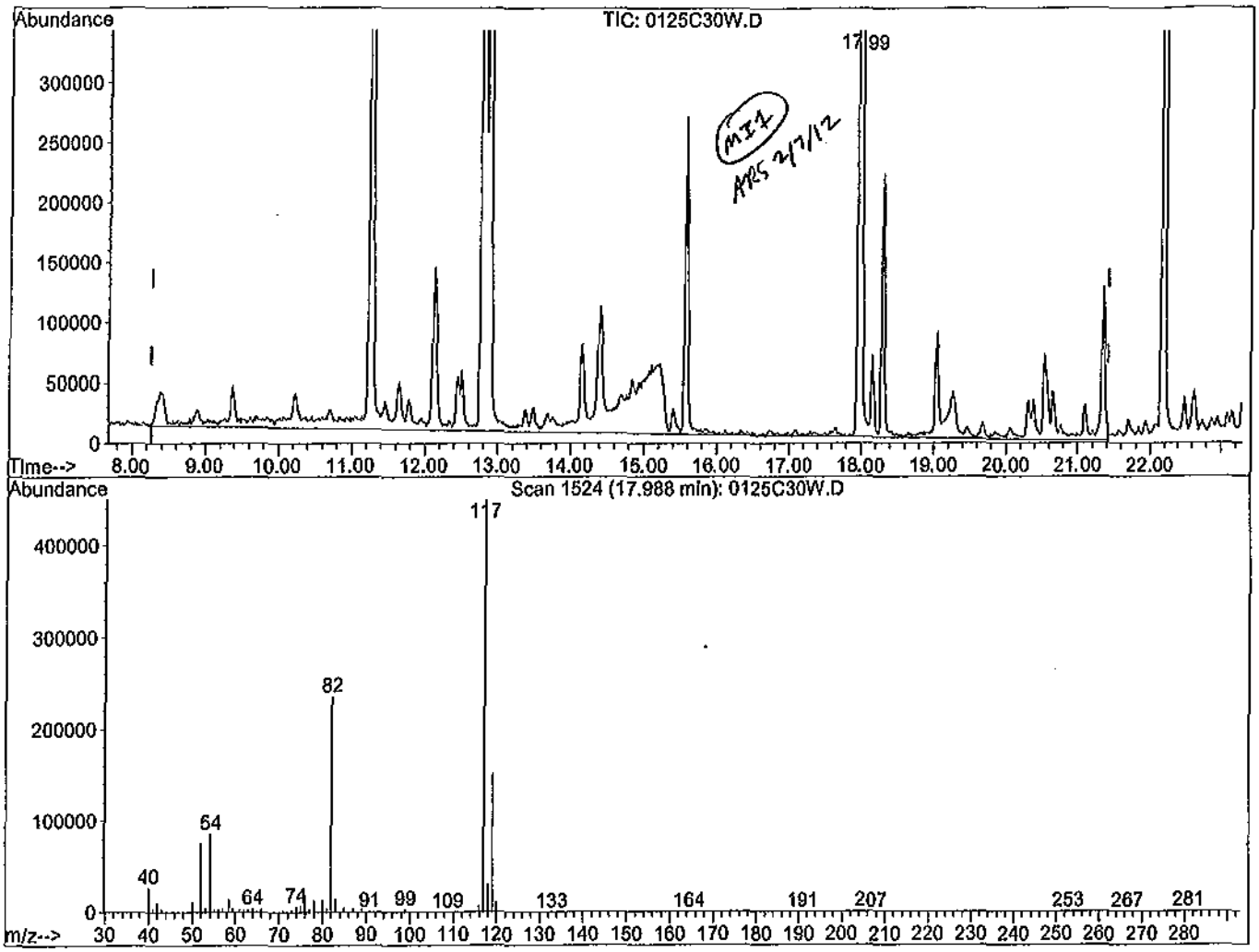
response 17475741

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.72#
0.00	0.00	2.18#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:35 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



TIC: 0125C30W.D

(2) Gasoline (TMHB)

17.99min 59.2710ppb m

response 23136590

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.54#
0.00	0.00	1.65#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:13 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1080126	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1280154	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1288106	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	17.98	TIC	26257782m	94.04042	ppb	100

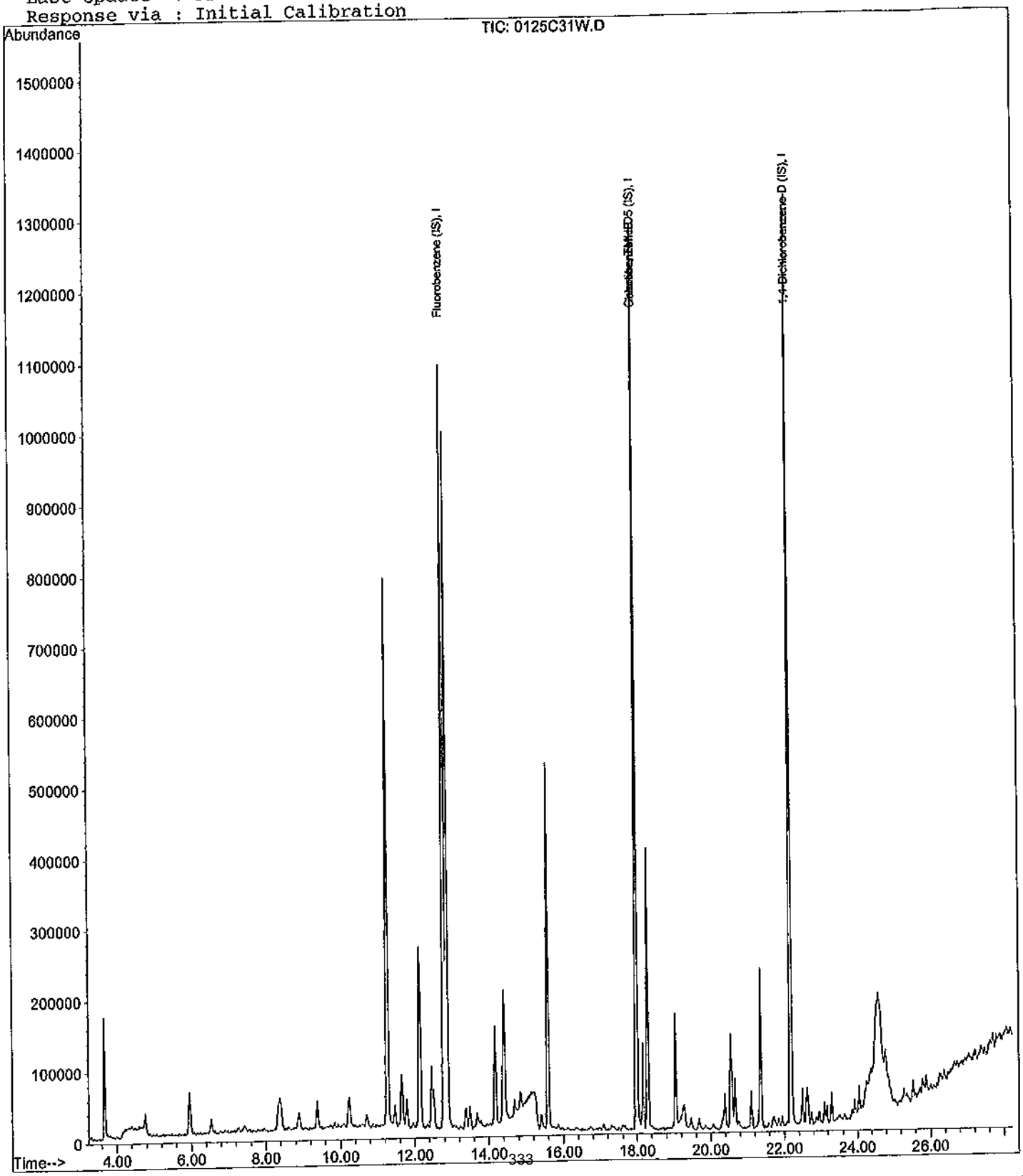
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D
Acq On : 26 Jan 12 20:46
Sample : Vol. Std. 01-26-12@100ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:13 2012 Quant Results File: CGAS.RES

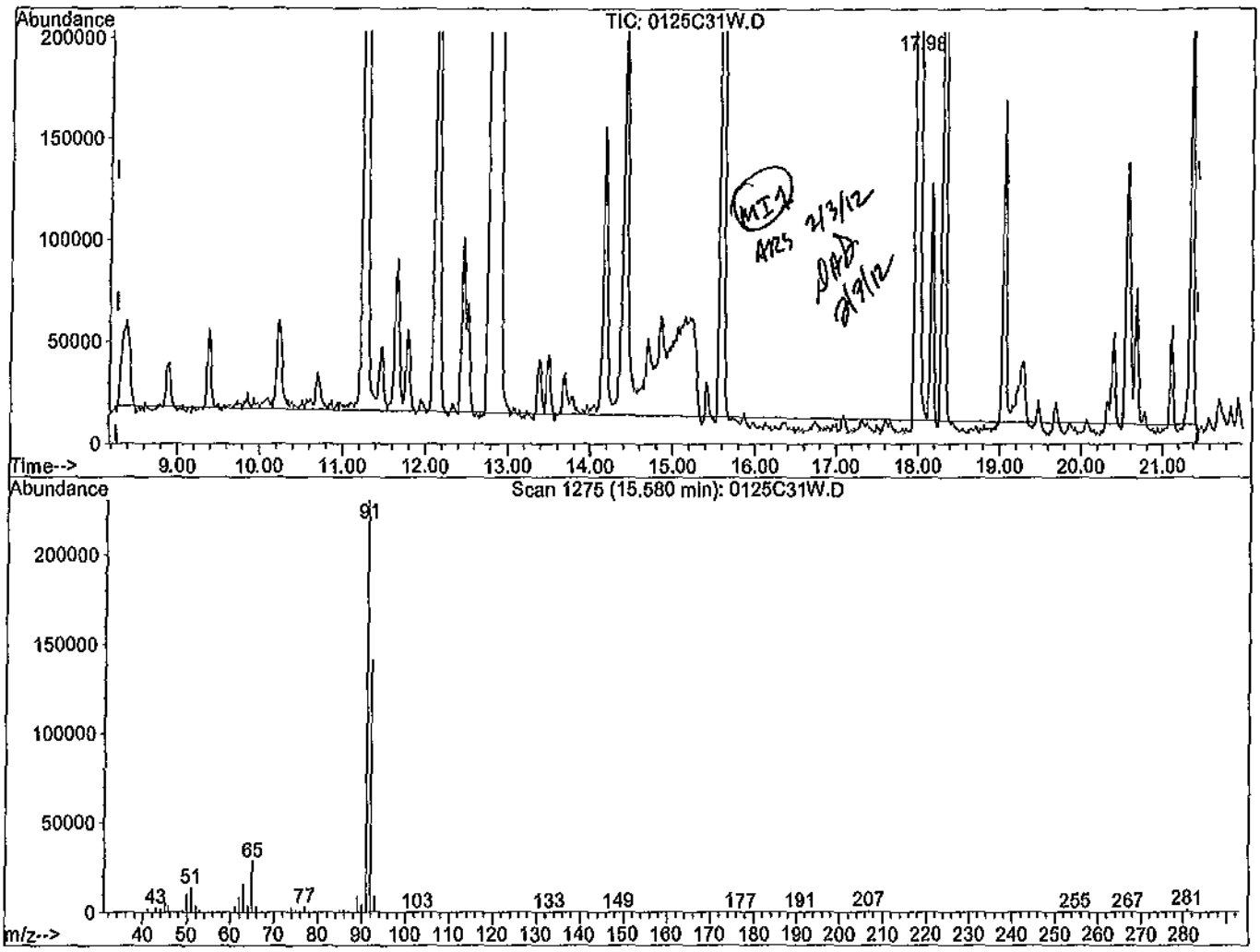
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



TIC: 0125C31W.D

(2) Gasoline (TMHB)

15.58min 27.4179ppb m

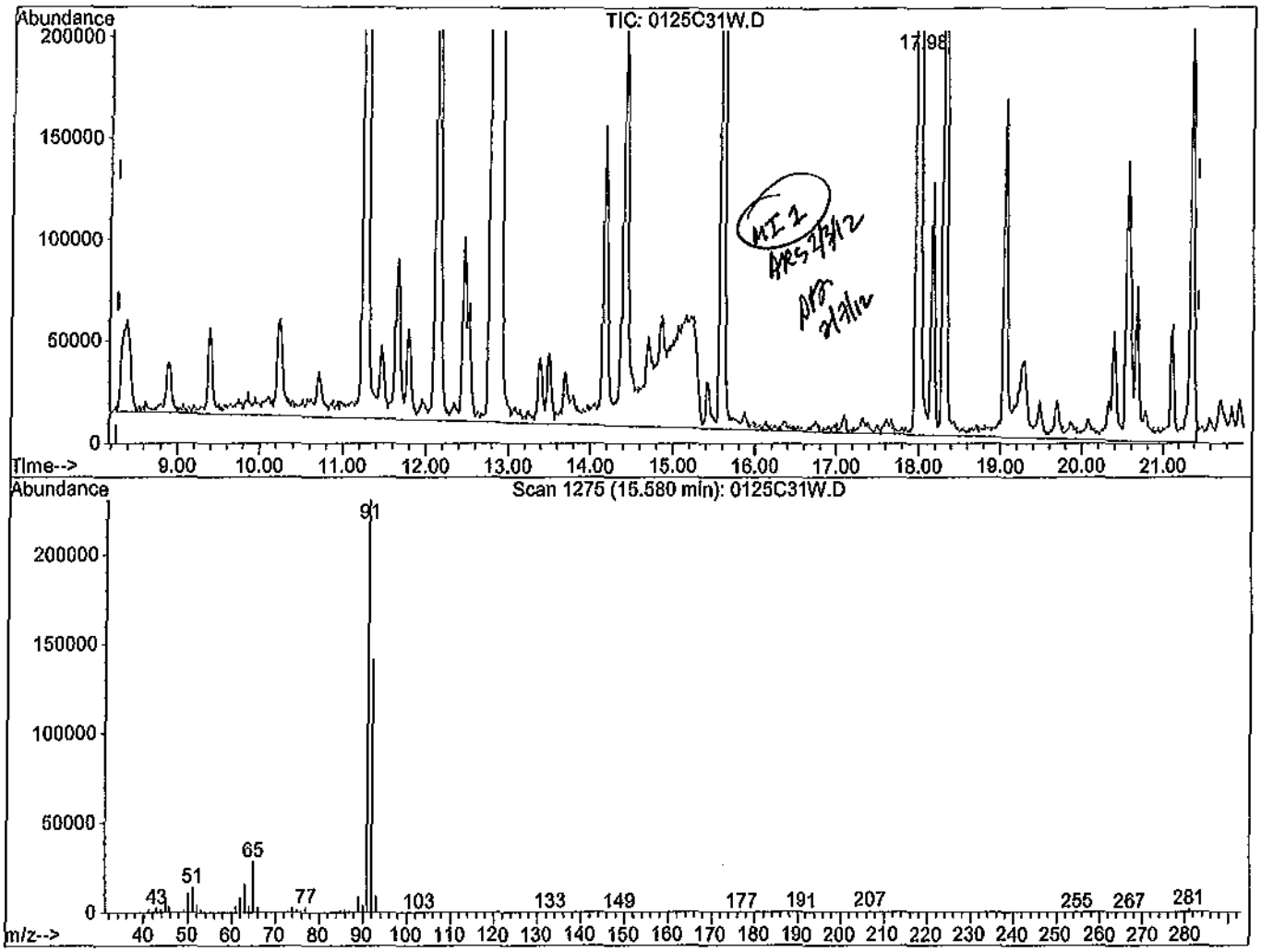
response 19945363

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.64#
0.00	0.00	1.85#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:13 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



TIC: 0125C31W.D

(2) Gasoline (TMHB)

17.98min 94.0404ppb m

response 26257782

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.48#
0.00	0.00	1.40#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:09 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1085223	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1323772	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1382634	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	46451061m	304.86153	ppb	100

(#) = qualifier out of range (m) = manual integration
0125C32W.D CGAS.M Fri Feb 03 12:19:33 2012 Page 1

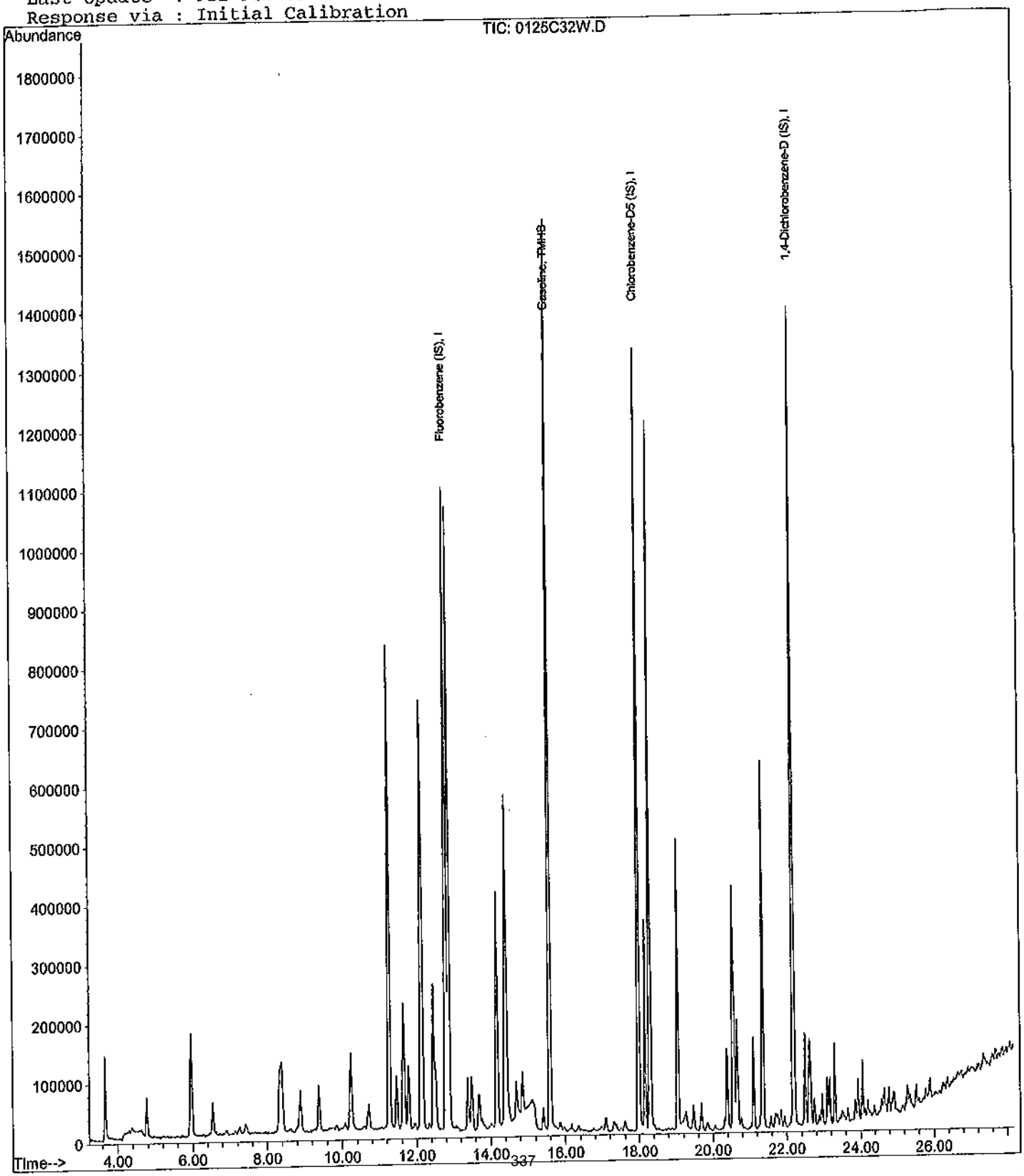
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D
Acq On : 26 Jan 12 21:24
Sample : Vol. Std. 01-26-12@300ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:09 2012 Quant Results File: CGAS.RES

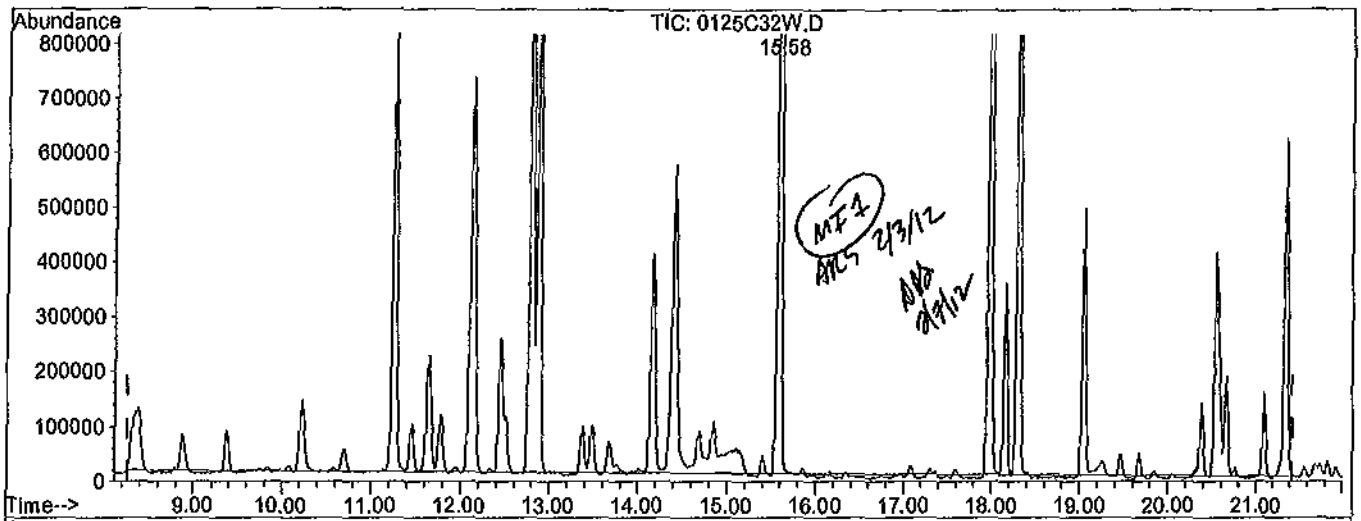
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

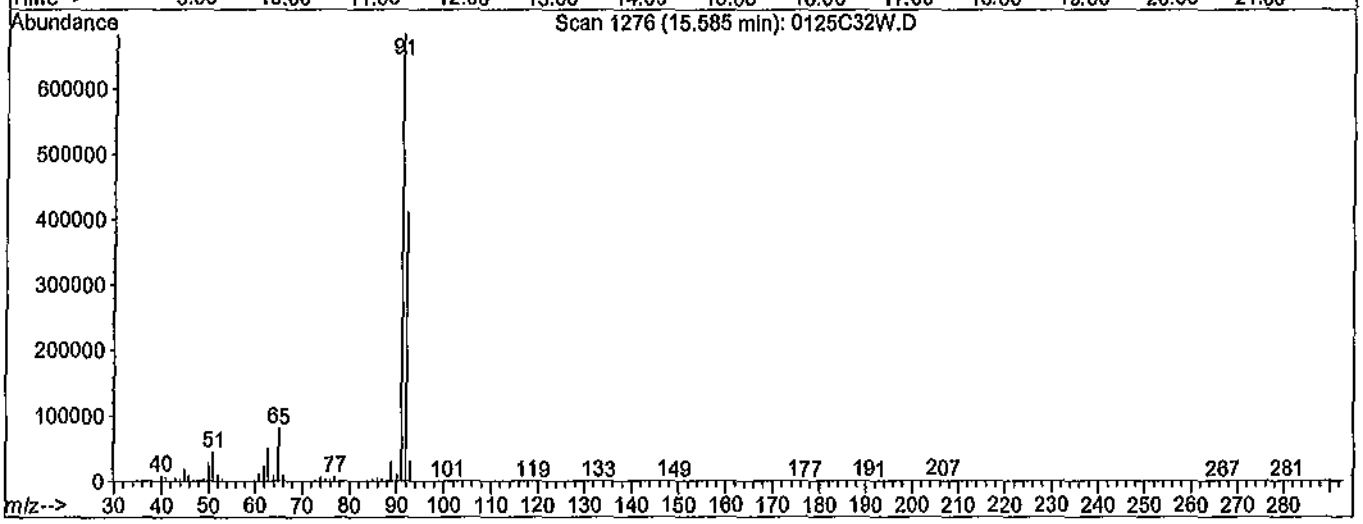


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C32W.D

(2) Gasoline (TMHB)

15.58min 245.6055ppb m

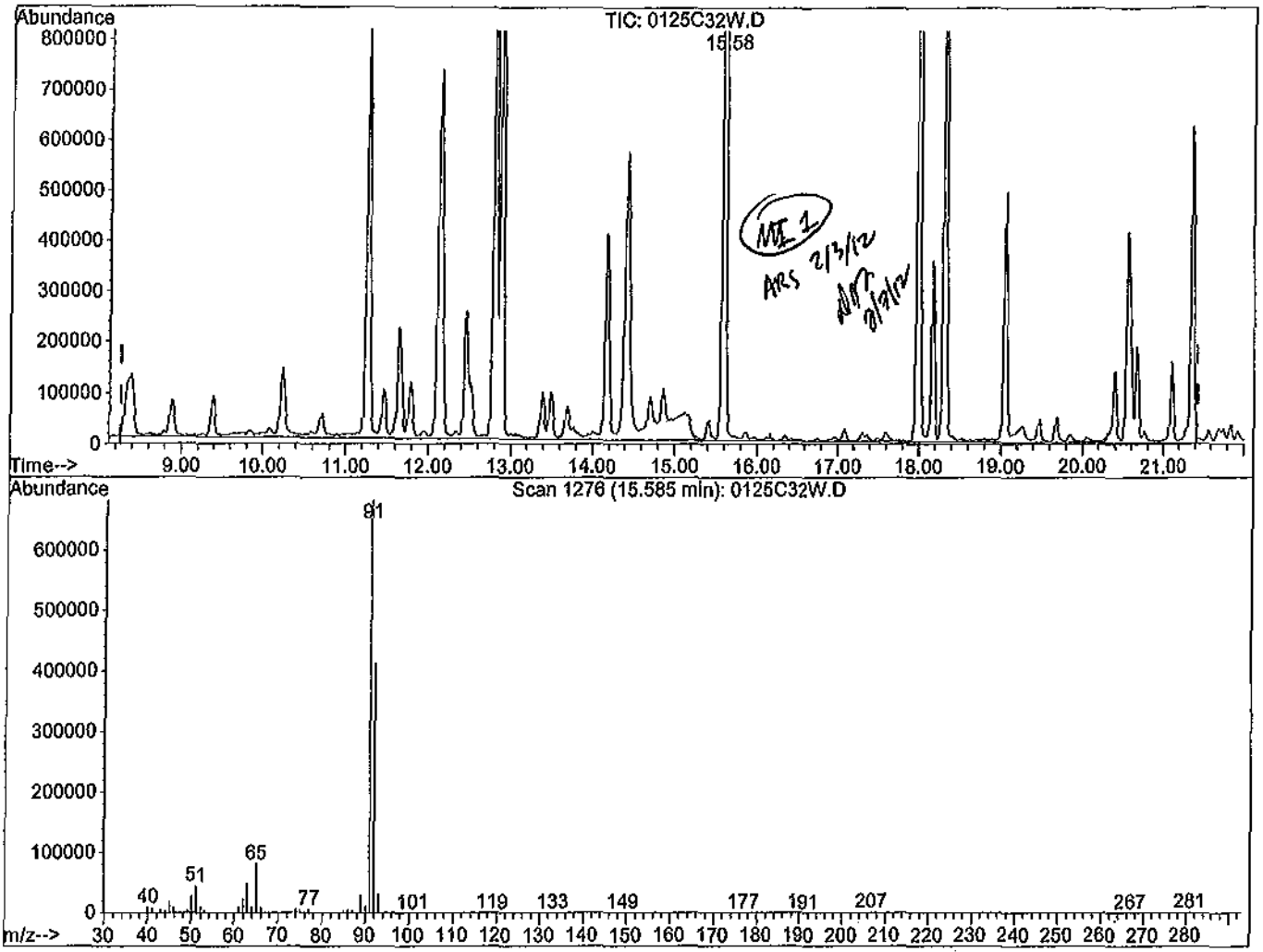
response 40810111

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.33#
0.00	0.00	0.94#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:09 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



TIC: 0125C32W.D

(2) Gasoline (TMHB)

15.58min 304.8615ppb m

response 46451061

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.29#
0.00	0.00	0.83#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:07 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1115516	25.00000 ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1310876	25.00000 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.19	TIC	1420552	25.00000 ppb	0.00
System Monitoring Compounds					
Target Compounds					Qvalue
2) Gasoline	15.58	TIC	72391801m	556.70838 ppb	100

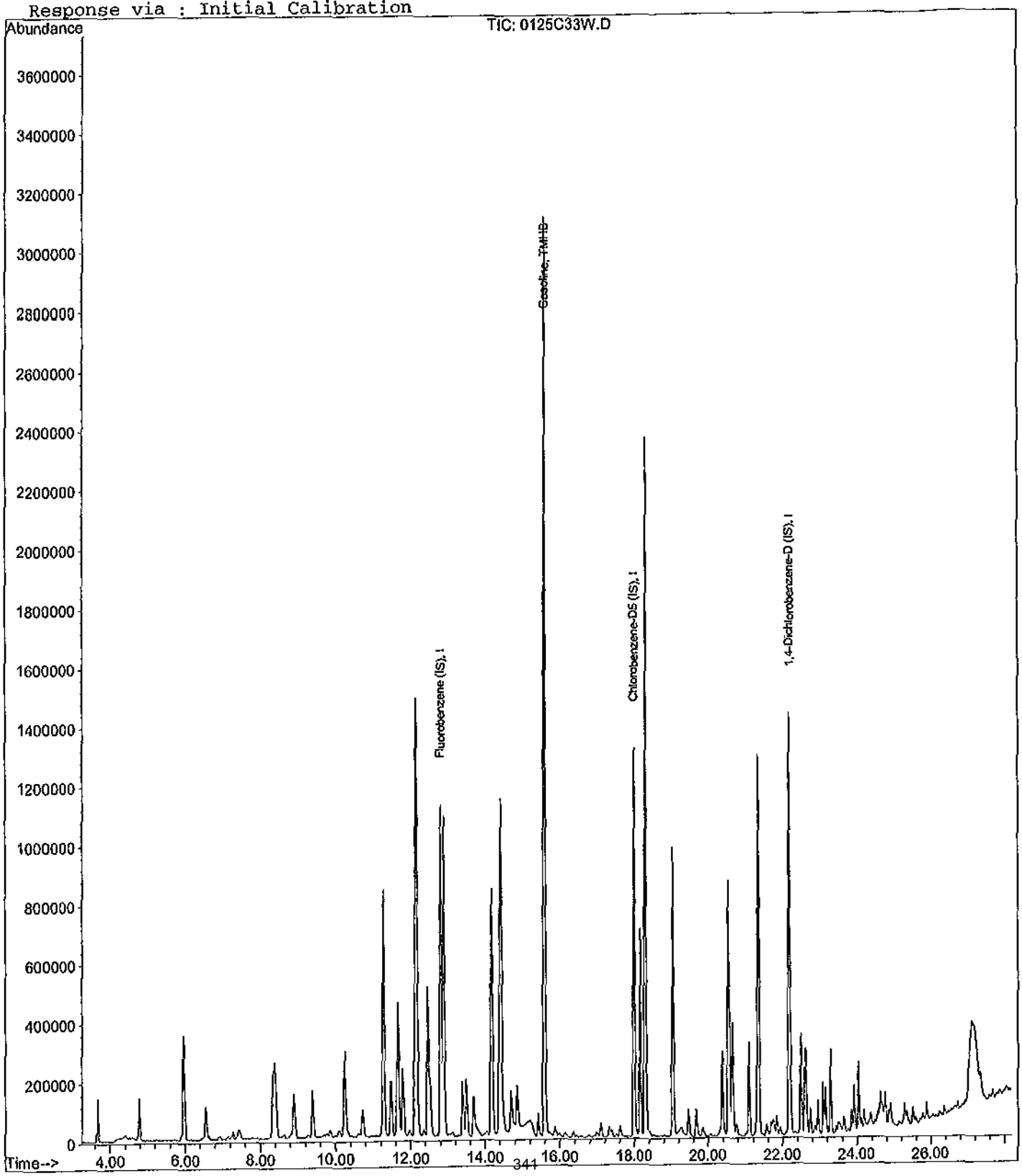
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D
Acq On : 26 Jan 12 22:01
Sample : Vol. Std. 01-26-12@600ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:07 2012 Quant Results File: CGAS.RES

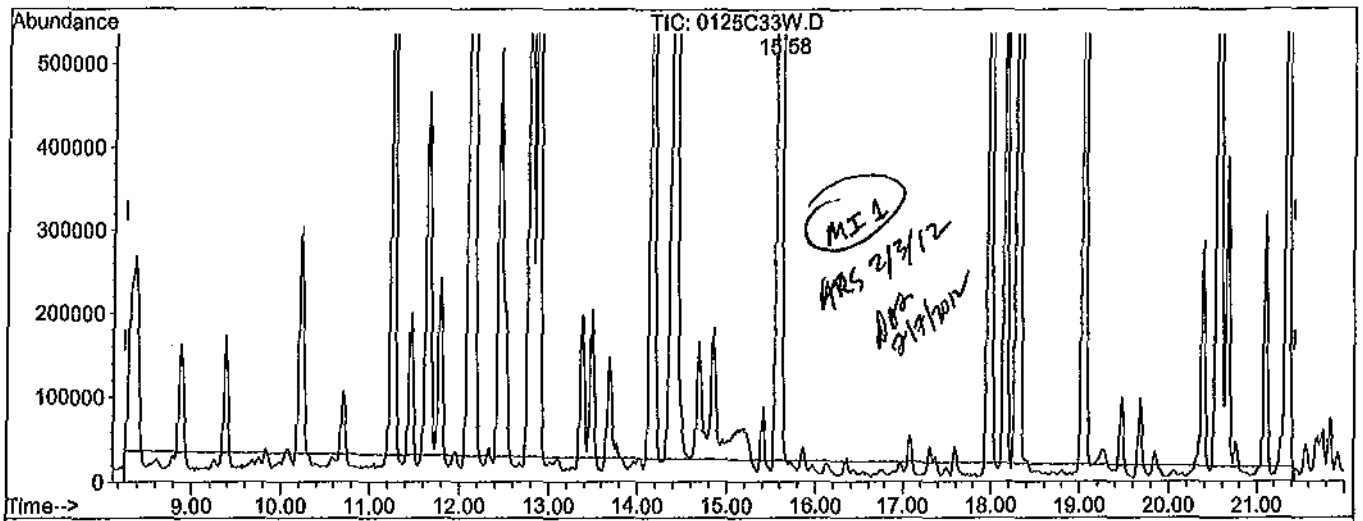
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

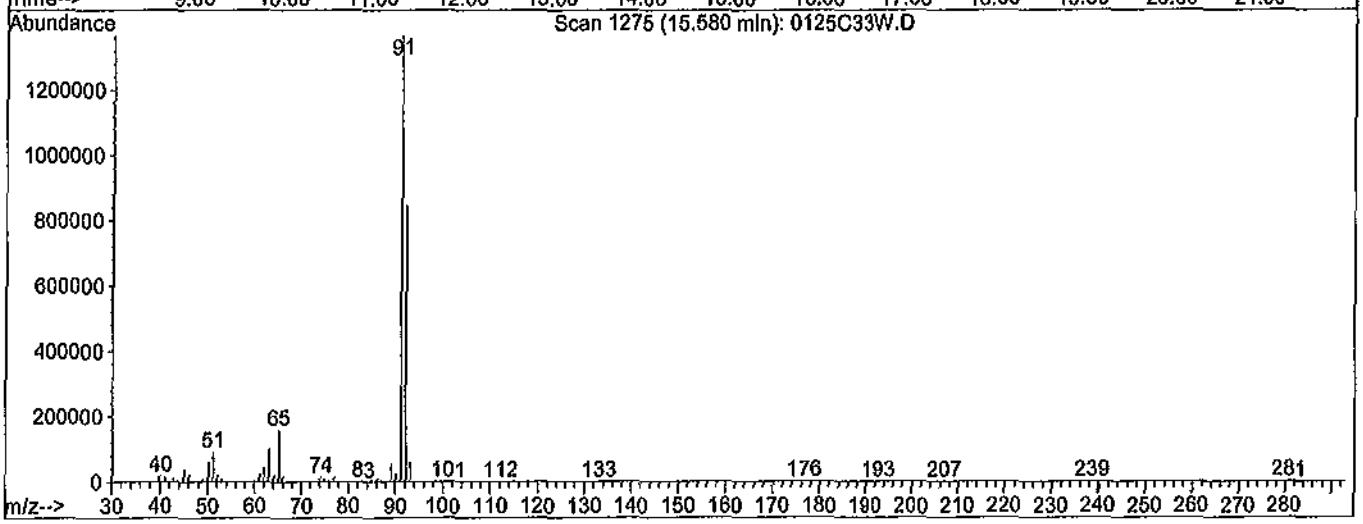


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C33W.D

(2) Gasoline (TMHB)

15.58min 556.7084ppb m

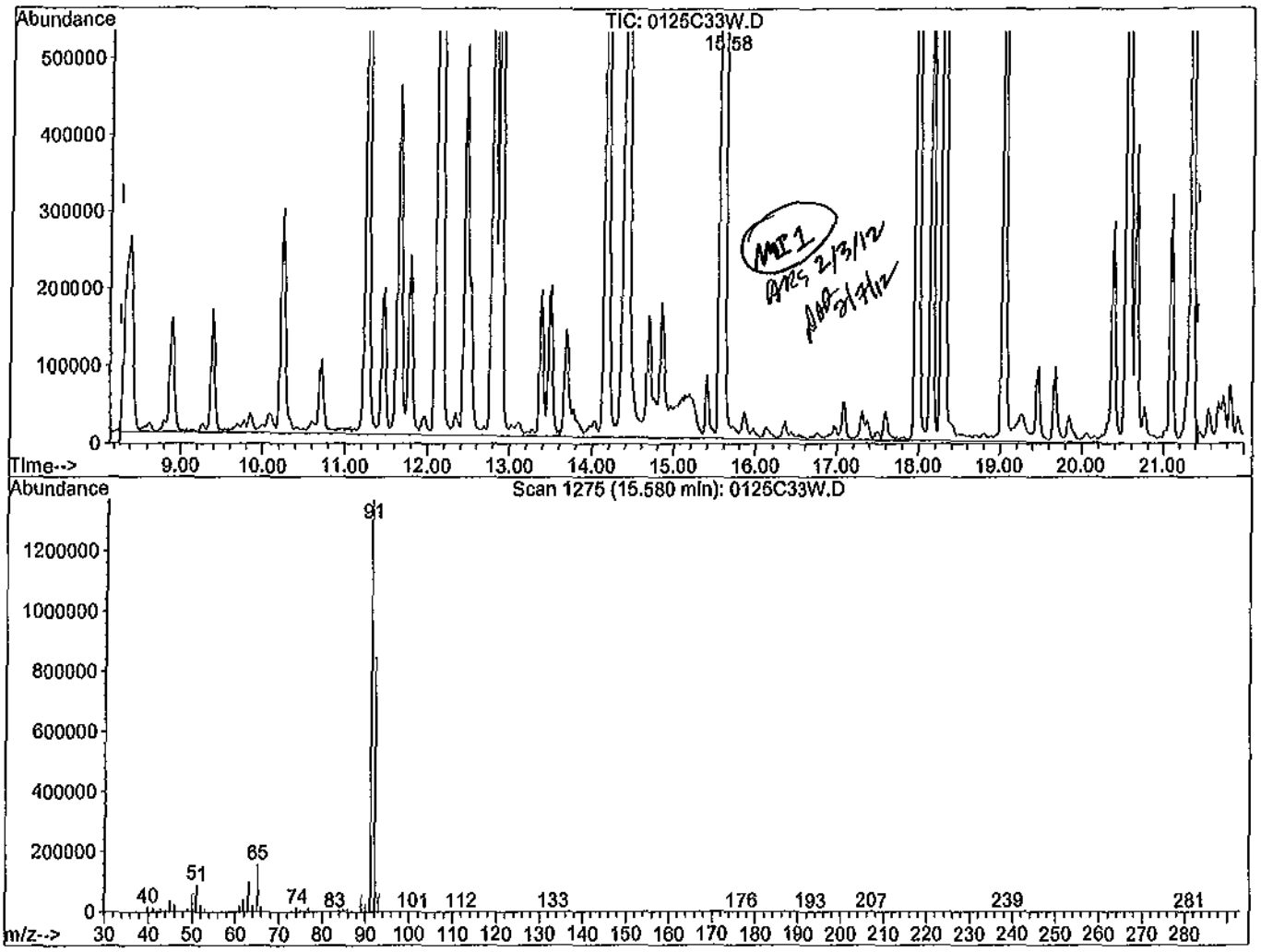
response 72391801

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.18#
0.00	0.00	0.53#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:16 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



TIC: 0125C33W.D

(2) Gasoline (TMHB)

15.58min 621.4121ppb m

response 78723288

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.16#
0.00	0.00	0.49#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:17 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1172096	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1436710	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1528793	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	102155823m	810.48263	ppb	100

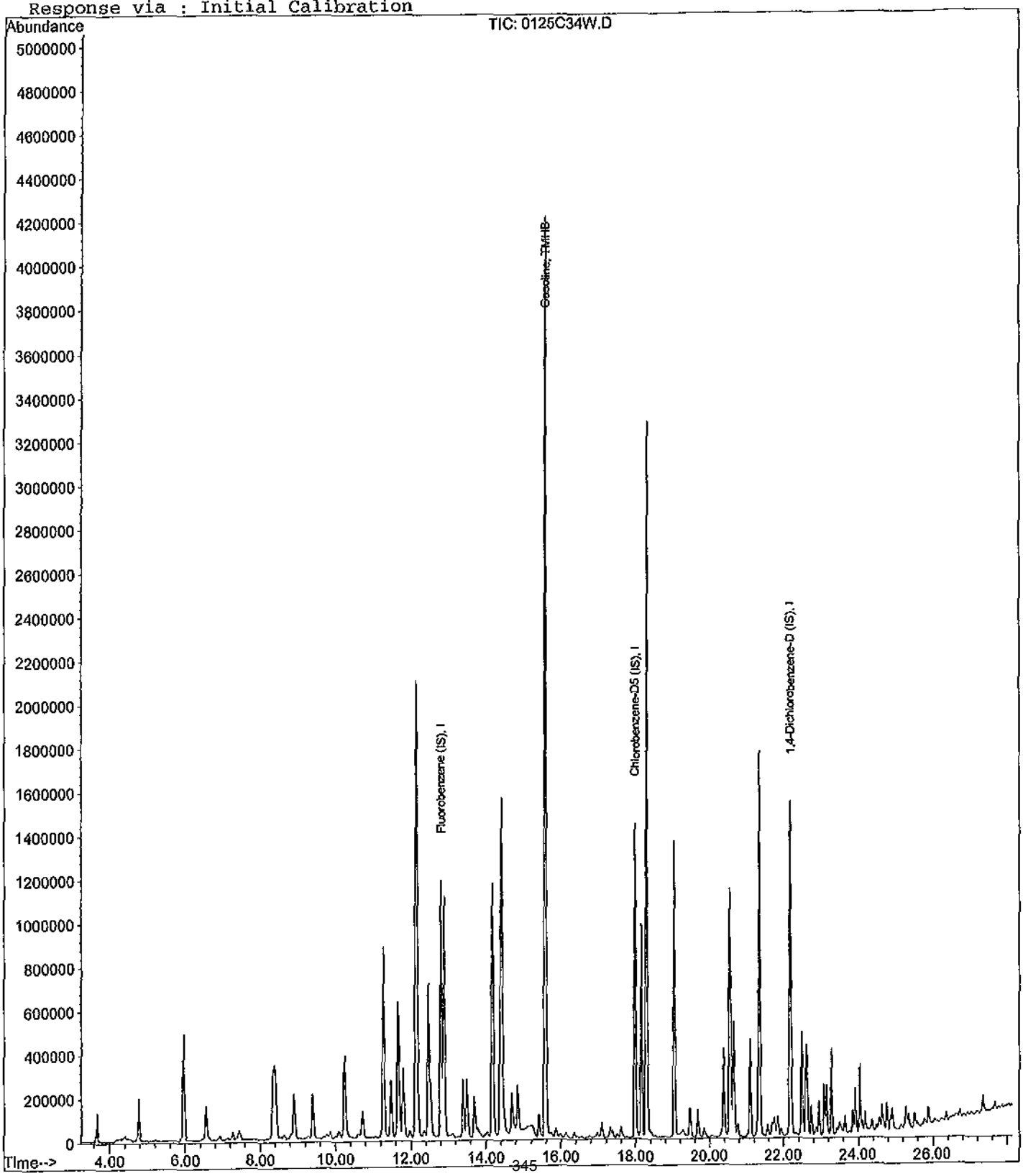
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D
Acq On : 26 Jan 12 22:38
Sample : Vol. Std. 01-26-12@800ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:17 2012 Quant Results File: CGAS.RES

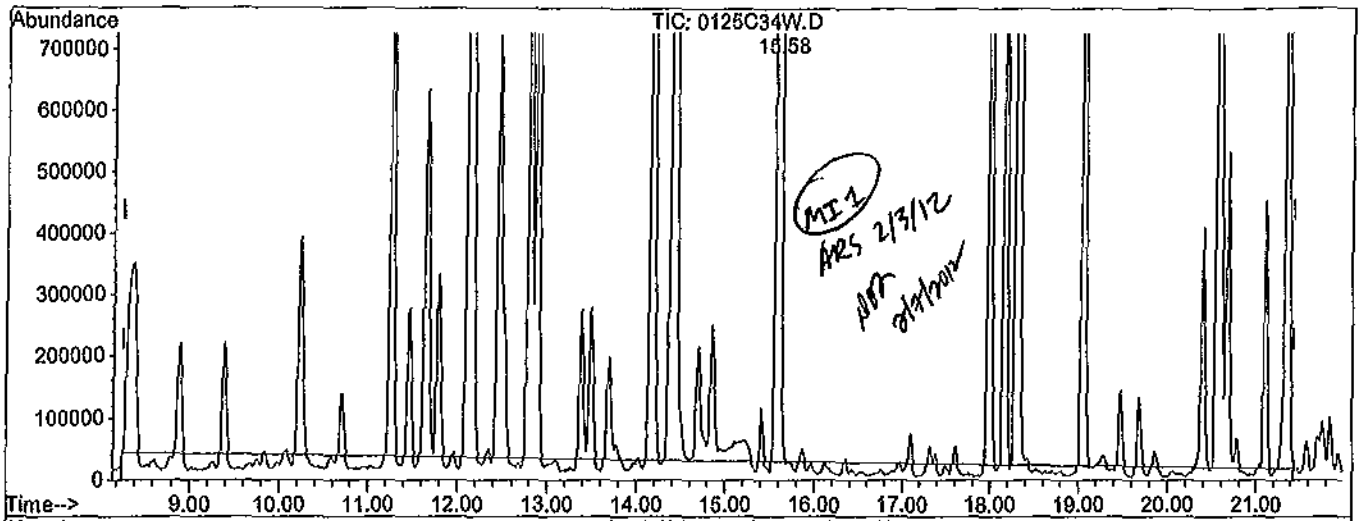
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

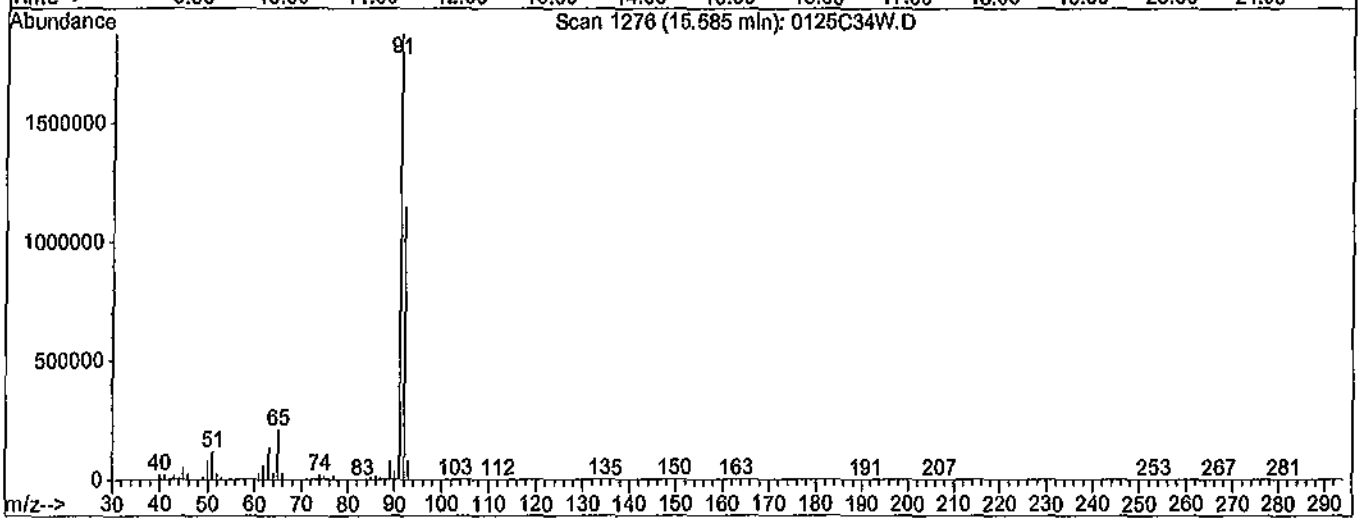


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C34W.D

(2) Gasoline (TMHB)

15.58min 730.0328ppb m

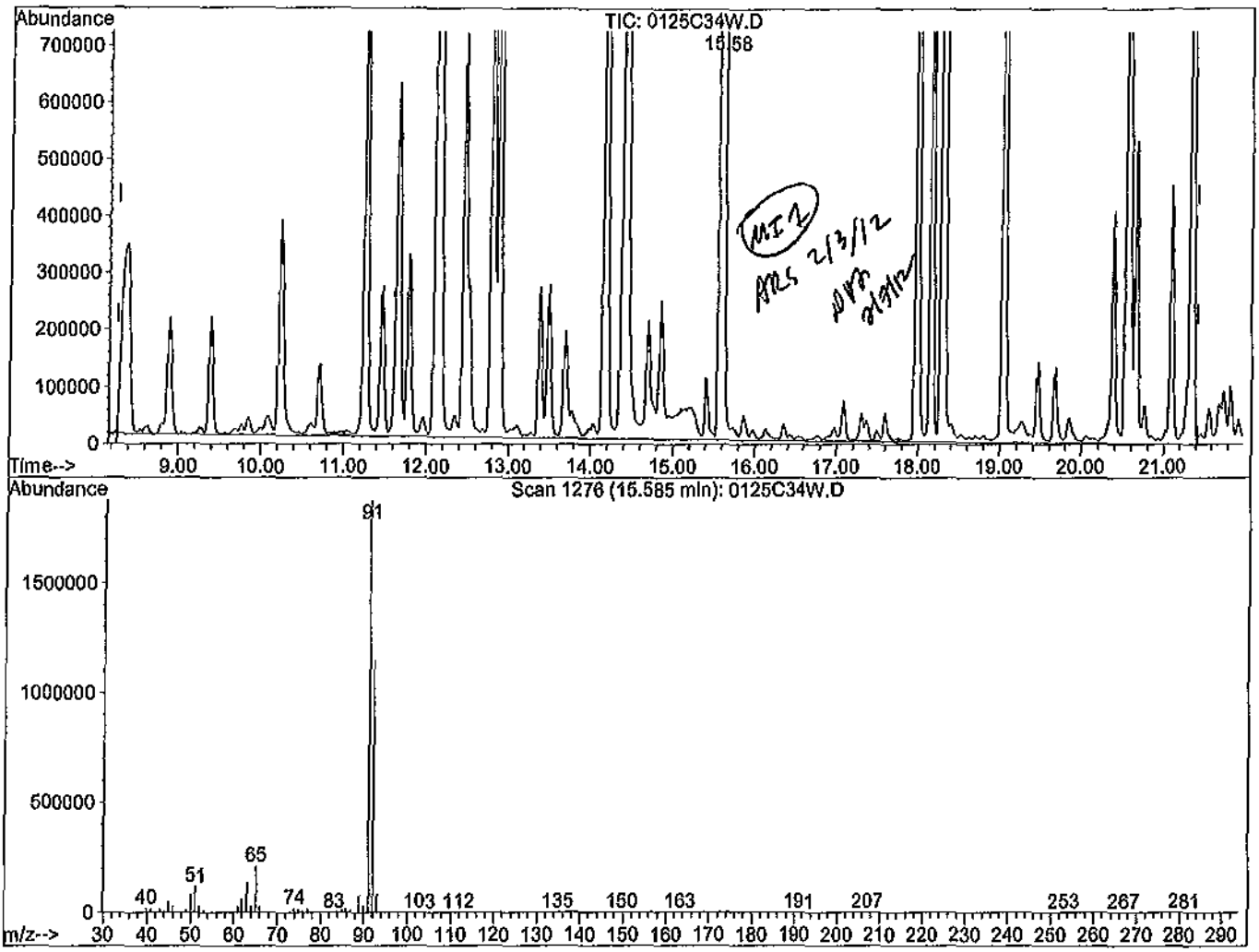
response 93884232

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.14#
0.00	0.00	0.44#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:17 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



TIC: 0125C34W.D

(2) Gasoline (TMHB)

15.58min 810.4826ppb m

response 102155823

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 (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:18 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1232092	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1442206	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1630956	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	129481006m	1014.92580	ppb	100

(#) = qualifier out of range (m) = manual integration
0125C35W.D CGAS.M Fri Feb 03 12:19:45 2012 Page 1

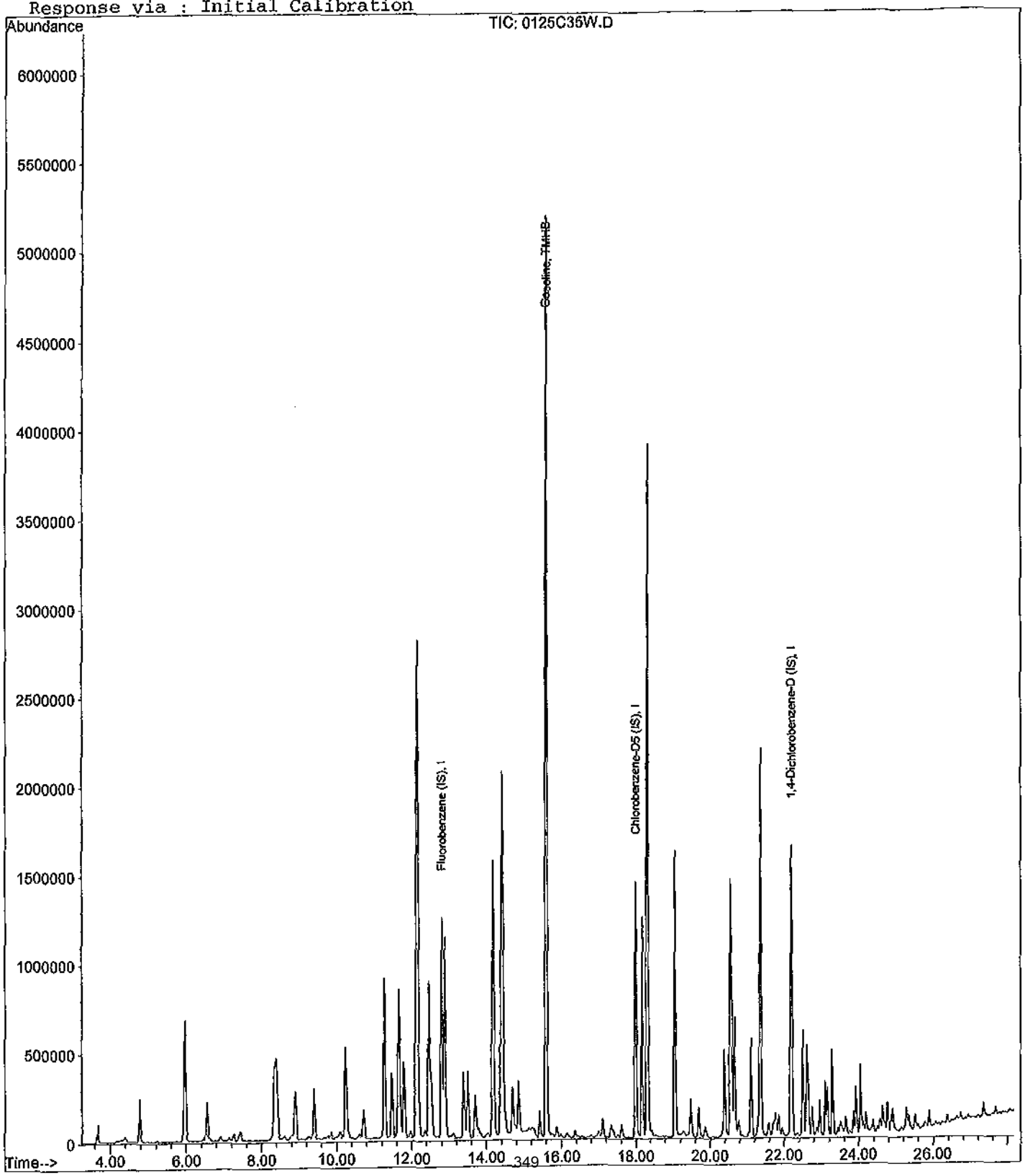
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D
Acq On : 26 Jan 12 23:15
Sample : Vol. Std. 01-26-12@1000ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:18 2012 Quant Results File: CGAS.RES

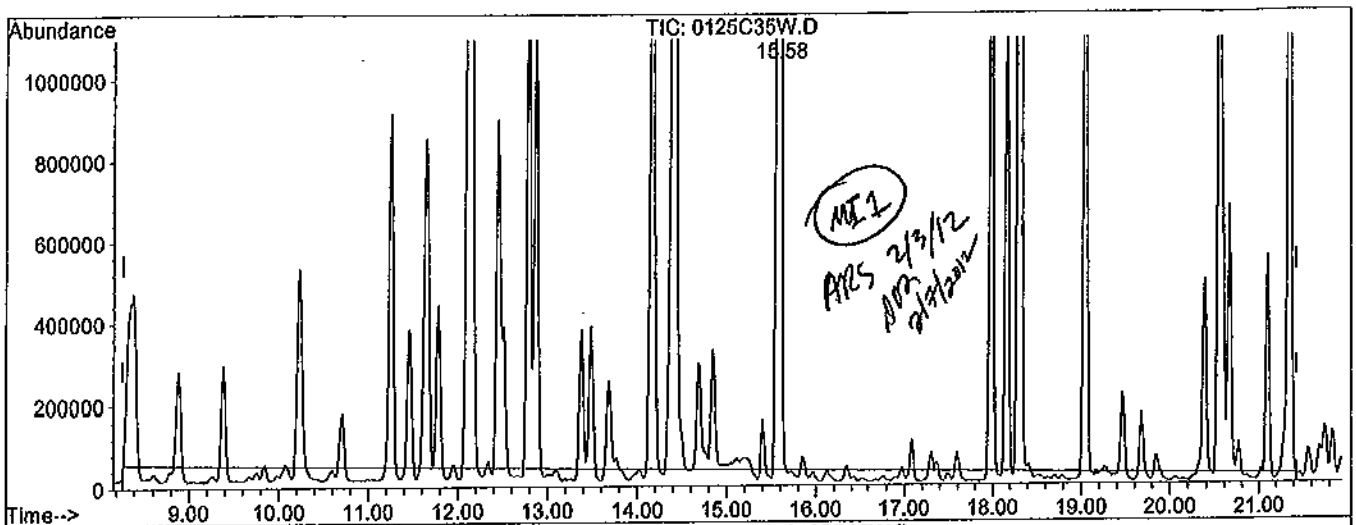
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

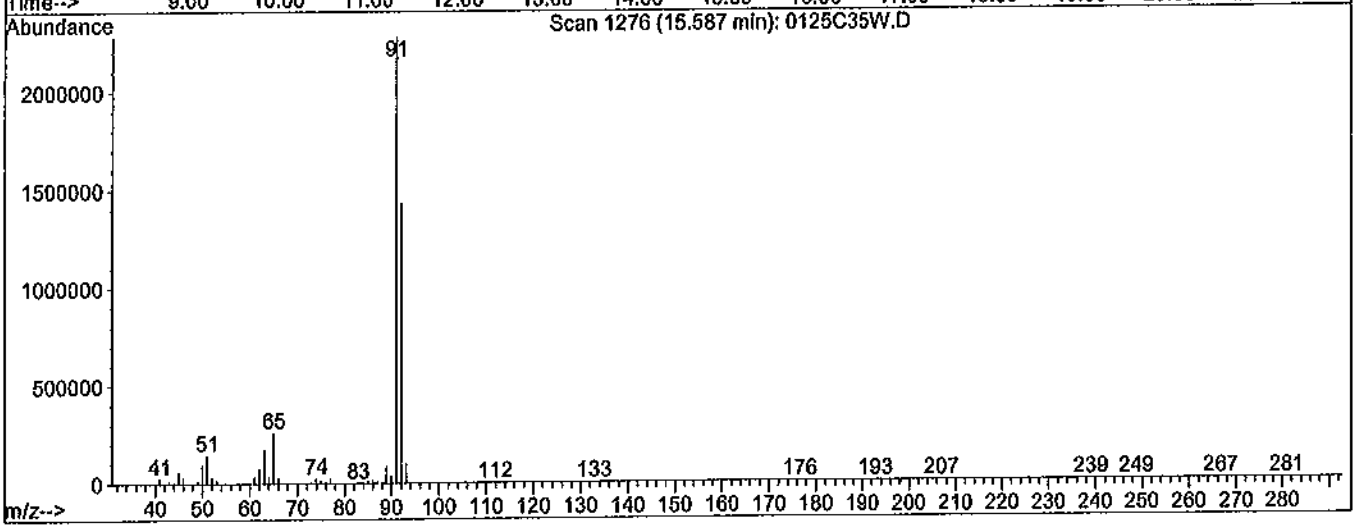


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C35W.D

(2) Gasoline (TMHB)

15.58min 923.0372ppb m

response 119549717

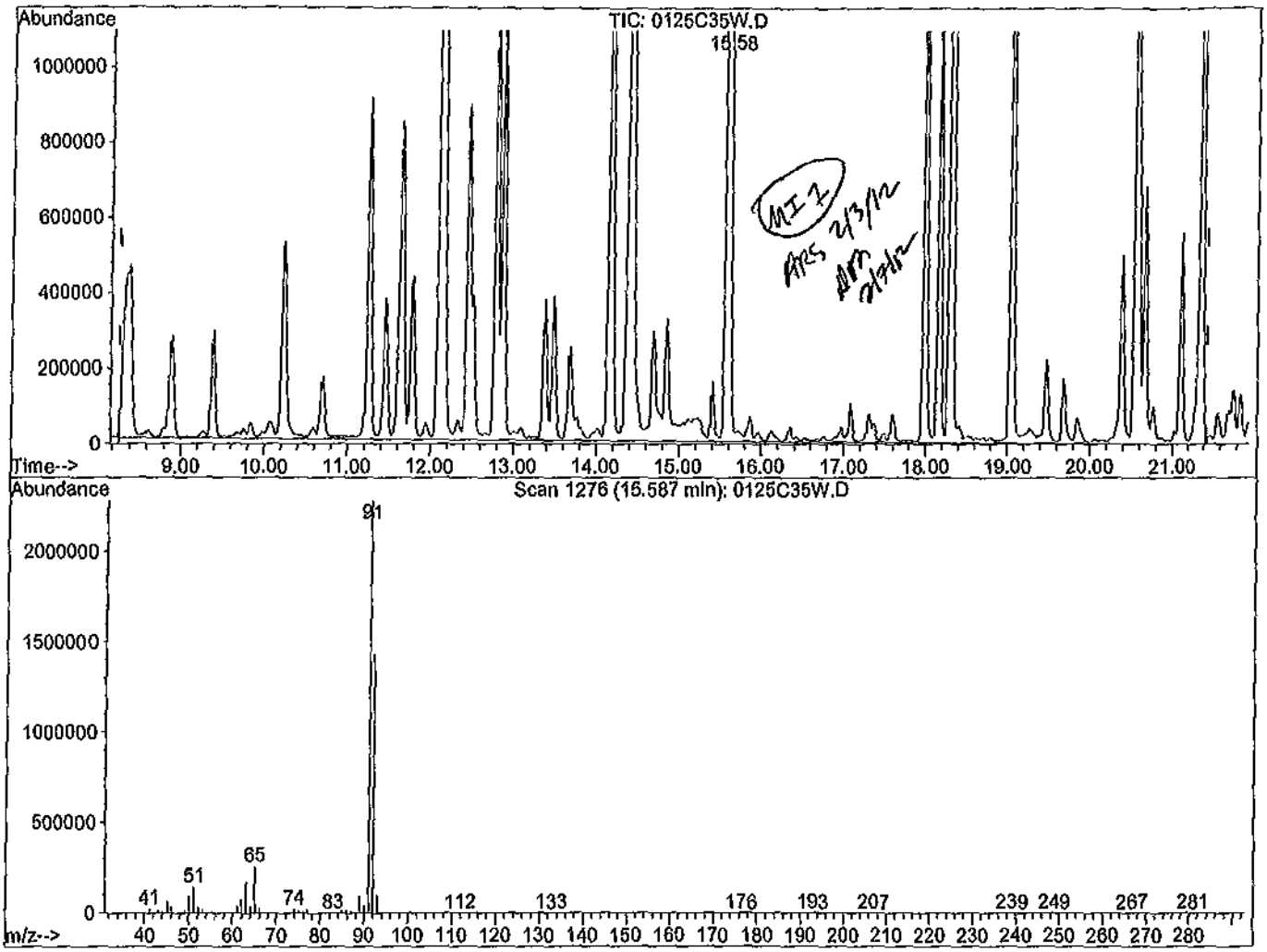
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.12#
0.00	0.00	0.35#
0.00	0.00	0.00

0125C35W.D CGAS.M Fri Feb 03 12:17:55 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:18 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



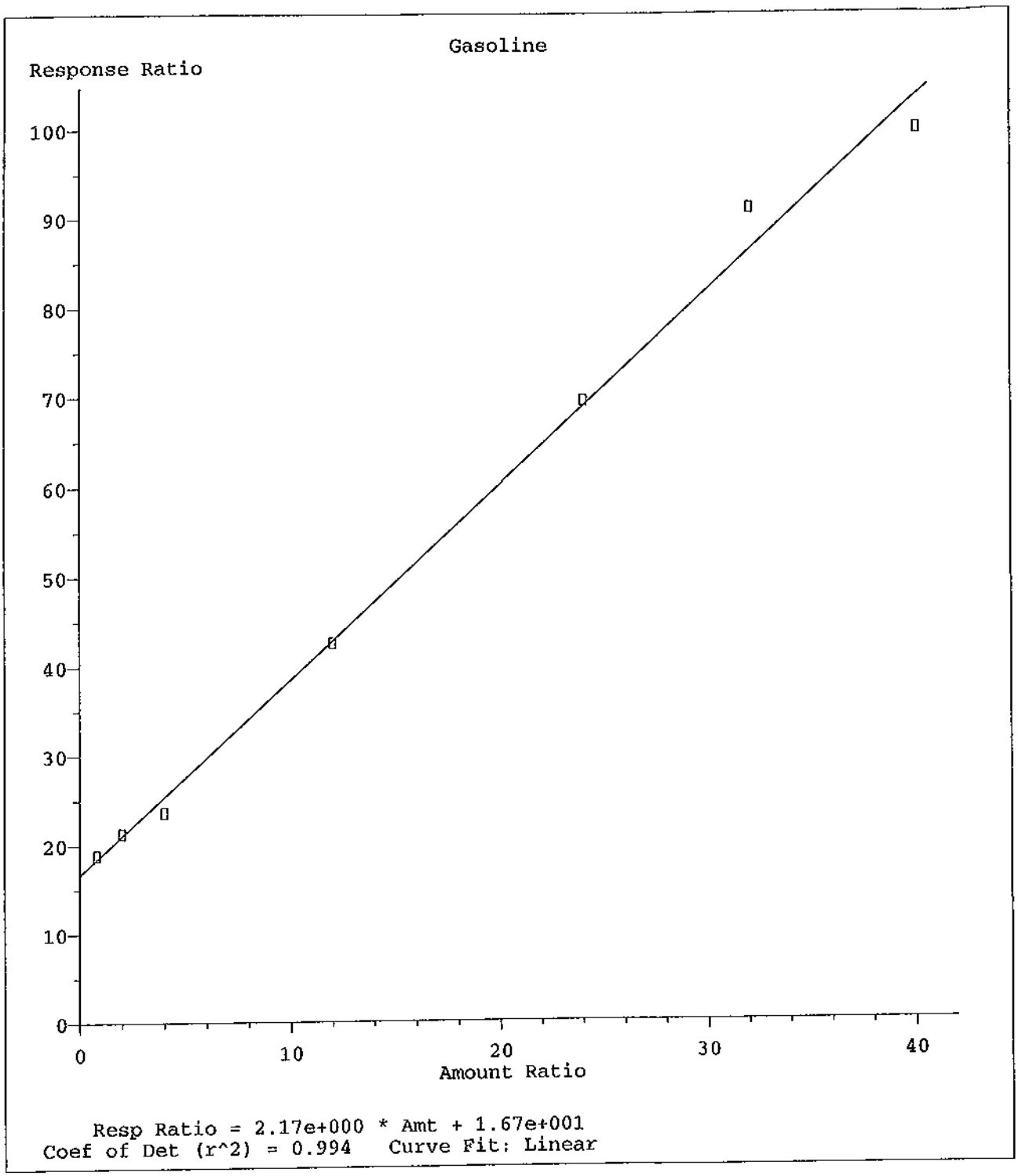
TIC: 0125C35W.D

(2) Gasoline (TMHB)

15.58min 1014.9258ppb m

response 129481006

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.11#
0.00	0.00	0.33#
0.00	0.00	0.00



Method Name: M:\CHICO\DATA\C120125\CGAS.M
Calibration Table Last Updated: Tue Feb 07 09:36:43 2012

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66795
Date Analyzed: 01/27/12
Instrument: Chico
Initial Cal. Date: 01/25/12
Data File: 0125C38W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline	7.410	3.556	52	TMHBL	0.36
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
9							
10							
11							
12							
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32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			52.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:37 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1138336	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1375303	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1433410	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	48578324m	298.92978	ppb	100

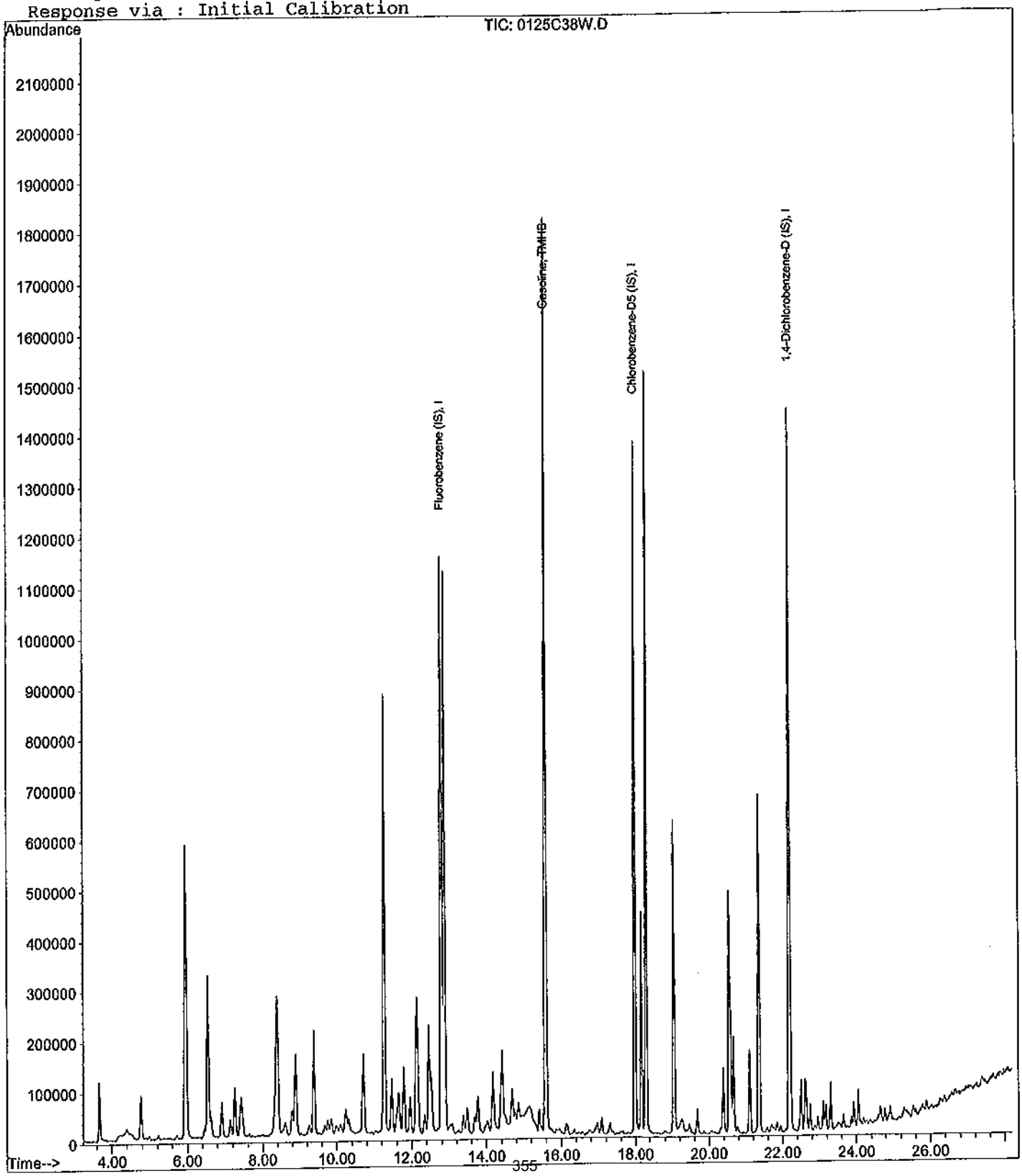
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D
Acq On : 27 Jan 12 1:06
Sample : Second Source 01-26-12
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:37 2012 Quant Results File: CGAS.RES

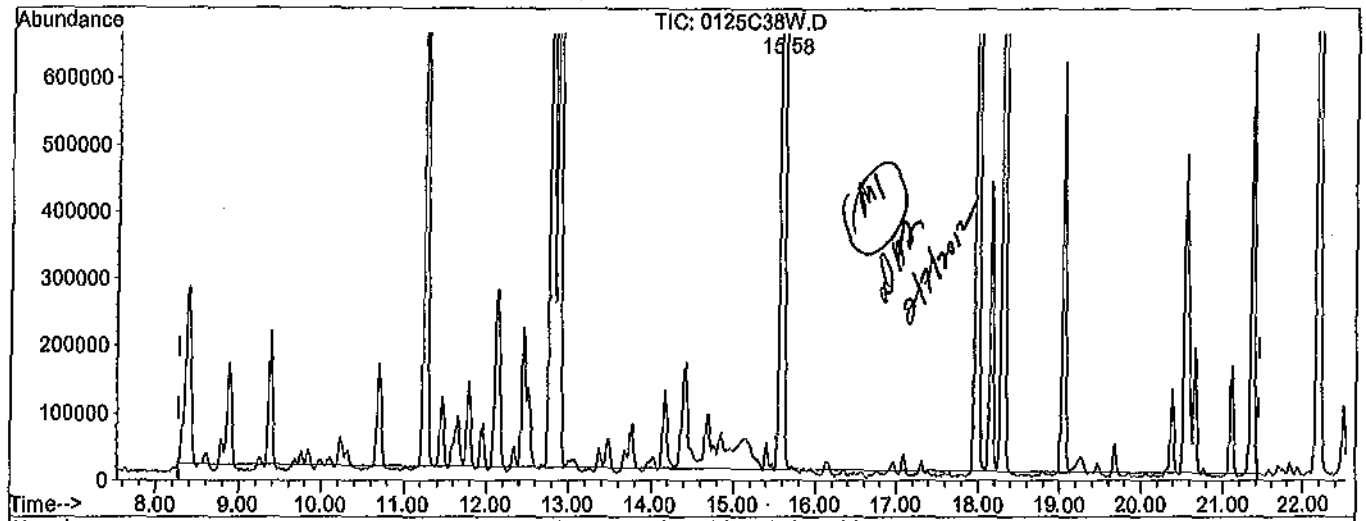
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

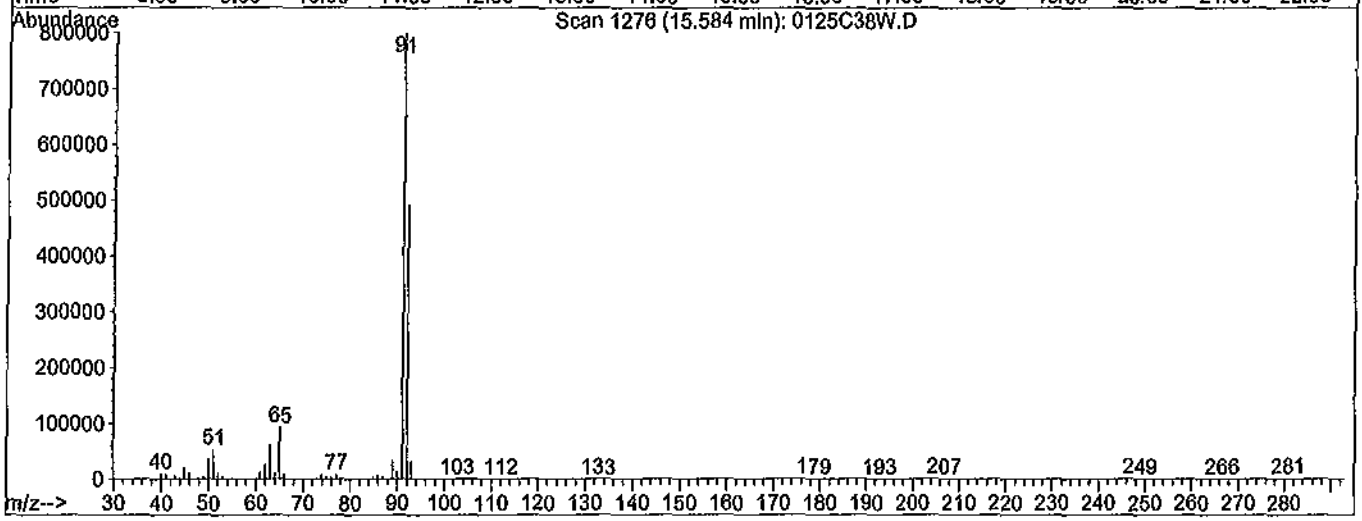


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:37 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0125C38W.D

(2) Gasoline (TMHB)

15.58min 202.8575ppb m

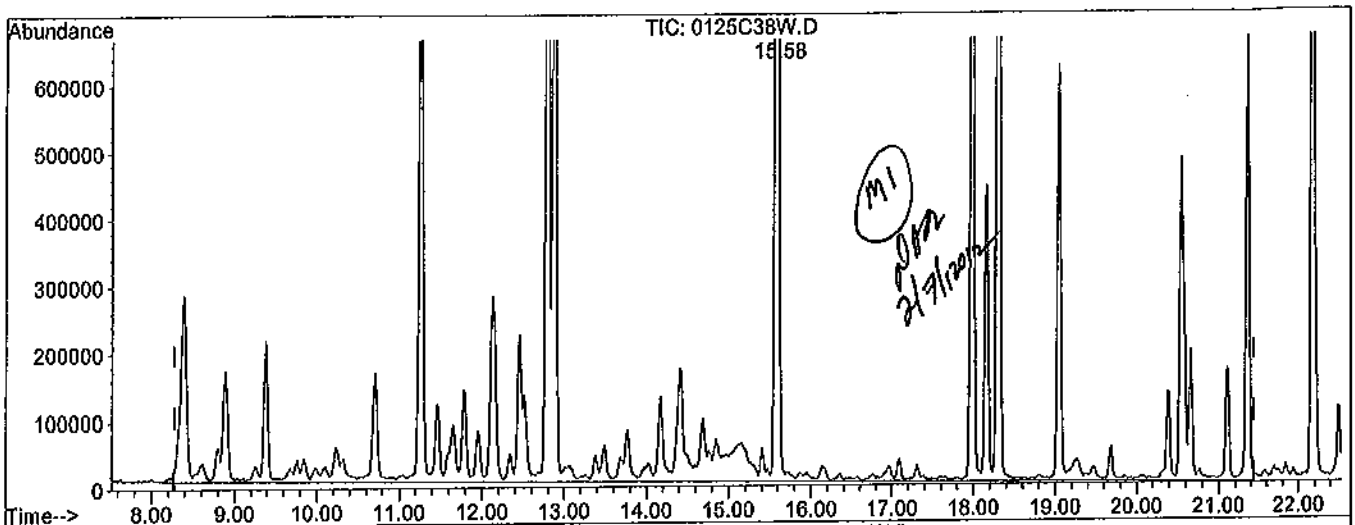
response 39074056

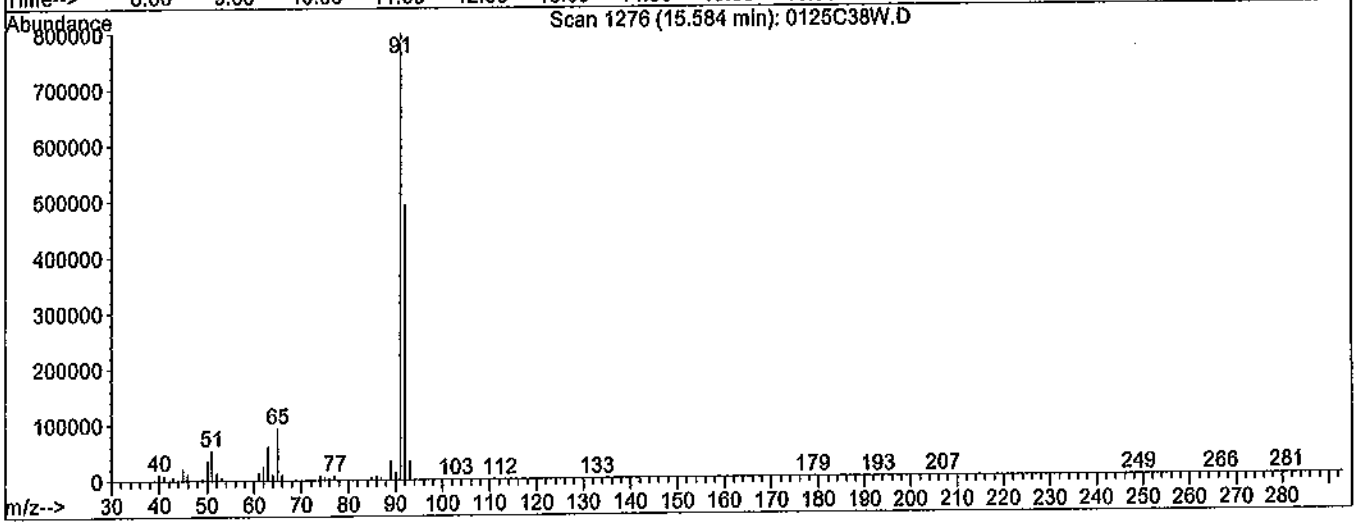
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.34#
0.00	0.00	1.04#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:37 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0125C38W.D

(2) Gasoline (TMHB)

15.58min 298.9298ppb m

response 48578324

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.28#
0.00	0.00	0.84#
0.00	0.00	0.00

0125C38W.D CGAS.M Tue Feb 07 09:37:34 2012

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66795
Date Analyzed: 01/27/12
Instrument: Chico
Initial Cal. Date: 01/25/12
Data File: 0127C05W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline	7.410	3.910	47	TMHBL	16
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
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33							
34							
35							
36							
37							
38							
39							
40							
		Average			47.0		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C05W.D Vial: 1
Acq On : 27 Jan 12 12:32 Operator: RS, ARS
Sample : CCV gas 300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:39 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1173654	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1400160	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1488879	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	55064618m	347.74562	ppb	100

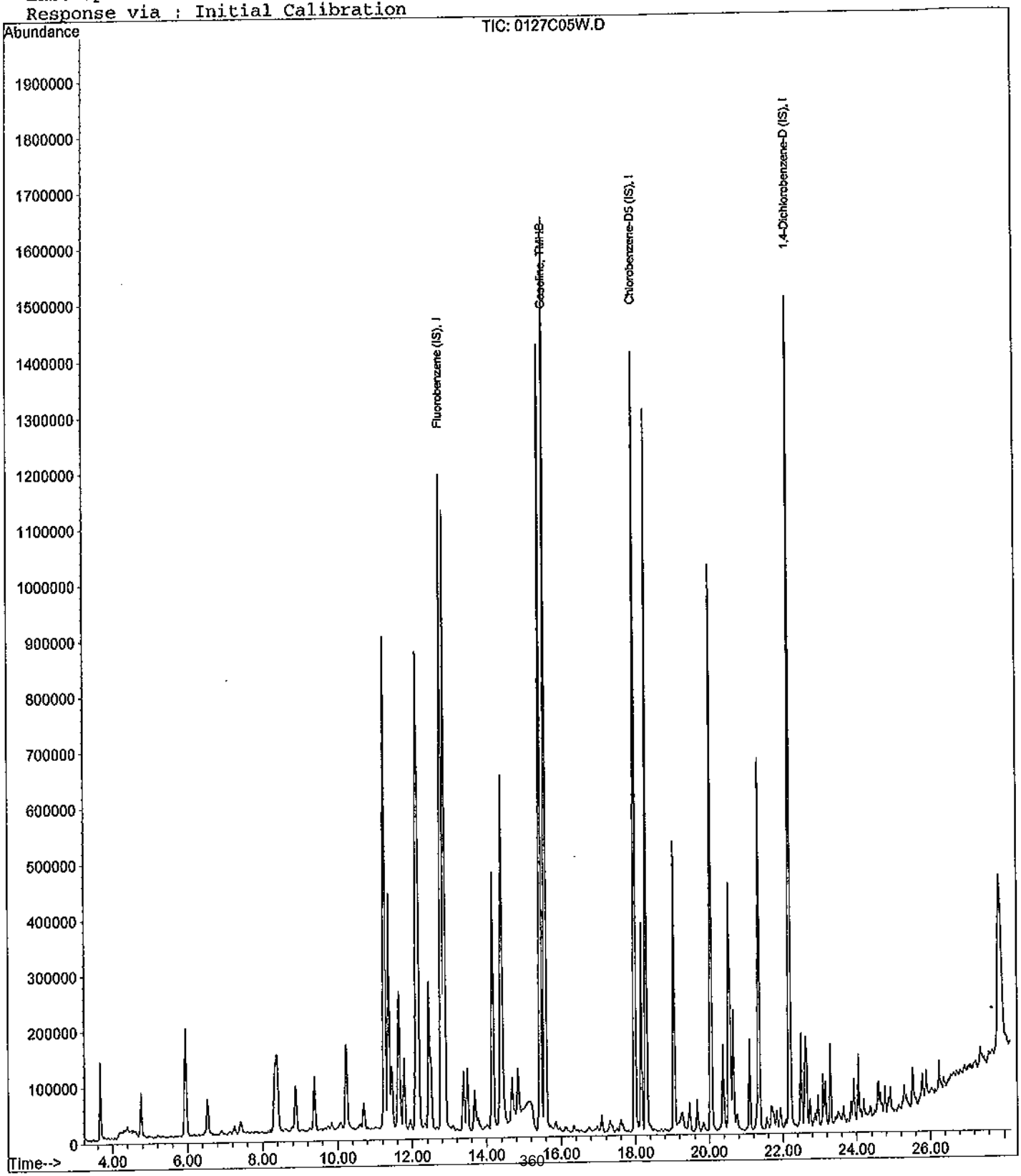
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C05W.D
Acq On : 27 Jan 12 12:32
Sample : CCV gas 300ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:39 2012 Quant Results File: CGAS.RES

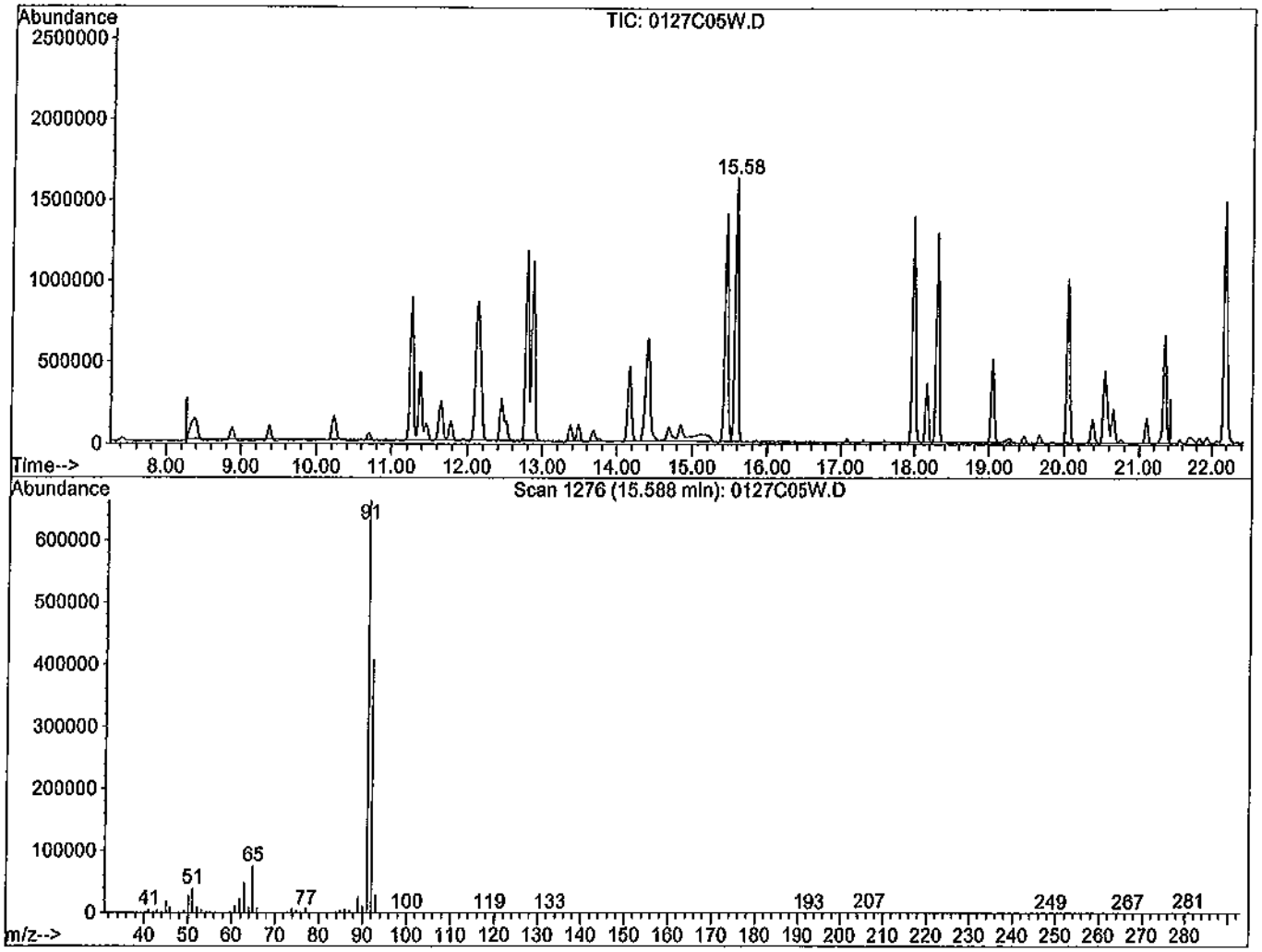
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C05W.D Vial: 1
Acq On : 27 Jan 12 12:32 Operator: RS, ARS
Sample : CCV gas 300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 9 12:54 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0127C05W.D

(2) Gasoline (TMHB)

15.58min 347.7456ppb m

response 55084618

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.27#
0.00	0.00	0.76#
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: **120127W-53807 - 163743**
Batch ID: #86RHB-120127AC

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	01/27/12	01/27/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/27/12	01/27/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/27/12	01/27/12
BLANK	1,2,4-TRICHLOROBENZENE	0.28 J	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	01/27/12	01/27/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	1,3-DICHLOROBENZENE	0.12 J	1.0	0.22	0.11	ug/L	01/27/12	01/27/12
BLANK	1,3-DICHLOROPROPENE, TOTA	0.36 U	1.0	0.36	0.18	ug/L	01/27/12	01/27/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/27/12	01/27/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/27/12	01/27/12
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/27/12	01/27/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/27/12	01/27/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/27/12	01/27/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/27/12	01/27/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/27/12	01/27/12
BLANK	HEXACHLOROBUTADIENE	0.26 J	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C09
Instrument: Chico
Sequence: C120125
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/09/12 11:38:41 AM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120127W-53807 - 163743**
Batch ID: #86RHB-120127AC

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	01/27/12	01/27/12
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	01/27/12	01/27/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/27/12	01/27/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	SURROGATE: 1,2-DICHLOROET	106	70-120			%	01/27/12	01/27/12
BLANK	SURROGATE: 4-BROMOFLUOR	99.1	75-120			%	01/27/12	01/27/12
BLANK	SURROGATE: DIBROMOFLUOR	102	85-115			%	01/27/12	01/27/12
BLANK	SURROGATE: TOLUENE-D8 (S)	103	85-120			%	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C09
Instrument: Chico
Sequence: C120125
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/09/12 11:38:41 AM

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C09W.D Vial: 1
Acq On : 27 Jan 12 15:01 Operator: RS, ARS
Sample : 120127A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 30 16:52 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	96	575259	25.00000 ppb	0.02
54) Chlorobenzene-D5 (IS)	17.98	117	477248	25.00000 ppb	0.01
70) 1,4-Dichlorobenzene-D (IS)	22.18	152	253632	25.00000 ppb	0.01
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.37	111	378041	24.68658 ppb	0.01
Spiked Amount 24.119			Recovery = 102.354%		
37) 1,2-DCA-D4(S)	12.18	65	268532	24.30448 ppb	0.02
Spiked Amount 22.874			Recovery = 106.251%		
55) Toluene-D8(S)	15.45	98	1536986	25.48458 ppb	0.02
Spiked Amount 24.755			Recovery = 102.949%		
63) 4-Bromofluorobenzene(S)	20.05	95	559559	26.54717 ppb	0.01
Spiked Amount 26.777			Recovery = 99.140%		
Target Compounds					Qvalue
25) Vinyl Acetate	9.38	43	2108	0.85726 ppb #	81
36) 2,2,4-Trimethylpentane	12.12	57	36860	0.94980 ppb #	89
78) 4-Ethyltoluene	20.58	105	6174	0.11269 ppb	98
87) 1,3-DCB	22.09	146	4107	0.11605 ppb	89
90) n-Butylbenzene	22.65	91	11918	0.18556 ppb	96
93) 1,2,4-Trichlorobenzene	25.54	180	2343	0.27618 ppb	92
94) Hexachlorobutadiene	25.78	223	3303	0.26455 ppb	83

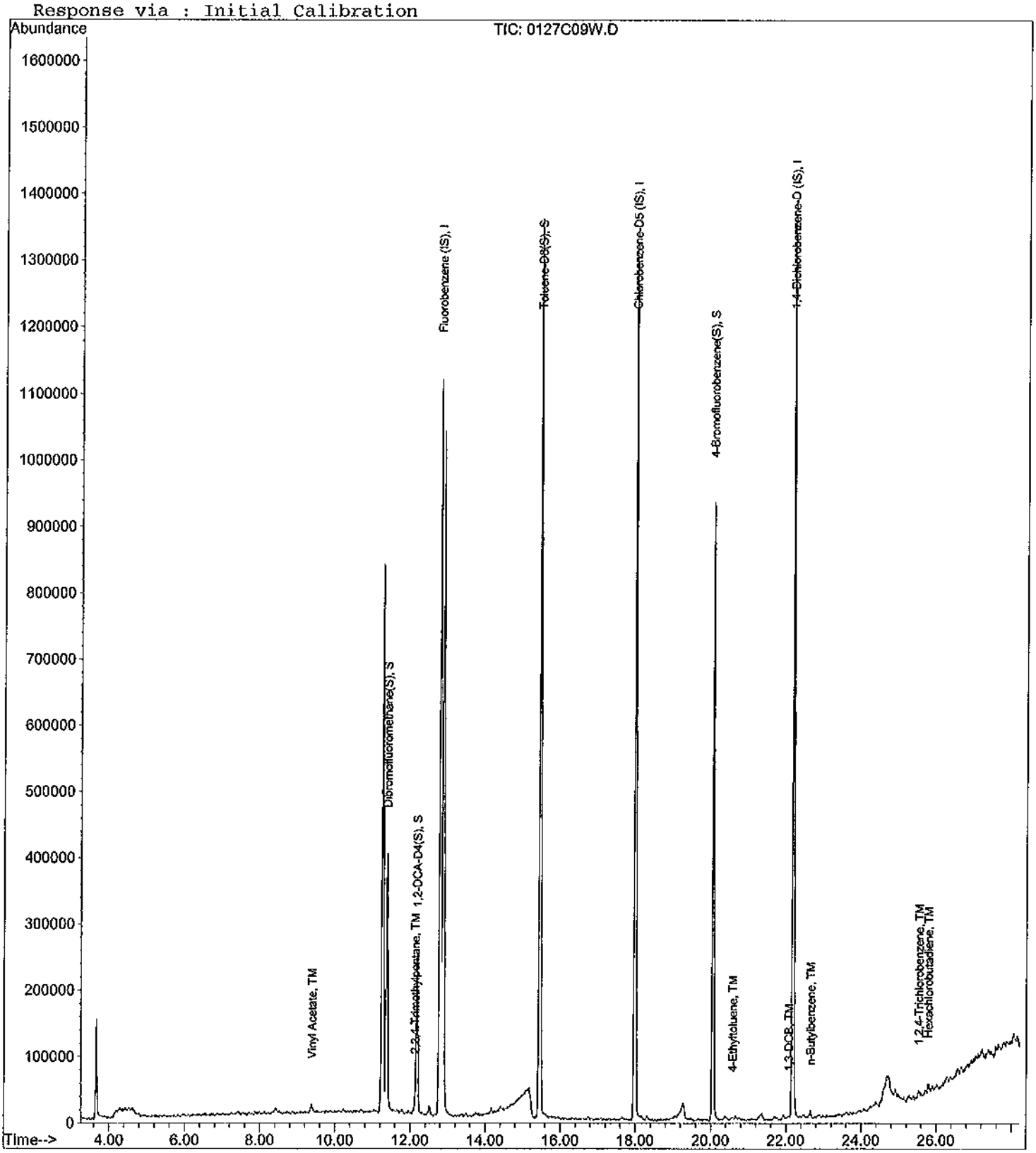
(#) = qualifier out of range (m) = manual integration

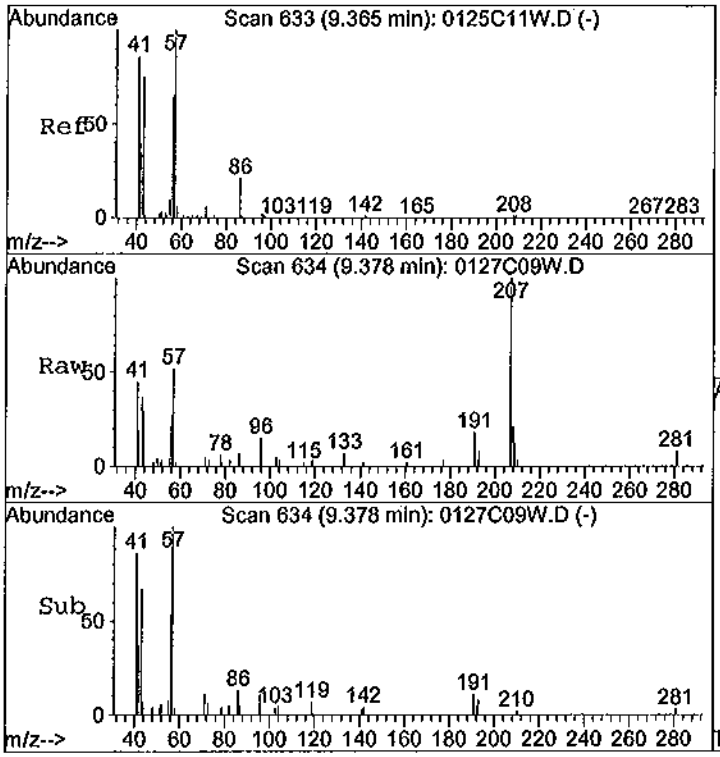
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C09W.D Vial: 1
Acq On : 27 Jan 12 15:01 Operator: RS, ARS
Sample : 120127A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 30 16:52 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration

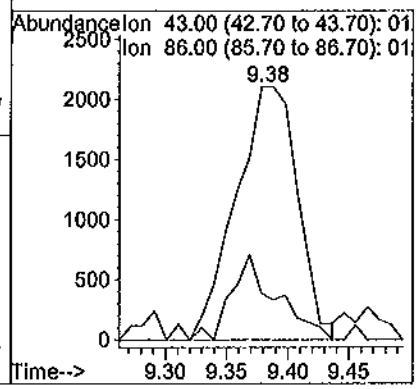


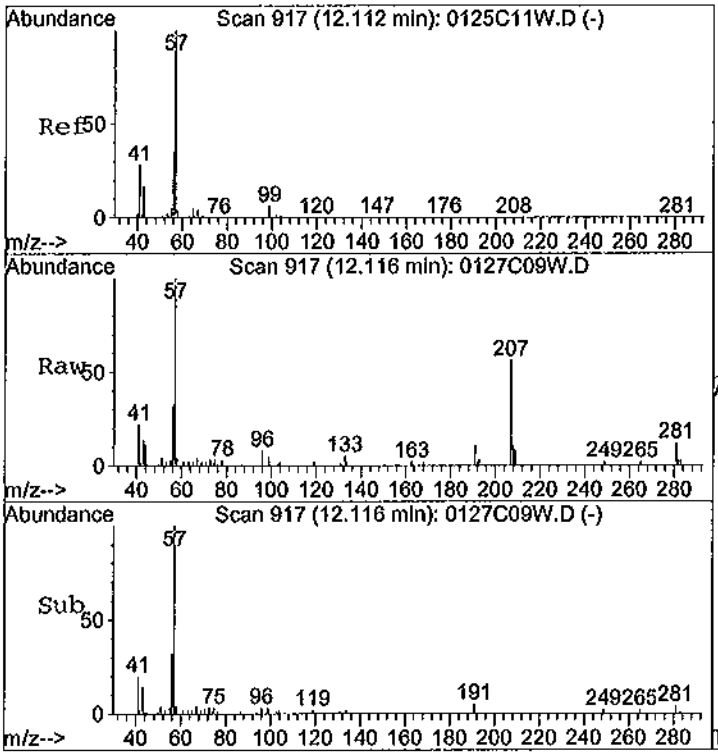


#25
Vinyl Acetate
Concen: 0.85726 ppb
RT: 9.38 min Scan# 634
Delta R.T. 0.01 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion: 43 Resp: 2108

Ion	Ratio	Lower	Upper
43	100		
86	18.4	20.0	37.1#

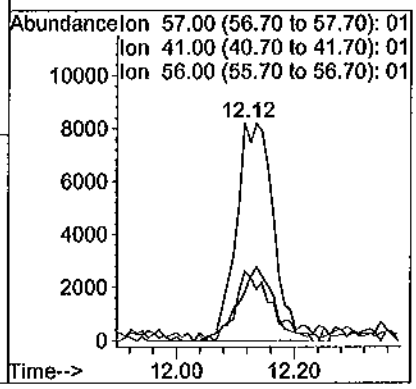


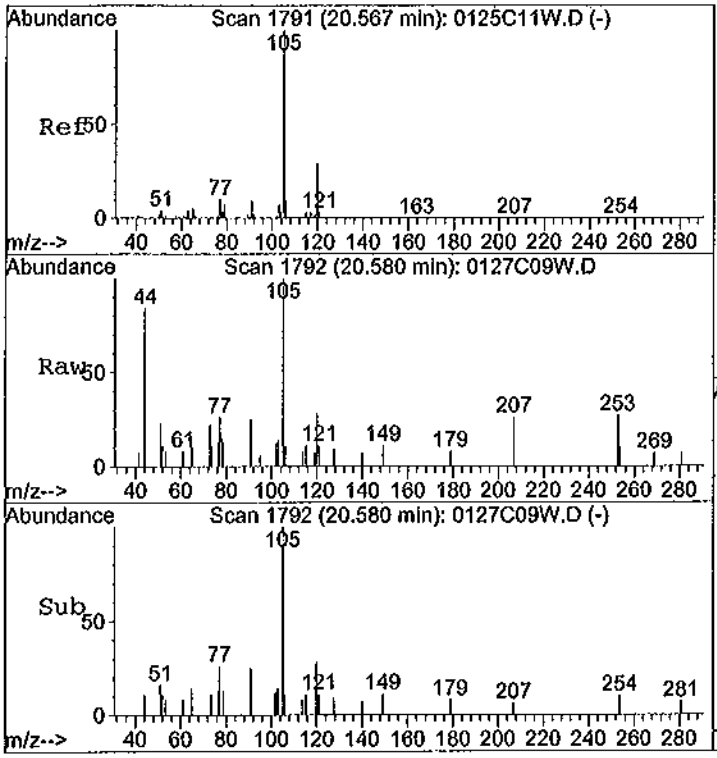


#36
2,2,4-Trimethylpentane
Concen: 0.94980 ppb
RT: 12.12 min Scan# 917
Delta R.T. 0.00 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion: 57 Resp: 36860

Ion	Ratio	Lower	Upper
57	100		
41	19.6	20.0	37.1#
56	31.8	24.6	45.8

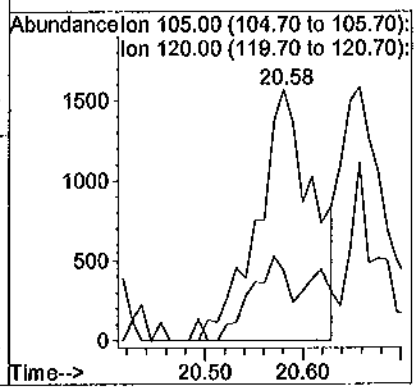


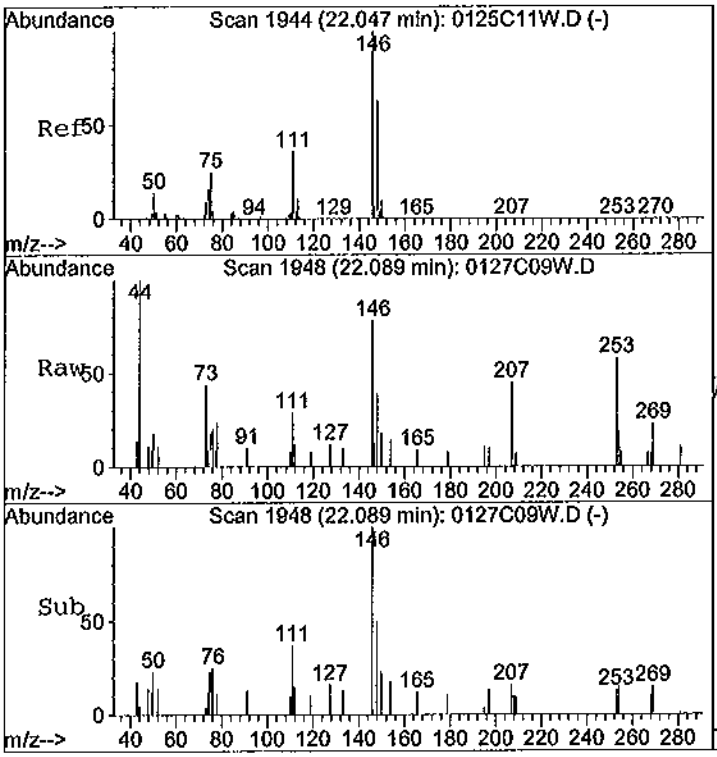


#78
4-Ethyltoluene
Concen: 0.11269 ppb
RT: 20.58 min Scan# 1792
Delta R.T. 0.01 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion:105 Resp: 6174

Ion	Ratio	Lower	Upper
105	100		
120	28.0	20.3	37.7

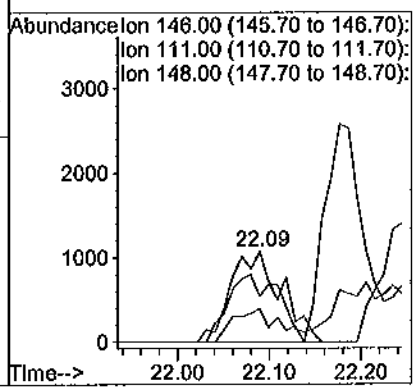


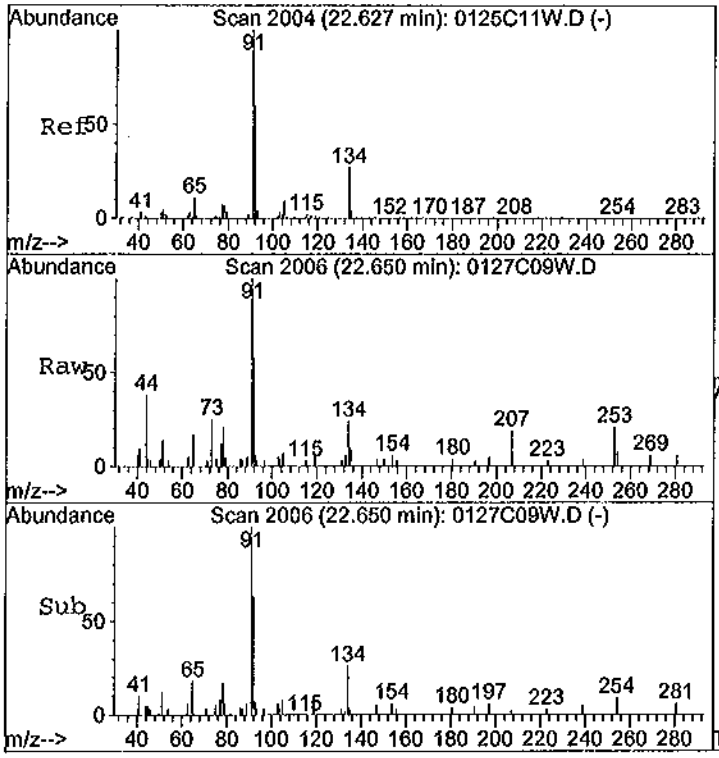


#87
1,3-DCB
Concen: 0.11605 ppb
RT: 22.09 min Scan# 1948
Delta R.T. 0.04 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion:146 Resp: 4107

Ion	Ratio	Lower	Upper
146	100		
111	36.8	25.0	46.4
148	50.5	44.0	81.8

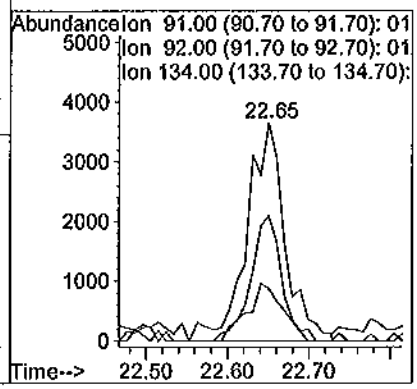


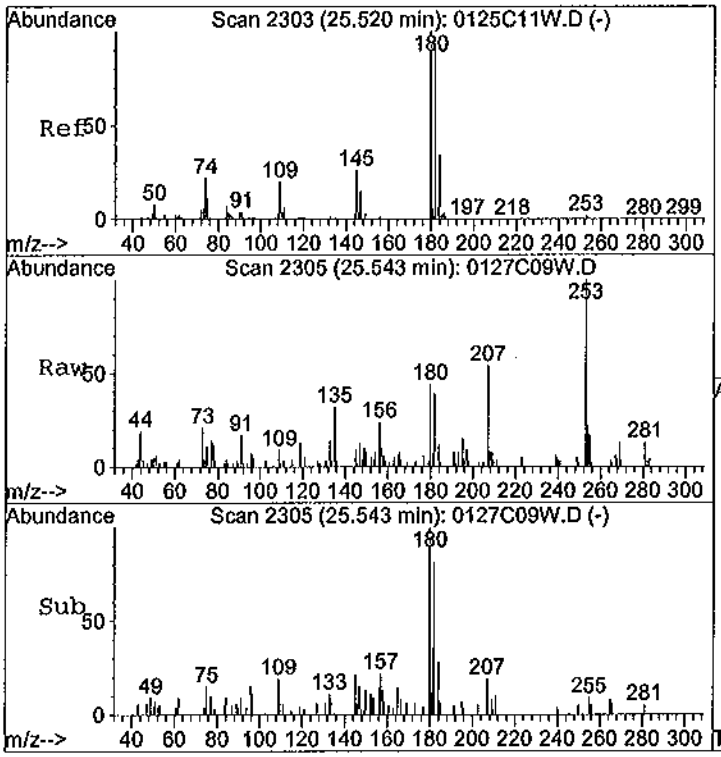


#90
n-Butylbenzene
Concen: 0.18556 ppb
RT: 22.65 min Scan# 2006
Delta R.T. 0.02 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion: 91 Resp: 11918

Ion	Ratio	Lower	Upper
91	100		
92	57.6	41.8	77.6
134	24.0	19.2	35.6

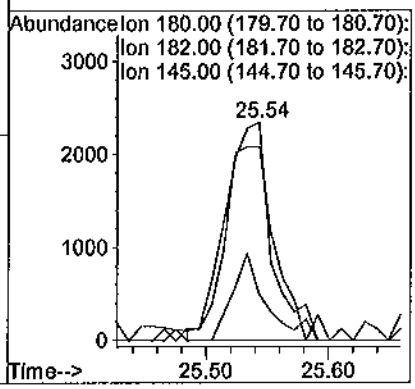


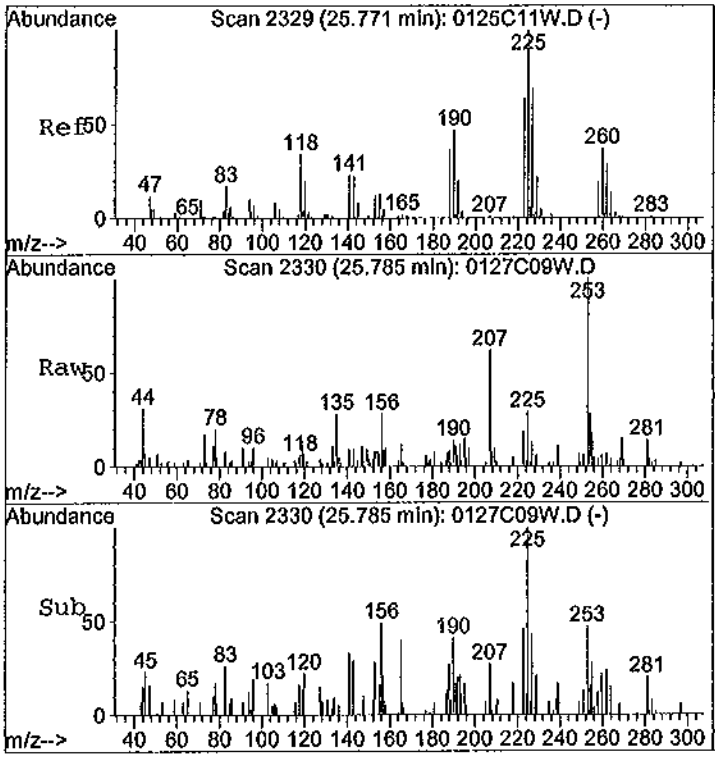


#93
1,2,4-Trichlorobenzene
Concen: 0.27618 ppb
RT: 25.54 min Scan# 2305
Delta R.T. 0.02 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion:180 Resp: 2343

Ion	Ratio	Lower	Upper
180	100		
182	88.9	67.7	125.7
145	21.3	18.2	33.8

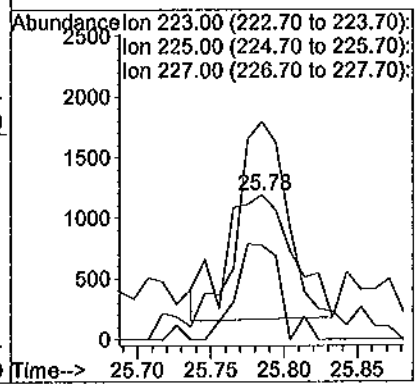




#94
Hexachlorobutadiene
Concen: 0.26455 ppb
RT: 25.78 min Scan# 2330
Delta R.T. 0.01 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion:223 Resp: 3303

Ion	Ratio	Lower	Upper
223	100		
225	166.9	109.3	203.1
227	76.7	75.7	140.7



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C09W.D Vial: 1
Acq On : 27 Jan 12 15:01 Operator: RS, ARS
Sample : 120127A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:54 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1109844	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1312811	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1350220	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	19994327m	15.18199	ppb	100

No gasoline pattern. DPA 2/7/2012

(#) = qualifier out of range (m) = manual integration
0127C09W.D CGAS.M Tue Feb 07 09:57:52 2012 Page 1

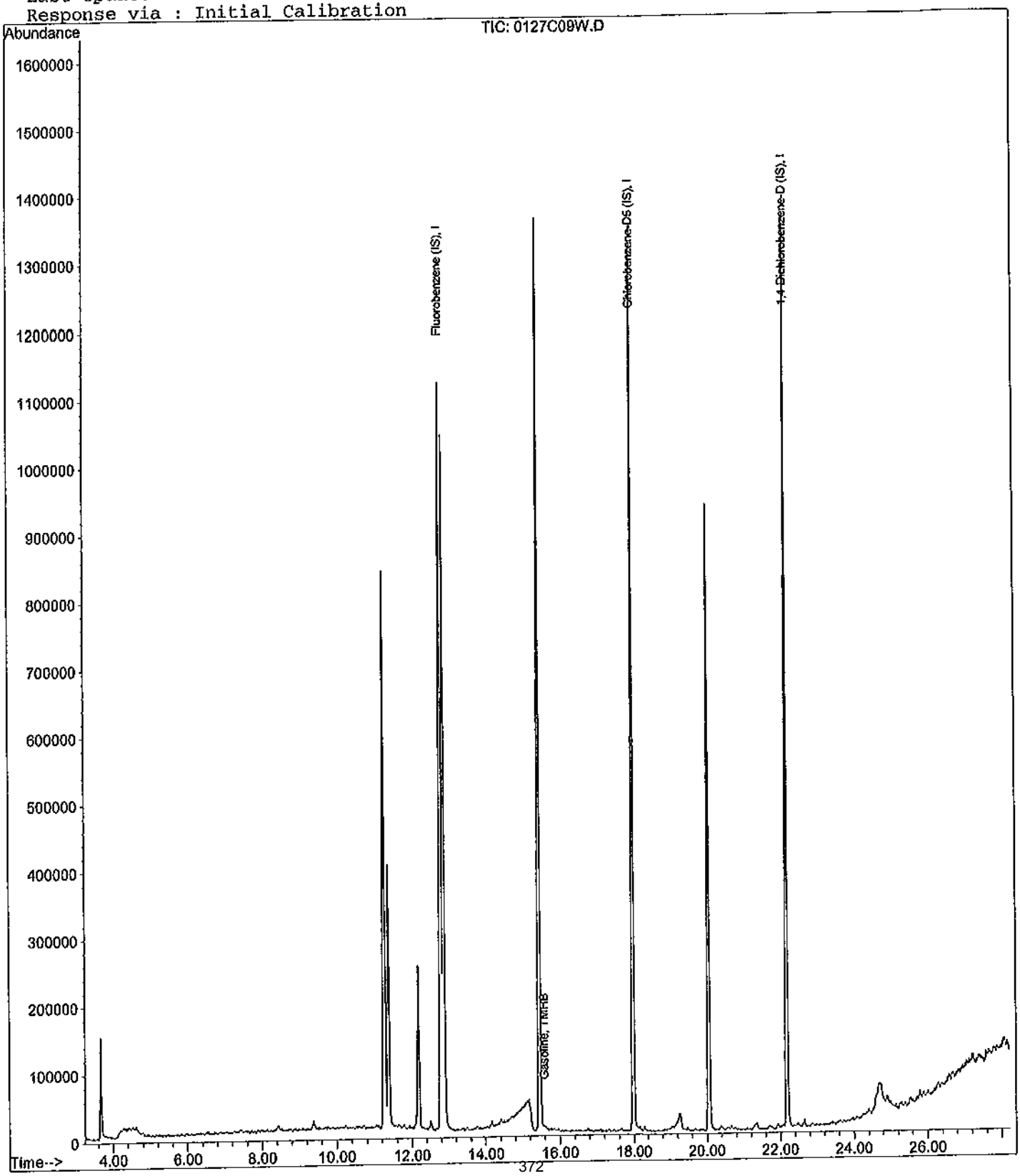
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C09W.D
Acq On : 27 Jan 12 15:01
Sample : 120127A BLK-1WC
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:54 2012 Quant Results File: CGAS.RES

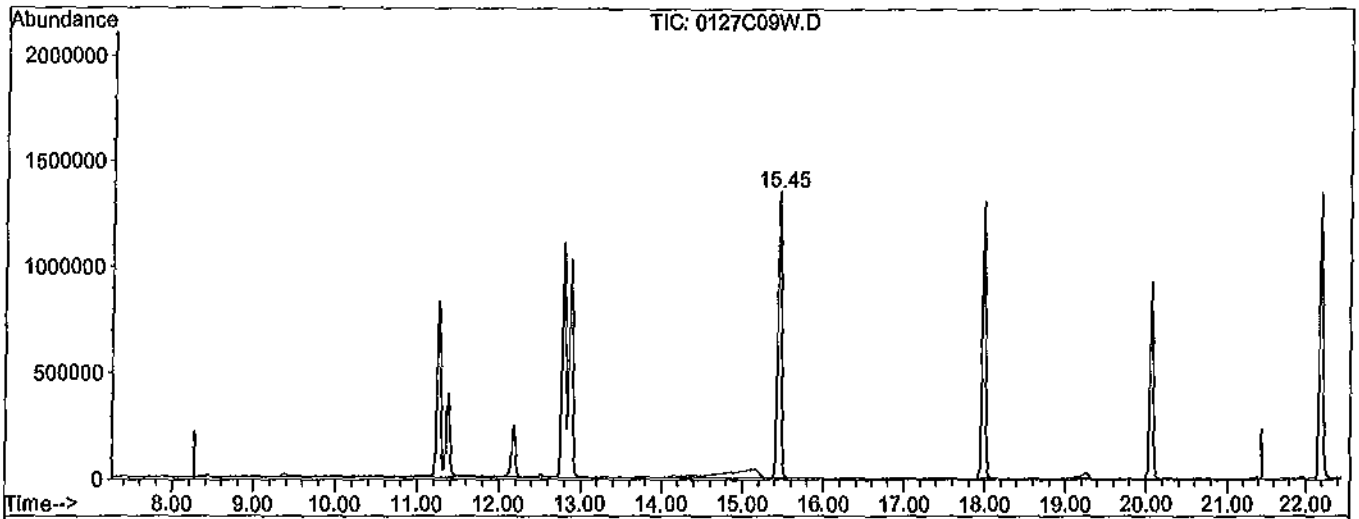
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

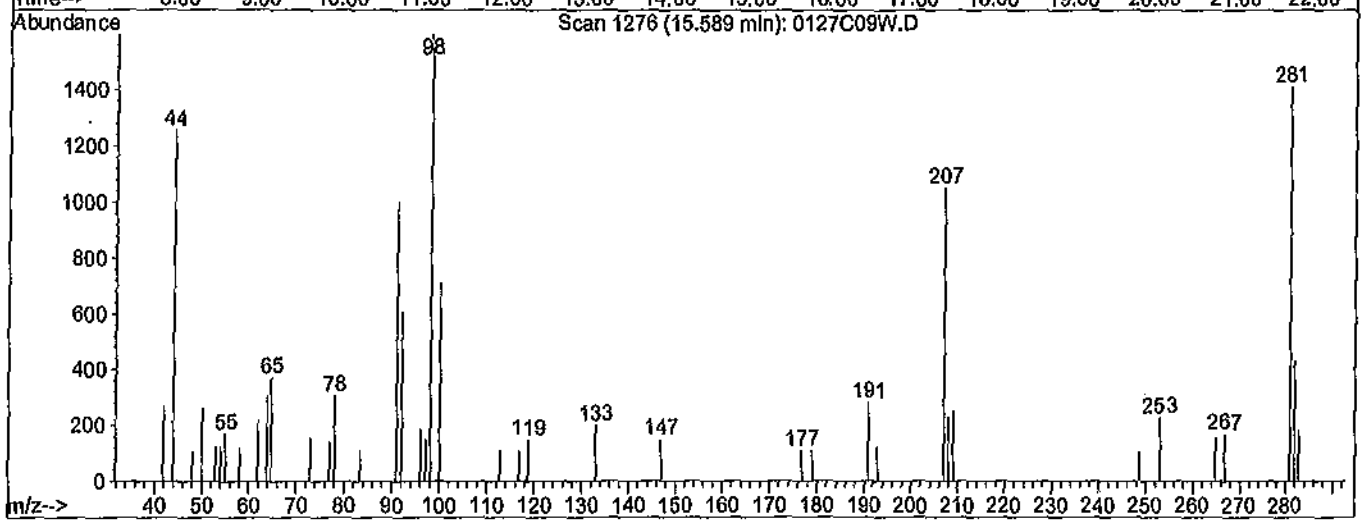


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C09W.D Vial: 1
Acq On : 27 Jan 12 15:01 Operator: RS, ARS
Sample : 120127A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:54 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0127C09W.D

(2) Gasoline (TMHB)

15.58min 15.1820ppb m

response 19994327

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.68#
0.00	0.00	1.95#
0.00	0.00	0.00

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120131W-53809 - 163745**
Batch ID: #86RHB-120131AT

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	01/31/12	01/31/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/31/12	01/31/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/31/12	01/31/12
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	01/31/12	01/31/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	01/31/12	01/31/12
BLANK	1,3-DICHLOROPROPENE, TOTA	0.36 U	1.0	0.36	0.18	ug/L	01/31/12	01/31/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/31/12	01/31/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/31/12	01/31/12
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/31/12	01/31/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/31/12	01/31/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/31/12	01/31/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/31/12	01/31/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/31/12	01/31/12
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/31/12	01/31/12

Quant Method: TALLW.M
Run #: 0131T24
Instrument: Thor
Sequence: T120131
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/09/12 11:38:41 AM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120131W-53809 - 163745**
Batch ID: #86RHB-120131AT

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	01/31/12	01/31/12
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	01/31/12	01/31/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/31/12	01/31/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	SURROGATE: 1,2-DICHLOROET	96.9	70-120			%	01/31/12	01/31/12
BLANK	SURROGATE: 4-BROMOFLUOR	99.3	75-120			%	01/31/12	01/31/12
BLANK	SURROGATE: DIBROMOFLUOR	98.9	85-115			%	01/31/12	01/31/12
BLANK	SURROGATE: TOLUENE-D8 (S)	100	85-120			%	01/31/12	01/31/12

Quant Method: TALLW.M
Run #: 0131T24
Instrument: Thor
Sequence: T120131
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/09/12 11:38:41 AM

Quantitation Report (QT Reviewed)

Data File : M:\THOR\DATA\T120131\0131T24W.D Vial: 24
Acq On : 31 Jan 12 21:00 Operator:
Sample : 120131A BLK-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 8 15:56 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.74	96	683584	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	544384	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	266368	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	317205	32.30867 ppb	-0.01
Spiked Amount 32.661			Recovery = 98.922%		
36) 1,2-DCA-D4(S)	6.34	65	319232	29.92555 ppb	-0.01
Spiked Amount 30.896			Recovery = 96.862%		
56) Toluene-D8(S)	8.44	98	1170437	34.10194 ppb	0.00
Spiked Amount 33.937			Recovery = 100.486%		
64) 4-Bromofluorobenzene(S)	11.06	95	425683	32.91393 ppb	0.00
Spiked Amount 33.154			Recovery = 99.277%		

Target Compounds Qvalue

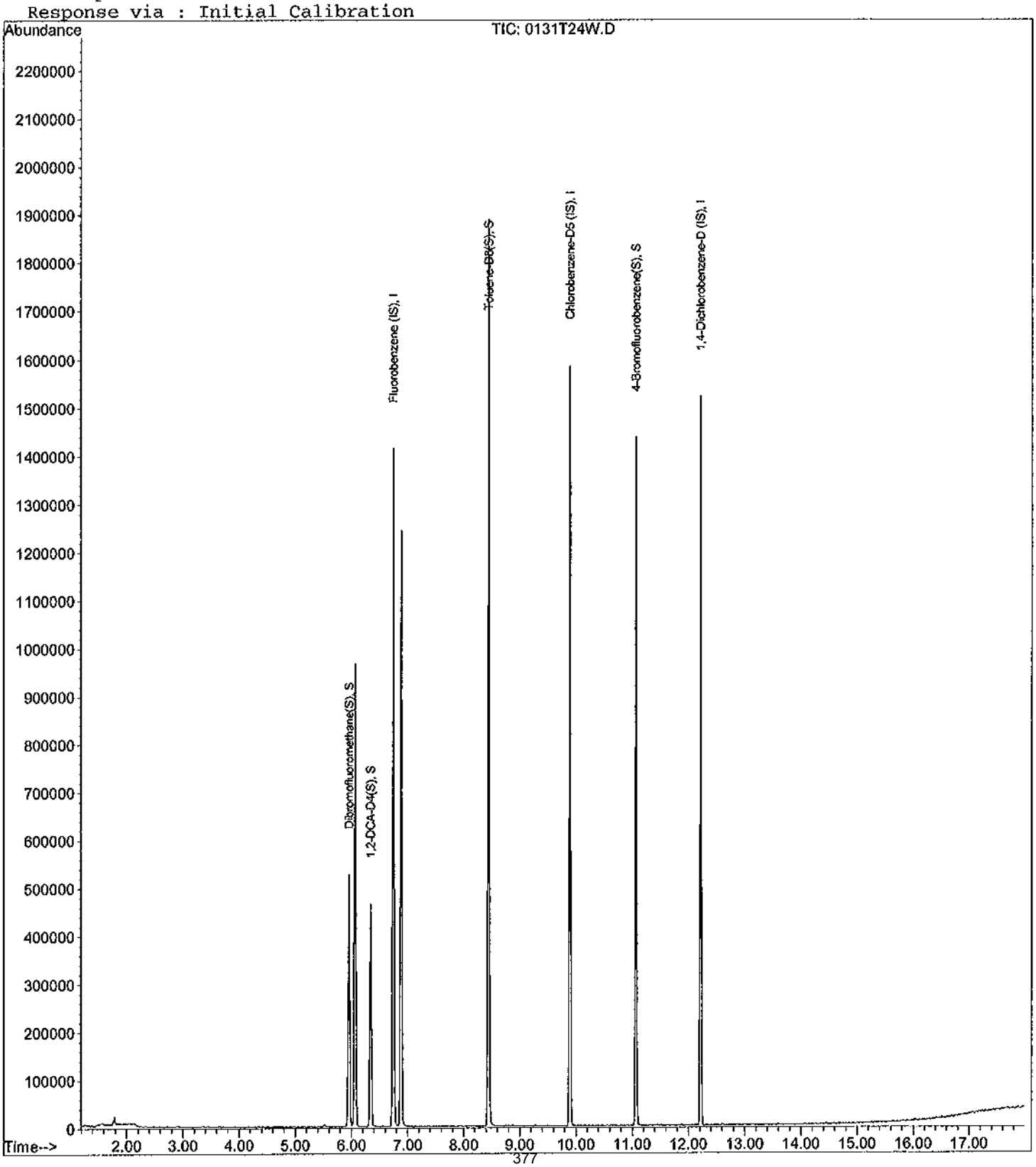
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T24W.D Vial: 24
Acq On : 31 Jan 12 21:00 Operator:
Sample : 120131A BLK-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 8 15:56 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120127W-53807 LCS - 163743**
Batch ID: #86RHB-120127AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	11.0	110	80-130
1,1,1-TRICHLOROETHANE	10.00	11.1	111	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.9	109	65-130
1,1,2-TRICHLOROETHANE	10.00	11.9	119	75-125
1,1-DICHLOROETHANE	10.00	11.6	116	70-135
1,1-DICHLOROETHENE	10.00	10.5	105	70-130
1,2,3-TRICHLOROPROPANE	10.00	8.84	88.4	75-125
1,2,4-TRICHLOROBENZENE	10.00	11.7	117	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	10.4	104	50-130
1,2-DIBROMOETHANE	10.00	10.3	103	70-130
1,2-DICHLOROBENZENE	10.00	10.6	106	70-120
1,2-DICHLOROETHANE	10.00	10.6	106	70-130
1,2-DICHLOROPROPANE	10.00	11.1	111	75-125
1,3-DICHLOROBENZENE	10.00	11.0	110	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	21.5	108	70-130
1,4-DICHLOROBENZENE	10.00	10.7	107	75-125
2-BUTANONE	10.00	9.46	94.6	30-150
4-METHYL-2-PENTANONE	10.00	9.44	94.4	60-135
ACETONE	10.00	10.7	107	40-140
BENZENE	10.00	11.1	111	80-120
BROMODICHLOROMETHANE	10.00	11.4	114	75-120
BROMOFORM	10.00	9.00	90.0	70-130
BROMOMETHANE	10.00	10.7	107	30-145
CARBON TETRACHLORIDE	10.00	10.4	104	65-140
CHLOROBENZENE	10.00	11.0	110	80-120
CHLORODIBROMOMETHANE	10.00	10.8	108	60-135

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	01/27/12
Analysis Date :	01/27/12
Instrument :	Chico
Run :	0127C03
Initials :	SV

Printed: 02/09/12 11:38:45 AM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120127W-53807 LCS - 163743**
Batch ID: #86RHB-120127AC

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	10.9	109	60-135
CHLOROFORM	10.00	11.5	115	65-135
CHLOROMETHANE	10.00	8.70	87.0	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.6	106	70-125
ETHYLBENZENE	10.00	11.0	110	75-125
GASOLINE	300	337	112	75-125
HEXACHLOROBUTADIENE	10.00	11.1	111	50-140
METHYL TERT-BUTYL ETHER	10.00	9.95	99.5	65-125
METHYLENE CHLORIDE	10.00	11.0	110	55-140
STYRENE	10.00	11.2	112	65-135
TETRACHLOROETHENE	10.00	11.6	116	45-150
TOLUENE	10.00	11.6	116	75-120
TRANS-1,2-DICHLOROETHENE	10.00	11.7	117	60-140
TRICHLOROETHENE	10.00	11.7	117	70-125
VINYL CHLORIDE	10.00	11.7	117	50-145
XYLENES (TOTAL)	30.0	34.2	114	80-120
SURROGATE: 1,2-DICHLOROETHANE-	22.9	23.2	101	70-120
SURROGATE: 4-BROMOFLUOROBENZ	26.8	25.7	96.0	75-120
SURROGATE: DIBROMOFLUOROMETH	24.1	25.2	104	85-115
SURROGATE: TOLUENE-D8 (S)	24.8	25.1	101	85-120

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	01/27/12
Analysis Date :	01/27/12
Instrument :	Chico
Run :	0127C03
Initials :	SV

Printed: 02/09/12 11:38:45 AM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C03W.D Vial: 1
Acq On : 27 Jan 12 11:18 Operator: RS, ARS
Sample : 120127A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.78	96	593908	25.00000 ppb		0.01
54) Chlorobenzene-D5 (IS)	17.98	117	495744	25.00000 ppb		0.01
70) 1,4-Dichlorobenzene-D (IS)	22.17	152	259520	25.00000 ppb		0.01
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.37	111	398968	25.23506 ppb		0.01
Spiked Amount 24.119			Recovery = 104.626%			
37) 1,2-DCA-D4(S)	12.17	65	264133	23.15566 ppb		0.01
Spiked Amount 22.874			Recovery = 101.232%			
55) Toluene-D8(S)	15.44	98	1569371	25.05070 ppb		0.01
Spiked Amount 24.755			Recovery = 101.195%			
63) 4-Bromofluorobenzene(S)	20.05	95	563187	25.72241 ppb		0.01
Spiked Amount 26.777			Recovery = 96.059%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.06	85	206927	9.88277 ppb		97
3) Freon 114	4.31	85	103140	11.37726 ppb		98
4) Chloromethane	4.52	50	77823	8.69892 ppb		99
5) Vinyl chloride	4.80	62	77896	11.74424 ppb		91
6) Bromomethane	5.69	94	43048	10.67648 ppb		88
7) Chloroethane	5.88	64	50525	10.90472 ppb		100
8) Dichlorofluoromethane	5.97	67	411111	12.12331 ppb		96
9) Trichlorofluoromethane	6.47	103	47280	10.59224 ppb		94
10) Acetonitrile	7.62	41	75817	120.35811 ug/l		100
11) Acrolein	7.11	56	17812	133.28685 ppb		98
12) Acetone	7.25	43	14083	10.66536 ppb	#	86
13) Freon-113	7.41	101	157093	11.45994 ppb		89
14) 1,1-DCE	7.63	96	90654	10.45368 ppb		84
15) t-Butanol	7.72	59	8384	128.65365 ppb	#	93
16) Methyl Acetate	8.15	43	43802	9.59877 ppb		97
17) Iodomethane	8.12	142	226666	11.70477 ppb		100
18) Acrylonitrile	8.52	53	19071	11.34711 ppb		90
19) Methylene chloride	8.43	84	115177	10.99920 ppb		91
20) Carbon disulfide	8.51	76	95216	10.97798 ppb		97
21) Methyl t-butyl ether (MtBE	8.84	73	217158	9.95162 ppb		97
22) Trans-1,2-DCE	9.05	96	116372	11.73985 ppb		99
23) Diisopropyl Ether	9.71	45	514646	11.05569 ppb		98
24) 1,1-DCA	9.73	63	272370	11.61695 ppb		98
25) Vinyl Acetate	9.38	43	27696	11.51451 ppb		98
26) Ethyl tert Butyl Ether	10.39	59	341509	10.78028 ppb		98
27) MEK (2-Butanone)	10.38	43	12060	9.46092 ppb		95
28) Cis-1,2-DCE	10.76	96	166222	10.59299 ppb		96
29) 2,2-Dichloropropane	10.76	77	233364	11.91211 ppb		100
30) Chloroform	11.04	83	288979	11.53354 ppb		98
31) Bromochloromethane	11.26	128	56430	11.84644 ppb		85
33) 1,1,1-TCA	11.79	97	239566	11.07452 ppb		98
34) Cyclohexane	11.94	56	230891	11.20729 ppb		94
35) 1,1-Dichloropropene	12.05	75	163135	10.94562 ppb		97
36) 2,2,4-Trimethylpentane	12.12	57	448745	11.20012 ppb		99
38) Carbon Tetrachloride	12.24	117	159990	10.39756 ppb		94
39) Tert Amyl Methyl Ether	12.30	73	260987	10.44579 ppb		95
40) 1,2-DCA	12.32	62	111671	10.56284 ppb		94
41) Benzene	12.44	78	549488	11.09682 ppb		97
42) TCE	13.48	95	159779	11.68668 ppb		96

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C03W.D Vial: 1
Acq On : 27 Jan 12 11:18 Operator: RS, ARS
Sample : 120127A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43) 2-Pentanone	13.15	43	436494	129.75465	ppb		97
44) 1,2-Dichloropropane	13.71	63	145909	11.12942	ppb	#	96
45) Bromodichloromethane	14.06	83	172853	11.36905	ppb		97
46) Methyl Cyclohexane	13.76	83	220156	11.53752	ppb		100
47) Dibromomethane	14.12	93	59909	11.13149	ppb		89
48) 2-Chloroethyl vinyl ether	14.52	63	38877	9.63187	ppb	#	89
49) 1-Bromo-2-chloroethane	14.82	63	127690	11.36993	ppb		86
50) Cis-1,3-Dichloropropene	14.95	75	191518	10.52664	ppb		94
51) Toluene	15.58	91	677066	11.64919	ppb		98
52) Trans-1,3-Dichloropropene	15.74	75	138172	10.96313	ppb		98
53) 1,1,2-TCA	16.02	83	71071	11.88216	ppb		91
56) 1,2-EDB	17.27	107	76014	10.29867	ppb		98
57) Tetrachloroethene	16.73	164	155497	11.56223	ppb		96
58) 1-Chlorohexane	17.65	91	290855	11.76186	ppb		99
59) 1,1,1,2-Tetrachloroethane	18.10	131	153219	11.02555	ppb		89
60) m&p-Xylene	18.30	106	674004	22.97781	ppb		96
61) o-Xylene	19.04	106	326383	11.20392	ppb		90
62) Styrene	19.06	104	488478	11.22216	ppb		96
64) 2-Hexanone	16.05	43	28607	10.63893	ppb		94
65) 1,3-Dichloropropane	16.44	76	144224	10.62053	ppb		99
66) Dibromochloromethane	16.91	129	106363	10.78241	ppb		97
67) Chlorobenzene	18.04	112	466961	10.96896	ppb		98
68) Ethylbenzene	18.15	91	856272	11.02266	ppb		100
69) Bromoform	19.57	173	52823	9.00017	ppb		89
71) MIBK (methyl isobutyl keto	14.62	43	44915	9.44253	ppb	#	82
72) Isopropylbenzene	19.67	105	889090	11.46103	ppb		98
73) 1,1,2,2-Tetrachloroethane	19.83	83	78084	10.89728	ppb		97
74) 1,2,3-Trichloropropane	20.09	110	7370	8.83575	ppb		100
75) t-1,4-Dichloro-2-Butene	20.16	53	17579	9.90566	ppb	#	73
76) Bromobenzene	20.40	156	198279	10.78428	ppb		97
77) n-Propylbenzene	20.38	91	1071977	11.10819	ppb		98
78) 4-Ethyltoluene	20.58	105	627697	11.19677	ppb		98
79) 2-Chlorotoluene	20.68	91	670568	10.98117	ppb		99
80) 1,3,5-Trimethylbenzene	20.65	105	726307	11.50731	ppb		98
81) 4-Chlorotoluene	20.75	91	581979	10.74791	ppb		94
82) Tert-Butylbenzene	21.29	119	780643	10.80242	ppb		98
83) 1,2,4-Trimethylbenzene	21.35	105	717360	11.43124	ppb		99
84) Sec-Butylbenzene	21.69	105	1023256	11.47728	ppb		99
85) p-Isopropyltoluene	21.92	119	818160	11.42699	ppb		98
86) Benzyl Chloride	22.37	91	149105	10.30196	ppb		99
87) 1,3-DCB	22.07	146	397923	10.98919	ppb		97
88) 1,4-DCB	22.23	146	377598	10.72613	ppb		99
89) Hexachloroethane	23.54	117	167277	10.54410	ppb		98
90) n-Butylbenzene	22.64	91	743128	11.30769	ppb		99
91) 1,2-DCB	22.86	146	321677	10.59693	ppb		97
92) 1,2-Dibromo-3-chloropropan	24.08	155	11432	10.36081	ppb		76
93) 1,2,4-Trichlorobenzene	25.53	180	101656	11.71079	ppb		98
94) Hexachlorobutadiene	25.77	223	116891	11.06348	ppb		96
95) Naphthalene	25.88	128	286286	11.02681	ppb		97
96) 1,2,3-Trichlorobenzene	26.24	180	81708	11.70539	ppb		97

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

Quantitation Report

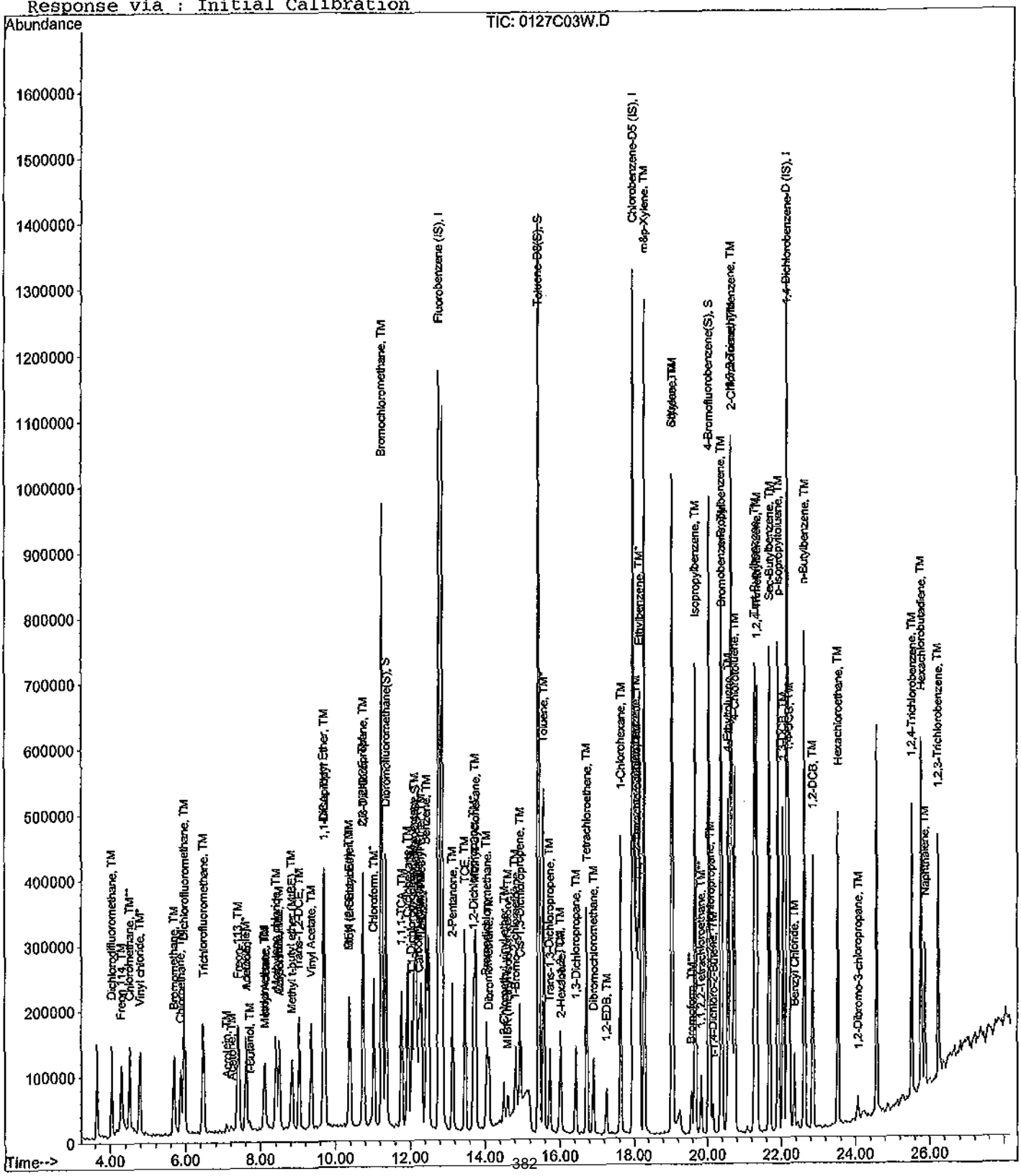
Data File : M:\CHICO\DATA\C120125\0127C03W.D
Acq On : 27 Jan 12 11:18
Sample : 120127A LCS-1WC
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Jan 27 14:06 2012

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C06W.D Vial: 1
Acq On : 27 Jan 12 13:10 Operator: RS, ARS
Sample : LCS gas 300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:39 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1198132	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1400448	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1498629	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	55052544m	336.60022	ppb	100

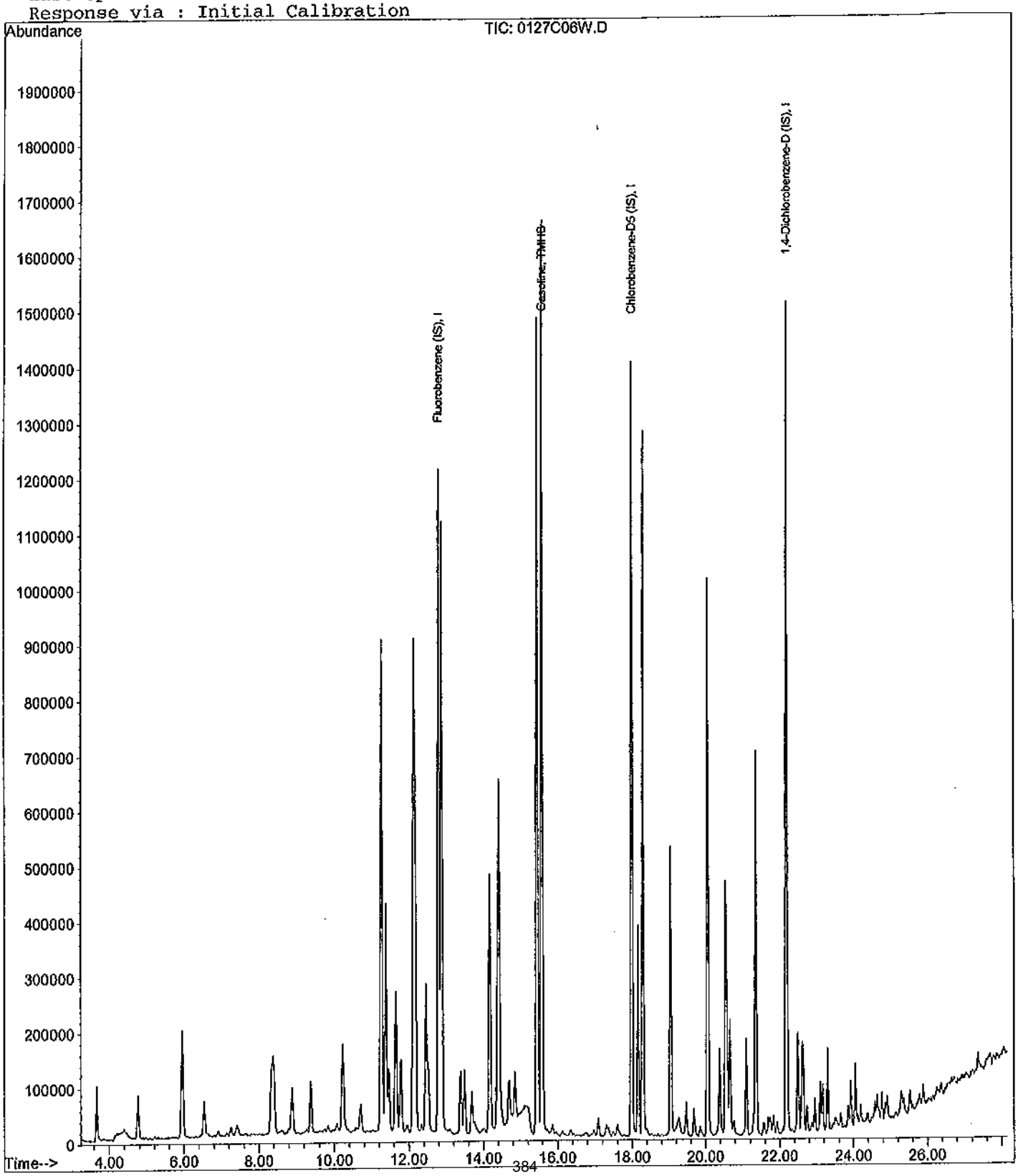
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C06W.D
Acq On : 27 Jan 12 13:10
Sample : LCS gas 300ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:39 2012 Quant Results File: CGAS.RES

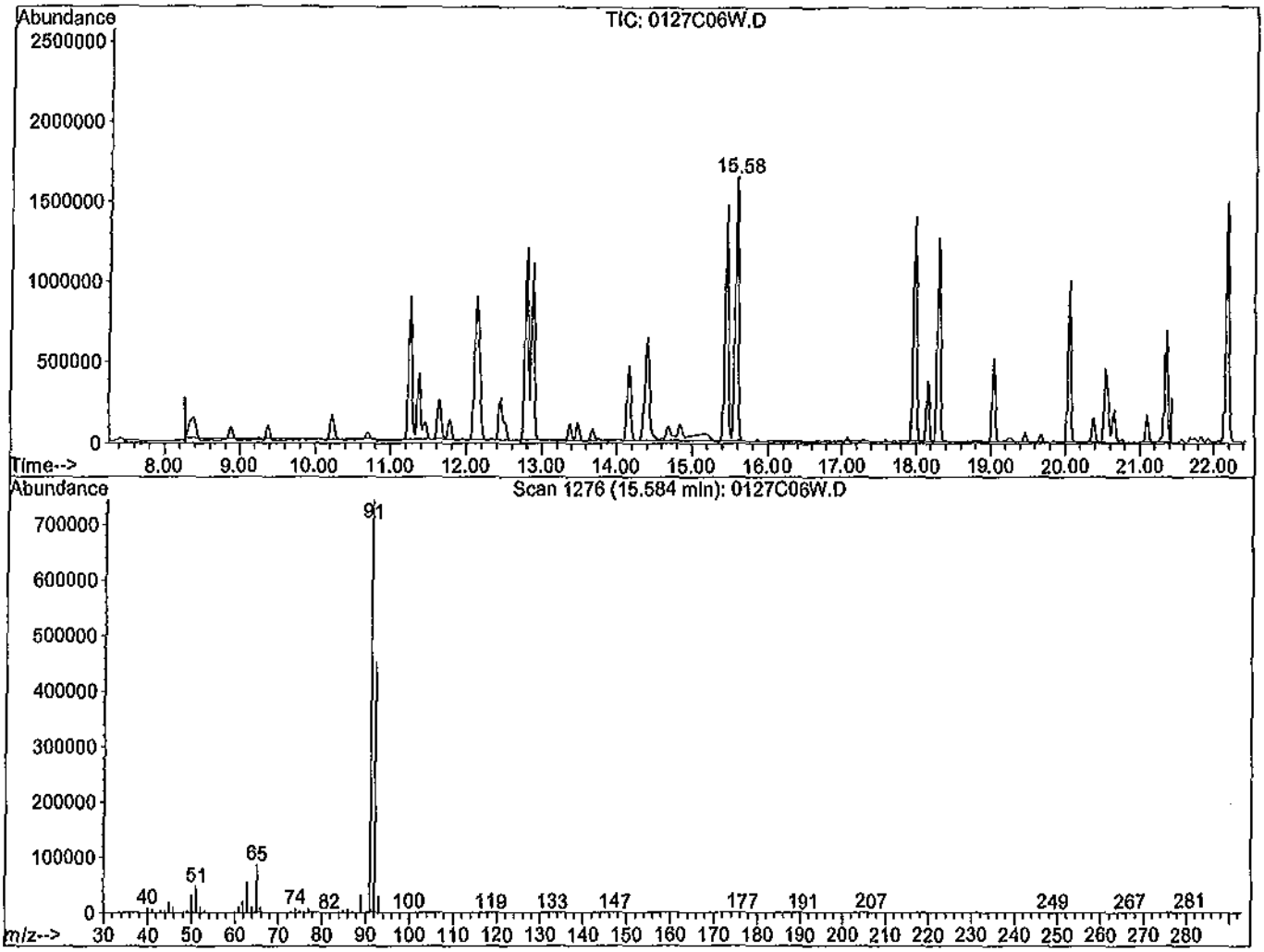
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C06W.D Vial: 1
Acq On : 27 Jan 12 13:10 Operator: RS, ARS
Sample : LCS gas 300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 9 12:54 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0127C06W.D

(2) Gasoline (TMHB)

15.58min 336.6002ppb m

response 55052544

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.27#
0.00	0.00	0.78#
0.00	0.00	0.00

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120131W-53809 LCS - 163745**
Batch ID: #86RHB-120131AT

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	10.0	100	80-130
1,1,1-TRICHLOROETHANE	10.00	9.94	99.4	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.1	101	65-130
1,1,2-TRICHLOROETHANE	10.00	10.1	101	75-125
1,1-DICHLOROETHANE	10.00	9.88	98.8	70-135
1,1-DICHLOROETHENE	10.00	10.2	102	70-130
1,2,3-TRICHLOROPROPANE	10.00	9.69	96.9	75-125
1,2,4-TRICHLOROBENZENE	10.00	9.71	97.1	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.48	84.8	50-130
1,2-DIBROMOETHANE	10.00	9.83	98.3	70-130
1,2-DICHLOROBENZENE	10.00	9.58	95.8	70-120
1,2-DICHLOROETHANE	10.00	9.93	99.3	70-130
1,2-DICHLOROPROPANE	10.00	9.88	98.8	75-125
1,3-DICHLOROBENZENE	10.00	9.62	96.2	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	20.0	100	70-130
1,4-DICHLOROBENZENE	10.00	9.55	95.5	75-125
2-BUTANONE	10.00	11.1	111	30-150
4-METHYL-2-PENTANONE	10.00	10.2	102	60-135
ACETONE	10.00	11.7	117	40-140
BENZENE	10.00	9.84	98.4	80-120
BROMODICHLOROMETHANE	10.00	9.88	98.8	75-120
BROMOFORM	10.00	10.5	105	70-130
BROMOMETHANE	10.00	8.46	84.6	30-145
CARBON TETRACHLORIDE	10.00	10.3	103	65-140
CHLOROBENZENE	10.00	9.84	98.4	80-120
CHLORODIBROMOMETHANE	10.00	9.84	98.4	60-135

Comments: _____

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	01/31/12
Analysis Date :	01/31/12
Instrument :	Thor
Run :	0131T17
Initials :	SV

Printed: 02/09/12 11:38:45 AM

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120131W-53809 LCS - 163745**
Batch ID: #86RHB-120131AT

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	10.1	101	60-135
CHLOROFORM	10.00	9.81	98.1	65-135
CHLOROMETHANE	10.00	9.62	96.2	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.2	102	70-125
ETHYLBENZENE	10.00	9.97	99.7	75-125
GASOLINE	300	337	112	75-125
HEXACHLOROBUTADIENE	10.00	9.58	95.8	50-140
METHYL TERT-BUTYL ETHER	10.00	10.0	100	65-125
METHYLENE CHLORIDE	10.00	10.1	101	55-140
STYRENE	10.00	10.1	101	65-135
TETRACHLOROETHENE	10.00	10.0	100	45-150
TOLUENE	10.00	9.99	99.9	75-120
TRANS-1,2-DICHLOROETHENE	10.00	9.84	98.4	60-140
TRICHLOROETHENE	10.00	9.99	99.9	70-125
VINYL CHLORIDE	10.00	9.83	98.3	50-145
XYLENES (TOTAL)	30.0	30.3	101	80-120
SURROGATE: 1,2-DICHLOROETHANE-	30.9	30.6	99.0	70-120
SURROGATE: 4-BROMOFLUOROBENZ	33.2	34.0	103	75-120
SURROGATE: DIBROMOFLUOROMETH	32.7	32.0	98.0	85-115
SURROGATE: TOLUENE-D8 (S)	33.9	33.2	97.8	85-120

Comments:

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	01/31/12
Analysis Date :	01/31/12
Instrument :	Thor
Run :	0131T17
Initials :	SV

Printed: 02/09/12 11:38:45 AM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 Operator:
Sample : 120131A LCS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	721472	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	577472	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	323520	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	331202	31.96277 ppb	0.00
Spiked Amount 32.661			Recovery = 97.863%		
36) 1,2-DCA-D4(S)	6.34	65	344866	30.63082 ppb	0.00
Spiked Amount 30.896			Recovery = 99.144%		
56) Toluene-D8(S)	8.44	98	1208016	33.18014 ppb	0.00
Spiked Amount 33.937			Recovery = 97.770%		
64) 4-Bromofluorobenzene(S)	11.06	95	466225	33.98313 ppb	0.00
Spiked Amount 33.154			Recovery = 102.501%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.28	85	89447	11.16976 ppb	99
3) Freon 114	1.40	85	49840	10.94305 ppb	100
4) Chloromethane	1.44	50	102916	9.61880 ppb	97
5) Vinyl chloride	1.55	62	106116	9.83271 ppb	98
6) Bromomethane	1.85	94	61157	8.46462 ppb	99
7) Chloroethane	1.96	64	68671	10.14348 ppb	97
8) Dichlorofluoromethane	2.17	67	174035	10.04930 ppb	100
9) Trichlorofluoromethane	2.23	101	141224	10.39160 ppb	97
10) Acrolein	2.70	55	19380	122.45436 ppb	82
11) Acetone	2.90	43	22126	11.66013 ppb	83
12) Freon-113	2.85	101	68650	10.31550 ppb	97
13) 1,1-DCE	2.81	61	61955	10.15051 ppb	98
14) t-Butanol	3.73	59	25856	128.07499 ppb	95
15) Methyl Acetate	3.36	43	58526	10.20702 ppb	90
16) Iodomethane	2.97	142	87651	8.47425 ppb	94
17) Acrylonitrile	3.82	52	19634	10.20718 ppb	83
18) Methylene chloride	3.45	84	65320	10.12472 ppb	93
19) Carbon disulfide	3.06	76	112630	10.22403 ppb	97
20) Methyl t-butyl ether (MtBE	3.93	73	219378	10.02685 ppb	98
21) Trans-1,2-DCE	3.87	96	47232	9.83680 ppb	96
22) Diisopropyl Ether	4.72	59	33543	10.14875 ppb	93
23) 1,1-DCA	4.51	63	128263	9.87703 ppb	99
24) Vinyl Acetate	4.72	87	81461	10.22826 ppb	94
25) Ethyl tert Butyl Ether	5.23	59	243541	10.10511 ppb	98
26) MEK (2-Butanone)	5.40	43	28640	11.05030 ppb	96
27) Cis-1,2-DCE	5.34	96	86319	10.19799 ppb	100
28) 2,2-Dichloropropane	5.33	77	100111	9.34709 ppb	97
29) Chloroform	5.77	83	152199	9.81369 ppb	100
30) Bromochloromethane	5.63	128	39123	9.79861 ppb	93
32) 1,1,1-TCA	5.97	97	113118	9.94124 ppb	100
33) Cyclohexane	6.04	41	55633	9.56586 ppb	92
34) 1,1-Dichloropropene	6.18	75	75028	10.22845 ppb	99
35) 2,2,4-Trimethylpentane	6.56	57	216542	10.23001 ppb	99
37) Carbon Tetrachloride	6.17	117	87181	10.25598 ppb	97
38) Tert Amyl Methyl Ether	6.61	73	226745	9.95409 ppb	98
39) 1,2-DCA	6.43	62	103571	9.93100 ppb	98
40) Benzene	6.41	78	276076	9.83690 ppb	99
41) TCE	7.16	95	79560	9.98950 ppb	98
42) 2-Pentanone	7.38	43	620548	123.92157 ppb	98

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 Operator:
Sample : 120131A LCS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	1,2-Dichloropropane	7.39	63	92869	9.88423 ppb	99
44)	Bromodichloromethane	7.69	83	118663	9.87986 ppb	99
45)	Methyl Cyclohexane	7.37	83	112123	10.39645 ppb	99
46)	Dibromomethane	7.51	93	48958	9.67884 ppb	93
48)	MIBK (methyl isobutyl ket	9.20	43	26318	10.23709 ppb	92
49)	1-Bromo-2-chloroethane	8.00	63	66000	9.43354 ppb	94
50)	Cis-1,3-Dichloropropene	8.17	75	125120	10.01105 ppb	98
51)	Toluene	8.51	91	356062	9.98661 ppb	98
52)	Trans-1,3-Dichloropropene	8.74	75	107465	9.96425 ppb	97
53)	1,1,2-TCA	8.92	83	69763	10.10229 ppb	98
54)	2-Hexanone	9.20	43	43835	10.76441 ppb	92
57)	1,2-EDB	9.41	107	74425	9.82584 ppb	98
58)	Tetrachloroethene	9.07	166	89761	10.00617 ppb	99
59)	1-Chlorohexane	9.92	91	118519	9.88469 ppb	99
60)	1,1,1,2-Tetrachloroethane	10.00	131	95340	10.01828 ppb	99
61)	m&p-Xylene	10.16	106	335284	20.10672 ppb	99
62)	o-Xylene	10.55	106	169711	10.15200 ppb	100
63)	Styrene	10.56	104	287132	10.11534 ppb	95
65)	1,3-Dichloropropane	9.08	76	132096	10.15386 ppb	98
66)	Dibromochloromethane	9.31	129	88053	9.83659 ppb	99
67)	Chlorobenzene	9.92	112	265218	9.83615 ppb	99
68)	Ethylbenzene	10.04	91	437842	9.97019 ppb	100
69)	Bromoform	10.73	173	59065	10.52472 ppb	98
71)	Isopropylbenzene	10.93	105	428276	9.69843 ppb	98
72)	1,1,2,2-Tetrachloroethane	11.21	83	95608	10.05934 ppb	95
73)	1,2,3-Trichloropropane	11.24	110	28716	9.68623 ppb	94
74)	t-1,4-Dichloro-2-Butene	11.26	53	19163	8.88840 ppb	94
75)	Bromobenzene	11.21	156	123604	9.24575 ppb	100
76)	n-Propylbenzene	11.33	91	530268	9.76320 ppb	98
77)	4-Ethyltoluene	11.45	105	310148	9.88655 ppb	100
78)	2-Chlorotoluene	11.41	91	356117	9.77214 ppb	96
79)	1,3,5-Trimethylbenzene	11.51	105	380082	9.74058 ppb	95
80)	4-Chlorotoluene	11.52	91	366677	9.88548 ppb	99
81)	Tert-Butylbenzene	11.84	119	342707	9.33244 ppb	100
82)	1,2,4-Trimethylbenzene	11.88	105	383886	9.84287 ppb	98
83)	Sec-Butylbenzene	12.05	105	490146	9.90337 ppb	100
84)	p-Isopropyltoluene	12.20	119	408260	9.72986 ppb	100
85)	Benzyl Chloride	12.37	91	98692	8.59409 ppb	100
86)	1,3-DCB	12.15	146	233870	9.62097 ppb	97
87)	1,4-DCB	12.24	146	234146	9.55390 ppb	99
88)	n-Butylbenzene	12.61	91	352693	9.87557 ppb	98
89)	1,2-DCB	12.61	146	219383	9.58248 ppb	99
90)	Hexachloroethane	12.87	117	63020	9.39246 ppb	97
91)	1,2-Dibromo-3-chloropropan	13.37	157	10475	8.47961 ppb	96
92)	1,2,4-Trichlorobenzene	14.21	180	89120	9.71443 ppb	96
93)	Hexachlorobutadiene	14.40	225	82253	9.57986 ppb	94
94)	Naphthalene	14.45	128	240182	10.31438 ppb	98
95)	1,2,3-Trichlorobenzene	14.69	180	121722	9.86427 ppb	97

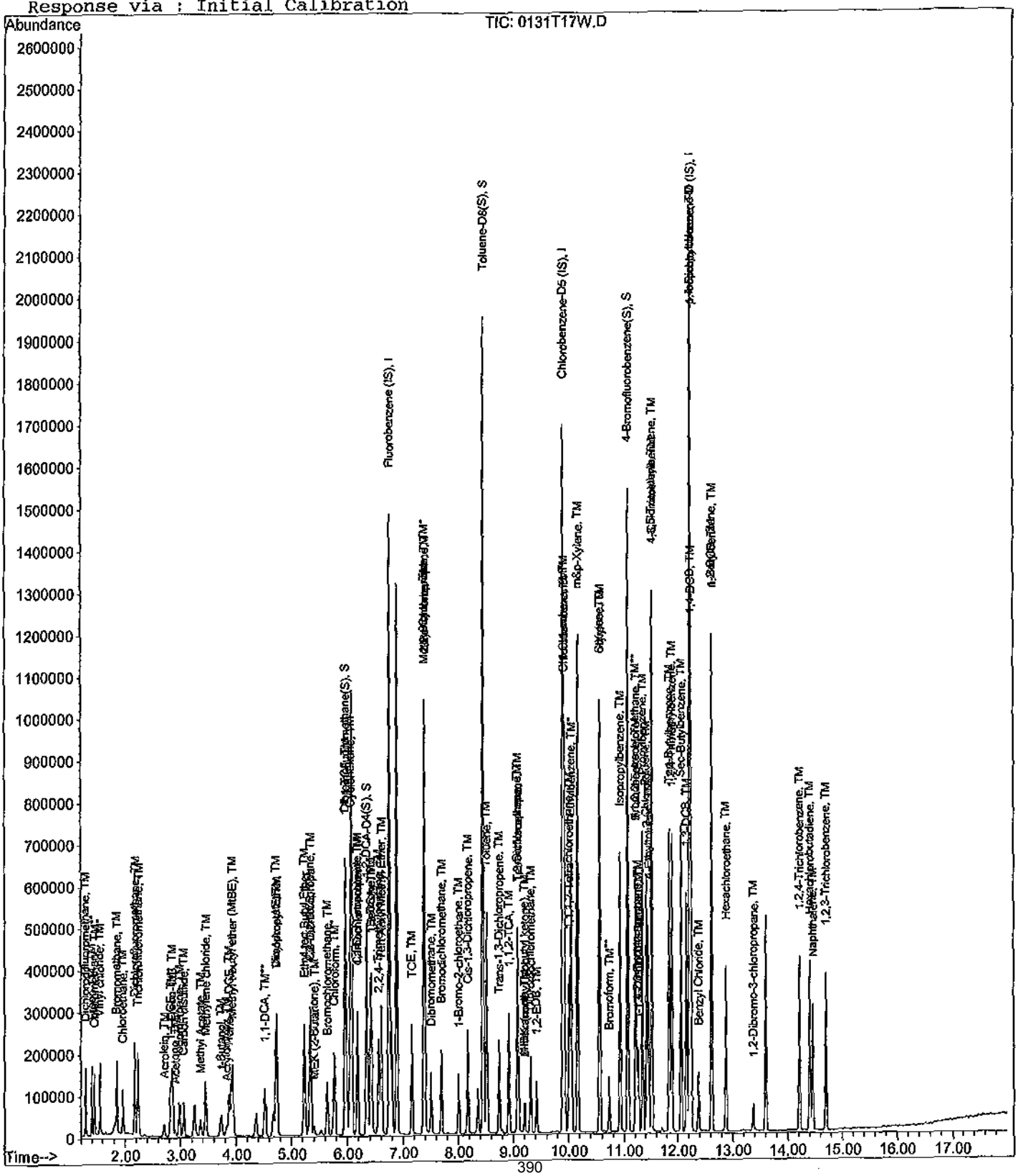
(#) = qualifier out of range (m) = manual integration
0131T17W.D TALLW.M Thu Feb 09 14:21:47 2012

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 Operator:
Sample : 120131A LCS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

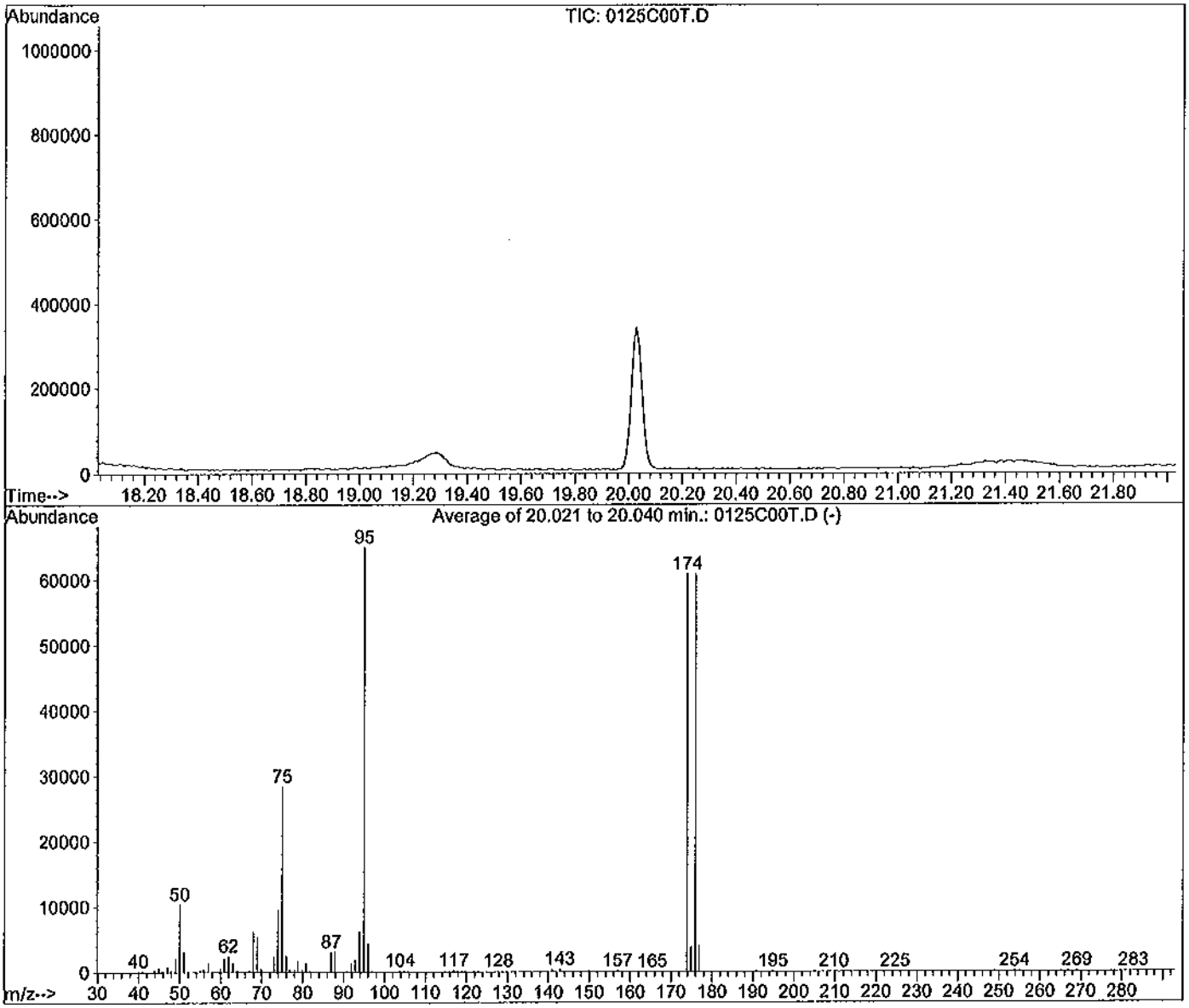
Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C120125\0125C00T.D Vial: 1
Acq On : 25 Jan 12 12:41 Operator: RS, ARS
Sample : 25ug/mL BFB Std. 01-12-12 Inst : Chico
Misc : Water 2uL Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260

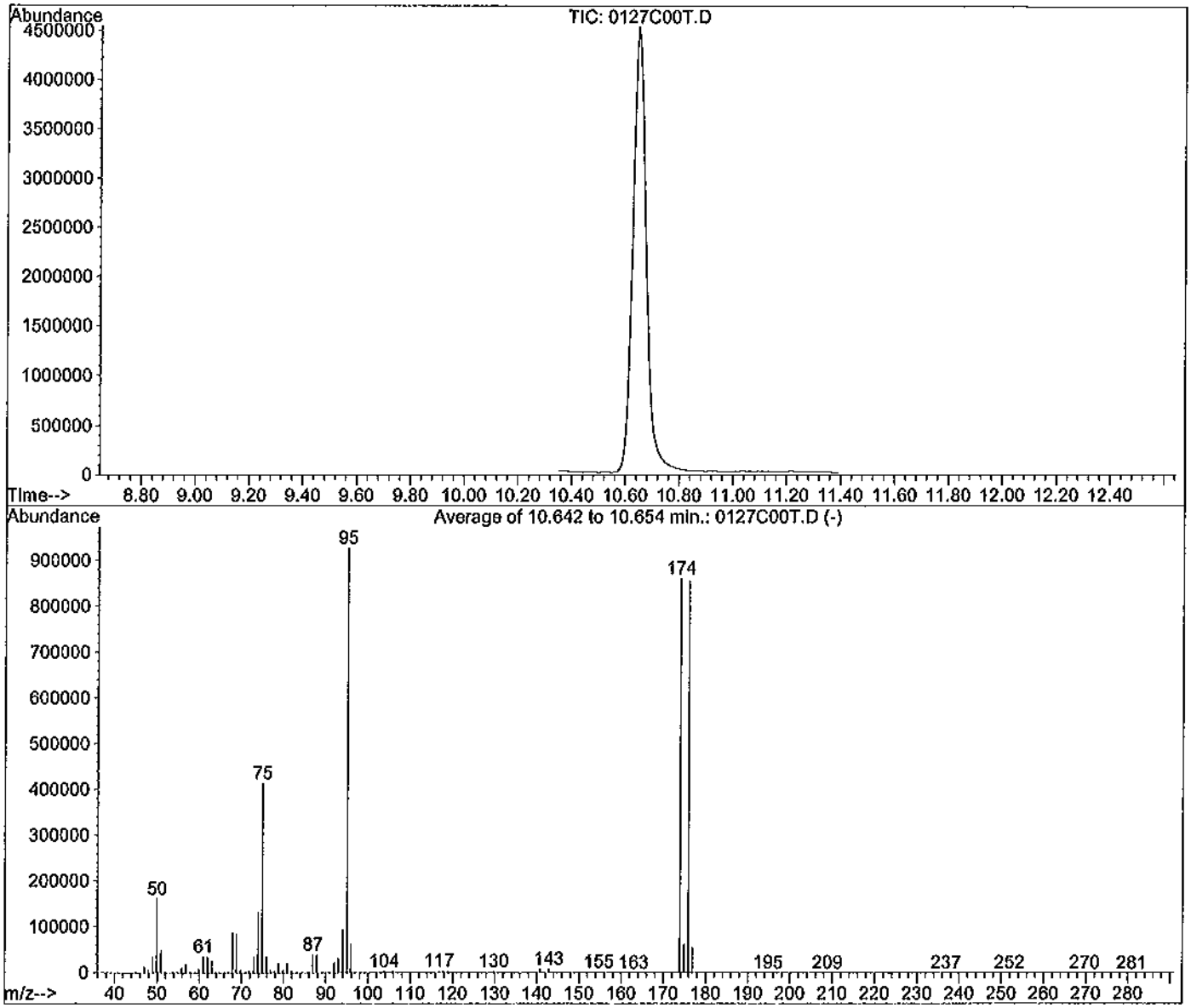


Spectrum Information: Average of 20.021 to 20.040 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	10386	PASS
75	95	30	60	43.7	28400	PASS
95	95	100	100	100.0	64952	PASS
96	95	5	9	6.8	4425	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.6	60811	PASS
175	174	5	9	6.3	3812	PASS
176	174	95	101	100.0	60792	PASS
177	176	5	9	6.7	4066	PASS

Data File : M:\CHICO\DATA\C120125\0127C00T.D Vial: 1
Acq On : 27 Jan 12 9:32 Operator: RS, ARS
Sample : 25ug/mL BFB Std. 01-12-12 Inst : Chico
Misc : 2uL Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260

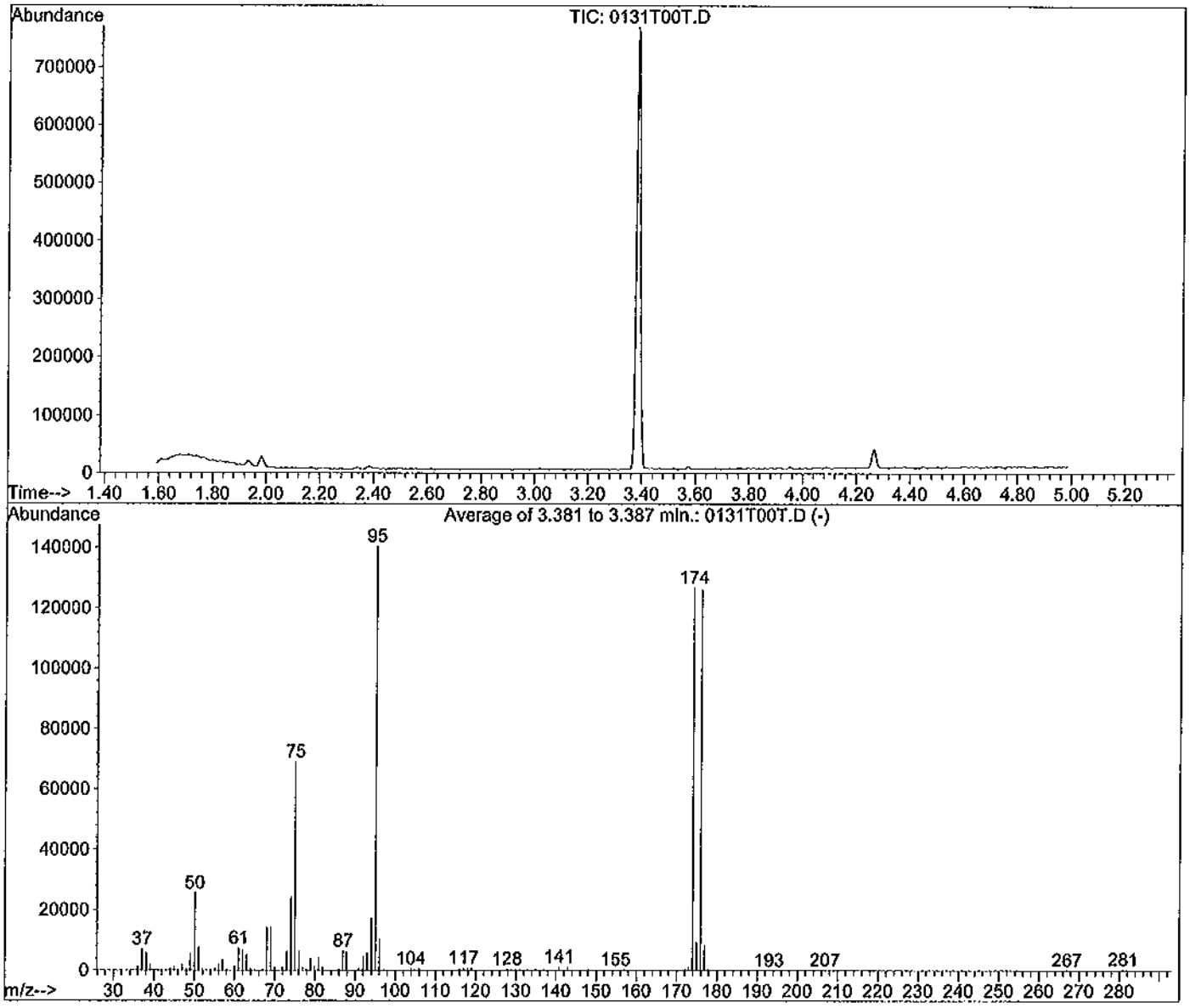


Spectrum Information: Average of 10.642 to 10.654 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	161262	PASS
75	95	30	60	44.7	414003	PASS
95	95	100	100	100.0	927189	PASS
96	95	5	9	6.7	61922	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.9	861461	PASS
175	174	5	9	7.3	62735	PASS
176	174	95	101	99.4	856043	PASS
177	176	5	9	6.5	55251	PASS

Data File : M:\THOR\DATA\T120131\0131T00T.D Vial: 1
Acq On : 31 Jan 12 10:01 Operator:
Sample : 5ng- BFB STD 1-12-12 Inst : Thor
Misc : 2ul Multiplr: 1.00

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B



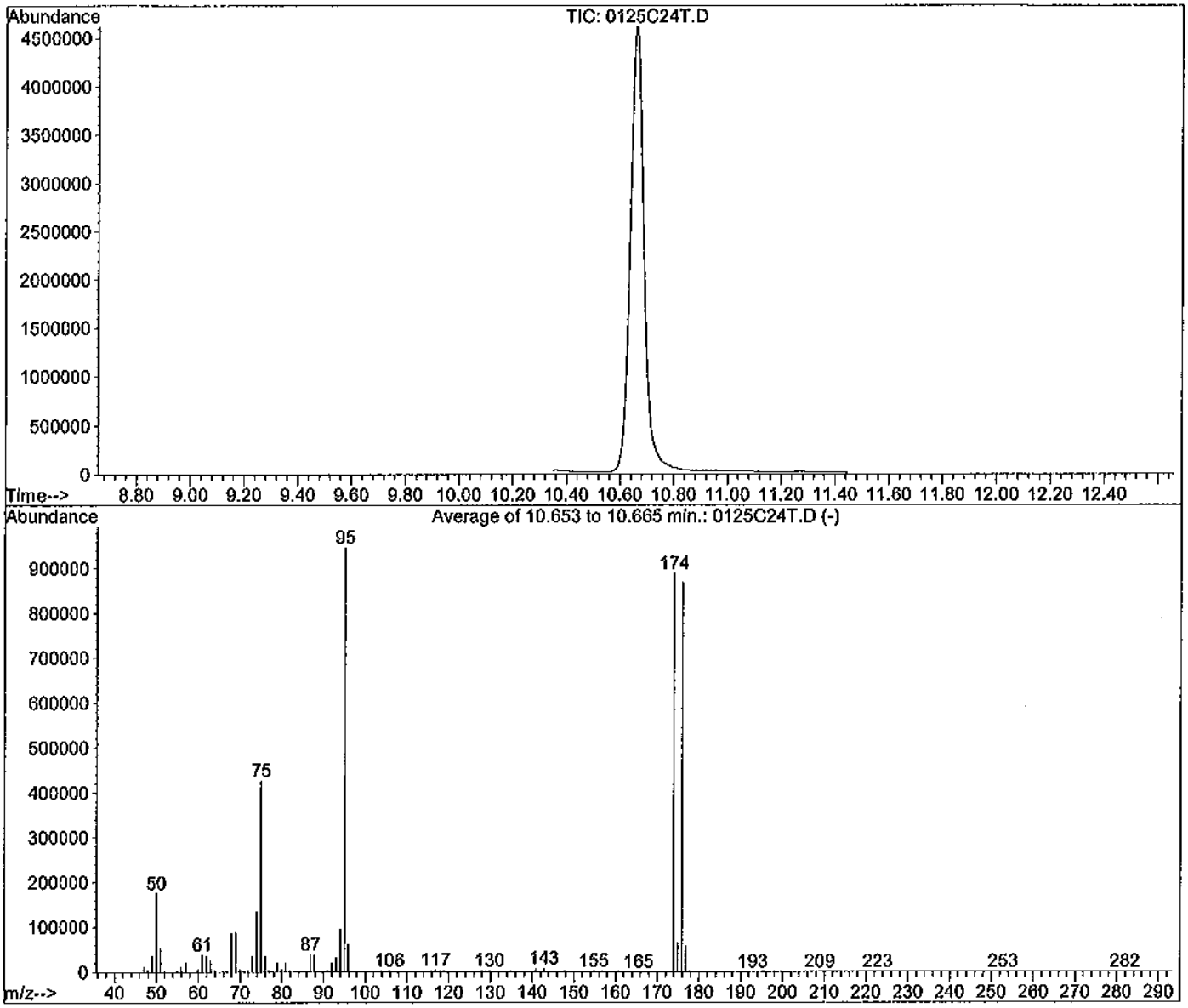
Spectrum Information: Average of 3.381 to 3.387 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	25667	PASS
75	95	30	60	49.2	69075	PASS
95	95	100	100	100.0	140403	PASS
96	95	5	9	7.4	10383	PASS
173	174	0.00	2	1.0	1262	PASS
174	95	50	100	90.4	126869	PASS
175	174	5	9	7.4	9421	PASS
176	174	95	101	99.5	126219	PASS
177	176	5	9	6.5	8238	PASS

Data File : M:\CHICO\DATA\C120125\0125C24T.D
Acq On : 26 Jan 12 16:30
Sample : 25ug/mL BFB Std. 01-12-12
Misc : Water 2uL

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B

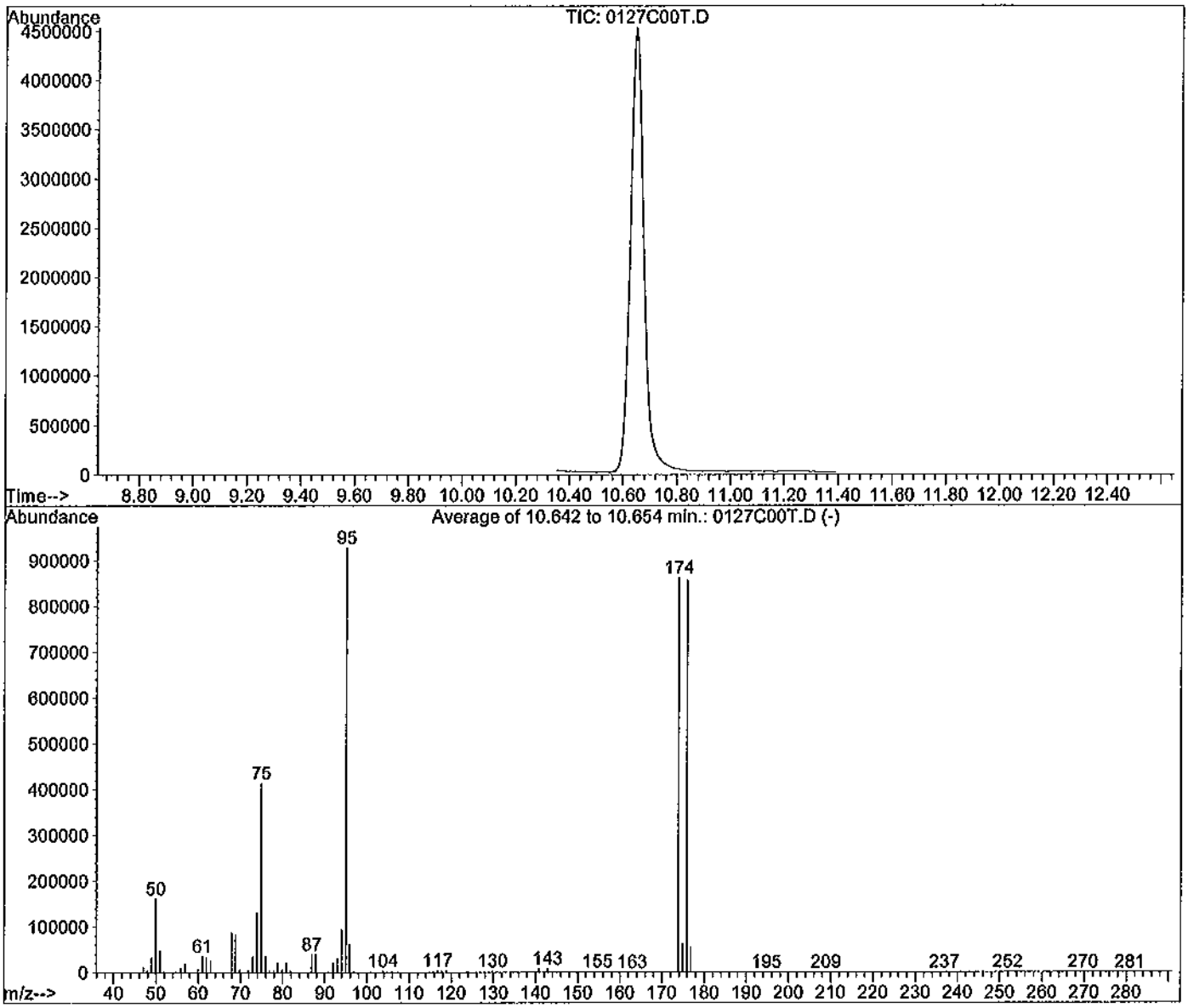


Spectrum Information: Average of 10.653 to 10.665 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	175569	PASS
75	95	30	60	45.1	426726	PASS
95	95	100	100	100.0	947029	PASS
96	95	5	9	6.5	61164	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.9	889685	PASS
175	174	5	9	7.3	64552	PASS
176	174	95	101	97.7	869568	PASS
177	176	5	9	6.5	56475	PASS

Data File : M:\CHICO\DATA\C120125\0127C00T.D Vial: 1
Acq On : 27 Jan 12 9:32 Operator: RS, ARS
Sample : 25ug/mL BFB Std. 01-12-12 Inst : Chico
Misc : 2uL Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Average of 10.642 to 10.654 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	161262	PASS
75	95	30	60	44.7	414003	PASS
95	95	100	100	100.0	927189	PASS
96	95	5	9	6.7	61922	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.9	861461	PASS
175	174	5	9	7.3	62735	PASS
176	174	95	101	99.4	856043	PASS
177	176	5	9	6.5	55251	PASS

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

A

01/25/12

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml
120316-03-SS

Lot #	Storage	Expiry
178557	≤ -10 Degrees C	9/13/14

Solv: P/T Methanol

Method 8260 Gases (SS)
Lot #: 178557 - 29518
Rec: 9/20/11 MFR exp. 09/13/14

01/25/

B

01/25/12

2-Chloroethyl Vinyl Ether Solution (Second Source), 2,000 mg/L, 2 X 0.6 ml
010145-02-02-SS

Lot #	Storage	Expiry
161404	≤ -10 Degrees C	11/10/13

Solv: P/T Methanol

2-Chloroethyl vinyl ether
Lot #: 161404 - 30008
Rec: 11/16/11 MFR exp. 11/10/13

01/25/

C

01/25/12

8260 VOC Liquids Solution (Second Source), 2,000 mg/L, 1 ml
120023-03-SS

Lot #	Storage	Expiry
167814	≤ -10 Degrees C	1/10/13

Solv: P/T Methanol

8260 VOC Liquids (SS)
Lot #: 167814 - 28709
Rec: 4/20/11 MFR exp. 01/10/13

01/25/

D

01/25/12

Vinyl Acetate Solution (Second Source), 2,000 mg/L, 1ml
010372-02-SS

Lot #	Storage	Expiry
183906	≤ -10 Degrees C	4/5/12

Solv: P/T Methanol

Vinyl Acetate (SS)
Lot #: 183906 - 30195
Rec: 1/10/12 MFR exp. 04/05/12

01/2

E

01/25/12

Custom 8260 Solution, Second Source, 2,000 mg/L, 1 ml
120295-01-SS

Lot #	Storage	Expiry
166038	≤ -10 Degrees C	5/18/12

Solv: P/T Methanol

Custom 8260 Solution, 2000mg/L (SS)
Lot #: 166038 - 27766
Rec: 11/19/10 MFR exp. 05/18/12

01/25

01/25/12 F

n-Hexane Solution (Second Source), 1,000 mg/L, 1 ml

020424-02-SS

Lot #	Storage	Expiry
179199		9/21/13

Solvt P/T Methanol

n-Hexane (SS) 1000mg/L

Lot #: 179199 - 29512

Rec: 10/5/11 MFR exp. 09/21/13

01/25/12 G

Hexachloroethane (Second Source) Solution, 1000 mg/L, 1 ml

020449-02-SS

Lot #	Storage	Expiry
183795	≤ -10 Degrees C	1/3/14

Solvt P/T Methanol

Hexachloroethane (SS)

Lot #: 183795 - 30199

Rec: 1/10/12 MFR exp. 01/03/14

01/25/12 H

Acrolein Solution (Second Source), 10,000 mg/L, 2 x 0.5 ml

020119-09-02-SS

Lot #	Storage	Expiry
182703	≤ 6 Degrees C	1/21/12

Solvt Water, HPLC Grade

Lot #: 182703 - 30108

Rec: 12/15/11 MFR exp. 01/21/12

01/25/12 I

VOC Mix 4-3 (second source), 2,000 mg/L, 1 ml

120166-01-SS

Lot #	Storage	Expiry
183778	</= 6 Degrees	9/9/12

Solv: P/T Methanol

VOC Mix 4-3 (SS)

Lot #: 183778 - 29835

Rec: 10/24/11 MFR exp. 09/09/12

01/25/12 J

Heptane Solution (Second Source), 1000 mg/L, 1 ml

o2si Cat. No: 020546-02-SS Exp: 1/19/2012

Lot No: 142276 Storage: </= -10 Degrees C

Solvent: P/T Methanol

Heptane Solution (SS)

Lot #: 142276 - 28578

Rec: 5/11/10 MFR exp. 01/19/12

ion For Research Use Only

poned: _____

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

1/25/12
1/26/12
K-
RS

2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 2 X 0.6 ml

n2si Cat. No: 020145-02-02
Lot No: 160092
2-Chloroethyl vinyl ether
Lot #: 160092 - 26641
Rec: 6/4/10 MFR exp. 05/27/12

Exp: 5/27/2012
Storage: <= -10 Degrees C
Solvent: P/T Methanol
on For Research Use Only
ened: _____

RS 1/25

1/25/12
1/26/12
L-
RS

n-Hexane Solution, 1,000 mg/L, 1 ml
020620-02
Lot # 163378 Storage ≤-10 Degrees C Expiry 8/29/14
Solv: P/T Methanol
R&D only, not human consump. Made in the USA

n-Hexane Solution
Lot #: 163378 - 29232
Rec: 8/5/11 MFR exp. 08/28/15

RS 1/25

1/25/12
1/26/12
M-
RS.

Method 8260 Gases, 2,000 mg/L, 2 X 0.6 ml
120018-83
Lot # 167931 Storage ≤-10 Degrees C Expiry 1/17/14
Solv: P/T Methanol
R&D only, not human consump. Made in the USA

Method 8260 Gases
Lot #: 167931 - 28266
Rec: 2/17/11 MFR exp. 01/17/14

RS 1/25

1/25/12
1/26/12
N-
RS

Heptane Solution, 1000 mg/L, 1 ml
020546-82
Lot # 169174 Storage ≤-10 Degrees C Expiry 2/18/14
Solv: P/T Methanol
R&D only, not human consump. Made in the USA

Heptane Solution
Lot #: 169174 - 28326
Rec: 2/17/11 MFR exp. 02/18/14

RS 1/25

1/25/12
1/26/12
O-
RS

8260B Surrogate Solution, 2,000 mg/L, 5 x 1 ml
120002-01-SPAK
Lot # 178653 Storage ≤-10 Degrees C Expiry 9/11/13
Solv: P/T Methanol
R&D only, not human consump. Made in the USA

8260B Surrogate Solution
Lot #: 178653 - 29570
Rec: 9/22/11 MFR exp. 09/11/13

RS. 1/25

1/25/12
1/26/12
RS.

P-

VOC Mix 4-3, 2,000 mg/L, 1 ml
120166-01
Lot # 178651 Storage ≤ 6 Degrees C Expiry 9/11/13
VOC Mix 4-3, 2000mg/L
Lot #: 178651 - 29911
Rec: 10/24/11 MFR exp. 09/11/13

RS. 1/25

01-25-12Q							
50ug/ml Vol Work Std #7							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	120016-03	Gas Mix	2000	167931-28286	01-25-12M	01/30/12	100
O2SI	020049-02	HEXACHLOROETHANE	1000	164816-29154	01-18-12A	02/07/12	200
O2SI	020228-02	Benzyl Chloride	1000	176701-29775	01-18-12B	02/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3500
01-25-12R							
50ug/ml Vol Work Std #1							
Exp:02/01/12							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	020145-02-02	2-CEVE	2000	160092-26641	01-25-12K	02/07/12	50
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	1950
01-25-12S							
50ug/ml Vol Work Std #8							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	122039-02	Volatile Mix, 20-29	2000	176771-29197	01-16-12C	02/01/12	100
O2SI	120023-03	VOC'S-54 COMP	2000	164454-27875	01-09-12D	02/14/12	100
O2SI	020232-02	Vinyl Acetate	2000	182701-30110	01-18-12C	03/11/12	100
O2SI	020620-02	n-Hexane	1000	163378-29232	01-25-12L	02/07/12	200
O2SI	020546-02	Heptane	1000	169174-28326	01-25-12N	02/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3300
01-25-12T							
50ug/ml Vol Work Std #2							
Exp:02/01/12							
Supplier	ID #	ID	ug/ml				
O2SI	121020-05	HSL'S-Ketone Solution	2000	169173-29212	01-16-12E	02/07/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3900
		01-25-12U	Exp:	02/01/12			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		01-25-12Q	02/01/12	200	
		50ug/ml Vol Work Std #8		01-25-12S	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1600	
		01-25-12V	Exp:	02/01/12			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		01-25-12R	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
		01-25-12W	Exp:	02/01/12			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		01-25-12T	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
01-25-12X							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:02/01/12			ug/ml	Lot #	Code	Date	uL
O2SI	120002-01	8260B Surr Solution	2000	179059-29570	01-25-12O	02/07/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3900
01-25-12Y			Exp:	02/01/12			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		01-25-12X	02/01/12	200	
J&T Brand		Purge & Trap MeOH		01/23/12	06/08/12	1800	

1/25/12
RS.

RS.

01-25-12Z							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/01/12			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	178651-29811	01-25-12P	02/07/12	500
02SI	020229-09	Acrolein	10000	182702-30106	01-18-12E	01/21/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3400

1/25/12 RS.

01-25-12AA							
50ug/ml VOC Std#5							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03-SS	8260 Gases(SS)	2000	178557-29518	01-25-12A	02/01/12	50
02SI	020145-02-02-	2-CEVE	2000	181404-30008	01-25-12B	06/14/12	50
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	1900
01-25-12AB							
50ug/ml VOC Std#6							
Exp:02/01/12							
	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120023-03-SS	VOC'S 54 COMP.	2000	167814-28709	01-25-12C	06/14/12	50
02SI	120296-01	Custom 8260 Solution	2000	166038-27766	01-25-12E	05/18/12	50
02SI	020232-02-SS	Vinyl Acetate(SS)	2000	183906-30195	01-25-12D	04/05/12	50
02SI	020620-02-SS	n-HEXANE	1000	179199-29612	01-25-12F	06/14/12	100
02SI	020049-02-SS	HEXACHLOROETHANE	1000	183795-30199	01-25-12G	06/29/12	100
02SI	020546-02-SS	Heptane(SS)	1000	142276-26578	01-25-12J	01/19/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	1550
01-25-12AC							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/01/12			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	163778-29835	01-25-12I	06/14/12	250
02SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	182703-30108	01-25-12H	01/21/11	50
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	1700

1/25/12 RS.

01-25-12AD							
50ug/ml Vol Work Std #7							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	167931-28286	01-25-12M	01/30/12	100
02SI	020049-02	HEXACHLOROETHANE	1000	164816-29154	01-18-12A	02/07/12	200
02SI	020228-02	Benzyl Chloride	1000	176701-29775	01-18-12B	02/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3500
01-25-12AE							
50ug/ml Vol Work Std #1							
Exp:02/01/12							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	160092-26641	01-25-12K	02/07/12	50
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	1950
01-25-12AF							
50ug/ml Vol Work Std #8							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	176771-29197	01-16-12C	02/01/12	100
02SI	120023-03	VOC'S-54 COMP	2000	164454-27875	01-09-12D	02/14/12	100
02SI	020232-02	Vinyl Acetate	2000	182701-30110	01-18-12C	03/11/12	100
02SI	020620-02	n-Hexane	1000	163378-29232	01-25-12L	02/07/12	200
02SI	020546-02	Heptane	1000	169174-28326	01-25-12N	02/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3300
01-25-12AG							
50ug/ml Vol Work Std #2							
Exp:02/01/12							
Supplier	ID #	ID	ug/ml				
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-29212	01-16-12E	02/07/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3900

1/25/12 RS.

		01-25-12AH	Exp:	02/01/12			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		01-25-12AD	02/01/12	200	
		50ug/ml Vol Work Std #8		01-25-12AF	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1600	
		01-25-12AI	Exp:	02/01/12			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		01-25-12AE	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
		01-25-12AJ	Exp:	02/01/12			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		01-25-12AG	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
01-25-12AK							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:02/01/12			ug/ml	Lot #	Code	Date	uL
O2SI	120002-01	8260B Surr Solution	2000	179059-29570	01-25-12O	02/07/12	100
J&T Brand		Purge & Trap MeOH		K07B34-00570	01/23/12	06/08/12	3900
01-25-12AL			Exp:	02/01/12			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		01-25-12AK	02/01/13	200	
J&T Brand		Purge & Trap MeOH		01/23/12	06/08/12	1800	
01-25-12AM							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/01/12			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120166-01	Volatile Mix 4-3	2000	178651-29811	01-25-12P	02/07/12	500
O2SI	020229-09	Acrolein	10000	182702-30106	01-18-12E	01/21/12	100
J&T Brand		Purge & Trap MeOH		K07B34-00570	01/23/12	06/08/12	3400

1/25/12 RS.

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. For R&D only, not human use.
Solutions®

1/24/12 A- RS

Method 8260 Internal Standard
Lot #: 166255 - 29271
Rec: 8/5/11 MFR exp. 11/18/12

RS

Fluorobenzene Solution, 2,000 mg/L, 1 ml
120132-03
Lot# 169170 Storage ≤ 6 Degrees C Expiry 2/13/14
Solv: P/T Methanol
Made in the USA. For R&D only, not human use.

1/24/12 B- RS

Fluorobenzene
Lot #: 169170 - 29290
Rec: 8/5/11 MFR exp. 02/13/14

RS

8260B Surrogate Solution, 2,000 mg/L, 5 x 1 ml
120002-01-5PAK
Lot# 178653 Storage ≤ -10 Degrees C Expiry 9/11/13
Solv: P/T Methanol
Made in the USA. For R&D only, not human use.

1/24/12 C- RS

8260B Surrogate Solution
Lot #: 178653 - 29571
Rec: 9/22/11 MFR exp. 09/11/13

RS

NOTEBOOK INSERT LABEL

Gasoline
Lot: LB82077 EXP: FEB/2014 STORAGE: ROOM TEMP. 47516-U 1 x 1ml

DATE RECEIVED: 1/26/12 A- RS.

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

RS.

STANDARD TRANSFER LABEL

Date of Preparation:
Exp. Date:
Reference Number:
Storage: EXP: FEB/2014 ROOM TEMP.
Description: Gasoline

Lot #: LB82077 - 29979
Rec: 11/11/11 MFR exp. 02/28/14
gasoline

RESTEK
Catalog # 3

Unleaded gasoline composite
Lot #: A081012 - 29980
Rec: 11/14/11 MFR exp. 05/30/18

Unleaded Gasoline Composite Standard

50000 ug/mL each in P&T Methanol
Lot# A081012 Exp. Date: 05/2018 Store: 0°C or colder

1/26/12 B- RS.

1/26/12 RS.

01/26/12C							
2000ug/ml Gasoline							
Supplier	ID #		Conc. ug/ml	Lot #	Date Code	APPL Exp. Date	uL
Supelco	LB82077	Gasoline	20,000	LB82077-29979	01-26-12A	02/01/14	200
J&T Brand		Purge & Trap MeOH		K07E14-00570	01/23/12	08/02/12	1800
01/26/12D							
2000ug/ml Unleaded Gasoline							
Supplier	ID #		Conc. ug/ml	Lot #	Date Code	APPL Exp. Date	uL
Restek	30205	Unleaded Gasoline	50,000	A081012-29980	01-26-12B	02/01/14	80
J&T Brand		Purge & Trap MeOH		K07E14-00570	01/23/12	08/02/12	1920

RS.

1/26/12 RS.

Gasoline Curve Preparation for 100mL Purge (water)-CHICO			
	Expiration Date:		01/27/12
		50µg/mL Gasoline	Final Vol
Date	Conc.	01-26-12C	w/P&T H2O
Code	µg/L	Exp:01-03-12	mL
01-26-12E	20	1	100
01-26-12F	50	2.5	100
01-26-12G	100	5	100
01-26-12H	300	15	100
01-26-12I	600	30	100
01-26-12J	800	40	100
01-26-12K	1000	50	100

RS.

1/26/12 RS.

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

	Expiration Date:		01/27/12							
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	01-25-12AH	01-25-12AL	01-25-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AJ
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-26-12L	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
01-26-12M	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
01-26-12N	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
01-26-12O	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
01-26-12P	50	n/a	n/a	5	5	5	n/a	5	n/a	5
01-26-12Q	100	n/a	n/a	10	10	10	n/a	10	n/a	10
01-26-12R	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA	Final Vol
01-25-12AM	w/P&T H2O
Exp:02-01-12	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

RS.

1/28/12 RS

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

		Expiration Date:	01/29/12							
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	01-25-12AH	01-25-12AL	01-25-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AJ
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-28-12H	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
01-28-12I	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
01-28-12J	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
01-28-12K	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
01-28-12L	50	n/a	n/a	5	5	5	n/a	5	n/a	5
01-28-12M	100	n/a	n/a	10	10	10	n/a	10	n/a	10
01-28-12N	200	n/a	n/a	20	20	20	n/a	20	n/a	20

1/31/12 RS

250µg/mL TBA	Final Vol
01-25-12AM	w/P&T H2O
Exp:02-01-12	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

2/02 RS

1/31/12 RS

A-

EPA Method 502/524
Fortification Solution, 3-I,
1000 mg/L, 1 ml
122450-02
Lot # 176776 Storage ≤ -10 Degrees C Expiry 7/31/13
Solv: P/T Methanol
solutions®
EPA Method 502/524 Fortification
Lot #: 176776 - 29297
Rec: 8/5/11 MFR exp. 07/31/13

RS.

2/02 RS

Thor 524

01-31-12B

10ug/ml Neo-524 Internal Standard w/ Surrogate			Conc.		Date	Exp.	
			ug/ml	Lot #	Code	Date	uL
02SI	122450-02	524 Fortification Sol	1000	176776-29297	01-31-12A	06/14/12	150
J.T.Baker		Purge & Trap MeOH		K07B34-00571	01/25/12	10/10/12	14850

1/31/12 RS

2/02 RS

CHICO

01-31-12C

250ug/ml 8260 Internal Standard - Chico			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120302-03	Internal Standard Mix	2000	166255-29273	01-28-12D	07/23/12	500
02SI	020132-02	Fluorobenzene Standard	2000	169170-29282	01-28-12E	07/23/12	500
J&T Baker		Purge & Trap MeOH		K07B34-00571	01/25/12	11/14/12	3000

1/31/12 RS.

1/31/12 RS

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

		Expiration Date:	02/01/12							
		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 #1	5µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	01-25-12AH	01-25-12AL	01-25-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AJ
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-31-12D	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-31-12E	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-31-12F	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-31-12G	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-31-12H	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-31-12I	20	n/a	n/a	20	20	40	n/a	20	20	n/a
01-31-12J	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-31-12K	100	n/a	n/a	100	100	100	n/a	100	100	n/a

2/02 RS

250µg/mL TAPD	Final Vol
01-25-12AM	w/P&T H2O
Exp:02-01-12	mL
3	50
5	50
10	50
20	50
25	50
30	50
35	50
40	50

2/02 RS

1/31/12 RS.

L-

Fluorobenzene Solution,
2,000 mg/L, 1 ml
020132-02
Lot # 169170 Storage ≤ 6 Degrees C Expiry 2/13/14
Solvent: P/T Methanol
Fluorobenzene
Lot #: 169170 - 29283
Rec: 8/5/11 MFR exp. 02/13/14

RS.

Injection Log

Directory: M:\CHICO\DATA\C120125\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0125C00T.D	1	25ug/mL BFB Std. 01-12-12	2uL	25 Jan 12 12:41
2	1	0125C07W.D	1	Vol. Std. 01-25-12@0.3ug/L	Water 10mLw/ IS&S:12-06-11	25 Jan 12 17:16
3	1	0125C08W.D	1	Vol. Std. 01-25-12@0.5ug/L	Water 10mLw/ IS&S:12-06-11	25 Jan 12 17:53
4	1	0125C09W.D	1	Vol. Std. 01-25-12@1.0ug/L	Water 10mLw/ IS&S:12-06-11	25 Jan 12 18:30
5	1	0125C10W.D	1	Vol. Std. 01-25-12@5.0ug/L	Water 10mLw/ IS&S:12-06-11	25 Jan 12 19:07
6	1	0125C11W.D	1	Vol. Std. 01-25-12@10ug/L	Water 10mLw/ IS&S:12-06-11	25 Jan 12 19:44
7	1	0125C12W.D	1	Vol. Std. 01-25-12@40ug/L	Water 10mLw/ IS&S:12-06-11	25 Jan 12 20:21
8	1	0125C13W.D	1	Vol. Std. 01-25-12@100ug/L	Water 10mLw/ IS&S:12-06-11	25 Jan 12 20:58
9	1	0127C00T.D	1	25ug/mL BFB Std. 01-12-12	2uL	27 Jan 12 9:32
10	1	0127C02W.D	1	10ug/L Vol Std 01-27-12	Water 10mLw/ IS&S12-06-11	27 Jan 12 10:41
11	1	0127C03W.D	1	120127A LCS-1WC	Water 10mLw/ IS&S12-06-11	27 Jan 12 11:18
12	1	0127C09W.D	1	120127A BLK-1WC	Water 10mLw/ IS&S12-06-11	27 Jan 12 15:01
13	1	0127C13W.D	1	AY53667W01	Water 10mLw/ IS&S12-06-11	27 Jan 12 17:30
14	1	0127C14W.D	1	AY53668W01	Water 10mLw/ IS&S12-06-11	27 Jan 12 18:07

Injection Log

Directory: M:\CHICO\DATA\C120125\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0125C24T.D	1	25ug/mL BFB Std. 01-12-12	Water 2uL	26 Jan 12 16:30
2	1	0125C28W.D	1	VOC Mix Marker	Water 10mLw/ IS:12-06-11	26 Jan 12 18:55
3	1	0125C29W.D	1	Vol. Std. 01-26-12@20ug/L	Water 10mLw/ IS:12-06-11	26 Jan 12 19:32
4	1	0125C30W.D	1	Vol. Std. 01-26-12@50ug/L	Water 10mLw/ IS:12-06-11	26 Jan 12 20:09
5	1	0125C31W.D	1	Vol. Std. 01-26-12@100ug/L	Water 10mLw/ IS:12-06-11	26 Jan 12 20:46
6	1	0125C32W.D	1	Vol. Std. 01-26-12@300ug/L	Water 10mLw/ IS:12-06-11	26 Jan 12 21:24
7	1	0125C33W.D	1	Vol. Std. 01-26-12@600ug/L	Water 10mLw/ IS:12-06-11	26 Jan 12 22:01
8	1	0125C34W.D	1	Vol. Std. 01-26-12@800ug/L	Water 10mLw/ IS:12-06-11	26 Jan 12 22:38
9	1	0125C35W.D	1	Vol. Std. 01-26-12@1000ug/L	Water 10mLw/ IS:12-06-11	26 Jan 12 23:15
10	1	0125C38W.D	1	Second Source 01-26-12	Water 10mLw/ IS:12-06-11	27 Jan 12 1:06
11	1	0127C00T.D	1	25ug/mL BFB Std. 01-12-12	2uL	27 Jan 12 9:32
12	1	0127C05W.D	1	CCV gas 300ug/L	Water 10mLw/ IS:12-06-11	27 Jan 12 12:32
13	1	0127C06W.D	1	LCS gas 300ug/L	Water 10mLw/ IS:12-06-11	27 Jan 12 13:10
14	1	0127C09W.D	1	120127A BLK-1WC	Water 10mLw/ IS:12-06-11	27 Jan 12 15:01
15	1	0127C10W.D	1	AY53669W01	Water 10mLw/ IS:12-06-11	27 Jan 12 15:38
16	1	0127C12W.D	1	AY53666W01	Water 10mLw/ IS:12-06-11	27 Jan 12 16:53
17	1	0127C13W.D	1	AY53667W01	Water 10mLw/ IS:12-06-11	27 Jan 12 17:30
18	1	0127C14W.D	1	AY53668W01	Water 10mLw/ IS:12-06-11	27 Jan 12 18:07

Injection Log

Directory: M:\THOR\DATA\T120131\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0131T00T.D	1	5ng- BFB STD 1-12-12	2ul	31 Jan 12 10:01
2	4	0131T04W.D	1	0.3ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 11:46
3	5	0131T05W.D	1	0.5ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 12:14
4	6	0131T06W.D	1	1.0ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 12:42
5	7	0131T07W.D	1	5.0ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 13:10
6	8	0131T08W.D	1	10ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 13:37
7	9	0131T09W.D	1	20ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 14:05
8	10	0131T10W.D	1	40ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 14:32
9	11	0131T11W.D	1	100ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 15:00
10	17	0131T17W.D	1	120131A LCS-1WT (SS)	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 17:46
11	22	0131T22W.D	1	AY53669W02	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 20:05
12	23	0131T23W.D	1	AY53666W02	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 20:32
13	24	0131T24W.D	1	120131A BLK-1WT	10ml w/5ul of IS: 12-25-11 |	31 Jan 12 21:00

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.22 U	0.5	0.22	0.11	ug/L	01/26/12	01/26/12	#602D-120126A-AY53668

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	51.1	102	80-120	01/26/12	01/26/12	#602D-120126A-AY53668

410

Comments: _____

Printed: 02/07/12 12:53:14 PM
APPL Standard LCS

Matrix Spike Recoveries

METALS

APPL ID: **120126W-53668 MS - 163685**

Sample ID: AY53668

Client ID: ES059

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	50.0	0.11	47.7	47.2	95.2	94.2	1.1	20	80-120	01/26/12	01/26/12	01/26/12	01/26/12	163685	AY53668

411

Comments: _____

METALS
Sample Data

APPL, INC.

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/1022-015
Sample ID: ES057
Sample Collection Date: 01/24/12

ARF: 66795
APPL ID: AY53666

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.19J	0.5	0.22	0.11	ug/L	1	01/26/12	01/26/12

J = Estimated value.

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\104SMPL.D\104SMPL.D#
Date Acquired: Jan 26 2012 10:16 pm
Operator: NBS
Sample Name: AY53666W08
Misc Info: 120126A-3015
Vial Number: 2506
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	0.00	ug/l	0.00	232.41	1000	
11 B	36.77	ug/l	40.85	1.31	1000	
23 Na	44070.00	ug/l	48961.77	0.48	25000	>Cal
24 Mg	13330.00	ug/l	14809.63	0.98	50000	
27 Al	12.42	ug/l	13.80	58.09	20000	
39 K	898.50	ug/l	998.23	0.61	20000	
44 Ca	11190.00	ug/l	12432.09	0.43	50000	
47 Ti	0.50	ug/l	0.55	22.50	1000	
51 V	0.05	ug/l	0.06	96.44	1000	
52 Cr	0.83	ug/l	0.92	2.30	1000	
55 Mn	242.70	ug/l	269.64	0.70	1000	
56 Fe	2268.00	ug/l	2519.75	1.00	20000	
59 Co	0.20	ug/l	0.23	6.86	1000	
60 Ni	2.63	ug/l	2.92	1.50	1000	
63 Cu	0.99	ug/l	1.10	2.27	1000	
65 Cu	1.00	ug/l	1.11	3.98	1000	
66 Zn	14.15	ug/l	15.72	1.54	1000	
75 As	-0.11	ug/l	-0.12	16.62	1000	
78 Se	0.04	ug/l	0.05	13.91	1000	
78 Se	0.38	ug/l	0.42	9.77	1000	
88 Sr	102.90	ug/l	114.32	0.61	1000	
88 Sr	104.10	ug/l	115.66	0.28	1000	
95 Mo	0.09	ug/l	0.10	8.99	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	0.00	ug/l	0.00	44.85	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.03	ug/l	0.03	4.63	1000	
118 Sn	0.12	ug/l	0.14	38.39	#######	
118 Sn	0.11	ug/l	0.13	13.66	#######	
118 Sn	0.14	ug/l	0.15	21.73	1000	
121 Sb	0.03	ug/l	0.03	24.03	1000	
137 Ba	1.72	ug/l	1.91	3.61	1000	
205 Tl	0.02	ug/l	0.02	9.60	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	0.17	ug/l	0.19	5.26	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	652904.19	0.53	535705.94	121.9	70 - 120	IS Fai
45 Sc	300287.16	1.22	277469.19	108.2	70 - 120	
45 Sc	118705.70	0.24	107568.42	110.4	70 - 120	
45 Sc	1260923.40	0.68	1040297.70	121.2	70 - 120	IS Fai
72 Ge	80995.56	2.11	80174.67	101.0	70 - 120	
72 Ge	70661.37	1.06	64865.30	108.9	70 - 120	
72 Ge	236590.52	1.49	219085.67	108.0	70 - 120	
115 In	1073643.80	0.90	1033595.60	103.9	70 - 120	
115 In	654829.06	0.96	609098.25	107.5	70 - 120	
115 In	1745107.00	1.04	1638831.60	106.5	70 - 120	
159 Tb	2630892.50	0.62	2443833.50	107.7	70 - 120	
165 Ho	2607504.50	0.42	2396067.30	108.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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/1022-015
Sample ID: ES058
Sample Collection Date: 01/24/12

ARF: 66795
APPL ID: AY53667

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.20J	0.5	0.22	0.11	ug/L	1	01/26/12	01/26/12

J = Estimated value.

Printed: 02/07/12 12:53:21 PM
APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\105SMPL.D\105SMPL.D#
Date Acquired: Jan 26 2012 10:23 pm
Operator: NBS
Sample Name: AY53667N08
Misc Info: 120126A-3015
Vial Number: 2507
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	0.00	ug/l	0.00	1078.30	1000	
11 B	24.74	ug/l	27.49	0.29	1000	
23 Na	201000.00	ug/l	223311.00	0.43	25000	>Cal
24 Mg	1002.00	ug/l	1113.22	1.28	50000	
27 Al	9.18	ug/l	10.20	58.23	20000	
39 K	5929.00	ug/l	6587.12	0.06	20000	
44 Ca	265800.00	ug/l	295303.80	0.05	50000	>Cal
47 Ti	0.28	ug/l	0.31	50.78	1000	
51 V	-0.51	ug/l	-0.57	2.82	1000	
52 Cr	28.69	ug/l	31.87	0.80	1000	
55 Mn	0.22	ug/l	0.24	52.73	1000	
56 Fe	17.33	ug/l	19.25	42.02	20000	
59 Co	5.89	ug/l	6.54	1.65	1000	
60 Ni	20.92	ug/l	23.24	1.06	1000	
63 Cu	1.50	ug/l	1.66	0.90	1000	
65 Cu	1.69	ug/l	1.88	2.24	1000	
66 Zn	1.31	ug/l	1.45	4.93	1000	
75 As	0.00	ug/l	0.00	244.15	1000	
78 Se	1.54	ug/l	1.71	4.18	1000	
78 Se	1.87	ug/l	2.08	9.11	1000	
88 Sr	6276.00	ug/l	6972.64	0.86	1000	>Cal
88 Sr	6660.00	ug/l	7399.26	0.71	1000	>Cal
95 Mo	0.73	ug/l	0.81	2.49	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	0.01	ug/l	0.01	15.69	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	0.04	ug/l	0.04	41.89	1000	
118 Sn	-0.02	ug/l	-0.03	31.87	########	
118 Sn	-0.05	ug/l	-0.06	35.35	########	
118 Sn	-0.04	ug/l	-0.05	13.76	1000	
121 Sb	0.01	ug/l	0.01	66.47	1000	
137 Ba	262.40	ug/l	291.53	0.69	1000	
205 Tl	0.02	ug/l	0.02	7.91	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	0.18	ug/l	0.20	3.86	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	633635.88	0.87	535705.94	118.3	70 - 120	
45 Sc	283349.72	1.01	277469.19	102.1	70 - 120	
45 Sc	113758.38	0.42	107568.42	105.8	70 - 120	
45 Sc	1135340.60	0.92	1040297.70	109.1	70 - 120	
72 Ge	75923.02	1.85	80174.67	94.7	70 - 120	
72 Ge	64945.68	2.03	64865.30	100.1	70 - 120	
72 Ge	218476.52	0.82	219085.67	99.7	70 - 120	
115 In	998462.81	1.19	1033595.60	96.6	70 - 120	
115 In	603268.81	0.83	609098.25	99.0	70 - 120	
115 In	1634251.60	0.18	1638831.60	99.7	70 - 120	
159 Tb	2527268.50	0.66	2443833.50	103.4	70 - 120	
165 Ho	2497306.00	0.80	2396067.30	104.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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 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/1022-015
Sample ID: ES059
Sample Collection Date: 01/24/12

ARF: 66795
APPL ID: AY53668

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.11 J	0.5	0.22	0.11	ug/L	1	01/26/12	01/26/12

J = Estimated value.

Printed: 02/07/12 12:53:21 PM
APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\106SMPL.D\106SMPL.D#
Date Acquired: Jan 26 2012 10:29 pm
Operator: NBS
Sample Name: AY53668W08
Misc Info: 120126A-3015
Vial Number: 2508
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	0.00	ug/l	0.00	995.47	1000	
11 B	25.34	ug/l	28.15	0.67	1000	
23 Na	201000.00	ug/l	223311.00	1.17	25000	>Cal
24 Mg	1470.00	ug/l	1633.17	0.69	50000	
27 Al	14.25	ug/l	15.83	9.85	20000	
39 K	5849.00	ug/l	6498.24	0.28	20000	
44 Ca	266000.00	ug/l	295526.00	0.40	50000	>Cal
47 Ti	0.22	ug/l	0.24	36.12	1000	
51 V	-0.53	ug/l	-0.59	3.13	1000	
52 Cr	28.97	ug/l	32.19	0.44	1000	
55 Mn	0.18	ug/l	0.20	18.68	1000	
56 Fe	31.18	ug/l	34.64	8.57	20000	
59 Co	5.92	ug/l	6.57	1.19	1000	
60 Ni	21.11	ug/l	23.45	1.63	1000	
63 Cu	1.86	ug/l	2.06	1.92	1000	
65 Cu	2.01	ug/l	2.23	0.67	1000	
66 Zn	9.00	ug/l	9.99	5.01	1000	
75 As	0.00	ug/l	0.00	386.64	1000	
78 Se	1.47	ug/l	1.64	1.68	1000	
78 Se	2.01	ug/l	2.23	9.17	1000	
88 Sr	6310.00	ug/l	7010.41	1.60	1000	>Cal
88 Sr	6767.00	ug/l	7518.14	0.62	1000	>Cal
95 Mo	0.77	ug/l	0.85	2.34	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	0.01	ug/l	0.01	17.82	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	0.04	ug/l	0.05	19.24	1000	
118 Sn	0.05	ug/l	0.05	17.13	########	
118 Sn	0.03	ug/l	0.03	28.39	########	
118 Sn	0.04	ug/l	0.04	34.17	1000	
121 Sb	0.01	ug/l	0.02	59.97	1000	
137 Ba	266.20	ug/l	295.75	0.73	1000	
205 Tl	0.02	ug/l	0.02	7.73	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	0.10	ug/l	0.11	2.48	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	636858.38	0.26	535705.94	118.9	70 - 120	
45 Sc	279849.91	0.42	277469.19	100.9	70 - 120	
45 Sc	113431.90	1.28	107568.42	105.5	70 - 120	
45 Sc	1146472.90	0.77	1040297.70	110.2	70 - 120	
72 Ge	75780.34	2.22	80174.67	94.5	70 - 120	
72 Ge	65292.16	2.08	64865.30	100.7	70 - 120	
72 Ge	217540.13	0.80	219085.67	99.3	70 - 120	
115 In	978498.50	1.16	1033595.60	94.7	70 - 120	
115 In	605734.50	1.75	609098.25	99.4	70 - 120	
115 In	1644587.60	0.80	1638831.60	100.4	70 - 120	
159 Tb	2574505.50	1.42	2443833.50	105.3	70 - 120	
165 Ho	2529262.00	0.70	2396067.30	105.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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
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: 66795 SDG: 66795
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 01/26/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:30	%R(1)	True CCV1	Found 11:57	%R(1)	True CCV1	Found 21:22	%R(1)	
Lead (Pb)	100	101.9	102	50	50.82	102	50	48.83	97.7	P

(1) Control Limits: Metals 90-110

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.
ARF No: 66795 SDG: 66795
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 01/26/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:30	%R(1)	True CCV1	Found 22:56	%R(1)	True CCV1	Found 23:36	%R(1)	
Lead (Pb)	100	101.9	102	50	49.48	99.0	50	49.57	99.1	P

(1) Control Limits: Metals 90-110

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66795 SDG: 66795

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 01/26/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	11:50		12:03		21:36		23:10		21:43				
Lead (Pb)	.20	U	.20	U	.20	U	.20	U	.20	U	P		

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66795 SDG: 66795

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 01/26/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	11:50		23:50						21:43		
Lead (Pb)	.20	U	.20	U					.20	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Environet, Inc.
ARF No.:	66795	SDG:	66795
ICP ID Number:	Optimus	ICS Source:	Environmental Express

Analysis Date: 01/26/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 12:36	Sol AB 12:43	%R(1)
Lead (Pb)		500	0.9753	454	90.8

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

ES059

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66795 SDG: 66795

Analysis Date: 01/26/12 Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	233.988		0.1077699		277.500	84.3		

Comments:

01/26/12 22:29 AY53668W08

01/26/12 23:16 AY53668W08-A

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\113SMPL.D\113SMPL.D#
Date Acquired: Jan 26 2012 11:16 pm
Operator: NBS
Sample Name: AY53668W08-A
Misc Info: 120126A-3015
Vial Number: 2511
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	39.32	ug/l	43.68	0.99	1000	
11 B	238.90	ug/l	265.42	0.95	1000	
23 Na	221200.00	ug/l	245753.20	1.23	25000	>Cal
24 Mg	22670.00	ug/l	25186.37	0.79	50000	
27 Al	1891.00	ug/l	2100.90	0.65	20000	
39 K	10000.00	ug/l	11110.00	1.09	20000	
44 Ca	281500.00	ug/l	312746.50	0.59	50000	>Cal
47 Ti	228.20	ug/l	253.53	0.77	1000	
51 V	233.80	ug/l	259.75	0.52	1000	
52 Cr	260.30	ug/l	289.19	1.05	1000	
55 Mn	232.10	ug/l	257.86	0.67	1000	
56 Fe	929.00	ug/l	1032.12	1.78	20000	
59 Co	204.00	ug/l	226.64	0.96	1000	
60 Ni	221.00	ug/l	245.53	1.02	1000	
63 Cu	188.60	ug/l	209.53	0.72	1000	
65 Cu	188.40	ug/l	209.31	0.83	1000	
66 Zn	336.60	ug/l	373.96	0.82	1000	
75 As	195.30	ug/l	216.98	0.58	1000	
78 Se	156.90	ug/l	174.32	0.04	1000	
78 Se	159.20	ug/l	176.87	1.02	1000	
88 Sr	6441.00	ug/l	7155.95	0.82	1000	>Cal
88 Sr	6825.00	ug/l	7582.58	0.17	1000	>Cal
95 Mo	228.60	ug/l	253.97	0.89	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	67.44	ug/l	74.93	2.50	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	38.86	ug/l	43.17	0.48	1000	
118 Sn	246.30	ug/l	273.64	0.77	########	
118 Sn	251.40	ug/l	279.31	0.48	########	
118 Sn	244.30	ug/l	271.42	1.08	1000	
121 Sb	214.20	ug/l	237.98	1.38	1000	
137 Ba	492.60	ug/l	547.28	0.42	1000	
205 Tl	211.60	ug/l	235.09	0.72	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	210.80	ug/l	234.20	0.88	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	624009.69	0.89	535705.94	116.5	70 - 120	
45 Sc	267615.69	0.60	277469.19	96.4	70 - 120	
45 Sc	107522.23	1.05	107568.42	100.0	70 - 120	
45 Sc	1089390.30	0.91	1040297.70	104.7	70 - 120	
72 Ge	70747.43	0.65	80174.67	88.2	70 - 120	
72 Ge	63444.31	1.84	64865.30	97.8	70 - 120	
72 Ge	209730.91	1.02	219085.67	95.7	70 - 120	
115 In	959492.63	0.85	1033595.60	92.8	70 - 120	
115 In	579286.38	1.01	609098.25	95.1	70 - 120	
115 In	1584750.90	0.29	1638831.60	96.7	70 - 120	
159 Tb	2480540.50	0.79	2443833.50	101.5	70 - 120	
165 Ho	2472149.30	0.67	2396067.30	103.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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

A.P.P.L. INC.

9

ICP SERIAL DILUTION

CLIENT SAMPLE NO.

ES059

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66795 SDG: 66795

Matrix: water

Analysis Date: 01/26/12 Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	%D	Q	M
Lead (Pb)	0.1077699		0.02311292		NA		

Comments:

01/26/12 22:29 AY53668W08

01/26/12 23:23 AY53668W08-1/5

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\114SMPL.D\114SMPL.D#
Date Acquired: Jan 26 2012 11:23 pm
Operator: NBS
Sample Name: AY53668W08-1/5
Misc Info: 120126A-3015
Vial Number: 2512
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
Sample Type: Sample
Prep Dil Factor: 5.56
Total Dil Factor: 5.56

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	0.00	ug/l	0.00	118.18	1000	
11 B	6.91	ug/l	38.41	2.66	1000	
23 Na	42980.00	ug/l	238796.88	0.75	25000	>Cal
24 Mg	316.10	ug/l	1756.25	0.99	50000	
27 Al	6.12	ug/l	34.02	40.85	20000	
39 K	1353.00	ug/l	7517.27	0.99	20000	
44 Ca	56800.00	ug/l	315580.80	0.33	50000	>Cal
47 Ti	0.15	ug/l	0.84	57.90	1000	
51 V	1.12	ug/l	6.20	1.70	1000	
52 Cr	6.24	ug/l	34.68	1.30	1000	
55 Mn	0.16	ug/l	0.86	53.90	1000	
56 Fe	11.11	ug/l	61.73	44.58	20000	
59 Co	1.28	ug/l	7.09	0.63	1000	
60 Ni	4.65	ug/l	25.82	0.58	1000	
63 Cu	0.44	ug/l	2.47	2.80	1000	
65 Cu	0.47	ug/l	2.60	2.07	1000	
66 Zn	2.21	ug/l	12.25	3.89	1000	
75 As	0.57	ug/l	3.15	4.81	1000	
78 Se	0.38	ug/l	2.11	12.70	1000	
78 Se	0.63	ug/l	3.48	19.10	1000	
88 Sr	1238.00	ug/l	6878.33	1.37	1000	>Cal
88 Sr	1329.00	ug/l	7383.92	0.61	1000	>Cal
95 Mo	0.21	ug/l	1.18	6.62	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	0.11	ug/l	0.61	9.61	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.01	ug/l	0.04	44.44	1000	
118 Sn	0.55	ug/l	3.03	4.00	#######	
118 Sn	0.65	ug/l	3.60	6.23	#######	
118 Sn	0.61	ug/l	3.36	3.15	1000	
121 Sb	0.30	ug/l	1.69	0.80	1000	
137 Ba	52.89	ug/l	293.86	0.47	1000	
205 Tl	0.05	ug/l	0.29	1.94	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	0.00	ug/l	0.02	32.09	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	749296.88	0.77	535705.94	139.9	70 - 120	IS Fai
45 Sc	313577.09	0.64	277469.19	113.0	70 - 120	
45 Sc	110596.10	0.18	107568.42	102.8	70 - 120	
45 Sc	1129593.80	0.28	1040297.70	108.6	70 - 120	
72 Ge	83600.91	1.85	80174.67	104.3	70 - 120	
72 Ge	66270.43	2.37	64865.30	102.2	70 - 120	
72 Ge	232729.50	0.76	219085.67	106.2	70 - 120	
115 In	1177160.50	0.58	1033595.60	113.9	70 - 120	
115 In	638731.56	1.36	609098.25	104.9	70 - 120	
115 In	1693169.10	0.46	1638831.60	103.3	70 - 120	
159 Tb	2578817.80	0.68	2443833.50	105.5	70 - 120	
165 Ho	2565506.50	1.06	2396067.30	107.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.D#

4 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\005CAL
Date Acquired: Jan 26 2012 10:56 am
Operator: NBS
Sample Name: Calibration Blank
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 10:53 am
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	535705.88	A	8370.00	1.56
7	(Li)	39495.90	P	240.30	0.61
9	Be	6.67	P	6.67	100.00
11	B	3130.57	P	219.60	7.01
23	Na	30079.92	P	247.90	0.82
24	Mg	542.25	P	18.36	3.39
27	Al	333.35	P	32.15	9.64
39	K	26892.91	P	362.70	1.35
44	Ca	603.91	P	77.08	12.76
45	Sc	277469.19	A	2281.00	0.82
45	Sc	107568.40	A	1742.00	1.62
45	Sc	1040298.00	A	2252.00	0.22
47	Ti	15.11	P	1.54	10.19
51	V	3039.47	P	34.06	1.12
52	Cr	720.47	P	40.32	5.60
55	Mn	212.89	P	30.82	14.48
56	Fe	16239.80	P	466.50	2.87
59	Co	25.78	P	4.07	15.80
60	Ni	82.22	P	16.29	19.81
63	Cu	351.57	P	10.10	2.87
65	Cu	152.89	P	10.36	6.78
66	Zn	164.89	P	16.88	10.24
72	Ge	80174.68	A	1253.00	1.56
72	Ge	64865.30	A	1130.00	1.74
72	Ge	219085.70	A	1438.00	0.66
75	As	145.56	P	2.84	1.95
78	Se	2.22	P	0.51	22.91
78	Se	62.78	P	5.35	8.52
88	Sr	37.78	P	8.39	22.21
88	Sr	165.56	P	24.11	14.56
95	Mo	62.22	P	22.69	36.47
106	(Cd)	5.56	P	3.85	69.28
107	Ag	21.11	P	10.71	50.73
108	(Cd)	3.33	P	0.00	0.00
111	Cd	5.93	P	4.06	68.43
115	In	1033595.00	A	6574.00	0.64
115	In	609098.19	A	6028.00	0.99
115	In	1638832.00	A	13920.00	0.85
118	Sn	553.37	P	64.30	11.62
118	Sn	385.58	P	20.37	5.28
118	Sn	855.61	P	56.41	6.59
121	Sb	1257.88	P	30.98	2.46
137	Ba	31.11	P	3.85	12.37
159	Tb	2443834.00	A	27590.00	1.13
165	Ho	2396067.00	A	8871.00	0.37
205	Tl	77.78	P	17.11	22.00
206	(Pb)	226.68	P	45.83	20.22
207	(Pb)	193.34	P	14.53	7.52
208	Pb	905.60	P	67.03	7.40

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\006CALS.D\006CALS.D#
Date Acquired: Jan 26 2012 11:03 am
Operator: NBS
Sample Name: 120126 Standard 1
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:00 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	545162.88	A	4331.00	0.79	0.0000
7 (Li)	39670.02	P	378.80	0.95	0.0000
9 Be	288.90	P	22.20	7.68	0.0000
11 B	3043.75	P	96.87	3.18	0.0000
23 Na	32290.19	P	187.30	0.58	0.0000
24 Mg	2179.12	P	91.02	4.18	0.0000
27 Al	624.48	P	25.24	4.04	0.0000
39 K	27910.43	P	146.60	0.53	0.0000
44 Ca	741.33	P	24.93	3.36	0.0000
45 Sc	274760.00	A	254.20	0.09	0.0000
45 Sc	107641.80	A	907.70	0.84	0.0000
45 Sc	1036915.00	A	10630.00	1.03	0.0000
47 Ti	28.44	P	7.70	27.06	0.0000
51 V	3513.36	P	24.67	0.70	0.0000
52 Cr	1086.72	P	30.20	2.78	0.0000
55 Mn	474.24	P	24.67	5.20	0.0000
56 Fe	22995.53	P	207.90	0.90	0.0000
59 Co	572.91	P	28.17	4.92	0.0000
60 Ni	228.45	P	2.78	1.22	0.0000
63 Cu	748.47	P	50.82	6.79	0.0000
65 Cu	377.79	P	20.93	5.54	0.0000
66 Zn	2836.31	P	13.86	0.49	0.0000
72 Ge	78323.42	A	1279.00	1.63	0.0000
72 Ge	64223.30	A	1349.00	2.10	0.0000
72 Ge	221635.50	A	2396.00	1.08	0.0000
75 As	194.56	P	9.19	4.72	0.0000
78 Se	20.78	P	1.02	4.90	0.0000
78 Se	70.44	P	3.24	4.60	0.0000
88 Sr	506.69	P	37.57	7.41	0.0000
88 Sr	2234.70	P	127.10	5.69	0.0000
95 Mo	437.80	P	12.62	2.88	0.0000
106 (Cd)	28.89	P	5.09	17.63	0.0000
107 Ag	581.14	P	24.57	4.23	0.0000
108 (Cd)	24.45	P	15.40	63.00	0.0000
111 Cd	237.68	P	29.37	12.36	0.0000
115 In	1032958.00	A	5753.00	0.56	0.0000
115 In	610172.31	A	6013.00	0.99	0.0000
115 In	1607520.00	A	2559.00	0.16	0.0000
118 Sn	993.41	P	72.19	7.27	0.0000
118 Sn	591.15	P	7.70	1.30	0.0000
118 Sn	1465.68	P	61.50	4.20	0.0000
121 Sb	2020.22	P	60.84	3.01	0.0000
137 Ba	323.35	P	15.28	4.73	0.0000
159 Tb	2444268.00	A	34490.00	1.41	0.0000
165 Ho	2403183.00	A	36250.00	1.51	0.0000
205 Tl	2368.07	P	60.51	2.56	0.0000
206 (Pb)	987.85	P	35.02	3.55	0.0000
207 (Pb)	864.51	P	52.32	6.05	0.0000
208 Pb	3987.05	P	75.51	1.89	0.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	545162.88	0.79	535705.94	101.8	70 -	120	
45 Sc	274759.97	0.09	277469.19	99.0	70 -	120	
45 Sc	107641.76	0.84	107568.42	100.1	70 -	120	
45 Sc	1036915.40	1.03	1040297.70	99.7	70 -	120	
72 Ge	78323.41	1.63	80174.67	97.7	70 -	120	
72 Ge	64223.30	2.10	64865.30	99.0	70 -	120	
72 Ge	221635.55	1.08	219085.67	101.2	70 -	120	
115 In	1032958.40	0.56	1033595.60	99.9	70 -	120	
115 In	610172.31	0.99	609098.25	100.2	70 -	120	
115 In	1607520.40	0.16	1638831.60	98.1	70 -	120	
159 Tb	2444267.80	1.41	2443833.50	100.0	70 -	120	
165 Ho	2403182.80	1.51	2396067.30	100.3	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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\12A26k00.B\007CALS.D\007CALS.D#
Date Acquired: Jan 26 2012 11:09 am
Operator: NBS
Sample Name: 120126 Standard 2
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:07 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	546943.31	A	2855.00	0.52	0.0000
7 (Li)	39675.25	P	297.80	0.75	1.0000
9 Be	2733.66	P	98.22	3.59	1.0000
11 B	5093.27	P	58.36	1.15	-1.0000
23 Na	45317.27	P	443.90	0.98	1.0000
24 Mg	17249.35	P	108.00	0.63	1.0000
27 Al	3553.89	P	78.62	2.21	1.0000
39 K	35175.91	P	261.50	0.74	1.0000
44 Ca	1593.17	P	55.56	3.49	1.0000
45 Sc	275270.19	A	1510.00	0.55	0.0000
45 Sc	109114.40	A	1861.00	1.71	0.0000
45 Sc	1043117.00	A	13800.00	1.32	0.0000
47 Ti	144.00	P	13.13	9.12	1.0000
51 V	6453.95	P	66.08	1.02	1.0000
52 Cr	4377.15	P	115.20	2.63	1.0000
55 Mn	3109.71	P	55.45	1.78	1.0000
56 Fe	90713.68	P	649.60	0.72	1.0000
59 Co	5482.87	P	117.40	2.14	1.0000
60 Ni	1428.53	P	29.34	2.05	1.0000
63 Cu	4040.61	P	55.49	1.37	1.0000
65 Cu	1974.83	P	79.15	4.01	1.0000
66 Zn	2492.25	P	94.71	3.80	1.0000
72 Ge	80549.45	A	251.90	0.31	0.0000
72 Ge	64661.49	A	2749.00	4.25	0.0000
72 Ge	220155.70	A	3331.00	1.51	0.0000
75 As	607.68	P	11.05	1.82	1.0000
78 Se	199.00	P	8.21	4.13	1.0000
78 Se	146.67	P	4.04	2.76	1.0000
88 Sr	4391.95	P	60.51	1.38	1.0000
88 Sr	19492.73	P	341.50	1.75	1.0000
95 Mo	3972.92	P	131.80	3.32	1.0000
106 (Cd)	211.12	P	44.39	21.03	1.0000
107 Ag	5596.84	P	62.77	1.12	1.0000
108 (Cd)	173.34	P	40.42	23.32	1.0000
111 Cd	2323.50	P	29.31	1.26	1.0000
115 In	1030072.00	A	2007.00	0.19	0.0000
115 In	611067.81	A	3479.00	0.57	0.0000
115 In	1627007.00	A	6844.00	0.42	0.0000
118 Sn	4420.84	P	136.00	3.08	1.0000
118 Sn	2769.25	P	85.28	3.08	1.0000
118 Sn	6701.83	P	103.60	1.55	1.0000
121 Sb	8896.44	P	86.65	0.97	1.0000
137 Ba	3046.00	P	71.85	2.36	1.0000
159 Tb	2439265.00	A	4765.00	0.20	0.0000
165 Ho	2409721.00	A	5409.00	0.22	0.0000
205 Tl	23027.31	P	347.70	1.51	1.0000
206 (Pb)	8090.54	P	106.40	1.32	1.0000
207 (Pb)	6896.44	P	141.50	2.05	1.0000
208 Pb	32303.35	P	106.70	0.33	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	546943.25	0.52	535705.94	102.1	70 -	120	
45 Sc	275270.25	0.55	277469.19	99.2	70 -	120	
45 Sc	109114.41	1.71	107568.42	101.4	70 -	120	
45 Sc	1043117.40	1.32	1040297.70	100.3	70 -	120	
72 Ge	80549.45	0.31	80174.67	100.5	70 -	120	
72 Ge	64661.48	4.25	64865.30	99.7	70 -	120	
72 Ge	220155.67	1.51	219085.67	100.5	70 -	120	
115 In	1030071.60	0.19	1033595.60	99.7	70 -	120	
115 In	611067.81	0.57	609098.25	100.3	70 -	120	
115 In	1627007.00	0.42	1638831.60	99.3	70 -	120	
159 Tb	2439264.80	0.20	2443833.50	99.8	70 -	120	
165 Ho	2409720.80	0.22	2396067.30	100.6	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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\12A26k00.B\008CALS.D\008CALS.D#
Date Acquired: Jan 26 2012 11:16 am
Operator: NBS
Sample Name: 120126 Standard 3
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:13 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	536481.19	A	3876.00	0.72	0.0000
7 (Li)	39101.08	P	215.00	0.55	0.5973
9 Be	135760.80	P	767.50	0.57	1.0000
11 B	110951.40	P	240.90	0.22	0.9923
23 Na	761648.13	P	1284.00	0.17	0.9988
24 Mg	820669.63	P	3563.00	0.43	1.0000
27 Al	155483.70	P	505.60	0.33	1.0000
39 K	439739.31	P	383.40	0.09	0.9996
44 Ca	55098.75	P	350.40	0.64	0.9992
45 Sc	279103.50	A	1771.00	0.63	0.0000
45 Sc	108300.70	A	1468.00	1.36	0.0000
45 Sc	1024229.00	A	10820.00	1.06	0.0000
47 Ti	6274.75	P	30.04	0.48	1.0000
51 V	160741.91	P	368.60	0.23	0.9992
52 Cr	178404.41	P	342.50	0.19	1.0000
55 Mn	138671.70	P	761.30	0.55	1.0000
56 Fe	3213098.00	A	22730.00	0.71	1.0000
59 Co	260232.30	P	1482.00	0.57	1.0000
60 Ni	66005.89	P	172.80	0.26	1.0000
63 Cu	175321.91	P	526.80	0.30	1.0000
65 Cu	85287.88	P	113.50	0.13	0.9997
66 Zn	36596.32	P	185.80	0.51	0.4746
72 Ge	79277.92	A	621.10	0.78	0.0000
72 Ge	63798.69	A	1850.00	2.90	0.0000
72 Ge	216764.50	A	1811.00	0.84	0.0000
75 As	23886.50	P	165.90	0.69	1.0000
78 Se	9368.82	P	38.67	0.41	1.0000
78 Se	3665.59	P	33.77	0.92	1.0000
88 Sr	211141.50	P	912.40	0.43	1.0000
88 Sr	944792.19	P	9697.00	1.03	1.0000
95 Mo	189179.30	P	1270.00	0.67	1.0000
106 (Cd)	9949.39	P	82.27	0.83	0.9999
107 Ag	265897.00	P	1102.00	0.41	1.0000
108 (Cd)	7307.69	P	200.60	2.75	0.9997
111 Cd	111409.60	P	622.70	0.56	1.0000
115 In	1015661.00	A	9142.00	0.90	0.0000
115 In	605840.88	A	5111.00	0.84	0.0000
115 In	1586545.00	A	2696.00	0.17	0.0000
118 Sn	195697.50	P	657.80	0.34	0.9999
118 Sn	120164.80	P	1197.00	1.00	0.9999
118 Sn	296849.19	P	2285.00	0.77	1.0000
121 Sb	378200.50	P	3727.00	0.99	1.0000
137 Ba	149278.00	P	875.00	0.59	1.0000
159 Tb	2408067.00	A	17780.00	0.74	0.0000
165 Ho	2375667.00	A	14100.00	0.59	0.0000
205 Tl	1129416.00	M	6194.00	0.55	1.0000
206 (Pb)	382167.19	P	1148.00	0.30	1.0000
207 (Pb)	333830.31	P	1312.00	0.39	1.0000
208 Pb	1538524.00	P	2880.00	0.19	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	536481.25	0.72	535705.94	100.1	70 -	120	
45 Sc	279103.56	0.63	277469.19	100.6	70 -	120	
45 Sc	108300.73	1.36	107568.42	100.7	70 -	120	
45 Sc	1024229.10	1.06	1040297.70	98.5	70 -	120	
72 Ge	79277.92	0.78	80174.67	98.9	70 -	120	
72 Ge	63798.69	2.90	64865.30	98.4	70 -	120	
72 Ge	216764.55	0.84	219085.67	98.9	70 -	120	
115 In	1015660.80	0.90	1033595.60	98.3	70 -	120	
115 In	605840.94	0.84	609098.25	99.5	70 -	120	
115 In	1586544.60	0.17	1638831.60	96.8	70 -	120	
159 Tb	2408067.30	0.74	2443833.50	98.5	70 -	120	
165 Ho	2375667.50	0.59	2396067.30	99.1	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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\12A26k00.B\009CALS.D\009CALS.D#
Date Acquired: Jan 26 2012 11:23 am
Operator: NBS
Sample Name: 120126 Standard 4
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:20 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	528206.31	A	8825.00	1.67	0.0000
7 (Li)	38639.57	P	438.20	1.13	-0.9475
9 Be	267997.59	P	3451.00	1.29	1.0000
11 B	218370.59	P	2168.00	0.99	1.0000
23 Na	1363934.00	A	645.00	0.05	1.0000
24 Mg	1476349.00	A	19570.00	1.33	1.0000
27 Al	303985.81	P	1107.00	0.36	1.0000
39 K	839587.19	P	357.10	0.04	1.0000
44 Ca	108910.20	P	832.50	0.76	1.0000
45 Sc	273842.81	A	2111.00	0.77	0.0000
45 Sc	106874.30	A	609.00	0.57	0.0000
45 Sc	1012633.00	A	3746.00	0.37	0.0000
47 Ti	12629.54	P	83.73	0.66	1.0000
51 V	314138.50	P	1361.00	0.43	1.0000
52 Cr	353865.31	P	1809.00	0.51	1.0000
55 Mn	273715.50	P	2785.00	1.02	1.0000
56 Fe	6230466.00	A	53570.00	0.86	1.0000
59 Co	513320.31	P	2305.00	0.45	1.0000
60 Ni	130138.30	P	179.20	0.14	1.0000
63 Cu	344934.31	P	1865.00	0.54	1.0000
65 Cu	167416.41	P	774.80	0.46	1.0000
66 Zn	71391.08	P	107.60	0.15	0.9981
72 Ge	79914.24	A	1522.00	1.90	0.0000
72 Ge	65251.39	A	2225.00	3.41	0.0000
72 Ge	214832.91	A	3317.00	1.54	0.0000
75 As	46971.97	P	91.84	0.20	1.0000
78 Se	18454.54	P	141.30	0.77	1.0000
78 Se	7165.79	P	50.22	0.70	1.0000
88 Sr	424013.59	P	1523.00	0.36	1.0000
88 Sr	1785649.00	A	7037.00	0.39	1.0000
95 Mo	373864.31	P	2018.00	0.54	1.0000
106 (Cd)	19660.99	P	210.10	1.07	1.0000
107 Ag	526165.69	P	3810.00	0.72	1.0000
108 (Cd)	15066.31	P	142.50	0.95	1.0000
111 Cd	220133.80	P	2559.00	1.16	1.0000
115 In	1009379.00	A	7703.00	0.76	0.0000
115 In	601537.00	A	4692.00	0.78	0.0000
115 In	1580536.00	A	9617.00	0.61	0.0000
118 Sn	388447.69	P	2698.00	0.69	1.0000
118 Sn	237442.50	P	1258.00	0.53	1.0000
118 Sn	580378.69	P	1432.00	0.25	1.0000
121 Sb	742255.50	P	6558.00	0.88	1.0000
137 Ba	296957.91	P	1809.00	0.61	1.0000
159 Tb	2404565.00	A	11330.00	0.47	0.0000
165 Ho	2375287.00	A	3561.00	0.15	0.0000
205 Tl	2249351.00	A	31140.00	1.38	1.0000
206 (Pb)	757317.31	P	1626.00	0.21	1.0000
207 (Pb)	661044.19	P	1382.00	0.21	1.0000
208 Pb	3001216.00	A	2349.00	0.08	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	528205.25	1.67	535705.94	98.6	70 -	120	
45 Sc	273842.81	0.77	277469.19	98.7	70 -	120	
45 Sc	106874.28	0.57	107568.42	99.4	70 -	120	
45 Sc	1012632.90	0.37	1040297.70	97.3	70 -	120	
72 Ge	79914.24	1.90	80174.67	99.7	70 -	120	
72 Ge	65251.39	3.41	64865.30	100.6	70 -	120	
72 Ge	214832.89	1.54	219085.67	98.1	70 -	120	
115 In	1009379.00	0.76	1033595.60	97.7	70 -	120	
115 In	601537.00	0.78	609098.25	98.8	70 -	120	
115 In	1580535.60	0.61	1638831.60	96.4	70 -	120	
159 Tb	2404564.80	0.47	2443833.50	98.4	70 -	120	
165 Ho	2375287.30	0.15	2396067.30	99.1	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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\12A26k00.B\010_QCS.D\010_QCS.D#
Date Acquired: Jan 26 2012 11:30 am
Operator: NBS
Sample Name: ICV 120126
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	101.10	ug/l	0.39	100.00	90 - 110	
11 B	101.20	ug/l	1.37	100.00	90 - 110	
23 Na	2474.00	ug/l	2.24	2500.00	90 - 110	
24 Mg	2648.00	ug/l	2.19	2500.00	90 - 110	
27 Al	2545.00	ug/l	2.31	2500.00	90 - 110	
39 K	2339.00	ug/l	2.29	2500.00	90 - 110	
44 Ca	2513.00	ug/l	2.28	2500.00	90 - 110	
47 Ti	98.61	ug/l	2.66	100.00	90 - 110	
51 V	101.40	ug/l	2.29	100.00	90 - 110	
52 Cr	104.70	ug/l	1.90	100.00	90 - 110	
55 Mn	104.50	ug/l	2.35	100.00	90 - 110	
56 Fe	2519.00	ug/l	2.80	2500.00	90 - 110	
59 Co	103.00	ug/l	2.39	100.00	90 - 110	
60 Ni	102.90	ug/l	2.40	100.00	90 - 110	
63 Cu	101.50	ug/l	2.18	100.00	90 - 110	
65 Cu	101.70	ug/l	2.29	100.00	90 - 110	
66 Zn	102.70	ug/l	2.77	100.00	90 - 110	
75 As	99.78	ug/l	2.02	100.00	90 - 110	
78 Se	102.20	ug/l	1.00	100.00	90 - 110	
78 Se	104.90	ug/l	2.81	100.00	90 - 110	
88 Sr	101.90	ug/l	1.82	100.00	90 - 110	
88 Sr	100.50	ug/l	0.81	100.00	90 - 110	
95 Mo	97.41	ug/l	0.68	100.00	90 - 110	
106 (Cd)	--------	ug/l	--------	100.00	90 - 110	
107 Ag	48.26	ug/l	0.59	50.00	90 - 110	
108 (Cd)	--------	ug/l	--------	100.00	90 - 110	
111 Cd	102.60	ug/l	1.21	100.00	90 - 110	
118 Sn	46.74	ug/l	1.90	50.00	90 - 110	
118 Sn	51.11	ug/l	4.86	50.00	90 - 110	
118 Sn	47.94	ug/l	3.36	50.00	90 - 110	
121 Sb	105.30	ug/l	0.37	100.00	90 - 110	
137 Ba	99.25	ug/l	1.28	100.00	90 - 110	
205 Tl	101.10	ug/l	0.33	100.00	90 - 110	
206 (Pb)	--------	ug/l	--------	100.00	90 - 110	
207 (Pb)	--------	ug/l	--------	100.00	90 - 110	
208 Pb	101.90	ug/l	0.76	100.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	546808.50	1.55	535705.94	102.1	70 - 120	
45 Sc	274063.81	1.05	277469.19	98.8	70 - 120	
45 Sc	107614.64	2.15	107568.42	100.0	70 - 120	
45 Sc	1034234.50	0.72	1040297.70	99.4	70 - 120	
72 Ge	78107.16	0.29	80174.67	97.4	70 - 120	
72 Ge	64890.20	4.33	64865.30	100.0	70 - 120	
72 Ge	218793.56	2.32	219085.67	99.9	70 - 120	
115 In	1008235.30	0.49	1033595.60	97.5	70 - 120	
115 In	594951.31	1.52	609098.25	97.7	70 - 120	
115 In	1591942.90	0.43	1638831.60	97.1	70 - 120	
159 Tb	2432235.00	0.66	2443833.50	99.5	70 - 120	
165 Ho	2402521.00	0.45	2396067.30	100.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\013_CCB.D\013_CCB.D#
Date Acquired: Jan 26 2012 11:50 am
Operator: NBS
Sample Name: ICB 120126
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	#######	
9 Be	0.00	ug/l	5376.10	0.12	
11 B	0.22	ug/l	15.43	15.00	
23 Na	-0.34	ug/l	302.11	77.10	
24 Mg	-0.03	ug/l	236.55	7.50	
27 Al	-0.19	ug/l	80.83	3.96	
39 K	-2.30	ug/l	30.50	19.20	
44 Ca	-10.52	ug/l	25.62	90.00	
47 Ti	0.02	ug/l	87.67	0.78	
51 V	0.14	ug/l	14.94	0.21	
52 Cr	0.00	ug/l	285.71	0.12	
55 Mn	-0.01	ug/l	43.19	0.18	
56 Fe	-0.40	ug/l	27.36	40.80	
59 Co	0.00	ug/l	72.46	0.09	
60 Ni	0.00	ug/l	123.07	0.48	
63 Cu	-0.01	ug/l	78.62	0.39	
65 Cu	-0.01	ug/l	64.41	0.39	
66 Zn	0.00	ug/l	788.88	6.90	
75 As	0.03	ug/l	57.32	0.27	
78 Se	0.01	ug/l	125.64	0.30	
78 Se	-0.01	ug/l	1556.00	0.30	
88 Sr	0.00	ug/l	71.80	0.03	
88 Sr	0.00	ug/l	59.95	0.03	
95 Mo	0.03	ug/l	12.00	0.21	
106 (Cd)	--------	ug/l	--------	#######	
107 Ag	0.00	ug/l	93.42	0.09	
108 (Cd)	--------	ug/l	--------	#######	
111 Cd	0.00	ug/l	582.52	0.06	
118 Sn	0.07	ug/l	9.14	#######	
118 Sn	0.07	ug/l	31.87	#######	
118 Sn	0.07	ug/l	2.58	0.30	
121 Sb	0.09	ug/l	10.39	0.03	Fail
137 Ba	0.00	ug/l	133.38	0.12	
205 Tl	0.01	ug/l	8.46	0.03	
206 (Pb)	--------	ug/l	--------	#######	
207 (Pb)	--------	ug/l	--------	#######	
208 Pb	-0.01	ug/l	10.08	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	544826.50	1.02	535705.94	101.7	70 - 120	
45 Sc	270645.38	1.16	277469.19	97.5	70 - 120	
45 Sc	108359.99	1.51	107568.42	100.7	70 - 120	
45 Sc	1025272.80	0.53	1040297.70	98.6	70 - 120	
72 Ge	81185.79	1.48	80174.67	101.3	70 - 120	
72 Ge	63602.82	2.45	64865.30	98.1	70 - 120	
72 Ge	217360.11	0.42	219085.67	99.2	70 - 120	
115 In	1022851.80	1.13	1033595.60	99.0	70 - 120	
115 In	611448.69	0.59	609098.25	100.4	70 - 120	
115 In	1581853.30	0.18	1638831.60	96.5	70 - 120	
159 Tb	2401830.80	0.22	2443833.50	98.3	70 - 120	
165 Ho	2375226.30	0.13	2396067.30	99.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\014_CCV.D\014_CCV.D#
Date Acquired: Jan 26 2012 11:57 am
Operator: NBS
Sample Name: CCV 120126
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	50.13	ug/l	0.89	50.00	90 -	110	
11 B	50.84	ug/l	1.07	50.00	90 -	110	
23 Na	1348.00	ug/l	1.10	1250.00	90 -	110	
24 Mg	2718.00	ug/l	0.49	2500.00	90 -	110	
27 Al	1012.00	ug/l	0.16	1000.00	90 -	110	
39 K	1014.00	ug/l	1.12	1000.00	90 -	110	
44 Ca	2528.00	ug/l	0.95	2500.00	90 -	110	
47 Ti	49.13	ug/l	0.25	50.00	90 -	110	
51 V	50.25	ug/l	0.43	50.00	90 -	110	
52 Cr	50.43	ug/l	0.54	50.00	90 -	110	
55 Mn	50.40	ug/l	1.06	50.00	90 -	110	
56 Fe	1020.00	ug/l	0.84	1000.00	90 -	110	
59 Co	50.52	ug/l	0.55	50.00	90 -	110	
60 Ni	50.72	ug/l	0.51	50.00	90 -	110	
63 Cu	50.33	ug/l	0.33	50.00	90 -	110	
65 Cu	50.77	ug/l	0.53	50.00	90 -	110	
66 Zn	51.24	ug/l	0.70	50.00	90 -	110	
75 As	50.05	ug/l	0.39	50.00	90 -	110	
78 Se	50.43	ug/l	1.00	50.00	90 -	110	
78 Se	50.48	ug/l	1.88	50.00	90 -	110	
88 Sr	50.17	ug/l	0.77	50.00	90 -	110	
88 Sr	52.20	ug/l	1.09	50.00	90 -	110	
95 Mo	50.09	ug/l	0.76	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	25.31	ug/l	0.62	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	49.64	ug/l	0.55	50.00	90 -	110	
118 Sn	50.24	ug/l	0.84		--- ##### -	#####	
118 Sn	50.46	ug/l	0.98		--- ##### -	#####	
118 Sn	49.89	ug/l	0.58	50.00	90 -	110	
121 Sb	50.06	ug/l	0.38	50.00	90 -	110	
137 Ba	49.83	ug/l	0.74	50.00	90 -	110	
205 Tl	49.38	ug/l	2.37	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	50.82	ug/l	0.86	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	541607.75	0.40	535705.94	101.1	70 -	120	
45 Sc	274191.41	1.63	277469.19	98.8	70 -	120	
45 Sc	106264.55	0.64	107568.42	98.8	70 -	120	
45 Sc	1010003.00	0.85	1040297.70	97.1	70 -	120	
72 Ge	79012.95	1.11	80174.67	98.6	70 -	120	
72 Ge	65421.23	2.27	64865.30	100.9	70 -	120	
72 Ge	215137.47	0.37	219085.67	98.2	70 -	120	
115 In	1006389.90	1.92	1033595.60	97.4	70 -	120	
115 In	598366.38	0.90	609098.25	98.2	70 -	120	
115 In	1571799.40	0.34	1638831.60	95.9	70 -	120	
159 Tb	2410813.80	0.44	2443833.50	98.6	70 -	120	
165 Ho	2371980.00	0.47	2396067.30	99.0	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\015_CCB.D\015_CCB.D#
Date Acquired: Jan 26 2012 12:03 pm
Operator: NBS
Sample Name: CCB 120126
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	########	
9 Be	0.00 ug/l	150.09	0.12	
11 B	0.29 ug/l	21.12	15.00	
23 Na	0.27 ug/l	593.62	77.10	
24 Mg	-0.18 ug/l	38.80	7.50	
27 Al	-0.12 ug/l	178.03	3.96	
39 K	-2.15 ug/l	90.09	19.20	
44 Ca	-10.57 ug/l	10.05	90.00	
47 Ti	0.02 ug/l	139.64	0.78	
51 V	0.11 ug/l	27.87	0.21	
52 Cr	0.00 ug/l	194.05	0.12	
55 Mn	-0.02 ug/l	10.86	0.18	
56 Fe	-0.28 ug/l	49.96	40.80	
59 Co	0.00 ug/l	73.86	0.09	
60 Ni	-0.01 ug/l	33.04	0.48	
63 Cu	-0.01 ug/l	62.37	0.39	
65 Cu	0.01 ug/l	225.94	0.39	
66 Zn	0.01 ug/l	555.71	6.90	
75 As	0.02 ug/l	121.14	0.27	
78 Se	0.05 ug/l	9.76	0.30	
78 Se	0.07 ug/l	98.04	0.30	
88 Sr	0.00 ug/l	156.84	0.03	
88 Sr	0.00 ug/l	12.92	0.03	
95 Mo	0.08 ug/l	19.64	0.21	
106 (Cd)	-------- ug/l	--------	########	
107 Ag	0.00 ug/l	198.86	0.09	
108 (Cd)	-------- ug/l	--------	########	
111 Cd	0.00 ug/l	122.48	0.06	
118 Sn	0.16 ug/l	2.36	########	
118 Sn	0.17 ug/l	17.15	########	
118 Sn	0.15 ug/l	11.67	0.30	
121 Sb	0.46 ug/l	8.19	0.03	Fail
137 Ba	0.00 ug/l	588.37	0.12	
205 Tl	0.02 ug/l	19.07	0.03	
206 (Pb)	-------- ug/l	--------	########	
207 (Pb)	-------- ug/l	--------	########	
208 Pb	-0.01 ug/l	10.40	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	545505.06	1.00	535705.94	101.8	70 - 120	
45 Sc	272193.38	0.33	277469.19	98.1	70 - 120	
45 Sc	106027.48	2.40	107568.42	98.6	70 - 120	
45 Sc	1013028.70	0.85	1040297.70	97.4	70 - 120	
72 Ge	78985.80	0.26	80174.67	98.5	70 - 120	
72 Ge	65012.49	0.92	64865.30	100.2	70 - 120	
72 Ge	215923.25	1.36	219085.67	98.6	70 - 120	
115 In	1013547.40	0.67	1033595.60	98.1	70 - 120	
115 In	605712.81	0.86	609098.25	99.4	70 - 120	
115 In	1592670.10	0.61	1638831.60	97.2	70 - 120	
159 Tb	2399283.00	0.84	2443833.50	98.2	70 - 120	
165 Ho	2362442.30	0.56	2396067.30	98.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\018SMPL.D\018SMPL.D#
Date Acquired: Jan 26 2012 12:23 pm
Operator: NBS
Sample Name: LDR 500ppb 120126
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	461.70	ug/l	461.70	0.42	1000	
11 B	500.80	ug/l	500.80	0.50	1000	
23 Na	12140.00	ug/l	12140.00	2.03	25000	
24 Mg	24070.00	ug/l	24070.00	2.39	50000	
27 Al	9385.00	ug/l	9385.00	2.43	20000	
39 K	8985.00	ug/l	8985.00	1.58	20000	
44 Ca	24940.00	ug/l	24940.00	0.93	50000	
47 Ti	505.70	ug/l	505.70	0.97	1000	
51 V	449.80	ug/l	449.80	2.14	1000	
52 Cr	456.10	ug/l	456.10	1.85	1000	
55 Mn	468.60	ug/l	468.60	2.67	1000	
56 Fe	9800.00	ug/l	9800.00	2.37	20000	
59 Co	456.40	ug/l	456.40	1.84	1000	
60 Ni	481.00	ug/l	481.00	2.04	1000	
63 Cu	454.80	ug/l	454.80	2.33	1000	
65 Cu	485.60	ug/l	485.60	2.15	1000	
66 Zn	480.90	ug/l	480.90	0.21	1000	
75 As	502.80	ug/l	502.80	0.25	1000	
78 Se	488.90	ug/l	488.90	1.17	1000	
78 Se	483.90	ug/l	483.90	0.24	1000	
88 Sr	485.20	ug/l	485.20	0.94	1000	
88 Sr	503.90	ug/l	503.90	0.49	1000	
95 Mo	491.10	ug/l	491.10	0.55	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	234.60	ug/l	234.60	0.79	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	493.70	ug/l	493.70	2.81	1000	
118 Sn	483.60	ug/l	483.60	1.28	########	
118 Sn	492.60	ug/l	492.60	1.11	########	
118 Sn	488.10	ug/l	488.10	0.19	1000	
121 Sb	461.80	ug/l	461.80	0.75	1000	
137 Ba	507.80	ug/l	507.80	0.97	1000	
205 Tl	487.30	ug/l	487.30	0.63	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	482.70	ug/l	482.70	0.50	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	542900.50	1.48	535705.94	101.3	70 - 120	
45 Sc	267770.44	0.72	277469.19	96.5	70 - 120	
45 Sc	105448.87	1.60	107568.42	98.0	70 - 120	
45 Sc	1000816.50	0.14	1040297.70	96.2	70 - 120	
72 Ge	77633.86	2.96	80174.67	96.8	70 - 120	
72 Ge	64919.65	1.06	64865.30	100.1	70 - 120	
72 Ge	213553.45	1.23	219085.67	97.5	70 - 120	
115 In	976128.94	0.63	1033595.60	94.4	70 - 120	
115 In	582199.38	0.39	609098.25	95.6	70 - 120	
115 In	1506915.30	0.18	1638831.60	92.0	70 - 120	
159 Tb	2396248.50	0.26	2443833.50	98.1	70 - 120	
165 Ho	2363885.80	0.20	2396067.30	98.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\020SMPL.D\020SMPL.D#
Date Acquired: Jan 26 2012 12:36 pm
Operator: NBS
Sample Name: ICSA 120126
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	0.20	ug/l	0.20	11.13	1000	
11 B	6.69	ug/l	6.69	1.86	1000	
23 Na	92730.00	ug/l	92730.00	2.02	25000	>Cal
24 Mg	90380.00	ug/l	90380.00	1.77	50000	>Cal
27 Al	89240.00	ug/l	89240.00	1.38	20000	>Cal
39 K	86590.00	ug/l	86590.00	1.90	20000	>Cal
44 Ca	87760.00	ug/l	87760.00	1.16	50000	>Cal
47 Ti	1986.00	ug/l	1986.00	1.88	1000	>Cal
51 V	0.54	ug/l	0.54	7.14	1000	
52 Cr	1.61	ug/l	1.61	5.50	1000	
55 Mn	5.94	ug/l	5.94	0.67	1000	
56 Fe	91780.00	ug/l	91780.00	1.56	20000	>Cal
59 Co	1.69	ug/l	1.69	1.58	1000	
60 Ni	2.12	ug/l	2.12	1.98	1000	
63 Cu	1.53	ug/l	1.53	4.69	1000	
65 Cu	1.63	ug/l	1.63	4.12	1000	
66 Zn	2.44	ug/l	2.44	3.75	1000	
75 As	0.76	ug/l	0.76	1.49	1000	
78 Se	0.39	ug/l	0.39	4.57	1000	
78 Se	0.51	ug/l	0.51	20.15	1000	
88 Sr	1.38	ug/l	1.38	2.07	1000	
88 Sr	1.42	ug/l	1.42	0.19	1000	
95 Mo	1789.00	ug/l	1789.00	1.14	1000	>Cal
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	0.24	ug/l	0.24	7.10	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	0.62	ug/l	0.62	6.62	1000	
118 Sn	2.25	ug/l	2.25	2.17	########	
118 Sn	2.49	ug/l	2.49	4.20	########	
118 Sn	2.42	ug/l	2.42	1.99	1000	
121 Sb	3.82	ug/l	3.82	3.64	1000	
137 Ba	2.89	ug/l	2.89	3.21	1000	
205 Tl	0.53	ug/l	0.53	0.82	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	0.98	ug/l	0.98	1.01	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	582795.81	1.51	535705.94	108.8	70 - 120	
45 Sc	266677.50	0.41	277469.19	96.1	70 - 120	
45 Sc	106555.87	1.53	107568.42	99.1	70 - 120	
45 Sc	1044362.00	0.94	1040297.70	100.4	70 - 120	
72 Ge	76132.47	2.94	80174.67	95.0	70 - 120	
72 Ge	69487.21	2.32	64865.30	107.1	70 - 120	
72 Ge	248430.66	0.58	219085.67	113.4	70 - 120	
115 In	930584.63	0.52	1033595.60	90.0	70 - 120	
115 In	569144.13	0.87	609098.25	93.4	70 - 120	
115 In	1510648.40	0.97	1638831.60	92.2	70 - 120	
159 Tb	2433213.50	0.14	2443833.50	99.6	70 - 120	
165 Ho	2407846.30	0.29	2396067.30	100.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.D#

8 :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-AB QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\021ICSB.D\021ICSB.D#
Date Acquired: Jan 26 2012 12:43 pm
Acq. Method: 62A0126A.M
Operator: NBS
Sample Name: ICSAB 120126
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal. Update: Jan 26 2012 11:27 am
Sample Type: ICSAB
Dilution Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Fail

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
7 (Li)	---	3	---	---	---		-	
9 Be	45	3	238.90	0.17	250	95.6	80 - 120	
11 B	45	3	5.97	1.22	---		-	
23 Na	45	2	92880.00	0.67	---		-	
24 Mg	45	2	89670.00	0.41	---		-	
27 Al	45	2	86730.00	0.79	---		-	
39 K	45	2	85580.00	0.82	---		-	
44 Ca	45	2	86260.00	0.88	---		-	
47 Ti	45	2	1919.00	0.06	2000	96.0	80 - 120	
51 V	45	2	245.30	0.65	250	98.1	80 - 120	
52 Cr	45	2	243.90	1.03	250	97.6	80 - 120	
55 Mn	45	2	249.40	0.58	250	99.8	80 - 120	
56 Fe	45	2	89890.00	0.31	---		-	
59 Co	45	2	213.00	0.09	250	85.2	80 - 120	
60 Ni	45	2	432.90	0.76	500	86.6	80 - 120	
63 Cu	45	2	210.90	0.75	250	84.4	80 - 120	
65 Cu	45	2	212.20	0.34	250	84.9	80 - 120	
66 Zn	115	2	500.90	0.92	500	100.2	80 - 120	
75 As	115	2	229.20	0.94	250	91.7	80 - 120	
78 Se	115	1	218.20	0.92	250	87.3	80 - 120	
78 Se	115	2	215.40	0.85	250	86.2	80 - 120	
88 Sr	115	2	1.52	2.90	---		-	
88 Sr	115	3	1.61	0.67	---		-	
95 Mo	115	3	2028.00	0.64	2000	101.4	80 - 120	
106 (Cd)	---	3	---	---	---		-	
107 Ag	115	3	404.60	7.93	500	80.9	80 - 120	
108 (Cd)	---	3	---	---	---		-	
111 Cd	115	3	457.20	0.92	500	91.4	80 - 120	
118 Sn	115	1	2.39	1.81	---		-	
118 Sn	115	2	2.45	3.69	---		-	
118 Sn	115	3	2.49	1.41	---		-	
121 Sb	115	3	245.20	0.54	250	98.1	80 - 120	
137 Ba	115	3	255.20	1.28	250	102.1	80 - 120	
205 Tl	159	3	234.10	0.36	250	93.6	80 - 120	
206 (Pb)	---	3	---	---	---		-	
207 (Pb)	---	3	---	---	---		-	
208 Pb	159	3	454.00	0.71	500	90.8	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	644012	0.97	535706	120.2	70 - 120	IS Fail
45 Sc	1	276584	0.97	277469	99.7	70 - 120	
45 Sc	2	111183	0.61	107568	103.4	70 - 120	
45 Sc	3	1070144	0.11	1040298	102.9	70 - 120	
72 Ge	1	77640	2.26	80175	96.8	70 - 120	
72 Ge	2	71822	3.75	64865	110.7	70 - 120	
72 Ge	3	248765	0.70	219086	113.5	70 - 120	
115 In	1	967459	1.22	1033596	93.6	70 - 120	
115 In	2	584788	0.98	609098	96.0	70 - 120	
115 In	3	1536659	0.44	1638832	93.8	70 - 120	
159 Tb	3	2491492	0.32	2443834	102.0	70 - 120	
165 Ho	3	2483918	0.67	2396067	103.7	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\096_CCV.D\096_CCV.D#
Date Acquired: Jan 26 2012 09:22 pm
Operator: NBS
Sample Name: CCV 120126
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	49.60	ug/l	1.55	50.00	90 -	110	
11 B	52.18	ug/l	2.33	50.00	90 -	110	
23 Na	1294.00	ug/l	4.71	1250.00	90 -	110	
24 Mg	2671.00	ug/l	1.19	2500.00	90 -	110	
27 Al	1000.00	ug/l	0.47	1000.00	90 -	110	
39 K	1043.00	ug/l	0.92	1000.00	90 -	110	
44 Ca	2500.00	ug/l	1.23	2500.00	90 -	110	
47 Ti	51.58	ug/l	0.89	50.00	90 -	110	
51 V	51.06	ug/l	0.66	50.00	90 -	110	
52 Cr	49.67	ug/l	1.42	50.00	90 -	110	
55 Mn	49.85	ug/l	0.56	50.00	90 -	110	
56 Fe	1031.00	ug/l	0.88	1000.00	90 -	110	
59 Co	49.20	ug/l	1.24	50.00	90 -	110	
60 Ni	48.53	ug/l	0.70	50.00	90 -	110	
63 Cu	48.70	ug/l	0.50	50.00	90 -	110	
65 Cu	48.92	ug/l	0.65	50.00	90 -	110	
66 Zn	48.91	ug/l	1.72	50.00	90 -	110	
75 As	49.39	ug/l	1.99	50.00	90 -	110	
78 Se	48.23	ug/l	0.48	50.00	90 -	110	
78 Se	49.11	ug/l	1.06	50.00	90 -	110	
88 Sr	50.31	ug/l	1.11	50.00	90 -	110	
88 Sr	50.98	ug/l	0.87	50.00	90 -	110	
95 Mo	47.96	ug/l	1.18	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	23.93	ug/l	1.87	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	48.30	ug/l	1.46	50.00	90 -	110	
118 Sn	49.38	ug/l	0.75	---	##### -	#####	
118 Sn	50.60	ug/l	0.62	---	##### -	#####	
118 Sn	49.09	ug/l	1.09	50.00	90 -	110	
121 Sb	50.21	ug/l	1.00	50.00	90 -	110	
137 Ba	49.79	ug/l	1.39	50.00	90 -	110	
205 Tl	48.78	ug/l	0.99	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	48.83	ug/l	1.68	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	754210.44	2.12	535705.94	140.8	70 -	120	IS Fail
45 Sc	311687.63	1.31	277469.19	112.3	70 -	120	
45 Sc	118855.37	1.45	107568.42	110.5	70 -	120	
45 Sc	1205418.90	1.90	1040297.70	115.9	70 -	120	
72 Ge	85840.53	2.74	80174.67	107.1	70 -	120	
72 Ge	70502.84	2.60	64865.30	108.7	70 -	120	
72 Ge	254867.59	1.92	219085.67	116.3	70 -	120	
115 In	1153869.50	0.85	1033595.60	111.6	70 -	120	
115 In	677732.31	1.68	609098.25	111.3	70 -	120	
115 In	1807540.10	0.84	1638831.60	110.3	70 -	120	
159 Tb	2717503.30	1.63	2443833.50	111.2	70 -	120	
165 Ho	2668307.80	1.76	2396067.30	111.4	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\098_CCB.D\098_CCB.D#
Date Acquired: Jan 26 2012 09:36 pm
Operator: NBS
Sample Name: CCB 120126
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	########	
9 Be	0.00 ug/l	86.72	0.12	
11 B	0.69 ug/l	8.02	15.00	
23 Na	2.73 ug/l	15.88	77.10	
24 Mg	-0.31 ug/l	41.33	7.50	
27 Al	0.65 ug/l	16.62	3.96	
39 K	10.33 ug/l	9.05	19.20	
44 Ca	-18.90 ug/l	5.73	90.00	
47 Ti	0.12 ug/l	34.08	0.78	
51 V	0.50 ug/l	15.20	0.21	Fail
52 Cr	-0.01 ug/l	142.41	0.12	
55 Mn	0.02 ug/l	97.75	0.18	
56 Fe	1.92 ug/l	4.44	40.80	
59 Co	0.00 ug/l	728.90	0.09	
60 Ni	-0.02 ug/l	15.16	0.48	
63 Cu	-0.01 ug/l	73.15	0.39	
65 Cu	0.01 ug/l	124.80	0.39	
66 Zn	0.05 ug/l	9.69	6.90	
75 As	0.12 ug/l	9.85	0.27	
78 Se	0.02 ug/l	44.26	0.30	
78 Se	0.20 ug/l	23.57	0.30	
88 Sr	0.01 ug/l	21.46	0.03	
88 Sr	0.02 ug/l	3.62	0.03	
95 Mo	0.03 ug/l	18.84	0.21	
106 (Cd)	-------- ug/l	--------	########	
107 Ag	0.00 ug/l	27.50	0.09	
108 (Cd)	-------- ug/l	--------	########	
111 Cd	0.00 ug/l	77.93	0.06	
118 Sn	0.16 ug/l	11.28	########	
118 Sn	0.13 ug/l	25.58	########	
118 Sn	0.14 ug/l	0.84	0.30	
121 Sb	0.10 ug/l	10.96	0.03	Fail
137 Ba	0.04 ug/l	11.84	0.12	
205 Tl	0.02 ug/l	4.89	0.03	
206 (Pb)	-------- ug/l	--------	########	
207 (Pb)	-------- ug/l	--------	########	
208 Pb	-0.01 ug/l	20.73	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	788569.88	0.38	535705.94	147.2	70 - 120	IS Fail
45 Sc	312006.06	1.60	277469.19	112.4	70 - 120	
45 Sc	122810.20	2.43	107568.42	114.2	70 - 120	
45 Sc	1257499.00	1.30	1040297.70	120.9	70 - 120	IS Fail
72 Ge	87957.86	0.42	80174.67	109.7	70 - 120	
72 Ge	75334.23	0.30	64865.30	116.1	70 - 120	
72 Ge	263441.13	0.66	219085.67	120.2	70 - 120	IS Fail
115 In	1201499.90	0.33	1033595.60	116.2	70 - 120	
115 In	719017.75	1.07	609098.25	118.0	70 - 120	
115 In	1901778.00	0.47	1638831.60	116.0	70 - 120	
159 Tb	2801528.00	0.11	2443833.50	114.6	70 - 120	
165 Ho	2764404.00	0.07	2396067.30	115.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
3 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\110_CCV.D\110_CCV.D#
Date Acquired: Jan 26 2012 10:56 pm
Operator: NBS
Sample Name: CCV 120126
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	52.23	ug/l	0.53	50.00	90 -	110	
11 B	53.75	ug/l	0.29	50.00	90 -	110	
23 Na	1422.00	ug/l	2.07	1250.00	90 -	110	Fail
24 Mg	2756.00	ug/l	2.14	2500.00	90 -	110	Fail
27 Al	1019.00	ug/l	2.31	1000.00	90 -	110	
39 K	1040.00	ug/l	2.22	1000.00	90 -	110	
44 Ca	2489.00	ug/l	1.65	2500.00	90 -	110	
47 Ti	50.48	ug/l	2.41	50.00	90 -	110	
51 V	50.13	ug/l	1.85	50.00	90 -	110	
52 Cr	49.78	ug/l	1.87	50.00	90 -	110	
55 Mn	50.46	ug/l	2.15	50.00	90 -	110	
56 Fe	1034.00	ug/l	2.42	1000.00	90 -	110	
59 Co	48.85	ug/l	2.15	50.00	90 -	110	
60 Ni	47.82	ug/l	1.36	50.00	90 -	110	
63 Cu	48.24	ug/l	1.77	50.00	90 -	110	
65 Cu	48.23	ug/l	2.47	50.00	90 -	110	
66 Zn	47.02	ug/l	0.88	50.00	90 -	110	
75 As	46.56	ug/l	0.60	50.00	90 -	110	
78 Se	46.35	ug/l	0.28	50.00	90 -	110	
78 Se	46.57	ug/l	1.33	50.00	90 -	110	
88 Sr	48.80	ug/l	0.31	50.00	90 -	110	
88 Sr	50.71	ug/l	0.60	50.00	90 -	110	
95 Mo	46.96	ug/l	0.31	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	23.43	ug/l	0.40	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	48.62	ug/l	0.72	50.00	90 -	110	
118 Sn	49.59	ug/l	0.74	---	##### -	#####	
118 Sn	49.90	ug/l	0.37	---	##### -	#####	
118 Sn	49.72	ug/l	0.49	50.00	90 -	110	
121 Sb	50.83	ug/l	0.51	50.00	90 -	110	
137 Ba	49.87	ug/l	0.71	50.00	90 -	110	
205 Tl	49.65	ug/l	0.66	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	49.48	ug/l	0.91	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	795708.06	0.15	535705.94	148.5	70 -	120	IS Fail
45 Sc	284748.03	1.78	277469.19	102.6	70 -	120	
45 Sc	111215.88	2.01	107568.42	103.4	70 -	120	
45 Sc	1154814.50	0.69	1040297.70	111.0	70 -	120	
72 Ge	81164.27	2.06	80174.67	101.2	70 -	120	
72 Ge	69995.59	0.64	64865.30	107.9	70 -	120	
72 Ge	243309.38	0.61	219085.67	111.1	70 -	120	
115 In	1108528.30	0.93	1033595.60	107.2	70 -	120	
115 In	669332.38	0.76	609098.25	109.9	70 -	120	
115 In	1756616.50	0.50	1638831.60	107.2	70 -	120	
159 Tb	2694163.80	0.95	2443833.50	110.2	70 -	120	
165 Ho	2663160.30	0.42	2396067.30	111.1	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\112_CCB.D\112_CCB.D#
Date Acquired: Jan 26 2012 11:10 pm
Operator: NBS
Sample Name: CCB 120126
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	########	
9 Be	0.00 ug/l	40.83	0.12	
11 B	-0.29 ug/l	17.93	15.00	
23 Na	21.11 ug/l	40.61	77.10	
24 Mg	0.56 ug/l	255.89	7.50	
27 Al	7.76 ug/l	121.69	3.96	Fail
39 K	7.29 ug/l	13.47	19.20	
44 Ca	-11.57 ug/l	84.68	90.00	
47 Ti	0.14 ug/l	171.55	0.78	
51 V	0.00 ug/l	862.44	0.21	
52 Cr	-0.03 ug/l	43.46	0.12	
55 Mn	0.16 ug/l	132.38	0.18	
56 Fe	10.67 ug/l	126.80	40.80	
59 Co	0.01 ug/l	116.84	0.09	
60 Ni	0.00 ug/l	1419.10	0.48	
63 Cu	0.01 ug/l	249.93	0.39	
65 Cu	0.02 ug/l	80.85	0.39	
66 Zn	0.07 ug/l	18.74	6.90	
75 As	0.02 ug/l	64.76	0.27	
78 Se	0.01 ug/l	42.79	0.30	
78 Se	0.28 ug/l	19.54	0.30	
88 Sr	0.17 ug/l	117.36	0.03	Fail
88 Sr	0.02 ug/l	4.10	0.03	
95 Mo	0.03 ug/l	19.16	0.21	
106 (Cd)	-------- ug/l	--------	########	
107 Ag	0.00 ug/l	67.42	0.09	
108 (Cd)	-------- ug/l	--------	########	
111 Cd	0.00 ug/l	2155.30	0.06	
118 Sn	0.15 ug/l	10.12	########	
118 Sn	0.14 ug/l	13.54	########	
118 Sn	0.15 ug/l	9.11	0.30	
121 Sb	0.05 ug/l	16.34	0.03	Fail
137 Ba	0.03 ug/l	32.10	0.12	
205 Tl	0.02 ug/l	7.03	0.03	
206 (Pb)	-------- ug/l	--------	########	
207 (Pb)	-------- ug/l	--------	########	
208 Pb	-0.01 ug/l	8.51	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	813118.31	1.30	535705.94	151.8	70 - 120	IS Fail
45 Sc	291270.47	0.73	277469.19	105.0	70 - 120	
45 Sc	116490.70	1.20	107568.42	108.3	70 - 120	
45 Sc	1183341.40	1.44	1040297.70	113.8	70 - 120	
72 Ge	81306.93	1.16	80174.67	101.4	70 - 120	
72 Ge	71665.68	0.48	64865.30	110.5	70 - 120	
72 Ge	246923.58	1.54	219085.67	112.7	70 - 120	
115 In	1147589.30	0.96	1033595.60	111.0	70 - 120	
115 In	682515.19	0.95	609098.25	112.1	70 - 120	
115 In	1822778.40	0.99	1638831.60	111.2	70 - 120	
159 Tb	2727981.80	0.59	2443833.50	111.6	70 - 120	
165 Ho	2691694.30	0.70	2396067.30	112.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\116_CCV.D\116_CCV.D#
Date Acquired: Jan 26 2012 11:36 pm
Operator: NBS
Sample Name: CCV 120126
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	52.68	ug/l	0.74	50.00	90 - 110	
11 B	55.48	ug/l	4.77	50.00	90 - 110	Fail
23 Na	1423.00	ug/l	3.48	1250.00	90 - 110	Fail
24 Mg	2748.00	ug/l	3.02	2500.00	90 - 110	
27 Al	1013.00	ug/l	3.23	1000.00	90 - 110	
39 K	1031.00	ug/l	2.89	1000.00	90 - 110	
44 Ca	2470.00	ug/l	2.05	2500.00	90 - 110	
47 Ti	48.88	ug/l	4.00	50.00	90 - 110	
51 V	50.00	ug/l	2.76	50.00	90 - 110	
52 Cr	49.16	ug/l	2.87	50.00	90 - 110	
55 Mn	50.03	ug/l	2.56	50.00	90 - 110	
56 Fe	1023.00	ug/l	3.19	1000.00	90 - 110	
59 Co	48.54	ug/l	2.82	50.00	90 - 110	
60 Ni	47.42	ug/l	3.27	50.00	90 - 110	
63 Cu	47.40	ug/l	2.46	50.00	90 - 110	
65 Cu	48.00	ug/l	2.83	50.00	90 - 110	
66 Zn	46.64	ug/l	1.01	50.00	90 - 110	
75 As	45.99	ug/l	0.92	50.00	90 - 110	
78 Se	46.09	ug/l	1.53	50.00	90 - 110	
78 Se	45.55	ug/l	2.32	50.00	90 - 110	
88 Sr	48.49	ug/l	0.13	50.00	90 - 110	
88 Sr	50.62	ug/l	1.40	50.00	90 - 110	
95 Mo	46.88	ug/l	0.59	50.00	90 - 110	
106 (Cd)	--------	ug/l	--------	50.00	90 - 110	
107 Ag	23.50	ug/l	0.69	25.00	90 - 110	
108 (Cd)	--------	ug/l	--------	50.00	90 - 110	
111 Cd	48.40	ug/l	0.81	50.00	90 - 110	
118 Sn	49.32	ug/l	1.29	---	##### - #####	
118 Sn	49.72	ug/l	0.55	---	##### - #####	
118 Sn	49.63	ug/l	0.20	50.00	90 - 110	
121 Sb	51.22	ug/l	0.70	50.00	90 - 110	
137 Ba	49.93	ug/l	0.41	50.00	90 - 110	
205 Tl	49.88	ug/l	0.61	50.00	90 - 110	
206 (Pb)	--------	ug/l	--------	50.00	90 - 110	
207 (Pb)	--------	ug/l	--------	50.00	90 - 110	
208 Pb	49.57	ug/l	0.62	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	776849.50	0.86	535705.94	145.0	70 - 120	IS Fail
45 Sc	279018.25	1.20	277469.19	100.6	70 - 120	
45 Sc	109416.77	2.69	107568.42	101.7	70 - 120	
45 Sc	1126211.40	0.57	1040297.70	108.3	70 - 120	
72 Ge	79283.58	3.17	80174.67	98.9	70 - 120	
72 Ge	67203.42	1.08	64865.30	103.6	70 - 120	
72 Ge	234227.48	1.34	219085.67	106.9	70 - 120	
115 In	1093233.80	0.52	1033595.60	105.8	70 - 120	
115 In	658093.81	0.73	609098.25	108.0	70 - 120	
115 In	1709046.90	0.58	1638831.60	104.3	70 - 120	
159 Tb	2616737.50	0.79	2443833.50	107.1	70 - 120	
165 Ho	2569326.50	0.35	2396067.30	107.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\118_CCB.D\118_CCB.D#
Date Acquired: Jan 26 2012 11:50 pm
Operator: NBS
Sample Name: CCB 120126
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	########	
9 Be	0.00 ug/l	48.72	0.12	
11 B	-0.18 ug/l	24.66	15.00	
23 Na	20.25 ug/l	4.55	77.10	
24 Mg	0.21 ug/l	110.78	7.50	
27 Al	4.20 ug/l	14.72	3.96	Fail
39 K	7.04 ug/l	13.18	19.20	
44 Ca	-14.62 ug/l	10.39	90.00	
47 Ti	0.08 ug/l	85.49	0.78	
51 V	0.09 ug/l	20.14	0.21	
52 Cr	-0.02 ug/l	52.31	0.12	
55 Mn	0.08 ug/l	30.89	0.18	
56 Fe	5.71 ug/l	25.99	40.80	
59 Co	0.00 ug/l	84.05	0.09	
60 Ni	-0.02 ug/l	31.00	0.48	
63 Cu	0.00 ug/l	209.76	0.39	
65 Cu	0.01 ug/l	194.62	0.39	
66 Zn	0.06 ug/l	50.59	6.90	
75 As	0.04 ug/l	54.77	0.27	
78 Se	0.01 ug/l	46.80	0.30	
78 Se	0.21 ug/l	11.38	0.30	
88 Sr	0.11 ug/l	20.14	0.03	Fail
88 Sr	0.03 ug/l	17.52	0.03	
95 Mo	0.03 ug/l	21.64	0.21	
106 (Cd)	-------- ug/l	--------	########	
107 Ag	0.00 ug/l	51.70	0.09	
108 (Cd)	-------- ug/l	--------	########	
111 Cd	0.00 ug/l	86.09	0.06	
118 Sn	0.16 ug/l	14.58	########	
118 Sn	0.14 ug/l	3.14	########	
118 Sn	0.17 ug/l	2.48	0.30	
121 Sb	0.05 ug/l	11.61	0.03	Fail
137 Ba	0.04 ug/l	23.36	0.12	
205 Tl	0.02 ug/l	12.27	0.03	
206 (Pb)	-------- ug/l	--------	########	
207 (Pb)	-------- ug/l	--------	########	
208 Pb	-0.01 ug/l	15.97	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	800596.50	0.46	535705.94	149.4	70 - 120	IS Fail
45 Sc	285561.72	2.93	277469.19	102.9	70 - 120	
45 Sc	113274.17	0.37	107568.42	105.3	70 - 120	
45 Sc	1153340.90	0.25	1040297.70	110.9	70 - 120	
72 Ge	79406.99	2.40	80174.67	99.0	70 - 120	
72 Ge	70326.21	0.41	64865.30	108.4	70 - 120	
72 Ge	240058.66	0.36	219085.67	109.6	70 - 120	
115 In	1125927.40	0.90	1033595.60	108.9	70 - 120	
115 In	675229.50	1.03	609098.25	110.9	70 - 120	
115 In	1764308.40	0.34	1638831.60	107.7	70 - 120	
159 Tb	2697979.00	0.86	2443833.50	110.4	70 - 120	
165 Ho	2634656.00	0.44	2396067.30	110.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

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	0.22 U	0.5	0.22	0.11	ug/L	01/26/12	01/26/12	#602D-120126A-AY53668

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\099SMPL.D\099SMPL.D#
Date Acquired: Jan 26 2012 09:43 pm
Operator: NBS
Sample Name: 120126A-3015-BLK
Misc Info: 120126A-3015
Vial Number: 2501
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	0.00 ug/l	0.00	87.23	1000	
11 B	0.92 ug/l	1.02	6.18	1000	
23 Na	2.33 ug/l	2.59	174.23	25000	
24 Mg	4.52 ug/l	5.02	58.61	50000	
27 Al	27.46 ug/l	30.51	68.39	20000	
39 K	15.72 ug/l	17.46	18.93	20000	
44 Ca	-12.88 ug/l	-14.31	26.06	50000	
47 Ti	1.24 ug/l	1.38	25.82	1000	
51 V	-0.24 ug/l	-0.27	31.21	1000	
52 Cr	0.53 ug/l	0.59	8.19	1000	
55 Mn	0.70 ug/l	0.77	72.60	1000	
56 Fe	48.63 ug/l	54.03	65.31	20000	
59 Co	0.03 ug/l	0.03	69.22	1000	
60 Ni	0.02 ug/l	0.02	66.38	1000	
63 Cu	0.00 ug/l	0.00	1745.00	1000	
65 Cu	0.01 ug/l	0.01	251.75	1000	
66 Zn	-0.02 ug/l	-0.02	244.11	1000	
75 As	-0.12 ug/l	-0.13	16.11	1000	
78 Se	0.01 ug/l	0.01	66.12	1000	
78 Se	0.33 ug/l	0.37	30.95	1000	
88 Sr	0.10 ug/l	0.11	60.83	1000	
88 Sr	0.03 ug/l	0.03	63.47	1000	
95 Mo	0.04 ug/l	0.04	13.95	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	########	
107 Ag	0.00 ug/l	0.00	69.25	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	########	
111 Cd	0.01 ug/l	0.02	13.64	1000	
118 Sn	-0.04 ug/l	-0.04	23.76	########	
118 Sn	-0.02 ug/l	-0.02	68.55	########	
118 Sn	-0.01 ug/l	-0.01	38.52	1000	
121 Sb	0.02 ug/l	0.02	51.66	1000	
137 Ba	0.04 ug/l	0.04	57.84	1000	
205 Tl	0.03 ug/l	0.03	5.22	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	########	
207 (Pb)	-------- ug/l	#VALUE!	--------	########	
208 Pb	0.00 ug/l	0.00	169.64	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	698721.94	0.98	535705.94	130.4	70 - 120	IS Fai
45 Sc	300186.72	0.72	277469.19	108.2	70 - 120	
45 Sc	116343.01	2.04	107568.42	108.2	70 - 120	
45 Sc	1210269.90	0.94	1040297.70	116.3	70 - 120	
72 Ge	81408.84	2.80	80174.67	101.5	70 - 120	
72 Ge	70389.62	1.26	64865.30	108.5	70 - 120	
72 Ge	245193.48	1.16	219085.67	111.9	70 - 120	
115 In	1128821.90	0.71	1033595.60	109.2	70 - 120	
115 In	686074.06	0.30	609098.25	112.6	70 - 120	
115 In	1836978.60	0.79	1638831.60	112.1	70 - 120	
159 Tb	2693650.50	0.70	2443833.50	110.2	70 - 120	
165 Ho	2661444.00	0.44	2396067.30	111.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

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	51.1	102	80-120	01/26/12	01/26/12	#602D-120126A-AY53668

Comments:

Printed: 02/07/12 12:53:13 PM
APPL Standard LCS

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\101SMPL.D\101SMPL.D#
Date Acquired: Jan 26 2012 09:56 pm
Operator: NBS
Sample Name: 120126A-3015-LCS
Misc Info: 120126A-3015
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	7.95	ug/l	8.83	1.92	1000	
11 B	44.22	ug/l	49.13	0.28	1000	
23 Na	4404.00	ug/l	4892.84	1.45	25000	
24 Mg	4450.00	ug/l	4943.95	1.12	50000	
27 Al	387.20	ug/l	430.18	1.96	20000	
39 K	959.80	ug/l	1066.34	1.11	20000	
44 Ca	4629.00	ug/l	5142.82	0.75	50000	
47 Ti	44.12	ug/l	49.02	0.16	1000	
51 V	46.31	ug/l	51.45	0.58	1000	
52 Cr	48.58	ug/l	53.97	1.48	1000	
55 Mn	47.83	ug/l	53.14	0.56	1000	
56 Fe	217.40	ug/l	241.53	4.39	20000	
59 Co	45.39	ug/l	50.43	1.50	1000	
60 Ni	43.98	ug/l	48.86	0.36	1000	
63 Cu	42.58	ug/l	47.31	0.94	1000	
65 Cu	42.60	ug/l	47.33	0.81	1000	
66 Zn	70.60	ug/l	78.44	1.68	1000	
75 As	36.00	ug/l	40.00	1.53	1000	
78 Se	30.59	ug/l	33.99	1.94	1000	
78 Se	30.51	ug/l	33.90	0.37	1000	
88 Sr	46.80	ug/l	51.99	1.19	1000	
88 Sr	48.85	ug/l	54.27	2.04	1000	
95 Mo	42.70	ug/l	47.44	0.82	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	10.74	ug/l	11.93	0.67	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	8.09	ug/l	8.98	1.11	1000	
118 Sn	46.69	ug/l	51.87	1.10	########	
118 Sn	47.08	ug/l	52.31	1.14	########	
118 Sn	47.21	ug/l	52.45	0.30	1000	
121 Sb	40.53	ug/l	45.03	0.94	1000	
137 Ba	45.53	ug/l	50.58	1.47	1000	
205 Tl	45.89	ug/l	50.98	1.10	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	46.02	ug/l	51.13	0.59	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	669700.88	0.13	535705.94	125.0	70 - 120	IS Fai
45 Sc	296546.31	0.85	277469.19	106.9	70 - 120	
45 Sc	118026.62	0.71	107568.42	109.7	70 - 120	
45 Sc	1154524.30	0.48	1040297.70	111.0	70 - 120	
72 Ge	82230.87	0.57	80174.67	102.6	70 - 120	
72 Ge	68991.27	0.72	64865.30	106.4	70 - 120	
72 Ge	237802.06	0.91	219085.67	108.5	70 - 120	
115 In	1098125.60	1.30	1033595.60	106.2	70 - 120	
115 In	672069.88	1.22	609098.25	110.3	70 - 120	
115 In	1770239.90	0.48	1638831.60	108.0	70 - 120	
159 Tb	2640525.00	1.03	2443833.50	108.0	70 - 120	
165 Ho	2607766.50	1.18	2396067.30	108.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

Matrix Spike Recoveries

METALS

APPL ID: **120126W-53668 MS - 163685**

Sample ID: AY53668

Client ID: ES059

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	50.0	0.11	47.7	47.2	95.2	94.2	1.1	20	80-120	01/26/12	01/26/12	01/26/12	01/26/12	163685	AY53668

Comments: _____

Printed: 02/07/12 12:53:08 PM
APPL MSD SCII

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12A26k00.B\107SMPL.D\107SMPL.D#
Date Acquired: Jan 26 2012 10:36 pm
Operator: NBS
Sample Name: AY53668W08 MS
Misc Info: 120126A-3015
Vial Number: 2509
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	7.67	ug/l	8.52	1.75	1000	
11 B	65.97	ug/l	73.29	0.79	1000	
23 Na	208300.00	ug/l	231421.30	1.37	25000	>Cal
24 Mg	5825.00	ug/l	6471.58	1.23	50000	
27 Al	388.60	ug/l	431.73	1.33	20000	
39 K	6815.00	ug/l	7571.47	1.69	20000	
44 Ca	273000.00	ug/l	303303.00	1.77	50000	>Cal
47 Ti	44.89	ug/l	49.87	2.00	1000	
51 V	46.55	ug/l	51.72	1.55	1000	
52 Cr	75.47	ug/l	83.85	1.20	1000	
55 Mn	46.51	ug/l	51.67	1.16	1000	
56 Fe	211.20	ug/l	234.64	2.00	20000	
59 Co	48.90	ug/l	54.33	1.40	1000	
60 Ni	61.24	ug/l	68.04	1.71	1000	
63 Cu	39.90	ug/l	44.33	1.31	1000	
65 Cu	40.44	ug/l	44.93	0.82	1000	
66 Zn	71.23	ug/l	79.14	1.03	1000	
75 As	38.03	ug/l	42.25	1.25	1000	
78 Se	32.27	ug/l	35.85	0.92	1000	
78 Se	32.40	ug/l	36.00	1.49	1000	
88 Sr	6319.00	ug/l	7020.41	0.45	1000	>Cal
88 Sr	6775.00	ug/l	7527.03	0.65	1000	>Cal
95 Mo	44.82	ug/l	49.80	0.78	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	9.70	ug/l	10.77	0.85	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	7.77	ug/l	8.64	1.40	1000	
118 Sn	47.00	ug/l	52.22	0.91	########	
118 Sn	47.77	ug/l	53.07	1.31	########	
118 Sn	48.01	ug/l	53.34	0.26	1000	
121 Sb	42.52	ug/l	47.24	0.93	1000	
137 Ba	311.20	ug/l	345.74	1.60	1000	
205 Tl	42.49	ug/l	47.21	0.30	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	42.96	ug/l	47.73	0.51	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	637622.25	0.75	535705.94	119.0	70 - 120	
45 Sc	283489.38	1.06	277469.19	102.2	70 - 120	
45 Sc	111003.93	0.97	107568.42	103.2	70 - 120	
45 Sc	1140898.60	1.08	1040297.70	109.7	70 - 120	
72 Ge	74925.48	3.83	80174.67	93.5	70 - 120	
72 Ge	65111.00	3.46	64865.30	100.4	70 - 120	
72 Ge	219247.61	1.39	219085.67	100.1	70 - 120	
115 In	979544.13	0.14	1033595.60	94.8	70 - 120	
115 In	604692.56	1.56	609098.25	99.3	70 - 120	
115 In	1645681.50	0.99	1638831.60	100.4	70 - 120	
159 Tb	2575128.80	0.29	2443833.50	105.4	70 - 120	
165 Ho	2535773.80	0.32	2396067.30	105.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12A26k00.B\005CALB.D\005CALB.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12A26K00.B\108SMPL.D\108SMPL.D#
Date Acquired: Jan 26 2012 10:43 pm
Operator: NBS
Sample Name: AY53668W08 MSD
Misc Info: 120126A-3015
Vial Number: 2510
Current Method: C:\ICPCHEM\1\METHODS\62A0126A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0126A.C
Last Cal Update: Jan 26 2012 11:27 am
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	7.43	ug/l	8.26	2.13	1000	
11 B	65.21	ug/l	72.45	0.95	1000	
23 Na	206300.00	ug/l	229199.30	2.68	25000	>Cal
24 Mg	5742.00	ug/l	6379.36	3.38	50000	
27 Al	382.70	ug/l	425.18	2.67	20000	
39 K	6699.00	ug/l	7442.59	2.82	20000	
44 Ca	269400.00	ug/l	299303.40	3.10	50000	>Cal
47 Ti	43.93	ug/l	48.81	4.88	1000	
51 V	45.51	ug/l	50.56	2.83	1000	
52 Cr	74.49	ug/l	82.76	2.56	1000	
55 Mn	45.68	ug/l	50.75	3.82	1000	
56 Fe	232.50	ug/l	258.31	2.65	20000	
59 Co	47.84	ug/l	53.15	3.22	1000	
60 Ni	59.93	ug/l	66.58	2.72	1000	
63 Cu	39.34	ug/l	43.71	3.04	1000	
65 Cu	39.67	ug/l	44.07	2.59	1000	
66 Zn	74.94	ug/l	83.26	1.12	1000	
75 As	37.37	ug/l	41.52	1.63	1000	
78 Se	32.35	ug/l	35.94	0.78	1000	
78 Se	32.20	ug/l	35.77	0.25	1000	
88 Sr	6315.00	ug/l	7015.97	1.07	1000	>Cal
88 Sr	6690.00	ug/l	7432.59	1.33	1000	>Cal
95 Mo	43.77	ug/l	48.63	0.83	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	9.48	ug/l	10.53	0.49	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	7.62	ug/l	8.46	0.90	1000	
118 Sn	47.02	ug/l	52.24	0.61	#######	
118 Sn	47.46	ug/l	52.73	1.24	#######	
118 Sn	47.09	ug/l	52.32	1.53	1000	
121 Sb	41.73	ug/l	46.36	1.12	1000	
137 Ba	309.00	ug/l	343.30	0.20	1000	
205 Tl	42.27	ug/l	46.96	0.85	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	42.56	ug/l	47.28	1.05	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	637628.25	0.66	535705.94	119.0	70 - 120	
45 Sc	276411.44	1.15	277469.19	99.6	70 - 120	
45 Sc	112496.66	3.79	107568.42	104.6	70 - 120	
45 Sc	1139828.90	1.24	1040297.70	109.6	70 - 120	
72 Ge	76720.13	0.99	80174.67	95.7	70 - 120	
72 Ge	64321.81	1.56	64865.30	99.2	70 - 120	
72 Ge	221527.98	0.59	219085.67	101.1	70 - 120	
115 In	971104.94	0.18	1033595.60	94.0	70 - 120	
115 In	606904.81	0.60	609098.25	99.6	70 - 120	
115 In	1669609.30	0.63	1638831.60	101.9	70 - 120	
159 Tb	2583387.80	1.11	2443833.50	105.7	70 - 120	
165 Ho	2552965.30	1.16	2396067.30	106.5	70 - 120	

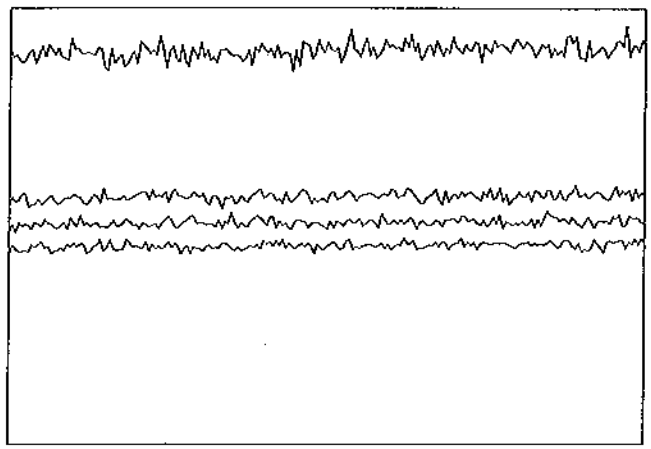
ISTD Ref File : C:\ICPCHEM\1\DATA\12A26K00.B\005CALB.D\005CALB.D#

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

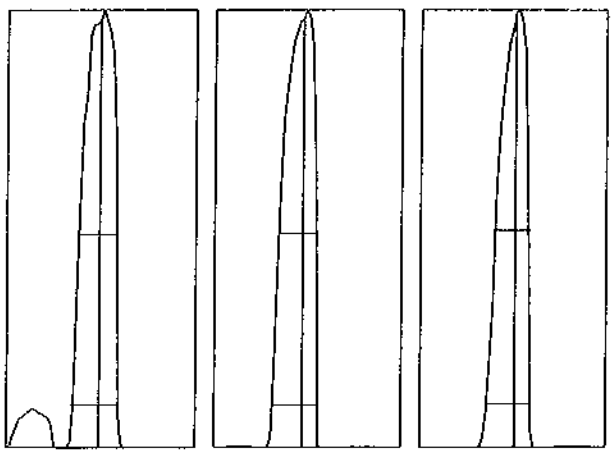
Tune Report

Tune File : nogas.u
Comment : 120126



Integration Time:	0.1000 sec	
Sampling Period:	0.6200 sec	
n:	200	
Oxide:	156/140	1.099%
Doubly Charged:	70/140	1.291%

m/z	Range	Count	Mean	RSD%	Background
7	10,000	9176.0	9020.2	2.00	0.90
89	50,000	25476.0	25398.7	1.74	0.70
205	50,000	23091.0	22755.5	1.80	1.40
156/140	2	1.176%	1.129%	7.15	
70/140	2	1.342%	1.284%	5.67	
140	50,000	28323.0	28379.4	1.80	0.80



m/z:	7	89	205
Height:	9,006	25,353	24,038
Axis:	7.00	88.95	205.05
W-50%:	0.65	0.65	0.60
W-10%:	0.7500	0.7500	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Generated : Jan 26, 2012 09:53:57
Printed : Jan 26, 2012 09:53:59

Tune Report

Tune File : nogas.u
Comment : 120126

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1600 W	Extract 1	:	0 V	AMU Gain	:	126
RF Matching	:	1.78 V	Extract 2	:	-134.5 V	AMU Offset	:	127
Smpl Depth	:	8 mm	Omega Bias-ce	:	-20 V	Axis Gain	:	1.0003
Torch-H	:	0 mm	Omega Lens-ce	:	0.6 V	Axis Offset	:	-0.03
Torch-V	:	-0.2 mm	Cell Entrance	:	-30 V	QP Bias	:	-3 V
Carrier Gas	:	1.03 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	:	1130 V
S/C Temp	:	2 degC	OctP Bias	:	-6 V			

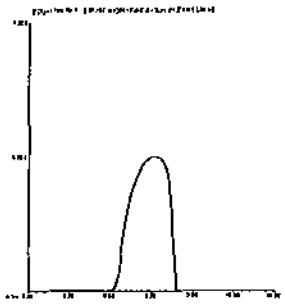
===Reaction Cell===								
Reaction Mode	:	OFF						
H2 Gas	:	0 mL/min	He Gas	:	0 mL/min	Optional Gas	:	--- %

200.8 QC Tune Report

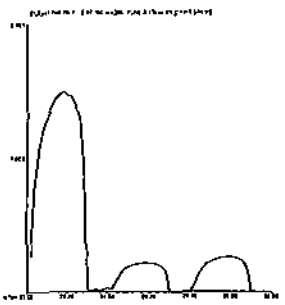
Data File: C:\ICPCHEM\1\DATA\12A26k00.B\001TUNE.D
Date Acquired: Jan 26 2012 10:30 am
Acq. Method: TN200_8.M
Operator: NBS
Sample Name: 100ppb Tune sol
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

RSD (%)

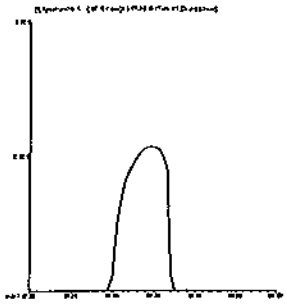
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	271078	268745	270589	271195	272483	272378	**0.91**	5.00	
24 Mg	854477	855928	851633	849745	857437	857640	**0.95**	5.00	
59 Co	1532680	1526071	1540823	1525650	1543090	1527765	**0.50**	5.00	
115 In	3179987	3173659	3168883	3171627	3199098	3186667	**0.72**	5.00	
208 Pb	1544146	1529880	1545767	1538204	1548899	1557977	**1.31**	5.00	



9 Be
Mass Calib.
Actual: 9.00
Required: 8.90 - 9.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



24 Mg
Mass Calib.
Actual: 23.95
Required: 23.90 - 24.10
Flag:
Peak Width
Actual: 0.60
Required: 0.80
Flag:



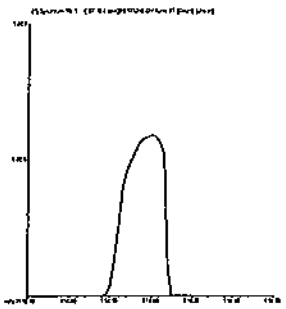
59 Co

Mass Calib.

Actual:	58.95		
Required:	58.90	-	59.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.90		
Flag:			



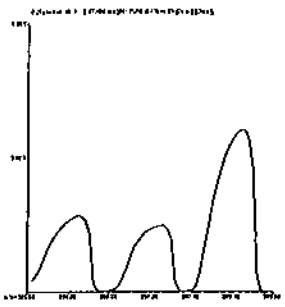
115 In

Mass Calib.

Actual:	115.00		
Required:	114.90	-	115.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.90		
Flag:			



208 Pb

Mass Calib.

Actual:	208.10		
Required:	207.90	-	208.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.80		
Flag:			

Tune Result: Pass

048

Metals Standards Log Book # 34 Page # 048

SA 1-26-12
6010B-C
(A)

1%HNO3 / 5%HCl BLK					6010B/6010C ICSA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	BDH	411040	12/28/11	1mL	Al	CPI	10E012-27685	04/20/12
20 mL	HNO3	JT BAKER	K23022	12/27/11	1mL	Ca	CPI	11A006-28528	09/15/12
Prepared in 2000 ml DI Water					1mL	Mg	CPI	10H213-2786	04/20/12
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1022245-27699	04/22/12
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1%HNO3/5%HCl				
0.5 mL	6010 LDL	ABSOLUTE	091409-25205	09/14/12	6010B/6010C ICSAB				
Prepared in 50 ml 1%HNO3/5%HCl					1mL	Al	CPI	10E012-27685	04/20/12
STD 3 / HDL 6010B/6010C					1mL	Ca	CPI	11A006-28528	09/15/12
1ML	CCV-A	ABSOLUTE	091409-25206	09/14/12	1mL	Mg	CPI	10H213-2786	04/20/12
1ML	CCV-B	ABSOLUTE	091109-25208	09/14/12	1mL	Fe	O2SI	1022245-27699	04/22/12
1ML	CCV-C	ABSOLUTE	091009-25207	09/10/12	0.5mL	JT SPECIAL M	O2SI	160495-01-01	03/01/12
Prepared in 100 ml 1%HNO3 / 5%HCl					Prepared in 50 ml 1%HNO3/5%HCl				
STD 2 / CCV1 6010B/6010C/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5ML	QCS ICV A	CPI	11C174-28548	09/17/12
25mL	STD 3	Today	1 week		0.5ML	QCS ICV B	CPI	11C174-28549	09/17/12
25mL	1%HNO3/5%HCl	Today	1 week		Prepared in 50ml 1%HNO3/5%HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	Today	1 week						
25mL	1%HNO3/5%HCl	Today	1 week						

SA 1-26-12

NBS 01/26/12

NBS 01/26/12
6020/6020A
(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date: 01/26/12
Expires: 02/02/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL DI Water
Lot # K19023
20mL HCL / 2000mL DI Water
Lot #4110110
Expires: 02/02/12

Internal Standard Mix: Prep 01/26/2012

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 01/26/12

Standard 3 02/02/12

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 01/26/12

Standard 2 02/02/12

Amount	STD		
500 uL	Standard 4		01/26/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 01/26/12

Standard 1 02/02/12

Amount	STD	
50 uL	Standard 4	01/26/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 01/26/12

ICP-MS ICV 02/02/12

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 01/26/12

ICSA Prep: 02/02/12

1 mL	ICSA	CPI	11C066-28529

Prepared in 5 mL of 1% HNO3/1.0% HCL 01/26/12

ICSAB Prep: 02/02/12

1mL	ICSA	CPI	11C066-28529
0.025mL	INT	O2SI	1023805-29210

Prepared in 5 mL of 1% HNO3/1.0% HCL 01/26/12

ICP-LDR 02/02/12

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 01/26/12

NBS 01/26/12

NBS 01/26/12

Internal Standard Concentration

Amt	STD	Element	Vendor	Lot#	Final Conc. in Std	Expires
100uL	1000 ug/mL	Li	CPI	10L079-27639	1000 ug/L	06/10/12
100uL	1000 ug/mL	In	CPI	10J155-28574	1000 ug/L	09/25/12
100uL	1000 ug/mL	Ho	CPI	10A107-28576	1000 ug/L	09/25/12
100uL	1000 ug/mL	Tb	CPI	11B054-28575	1000 ug/L	09/25/12
100uL	1000 ug/mL	Sc	o2si	1024073-28527	1000 ug/L	08/18/12
100uL	1000 ug/mL	Ge	Environmental Express	1116011-29361	1000 ug/L	02/08/13

Prep:	01/26/12	NBS	Prep in -	1%HNO3/1.0%HCL:	Lot #K19023/4110110 in 100mL
Expires:	02/25/12				

1-27-12 SA
SA 1-27-12
6010B-C
(A)

NBS 01/27/12
6020/6020A
(A)

KWS 01/27/12

NM 1/30/12

_M3015

Metals Digestion Worksheet

Method Name 3015 Digestion **Prep Method** M3015 **Set** 120126A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1030094-29883
Spiked ID 2	LCSW LOT# 1030098-29884
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 01/26/12 10:30:00 AM
Witnessed By	KWS Date: 01/26/12 10:30:00 AM

Starting Temp:	20 c
Ending Temp:	170 c
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	Yes
End Date/Time	01/26/12 11:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	120126A Blk				45mL	50mL	01/26/12 10:30	equip: Venus
2	120126A LCS		90uL	1+2	45mL	50mL	01/26/12 10:30	equip: Venus
3	AY53046	AY53046W09			45mL	50mL	01/26/12 10:30	equip: Venus
4	AY53047	AY53047W09			45mL	50mL	01/26/12 10:30	equip: Venus
5	AY53666	AY53666W08			45mL	50mL	01/26/12 10:30	equip: Venus
6	AY53667	AY53667W08			45mL	50mL	01/26/12 10:30	equip: Venus
7	AY53668	AY53668W08			45mL	50mL	01/26/12 10:30	equip: Venus
8	AY53668 MS	AY53668W08	90uL	1+2	45mL	50mL	01/26/12 10:30	equip: Venus
9	AY53668 MSD	AY53668W08	90uL	1+2	45mL	50mL	01/26/12 10:30	equip: Venus

Solvent and Lot#
HNO3 J.T.B K23022 0133

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's Initials	EA
Date	1-26-12
Time	11:30
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	lo
Bring up to volume	lo
Modified	01/26/12 9:25:09 AM

Reviewed By: EA 460 **Date:** 1-26-12

6020/200.8 Injection Log

Directory: K:\ICP-MS Optimus\raw data output csv\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	26 Jan 2012	10:56	Calibration Blank		120126Arev	1.
2	26 Jan 2012	11:03	120126 Standard 1		120126Arev	1.
3	26 Jan 2012	11:09	120126 Standard 2		120126Arev	1.
4	26 Jan 2012	11:16	120126 Standard 3		120126Arev	1.
5	26 Jan 2012	11:23	120126 Standard 4		120126Arev	1.
6	26 Jan 2012	11:30	ICV 120126		120126Arev	1.
8	26 Jan 2012	11:50	ICB 120126		120126Arev	1.
9	26 Jan 2012	11:57	CCV 120126		120126Arev	1.
10	26 Jan 2012	12:03	CCB 120126		120126Arev	1.
12	26 Jan 2012	12:23	LDR 500ppb 120126		120126Arev	1.
13	26 Jan 2012	12:36	ICSA 120126		120126Arev	1.
14	26 Jan 2012	12:43	ICSAB 120126		120126Arev	1.
81	26 Jan 2012	21:22	CCV 120126		120126Arev	1.
82	26 Jan 2012	21:36	CCB 120126		120126Arev	1.
83	26 Jan 2012	21:43	120126A-3015-BLK		120126Arev	1.
84	26 Jan 2012	21:56	120126A-3015-LCS		120126Arev	1.
87	26 Jan 2012	22:16	AY53666W08		120126Arev	1.
88	26 Jan 2012	22:23	AY53667W08		120126Arev	1.
89	26 Jan 2012	22:29	AY53668W08		120126Arev	1.
90	26 Jan 2012	22:36	AY53668W08 MS		120126Arev	1.
91	26 Jan 2012	22:43	AY53668W08 MSD		120126Arev	1.
93	26 Jan 2012	22:56	CCV 120126		120126Arev	1.
94	26 Jan 2012	23:10	CCB 120126		120126Arev	1.
95	26 Jan 2012	23:16	AY53668W08-A		120126Arev	1.
96	26 Jan 2012	23:23	AY53668W08-1/5		120126Arev	5.
98	26 Jan 2012	23:36	CCV 120126		120126Arev	1.
99	26 Jan 2012	23:50	CCB 120126		120126Arev	1.

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

February 22, 2012

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

Attn: Max Solmssen

Title: Report of Data: Case 66826

Project: Red Hill/1022-024

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

Dear Mr. Solmssen:

Samples were received January 27, 2012, in good condition. Written results for the requested analyses are provided on this February 22, 2012.

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.

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: 516

Data Validation Package
for
LTM Red Hill Bulk Fuel Storage Facility
SDG 66826
TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

SAMPLE RECEIPT INFORMATION

Sample receipt information

ARF: 66826

Project: Red Hill/1022-015

Sample Receipt Information:

The samples were received on January 27, 2012, at 1.5°C. The samples were assigned Analytical Request Form (ARF) number 66826. The sample numbers and requested analyses were compared to the chain of custody. One vial labeled ES060 and one liter bottle labeled ES061 were received broken; the plastic bottle labeled ES060 had a loose cap; the client was notified. No other exception was encountered.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
ES060	AY53807	WATER	01/26/12	01/27/12
ES061	AY53808	WATER	01/26/12	01/27/12
TRIP BLANK	AY53809	WATER	01/26/12	01/27/12

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

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

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

Measurement uncertainty can be reported upon request.

CASE NARRATIVE

EPA Method 8015B

Total Petroleum Hydrocarbons – Diesel

Sample Preparation:

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

Sample Analysis Information:

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

Quality Control/Assurance

Calibrations:

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

Blanks:

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

Spikes:

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

Sample ES060 was designated by the client for MS/MSD analysis. All acceptance criteria were met.

Surrogates:

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

Summary:

No problem was encountered

EPA Method 8270D SIM

Polynuclear Aromatic Hydrocarbons

Sample Preparation:

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

Sample Analysis Information:

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

Quality Control/Assurance

Calibrations:

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

Blanks:

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

Spikes:

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

Sample ES060 was designated by the client for MS/MSD analysis. For the MS/MSD, 2-Methylnaphthalene had a 41.6% RPD, and Benzo(a)anthracene recovered below the 55% lower control limit at 52.0% in the MS. All other recoveries met acceptance criteria.

Surrogates

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

Tuning:

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

Internal Standards

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

Summary:

No other problem was encountered.

EPA Method 8260B
Volatile Organic Analysis

Sample Preparation:

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

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector. All holding times were met. The samples were received in unpreserved vials; they were analyzed within seven days of collection. Manual integration for gasoline was performed on the MS/MSD, the second-source 0125C38W.D, the continuing calibration 0201C03W.D, and on every calibration point used to make the gasoline calibration curve. The integration was performed due to the computer integration not following the baseline. Chromatograms of before and after manual integration are enclosed. A summary of manual integrations performed on the gasoline MS/MSD is included in the QC Summary section of the report.

Quality Control/Assurance:

Calibrations:

Initial and continuing calibrations were performed according to the method. All system performance check compounds and calibration check compounds met DoD acceptance criteria. All calibration criteria were met.

Blanks:

In the 120127AC method blank, 1,2,4-Trichlorobenzene, 1,3-Dichloro-benzene, and Hexachlorobutadiene were detected at J-values below one half of the LOQ. These three analytes were not detected in any associated sample. No target analyte was detected above one-half the LOQ 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 and second-source criteria were met.

Sample ES060 was designated by the client for MS/MSD analysis. All criteria were met for the gasoline MS/MSD analysis, which was injected separately from the VOC analysis. The VOC MS/MSD analysis encountered difficulties with the instrument. The MS injected properly, but the instrument suffered an error during the MSD injection. The MSD data were not usable and only the MS data are reported.

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 method 3015. Samples ES060 and ES061 were preserved in the laboratory. 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 ES060 was designated by the client for MS/MSD analysis. The MS/MSD, PDS, and DT met all acceptance criteria.

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 66826

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** # **33005**
RAD Screen (Y/N): **Y** pH (Y/N): **Y**
Turn Around Type: **2 WEEKS**

Received by: **TBV**
Date Received: **01/27/12** Time: **11:30**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y** Time Zone:
Chest Temp(s): **1.5°C**
Color: **VOA,B-RED,R-ORYE**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Cynthia Clark**
QC Report Type: **DVP4/ADRDOD/HI**
Due Date: **02/10/12**

Comments:
14 day TAT for Form 1s & 30 day TAT for full package.
OSDas@, SFinneran@ & 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 OSDas@ VDupra@ & sfineran@environetinc.com
metals 6020: report Lead with 0.5ug/L RL
TPH-Diesel only; VOCs: include gasoline by 8260B
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

Charges:

Invoice To:
same

	Client ID		APPL ID	Sampled	Analyses Requested
1.	ES060	MS/MSD	AY53807W	01/26/12 10:00	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- un-preserved VOA vials
2.	ES061		AY53808W	01/26/12 12:15	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- un-preserved VOA vials
3.	TRIP BLANK		AY53809W	01/26/12 00:01	$86RHBF -- un-preserved VOA vials

Note: All times, excluding sample collection times, are Pacific Time Zone unless noted otherwise. Collection times are in:

APPL Sample Receipt Form

ARF# **66826**

Sample	Container Type	Count	pH
AY53807	[2] PL 500mL	2	NA
	[15] VOAs - NP	4	NA
	[17] Amber Liter	8	NA
	[33] Clear VOA - HCL	1	
AY53808	[2] PL 500mL	1	NA
	[15] VOAs - NP	2	NA
	[17] Amber Liter	3	NA
	[33] Clear VOA - HCL	1	NA
AY53809	[15] VOAs - NP	3	NA

Sample	Container Type	Count	pH

6682

APPL LABS

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

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

CHAIN OF CUSTODY RECORD

C.O.C. 33005

Report to: Max Solmssen PLEASE PRINT

Company Name: Environet, Inc Phone: 808-833-2225

Address: 1680 Inwilei RD, Suite 204
Honolulu, HI 96817 Fax:

Attn: Max Solmssen

Invoice to: PLEASE PRINT

Company Name: Environet Inc, Phone: 808-833-2225

Address: 1680 Inwilei RD, Suite 204
Honolulu, HI 96817 Fax:

Attn: Accounts Payable

Project Name/Number	Sampler (Print)
1022-024/ Red Hill	Max Solmssen
Purchase Order Number	Sampler (Signature)

Sample Identification	Location	Date Collected	Time Collected	No. of Containers	Matrix: Aq	Sed.	Soil	TPH-GRO	VOCs	TPH-DRO	PAHs	dissolved lead *
ES0160 MS/MSD	Red Hill	1/26/12	10:00	16	X			X	X	X	X	X
ES0161	↓	↓	12:15	8	X			↓	↓	↓	↓	↓
Trip blank				X				X	X			

Date Shipped: 1/26/12
Carrier: FEDEX
Waybill No.: 8748 0067 1634
Comments: * lead samples were field filtered.

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:
Max Solmssen	1/26/12	1920					
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					1/27/12	1130	

White: Return to client with report Yellow: Laboratory Copy Pink: Sampler

See reverse side for Container Preservative and Sampling Information

COOLER RECEIPT FORM

1) Project: LTM RED HILL BULK FUEL STORAGE FACILITY Date Received: 1.27.12

2) Coolers: Number of Coolers: 2

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

4) YES (NO) Were custody seals on outside of cooler? How many? — Date on seal? —

5) Name on seal? —

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: FEDEX

8) Shipping slip numbers: 1) 8748 0067 1634 2) 7956 4304 6088 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.): WET ICE, BUBBLE BAGS, ZIPLOC.

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) 1.5°C 2) 1.6°C 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: AY63807 W02

Smaller than a pea: AY53808 W02-3, AY63807 W05-6

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: METALS - PRESERVE ONLY. CA 1-27-12

Deficiencies: ID #'S: ES061 AND ES060 BOTH HAD BROKEN CONTAINERS ARRIVE. ES060 IS A VOA CONTAINER AND ES061 IS AN AMBER LITER CONTAINER.

ALSO, ONE CONTAINER WITH THE ES060 ID IS A 500ML PLASTIC THAT ARRIVED WITH A LOOSE CAP AND A SMALL PORTION OF ITS CONTENTS LEAKED INTO THE ZIPLOCK BAG, ~~WHICH~~ WHICH I CANNOT CONFIRM WAS SEALED.

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

Signature of project manager notified: [signature] Renee Date and Time of notification: 1-27-12

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

Information given to client: — by whom (initials): —

EPA 8015 Modified
Total Petroleum Hydrocarbons

EPA 8015 Modified
Total Petroleum Hydrocarbons
QC Summary

Method Blank
TPH Diesel Water

Blank Name/QCG: **120201W-53807 - 163826**
Batch ID: #TPETD-120201A

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	02/01/12	02/09/12
BLANK	SURROGATE: OCTACOSANE (S)	133	28-142			%	02/01/12	02/09/12
BLANK	SURROGATE: ORTHO-TERPHEN	88.8	57-132			%	02/01/12	02/09/12

Quant Method: TPH110.M
Run #: 207080
Instrument: Apollo
Sequence: 120207
Initials: LA

GC SC-Blank-REG MDLs
Printed: 02/22/12 11:04:16 AM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 02/09/12

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120201A-BLK	Blank	28-142	133		57-132	88.8	
120201A-LCS	Lab Control Spike	28-142	129		57-132	91.3	
AY53807-MS	Matrix Spike	28-142	120		57-132	97.3	
AY53807-MSD	Matrix SpikeD	28-142	126		57-132	97.3	
AY53807	ES060	28-142	129		57-132	84.3	
AY53808	ES061	28-142	132		57-132	96.9	

Comments: Batch: #TPETD-120201A

Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **120201W-53807 LCS - 163826**
Batch ID: #TPETD-120201A

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	1710	85.5	61-143
SURROGATE: OCTACOSANE (S)	150	194	129	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	137	91.3	57-132

Comments: _____

Primary	SPK
Quant Method :	TPH110.M
Extraction Date :	02/01/12
Analysis Date :	02/09/12
Instrument :	Apollo
Run :	207081
Initials :	LA

Printed: 02/22/12 11:04:09 AM

APPL Standard LCS

Matrix Spike Recoveries

TPH Diesel Water

APPL ID: **120201W-53807 MS - 163826**
Batch ID: #TPETD-120201A
Sample ID: AY53807
Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL FUEL	2000	ND	1720	1650	86.0	82.5	61-143	4.2	30
SURROGATE: OCTACOSANE (S)	150	NA	180	189	120	126	28-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	NA	146	146	97.3	97.3	57-132		

Comments: _____

Primary	SPK	DUP
Quant Method :	TPH110.M	TPH110.M
Extraction Date :	02/01/12	02/01/12
Analysis Date :	02/09/12	02/09/12
Instrument :	Apollo	Apollo
Run :	207087	207088
Initials :	LA	

Printed: 02/22/12 11:04:02 AM
APPL MSD SCII

EPA 8015B-e

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 02/09/12

Matrix: WATER Instrument: Apollo

Blank ID: 120201A-BLK Time Analyzed: 1912

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120201A-BLK	Blank	207080	02/09/12 1912
120201A-LCS	Lab Control Spike	207081	02/09/12 1936
120201A-MS	Matrix Spike	207087	02/09/12 2158
120201A-MSD	Matrix SpikeD	207088	02/09/12 2222
AY53807	ES060	207089	02/09/12 2245
AY53808	ES061	207090	02/09/12 2309

Comments: Batch: #TPETD-120201A

EPA 8015 Modified
Total Petroleum Hydrocarbons
Sample Data

TPH Diesel Water

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

Attn: Max Solmssen

Project: RED HILL/1022-024

Sample ID: ES060

Sample Collection Date: 01/26/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66826

APPL ID: AY53807

QCG: #TPETD-120201A-163826

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	02/01/12	02/09/12
EPA 8015B-	SURROGATE: OCTACOSANE (S)	129	28-142			%	02/01/12	02/09/12
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	84.3	57-132			%	02/01/12	02/09/12

Quant Method:	TPH110.M
Run #:	207089
Instrument:	Apollo
Sequence:	120207
Dilution Factor:	1
Initials:	LA

Printed: 02/22/12 11:04:12 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120207\207089.D Vial: 89
Acq On : 2-9-12 22:45:53 Operator: LAC
Sample : AY53807W08 5/1040 Inst : Apollo
Misc : water Multiplr: 4.81
IntFile : events.e
Quant Time: Feb 10 11:32 2012 Quant Results File: TPH110.RES

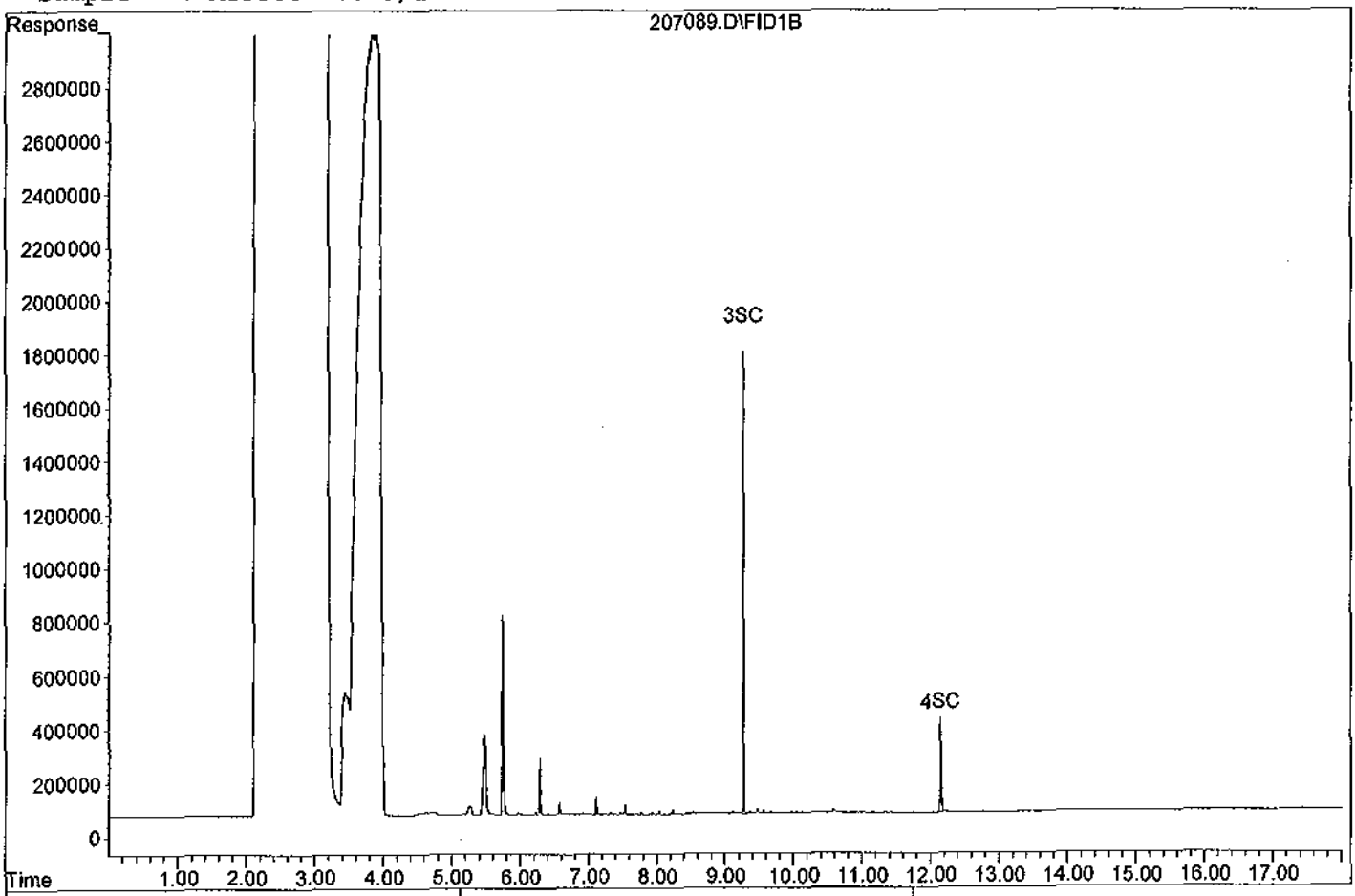
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

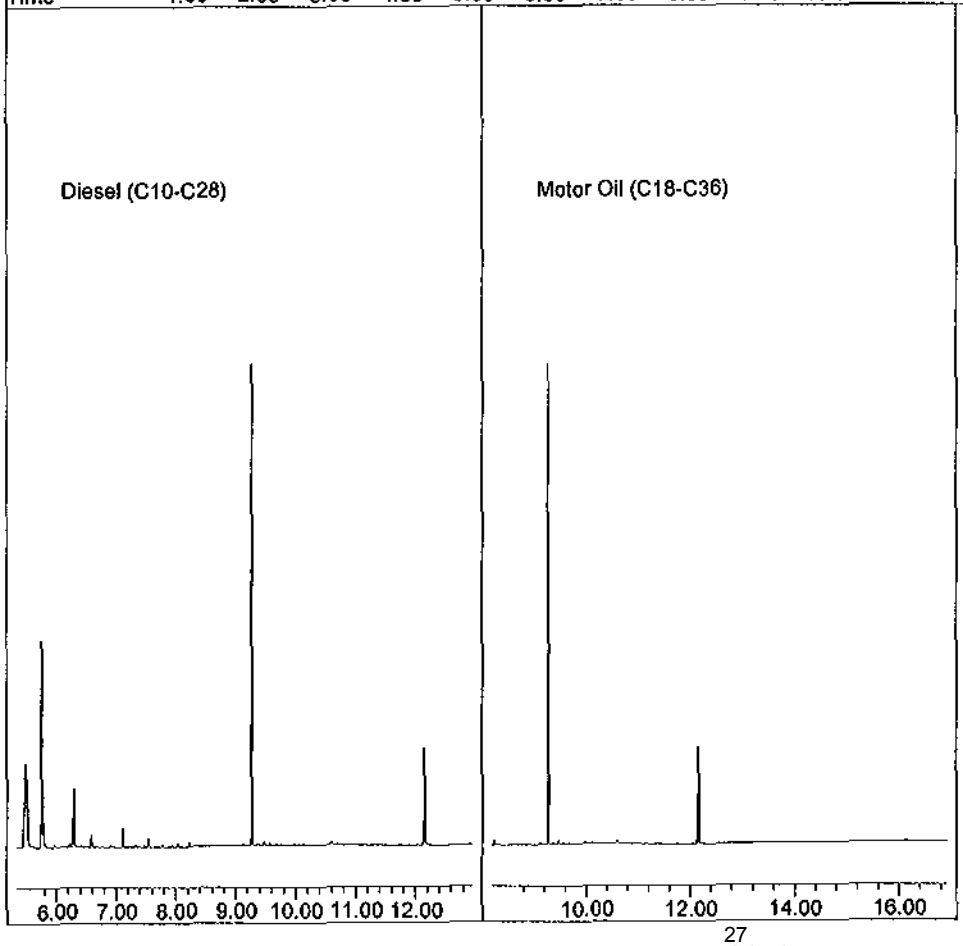
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	11148123	121.622 ppb
Surrogate Spike 144.231		Recovery =	84.32%
4) SC Octacosane(S)	12.15	4411424	185.350 ppb
Surrogate Spike 144.231		Recovery =	128.51%
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\120207\207089.D
Sample : AY53807W08 5/1040





TPH Diesel Water

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

Attn: Max Solmssen

Project: RED HILL/1022-024

Sample ID: ES061

Sample Collection Date: 01/26/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66826

APPL ID: AY53808

QCG: #TPETD-120201A-163826

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	1700 ++	150	80.8	40.4	ug/L	02/01/12	02/09/12
EPA 8015B-	SURROGATE: OCTACOSANE (S)	132	28-142			%	02/01/12	02/09/12
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	96.9	57-132			%	02/01/12	02/09/12

++(T6) The analyst has noted that the chromatogram of this sample is mainly a match to hydrocarbons within the range of diesel fuel.

Quant Method: TPH110.M
Run #: 207090
Instrument: Apollo
Sequence: 120207
Dilution Factor: 1
Initials: LA

Printed: 02/22/12 11:04:12 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120207\207090.D Vial: 90
Acq On : 2-9-12 23:09:27 Operator: LAC
Sample : AY53808 W07 5/1030 Inst : Apollo
Misc : Water Multiplr: 4.85
IntFile : events.e
Quant Time: Feb 10 11:32 2012 Quant Results File: TPH110.RES

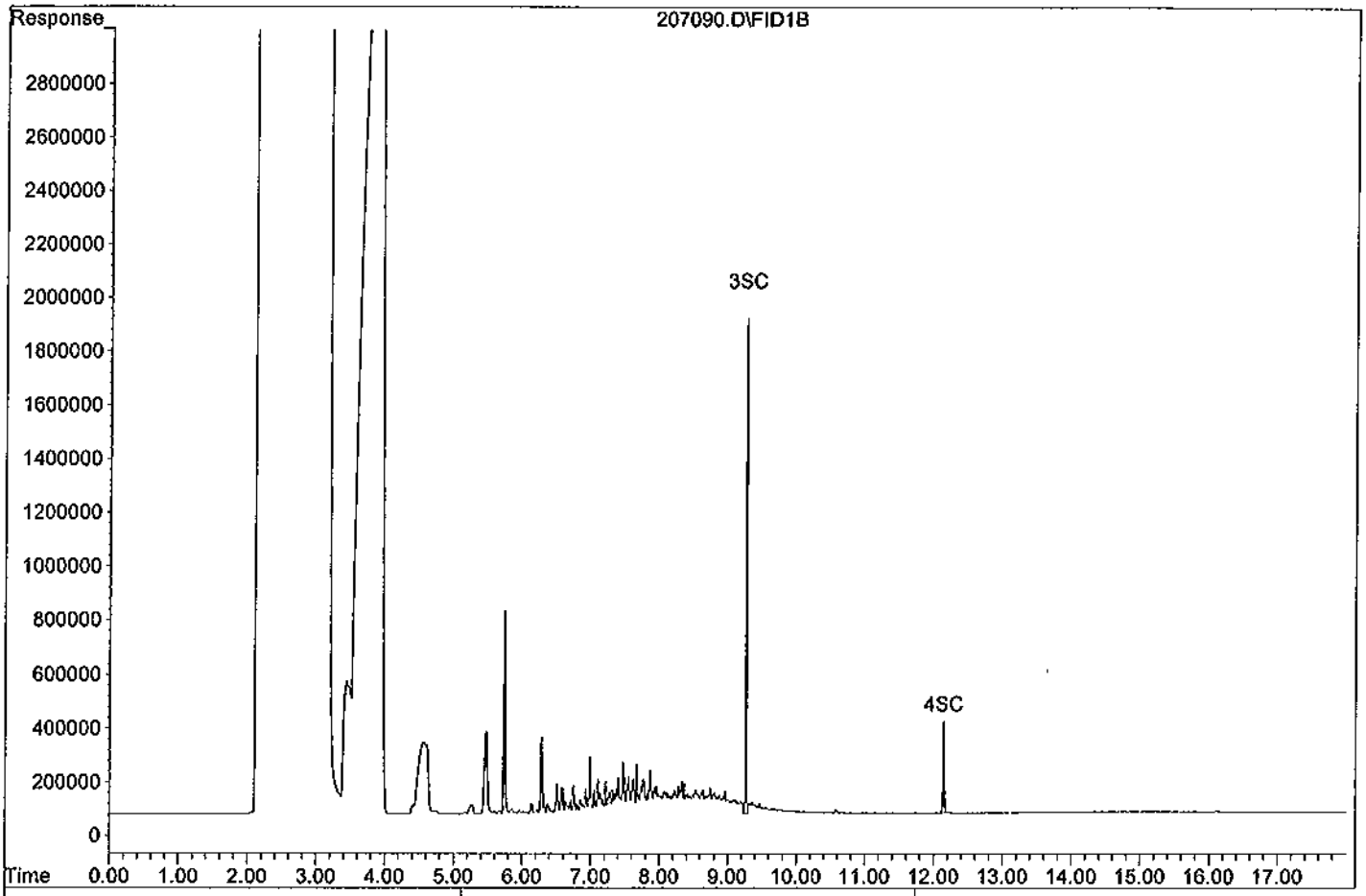
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

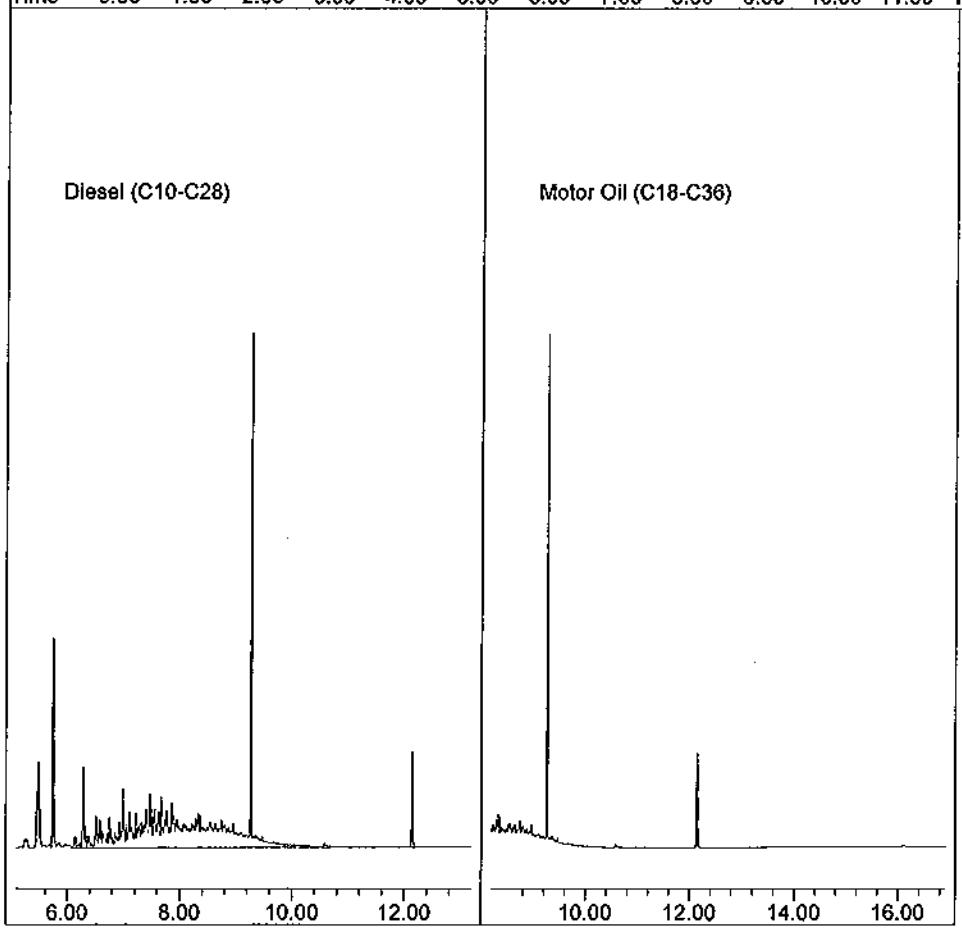
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	12803987	141.043 ppb
Surrogate Spike 145.631		Recovery =	96.85%
4) SC Octacosane(S)	12.14	4527735	192.084 ppb
Surrogate Spike 145.631		Recovery =	131.90%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	125279233	1663.215 ppb

TB
AK 2/22/12

Data File: G:\APOLLO\DATA\120207\207090.D
Sample : AY53808 W07 5/1030





EPA 8015 Modified
Total Petroleum Hydrocarbons

Calibration Data

TPH Extractables
TPH110

Form 6
Initial Calibration

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

SDG No: 66826
Initial Cal. Date: 01/10/12
Instrument: Apollo

Initials: MA

Diesel	110005.D	110006.D	110007.D	110008.D	110009.D	110010.D	
Motor oil	110011.D	110012.D	110013.D	110014.D	110015.D	110016.D	
surrogates	110018.D	110019.D	110020.D	110021.D	110022.D	110023.D	

		Compound	1	2	3	4	5	6					Avg	%RSD		
1	HATML	Diesel (C10-C28)	301375	187119	180268	180711	181942	183406					202470	24	HATML	1.000
2	HBTM	Motor Oil (C18-C36)	73318	66482	78358	85039	88255	92384					80639	12	HBTM	
3	SC	Ortho-Terphenyl(S)	190742	237568	220390	224376	220235	228734					220341	7.2	SC	
4	SC	Octacosane(S)		57639	56092	56515	56861	59156					57213	2.1	SC	
5																
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10																
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35																

1.2968169

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120110\110005.D Vial: 5
Acq On : 1-10-12 16:51:33 Operator: LAC
Sample : DIESEL 10/1000 1/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 1 15:20 2012 Quant Results File: TPH110.RES

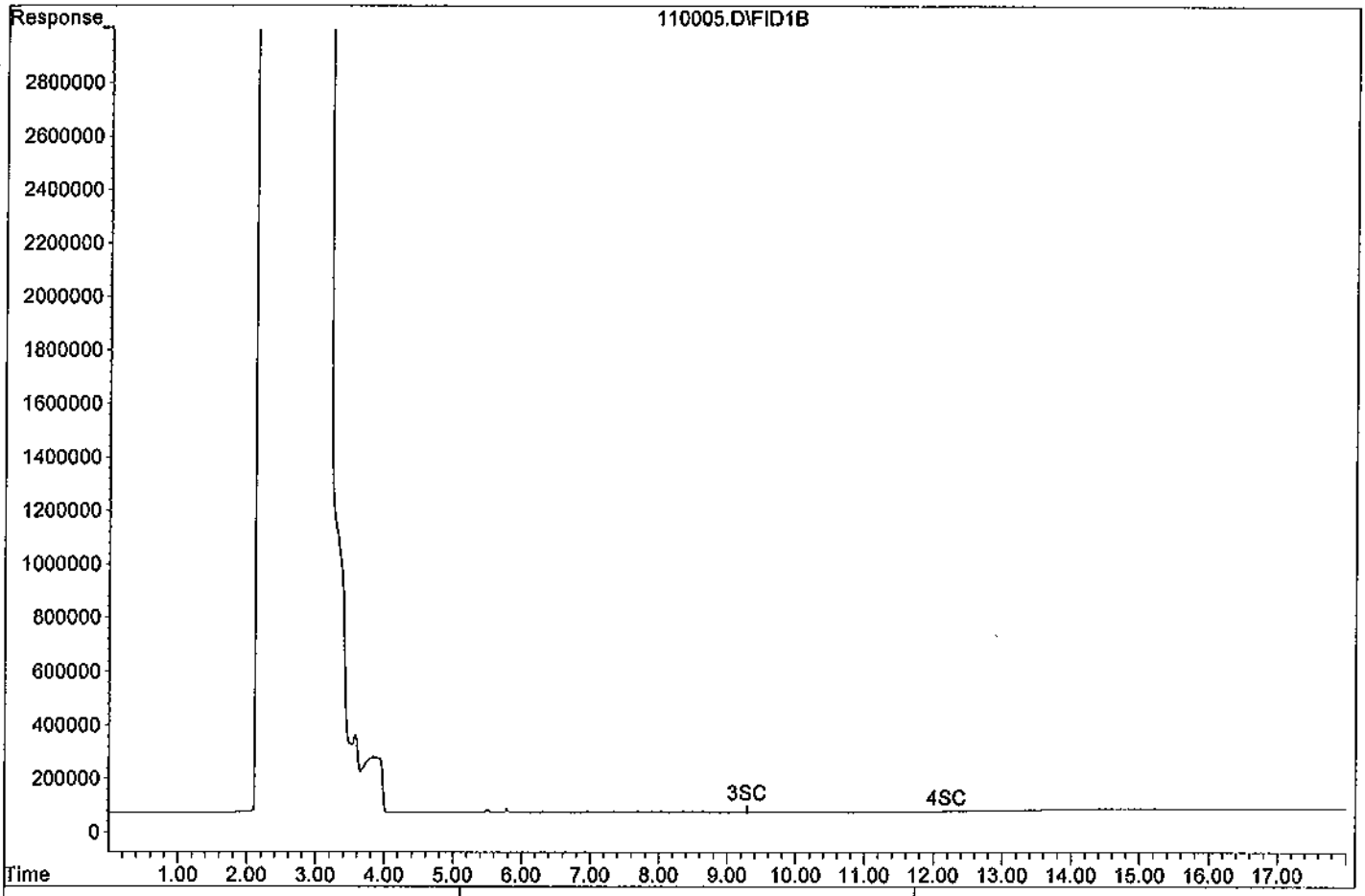
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

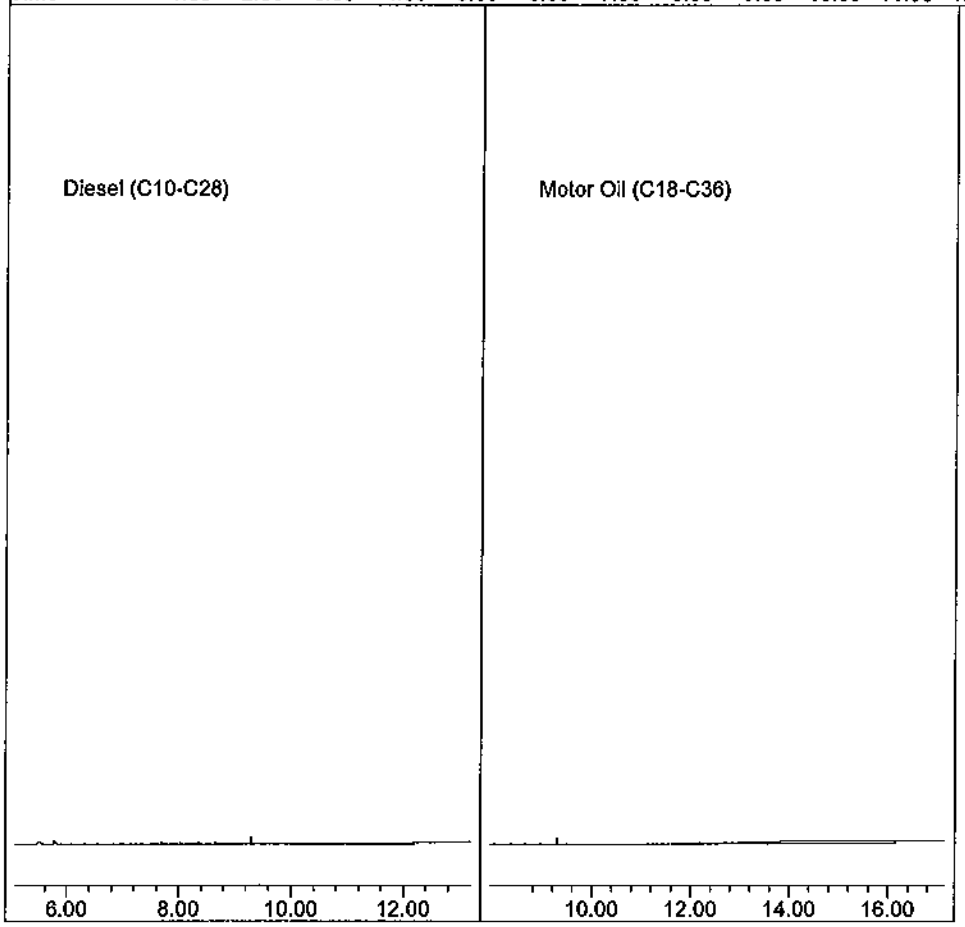
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.29	197584	0.448 ppb
Surrogate Spike 30.000	Recovery	=	1.49%
4) SC Octacosane(S)	12.19	18093	0.158 ppb
Surrogate Spike 30.000	Recovery	=	0.53%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	6068530	14.919 ppb
2) HBTM Motor Oil (C18-C36)	12.55	18118122	112.341 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
110005.D TPH110.M Mon Feb 20 10:04:59 2012 Page 1

Data File: G:\APOLLO\DATA\120110\110005.D
Sample : DIESEL 10/1000 1/10/12





Quantitation Report (Not Reviewed)

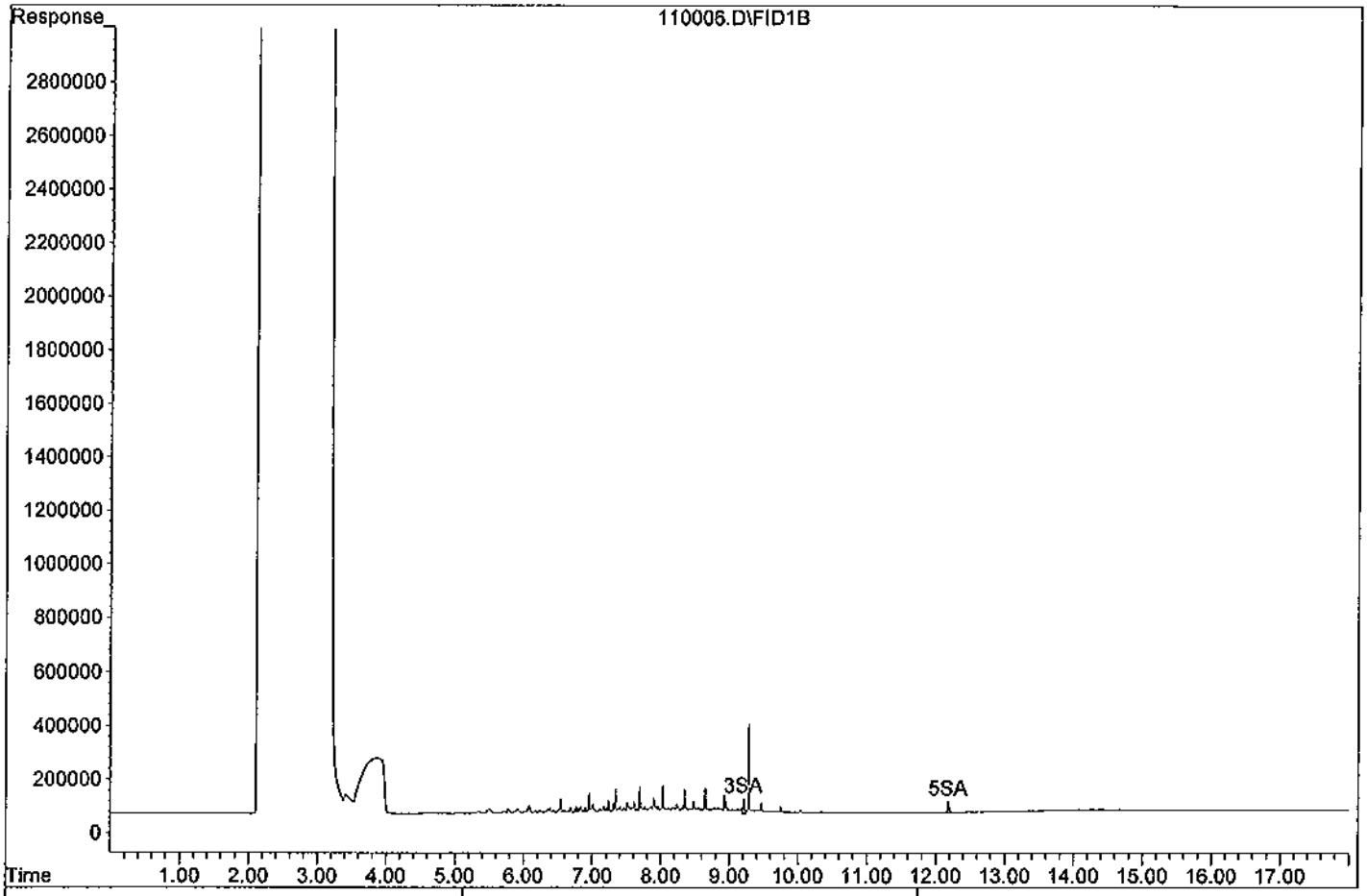
Data File : G:\APOLLO\DATA\120110\110006.D Vial: 6
Acq On : 1-10-12 17:15:27 Operator: LAC
Sample : DIESEL 100/1000 1/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

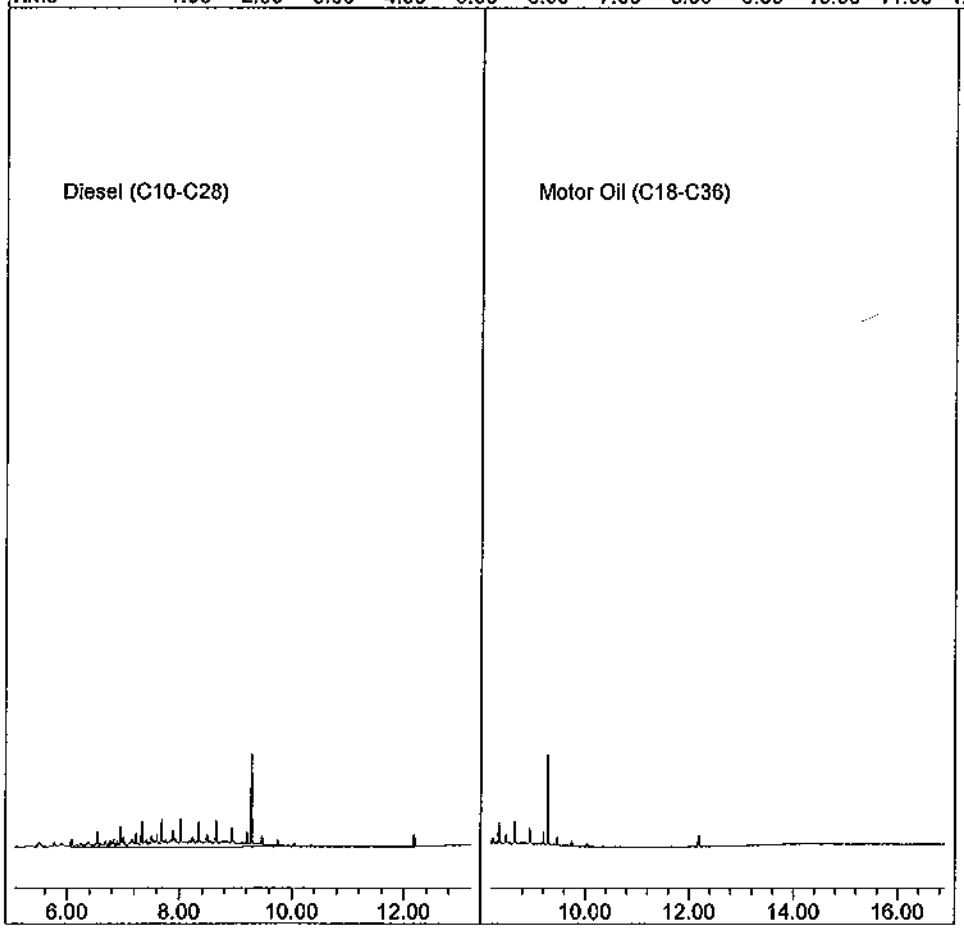
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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	636812	4.504 ppb
Surrogate Spike 30.000	Recovery =		15.01%
5) SA Not Used2(S)	12.18	537522	5.110 ppb
Surrogate Spike 30.000	Recovery =		17.03%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	37423772	101.113 ppb

Data File: G:\APOLLO\DATA\120110\110006.D
Sample : DIESEL 100/1000 1/10/12





Quantitation Report (Not Reviewed)

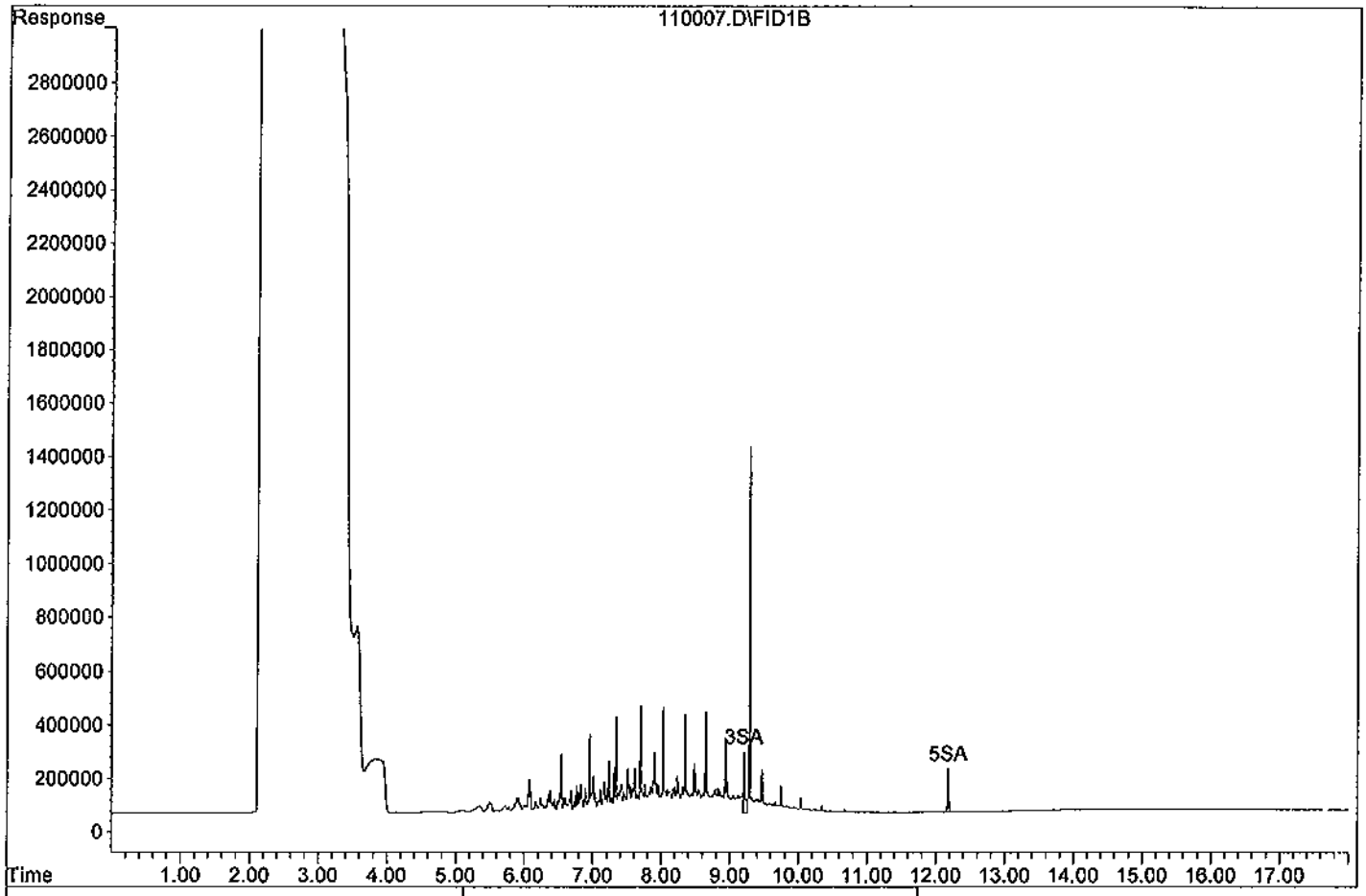
Data File : G:\APOLLO\DATA\120110\110007.D Vial: 7
Acq On : 1-10-12 17:39:13 Operator: LAC
Sample : DIESEL 400/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

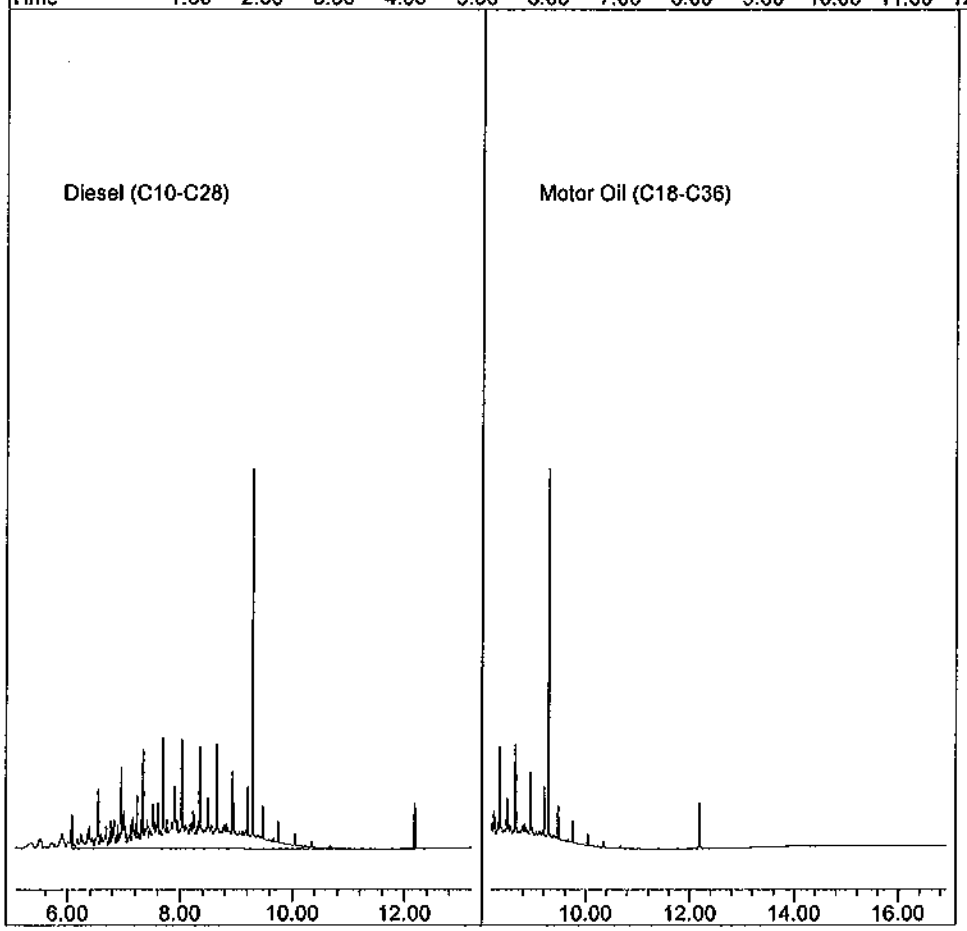
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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	3041362	21.509 ppb
Surrogate Spike 30.000	Recovery =		71.70%
5) SA Not Used2(S)	12.18	2048967	19.480 ppb
Surrogate Spike 30.000	Recovery =		64.93%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	144214362	394.674 ppb

Data File: G:\APOLLO\DATA\120110\110007.D
Sample : DIESEL 400/1000





Quantitation Report (Not Reviewed)

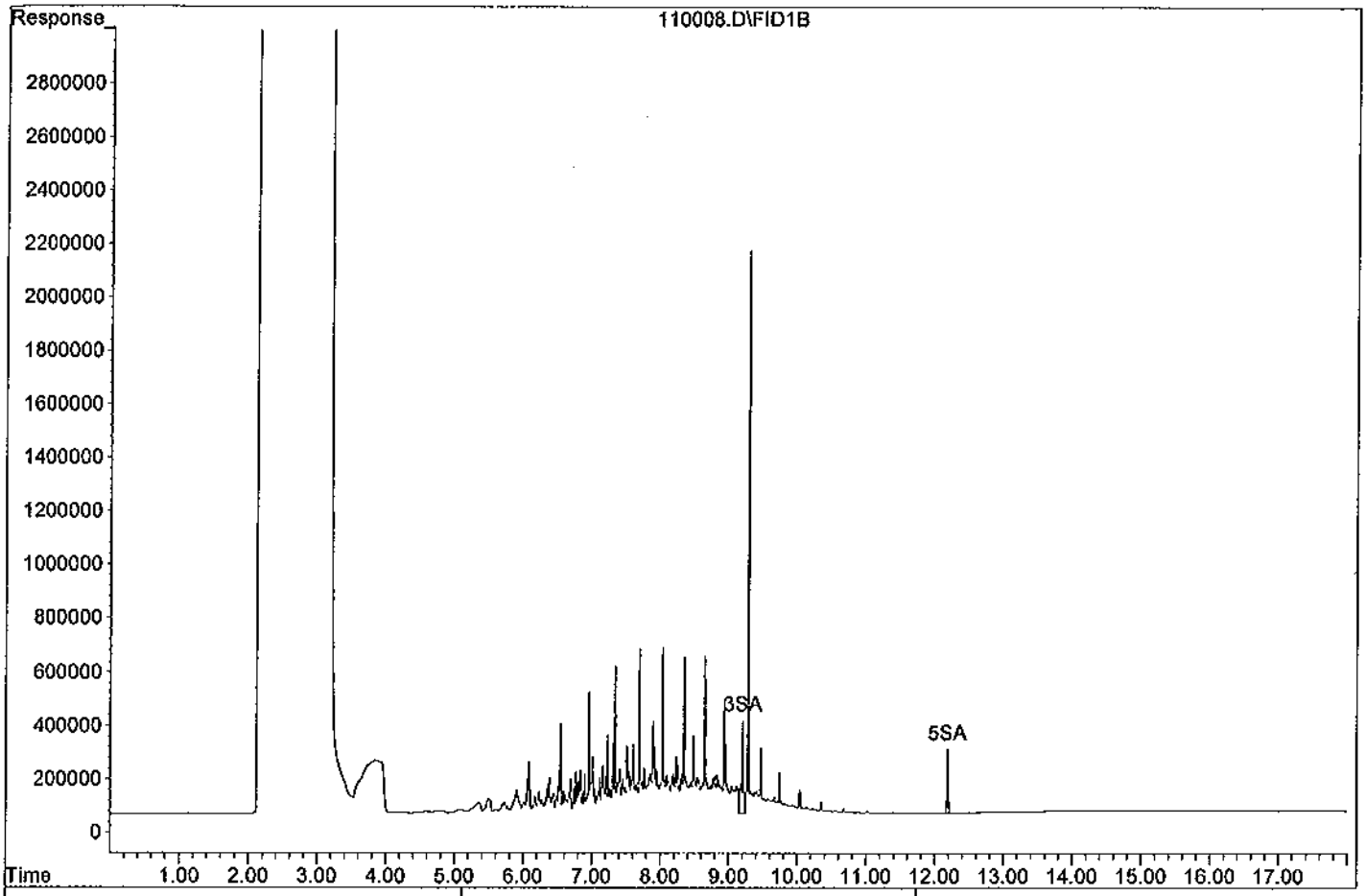
Data File : G:\APOLLO\DATA\120110\110008.D Vial: 8
Acq On : 1-10-12 18:02:56 Operator: LAC
Sample : DIESEL 600/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

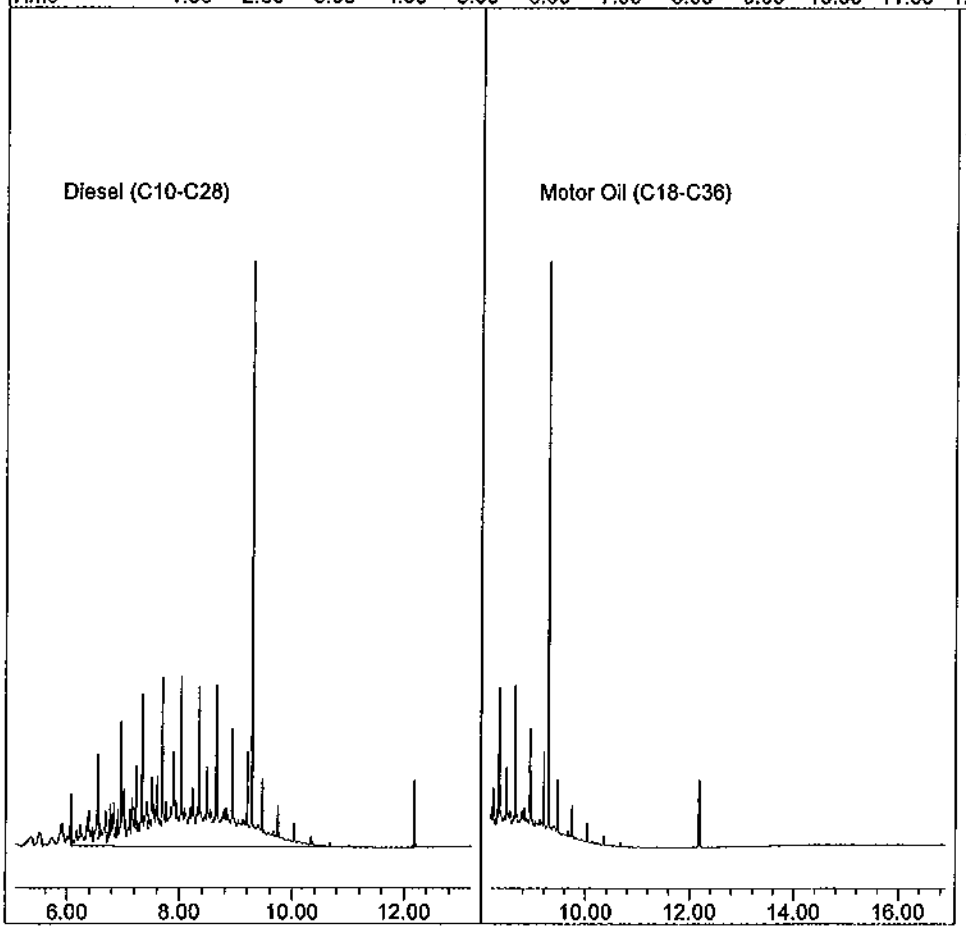
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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	6362542	44.998 ppb
Surrogate Spike 30.000	Recovery =		149.99%
5) SA Not Used2(S)	12.18	3151704	29.965 ppb
Surrogate Spike 30.000	Recovery =		99.88%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	216853093	594.353 ppb

Data File: G:\APOLLO\DATA\120110\110008.D
Sample : DIESEL 600/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120110\110009.D Vial: 9
Acq On : 1-10-12 18:26:41 Operator: LAC
Sample : DIESEL 800/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

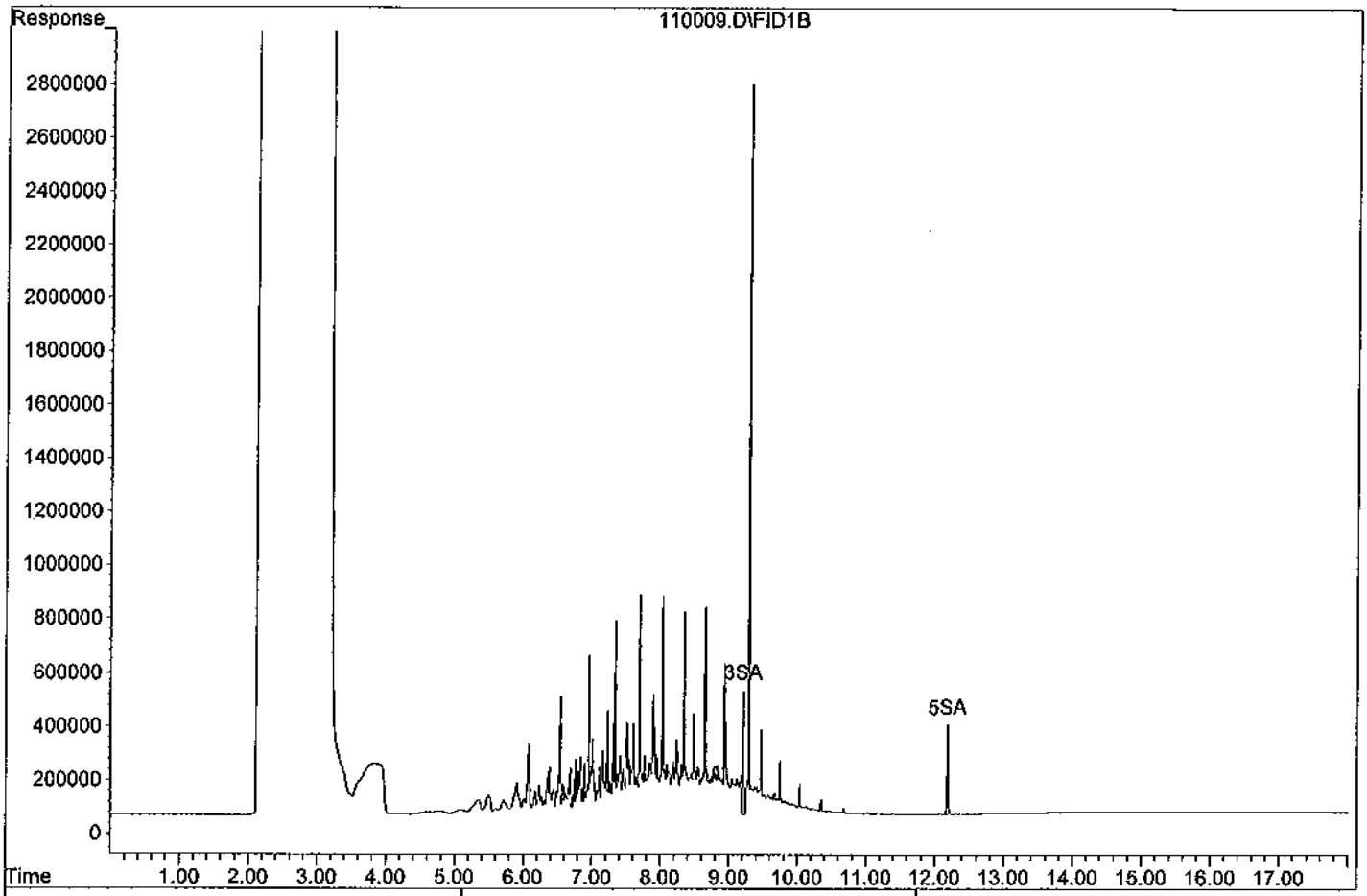
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

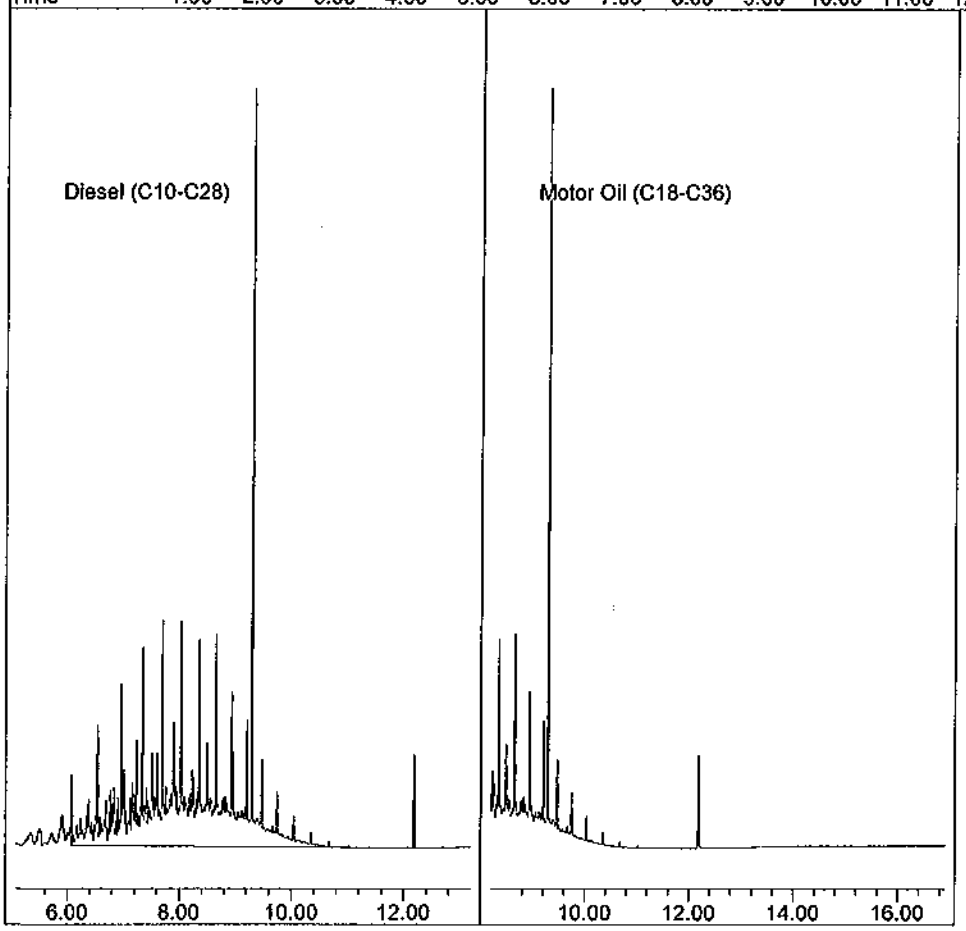
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Not Used(S)	9.21	5459165	38.609	ppb
Surrogate Spike 30.000	Recovery =		128.70%	
5) SA Not Used2(S)	12.18	4214185	40.066	ppb
Surrogate Spike 30.000	Recovery =		133.55%	
Target Compounds				
1) HATM Diesel (C10-C28)	9.14	291107205	798.473	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
110009.D TPH110.M Mon Feb 20 10:05:11 2012 Page 1

Data File: G:\APOLLO\DATA\120110\110009.D
Sample : DIESEL 800/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120110\110010.D Vial: 10
Acq On : 1-10-12 18:50:21 Operator: LAC
Sample : DIESEL 1000/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

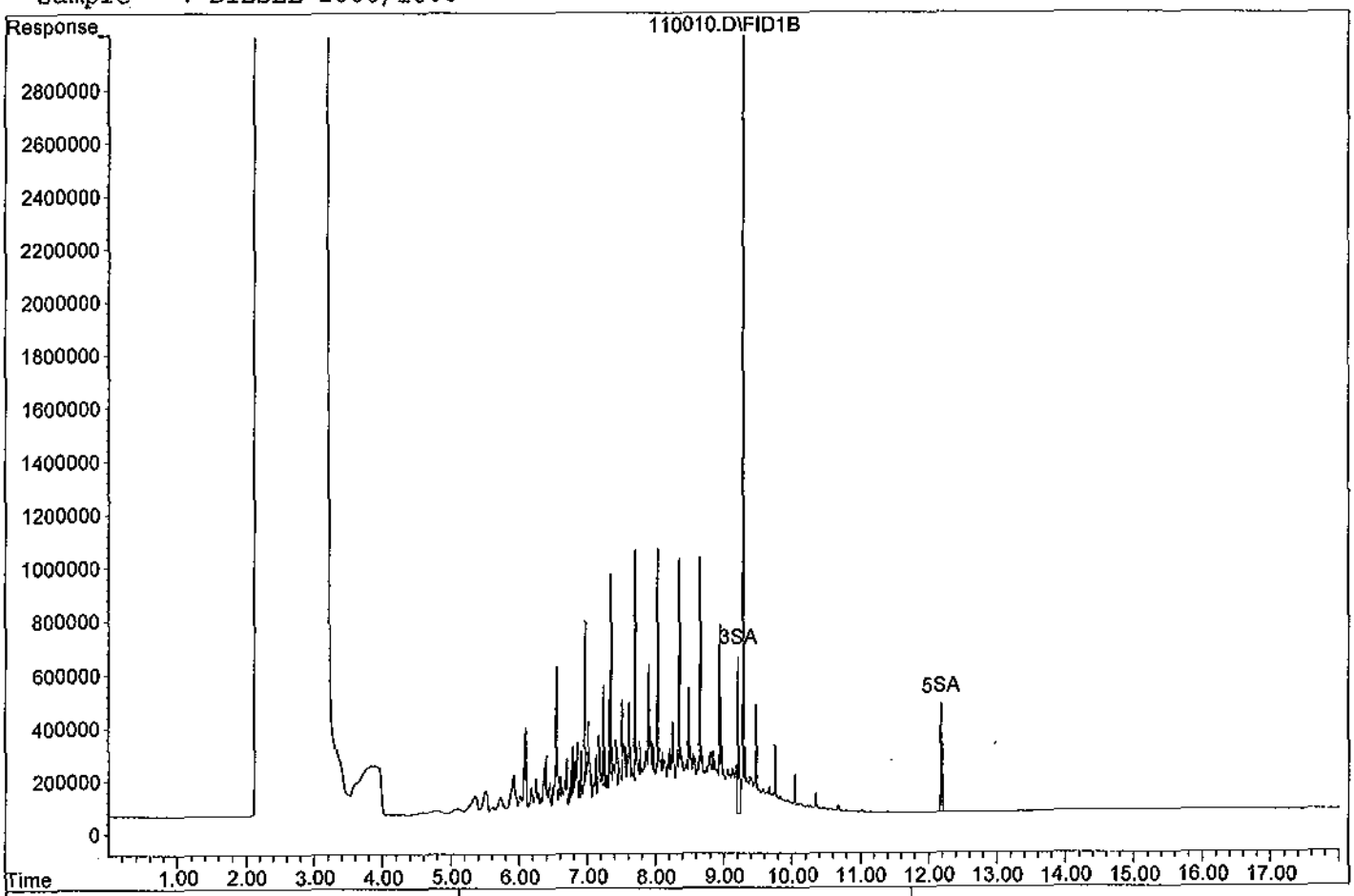
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

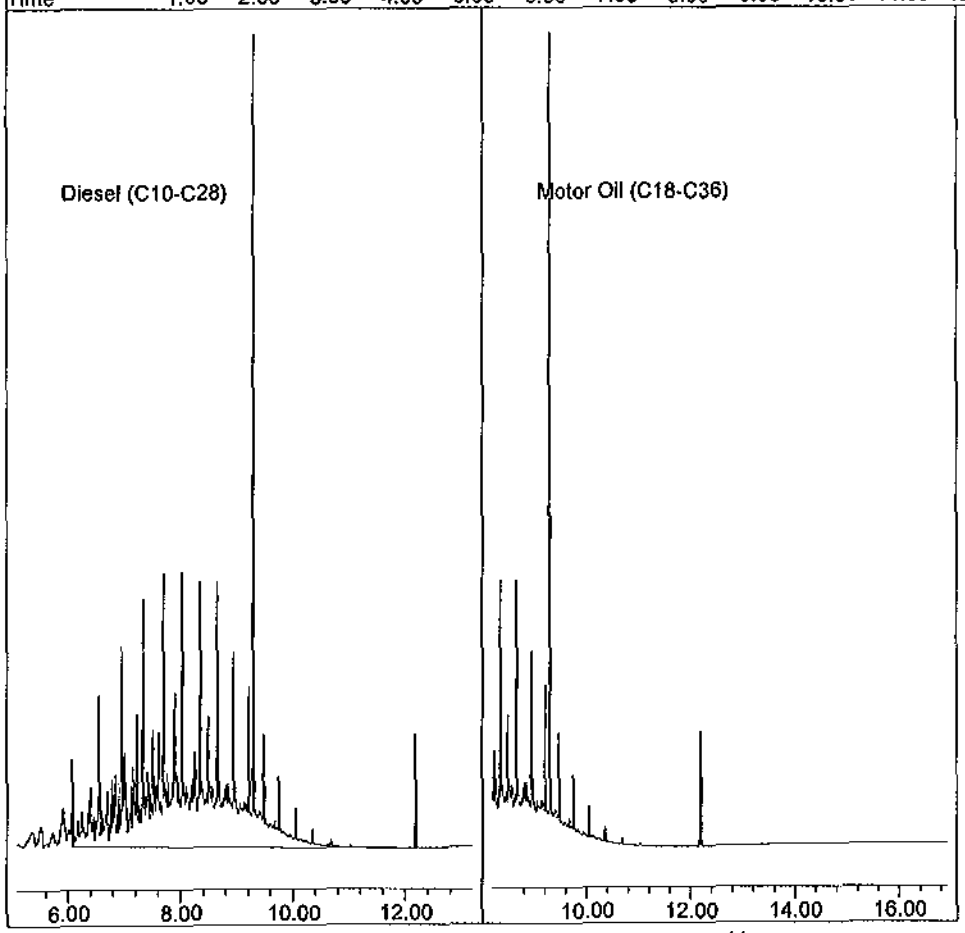
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Not Used(S)	9.21	6915848	48.911	ppb
Surrogate Spike 30.000	Recovery =		163.04%	
5) SA Not Used2(S)	12.18	5277007	50.171	ppb
Surrogate Spike 30.000	Recovery =		167.24%	
Target Compounds				
1) HATM Diesel (C10-C28)	9.14	366811636	1006.580	ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
110010.D TPH110.M Mon Feb 20 10:05:13 2012 Page 1

Data File: G:\APOLLO\DATA\120110\110010.D
Sample : DIESEL 1000/1000





Quantitation Report (Not Reviewed)

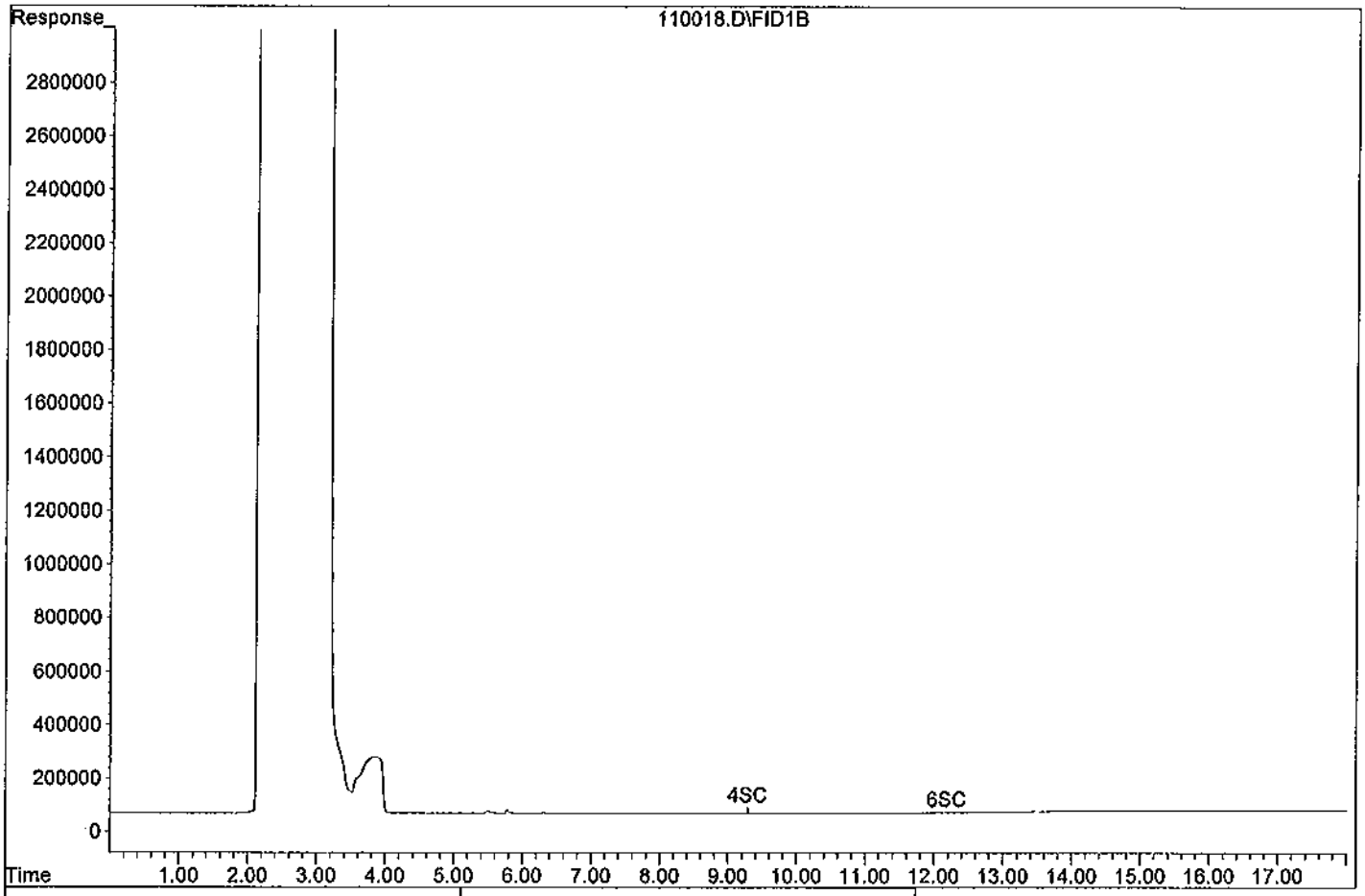
Data File : G:\APOLLO\DATA\120110\110018.D Vial: 18
Acq On : 1-10-12 21:58:40 Operator: LAC
Sample : THC SURR 10/1000 1/10/12 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

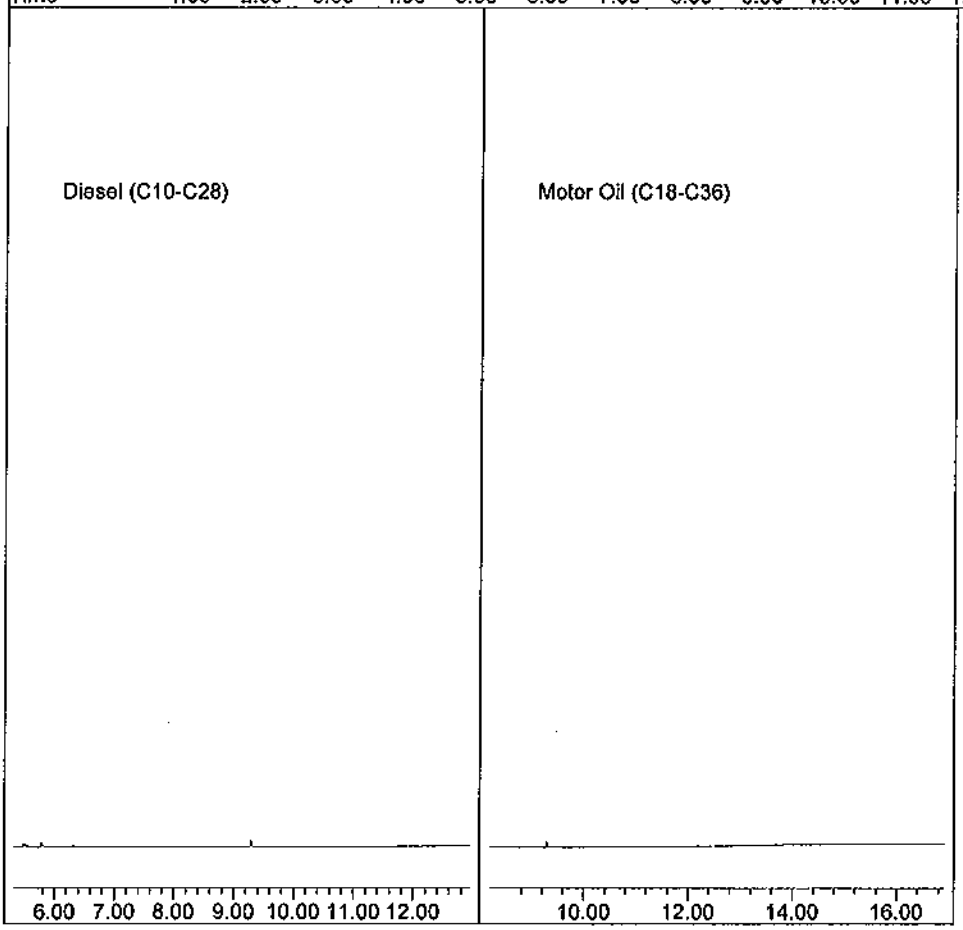
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.28	190742	0.433 ppb
Surrogate Spike 30.000	Recovery	=	1.44%
6) SC Octacosane(S)	12.19	15939	0.158 ppb
Surrogate Spike 30.000	Recovery	=	0.53%
Target Compounds			

Data File: G:\APOLLO\DATA\120110\110018.D
Sample : THC SURR 10/1000 1/10/12





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120110\110019.D Vial: 19
Acq On : 1-10-12 22:22:01 Operator: LAC
Sample : THC SURR 100/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

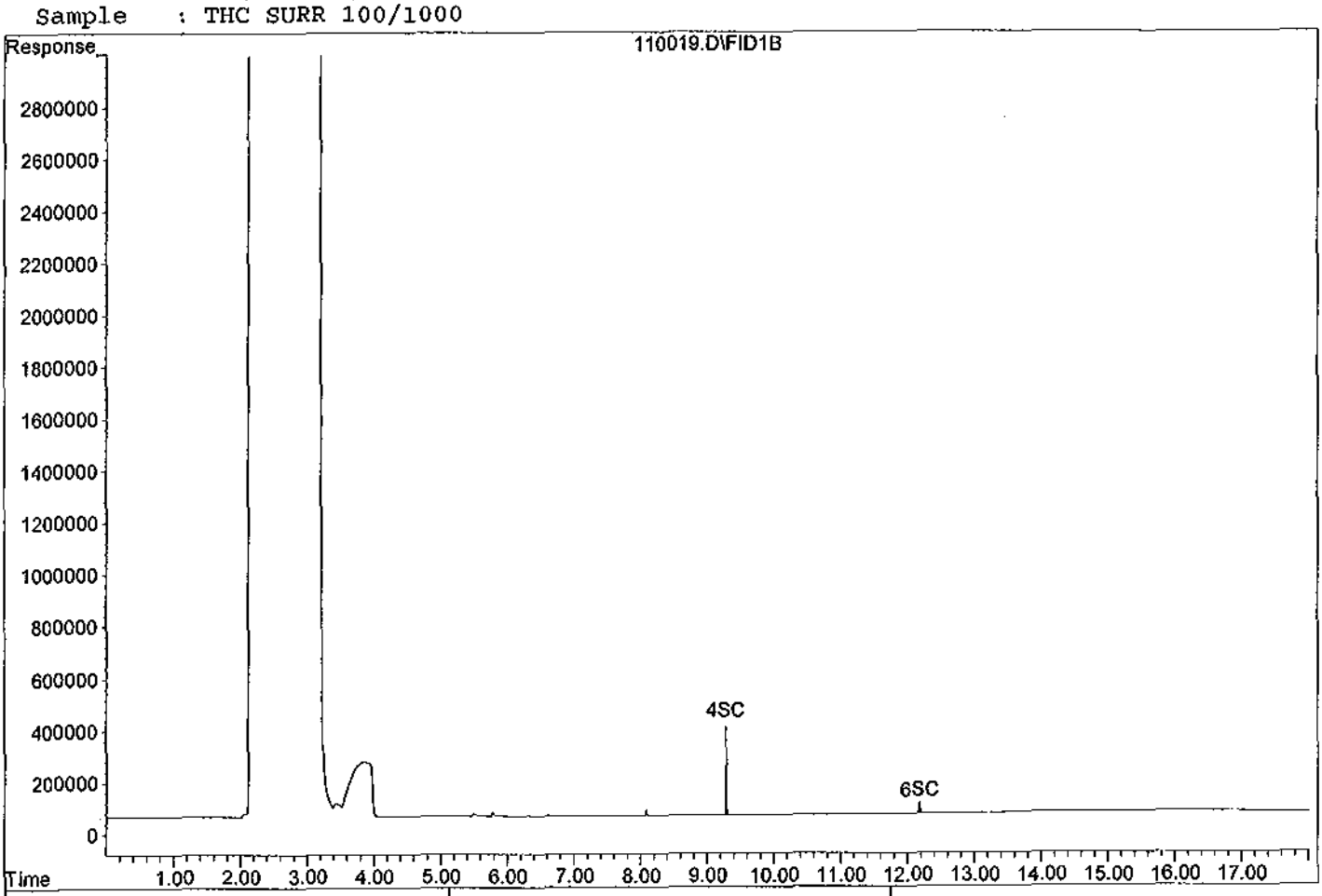
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

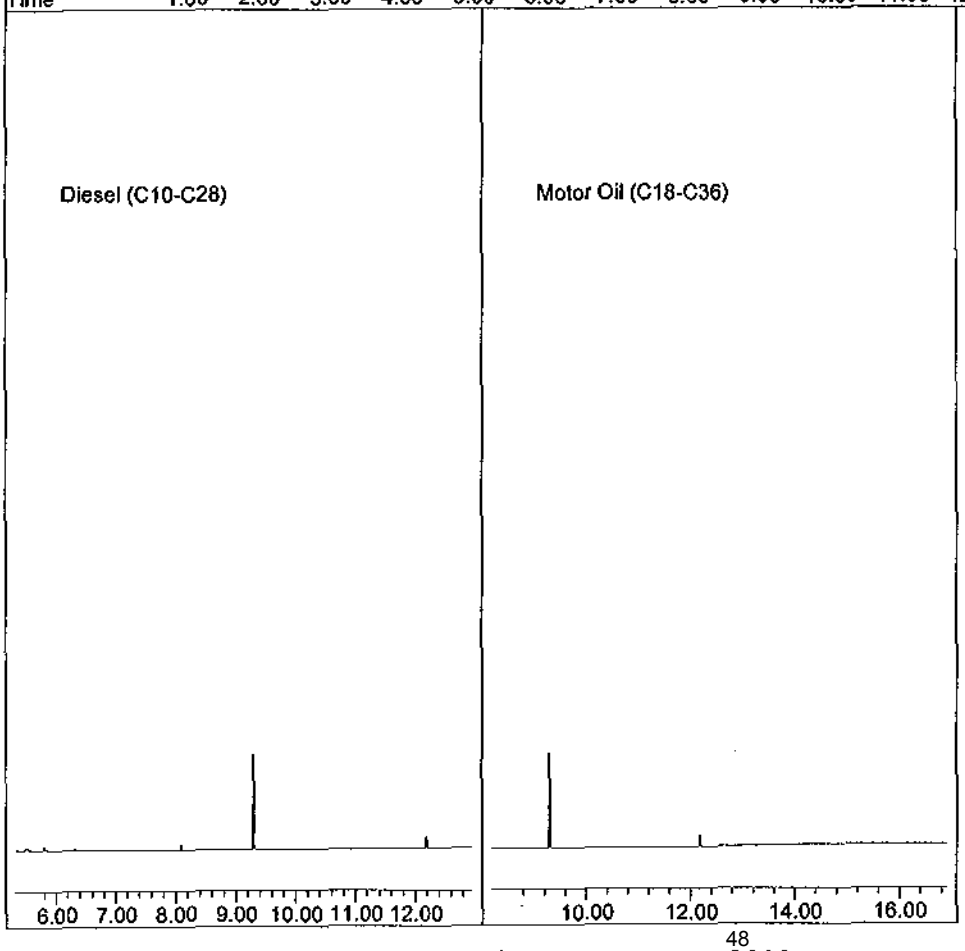
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.28	2375684	5.391	ppb
Surrogate Spike 30.000	Recovery =		17.97%	
6) SC Octacosane(S)	12.18	576394	5.726	ppb
Surrogate Spike 30.000	Recovery =		19.09%	
Target Compounds				

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

Data File: G:\APOLLO\DATA\120110\110019.D
Sample : THC SURR 100/1000





Quantitation Report (Not Reviewed)

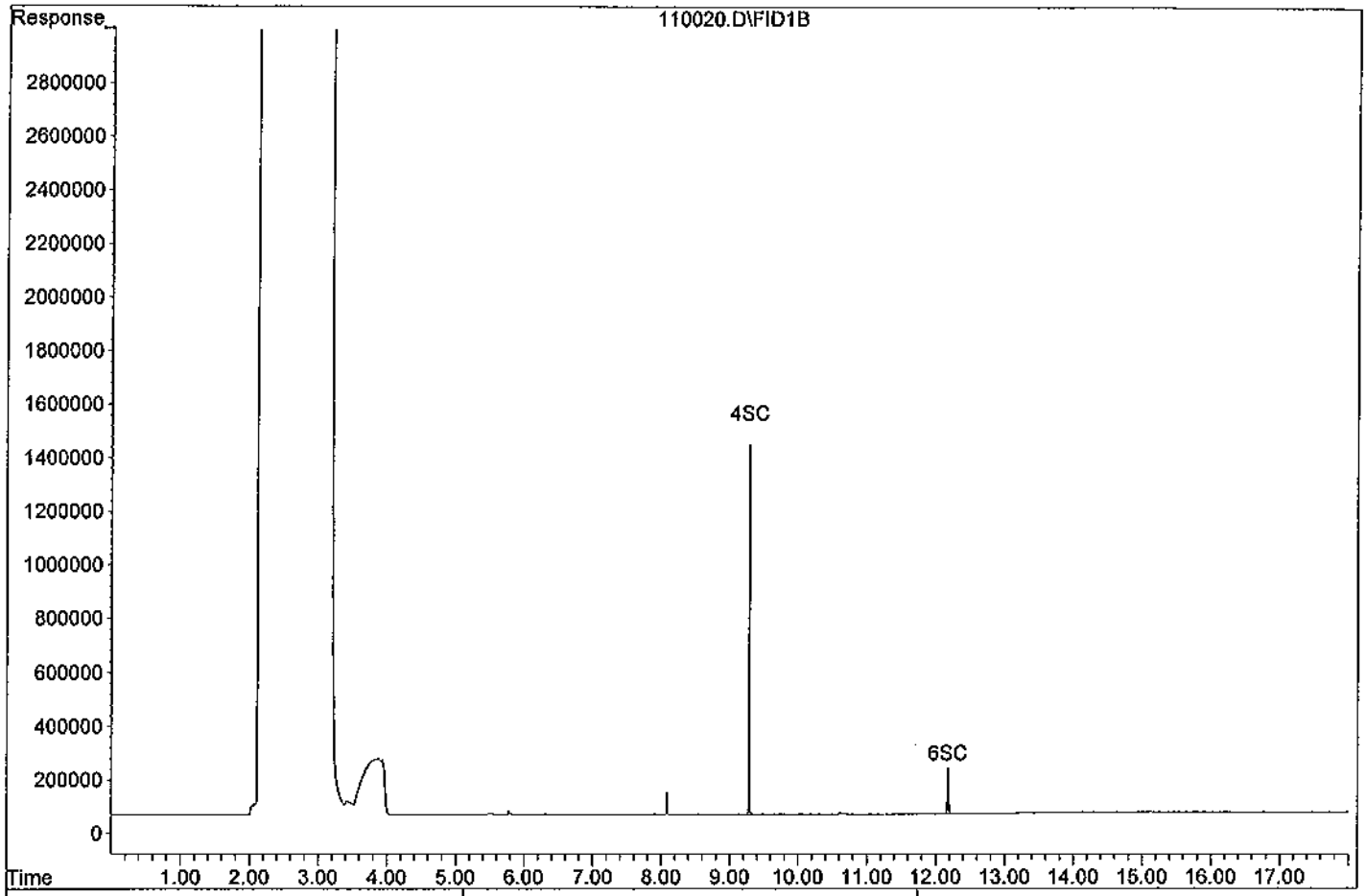
Data File : G:\APOLLO\DATA\120110\110020.D Vial: 20
Acq On : 1-10-12 22:45:24 Operator: LAC
Sample : THC SURR 400/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

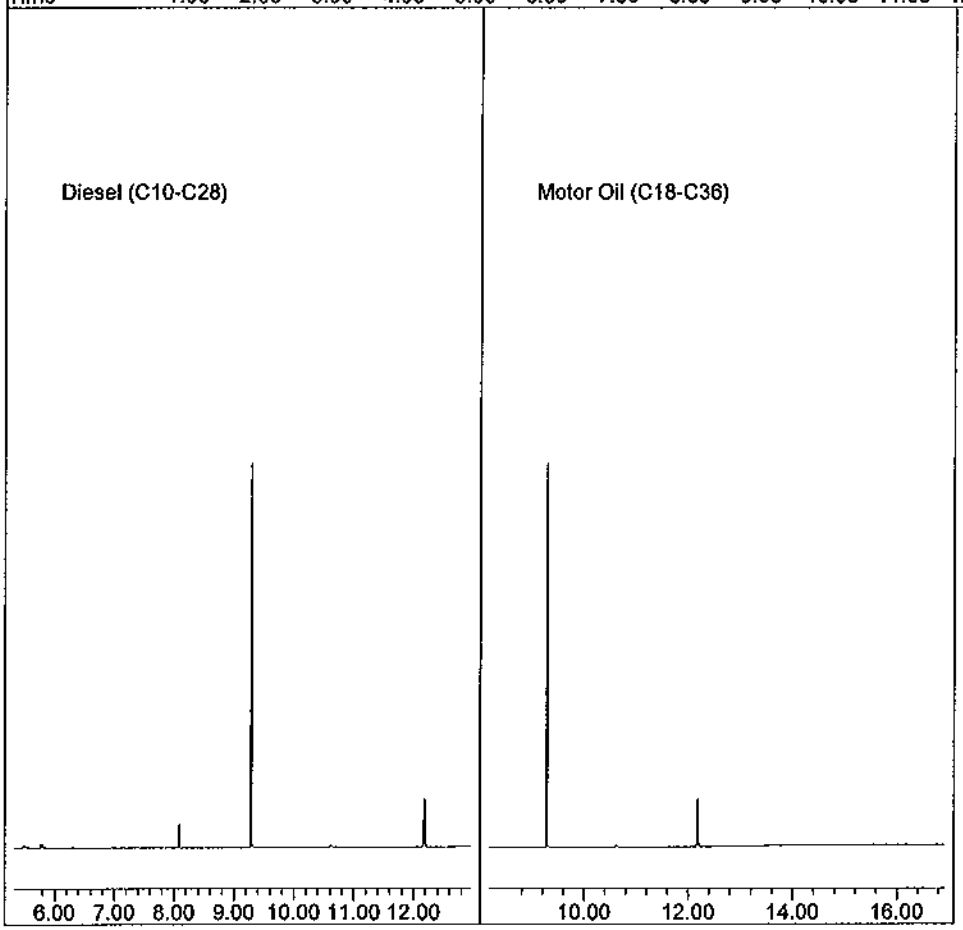
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.28	8815617	20.004	ppb
Surrogate Spike 30.000	Recovery =		66.68%	
6) SC Octacosane(S)	12.18	2243696	22.288	ppb
Surrogate Spike 30.000	Recovery =		74.29%	
Target Compounds				

Data File: G:\APOLLO\DATA\120110\110020.D
Sample : THC SURR 400/1000





Quantitation Report (Not Reviewed)

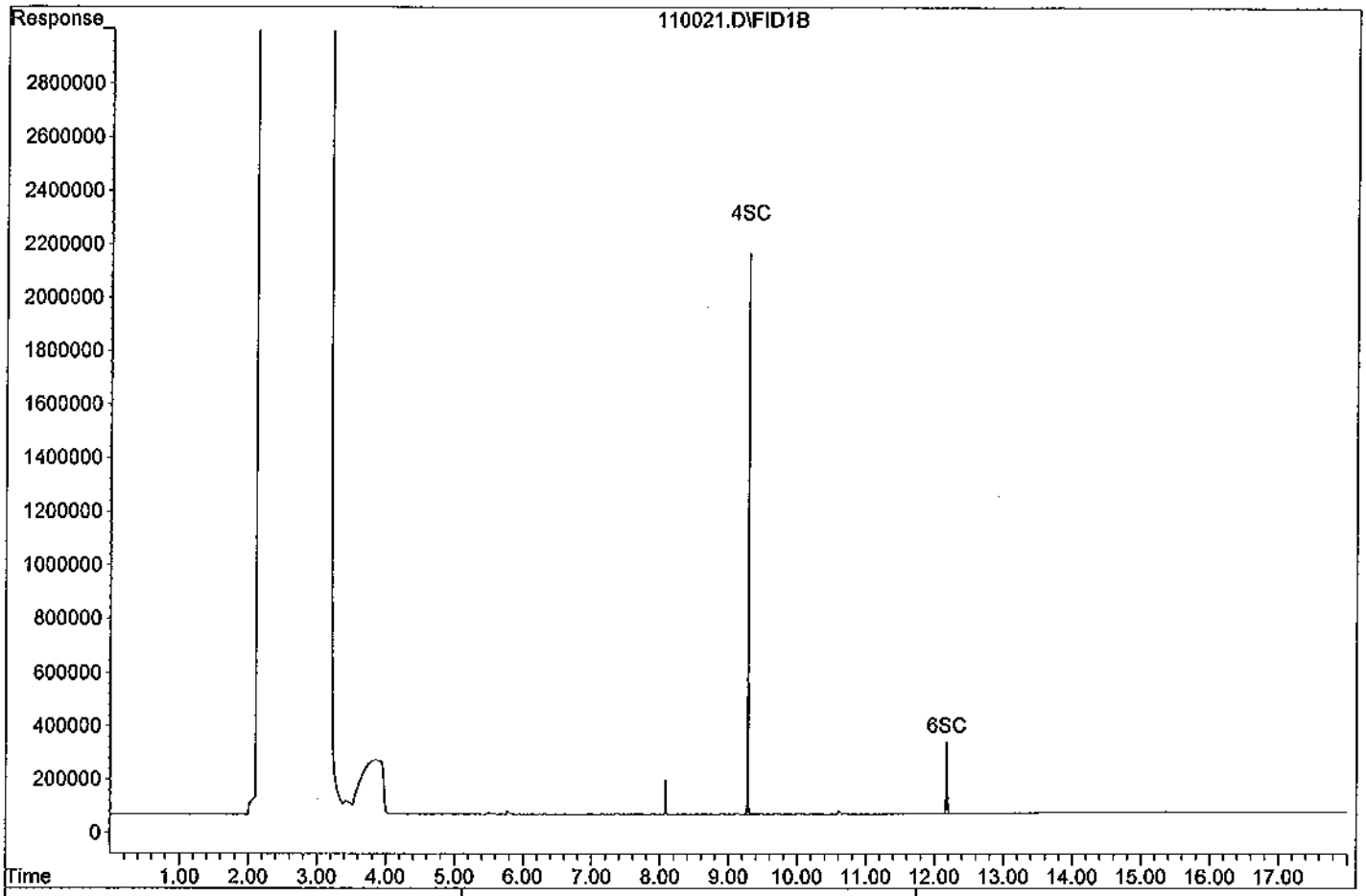
Data File : G:\APOLLO\DATA\120110\110021.D Vial: 21
Acq On : 1-10-12 23:08:42 Operator: LAC
Sample : THC SURR 600/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

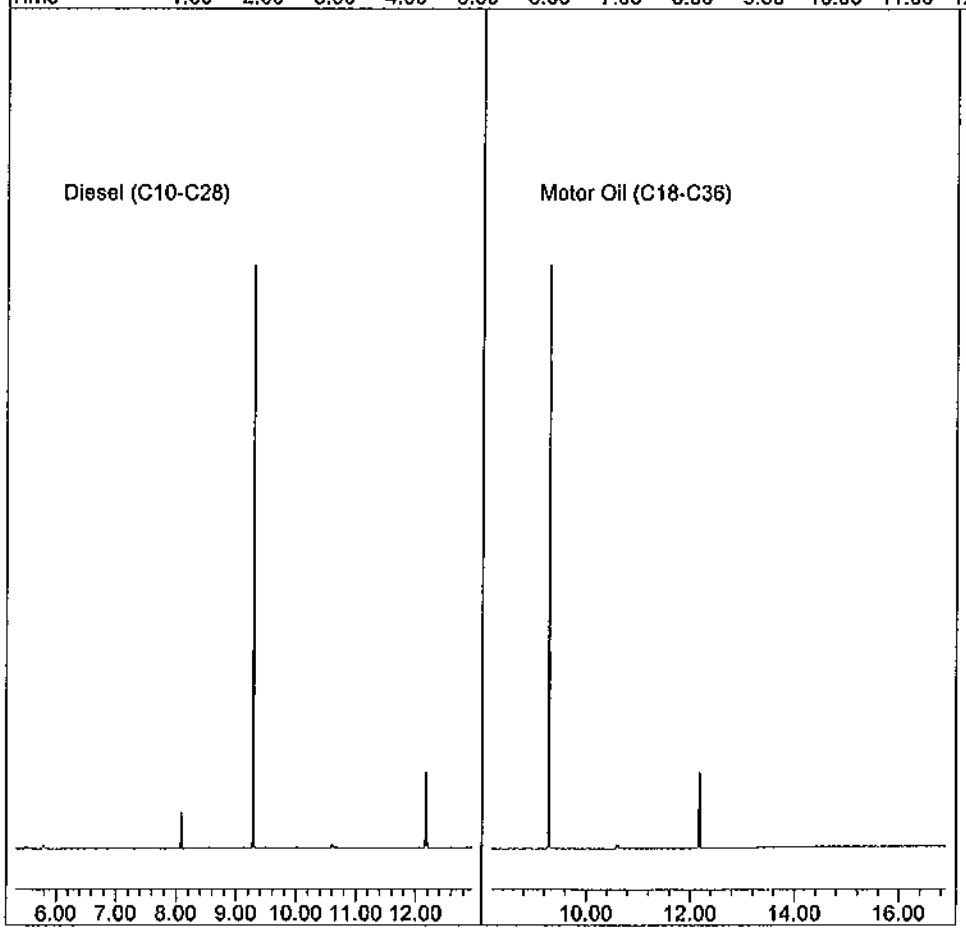
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.28	13462582	30.549	ppb
Surrogate Spike 30.000		Recovery =	101.83%	
6) SC Octacosane(S)	12.18	3390923	33.684	ppb
Surrogate Spike 30.000		Recovery =	112.28%	
Target Compounds				

Data File: G:\APOLLO\DATA\120110\110021.D
Sample : THC SURR 600/1000





Quantitation Report (Not Reviewed)

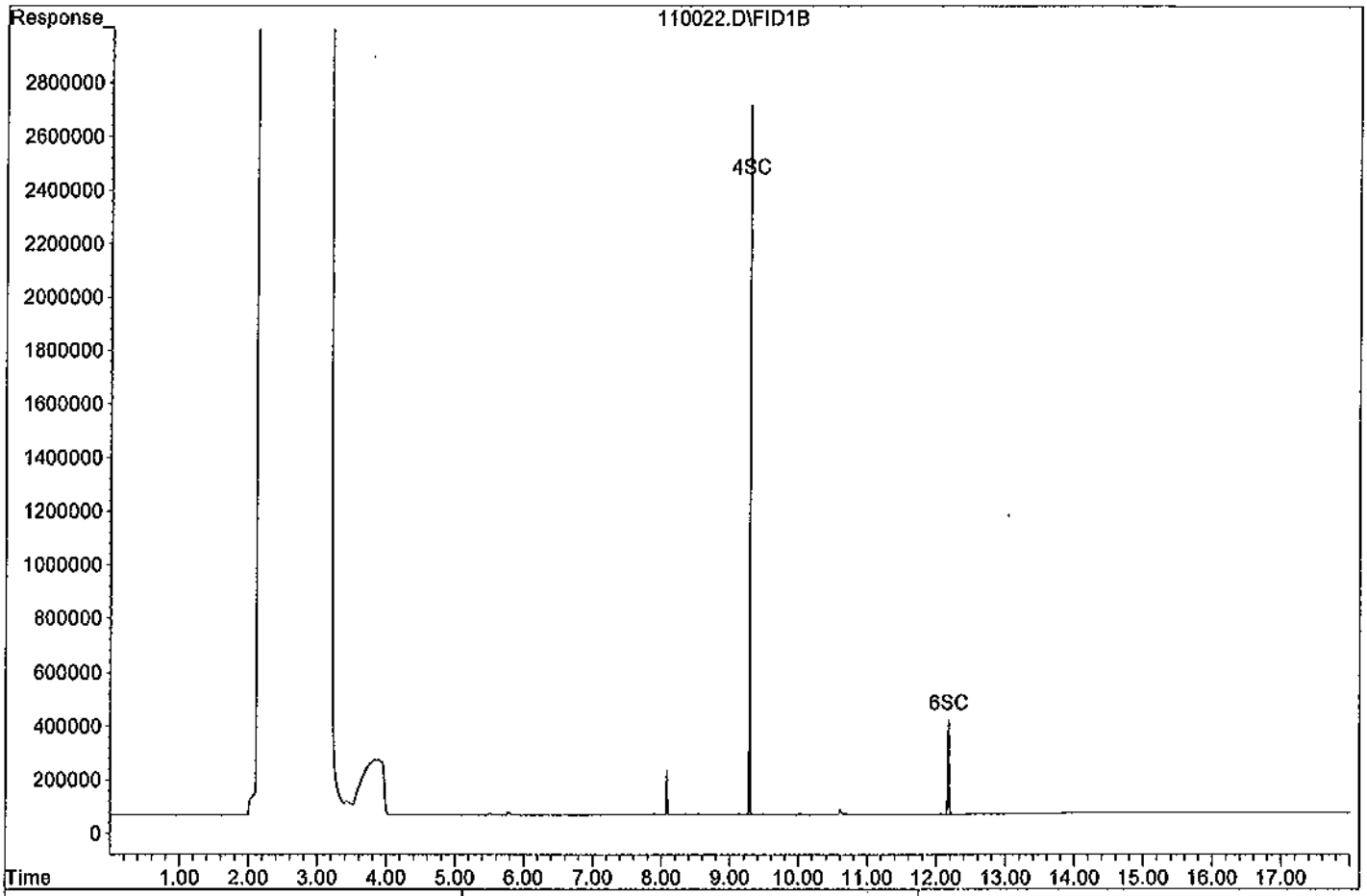
Data File : G:\APOLLO\DATA\120110\110022.D Vial: 22
Acq On : 1-10-12 23:32:00 Operator: LAC
Sample : THC SURR 800/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

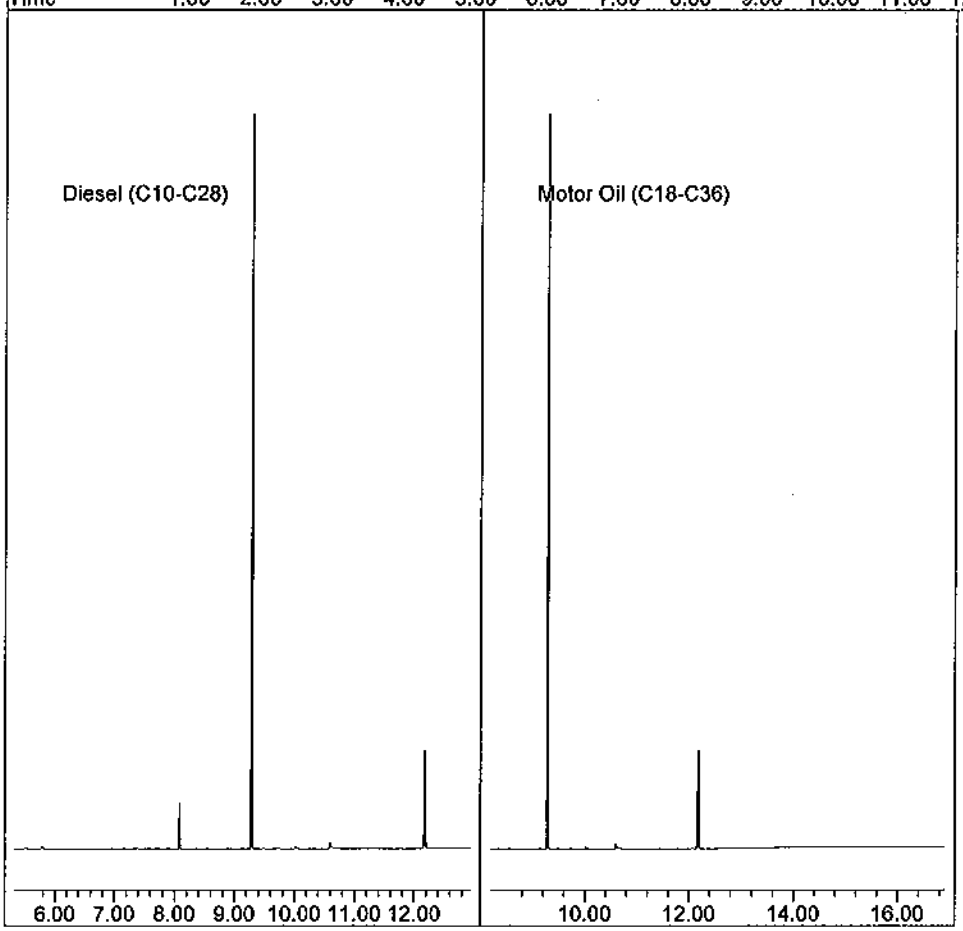
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.28	17618806	39.981	ppb
Surrogate Spike 30.000		Recovery =	133.27%	
6) SC Octacosane(S)	12.18	4532852	45.028	ppb
Surrogate Spike 30.000		Recovery =	150.09%	
Target Compounds				

Data File: G:\APOLLO\DATA\120110\110022.D
Sample : THC SURR 800/1000





Quantitation Report (Not Reviewed)

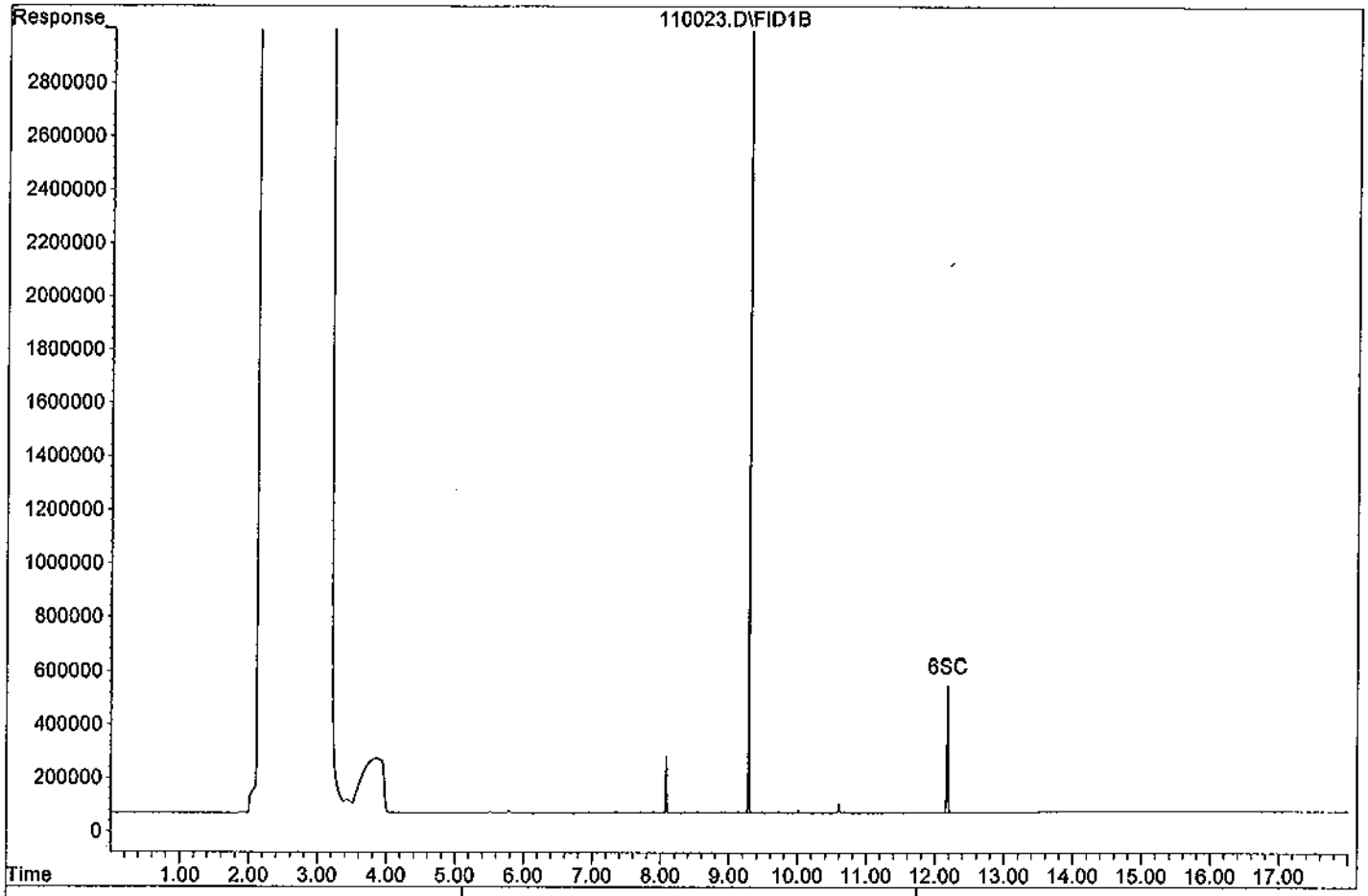
Data File : G:\APOLLO\DATA\120110\110023.D Vial: 23
Acq On : 1-10-12 23:55:18 Operator: LAC
Sample : THC SURR 1000/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:25 2012 Quant Results File: TPH110.RES

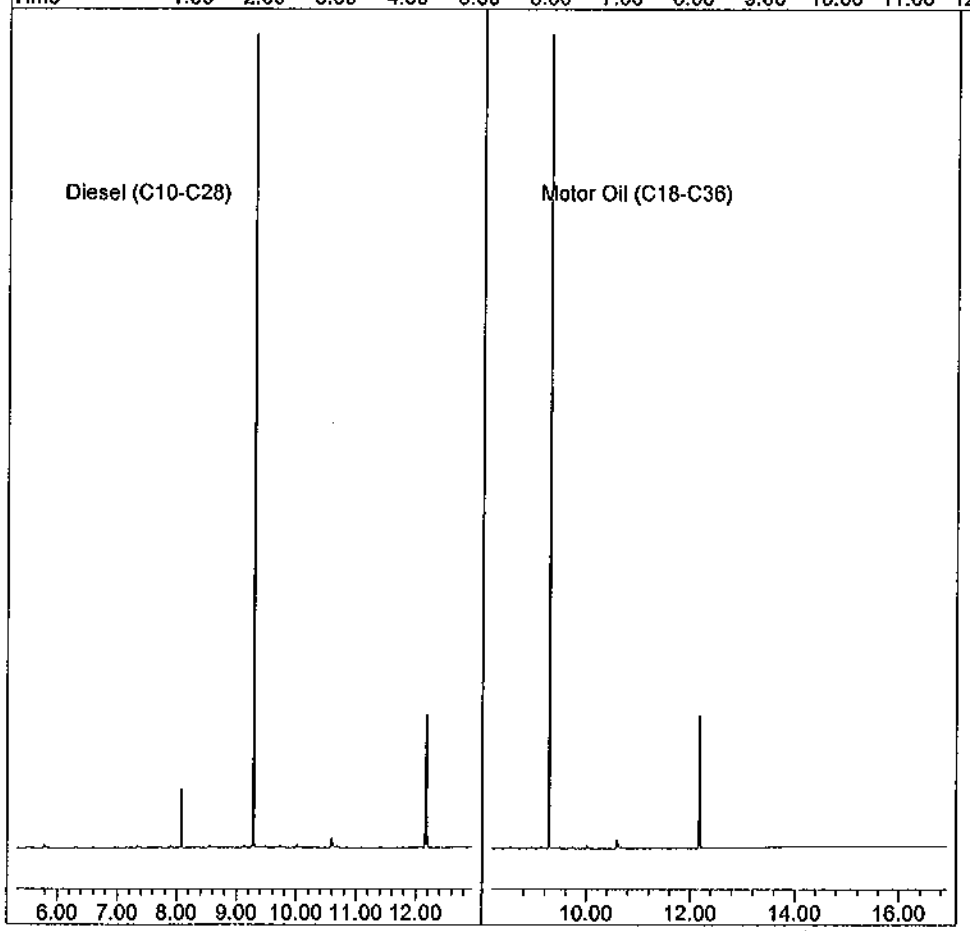
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.28	22873430	51.905	ppb
Surrogate Spike 30.000		Recovery =	173.02%	
6) SC Octacosane(S)	12.18	5915647	58.764	ppb
Surrogate Spike 30.000		Recovery =	195.88%	
Target Compounds				

Data File: G:\APOLLO\DATA\120110\110023.D
Sample : THC SURR 1000/1000





TPH Extractables
TPH110

Form 7

Second Source Calibration

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

SDG No: 66826
Date Analyzed: 01/10/12
Instrument: Apollo
Initial Cal. Date: 01/10/12
Data File: 110017.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	202470	176945	13	HATML	3.2
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			13.0		

Quantitation Report (Not Reviewed)

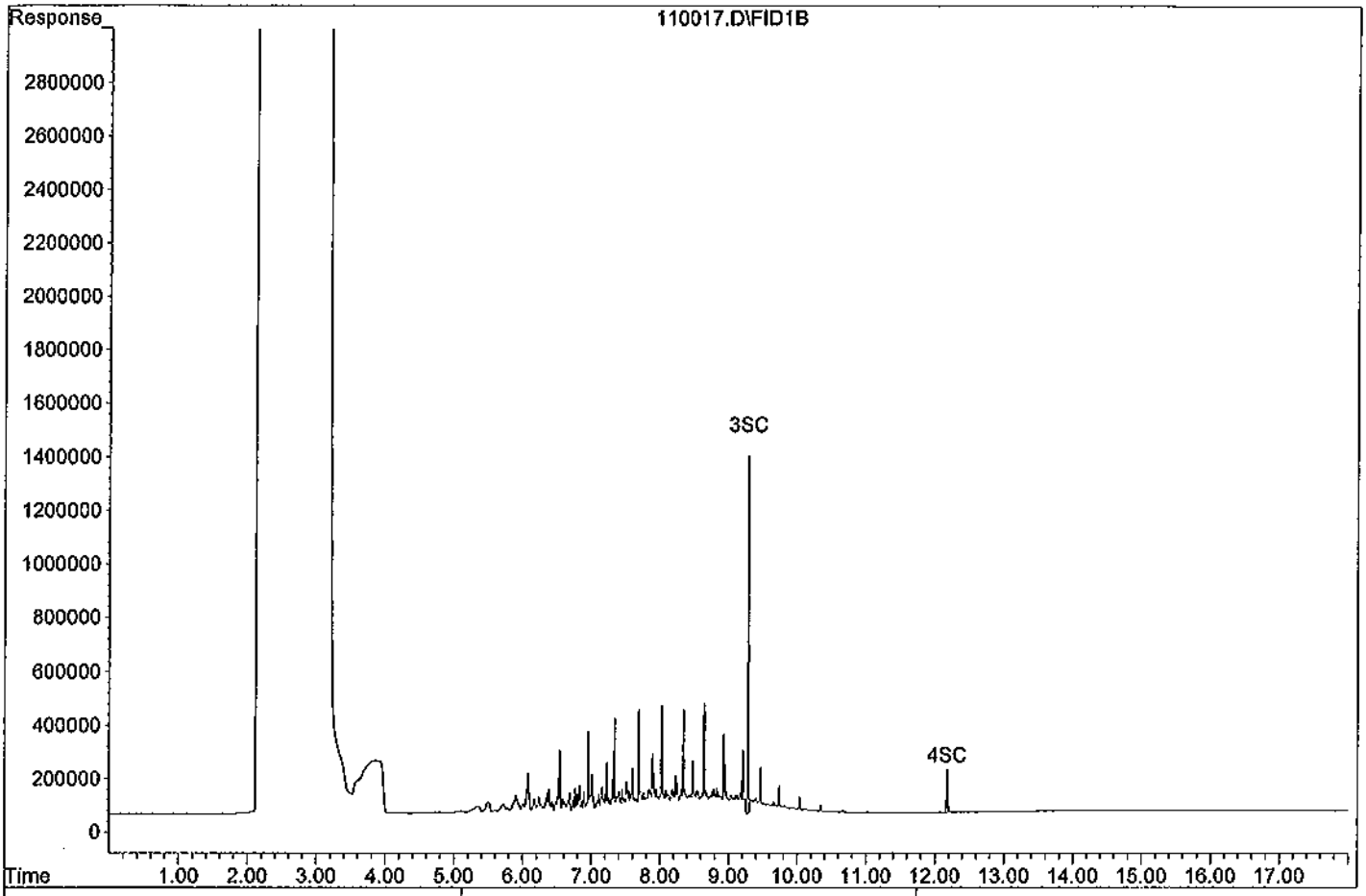
Data File : G:\APOLLO\DATA\120110\110017.D Vial: 17
Acq On : 1-10-12 21:35:15 Operator: LAC
Sample : DIESEL 2ND SRC 400/1000 1/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 26 9:31 2012 Quant Results File: TPH110.RES

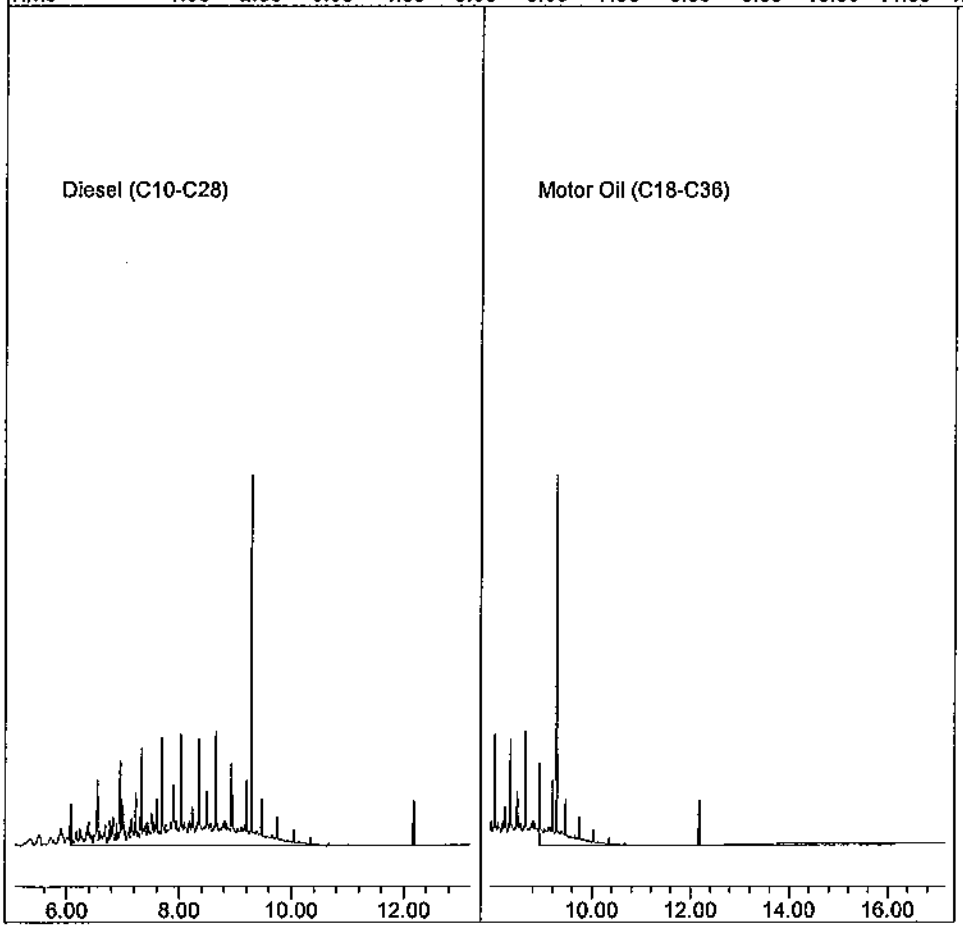
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.28	9415492	21.366 ppb
Surrogate Spike 30.000	Recovery =		71.22%
4) SC Octacosane(S)	12.18	2016343	17.621 ppb
Surrogate Spike 30.000	Recovery =		58.74%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	141555900	387.366 ppb
2) HBTM Motor Oil (C18-C36)	12.55	42974965	266.464 ppb

Data File: G:\APOLLO\DATA\120110\110017.D
Sample : DIESEL 2ND SRC 400/1000 1/10/12





TPH Extractables
TPH110

Form 7

Continuing Calibration

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

SDG No: 66826
Date Analyzed: 02/09/12
Instrument: Apollo
Initial Cal. Date: 01/10/12
Data File: 207078.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	202470	184926	8.7	HATML	1.2
2							
3							
4							
5							
6							
7							
8							
9							
10							
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29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			8.7		

Quantitation Report (Not Reviewed)

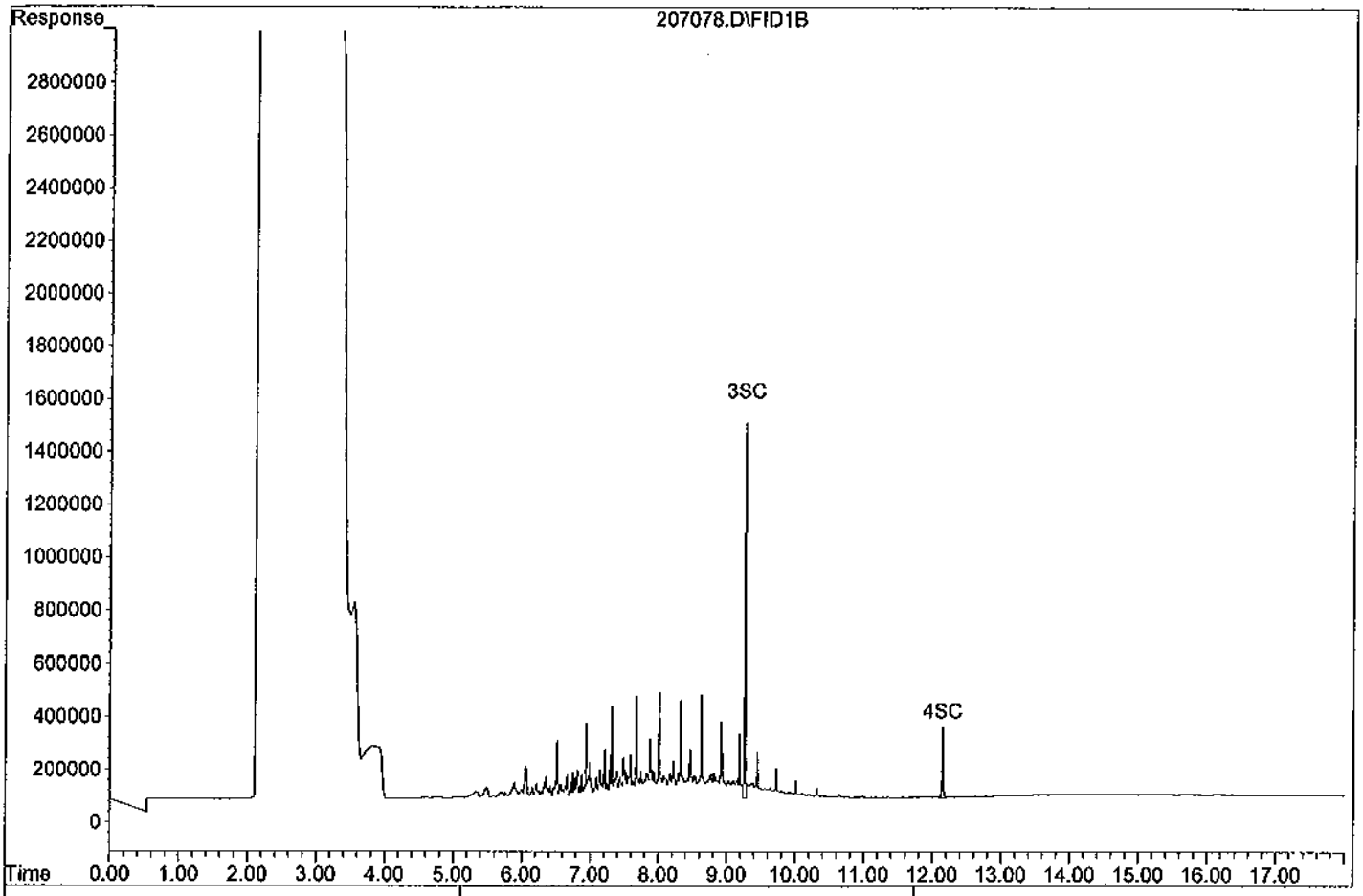
Data File : G:\APOLLO\DATA\120207\207078.D Vial: 78
Acq On : 2-9-12 18:24:49 Operator: LAC
Sample : DIESEL 400/1000 2/7/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 10 16:11 2012 Quant Results File: TPH110.RES

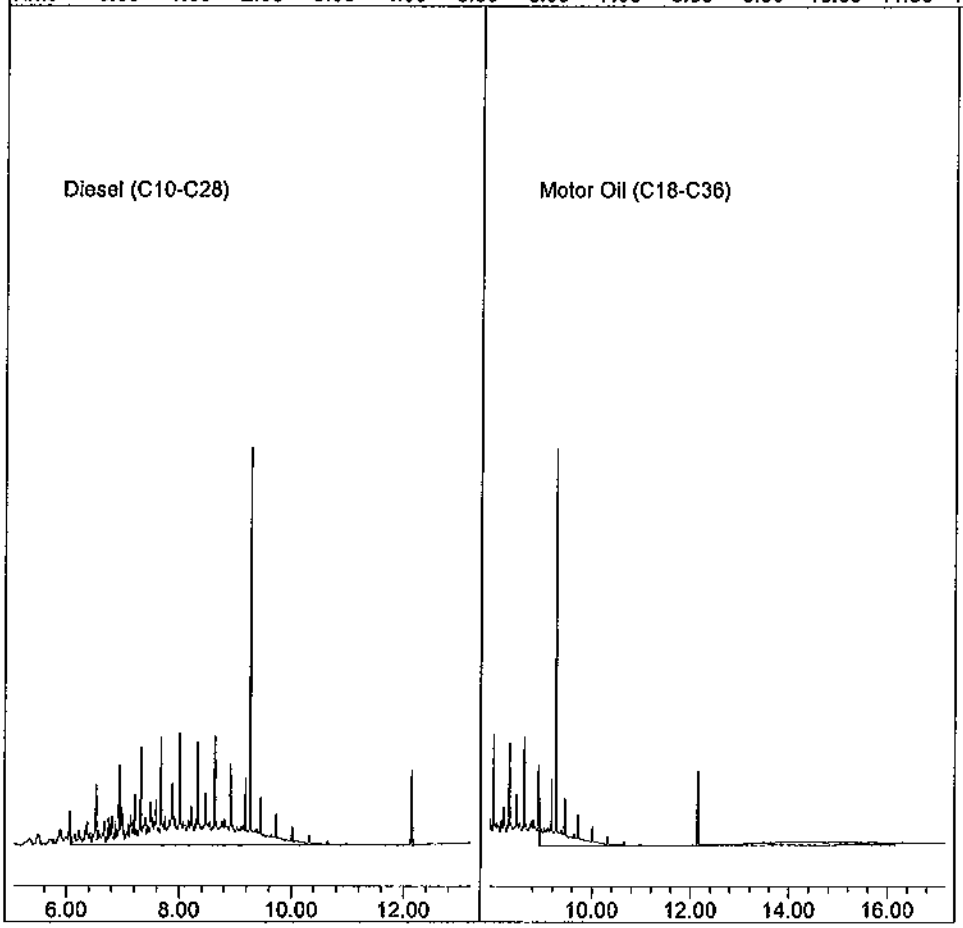
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	10165531	23.068 ppb
Surrogate Spike 30.000	Recovery =		76.89%
4) SC Octacosane(S)	12.15	3517566	30.741 ppb
Surrogate Spike 30.000	Recovery =		102.47%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	147940592	404.917 ppb
2) HBTM Motor Oil (C18-C36)	12.55	46916651	290.905 ppb

Data File: G:\APOLLO\DATA\120207\207078.D
Sample : DIESEL 400/1000 2/7/12





TPH Extractables
TPH110

Form 7

Continuing Calibration

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

SDG No: 66826
Date Analyzed: 02/10/12
Instrument: Apollo
Initial Cal. Date: 01/10/12
Data File: 207093.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	202470	192176	5.1	HATML	5.2
2							
3							
4							
5							
6							
7							
8							
9							
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30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			5.1		

Quantitation Report (Not Reviewed)

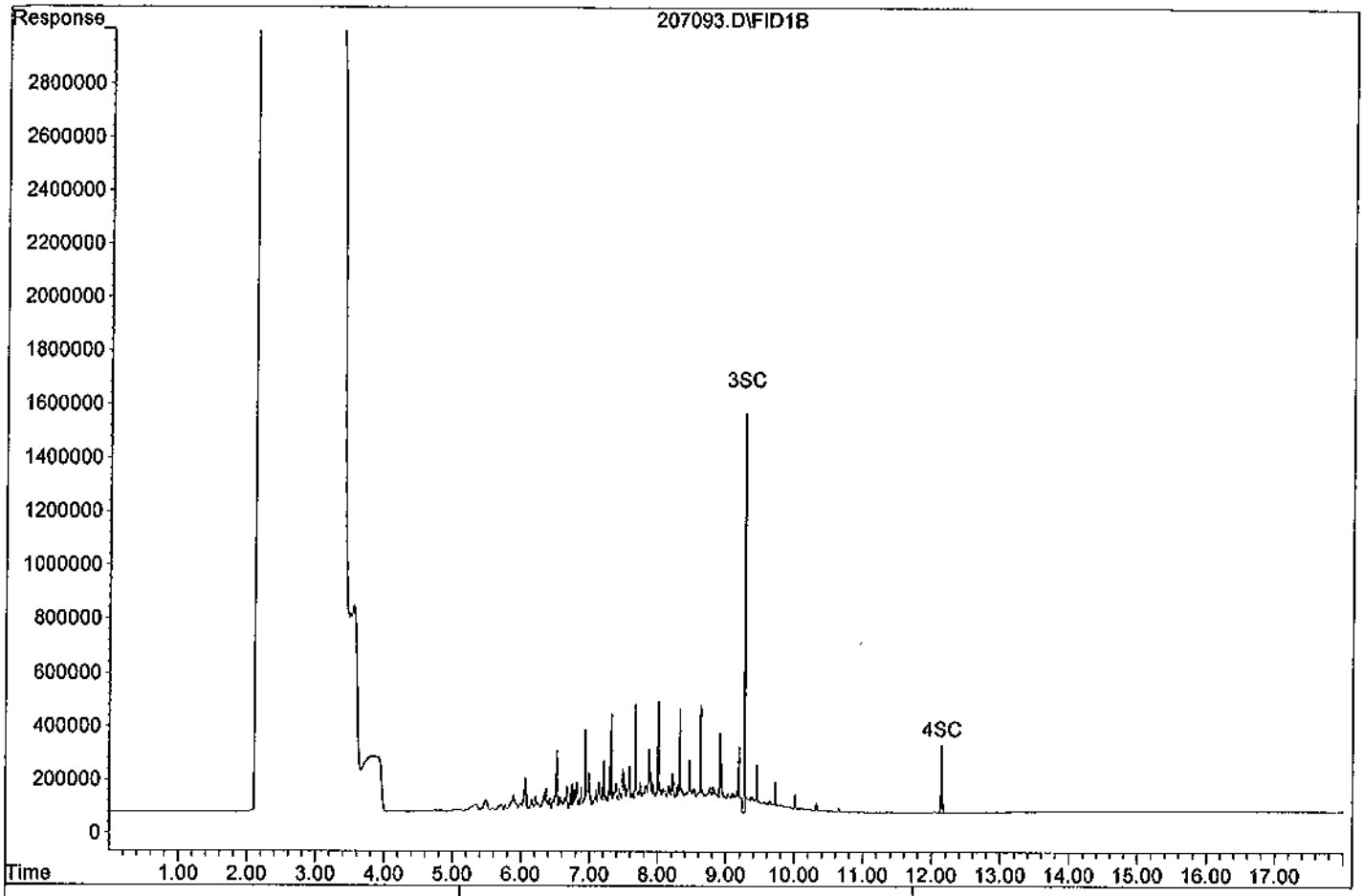
Data File : G:\APOLLO\DATA\120207\207093.D Vial: 93
Acq On : 2-10-12 0:20:04 Operator: LAC
Sample : DIESEL 400/1000 2/7/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 10 16:08 2012 Quant Results File: TPH110.RES

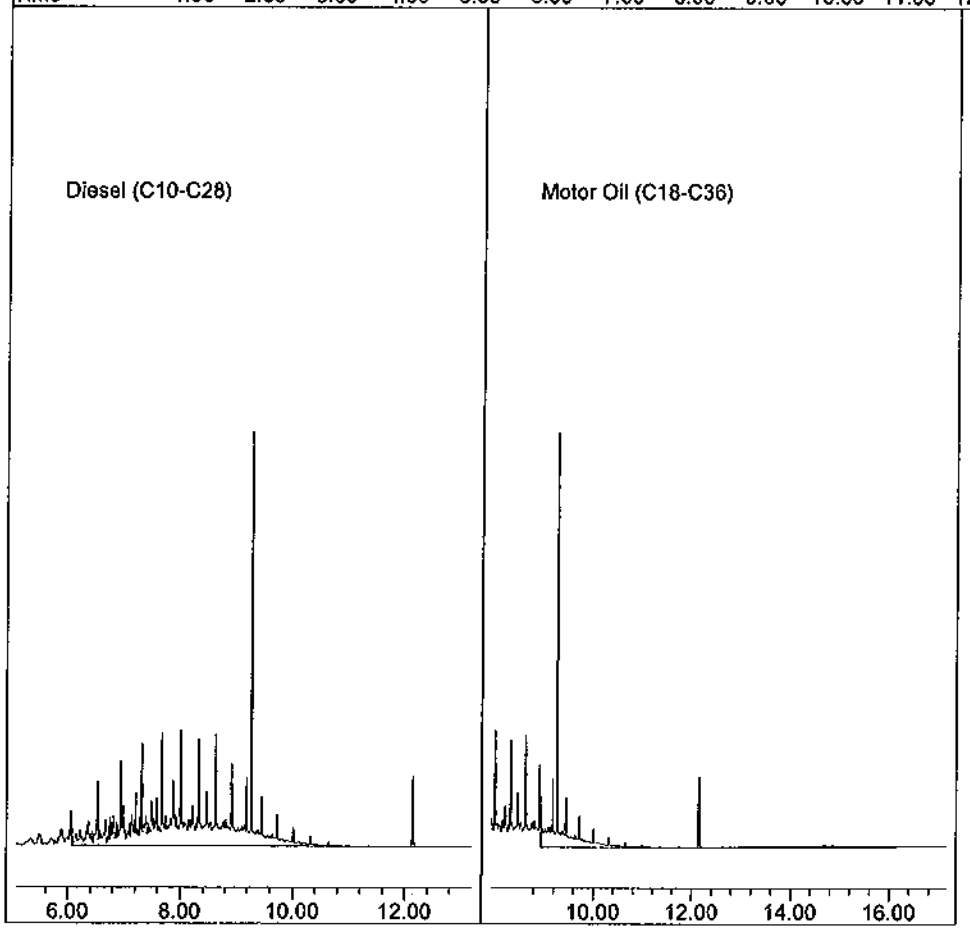
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.26	10377562	23.549 ppb
Surrogate Spike 30.000		Recovery =	78.50%
4) SC Octacosane(S)	12.15	3219336	28.135 ppb
Surrogate Spike 30.000		Recovery =	93.78%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	153740737	420.861 ppb
2) HBTM Motor Oil (C18-C36)	12.55	42407641	262.947 ppb

Data File: G:\APOLLO\DATA\120207\207093.D
Sample : DIESEL 400/1000 2/7/12





EPA 8015 Modified
Total Petroleum Hydrocarbons
Raw Data

Method Blank
TPH Diesel Water

Blank Name/QCG: **120201W-53807 - 163826**
Batch ID: #TPETD-120201A

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	02/01/12	02/09/12
BLANK	SURROGATE: OCTACOSANE (S)	133	28-142			%	02/01/12	02/09/12
BLANK	SURROGATE: ORTHO-TERPHEN	88.8	57-132			%	02/01/12	02/09/12

Quant Method: TPH110.M
Run #: 207080
Instrument: Apollo
Sequence: 120207
Initials: LA

GC SC-Blank-REG MDLs
Printed: 02/22/12 11:04:15 AM

Quantitation Report (QT Reviewed)

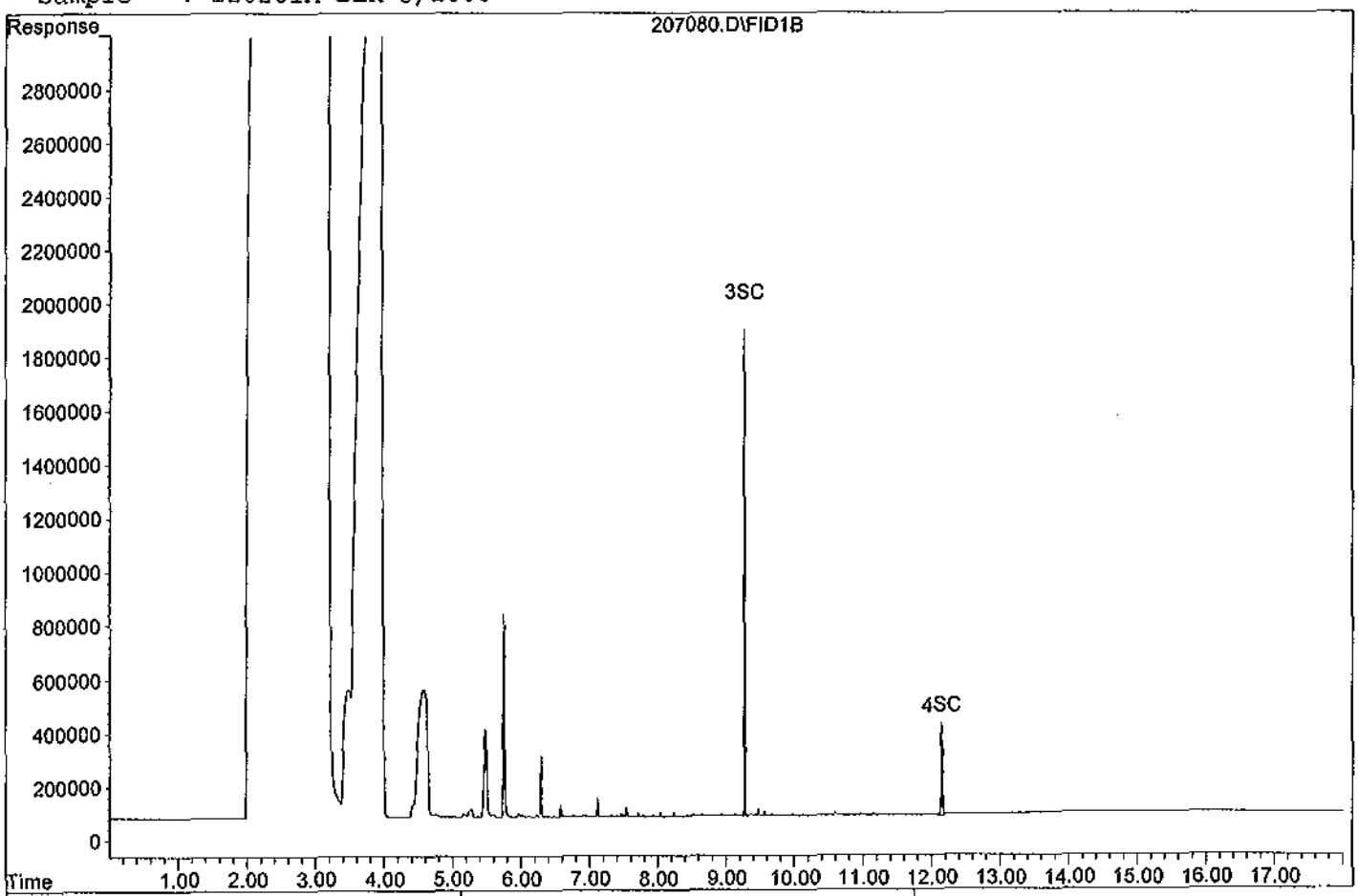
Data File : G:\APOLLO\DATA\120207\207080.D Vial: 80
Acq On : 2-9-12 19:12:47 Operator: LAC
Sample : 120201A BLK 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Feb 10 11:25 2012 Quant Results File: TPH110.RES

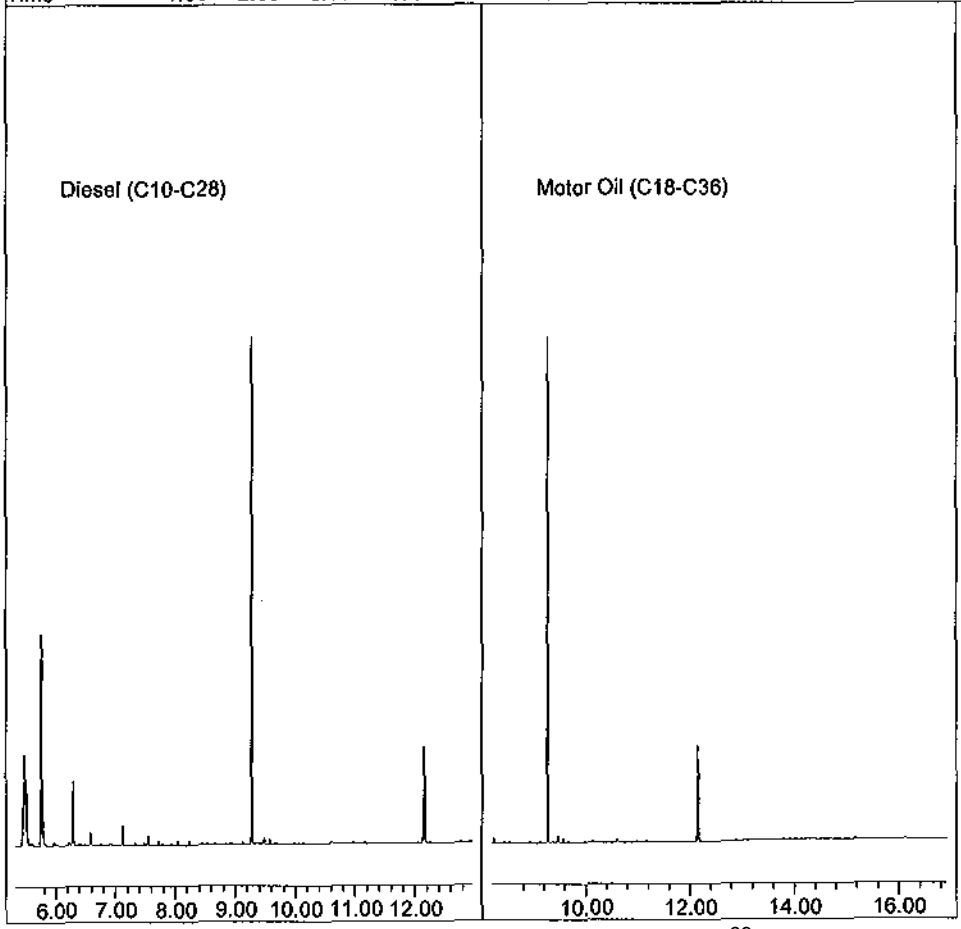
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	11740965	133.214 ppb
Surrogate Spike 150.000		Recovery =	88.81%
4) SC Octacosane(S)	12.14	4565118	199.480 ppb
Surrogate Spike 150.000		Recovery =	132.99%
Target Compounds			

Data File: G:\APOLLO\DATA\120207\207080.D
Sample : 120201A BLK 5/1000





Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **120201W-53807 LCS - 163826**
Batch ID: #TPETD-120201A

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	1710	85.5	61-143
SURROGATE: OCTACOSANE (S)	150	194	129	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	137	91.3	57-132

Comments:

Primary	SPK
Quant Method :	TPH110.M
Extraction Date :	02/01/12
Analysis Date :	02/09/12
Instrument :	Apollo
Run :	207081
Initials :	LA

Printed: 02/22/12 11:04:08 AM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120207\207081.D Vial: 81
Acq On : 2-9-12 19:36:40 Operator: LAC
Sample : 120201A LCS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Feb 10 11:29 2012 Quant Results File: TPH110.RES

Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

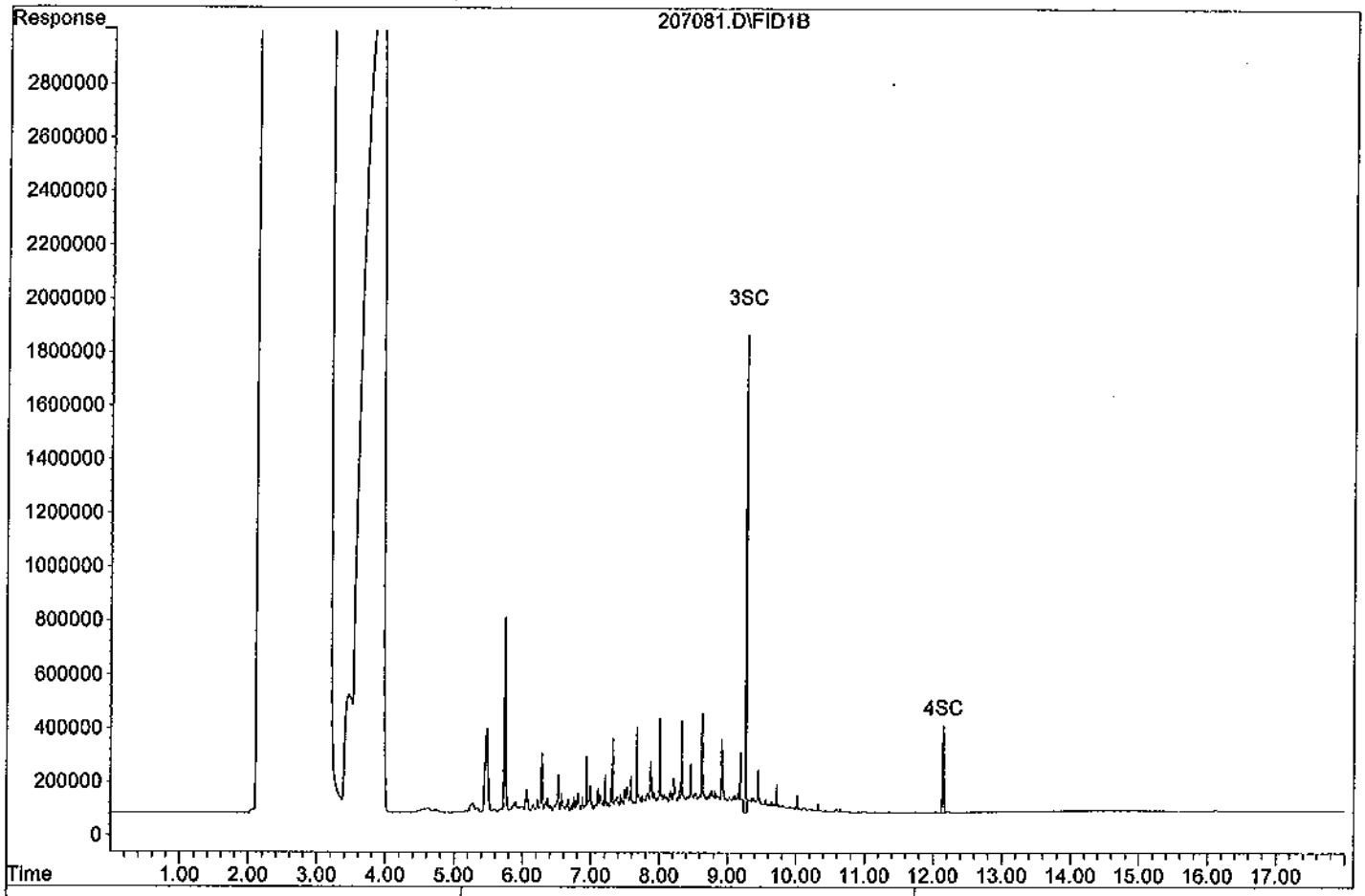
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

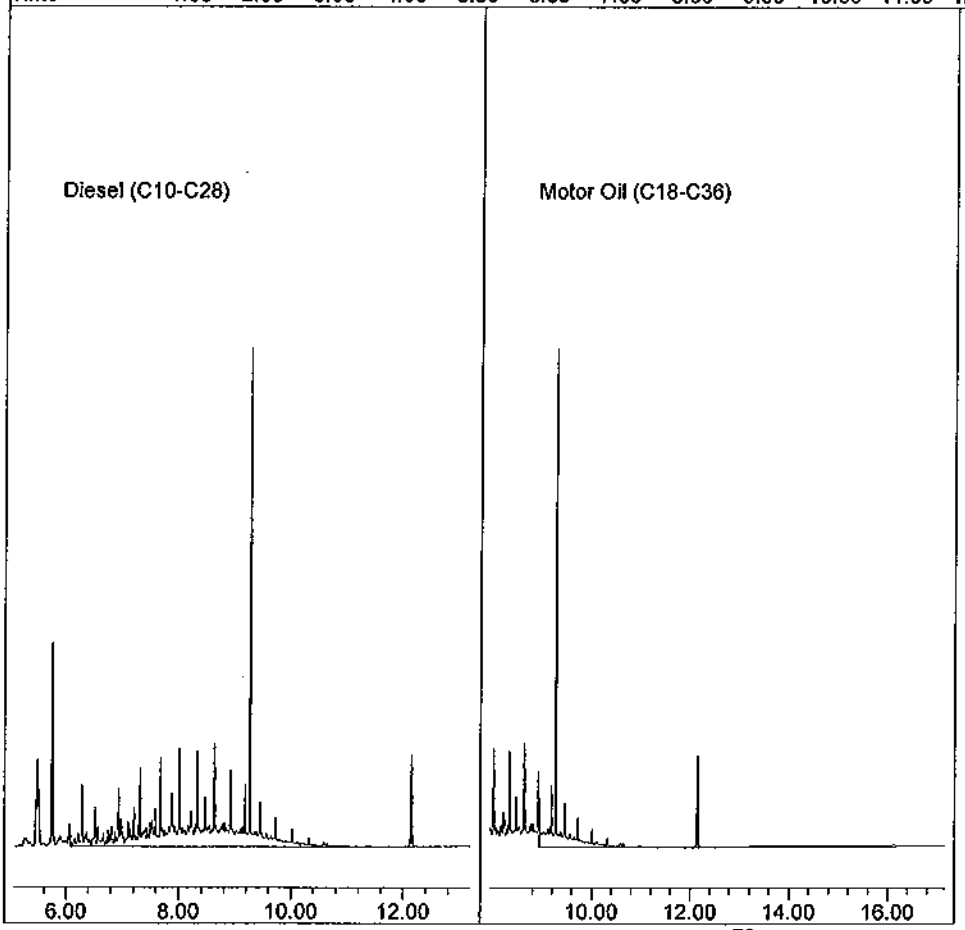
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.27	12107293	137.370 ppb LAC 2/22/12
Surrogate Spike 150.000		Recovery =	91.58%
4) SC Octacosane(S)	12.15	4428702	193.519 ppb
Surrogate Spike 150.000		Recovery =	129.01%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	125059543	1710.092 ppb
2) HBTM Motor Oil (C18-C36)	12.55	41381973	1282.936 ppb

Algorithm Check: $\frac{(12107293)(5)}{(220341)(2)} = 137.3699516$ LAC 2/22/12

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

Data File: G:\APOLLO\DATA\120207\207081.D
Sample : 120201A LCS-1 5/1000





Matrix Spike Recoveries

TPH Diesel Water

APPL ID: **120201W-53807 MS - 163826**
Batch ID: #TPETD-120201A
Sample ID: AY53807
Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL FUEL	2000	ND	1720	1650	86.0	82.5	61-143	4.2	30
SURROGATE: OCTACOSANE (S)	150	NA	180	189	120	126	28-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	NA	146	146	97.3	97.3	57-132		

Comments: _____

Primary	SPK	DUP
Quant Method :	TPH110.M	TPH110.M
Extraction Date :	02/01/12	02/01/12
Analysis Date :	02/09/12	02/09/12
Instrument :	Apollo	Apollo
Run :	207087	207088
Initials :	LA	

Printed: 02/22/12 11:04:03 AM
APPL MSD SCII

Quantitation Report (Not Reviewed)

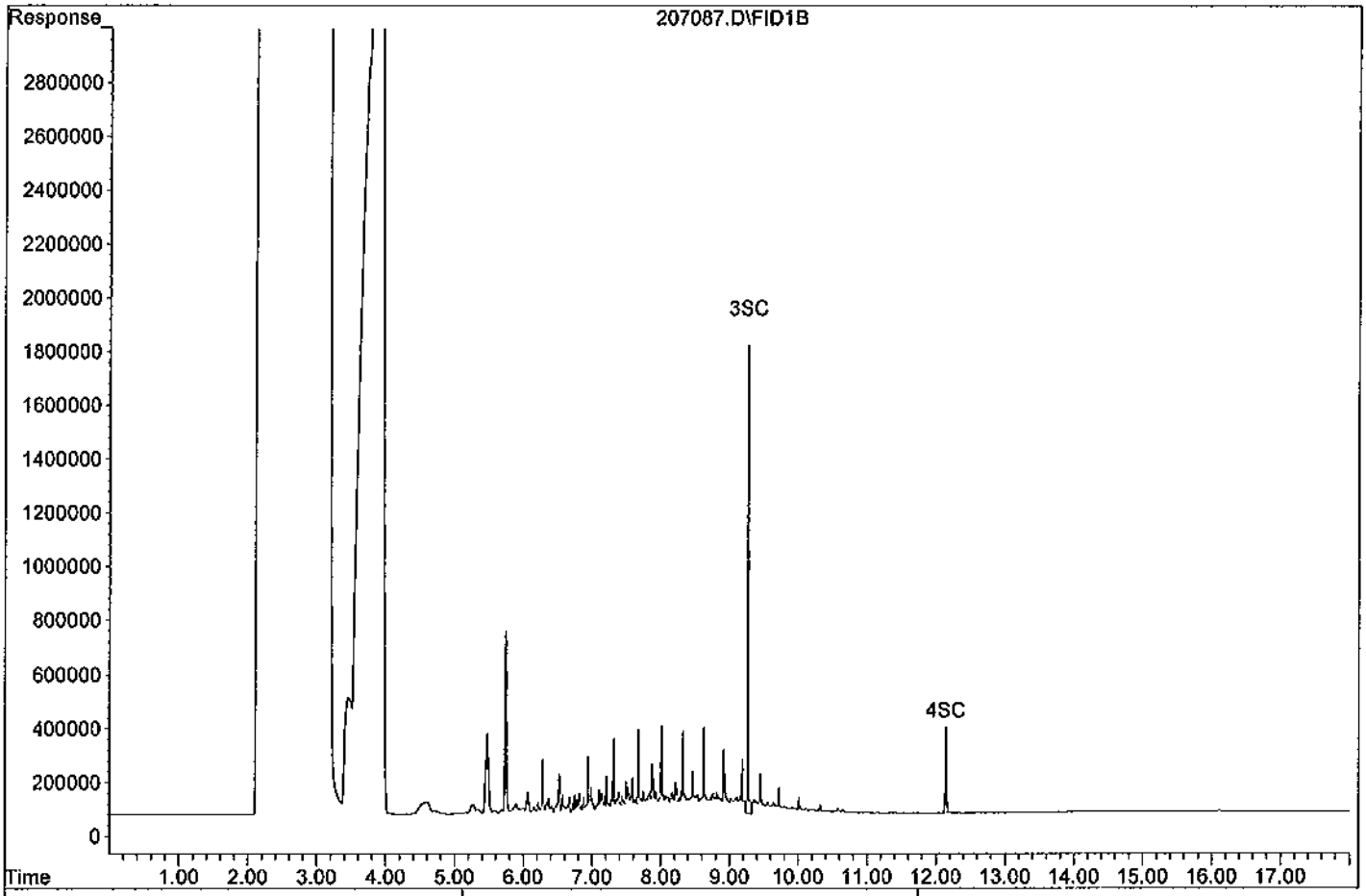
Data File : G:\APOLLO\DATA\120207\207087.D Vial: 87
Acq On : 2-9-12 21:58:42 Operator: LAC
Sample : AY53807W12 MS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Feb 10 11:22 2012 Quant Results File: TPH110.RES

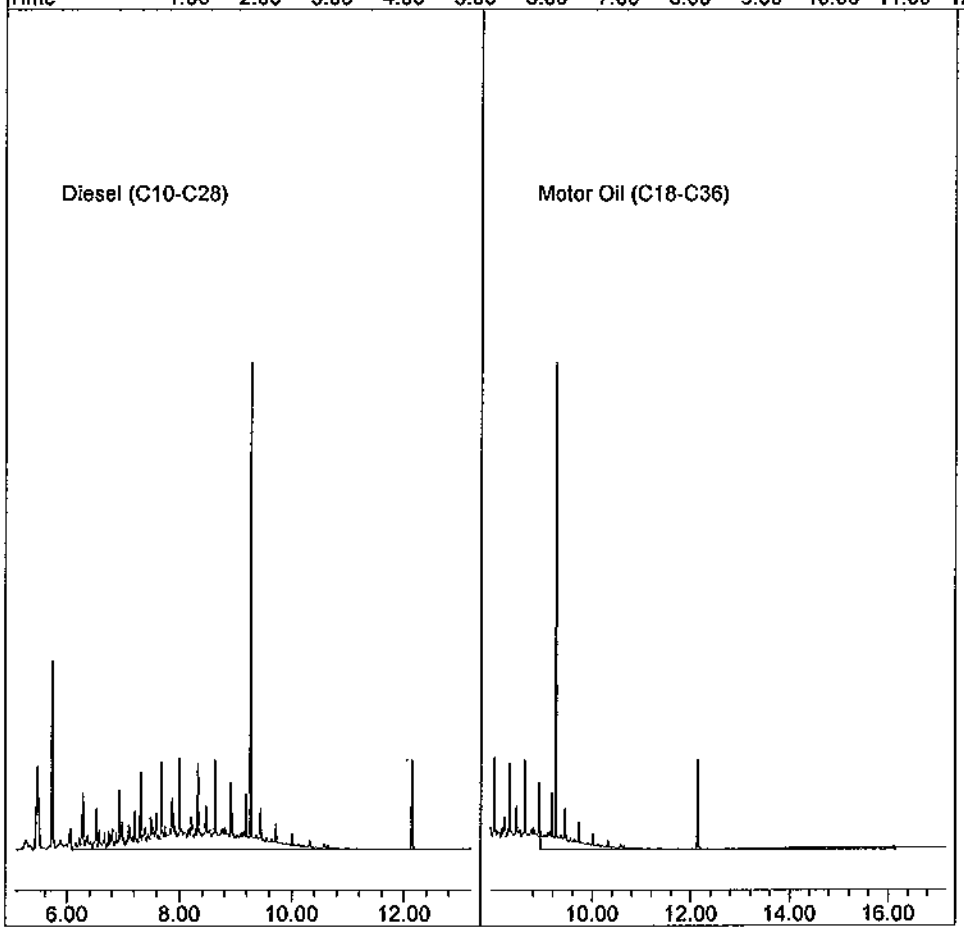
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.26	12882471	146.165 ppb
Surrogate Spike 150.000		Recovery =	97.44%
4) SC Octacosane(S)	12.14	4121213	180.082 ppb
Surrogate Spike 150.000		Recovery =	120.05%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	125853751	1721.008 ppb
2) HBTM Motor Oil (C18-C36)	12.55	38799218	1202.865 ppb

Data File: G:\APOLLO\DATA\120207\207087.D
Sample : AY53807W12 MS-1 5/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120207\207088.D Vial: 88
Acq On : 2-9-12 22:22:18 Operator: LAC
Sample : AY53807W14 MSD-1 5/1020 Inst : Apollo
Misc : water Multiplr: 4.90
IntFile : events.e
Quant Time: Feb 10 11:22 2012 Quant Results File: TPH110.RES

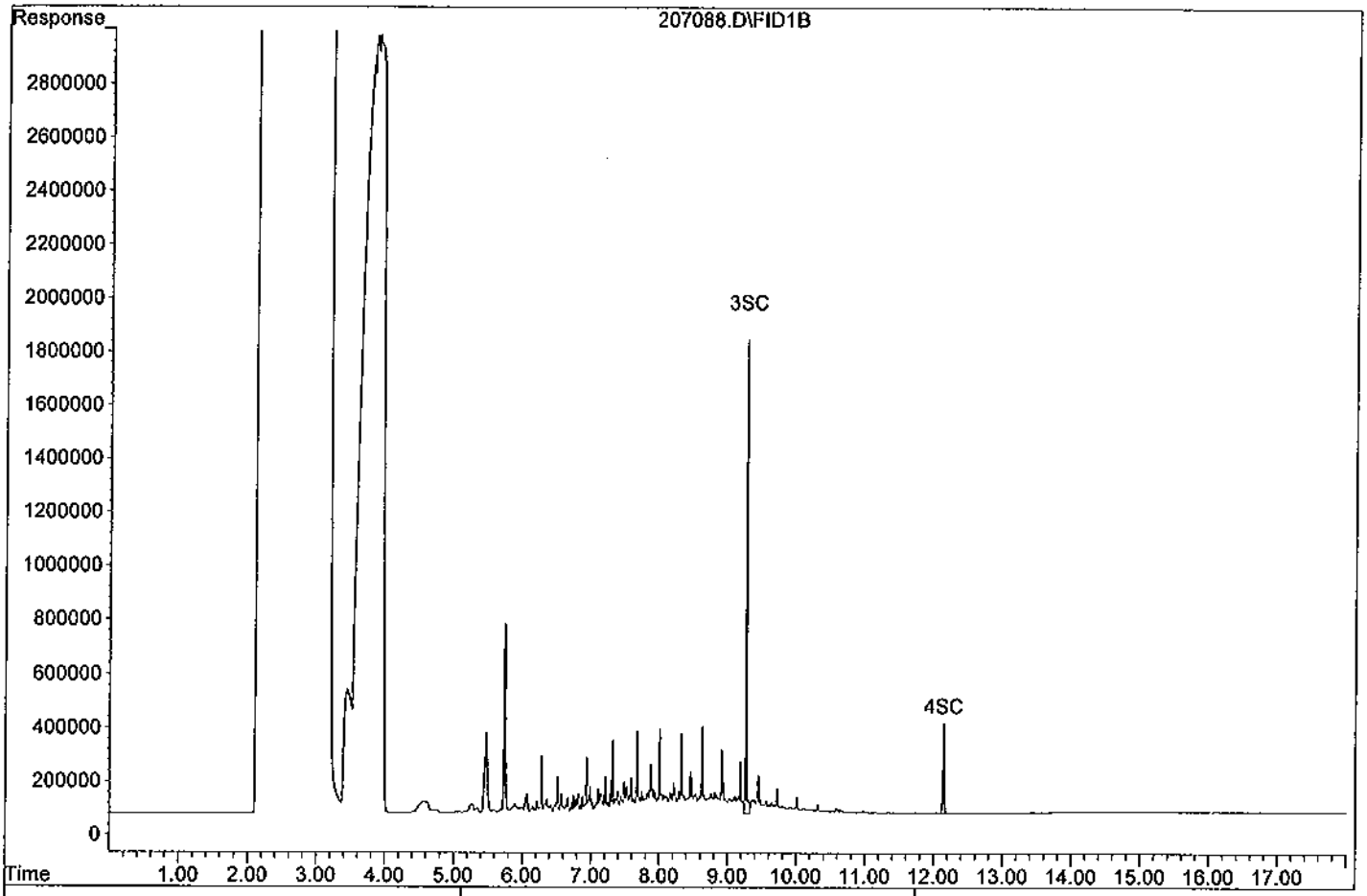
Method : G:\APOLLO\DATA\120110\TPH110.M (Chemstation Integrator)
Title : Diesel
Last Update : Fri Feb 10 16:08:13 2012
Response via : Multiple Level Calibration

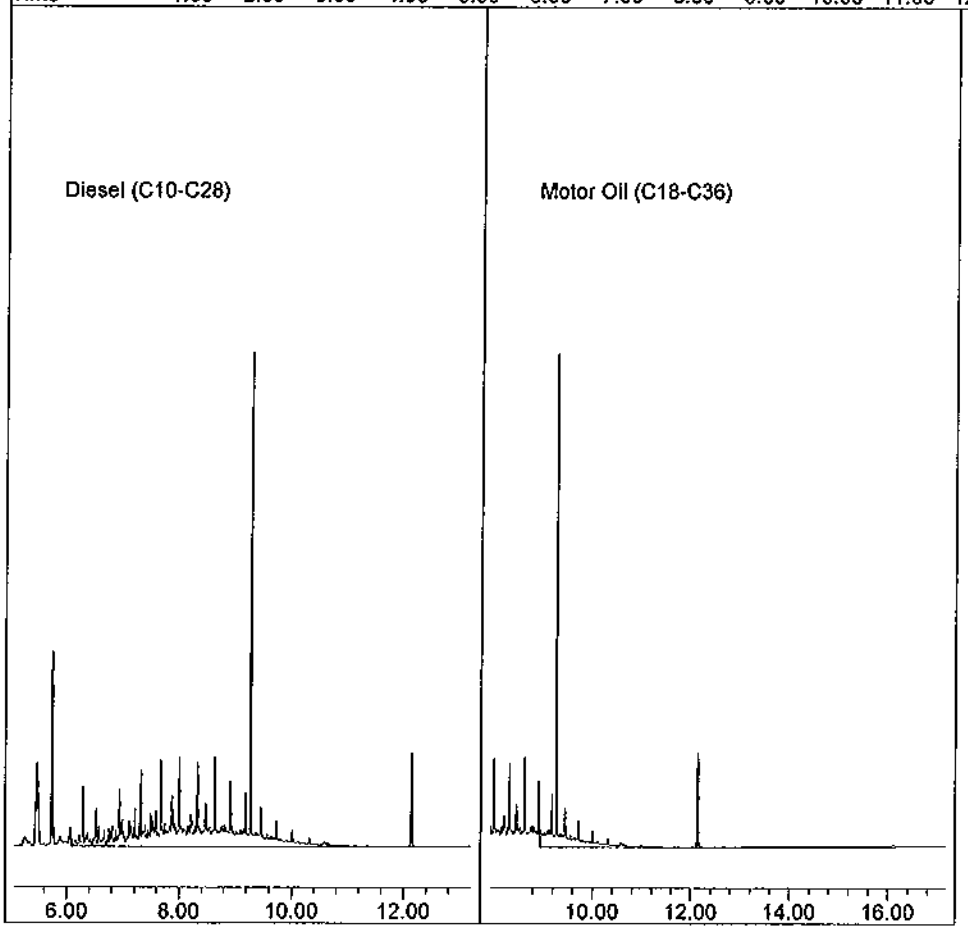
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SC Ortho-Terphenyl(S)	9.26	13150367	146.279 ppb
Surrogate Spike 147.059		Recovery =	99.47%
4) SC Octacosane(S)	12.14	4416087	189.184 ppb
Surrogate Spike 147.059		Recovery =	128.65%
Target Compounds			
1) HATM Diesel (C10-C28)	9.14	123236174	1651.990 ppb
2) HBTM Motor Oil (C18-C36)	12.55	38125272	1158.795 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\120207\207088.D
Sample : AY53807W14 MSD-1 5/1020





STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT#	DATE / INITIALS
		DIESEL STANDARD					
DIESEL FUEL #2	50,000 ug/ml	D2SI	600 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 #11598-83 Lot # 167768 Storage 5-10 Degrees C Expiry 2/15/15 Soln: Methylene Chloride Made in the USA 4/26/12						
	Diesel Fuel #2 Composite OP: 10/26/11 Lot #: 167768 - 29406 EX: 10/26/12 Rec: 8/26/11 MFR exp. 02/15/15						
TERPHENYL TRICOSANE	600 ug/ml	D2SI	4170 ml		50 ug/ml		
	CAT: 110316-05 LOT: 176405 - 29338 OP: 10/10/11 EX: 10/10/12						
		MOTOR OIL STANDARD					
MOTOR OIL	50,000 ug/ml	D2SI	1000 ml	50 ml	1000 ug/ml	MC # 51204	10/26/11 EX: 4/26/12
	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 - 28618 Rec: 4/14/11 MFR exp. 07/23/13 4/26/12						

		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:	10/28/2011	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 / INITIALS
				PCB SOIL SPIKE				
AR 1260	1000ng/mL	0251		1250mL	25mL	50ng/mL	ACETONE	
AR 1016	CAT: 130011-03						# 081111B	11/10/11
	LOT: 163607-27215							EX: 2/10/12
	OP: 11/10/11							
	EX: 11/10/12							
	AND							
	LOT: 152374-27210							
	OP: 3/2/11							
	EX: 3/2/12							
				PCB WATER SPIKE				
AR1016	1000ng/mL	0251		125mL	25mL	5ng/mL	ACETONE	
AR1260	CAT: 130011-03						# 081111B	11/10/11
	LOT: 163607-27214							EX: 2/10/12
	OP: 8/2/11							
	EX: 8/2/12							
				HERB 100/1000 (LVL 3) CCV				
VARIOUS	VARIOUS	HERB STD.		100mL	1mL	100ng/L	MTBE	
SEE PG 075	PREP: 10/11/11						# 5D/12	11/10/11
	EX: 4/11/12							EX: 4/11/12
				THC SURROGATE CAL. STD.				
TERPANYL	1000ng/mL	0251		834mL	10mL	50ng/mL	MC	
TRICOSANE	CAT: 110316-05						# 51204	11/15/11
	LOT: 176405-29342							EX: 5/15/12
	OP: 10/10/11							
	EX: 10/10/12							

LAC 11/15/11

THC SURROGATE CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50	176405	11/15/2011	5/15/2012	50	100	400	600	800	1000
MC		51204			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

LAC 11/15/11

EX 5/15/12

STANDARD 108	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE / INITIALS

DIESEL SPIKE

DIESEL FUEL #2	5000mg/L	O2SI	2000mL	5mL	2000mg/L	MC # 51204	12/2/11 EX: 3/2/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml — 811598-83 — Lot # 167768 — Storage ≤-10 Degrees C — Expiry 2/15/15 — Solv: Methylene Chloride — 12/2/11

Diesel Fuel #2 Composite Op. 12/2/11 Ex. 12/2/12
Lot #: 167768 - 29402
Rec: 8/26/11 MFR exp. 02/15/15

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml — 811598-83 — Lot # 167768 — Storage ≤-10 Degrees C — Expiry 2/15/15 — Solv: Methylene Chloride — 12/2/11

Diesel Fuel #2 Composite Op. 12/2/11 Ex. 12/2/12
Lot #: 167768 - 29403
Rec: 8/26/11 MFR exp. 02/15/15

MOTOR OIL SPIKE

MOTOR OIL	5000mg/L	O2SI	2000mL	5mL	2000mg/L	MC # 51204	12/2/11 EX: 3/2/12

Motor Oil Composite, 50,000 mg/L, 1 ml — 116590-02 — Lot # 171363 — Storage ≤-10 Degrees C — Expiry 4/9/14 — Solv: Methylene Chloride — 12/2/11

Motor oil composite Op. 12/2/11 Ex. 12/2/12
Lot #: 171363 - 28641
Rec: 4/20/11 MFR exp. 04/09/14

Motor Oil Composite, 50,000 mg/L, 1 ml — 116590-02 — Lot # 171363 — Storage ≤-10 Degrees C — Expiry 4/9/14 — Solv: Methylene Chloride — 12/2/11

Motor oil composite Op. 12/2/11 Ex. 12/2/12
Lot #: 171363 - 28640
Rec: 4/20/11 MFR exp. 04/09/14

OCL 3 (CCV)

See Pg. 0041 VARIOUS Analytes	10mg/L	OCL STOCK PREP: 8/19/11 EX: 2/23/12	25mL	25mL	0.100mg/L	HEXANE # D107113	12/2/11 EX: 2/23/12

TDX 3 (CCV)

TOXAPHENE	100mg/L	TDX STOCK PREP: 9/20/11 EX: 3/20/12	125mL	25mL	0.50mg/L	HEXANE # D107113	12/2/11 EX: 3/20/12

12/3/11

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
		10/26/11	04/26/12			51204

12/3/11 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
		10/26/11	04/26/12			51204

STANDARD 004

	INITIAL CONC	SOURCE	DATE	FINAL CONC	LOT #	DATE/ INITIALS

12/28/11

PREP DATE:	12/28/11					
OP 2ND SOURCE						
EXP:	04/27/12					
SUPPLIER	IO#	[µg/mL]	LOT #	DATE	EXP. DATE	µL
	OP 2ND SRC	5		12/02/11	04/27/12	500
VWR	HEXANE		010711A			500
					Final vol.	1000

12/28/11 EX: 11/27/12

PREP DATE:	12/28/11											
OPF CURVE												
EXP:	02/07/12			12/28/11		TA	1	2	3	4	5	6
SUPPLIER	IO#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL
	OPF STD	5		~~12/02/11~~	02/07/12	2	10	50	200	500	700	1000
	Hexane		010711A	12/28/11		998	990	950	800	500	300	NA
					Final vol.	1000	1000	1000	1000	1000	1000	1000

12/28/11 EX: 2/7/12

DIESEL SPIKE

DIESEL FUEL #2

50,000ng/mL O2SI 2000mL 50mL 2000ng/mL MC # 110510F 12/28/11 EX: 3/28/12

Diesel Fuel #3 Composite, 50,000 mg/L, 1 ml
#11598-03
Lot # 179635 Storage ≤-10 Degrees C Expiry 11/8/15
Solvt Methylene Chloride
Diesel Fuel #2 Composite OP: 12/28/11 EX: 12/28/12
Lot #: 179635 - 29647
Rec: 10/13/11 MFR exp. 11/08/15
12/28/11

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
#11598-03
Lot # 179635 Storage ≤-10 Degrees C Expiry 11/8/15
Solvt Methylene Chloride
Diesel Fuel #2 Composite OP: 12/28/11 EX: 12/28/12
Lot #: 179635 - 29646
Rec: 10/13/11 MFR exp. 11/08/15

MOTOR OIL SPIKE

MOTOR OIL

50,000ng/mL O2SI 3000mL 75mL 2000ng/mL MC # 110510F 12/28/11 EX: 3/28/12

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 OP: 12/28/11 EX: 12/28/12
Date Opene Motor oil composite
Lot #: 161898 - 27589
Rec: 10/18/10 MFR exp. 07/23/13
12/28/11

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 OP: 12/28/11 EX: 12/28/12
Date Opene Motor oil composite
Lot #: 161898 - 27588
Rec: 10/18/10 MFR exp. 07/23/13

Motor Oil Composite, 50,000 mg/L, 1 ml
116390-02
Lot # 171363 Storage ≤-10 Degrees C Expiry 4/9/14
Solvt Methylene Chloride
Motor oil composite OP: 12/28/11 EX: 12/28/12
Lot #: 171363 - 28642
Rec: 4/20/11 MFR exp. 04/09/14
12/28/11

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

1/10/12

DIESEL 2ND SOURCE						
STD	Init. Conc	Source	Aliquot	Final Vol.	Final Conc.	Solvent
DIESEL STD.	1000µg/ml	O2SI	400µL	1 mL	400 µg/mL	MC
Lot:167768-29406	Prep:	10/26/11				52257
	Exp:	04/26/12				

TL 1/10/12 Ex 4/26/12

TCH SURROGATE CURVE										
STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50		11/15/11	05/15/12	50	100	400	600	800	1000
MC		51257			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

TL 1/10/12 Ex 5/15/12

DIESEL CURVE										
STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
DIESEL	1000		12/28/11	06/28/12	10	100	400	600	800	1000
MC		51257			990	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

TL 1/10/12 Ex 6/28/12

MOTOR OIL CURVE										
STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		12/28/11	06/28/12	50	100	400	600	800	1000
MC		51257			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

1/10/12

TL 1/10/12 Ex 6/28/12

NOT used

1/10/12

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOL'N LOT #	DATE / INITIALS
							003

THC SURROGATE (* GIVEN TO EXTRACTIONS)

O-TERPHENYL OCTACOSANE	600ug/ml	O2SI	N/A	25ML	600ug/ml	N/A	12/28/11 EX: ~~12/28/11~~ 12/28/12

CAT: 1103116-05
LOT: 176405-29679 thru 683
OP: 12/28/11
EX: 12/28/12

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

12/28/11
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
		10/26/11	04/26/12			51204

DIESEL CAL STD.						
STD.	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT / LOT#
DIESEL FUEL #2	50,000 ug/mL	O2SI CAT#011598-03 LOT#179635-29648 OP:12/28/11 EXP:12/28/12	500µL	25mL	1000ug/mL	MC LOT# 110510F
O-TERPHENYL OCTACOSANE	600 ug/mL	O2SI CAT#1110316-05 LOT#176405-29679 OP:12/28/11EXP:12/28/12	2080µL		50ug/mL	

12/28/11
EX: 6/28/12

MOTOR OIL CAL STD						
STD.	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT / LOT#
MOTOR OIL	50,000 ug/mL	O2SI CAT#116390-02 LOT#171363-28618 OP:12/28/11 EXP:12/28/12	500 µL	25mL	1000ug/mL	MC LOT# 110510F

12/28/11
EX: 6/28/12

DIESEL 2ND SOURCE

DIESEL FUEL #2	50,000ug/ml	O2SI	500ul	25ML	1000ug/ml	MC #110510F	12/28/11 EX: 6/28/12

CAT: 011598-03
LOT: 1677768-29405
OP: 12/28/11
EX: 12/28/12

STANDARD | INITIAL CONC | SOURCE DATE | ALIQUOT | FINAL VOLUME | FINAL CONC | SOL'N LOT # | DATE / INITIALS

U23

2/6/12

HERBICIDE CCV LVL 3 & 4

Conc.In Mix	STK SRC	CONC. OF STK	ALIQUOT	Final Vol.	SOLVENT
100 µg/mL	HERB STD	VARIOUS	100 µL	1mL	MTBE
200µg/ml	11/17/11		200 µL	1mL	LOT#
	EXP: 5/17/12				50112

2/6/12
EX: 5/17/12

2/6/12

PCB Standard

STANDARD	INIT CONC.	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC.	SOLVENT
AR1260	1000 µg/mL	O2SI	250 µL	25 mL	10 µg/mL	Hexane
AR1016	CAT:	130011-03				Lot#
	LOT:	152374-25356				010711A
	OP:	02/08/12				
	EXP:	11/01/12				
TCMX	5000 µg/mL	O2SI	10µL		2 µg/mL	
DECA	CAT:	130070-02				
DBC	LOT:	180787-29966				
	OP:	12/08/11				
	EXP:	12/08/12				

2/6/12
EX: 8/6/12

2/6/12

PCB CALIBRATION CURVE

Compound	Initial Conc.	Source Date		Aliquot	Final Vol.	Final Conc.	SOLVENT
AR1260	10 µg/mL	PCB Std.	1D	10 µL	10 mL	0.01/0.002 µg/mL	Hexane
AR1016	10 µg/mL Prep:	2/8/2012	1C	25 µL	10 mL	0.025 / 0.005	Lot#
TCMX	2 µg/mL Exp:	8/8/2012	1B	50 µL	10 mL	0.05 / 0.01	010711A
DECA	2 µg/mL		1	500 µL	50 mL	0.1 / 0.02	
DBC	2 µg/mL		2	1250 µL	50 mL	0.25 / 0.05	
			3	500 µL	10 mL	0.5 / 0.10	
			4	750 µL	10 mL	0.75 / 0.15	
			5	1000 µL	10 mL	1.0 / 0.20	

2/6/12
EX: 8/6/12

2/6/12

PCB 2nd Src Stock

STANDARD	INIT CONC.	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC.	SOLVENT
AR1260	200 µg/mL	O2SI	500 µL	10 mL	10 µg/mL	Hexane
AR1016	CAT:	130011-01				Lot#
	LOT:	183605-27183				010711A
	OP:	02/08/12				
	EXP:	02/08/13				

2/6/12
EX: 8/6/12

PCB 2nd Src

STANDARD	INIT CONC.	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC.	SOLVENT
AR1260	10 µg/mL	PCB 2nd SRC STK	250 µL	5 mL	0.5 µg/mL	Hexane
AR1016	Prep:	02/06/12				Lot#
	Exp:	08/06/12				010711A

2/7/12

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
		12/28/11	06/28/12			51204

2/7/12
EX: 6/28/12

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
		12/28/11	06/28/12			51204

SBP011

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	120201A	Extraction Method	SBP011	Units	mL

Spiked ID 1	Diesel Spike 12/02/11 BX 03/02/12		Surrogate ID 1	THC Surrogate 176405-29682	
Spiked ID 2	Motor Oil Spike 12/02/11 BX 03/02/12		Surrogate ID 2		
Spiked ID 3	Diesel Cal Std Spike 10/26/11-04/26/12		Surrogate ID 3		
Spiked ID 4	Motor Oil Cal Std Spike 10/26/11 BX 04/26/12		Surrogate ID 4		
Spiked ID 5	Diesel Spike 12/28/11 EX 03/28/12		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:	02/10/12 0:00	

pH1			Water Bath Temp Criteria	80 °C
pH2				
pH3				

Spiked By: GH **Date** 02/01/12 **Witnessed By:** IC **Date** 02/01/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	120201A Blk				0.250	1	1000	5	7	02/01/12 15:45	
						equip	E-WB5				
2	120201A LCS-1		1	1	0.250	1	1000	5	7	02/01/12 15:45	
						equip	E-WB5				
3	120201A LCS-2		1	2	0.250	1	1000	5	7	02/01/12 15:45	
						equip	E-WB5				
4	AY53485	AY53485W01	0.050	3	NA	NA	1000	5	7	02/01/12 15:45	66774-LOD/LOQ CHECK DIESEL -- Other
						equip	E-WB5				
5	AY53485 MO LOD		0.200	4	NA	NA	1000	5	7	02/01/12 15:45	66774-MO LOD CHECK
						equip	E-WB5				
6	AY53485 MO LOQ		0.500	4	NA	NA	1000	5	7	02/01/12 15:45	66774- MO LOQ CHECK
						equip	E-WB5				
7	AY53684	AY53684W01			0.250	1	1050	5	7	02/01/12 15:45	66800-PLASTIC LITER BOTTLE REEXTRACT -- PL Liter
						equip	E-WB5				
8	AY53807 MS-1	AY53807W12	1	5	0.250	1	1000	5	7	02/01/12 15:45	66826-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
9	AY53807 MSD-1	AY53807W14	1	5	0.250	1	1020	5	7	02/01/12 15:45	66826-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
10	AY53807	AY53807W08			0.250	1	1040	5	7	02/01/12 15:45	66826-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
11	AY53808	AY53808W07			0.250	1	1030	5	7	02/01/12 15:45	66826-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
12	AY53861	AY53861W02			0.250	1	1040	5	7	02/01/12 15:45	66823-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
13	AY53862	AY53862W01			0.250	1	1050	5	7	02/01/12 15:45	66823-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				

Solvent and Lot#	
MC	EMD51257
Na2SO4	2351C512

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	HA
Date	2/7/12
Time	12:40
Refrigerator	Hobart

	Technician's Initials
Scanned By	IC
Sample Preparation	IC
Extraction	IC/GH
Concentration	JL

Modified	02/07/12 8:36:07 AM

Reviewed By: DRA **Date** 02/02/12

_SBP011

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	120201A	Extraction Method	SBP011	Units	mL

Spiked ID 1	Diesel Spike 12/02/11 EX 03/02/12		Surrogate ID 1	THC Surrogate 176405-29682	
Spiked ID 2	Motor Oil Spike 12/02/11 EX 03/02/12		Surrogate ID 2		
Spiked ID 3	Diesel Cal Std Spike 10/26/11-04/26/12		Surrogate ID 3		
Spiked ID 4	Motor Oil Cal Std Spike 10/26/11 EX 04/26/12		Surrogate ID 4		
Spiked ID 5	Diesel Spike 12/28/11 EX 03/28/12		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:	02/10/12 0:00	

pH1			Water Bath Temp Criteria	80 °C
pH2				
pH3				

Spiked By: GH **Date** 02/01/12 **Witnessed By:** IC **Date** 02/01/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
14	AY53863	AY53863W01			0.250	1	1050	5	7	02/01/12 15:45	66823-2 WBBK RUSH -- Amber Liter
						equip	B-WB6				
15	AY53974	AY53974W02			0.250	1	1050	5	7	02/01/12 15:45	66838-2 WBBK RUSH -- Amber Liter
						equip	B-WB7				

DRA 2/7/12

Solvent and Lot#	
MC	EMD51257
Na2SO4	2351C512

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	
Date	
Time	
Refrigerator	

	Technician's Initials
Scanned By	IC
Sample Preparation	IC
Extraction	IC/GH
Concentration	JL

Modified	02/07/12 8:36:07 AM

Reviewed By: DRA **Date** 02/02/12

Injection Log

Directory: G:\APOLLO\DATA\120110\120207

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	5	110005.D	1	DIESEL 10/1000 1/10/12	Mix(A)	1-10-12 16:51:33
2	6	110006.D	1	DIESEL 100/1000 1/10/12	Mix(A)	1-10-12 17:15:27
3	7	110007.D	1	DIESEL 400/1000	Mix(A)	1-10-12 17:39:13
4	8	110008.D	1	DIESEL 600/1000	Mix(A)	1-10-12 18:02:56
5	9	110009.D	1	DIESEL 800/1000	Mix(A)	1-10-12 18:26:41
6	10	110010.D	1	DIESEL 1000/1000	Mix(A)	1-10-12 18:50:21
7	17	110017.D	1	DIESEL 2ND SRC 400/1000 1/10/12	Mix(A)	1-10-12 21:35:15
8	18	110018.D	1	THC SURR 10/1000 1/10/12	Mix(C)	1-10-12 21:58:40
9	19	110019.D	1	THC SURR 100/1000	Mix(C)	1-10-12 22:22:01
10	20	110020.D	1	THC SURR 400/1000	Mix(C)	1-10-12 22:45:24
11	21	110021.D	1	THC SURR 600/1000	Mix(C)	1-10-12 23:08:42
12	22	110022.D	1	THC SURR 800/1000	Mix(C)	1-10-12 23:32:00
13	23	110023.D	1	THC SURR 1000/1000	Mix(C)	1-10-12 23:55:18
14	78	207078.D	1	DIESEL 400/1000 2/7/12	Mix(A)	2-9-12 18:24:49
15	80	207080.D	5	120201A BLK 5/1000	Water	2-9-12 19:12:47
16	81	207081.D	5	120201A LCS-1 5/1000	Water	2-9-12 19:36:40
17	87	207087.D	5	AY53807W12 MS-1 5/1000	Water	2-9-12 21:58:42
18	88	207088.D	4.90196	AY53807W14 MSD-1 5/1020	water	2-9-12 22:22:18
19	89	207089.D	4.80769	AY53807W08 5/1040	water	2-9-12 22:45:53
20	90	207090.D	4.85437	AY53808 W07 5/1030	Water	2-9-12 23:09:27
21	93	207093.D	1	DIESEL 400/1000 2/7/12	Mix(A)	2-10-12 0:20:04

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons

APPL, INC.

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
QC Summary

Method Blank

EPA 8270D SIM

Blank Name/QCG: **120131W-53803 - 163771**
Batch ID: #SIMHC-120131A

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	01/31/12	02/03/12
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/03/12
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/03/12
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/03/12
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/03/12
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/03/12
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/03/12
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/03/12
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/03/12
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/03/12
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/03/12
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/03/12
BLANK	SURROGATE: 2-FLUORBIPHENY	68.2	50-110			%	01/31/12	02/03/12
BLANK	SURROGATE: NITROBENZENE-	61.3	40-110			%	01/31/12	02/03/12
BLANK	SURROGATE: TERPHENYL-D14 (	52.9	50-135			%	01/31/12	02/03/12

Quant Method:SIM2.M
Run #:0203L022
Instrument:Linus
Sequence:L111027
Initials:LF

GC SC-Blank-REG MDLs
Printed: 02/09/12 2:30:48 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 02/03/12

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-FLUORBIPHENYL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120131A-BLK	Blank	50-110	68.2		40-110	61.3	
120131A-LCS	Lab Control Spike	50-110	51.5		40-110	56.5	
AY53807-MS	Matrix Spike	50-110	53.6		40-110	74.0	
AY53807-MSD	Matrix SpikeD	50-110	54.1		40-110	71.4	
AY53807	ES060	50-110	54.2		40-110	62.3	
AY53808	ES061	50-110	51.3		40-110	61.7	

Comments: Batch: #SIMHC-120131A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 02/03/12

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: TERPHENYL-D14 (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
120131A-BLK	Blank	50-135	52.9				
120131A-LCS	Lab Control Spike	50-135	55.0				
AY53807-MS	Matrix Spike	50-135	53.6				
AY53807-MSD	Matrix SpikeD	50-135	58.2				
AY53807	ES060	50-135	61.6				
AY53808	ES061	50-135	59.5				

Comments: Batch: #SIMHC-120131A

Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: **120131W-53803 LCS - 163771**
Batch ID: #SIMHC-120131A

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	2.46	61.5	45-105
2-METHYLNAPHTHALENE	4.00	2.21	55.3	45-105
ACENAPHTHENE	4.00	2.51	62.7	45-110
ACENAPHTHYLENE	4.00	2.33	58.3	50-105
ANTHRACENE	4.00	3.35	83.8	55-110
BENZO(A)ANTHRACENE	4.00	2.35	58.8	55-110
BENZO(A)PYRENE	4.00	2.44	61.0	55-110
BENZO(B)FLUORANTHENE	4.00	2.45	61.3	45-120
BENZO(GHI)PERYLENE	4.00	2.31	57.8	40-125
BENZO(K)FLUORANTHENE	4.00	3.80	95.0	45-125
CHRYSENE	4.00	3.12	78.0	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.40	60.0	40-125
FLUORANTHENE	4.00	3.15	78.8	55-115
FLUORENE	4.00	2.87	71.8	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.35	58.8	45-125
NAPHTHALENE	4.00	2.28	57.0	40-100
PHENANTHRENE	4.00	2.87	71.8	50-115
PYRENE	4.00	2.80	70.0	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.03	51.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.13	56.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.10	55.0	50-135

Comments: _____

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	01/31/12
Analysis Date :	02/03/12
Instrument :	Linus
Run :	0203L023
Initials :	LF

Printed: 02/09/12 2:30:57 PM

APPL Standard LCS

Matrix Spike Recoveries

EPA 8270D SIM

APPL ID: **120131W-53807 MS - 163771**
Batch ID: #SIMHC-120131A
Sample ID: AY53807
Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	3.92	ND	2.49	2.67	63.5	68.1	45-105	7.0	25
2-METHYLNAPHTHALENE	3.92	ND	2.02	3.08	51.5	78.6	45-105	41.6 #	25
ACENAPHTHENE	3.92	ND	2.28	2.53	58.2	64.5	45-110	10.4	25
ACENAPHTHYLENE	3.92	ND	2.13	2.34	54.3	59.7	50-105	9.4	25
ANTHRACENE	3.92	ND	2.69	3.07	68.6	78.3	55-110	13.2	25
BENZO(A)ANTHRACENE	3.92	ND	2.04	2.16	52.0 #	55.1	55-110	5.7	25
BENZO(A)PYRENE	3.92	ND	2.16	2.24	55.1	57.1	55-110	3.6	25
BENZO(B)FLUORANTHENE	3.92	ND	2.12	2.38	54.1	60.7	45-120	11.6	25
BENZO(GHI)PERYLENE	3.92	ND	2.20	2.35	56.1	59.9	40-125	6.6	25
BENZO(K)FLUORANTHENE	3.92	ND	3.25	3.77	82.9	96.2	45-125	14.8	25
CHRYSENE	3.92	ND	2.37	2.78	60.5	70.9	55-110	15.9	25
DIBENZ(A,H)ANTHRACENE	3.92	ND	2.01	2.24	51.3	57.1	40-125	10.8	25
FLUORANTHENE	3.92	ND	2.64	3.03	67.3	77.3	55-115	13.8	25
FLUORENE	3.92	ND	2.59	2.89	66.1	73.7	50-110	10.9	25
INDENO(1,2,3-CD)PYRENE	3.92	ND	2.10	2.24	53.6	57.1	45-125	6.5	25
NAPHTHALENE	3.92	ND	2.24	2.32	57.1	59.2	40-100	3.5	25
PHENANTHRENE	3.92	ND	2.31	2.73	58.9	69.6	50-115	16.7	25
PYRENE	3.92	ND	2.19	2.53	55.9	64.5	50-130	14.4	25
SURROGATE: 2-FLUORBIPHENYL (S)	1.96	NA	1.05	1.06	53.6	54.1	50-110		
SURROGATE: NITROBENZENE-D5 (S)	1.96	NA	1.45	1.40	74.0	71.4	40-110		
SURROGATE: TERPHENYL-D14 (S)	1.96	NA	1.05	1.14	53.6	58.2	50-135		

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	SIM2.M	SIM2.M
Extraction Date :	01/31/12	01/31/12
Analysis Date :	02/04/12	02/04/12
Instrument :	Linus	Linus
Run :	0203L033	0203L034
Initials :	LF	

Printed: 02/09/12 2:31:01 PM
APPL MSD SCII

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 02/03/12

Matrix: WATER Instrument: Linus

Blank ID: 120131A-BLK Time Analyzed: 2316

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120131A-BLK	Blank	0203L022	02/03/12 2316
120131A-LCS	Lab Control Spike	0203L023	02/03/12 2341
120131A-MS	Matrix Spike	0203L033	02/04/12 0350
120131A-MSD	Matrix SpikeD	0203L034	02/04/12 0415
AY53807	ES060	0203L035	02/04/12 0439
AY53808	ES061	0203L036	02/04/12 0504

Comments: Batch: #SIMHC-120131A

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 66826
Matrix: Water
ID: SVTUNE 10-27-11

SDG No: 66826
Date Analyzed: 02/03/12
Instrument: Linus
Time Analyzed: 22:33

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	120131A BLK 1/1000	0203L022.D	02/03/12 23:16
2	Lab Control Spike	120131A LCS-1 1/1000	0203L023.D	02/03/12 23:41
3	Matrix Spike	AY53807W07 MS-1 1/10	0203L033.D	02/04/12 3:50
4	Matrix Spike Dup	AY53807W11 MSD-1 1/1	0203L034.D	02/04/12 4:15
5	ES060	AY53807W09 1/1020	0203L035.D	02/04/12 4:39
6	ES061	AY53808W06 1/1050	0203L036.D	02/04/12 5:04
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	51.6
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.6
127	40 - 60% of mass 198	51.7
197	0 - 1% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	7.2
275	10 - 30% of mass 198	26.7
365	1 - 100% of mass 198	3.2
441	0.01 - 100% of mass 443	73.8
442	40 - 150% of mass 198	68.4
443	17 - 23% of mass 442	20.9

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66826

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	120131A BLK 1/1000	1992	6.13	806	8.11	1749	9.87
02	120131A LCS-1 1/1000	1861	6.12	887	8.10	1629	9.85
03	AY53807W07 MS-1 1/1(	1707	6.12	845	8.10	1702	9.85
04	AY53807W11 MSD-1 1/	1444	6.13	709	8.10	1362	9.85
05	AY53807W09 1/1020	1639	6.14	793	8.11	1537	9.87
06	AY53808W06 1/1050	1796	6.11	919	8.09	1567	9.82
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.: 66826

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	120131A BLK 1/1000	2456	12.96	1805	14.61		
02	120131A LCS-1 1/1000	2336	12.94	1896	14.57		
03	AY53807W07 MS-1 1/10	2592	12.94	1940	14.57		
04	AY53807W11 MSD-1 1/	2124	12.94	1605	14.58		
05	AY53807W09 1/1020	2294	12.96	1787	14.61		
06	AY53808W06 1/1050	2363	12.94	1977	14.59		
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: Max Solmssen
Project: RED HILL/1022-024
Sample ID: ES060
Sample Collection Date: 01/26/12

ARF: 66826
APPL ID: AY53807
QCG: #SIMHC-120131A-163771

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	01/31/12	02/04/12
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/04/12
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/04/12
8270D-SIM	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/04/12
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/04/12
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/04/12
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/04/12
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/04/12
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/04/12
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/04/12
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/04/12
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/04/12
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	54.2	50-110			%	01/31/12	02/04/12
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	62.3	40-110			%	01/31/12	02/04/12
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	61.6	50-135			%	01/31/12	02/04/12

Quant Method: SIM2.M
Run #: 0203L035
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 02/09/12 2:31:07 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0203L035.D Vial: 35
Acq On : 4 Feb 12 4:39 Operator: LF
Sample : AY53807W09 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: Feb 6 11:26 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.14	136	1639	2.50000 ppb	0.02
6) Acenaphthene-D10(IS)	8.11	164	793	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.87	188	1537	2.50000 ppb	0.02
15) Chrysene-D12(IS)	12.96	240	2294	2.50000 ppb	0.04
21) Perylene-D12(IS)	14.61	264	1787	2.50000 ppb	0.05
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.53	82	366	1.22240 ppb	0.06
Spiked Amount 1.961			Recovery = 62.322%		
7) Surrogate Recovery (FBP)	7.39	172	766	1.06231 ppb	0.04
Spiked Amount 1.961			Recovery = 54.162%		
17) Surrogate Recovery (TPH)	11.71	244	1217	1.20788 ppb	0.00
Spiked Amount 1.961			Recovery = 61.608%		

Target Compounds Qvalue

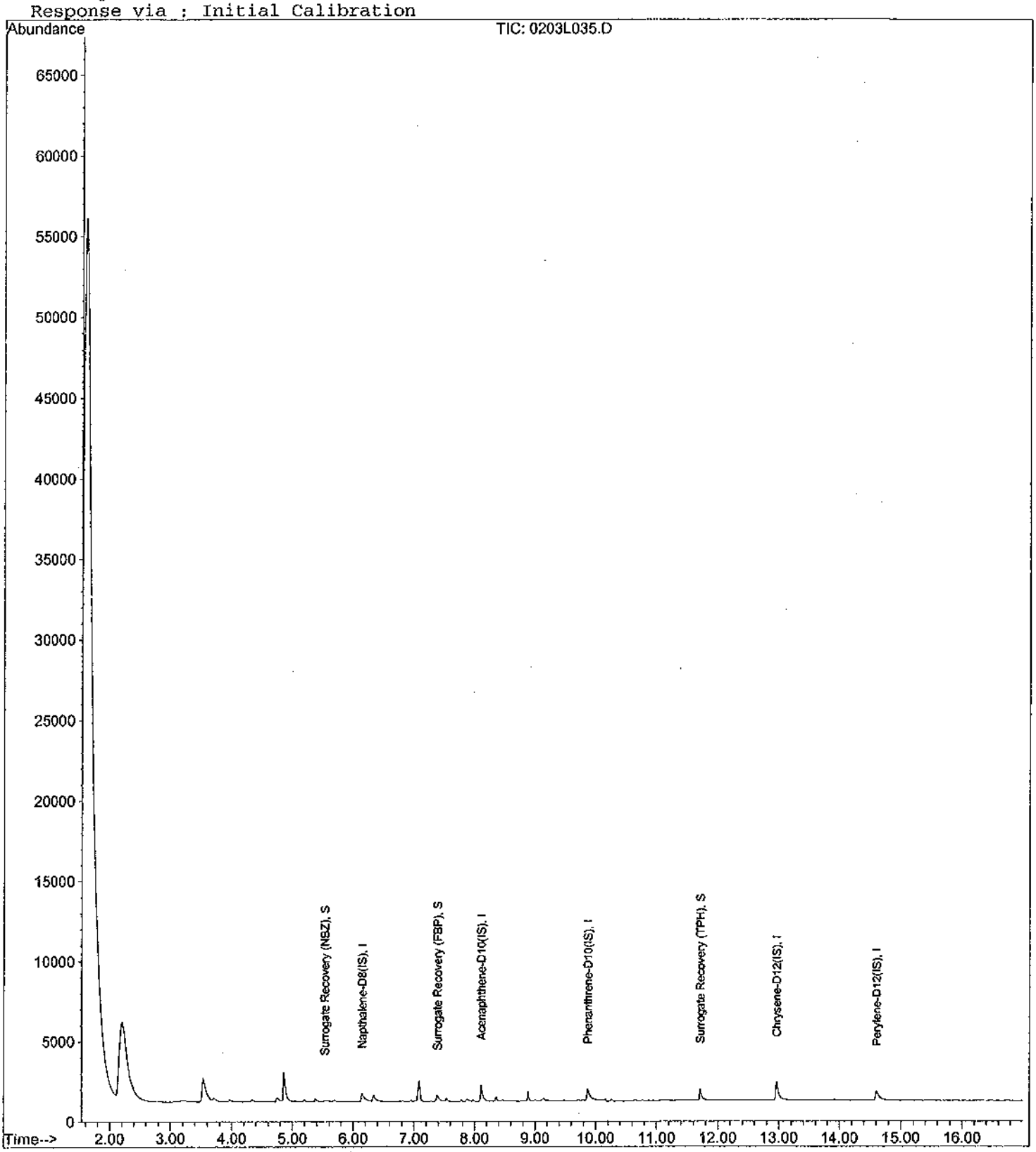
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0203L035.D Vial: 35
Acq On : 4 Feb 12 4:39 Operator: LF
Sample : AY53807W09 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: Feb 6 11:26 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration



EPA 8270D SIM

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

Attn: Max Solmssen
Project: RED HILL/1022-024
Sample ID: ES061
Sample Collection Date: 01/26/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66826
APPL ID: AY53808
QCG: #SIMHC-120131A-163771

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.57	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	2-METHYLNAPHTHALENE	0.17 J	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	ACENAPHTHENE	0.29	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	ACENAPHTHYLENE	0.089 J	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/04/12
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/04/12
8270D-SIM	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/04/12
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/04/12
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/04/12
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/04/12
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/04/12
8270D-SIM	FLUORENE	0.21	0.2	0.12	0.06	ug/L	01/31/12	02/04/12
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/04/12
8270D-SIM	NAPHTHALENE	1.7	0.2	0.10	0.05	ug/L	01/31/12	02/04/12
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/04/12
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/04/12
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	51.3	50-110			%	01/31/12	02/04/12
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	61.7	40-110			%	01/31/12	02/04/12
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	59.5	50-135			%	01/31/12	02/04/12

J = Estimated value.

Quant Method: SIM2.M
Run #: 0203L036
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 02/09/12 2:31:07 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0203L036.D Vial: 36
Acq On : 4 Feb 12 5:04 Operator: LF
Sample : AY53808W06 1/1050 Inst : Linus
Misc : Multiplr: 0.95

Quant Time: Feb 6 11:27 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.11	136	1796	2.50000 ppb	-0.01
6) Acenaphthene-D10(IS)	8.09	164	919	2.50000 ppb	-0.02
11) Phenanthrene-D10(IS)	9.82	188	1567	2.50000 ppb	-0.02
15) Chrysene-D12(IS)	12.94	240	2363	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.59	264	1977	2.50000 ppb	0.04
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.48	82	397	1.17546 ppb	0.01
Spiked Amount 1.905			Recovery	= 61.688%	
7) Surrogate Recovery (FBP)	7.34	172	841	0.97766 ppb	-0.01
Spiked Amount 1.905			Recovery	= 51.345%	
17) Surrogate Recovery (TPH)	11.69	244	1210	1.13255 ppb	-0.02
Spiked Amount 1.905			Recovery	= 59.483%	
Target Compounds					Qvalue
3) Naphthalene	6.13	128	2190	1.66686 ppb #	57
4) 2-Methylnaphthalene	6.93	142	117	0.17367 ppb	83
5) 1-Methylnaphthalene	7.01	142	442	0.56838 ppb	91
8) Acenaphthylene	7.91	152	114	0.08878 ppb #	5
9) Acenaphthene	8.12	154	216	0.29392 ppb	99
10) Fluorene	8.74	166	166	0.20644 ppb	89

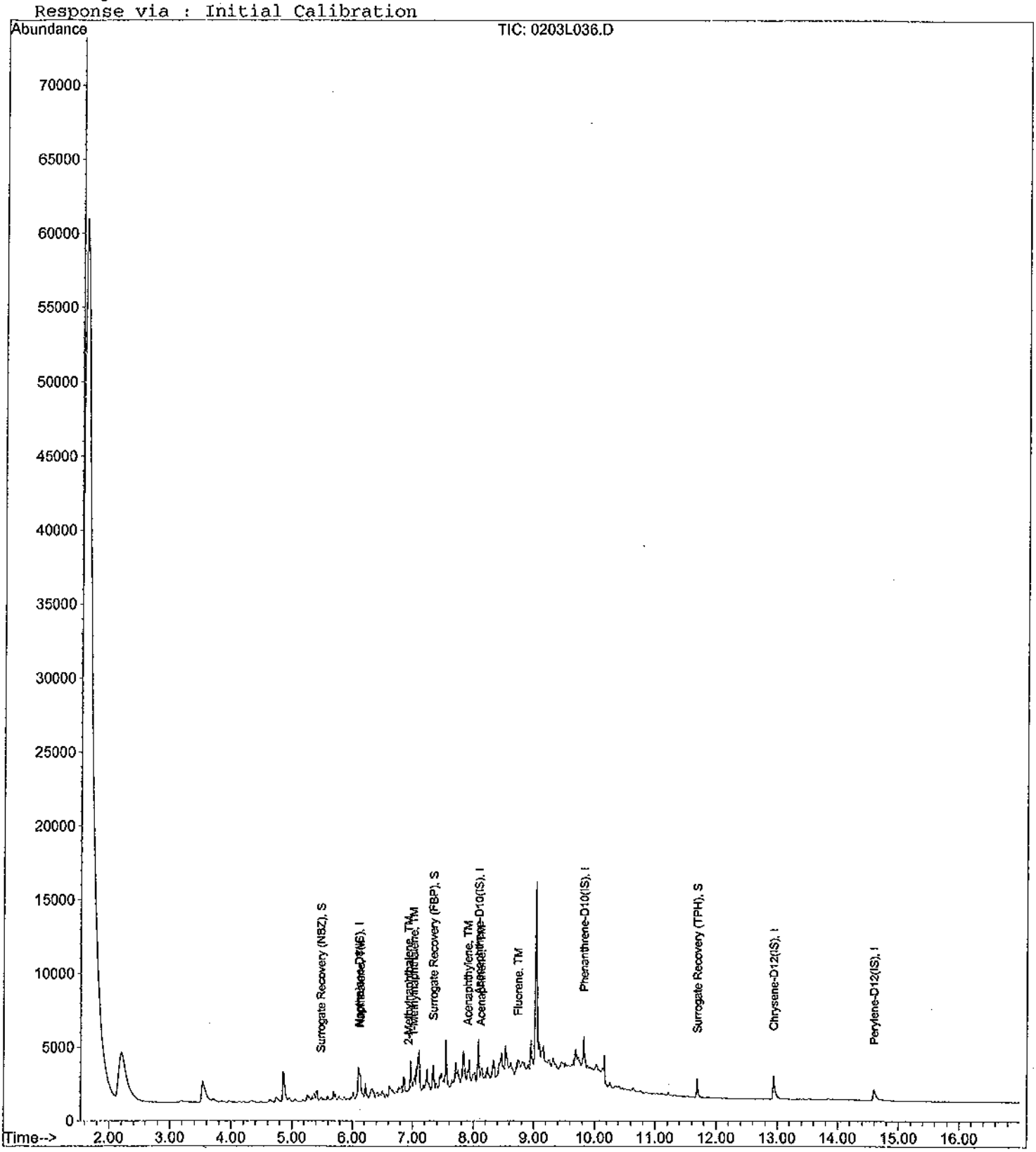
(#) = qualifier out of range (m) = manual integration
0203L036.D SIM2.M Mon Feb 06 11:36:23 2012

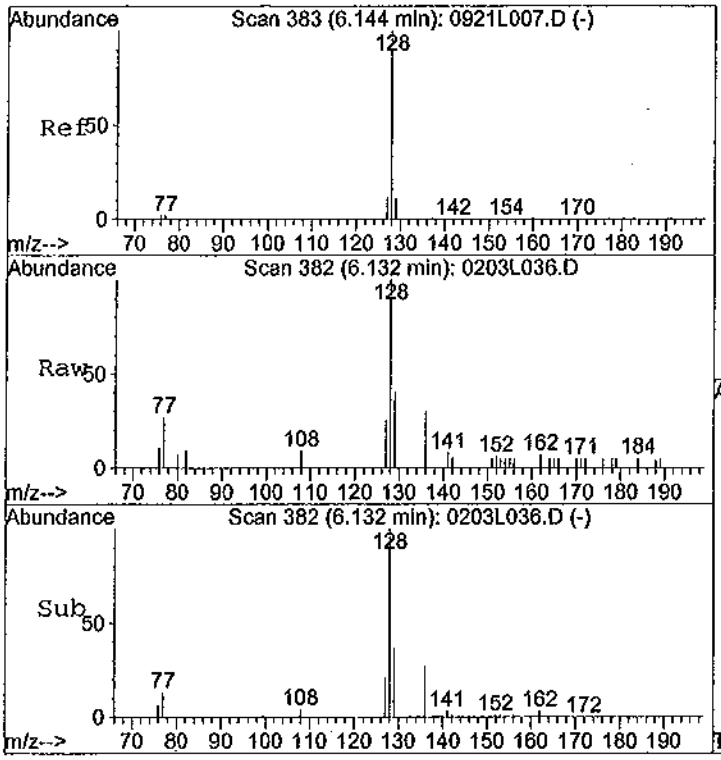
Quantitation Report

Data File : M:\LINUS\DATA\L111027\0203L036.D Vial: 36
Acq On : 4 Feb 12 5:04 Operator: LF
Sample : AY53808W06 1/1050 Inst : Linus
Misc : Multiplr: 0.95

Quant Time: Feb 6 11:27 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration

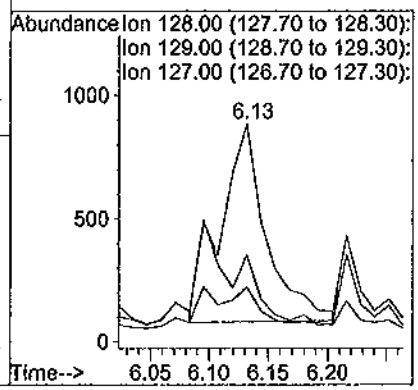


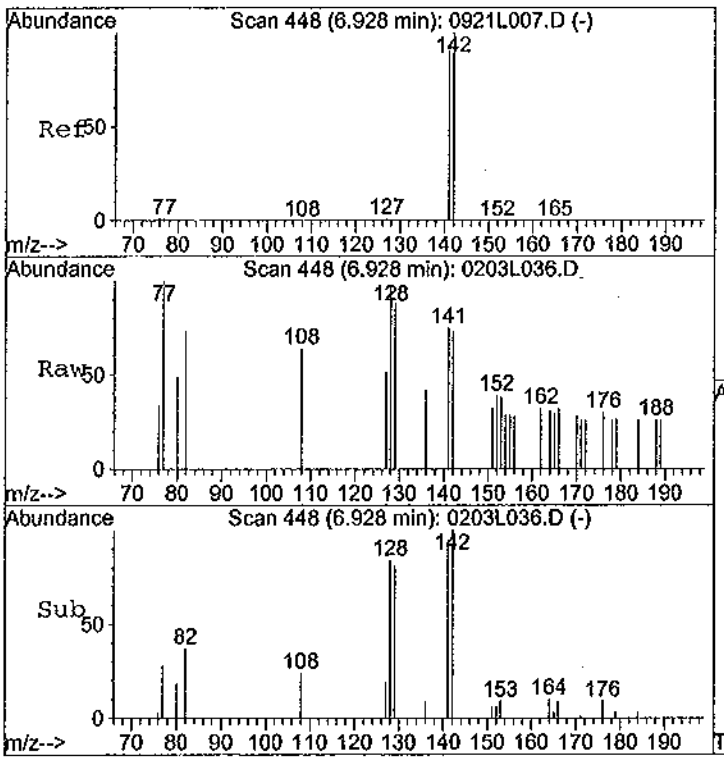


#3
Naphthalene
Concen: 1.66686 ppb
RT: 6.13 min Scan# 382
Delta R.T. -0.01 min
Lab File: 0203L036.D
Acq: 4 Feb 12 5:04

Tgt Ion:128 Resp: 2190

Ion	Ratio	Lower	Upper
128	100		
129	36.8	7.7	14.3#
127	20.3	8.6	16.0#

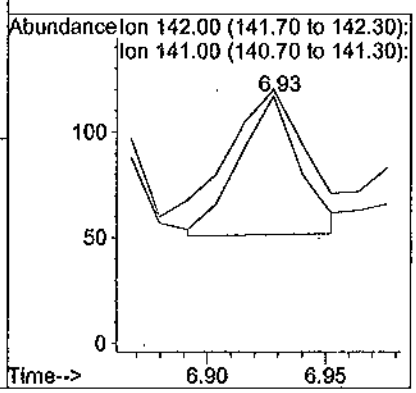


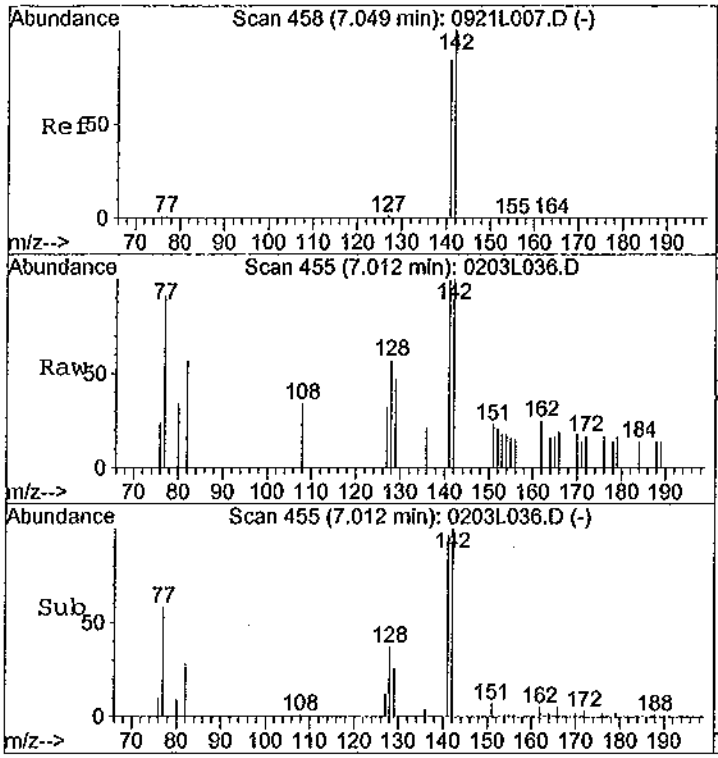


#4
2-Methylnaphthalene
Concen: 0.17367 ppb
RT: 6.93 min Scan# 448
Delta R.T. -0.05 min
Lab File: 0203L036.D
Acq: 4 Feb 12 5:04

Tgt Ion:142 Resp: 117

Ion	Ratio	Lower	Upper
142	100		
141	82.5	70.0	130.0

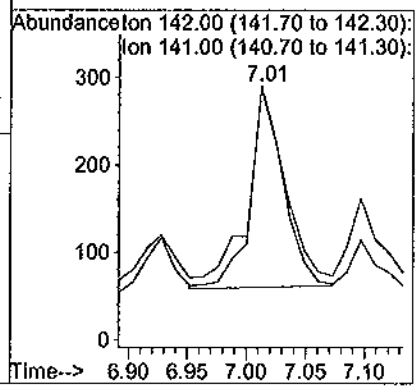


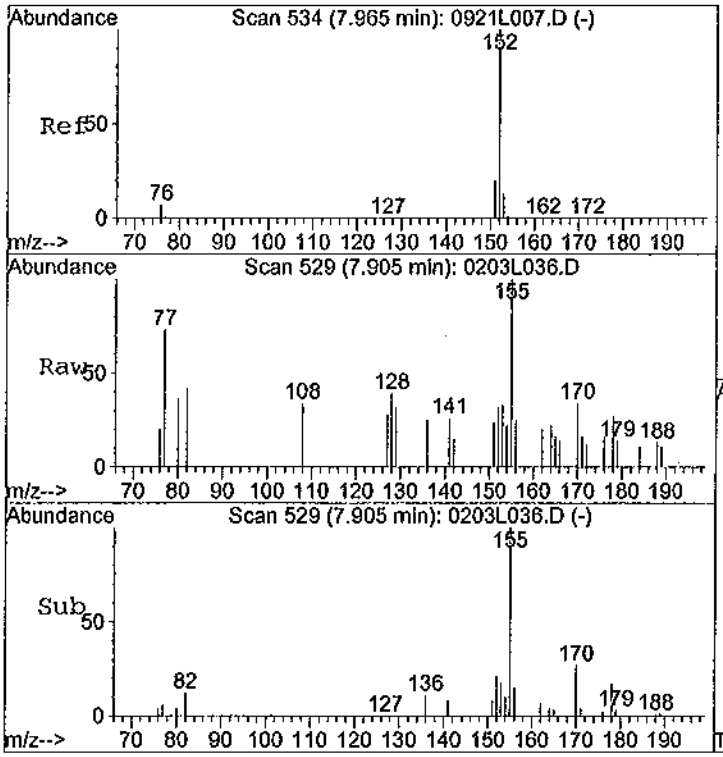


#5
1-Methylnaphthalene
Concen: 0.56838 ppb
RT: 7.01 min Scan# 455
Delta R.T. -0.04 min
Lab File: 0203L036.D
Acq: 4 Feb 12 5:04

Tgt Ion:142 Resp: 442

Ion	Ratio	Lower	Upper
142	100		
141	94.3	72.4	134.4

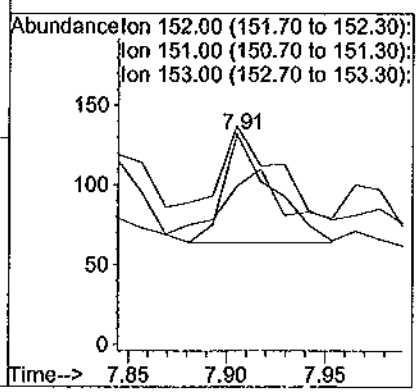


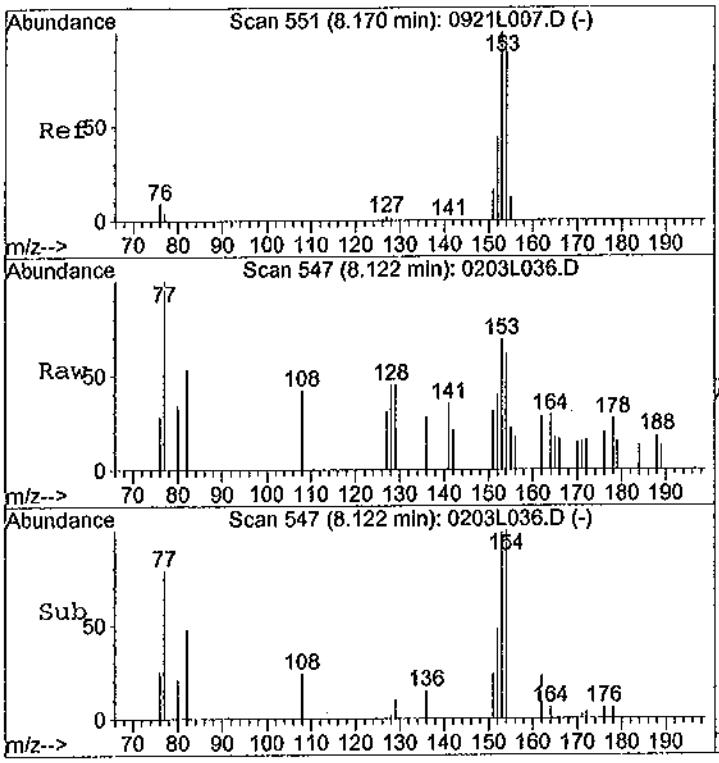


#8
Acenaphthylene
Concen: 0.08878 ppb
RT: 7.91 min Scan# 529
Delta R.T. -0.05 min
Lab File: 0203L036.D
Acq: 4 Feb 12 5:04

Tgt Ion:152 Resp: 114

Ion	Ratio	Lower	Upper
152	100		
151	35.3	13.7	25.4#
153	86.8	9.2	17.2#

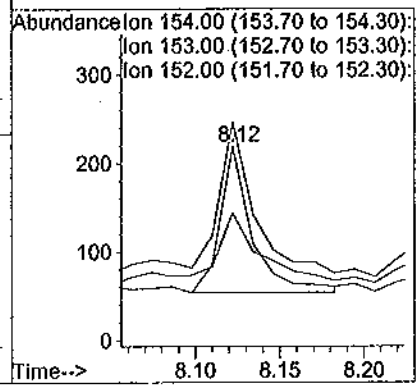


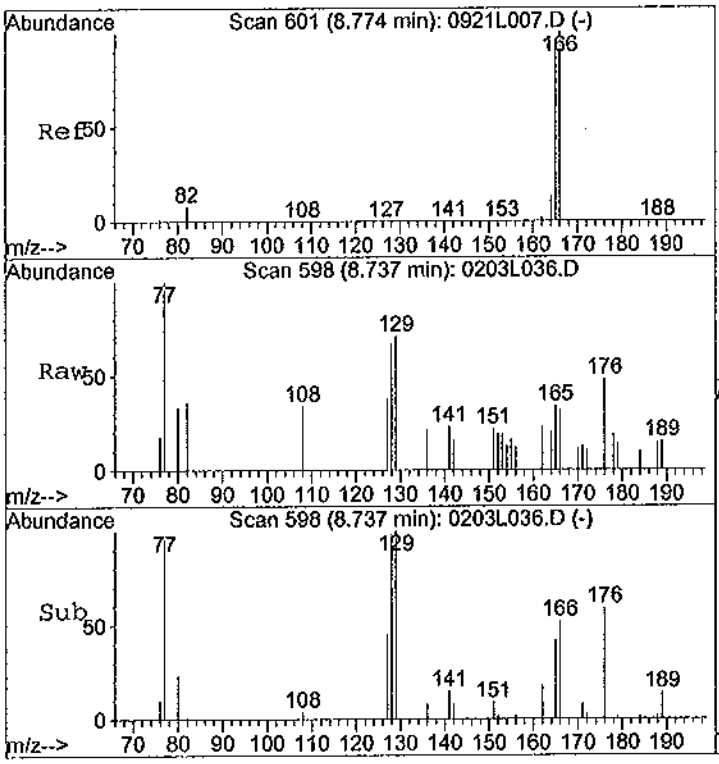


#9
Acenaphthene
Concen: 0.29392 ppb
RT: 8.12 min Scan# 547
Delta R.T. -0.02 min
Lab File: 0203L036.D
Acq: 4 Feb 12 5:04

Tgt Ion:154 Resp: 216

Ion	Ratio	Lower	Upper
154	100		
153	103.6	72.0	133.8
152	46.1	32.1	59.5

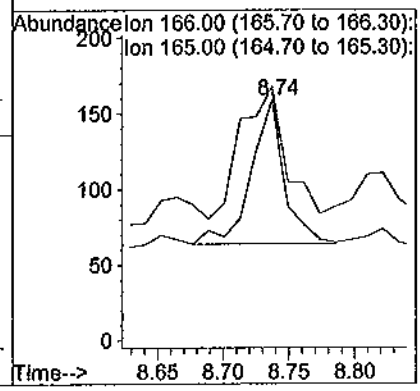




#10
Fluorene
Concen: 0.20644 ppb
RT: 8.74 min Scan# 598
Delta R.T. -0.02 min
Lab File: 0203L036.D
Acq: 4 Feb 12 5:04

Tgt Ion:166 Resp: 166

Ion	Ratio	Lower	Upper
166	100		
165	83.2	65.6	121.8



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Calibration Data

APPL, INC.

EPA 8270C SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66826
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

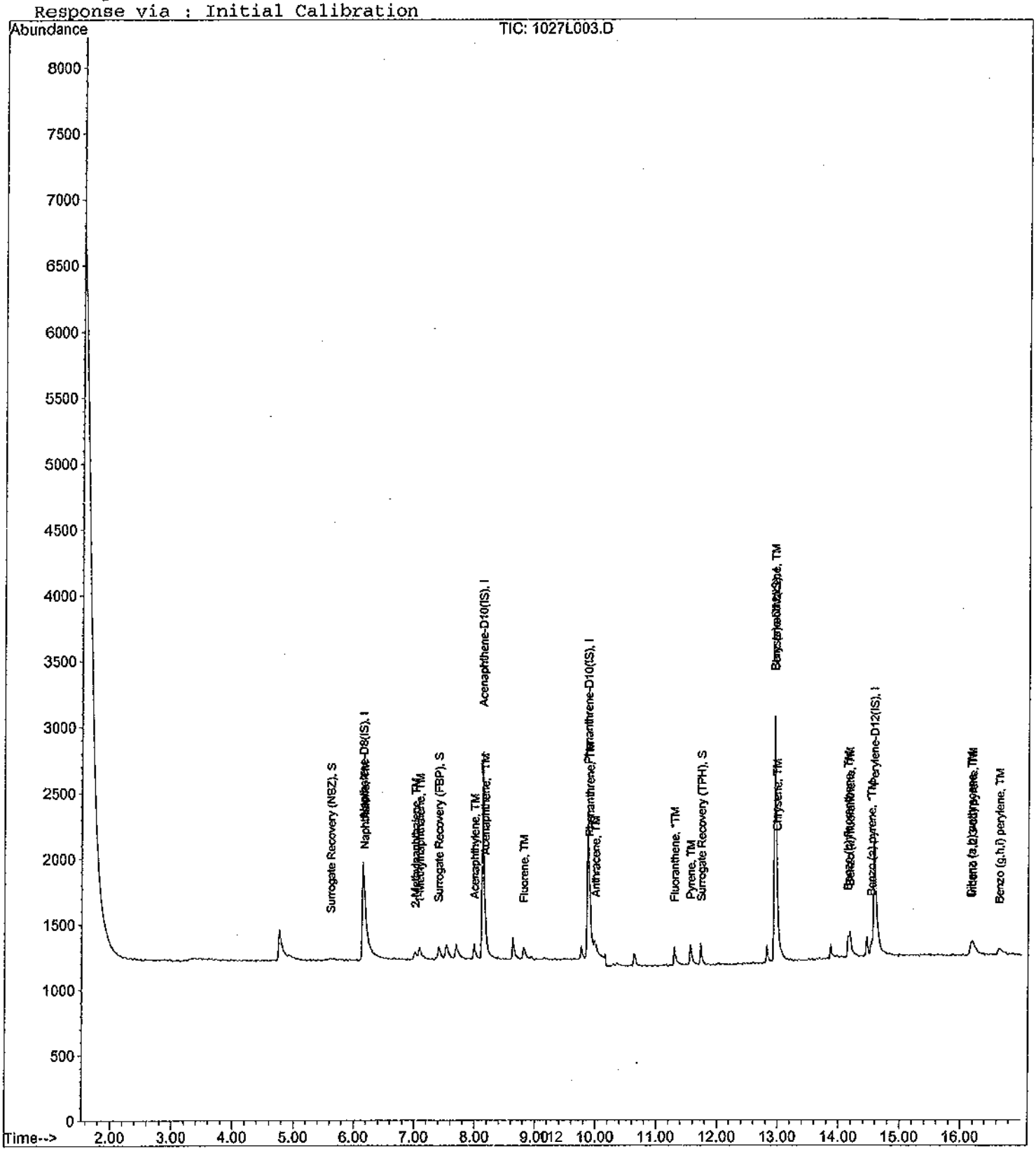
(#) = qualifier out of range (m) = manual integration
1027L003.D SIM2.M Tue Nov 01 17:33:39 2011 Page 1

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

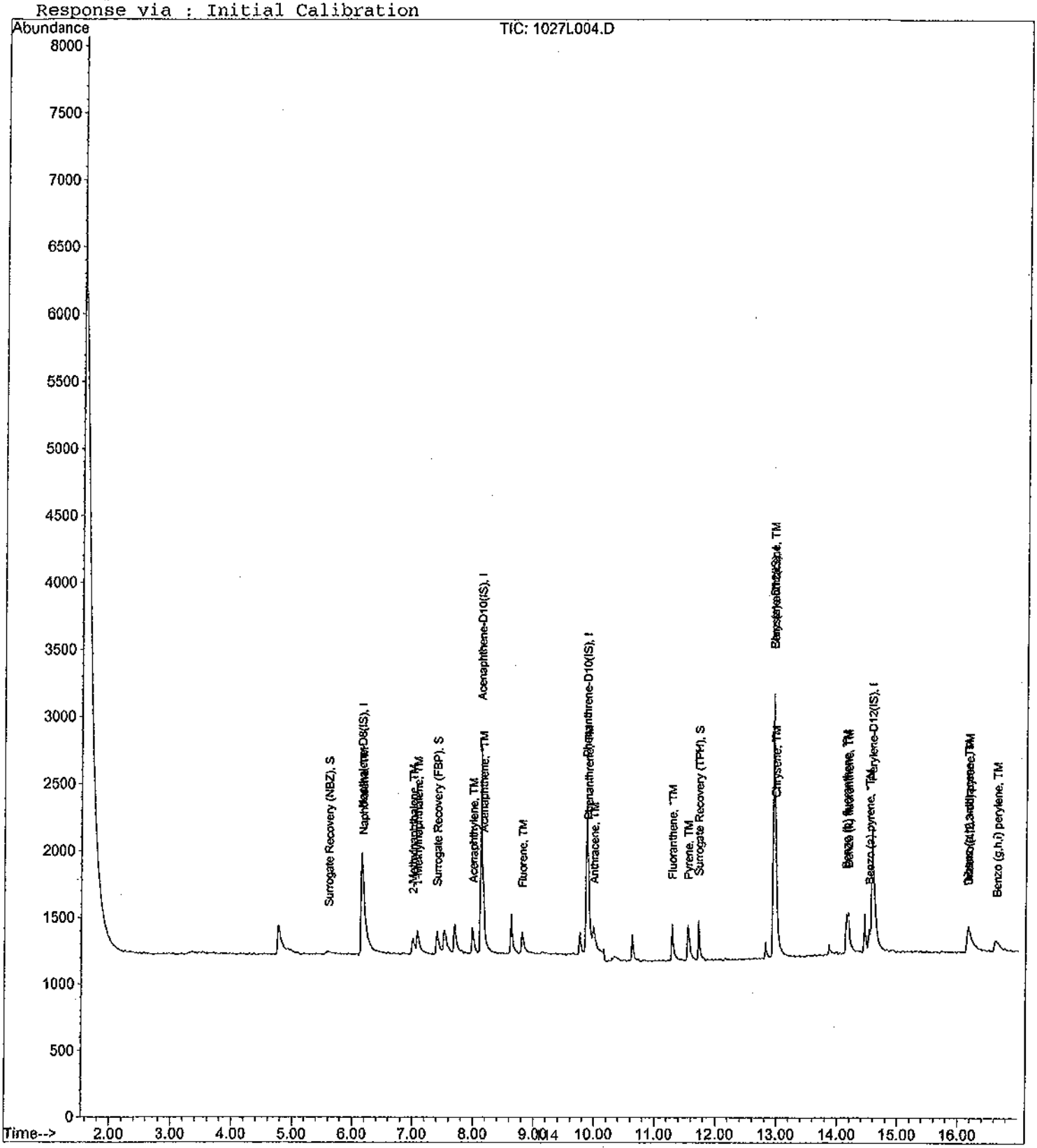
(#) = qualifier out of range (m) = manual integration
1027L004.D SIM2.M Tue Nov 01 17:33:41 2011 Page 1

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

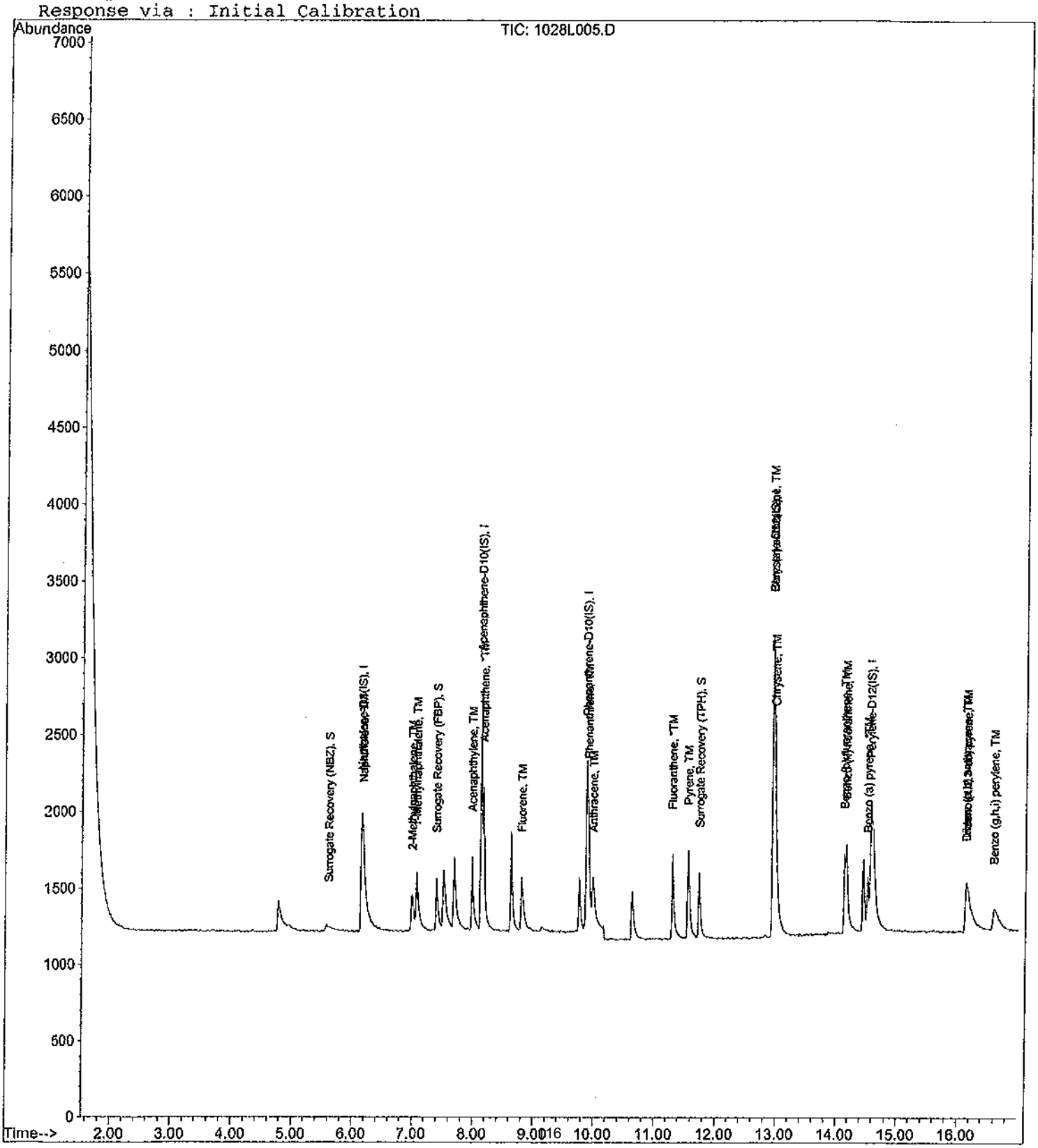
(#) = qualifier out of range (m) = manual integration
1028L005.D SIM2.M Tue Nov 01 17:34:13 2011 Page 1

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
1028L006.D SIM2.M Tue Nov 01 17:34:15 2011 Page 1

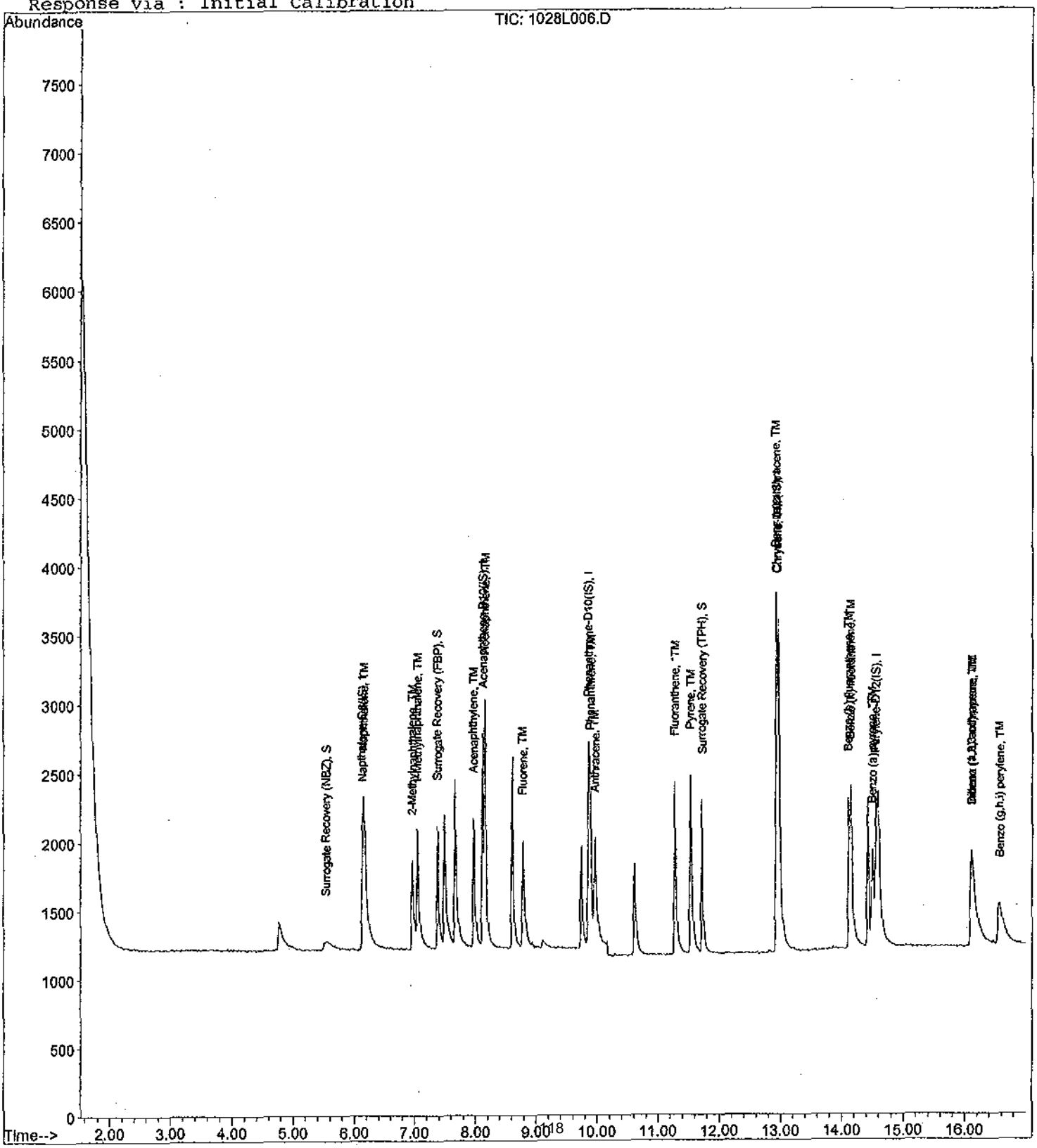
Quantitation Report

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

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

Quant Time: Oct 30 11:10 2011 Quant Results File: SIM2.RES

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



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

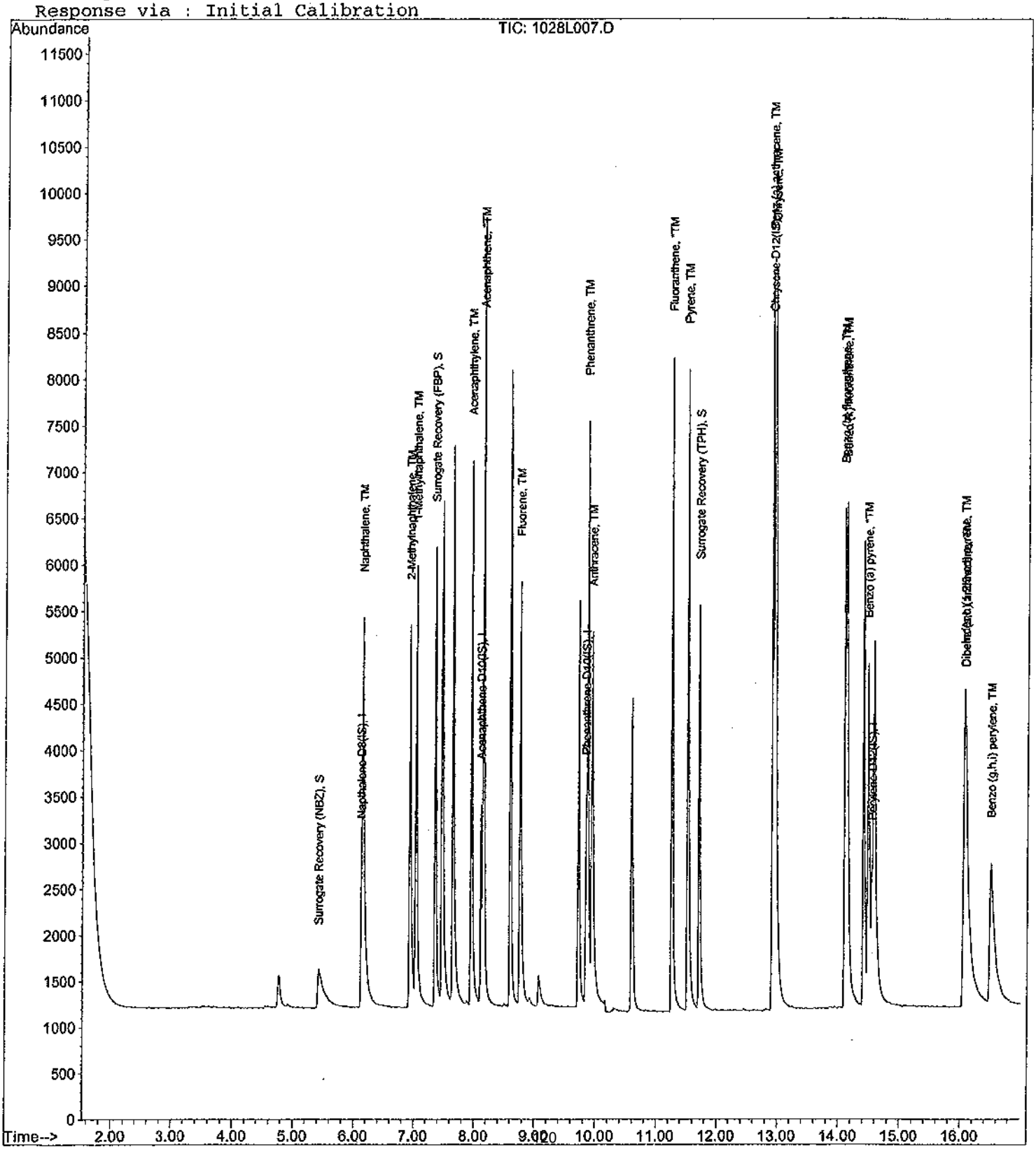
(#) = qualifier out of range (m) = manual integration
1028L007.D SIM2.M Tue Nov 01 17:34:17 2011 Page 1

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
Acq On : 28 Oct 11 12:23
Sample : 10ug/ml PAH
Misc :

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

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

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

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.12	136	2419	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.11	164	1154	2.50000 ppb		-0.02
11) Phenanthrene-D10(IS)	9.85	188	1800	2.50000 ppb		-0.02
15) Chrysene-D12(IS)	12.91	240	2580	2.50000 ppb		-0.05
21) Perylene-D12(IS)	14.55	264	2113	2.50000 ppb		-0.05
System Monitoring Compounds						
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
1028L008.D SIM2.M Tue Nov 01 17:34:19 2011 Page 1

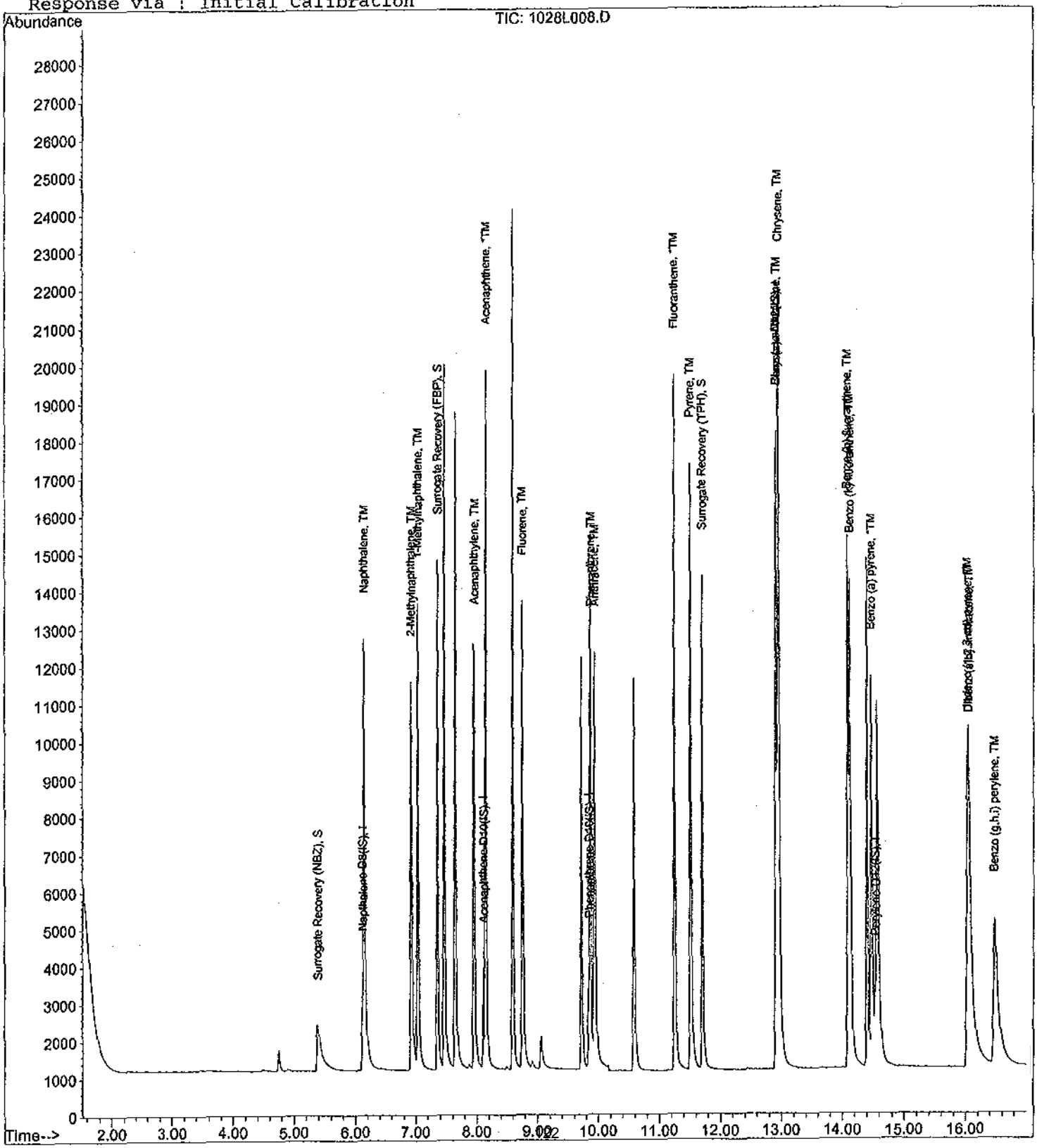
Quantitation Report

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

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

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

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



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
1028L009.D SIM2.M Tue Nov 01 17:34:21 2011 Page 1

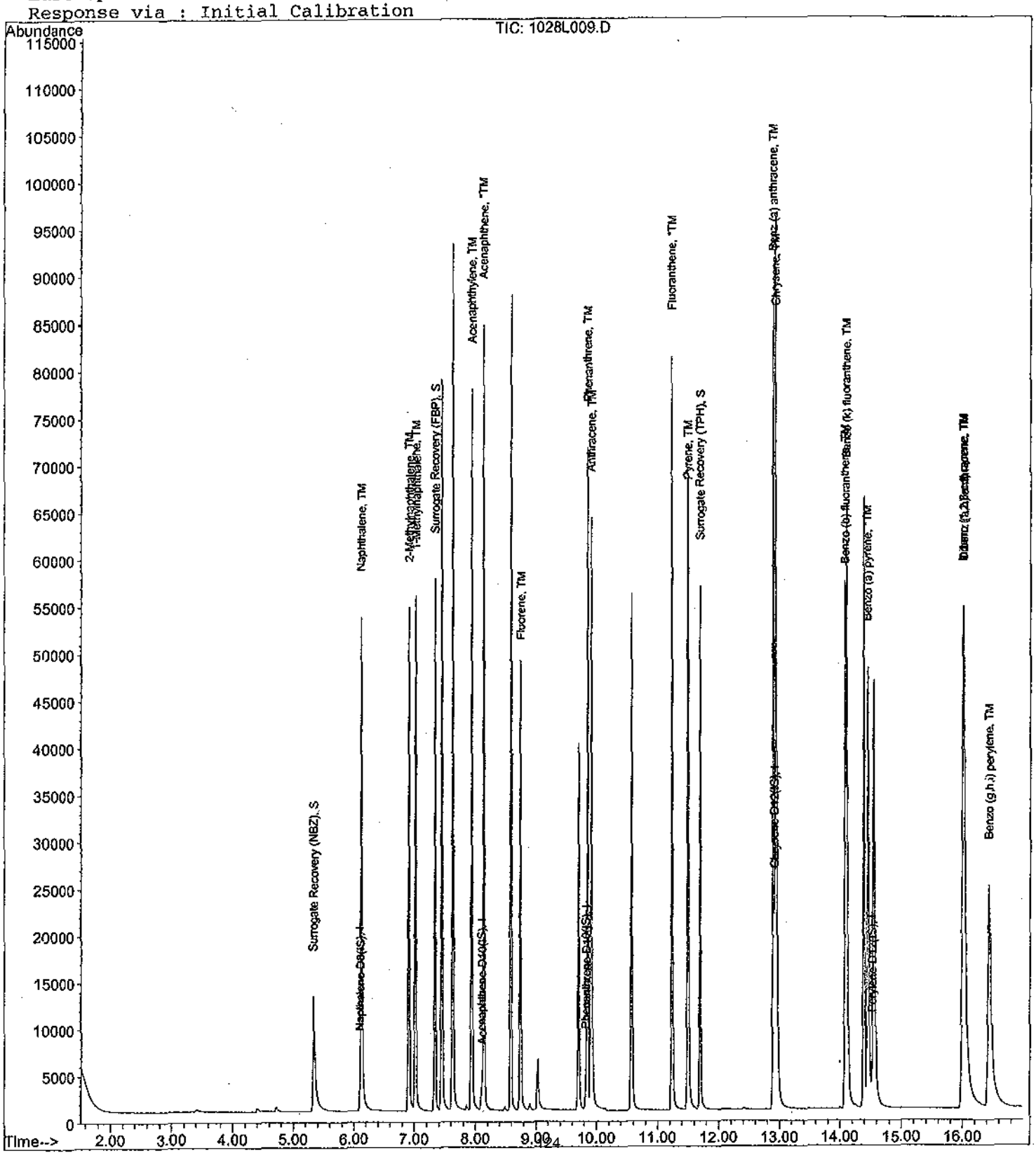
Quantitation Report

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

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

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

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



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

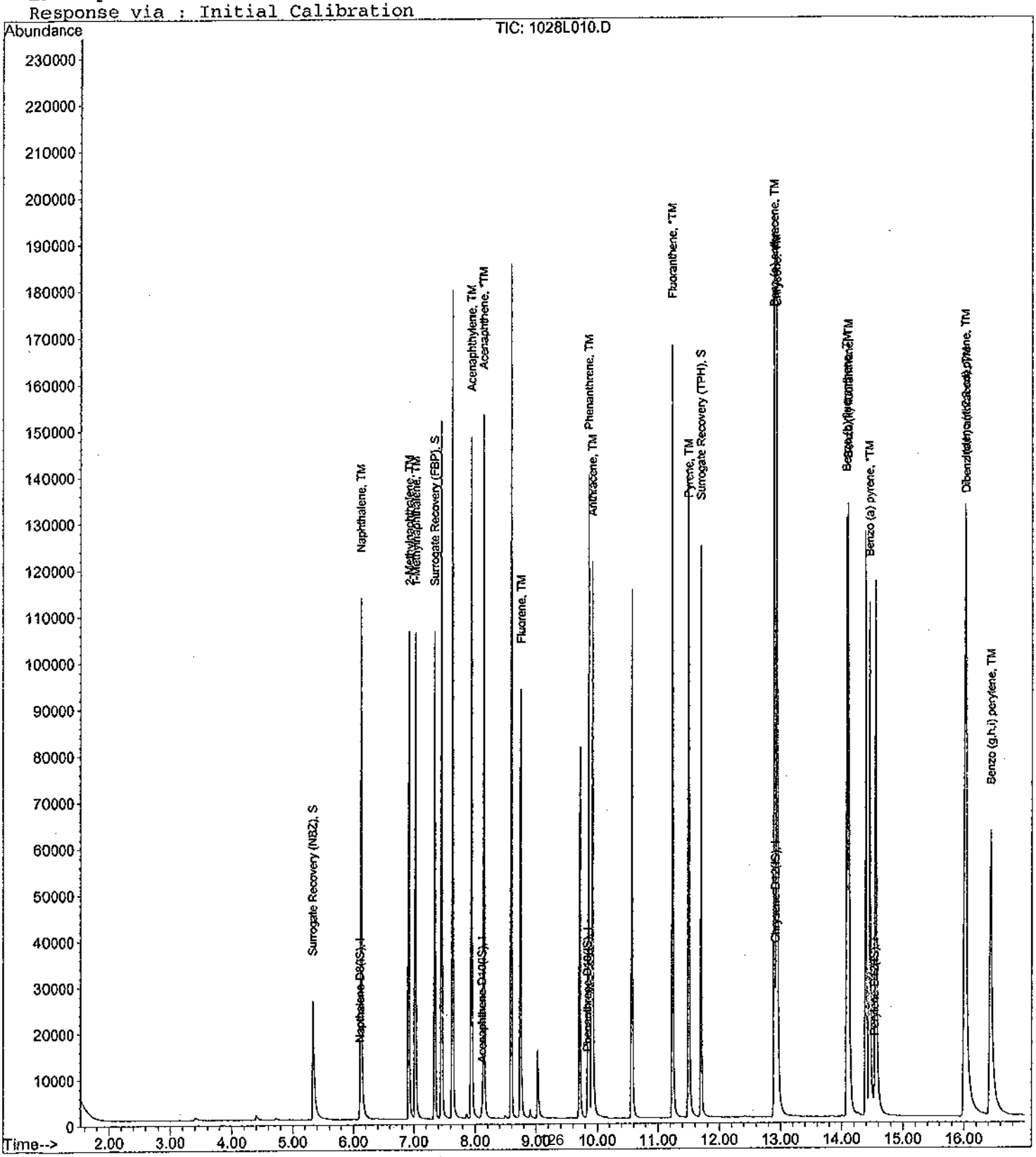
(#) = qualifier out of range (m) = manual integration
1028L010.D SIM2.M Tue Nov 01 17:34:23 2011 Page 1

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:
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

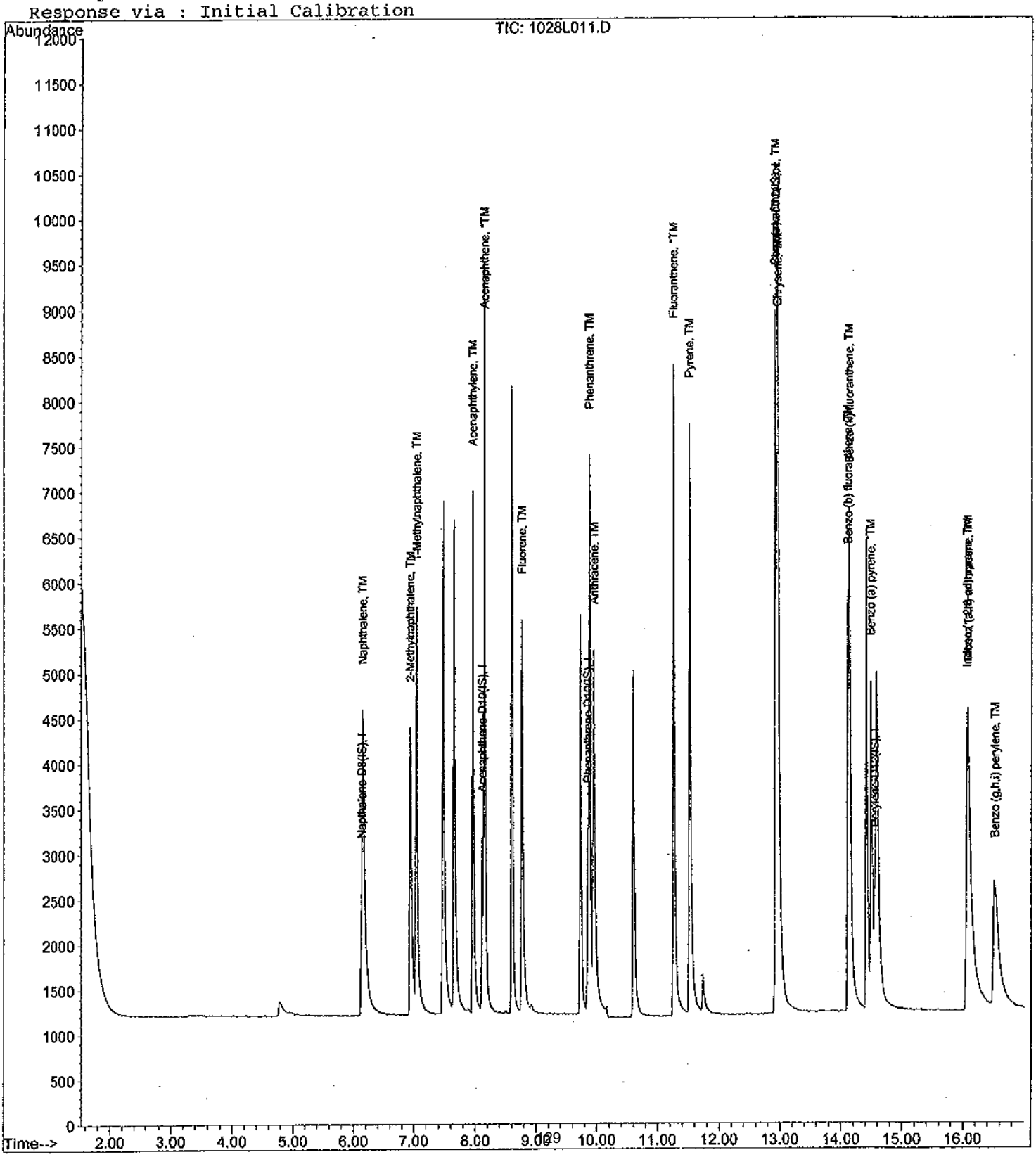
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.13	136	2295	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.11	164	1033	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.85	188	1773	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.93	240	2205	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	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

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. SDG No: 66826

Case No: Date Analyzed: 3 Feb 12 22:51

Matrix: Instrument: Linus

Initial Cal. Date: 10/27/11

Data File: 0203L021.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	S	Surrogate Recovery (NBZ)	0.4477	0.3820	15	S	
3	TM	Naphthalene	1.742	1.450	17	TM	
4	TM	2-Methylnaphthalene	0.8931	0.7929	11	TM	
5	TM	1-Methylnaphthalene	1.031	0.9232	10	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	S	Surrogate Recovery (FBP)	2.229	2.087	6.4	S	
8	TM	Acenaphthylene	3.327	2.875	14	TM	
9	*TM	Acenaphthene	1.904	1.738	8.7	*TM	
10	TM	Fluorene	2.083	2.010	3.5	TM	
11	I	Phenanthrene-D10(IS)	ISTD			I	
12	TM	Phenanthrene	1.609	1.512	6.0	TM	
13	TM	Anthracene	1.634	1.648	0.86	TM	
14	*TM	Fluoranthene	2.792	2.641	5.4	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	2.200	1.809	18	TM	
17	S	Surrogate Recovery (TPH)	1.077	0.9581	11	S	
18	TM	Benz (a) anthracene	1.449	1.292	11	TM	
19	TM	Chrysene	1.939	1.853	4.4	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.502	1.240	17	TM	
21	I	Perylene-D12(IS)	ISTD			I	
22	TM	Benzo (b) fluoranthene	1.761	1.487	16	TM	
23	TM	Benzo (k) fluoranthene	1.823	2.112	16	TM	
24	*TM	Benzo (a) pyrene	1.723	1.457	15	*TM	
25	TM	Dibenz (a,h) anthracene	1.447	1.210	16	TM	
26	TM	Benzo (g,h,i) perylene	1.525	1.321	13	TM	
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			11.2		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0203L021.D Vial: 21
Acq On : 3 Feb 12 22:51 Operator: LF
Sample : 5.0ug/ml PAH 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 6 11:09 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.11	136	2195	2.50000 ppb	-0.01
6) Acenaphthene-D10(IS)	8.10	164	942	2.50000 ppb	-0.01
11) Phenanthrene-D10(IS)	9.84	188	1662	2.50000 ppb	-0.01
15) Chrysene-D12(IS)	12.93	240	2515	2.50000 ppb	0.00
21) Perylene-D12(IS)	14.57	264	1956	2.50000 ppb	0.01
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.47	82	1677	4.26591 ppb	0.00
Spiked Amount 2.000			Recovery	= 213.300%	
7) Surrogate Recovery (FBP)	7.34	172	3932	4.68230 ppb	-0.01
Spiked Amount 2.000			Recovery	= 234.100%	
17) Surrogate Recovery (TPH)	11.70	244	4819	4.44986 ppb	-0.01
Spiked Amount 2.000			Recovery	= 222.500%	
Target Compounds					Qvalue
3) Naphthalene	6.13	128	6366	4.16278 ppb	98
4) 2-Methylnaphthalene	6.93	142	3481	4.43915 ppb	86
5) 1-Methylnaphthalene	7.02	142	4053	4.47767 ppb	85
8) Acenaphthylene	7.94	152	5416	4.32070 ppb	99
9) Acenaphthene	8.13	154	3275	4.56504 ppb	95
10) Fluorene	8.76	166	3787	4.82435 ppb	100
12) Phenanthrene	9.86	178	5026	4.69783 ppb	99
13) Anthracene	9.93	178	5478	5.04289 ppb	96
14) Fluoranthene	11.26	202	8778	4.72960 ppb	99
16) Pyrene	11.51	202	9097	4.10998 ppb	98
18) Benz (a) anthracene	12.93	228	6500	4.45831 ppb	99
19) Chrysene	12.96	228	9323	4.78034 ppb	99
20) Indeno (1,2,3-cd) pyrene	16.12	276	6237	4.12643 ppb	94
22) Benzo (b) fluoranthene	14.12	252	5816	4.22066 ppb	96
23) Benzo (k) fluoranthene	14.15	252	8263	5.79414 ppb	97
24) Benzo (a) pyrene	14.51	252	5699	4.22766 ppb	94
25) Dibenz (a,h) anthracene	16.11	278	4732	4.18055 ppb	97
26) Benzo (g,h,i) perylene	16.58	276	5168	4.33029 ppb	98

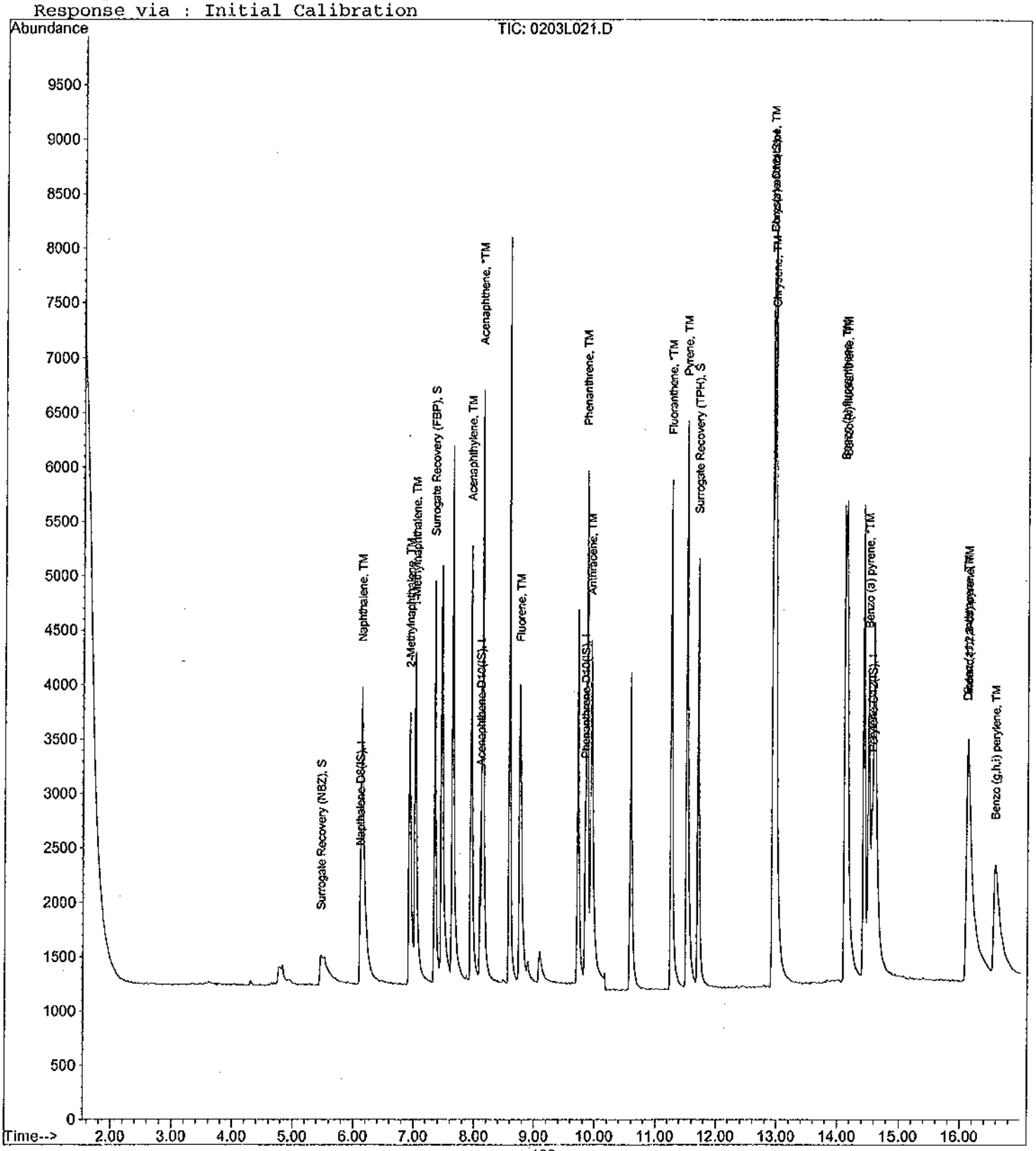
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0203L021.D Vial: 21
Acq On : 3 Feb 12 22:51 Operator: LF
Sample : 5.0ug/ml PAH 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 6 11:09 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Raw Data

APPL, INC.

Method Blank
EPA 8270D SIM

Blank Name/QCG: **120131W-53803 - 163771**
Batch ID: #SIMHC-120131A

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	01/31/12	02/03/12
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/03/12
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/03/12
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/03/12
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/03/12
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/03/12
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/03/12
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/03/12
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	01/31/12	02/03/12
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/03/12
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	01/31/12	02/03/12
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	01/31/12	02/03/12
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	01/31/12	02/03/12
BLANK	SURROGATE: 2-FLUORBIPHENY	68.2	50-110			%	01/31/12	02/03/12
BLANK	SURROGATE: NITROBENZENE-	61.3	40-110			%	01/31/12	02/03/12
BLANK	SURROGATE: TERPHENYL-D14 (	52.9	50-135			%	01/31/12	02/03/12

Quant Method:SIM2.M
Run #:0203L022
Instrument:Linus
Sequence:L111027
Initials:LF

GC SC-Blank-REG MDLs
Printed: 02/09/12 2:31:10 PM

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0203L022.D Vial: 22
Acq On : 3 Feb 12 23:16 Operator: LF
Sample : 120131A BLK 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 6 11:10 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.13	136	1992	2.50000 ppb	0.01
6) Acenaphthene-D10(IS)	8.11	164	806	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.87	188	1749	2.50000 ppb	0.02
15) Chrysene-D12(IS)	12.96	240	2456	2.50000 ppb	0.03
21) Perylene-D12(IS)	14.61	264	1805	2.50000 ppb	0.05
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.50	82	437	1.22491 ppb	0.04
Spiked Amount 2.000			Recovery = 61.250%		
7) Surrogate Recovery (FBP)	7.37	172	980	1.36392 ppb	0.02
Spiked Amount 2.000			Recovery = 68.200%		
17) Surrogate Recovery (TPH)	11.71	244	1118	1.05716 ppb	0.00
Spiked Amount 2.000			Recovery = 52.850%		

Target Compounds Qvalue

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

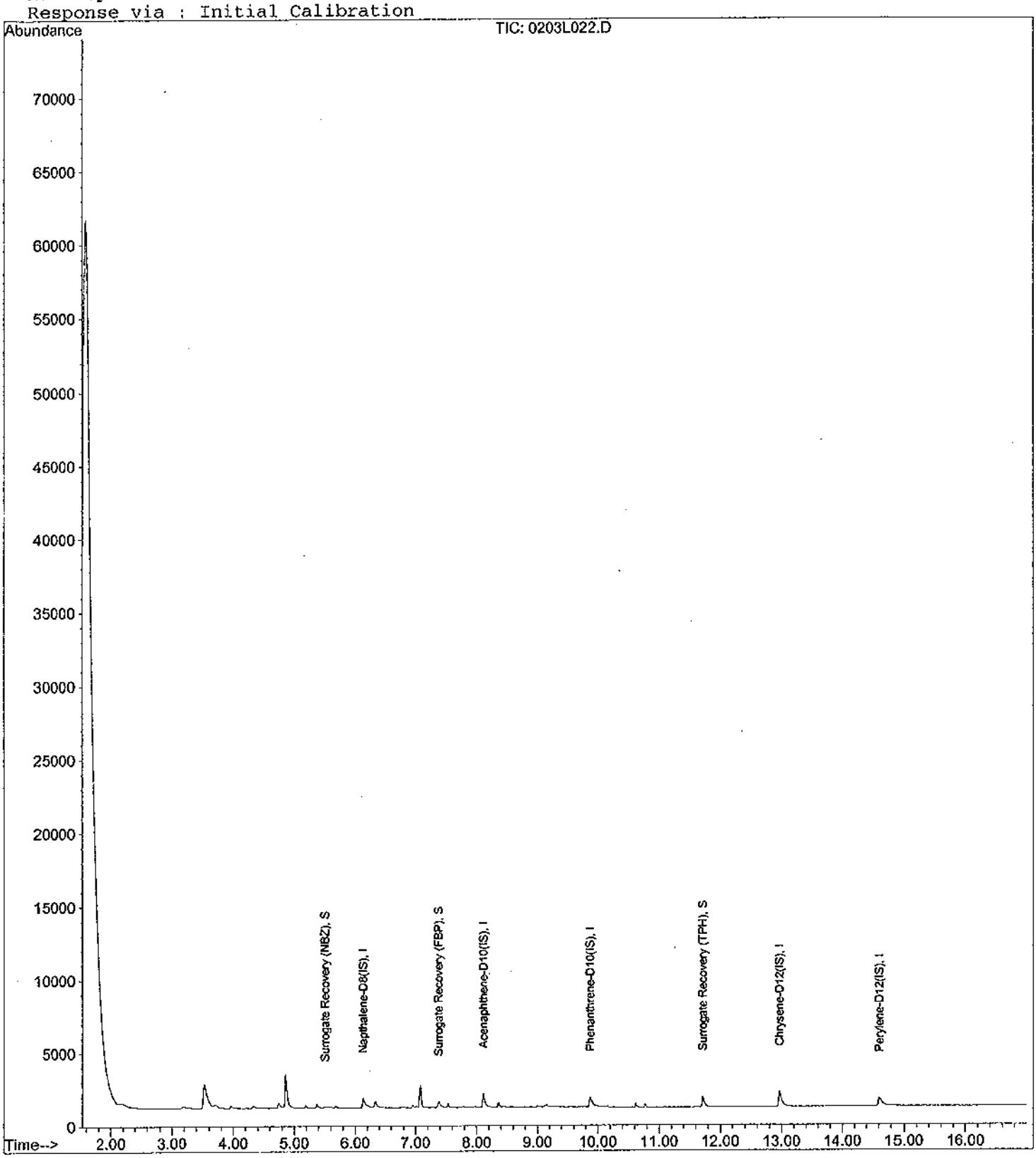
Quantitation Report

Data File : M:\LINUS\DATA\L111027\0203L022.D
Acq On : 3 Feb 12 23:16
Sample : 120131A BLK 1/1000
Misc :

Vial: 22
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Feb 6 11:10 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration



Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: **120131W-53803 LCS - 163771**
Batch ID: #SIMHC-120131A

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	2.46	61.5	45-105
2-METHYLNAPHTHALENE	4.00	2.21	55.3	45-105
ACENAPHTHENE	4.00	2.51	62.7	45-110
ACENAPHTHYLENE	4.00	2.33	58.3	50-105
ANTHRACENE	4.00	3.35	83.8	55-110
BENZO(A)ANTHRACENE	4.00	2.35	58.8	55-110
BENZO(A)PYRENE	4.00	2.44	61.0	55-110
BENZO(B)FLUORANTHENE	4.00	2.45	61.3	45-120
BENZO(GHI)PERYLENE	4.00	2.31	57.8	40-125
BENZO(K)FLUORANTHENE	4.00	3.80	95.0	45-125
CHRYSENE	4.00	3.12	78.0	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.40	60.0	40-125
FLUORANTHENE	4.00	3.15	78.8	55-115
FLUORENE	4.00	2.87	71.8	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.35	58.8	45-125
NAPHTHALENE	4.00	2.28	57.0	40-100
PHENANTHRENE	4.00	2.87	71.8	50-115
PYRENE	4.00	2.80	70.0	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.03	51.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.13	56.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.10	55.0	50-135

Comments: _____

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	01/31/12
Analysis Date :	02/03/12
Instrument :	Linus
Run :	0203L023
Initials :	LF

Printed: 02/09/12 2:31:11 PM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0203L023.D Vial: 23
Acq On : 3 Feb 12 23:41 Operator: LF
Sample : 120131A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 6 11:11 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.12	136	1861	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.10	164	887	2.50000 ppb	-0.01
11) Phenanthrene-D10(IS)	9.85	188	1629	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.94	240	2336	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.57	264	1896	2.50000 ppb	0.01
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.50	82	378	1.13412 ppb	0.04
Spiked Amount 2.000			Recovery	= 56.700%	
7) Surrogate Recovery (FBP)	7.36	172	811	1.02564 ppb	0.01
Spiked Amount 2.000			Recovery	= 51.300%	
17) Surrogate Recovery (TPH)	11.71	244	1104	1.09755 ppb	0.00
Spiked Amount 2.000			Recovery	= 54.900%	
Target Compounds					Qvalue
3) Naphthalene	6.14	128	2960	2.28295 ppb	98
4) 2-Methylnaphthalene	6.94	142	1466	2.20505 ppb	84
5) 1-Methylnaphthalene	7.02	142	1889	2.46148 ppb	85
8) Acenaphthylene	7.95	152	2753	2.33243 ppb	99
9) Acenaphthene	8.13	154	1693	2.50621 ppb	95
10) Fluorene	8.76	166	2124	2.87359 ppb	99
12) Phenanthrene	9.87	178	3011	2.87141 ppb	98
13) Anthracene	9.94	178	3565	3.34832 ppb	96
14) Fluoranthene	11.26	202	5737	3.15373 ppb	95
16) Pyrene	11.53	202	5764	2.80370 ppb	99
18) Benz (a) anthracene	12.93	228	3177	2.34606 ppb	98
19) Chrysene	12.97	228	5654	3.12122 ppb	99
20) Indeno (1,2,3-cd) pyrene	16.15	276	3306	2.35487 ppb	95
22) Benzo (b) fluoranthene	14.13	252	3273	2.45038 ppb	96
23) Benzo (k) fluoranthene	14.16	252	5251	3.79860 ppb	96
24) Benzo (a) pyrene	14.52	252	3193	2.44361 ppb	95
25) Dibenz (a,h) anthracene	16.12	278	2638	2.40433 ppb	98
26) Benzo (g,h,i) perylene	16.60	276	2671	2.30887 ppb	99

$\frac{2960 \times 2.5}{1861 \times 1.742} = 2.28$

LF 2/20/12

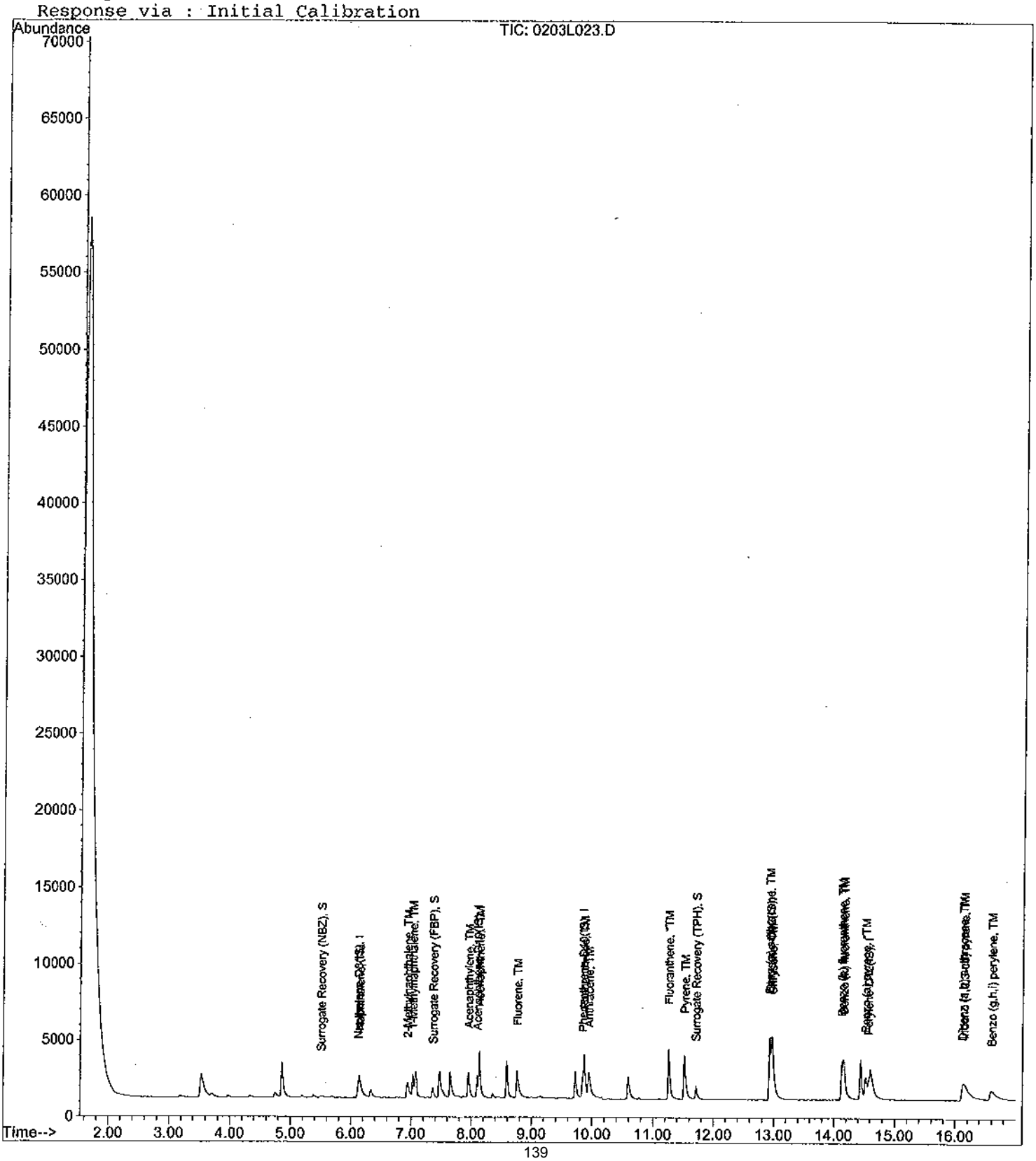
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0203L023.D Vial: 23
Acq On : 3 Feb 12 23:41 Operator: LF
Sample : 120131A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 6 11:11 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration



Matrix Spike Recoveries

EPA 8270D SIM

APPL ID: **120131W-53807 MS - 163771**
Batch ID: #SIMHC-120131A
Sample ID: AY53807
Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	3.92	ND	2.49	2.67	63.5	68.1	45-105	7.0	25
2-METHYLNAPHTHALENE	3.92	ND	2.02	3.08	51.5	78.6	45-105	41.6 #	25
ACENAPHTHENE	3.92	ND	2.28	2.53	58.2	64.5	45-110	10.4	25
ACENAPHTHYLENE	3.92	ND	2.13	2.34	54.3	59.7	50-105	9.4	25
ANTHRACENE	3.92	ND	2.69	3.07	68.6	78.3	55-110	13.2	25
BENZO(A)ANTHRACENE	3.92	ND	2.04	2.16	52.0 #	55.1	55-110	5.7	25
BENZO(A)PYRENE	3.92	ND	2.16	2.24	55.1	57.1	55-110	3.6	25
BENZO(B)FLUORANTHENE	3.92	ND	2.12	2.38	54.1	60.7	45-120	11.6	25
BENZO(GHI)PERYLENE	3.92	ND	2.20	2.35	56.1	59.9	40-125	6.6	25
BENZO(K)FLUORANTHENE	3.92	ND	3.25	3.77	82.9	96.2	45-125	14.8	25
CHRYSENE	3.92	ND	2.37	2.78	60.5	70.9	55-110	15.9	25
DIBENZ(A,H)ANTHRACENE	3.92	ND	2.01	2.24	51.3	57.1	40-125	10.8	25
FLUORANTHENE	3.92	ND	2.64	3.03	67.3	77.3	55-115	13.8	25
FLUORENE	3.92	ND	2.59	2.89	66.1	73.7	50-110	10.9	25
INDENO(1,2,3-CD)PYRENE	3.92	ND	2.10	2.24	53.6	57.1	45-125	6.5	25
NAPHTHALENE	3.92	ND	2.24	2.32	57.1	59.2	40-100	3.5	25
PHENANTHRENE	3.92	ND	2.31	2.73	58.9	69.6	50-115	16.7	25
PYRENE	3.92	ND	2.19	2.53	55.9	64.5	50-130	14.4	25
SURROGATE: 2-FLUORBIPHENYL (S)	1.96	NA	1.05	1.06	53.6	54.1	50-110		
SURROGATE: NITROBENZENE-D5 (S)	1.96	NA	1.45	1.40	74.0	71.4	40-110		
SURROGATE: TERPHENYL-D14 (S)	1.96	NA	1.05	1.14	53.6	58.2	50-135		

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	SIM2.M	SIM2.M
Extraction Date :	01/31/12	01/31/12
Analysis Date :	02/04/12	02/04/12
Instrument :	Linus	Linus
Run :	0203L033	0203L034
Initials :	LF	

Printed: 02/09/12 2:31:12 PM
APPL MSD SCII

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0203L033.D Vial: 33
Acq On : 4 Feb 12 3:50 Operator: LF
Sample : AY53807W07 MS-1 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: Feb 6 11:24 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.12	136	1707	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.10	164	845	2.50000 ppb		-0.01
11) Phenanthrene-D10(IS)	9.85	188	1702	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.94	240	2592	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.57	264	1940	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.52	82	452	1.44950 ppb		0.05
Spiked Amount 1.961			Recovery = 73.899%			
7) Surrogate Recovery (FBP)	7.36	172	806	1.04900 ppb		0.01
Spiked Amount 1.961			Recovery = 53.499%			
17) Surrogate Recovery (TPH)	11.71	244	1199	1.05320 ppb		0.00
Spiked Amount 1.961			Recovery = 53.703%			
Target Compounds						Qvalue
3) Naphthalene	6.14	128	2721	2.24308 ppb		100
4) 2-Methylnaphthalene	6.94	142	1257	2.02084 ppb		87
5) 1-Methylnaphthalene	7.02	142	1790	2.49304 ppb		87
8) Acenaphthylene	7.95	152	2444	2.13093 ppb		99
9) Acenaphthene	8.13	154	1495	2.27755 ppb		92
10) Fluorene	8.76	166	1861	2.59109 ppb		98
12) Phenanthrene	9.87	178	2579	2.30779 ppb		98
13) Anthracene	9.94	178	3057	2.69416 ppb		95
14) Fluoranthene	11.26	202	5120	2.64101 ppb		95
16) Pyrene	11.51	202	5097	2.19058 ppb		92
18) Benz (a) anthracene	12.93	228	3120	2.03570 ppb		97
19) Chrysene	12.96	228	4856	2.36856 ppb		98
20) Indeno (1,2,3-cd) pyrene	16.15	276	3341	2.10270 ppb		93
22) Benzo (b) fluoranthene	14.13	252	2959	2.12259 ppb		97
23) Benzo (k) fluoranthene	14.15	252	4686	3.24802 ppb		99
24) Benzo (a) pyrene	14.52	252	2950	2.16317 ppb	#	94
25) Dibenz (a,h) anthracene	16.13	278	2305	2.01292 ppb		100
26) Benzo (g,h,i) perylene	16.61	276	2660	2.20314 ppb		99

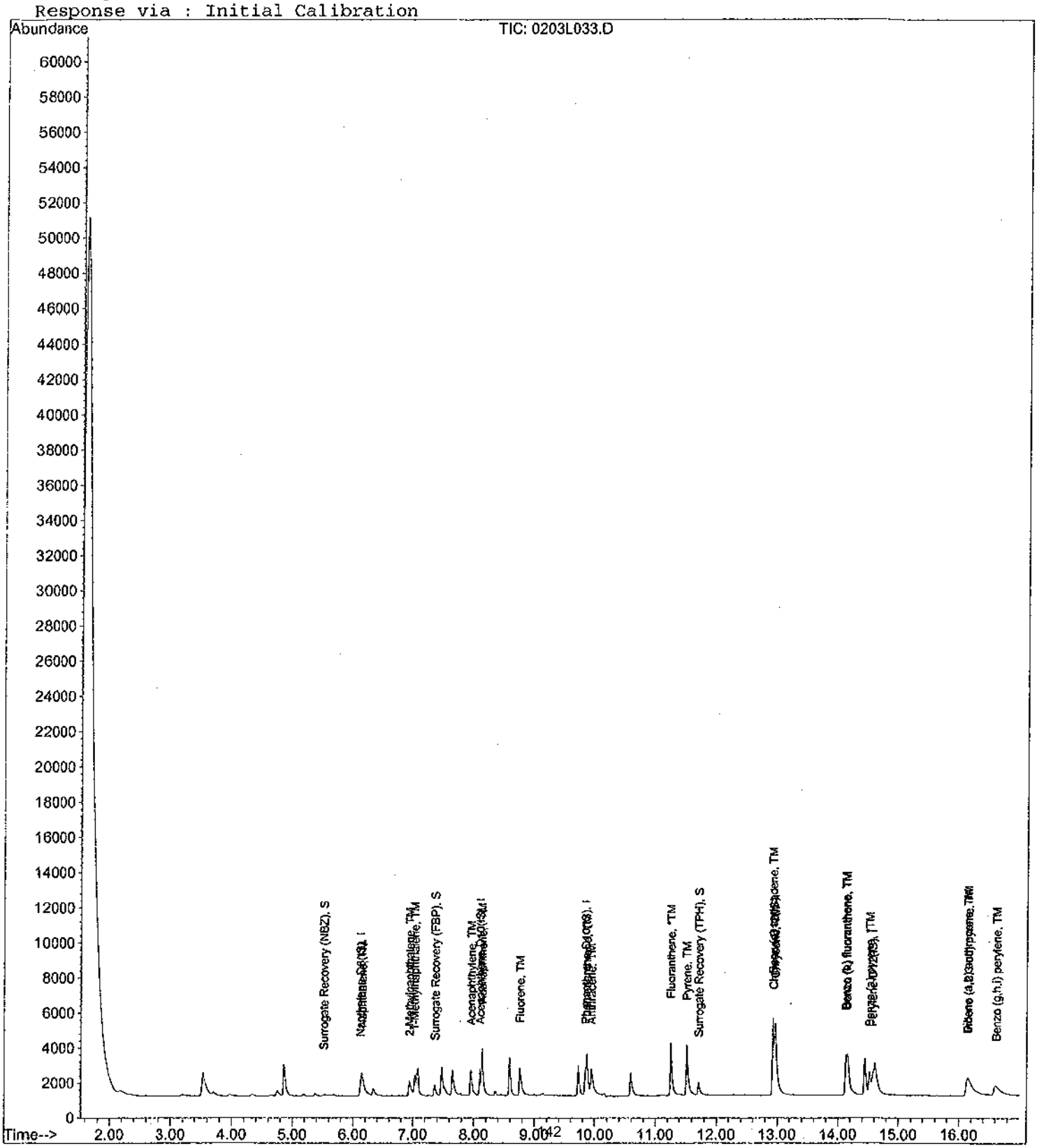
(#) = qualifier out of range (m) = manual integration
0203L033.D SIM2.M Mon Feb 06 11:35:49 2012 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0203L033.D Vial: 33
Acq On : 4 Feb 12 3:50 Operator: LF
Sample : AY53807W07 MS-1 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: Feb 6 11:24 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0203L034.D Vial: 34
Acq On : 4 Feb 12 4:15 Operator: LF
Sample : AY53807W11 MSD-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 6 11:25 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.13	136	1444	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.10	164	709	2.50000 ppb		-0.01
11) Phenanthrene-D10(IS)	9.85	188	1362	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.94	240	2124	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.58	264	1605	2.50000 ppb		0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.53	82	361	1.39590 ppb		0.06
Spiked Amount 2.000			Recovery = 69.800%			
7) Surrogate Recovery (FBP)	7.36	172	668	1.05688 ppb		0.01
Spiked Amount 2.000			Recovery = 52.850%			
17) Surrogate Recovery (TPH)	11.71	244	1045	1.14259 ppb		0.00
Spiked Amount 2.000			Recovery = 57.150%			
Target Compounds						Qvalue
3) Naphthalene	6.14	128	2331	2.31700 ppb		99
4) 2-Methylnaphthalene	7.04	142	1587	3.07638 ppb		91
5) 1-Methylnaphthalene	7.04	142	1587	2.66514 ppb		88
8) Acenaphthylene	7.95	152	2211	2.34352 ppb		99
9) Acenaphthene	8.13	154	1365	2.52796 ppb		93
10) Fluorene	8.76	166	1710	2.89431 ppb		99
12) Phenanthrene	9.87	178	2391	2.72715 ppb		99
13) Anthracene	9.96	178	2735	3.07234 ppb		97
14) Fluoranthene	11.26	202	4614	3.03362 ppb	#	90
16) Pyrene	11.53	202	4729	2.52985 ppb		99
18) Benz (a) anthracene	12.93	228	2659	2.15953 ppb		98
19) Chrysene	12.96	228	4580	2.78069 ppb		98
20) Indeno (1,2,3-cd) pyrene	16.15	276	2855	2.23660 ppb		94
22) Benzo (b) fluoranthene	14.13	252	2694	2.38258 ppb		96
23) Benzo (k) fluoranthene	14.16	252	4413	3.77119 ppb		98
24) Benzo (a) pyrene	14.52	252	2473	2.23573 ppb	#	93
25) Dibenz (a,h) anthracene	16.12	278	2083	2.24270 ppb		99
26) Benzo (g,h,i) perylene	16.60	276	2302	2.35068 ppb		97

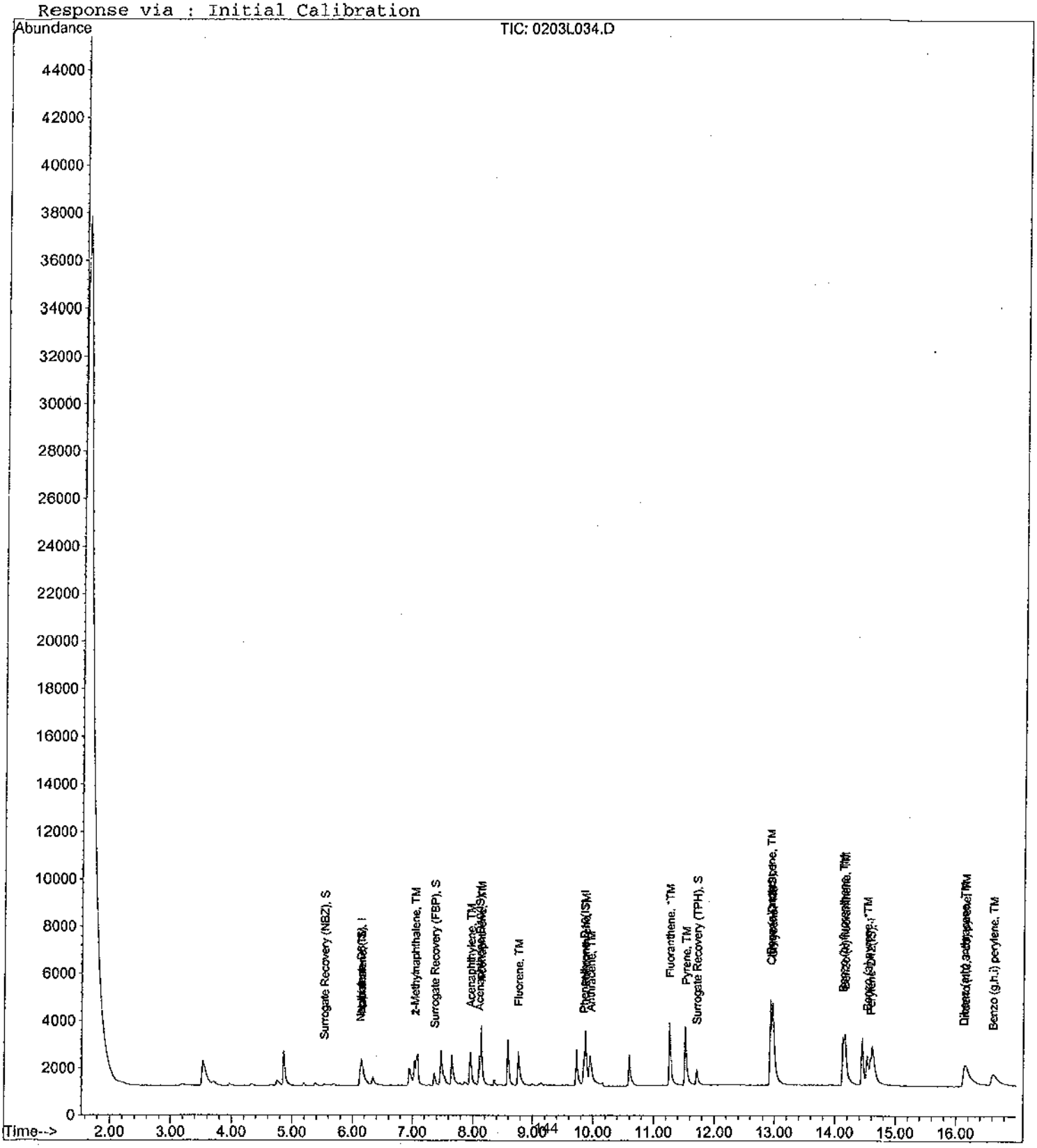
(#) = qualifier out of range (m) = manual integration
0203L034.D SIM2.M Mon Feb 06 11:35:54 2012 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0203L034.D Vial: 34
Acq On : 4 Feb 12 4:15 Operator: LF
Sample : AY53807W11 MSD-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 6 11:25 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Jan 17 09:47:41 2012
Response via : Initial Calibration

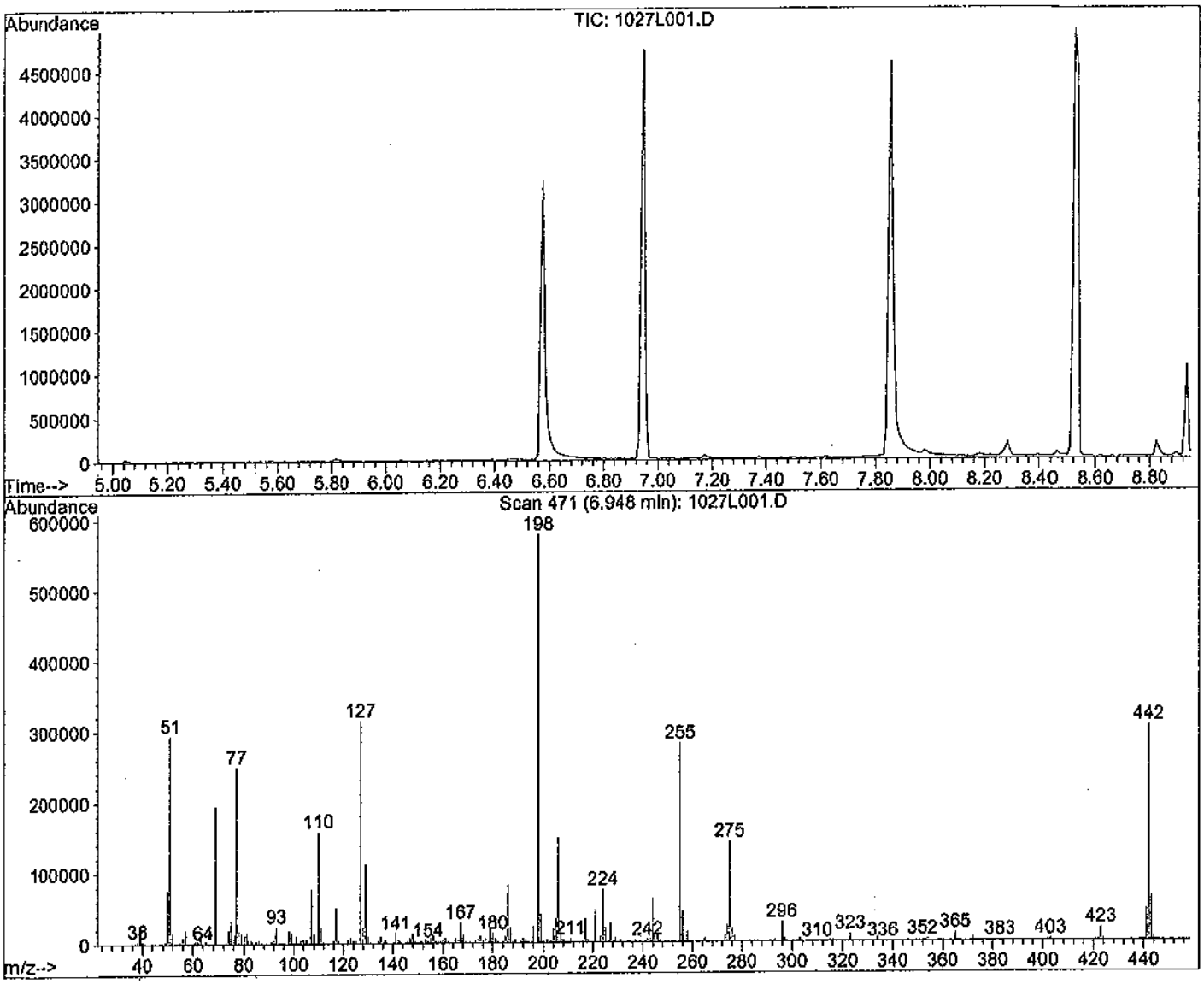


DFTPP

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

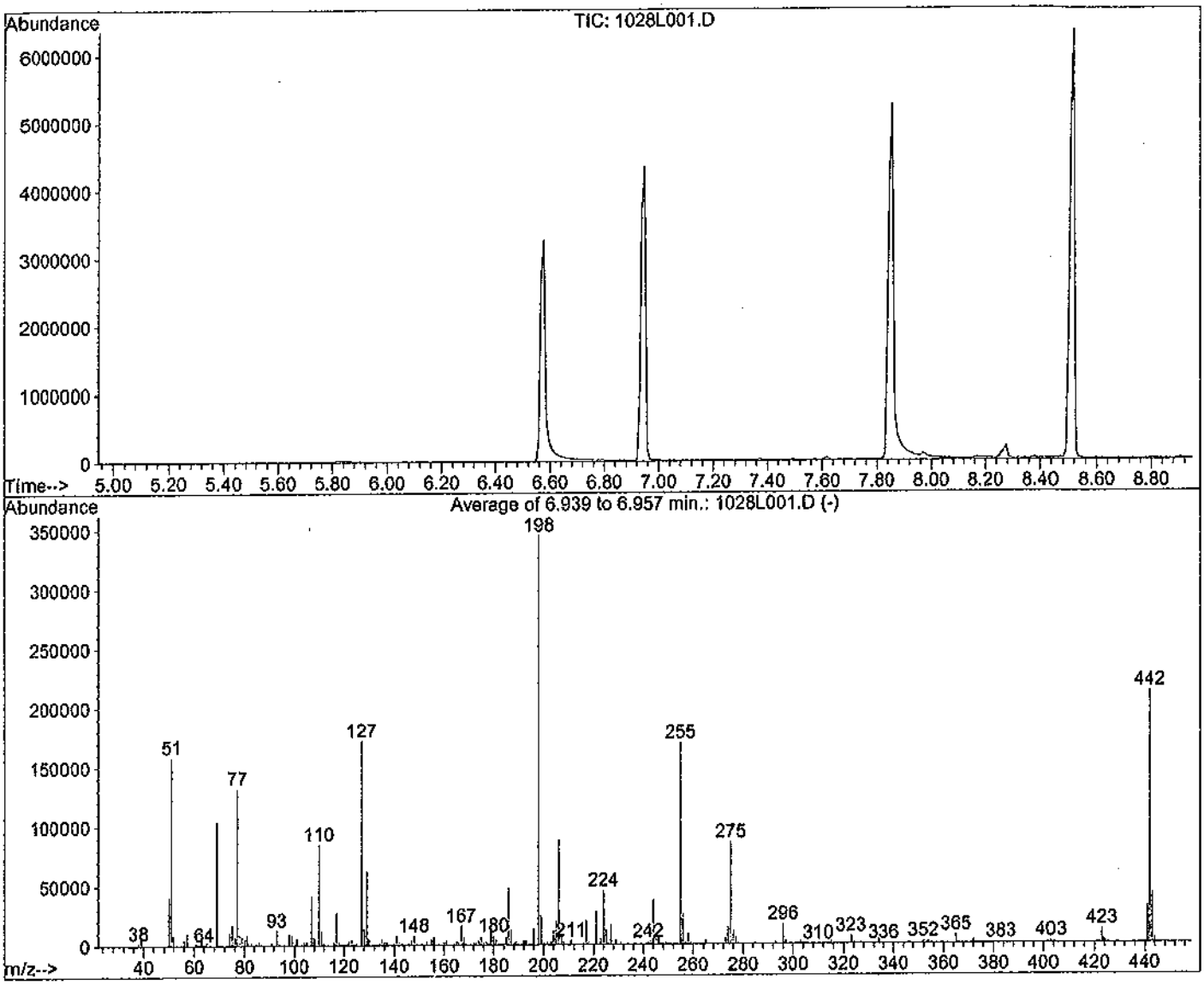
1027L001.D SIM2.M Tue Nov 01 17:33:14 2011

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.

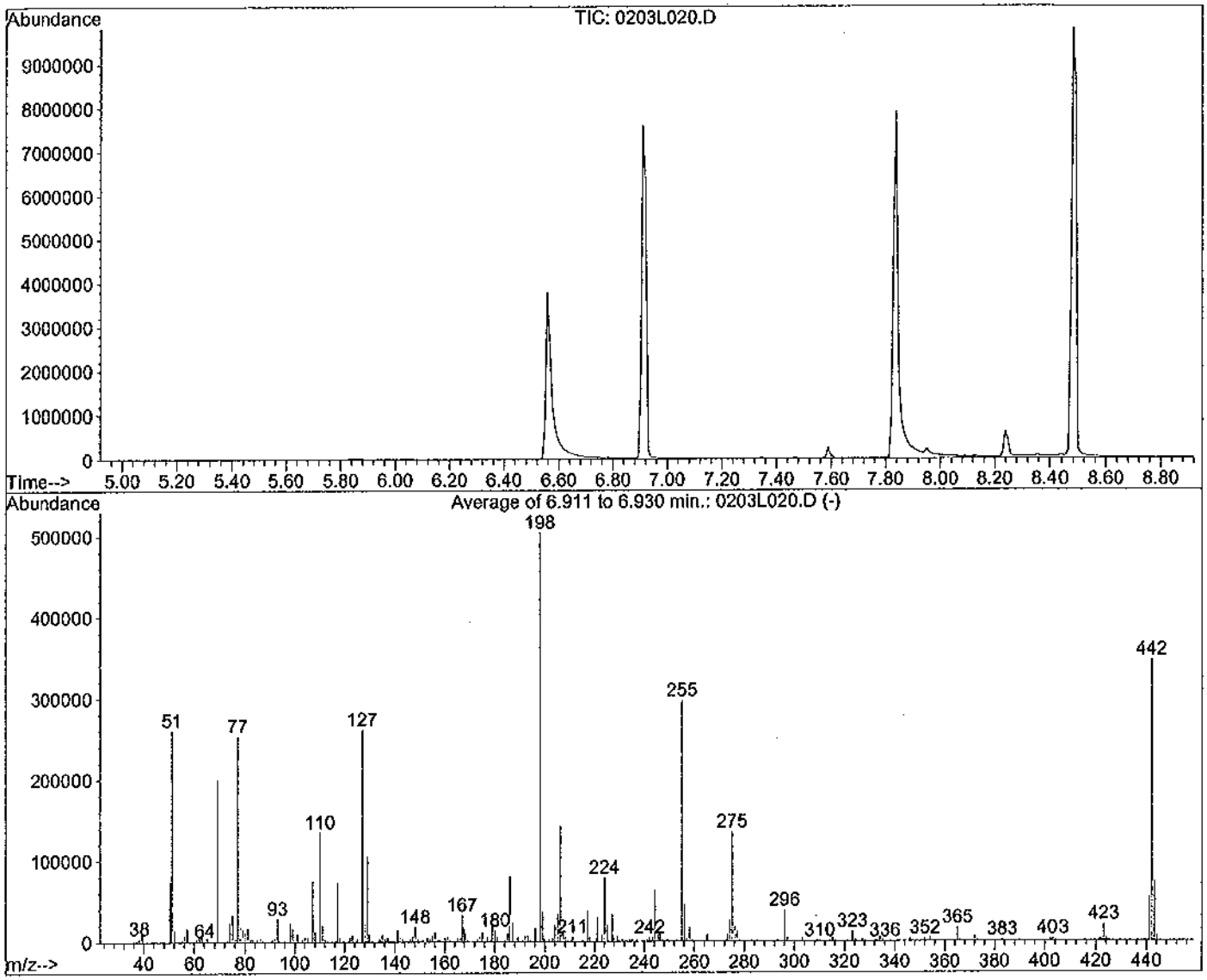
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.8	158326	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	519	PASS
127	198	40	60	49.8	171922	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	345360	PASS
199	198	5	9	7.1	24580	PASS
275	198	10	30	24.8	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

1028L001.D SIM2.M Tue Nov 01 17:33:59 2011

Data File : M:\LINUS\DATA\L111027\0203L020.D
Acq On : 3 Feb 12 22:33
Sample : SVTUNE 10-27-11
Misc :

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

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



Spectrum Information: Average of 6.911 to 6.930 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.6	260517	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	1141	PASS
127	198	40	60	51.7	261087	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	504556	PASS
199	198	5	9	7.2	36369	PASS
275	198	10	30	26.7	134534	PASS
365	198	1	100	3.2	16093	PASS
441	443	0.01	100	73.8	53311	PASS
442	198	40	150	68.4	345291	PASS
443	442	17	23	20.9	72272	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

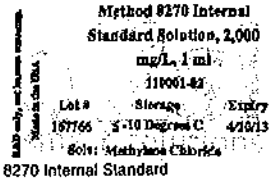
VF 1/25/11

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

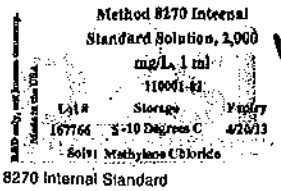
VF 1/25/11



exp 1/25/12

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

VF 1/25/11



exp 1/25/12

8270 Internal Standard
Lot #: 167766 - 28147

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

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
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 STANDA

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

9IM IS exp 1/05/12
1500µL EM Science MC Lot #47080

UF 3/28/12

o2si smart solutions — 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: 6/10/2012

UF exp 3/28/12

Date Opened: 8270 BN:A (200:400) Surrogate Solution
Lot #: 160538 - 27574
Rec: 10/18/10 MFR exp. 06/10/12

UF 3/28/12

UF

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
		Conc.		Date												
Supplier	ID #	µg/mL	Lot #	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 3/28/12

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 4/13/11

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, No 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						
		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

exp 8/31/11

UF 4/20/11

8270D PAH SIM Solution, 200 mg/L, 1 ml
110790-01
Lot # 170253 — Storage: ≤ -10 Degrees C — Expiry: 3/3/13
Solv: Methylene Chloride

UF exp 4/20/12

BA

8270D PAH SIM
Lot #: 170253 - 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
110790-01-SS
Lot # 170256 — Storage: ≤ -10 Degrees C — Expiry: 3/3/13
Solv: Methylene Chloride

UF exp 4/20/12

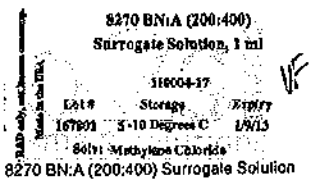
BA

8270D PAH SIM (SS)
Lot #: 170256 - 28487

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 (SS) 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 9/21/11

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	08/20/11	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

PREP DATE:	09-21-11						
SIM 8270 Second Source (5µg/mL)							
Exp:	10-05-11						
				Conc.	Date	CODE:	
Supplier	ID #		Lot #	µg/mL	Code	Exp.Date	µL
	8270D PAH SIM (SS)		170256-28487	200	04/20/11	04-20-12	5
	MeCl2			Lot#47186			195
					Final Volume		200

8270 BN Solution 14-4, 2,000 mg/L, 1 ml

Cat. No: 110391-01
Lot No: 158119
8270BN Solution 14-4
Lot #: 158119 - 28021
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

8270 BN Solution 14-3, 2,000 mg/L, 1 ml

Cat. No: 110392-01
Lot No: 158120
8270BN Solution 14-3
Lot #: 158120 - 28023
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
on
ened: _____

8270 Acid Solution 4-6, 2,000 mg/L, 1 ml

Cat. No: 110393-01
Lot No: 158121
8270B Acid Solution 4-6
Lot #: 158121 - 28025
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
n For Research Use Only
ned: _____

TCL Hazardous Substances Solution 2, 2,000 mg/L, 1 ml

Cat. No: 110394-01
Lot No: 158122
TCL Hzd. Soln. 2
Lot #: 158122 - 28018
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

PAH Solution 17-3, 2,000 mg/L, 1 ml

Cat. No: 116070-02
Lot No: 158123
PAH Solution
Lot #: 158123 - 28027
Rec: 12/16/10 MFR exp. 07/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

8270 Acid Solution 13-4, 2,000 mg/L, 1 ml

Cat. No: 110396-01
Lot No: 158124
8270 Acid Solution 13-4
Lot #: 158124 - 28029
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

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8270 BN Solution 4-21, 2,000 mg/L, 1 ml

o2si

Cat. No: 110395-01
Lot No: 158125

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

8270BN Solution 4-21
Lot #: 158125 - 28031
Rec: 12/16/10 MFR exp. 04/17/13

exp 10/12/12

8270 11 Compound Custom Mix, 200:2,000 mg/L, 1 ml

o2si

Cat. No: 110397-01
Lot No: 158127

Exp: 4/12/2012
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

8270 11 Compound Mix
Lot #: 158127 - 28033
Rec: 12/16/10 MFR exp. 04/12/12

exp 4/12/12

Atrazine Solution, 1,000 mg/L, 1 ml

o2si

Cat. No: 010337-01
Lot No: 158126

Exp: 4/12/2012
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

Atrazine
Lot #: 158126 - 28019
Rec: 12/16/10 MFR exp. 04/12/12

exp 4/12/12

PREP DATE:	10-11-11					
8270C Second Source Stock Standard						
Exp:	04-12-12					
		Conc.		Date	CODE:	F
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
O2SI	110391-01	2000	158119-28021	10-11-11	04-17-13	1000
O2SI	110392-01	2000	158120-28023	10-11-11	04-17-13	1000
O2SI	110393-01	2000	158121-28025	10-11-11	04-17-13	1000
O2SI	110394-01	2000	158122-28018	10-11-11	04-17-13	1000
O2SI	116070-02	2000	158123-28027	10-11-11	04-17-13	1000
O2SI	110395-01	2000	158125-28031	10-11-11	04-17-13	1000
O2SI	110396-01	2000	158124-28029	10-11-11	04-17-13	1000
O2SI	110397-01	2000	158127-28033	10-11-11	04-12-12	1000
O2SI	010337-01	1000	158126-28019	10-11-11	04-12-12	1000
EM Science	MeCl2		47186			1000
					Final Vol	10000

PREP DATE:	10-11-11													
8270 STANDARD CURVE														
Exp:	10-18-11						5	10	20	40	50	60	80	100
		Conc.		Date			µL	µL	µL	µL	µL	µL	µL	µL
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date									
	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

PREP DATE:	10-11-11					
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

GCM-160-1
Lot: CH-2137
Exp: 07/31/2013
Semi-Volatiles GC/MS Tuning Standard
ULTRA 1 mL
For Research Use Only

50µg/mL 15V Tune Mix
1ml of GCM-150-1 opened 10/11/11 into 19mls EM Science MC Lot 47186

VF 10/18/12

Part #: 10001
Lot #: 042910
Laboratory Use Only - See MSDS
Exp: 042913 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in methy
ABSOLUTE STANDARD
CLP Semi-Volatiles Base/Neutrals Mix #1
Lot #: 042910 - 28440
Rec: 3/8/11 MFR exp. 4/29/2013

exp 10/18/12

VF 10/18/12

Part #: 10001
Lot #: 042910
Laboratory Use Only - See MSDS
Exp: 042913 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in m
ABSOLUTE STANDA
Lot #: 042910 - 29085
Rec: 8/4/11 MFR exp. 04/29/13

exp 10/18/12

VF 10/18/12

Part #: 10002
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in methyle
ABSOLUTE STANDARDS
CLP Semi-Volatiles Base/Neutrals Mix #2
Lot #: 073109 - 28448
Rec: 3/8/11 MFR exp. 7/31/2012

exp VF 7/31/12

VF 10/18/12

Part #: 10002
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in met
ABSOLUTE STANDAF
CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 29090
Rec: 8/4/11 MFR exp. 07/31/12

exp 7/31/12

VF 10/18/12

Part #: 10004
Lot #: 101509
Laboratory Use Only - See MSDS
Exp: 101514 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in methyl
ABSOLUTE STANDARDS
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 28453
Rec: 3/8/11 MFR exp. 10/15/201

exp 10/18/12

VF 10/18/12

Part #: 10004
Lot #: 101509
Laboratory Use Only - See MSDS
Exp: 101514 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in meth
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 29095
Rec: 8/4/11 MFR exp. 10/15/14

exp 10/18/12

VF 10/18/12

Part #: 10005
Lot #: 061209
Laboratory Use Only - See MSDS
Exp: 061214 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
8 components
2000 ug/mL in methy
ABSOLUTE STANDARD
CLP Semi-Volatiles Toxic Substances #2
Lot #: 061209 - 28458
Rec: 3/8/11 MFR exp. 6/12/2014

exp 10/18/12

VF 10/18/12

Part #: 10005
Lot #: 121208
Laboratory Use Only - See MSDS
Exp: 121213 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
8 components
2000 ug/mL in met
CLP Semi-Volatiles Toxic Substances #2
Lot #: 121208 - 29100
Rec: 8/4/11 MFR exp. 12/12/13

exp 10/18/12

Part #: 10006
Lot #: 120810
Laboratory Use Only - See MSDS
Exp: 120813 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in methan
ABSOLUTE STANDARDS
CLP Semi-Volatiles - Benzidines
Lot #: 120810 - 28462
Rec: 3/8/11 MFR exp. 12/8/2013

Part #: 10006
Lot #: 071211
Laboratory Use Only - See MSDS
Exp: 071214 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 componente
2000 ug/mL in meti
ABSOLUTE STANDAR
Lot #: 071211 - 29105
Rec: 8/4/11 MFR exp. 07/12/14

Part #: 10007
Lot #: 100909
Laboratory Use Only - See MSDS
Exp: 100914 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components
2000 ug/mL in methy
ABSOLUTE STANDAR
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 28469
Rec: 3/8/11 MFR exp. 10/9/2014

Part #: 10007
Lot #: 100909
Laboratory Use Only - See MSDS
Exp: 100914 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 componente
2000 ug/mL in meti
ABSOLUTE STANDAR
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 29110
Rec: 8/4/11 MFR exp. 10/09/14

Part #: 10018
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Pher
2000 ug/mL in methyl
ABSOLUTE STANDARD
CLP Semi-Volatiles Mix #8 - Phenols
Lot #: 073109 - 28410
Rec: 3/8/11 MFR exp. 7/31/2014

Part #: 10018
Lot #: 062111
Laboratory Use Only - See MSDS
Exp: 062116 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 componente - Ph
2000 ug/mL in meth
ABSOLUTE STANDARI
EPA Method 8270A - Analytes Mix #8
Lot #: 062111 - 29115
Rec: 8/4/11 MFR exp. 06/21/16

Part #: 70023
Lot #: 080310
Laboratory Use Only - See MSDS
Exp: 080315 Storage 4 °C
Atrazine
1000 ug/mL in aceto
ABSOLUTE STANDARI
Atrazine
Lot #: 080310 - 28416
Rec: 3/8/11 MFR exp. 8/13/2015

Part #: 70023
Lot #: 031611
Laboratory Use Only - See MSDS
Exp: 031616 Storage 4 °C
Atrazine
1000 ug/mL in ace
ABSOLUTE STANDA
Atrazine
Lot #: 031611 - 29120
Rec: 8/4/11 MFR exp. 03/16/16

exp 10/18/12
exp 10/18/12
exp 10/18/12
exp 10/18/12
exp 10/18/12
exp 10/18/12
exp 10/18/12

10/18/11

Part #: 82705
Lot #: 121010
Laboratory Use Only - See MSDS
Exp: 121013 Storage 4 °C
EPA Method 8270A - Mix #11
4 components
2000 ug/mL in aceto
EPA Method 8270A - Mix #18
Lot #: 121010 - 28428
Rec: 3/8/11 MFR exp. 12/10/201
ABSOLUTE STANDAR

exp 10/18/12

10/18/11

Part #: 82705
Lot #: 041911
Laboratory Use Only - See MSDS
Exp: 041914 Storage 4 °C
EPA Method 8270A -
4 components
2000 ug/mL in aceto
Lot #: 041911 - 29125
Rec: 8/4/11 MFR exp. 04/19/14
ABSOLUTE STANDAR

exp 10/18/12

10/18/11

Part #: 94552
Lot #: 030411
Laboratory Use Only - See MSDS
Exp: 030414 Storage 4 °C
Semi-Volatile Standard
11 components
Varied ug/mL in met
Semi-Volatile Standard
Lot #: 030411 - 28423
Rec: 3/8/11 MFR exp. 3/4/2014
ABSOLUTE STANDARI

exp 10/18/12

10/18/11

Part #: 94552
Lot #: 030411
Laboratory Use Only - See MSDS
Exp: 030414 Storage 4 °C
Semi-Volatile Standa
11 components
Varied ug/mL in met
Semi-Volatile Standard
Lot #: 030411 - 29130
Rec: 8/4/11 MFR exp. 03/04/14
ABSOLUTE STANDARD

exp 10/18/12

10/18/11

PREP DATE:	10-18-11					
8270C Stock/Spike Standard						
Exp:	04-18-12					
		Conc.		Date	CODE:	F
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
Absolute	10001	2000	042910-28440	10/18/11	04-29-13	1000
Absolute	10001	2000	042910-29085	10/18/11	04-29-13	1000
Absolute	10002	2000	073109-28446	10/18/11	07-31-12	1000
Absolute	10002	2000	073109-29090	10/18/11	07-31-12	1000
Absolute	10004	2000	101509-28453	10/18/11	10-15-14	1000
Absolute	10004	2000	101509-29095	10/18/11	10-15-14	1000
Absolute	10005	2000	061209-28458	10/18/11	06-12-14	1000
Absolute	10005	2000	121208-29100	10/18/11	12-12-13	1000
Absolute	10006	2000	120810-28462	10/18/11	12-08-13	1000
Absolute	10006	2000	071211-29105	10/18/11	07-12-14	1000
Absolute	10007	2000	100909-28469	10/18/11	10-09-14	1000
Absolute	10007	2000	100909-29110	10/18/11	10-09-14	1000
Absolute	10018	2000	073109-28410	10/18/11	07-31-14	1000
Absolute	10018	2000	062111-29115	10/18/11	06-21-16	1000
Absolute	70023	1000	080310-28416	10/18/11	08-03-15	1000
Absolute	70023	1000	031611-29120	10/18/11	03-16-16	1000
Absolute	82705	2000	121010-28428	10/18/11	12-10-13	1000
Absolute	82705	2000	041911-29125	10/18/11	04-19-14	1000
Absolute	94552	2000	030411-28423	10/18/11	03-04-14	1000
Absolute	94552	2000	030411-29130	10/18/11	03-04-14	1000
					Final Vol	20000

LF 10/18/11

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
110001-82
Lot # 167766 Storage 5-10 Degrees C Expiry 4/20/13
Solv: Methylene Chloride
8270 Internal Standard
Lot #: 167766 - 28149
Rec: 1/20/11 MFR exp. 04/20/13

LF

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
110001-82
Lot # 167766 Storage 5-10 Degrees C Expiry 4/20/13
Solv: Methylene Chloride
8270 Internal Standard
Lot #: 167766 - 28150
Rec: 1/20/11 MFR exp. 04/20/13

LF

exp 10/18/12

LF 10/27/11

GCM-150-1
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 sof Em Science MC lot# 47080.

LF 10/27/11

PREP DATE:	10-27-11												
8270 SIM STANDARD CURVE													
						0.10	0.20	0.50	1.00	5.00	10.00	50.00	100.00
		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

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

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

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

LF

_SEP004S

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	120131A	Extraction Method	SEP004S	Units	mL

Spiked ID 1	SIM Spike 178987-29582		Surrogate ID 1	8270 SIM Surrogate 177982-29475	
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:	02/09/12 0:00	

pH1	2	01/31/12 3:45:00 PM	Water Bath Temp Criteria	80 °C
pH2	14	02/01/12 5:00:00 PM		
pH3				

Spiked By: DL **Date** 01/31/12 **Witnessed By:** IC **Date** 01/31/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	120131A Blk				0.025	1	1000	1	2/1	01/31/12 15:37	
						equip	E-WB7				
2	120131A LCS-1		0.025	1	0.025	1	1000	1	2/1	01/31/12 15:37	
						equip	E-WB7				
3	AY53753	AY53753W05			0.025	1	1050	1	2/1	01/31/12 15:37	66811-2 WEEK RUSH -- Amber Liter
						equip	E-WB7				
4	AY53756	AY53756W07			0.025	1	1050	1	2/1	01/31/12 15:37	66811-2 WEEK RUSH -- Amber Liter
						equip	E-WB7				
5	AY53802	AY53802W07			0.025	1	1050	1	2/1	01/31/12 15:37	66828-2 WEEK RUSH -- Amber Liter
						equip	E-WB7				
6	AY53803 MS-1	AY53803W13	0.025	1	0.025	1	1050	1	2/1	01/31/12 15:37	66828-2 WEEK RUSH -- Amber Liter
						equip	E-WB7				
7	AY53803 MSD-1	AY53803W18	0.025	1	0.025	1	1050	1	2/1	01/31/12 15:37	66828-2 WEEK RUSH -- Amber Liter
						equip	E-WB7				
8	AY53803	AY53803W17			0.025	1	1050	1	2/1	01/31/12 15:37	66828-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
9	AY53804	AY53804W07			0.025	1	1050	1	2/1	01/31/12 15:37	66828-2 WEEK RUSH -- Amber Liter
						equip	E-WB7				
10	AY53805	AY53805W07			0.025	1	1050	1	2/1	01/31/12 15:37	66828-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
11	AY53806	AY53806W07			0.025	1	1050	1	2/1	01/31/12 15:37	66828-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
12	AY53807 MS-1	AY53807W07	0.025	1	0.025	1	1020	1	2/1	01/31/12 15:37	66826-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
13	AY53807 MSD-1	AY53807W11	0.025	1	0.025	1	1000	1	2/1	01/31/12 15:37	66826-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				

Solvent and Lot#	
MC	BMD51257
Na2SO4	2351C512
10N NaOH	11/28/11
1+1 Acid	09/05/11
A. Na2SO4	10/31/11

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	IF
Date	2/1/12
Time	600
Refrigerator	Hlm

	Technician's Initials
Scanned By	IC
Sample Preparation	IC
Extraction	IC
Concentration	JL

Modified	01/31/12 2:01:02 PM

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Reviewed By: DRA **Date** 02/02/12

_SEP004S

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	120131A	Extraction Method	SEP004S	Units	mL

Spiked ID 1	SIM Spike 178987-29582		Surrogate ID 1	8270 SIM Surrogate 177982-29475	
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:	02/09/12 0:00	

pH1	2	01/31/12 3:45:00 PM	Water Bath Temp Criteria	80 °C
pH2	14	02/01/12 5:00:00 PM		
pH3				

Spiked By: DL **Date** 01/31/12 **Witnessed By:** IC **Date** 01/31/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
14	AY53807	AY53807W09			0.025	1	1020	1	2/1	01/31/12 15:37	66826-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
15	AY53808	AY53808W06			0.025	1	1050	1	2/1	01/31/12 15:37	66826-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
16	AY53861	AY53861W04			0.025	1	1050	1	2/1	01/31/12 15:37	66823-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
17	AY53862	AY53862W02			0.025	1	1050	1	2/1	01/31/12 15:37	66823-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
18	AY53863	AY53863W04			0.025	1	1050	1	2/1	01/31/12 15:37	66823-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
19	AY53974	AY53974W03			0.025	1	1050	1	2/1	01/31/12 15:37	66838-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				

Solvent and Lot#	
MC	EMD51257
Na2SO4	2351C512
10N NaOH	11/28/11
1+1 Acid	09/05/11
A. Na2SO4	10/31/11

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	
Date	2/3/12
Time	
Refrigerator	

	Technician's Initials
Scanned By	IC
Sample Preparation	IC
Extraction	IC
Concentration	JL

Modified	01/31/12 2:01:02 PM

Reviewed By: DRA **Date** 02/02/12

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	20	0203L020.D	1	SVTUNE 10-27-11		3 Feb 12 22:33
13	21	0203L021.D	1	5.0ug/ml PAH 10-27-11		3 Feb 12 22:51
14	22	0203L022.D	1	120131A BLK 1/1000		3 Feb 12 23:16
15	23	0203L023.D	1	120131A LCS-1 1/1000		3 Feb 12 23:41
16	33	0203L033.D	0.98039	AY53807W07 MS-1 1/1020		4 Feb 12 3:50
17	34	0203L034.D	1	AY53807W11 MSD-1 1/1000		4 Feb 12 4:15
18	35	0203L035.D	0.98039	AY53807W09 1/1020		4 Feb 12 4:39
19	36	0203L036.D	0.95238	AY53808W06 1/1050		4 Feb 12 5:04

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: **120127W-53807 - 163743**
Batch ID: #86RHB-120127AC

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	01/27/12	01/27/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/27/12	01/27/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/27/12	01/27/12
BLANK	1,2,4-TRICHLOROBENZENE	0.28 J	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	01/27/12	01/27/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	1,3-DICHLOROBENZENE	0.12 J	1.0	0.22	0.11	ug/L	01/27/12	01/27/12
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	01/27/12	01/27/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/27/12	01/27/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/27/12	01/27/12
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/27/12	01/27/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/27/12	01/27/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/27/12	01/27/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/27/12	01/27/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/27/12	01/27/12
BLANK	HEXACHLOROBUTADIENE	0.26 J	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C09
Instrument: Chico
Sequence: C120125
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/10/12 9:17:53 AM

Method Blank

EPA 8260B VOCs + Gas Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **120127W-53807 - 163743**
Batch ID: #86RHB-120127AC

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	01/27/12	01/27/12
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	01/27/12	01/27/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/27/12	01/27/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	SURROGATE: 1,2-DICHLOROET	106	70-120			%	01/27/12	01/27/12
BLANK	SURROGATE: 4-BROMOFLUORO	99.1	75-120			%	01/27/12	01/27/12
BLANK	SURROGATE: DIBROMOFLUOR	102	85-115			%	01/27/12	01/27/12
BLANK	SURROGATE: TOLUENE-D8 (S)	103	85-120			%	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C09
Instrument: Chico
Sequence: C120125
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/10/12 9:17:54 AM

Method Blank

EPA 8260B VOCS + GAS WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **120127W-53809 - 163817**
Batch ID: #86RHB-120127AC1

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/27/12	01/27/12
BLANK	SURROGATE: 1,2-DICHLOROET	106	70-120			%	01/27/12	01/27/12
BLANK	SURROGATE: 4-BROMOFLUORO	99.1	75-120			%	01/27/12	01/27/12
BLANK	SURROGATE: DIBROMOFLUOR	102	85-115			%	01/27/12	01/27/12
BLANK	SURROGATE: TOLUENE-D8 (S)	103	85-120			%	01/27/12	01/27/12

Quant Method: CALLW.M
Run #: 0127C09
Instrument: Chico
Sequence: C120125
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/10/12 11:20:31 AM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120131W-53809 - 163745**
Batch ID: #86RHB-120131AT

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	01/31/12	01/31/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/31/12	01/31/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/31/12	01/31/12
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	01/31/12	01/31/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	01/31/12	01/31/12
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	01/31/12	01/31/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/31/12	01/31/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/31/12	01/31/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/31/12	01/31/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/31/12	01/31/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/31/12	01/31/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/31/12	01/31/12
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/31/12	01/31/12
BLANK	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	01/31/12	01/31/12

Quant Method: TALLW.M
Run #: 0131T24
Instrument: Thor
Sequence: T120131
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/10/12 11:22:35 AM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120131W-53809 - 163745**

Batch ID: #86RHB-120131AT

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	01/31/12	01/31/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/31/12	01/31/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	SURROGATE: 1,2-DICHLOROET	96.9	70-120			%	01/31/12	01/31/12
BLANK	SURROGATE: 4-BROMOFLUORO	99.3	75-120			%	01/31/12	01/31/12
BLANK	SURROGATE: DIBROMOFLUOR	98.9	85-115			%	01/31/12	01/31/12
BLANK	SURROGATE: TOLUENE-D8 (S)	100	85-120			%	01/31/12	01/31/12

Quant Method: TALLW.M
Run #: 0131T24
Instrument: Thor
Sequence: T120131
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/10/12 11:22:35 AM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 01/27/12

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
120127AC-LCS	Lab Control Spike	70-120	101		75-120	96.0	
120127AC-BLK	Blank	70-120	106		75-120	99.1	
AY53807	ES060	70-120	102		75-120	91.4	
AY53808	ES061	70-120	101		75-120	94.5	
AY53807-MS	Matrix Spike	70-120	95.8		75-120	104	

Comments: Batch: #86RHB-120127AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 01/27/12

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120127AC-LCS	Lab Control Spike	85-115	104		85-120	101	
120127AC-BLK	Blank	85-115	102		85-120	103	
AY53807	ES060	85-115	100		85-120	101	
AY53808	ES061	85-115	98.2		85-120	102	
AY53807-MS	Matrix Spike	85-115	101		85-120	97.5	

Comments: Batch: #86RHB-120127AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 01/27/12

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
120127AC1-LCS	Lab Control Spike	70-120	101		75-120	96.0	
120127AC1-BLK	Blank	70-120	106		75-120	99.1	
AY53809	TRIP BLANK	70-120	109		75-120	98.6	

Comments: Batch: #86RHB-120127AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 01/27/12

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120127AC1-LCS	Lab Control Spike	85-115	104		85-120	101	
120127AC1-BLK	Blank	85-115	102		85-120	103	
AY53809	TRIP BLANK	85-115	107		85-120	102	

Comments: Batch: #86RHB-120127AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 01/31/12

Matrix: WATER Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120131AT-LCS	Lab Control Spike	70-120	99.0		75-120	103	
120131AT-BLK	Blank	70-120	96.9		75-120	99.3	
AY53809	TRIP BLANK	70-120	98.6		75-120	99.9	

Comments: Batch: #86RHB-120131AT

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 01/31/12

Matrix: WATER Instrument: Thor

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120131AT-LCS	Lab Control Spike	85-115	98.0		85-120	97.8	
120131AT-BLK	Blank	85-115	98.9		85-120	100	
AY53809	TRIP BLANK	85-115	99.3		85-120	101	

Comments: Batch: #86RHB-120131AT

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120127W-53807 LCS - 163743**
Batch ID: #86RHB-120127AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	11.0	110	80-130
1,1,1-TRICHLOROETHANE	10.00	11.1	111	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.9	109	65-130
1,1,2-TRICHLOROETHANE	10.00	11.9	119	75-125
1,1-DICHLOROETHANE	10.00	11.6	116	70-135
1,1-DICHLOROETHENE	10.00	10.5	105	70-130
1,2,3-TRICHLOROPROPANE	10.00	8.84	88.4	75-125
1,2,4-TRICHLOROBENZENE	10.00	11.7	117	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	10.4	104	50-130
1,2-DIBROMOETHANE	10.00	10.3	103	70-130
1,2-DICHLOROBENZENE	10.00	10.6	106	70-120
1,2-DICHLOROETHANE	10.00	10.6	106	70-130
1,2-DICHLOROPROPANE	10.00	11.1	111	75-125
1,3-DICHLOROBENZENE	10.00	11.0	110	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	21.5	108	70-130
1,4-DICHLOROBENZENE	10.00	10.7	107	75-125
2-BUTANONE	10.00	9.46	94.6	30-150
4-METHYL-2-PENTANONE	10.00	9.44	94.4	60-135
ACETONE	10.00	10.7	107	40-140
BENZENE	10.00	11.1	111	80-120
BROMODICHLOROMETHANE	10.00	11.4	114	75-120
BROMOFORM	10.00	9.00	90.0	70-130
BROMOMETHANE	10.00	10.7	107	30-145
CARBON TETRACHLORIDE	10.00	10.4	104	65-140
CHLOROBENZENE	10.00	11.0	110	80-120
CHLORODIBROMOMETHANE	10.00	10.8	108	60-135

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	01/27/12
Analysis Date :	01/27/12
Instrument :	Chico
Run :	0127C03
Initials :	SV

Printed: 02/10/12 9:17:40 AM

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120127W-53807 LCS - 163743**
Batch ID: #86RHB-120127AC

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	10.9	109	60-135
CHLOROFORM	10.00	11.5	115	65-135
CHLOROMETHANE	10.00	8.70	87.0	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.6	106	70-125
ETHYLBENZENE	10.00	11.0	110	75-125
GASOLINE	300	337	112	75-125
HEXACHLOROBUTADIENE	10.00	11.1	111	50-140
METHYL TERT-BUTYL ETHER	10.00	9.95	99.5	65-125
METHYLENE CHLORIDE	10.00	11.0	110	55-140
STYRENE	10.00	11.2	112	65-135
TETRACHLOROETHENE	10.00	11.6	116	45-150
TOLUENE	10.00	11.6	116	75-120
TRANS-1,2-DICHLOROETHENE	10.00	11.7	117	60-140
TRICHLOROETHENE	10.00	11.7	117	70-125
VINYL CHLORIDE	10.00	11.7	117	50-145
XYLENES (TOTAL)	30.0	34.2	114	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	22.9	23.2	101	70-120
SURROGATE: 4-BROMOFLUOROBENZE	26.8	25.7	96.0	75-120
SURROGATE: DIBROMOFLUOROMETH	24.1	25.2	104	85-115
SURROGATE: TOLUENE-D8 (S)	24.8	25.1	101	85-120

Comments:

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	01/27/12
Analysis Date :	01/27/12
Instrument :	Chico
Run :	0127C03
Initials :	SV

Printed: 02/10/12 9:17:40 AM

APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B VOCS + GAS WATER

APPL ID: **120127W-53809 LCS - 163817**
Batch ID: #86RHB-120127AC1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
ACETONE	10.00	10.7	107	40-140
SURROGATE: 1,2-DICHLOROETHANE-D	22.9	23.2	101	70-120
SURROGATE: 4-BROMOFLUOROBENZE	26.8	25.7	96.0	75-120
SURROGATE: DIBROMOFLUOROMETH	24.1	25.2	104	85-115
SURROGATE: TOLUENE-D8 (S)	24.8	25.1	101	85-120

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	01/27/12
Analysis Date :	01/27/12
Instrument :	Chico
Run :	0127C03
Initials :	ARS

Printed: 02/10/12 11:20:22 AM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120131W-53809 LCS - 163745**
Batch ID: #86RHB-120131AT

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	10.0	100	80-130
1,1,1-TRICHLOROETHANE	10.00	9.94	99.4	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.1	101	65-130
1,1,2-TRICHLOROETHANE	10.00	10.1	101	75-125
1,1-DICHLOROETHANE	10.00	9.88	98.8	70-135
1,1-DICHLOROETHENE	10.00	10.2	102	70-130
1,2,3-TRICHLOROPROPANE	10.00	9.69	96.9	75-125
1,2,4-TRICHLOROBENZENE	10.00	9.71	97.1	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.48	84.8	50-130
1,2-DIBROMOETHANE	10.00	9.83	98.3	70-130
1,2-DICHLOROBENZENE	10.00	9.58	95.8	70-120
1,2-DICHLOROETHANE	10.00	9.93	99.3	70-130
1,2-DICHLOROPROPANE	10.00	9.88	98.8	75-125
1,3-DICHLOROBENZENE	10.00	9.62	96.2	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	20.0	100	70-130
1,4-DICHLOROBENZENE	10.00	9.55	95.5	75-125
2-BUTANONE	10.00	11.1	111	30-150
4-METHYL-2-PENTANONE	10.00	10.2	102	60-135
BENZENE	10.00	9.84	98.4	80-120
BROMODICHLOROMETHANE	10.00	9.88	98.8	75-120
BROMOFORM	10.00	10.5	105	70-130
BROMOMETHANE	10.00	8.46	84.6	30-145
CARBON TETRACHLORIDE	10.00	10.3	103	65-140
CHLOROBENZENE	10.00	9.84	98.4	80-120
CHLORODIBROMOMETHANE	10.00	9.84	98.4	60-135
CHLOROETHANE	10.00	10.1	101	60-135

Comments:

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	01/31/12
Analysis Date :	01/31/12
Instrument :	Thor
Run :	0131T17
Initials :	SV

Printed: 02/10/12 11:21:54 AM

APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: **120131W-53809 LCS - 163745**
Batch ID: #86RHB-120131AT

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROFORM	10.00	9.81	98.1	65-135
CHLOROMETHANE	10.00	9.62	96.2	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.2	102	70-125
ETHYLBENZENE	10.00	9.97	99.7	75-125
GASOLINE	300	337	112	75-125
HEXACHLOROBUTADIENE	10.00	9.58	95.8	50-140
METHYL TERT-BUTYL ETHER	10.00	10.0	100	65-125
METHYLENE CHLORIDE	10.00	10.1	101	55-140
STYRENE	10.00	10.1	101	65-135
TETRACHLOROETHENE	10.00	10.0	100	45-150
TOLUENE	10.00	9.99	99.9	75-120
TRANS-1,2-DICHLOROETHENE	10.00	9.84	98.4	60-140
TRICHLOROETHENE	10.00	9.99	99.9	70-125
VINYL CHLORIDE	10.00	9.83	98.3	50-145
XYLENES (TOTAL)	30.0	30.3	101	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	30.9	30.6	99.0	70-120
SURROGATE: 4-BROMOFLUOROBENZE	33.2	34.0	103	75-120
SURROGATE: DIBROMOFLUOROMETH	32.7	32.0	98.0	85-115
SURROGATE: TOLUENE-D8 (S)	33.9	33.2	97.8	85-120

Comments:

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	01/31/12
Analysis Date :	01/31/12
Instrument :	Thor
Run :	0131T17
Initials :	SV

Printed: 02/10/12 11:21:54 AM

APPL Standard LCS

Matrix Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120201W-53807 MS - 163743**
Batch ID: #86RHB-120127AC
Sample ID: AY53807
Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	Matrix Result ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	ND	8.25	82.5	80-130
1,1,1-TRICHLOROETHANE	10.00	ND	8.74	87.4	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	ND	8.39	83.9	65-130
1,1,2-TRICHLOROETHANE	10.00	ND	8.12	81.2	75-125
1,1-DICHLOROETHANE	10.00	ND	8.60	86.0	70-135
1,1-DICHLOROETHENE	10.00	ND	8.63	86.3	70-130
1,2,3-TRICHLOROPROPANE	10.00	ND	7.73	77.3	75-125
1,2,4-TRICHLOROBENZENE	10.00	ND	9.38	93.8	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	ND	7.15	71.5	50-130
1,2-DIBROMOETHANE	10.00	ND	8.01	80.1	70-130
1,2-DICHLOROBENZENE	10.00	ND	8.29	82.9	70-120
1,2-DICHLOROETHANE	10.00	ND	8.28	82.8	70-130
1,2-DICHLOROPROPANE	10.00	ND	8.39	83.9	75-125
1,3-DICHLOROBENZENE	10.00	ND	8.48	84.8	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	ND	15.8	79.0	70-130
1,4-DICHLOROBENZENE	10.00	ND	8.48	84.8	75-125
2-BUTANONE	10.00	ND	8.66	86.6	30-150
4-METHYL-2-PENTANONE	10.00	ND	8.01	80.1	60-135
ACETONE	10.00	ND	8.23	82.3	40-140
BENZENE	10.00	ND	8.52	85.2	80-120
BROMODICHLOROMETHANE	10.00	ND	8.25	82.5	75-120
BROMOFORM	10.00	ND	7.38	73.8	70-130
BROMOMETHANE	10.00	ND	4.90	49.0	30-145
CARBON TETRACHLORIDE	10.00	ND	9.48	94.8	65-140
CHLOROBENZENE	10.00	ND	8.45	84.5	80-120

Comments: _____

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	02/01/12
Analysis Date :	02/01/12
Instrument :	Thor
Run :	0201T24
Initials :	SV

Printed: 02/10/12 9:19:48 AM
APPL MS SCII

Matrix Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120201W-53807 MS - 163743**
Batch ID: #86RHB-120127AC
Sample ID: AY53807
Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	Matrix Result ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLORODIBROMOMETHANE	10.00	ND	7.74	77.4	60-135
CHLOROETHANE	10.00	ND	10.5	105	60-135
CHLOROFORM	10.00	ND	8.57	85.7	65-135
CHLOROMETHANE	10.00	ND	8.42	84.2	40-125
CIS-1,2-DICHLOROETHENE	10.00	ND	8.62	86.2	70-125
ETHYLBENZENE	10.00	ND	8.49	84.9	75-125
GASOLINE	300	ND	280	93.3	75-125
HEXACHLOROBUTADIENE	10.00	ND	7.94	79.4	50-140
METHYL TERT-BUTYL ETHER	10.00	ND	8.39	83.9	65-125
METHYLENE CHLORIDE	10.00	ND	9.66	96.6	55-140
STYRENE	10.00	ND	8.60	86.0	65-135
TETRACHLOROETHENE	10.00	ND	8.71	87.1	45-150
TOLUENE	10.00	ND	8.40	84.0	75-120
TRANS-1,2-DICHLOROETHENE	10.00	ND	8.84	88.4	60-140
TRICHLOROETHENE	10.00	ND	8.55	85.5	70-125
VINYL CHLORIDE	10.00	ND	9.44	94.4	50-145
XYLENES (TOTAL)	30.0	ND	25.9	86.3	80-120
SURROGATE: 1,2-DICHLOROETHANE-D4 (	30.9	NA	29.6	95.8	70-120
SURROGATE: 4-BROMOFLUOROBENZENE	33.2	NA	34.4	104	75-120
SURROGATE: DIBROMOFLUOROMETHAN	32.7	NA	33.1	101	85-115
SURROGATE: TOLUENE-D8 (S)	33.9	NA	33.1	97.5	85-120

Comments: _____

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	02/01/12
Analysis Date :	02/01/12
Instrument :	Thor
Run :	0201T24
Initials :	SV

Printed: 02/10/12 9:19:48 AM
APPL MS SCII

Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: **120201W-53807 MS - 163743**
Batch ID: #86RHB-120127AC
Sample ID: AY53807
Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE	300	ND	280	277	93.3	92.3	75-125	1.1	30

Comments: _____

Primary	SPK	DUP
Quant Method :	TALLW.M	CALLW.M
Extraction Date :	02/01/12	02/01/12
Analysis Date :	02/01/12	02/01/12
Instrument :	Thor	Chico
Run :	0201T24	0201C06
Initials :	SV	

Printed: 02/10/12 9:18:43 AM
APPL MSD SCII

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 01/27/12

Matrix: WATER Instrument: Chico

Blank ID: 120127AC-BLK Time Analyzed: 1501

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120127AC-LCS	Lab Control Spike	0127C03	01/27/12 1118
120127AC-BLK	Blank	0127C09	01/27/12 1501
AY53807	ES060	0127C15	01/27/12 1844
AY53808	ES061	0127C16	01/27/12 1921
120127AC-MSD	Matrix SpikeD	0201C06	02/01/12 1539
120127AC-MS	Matrix Spike	0201T24	02/01/12 2003

Comments: Batch: #86RHB-120127AC

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 01/27/12

Matrix: WATER Instrument: Chico

Blank ID: 120127AC1-BLK Time Analyzed: 1501

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120127AC1-LCS	Lab Control Spike	0127C03	01/27/12 1118
120127AC1-BLK	Blank	0127C09	01/27/12 1501
AY53809	TRIP BLANK	0127C11	01/27/12 1616

Comments: Batch: #86RHB-120127AC

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66826

Case No: 66826 Date Analyzed: 01/31/12

Matrix: WATER Instrument: Thor

Blank ID: 120131AT-BLK Time Analyzed: 2100

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120131AT-LCS	Lab Control Spike	0131T17	01/31/12 1746
120131AT-BLK	Blank	0131T24	01/31/12 2100
AY53809	TRIP BLANK	0131T25	01/31/12 2127

Comments: Batch: #86RHB-120131AT

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0127C00T.D
Matrix: Water
ID: 25ug/mL BFB Std. 01-12-12

SDG No: 66826
Date Analyzed: 01/27/12
Instrument: Chico
Time Analyzed: 9:32

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		10ug/L Vol Std 01-27	0127C02W.D	01/27/12 10:41
2	Lab Control Spike	120127A LCS-1WC	0127C03W.D	01/27/12 11:18
3	Blank	120127A BLK-1WC	0127C09W.D	01/27/12 15:01
4	TRIP BLANK	AY53809W01	0127C11W.D	01/27/12 16:16
5	ES060	AY53807W01	0127C15W.D	01/27/12 18:44
6	ES061	AY53808W01	0127C16W.D	01/27/12 19:21
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22				

m/e		
50	15 - 40% of mass 95	17.4
75	30 - 60% of mass 95	44.7
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.7
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	92.9
175	5 - 9% of mass 174	7.3
176	95 - 101% of mass 174	99.4
177	5 - 9% of mass 176	6.5

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0131T00T.D
Matrix: Water
ID: 5ng- BFB STD 1-12-12

SDG No: 66826
Date Analyzed: 01/31/12
Instrument: Thor
Time Analyzed: 10:01

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		10ug/L VOC STd 1-31-	0131T16W.D	01/31/12 17:19
2	Lab Control Spike	120131A LCS-1WT	0131T17W.D	01/31/12 17:46
3	Blank	120131A BLK-1WT	0131T24W.D	01/31/12 21:00
4	TRIP BLANK	AY53809W02	0131T25W.D	01/31/12 21:27
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22				

m/e		
50	15 - 40% of mass 95	18.3
75	30 - 60% of mass 95	49.2
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	7.4
173	0 - 2% of mass 174	1.0
174	50 - 100% of mass 95	90.4
175	5 - 9% of mass 174	7.4
176	95 - 101% of mass 174	99.5
177	5 - 9% of mass 176	6.5

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0201T00T.D
Matrix: Water
ID: 5ng- BFB STD 1-12-12

SDG No: 66826
Date Analyzed: 02/01/12
Instrument: Thor
Time Analyzed: 8:48

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		10ug/L VOC STd 2-01-	0201T02W.D	02/01/12 9:54
2		AY53807W02 MS-1WT	0201T24W.D	02/01/12 20:03
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21				
22				

m/e		
50	15 - 40% of mass 95	18.1
75	30 - 60% of mass 95	48.8
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.9
173	0 - 2% of mass 174	0.9
174	50 - 100% of mass 95	90.8
175	5 - 9% of mass 174	7.4
176	95 - 101% of mass 174	96.6
177	5 - 9% of mass 176	7.1

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0127C00T.D
Matrix: Water
ID: 25ug/mL BFB Std. 01-12-12

SDG No: 66826
Date Analyzed: 01/27/12
Instrument: Chico
Time Analyzed: 9:32

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		CCV gas 300ug/L	0127C05W.D	01/27/12 12:32
2	Lab Control Spike	LCS gas 300ug/L	0127C06W.D	01/27/12 13:10
3	Blank	120127A BLK-1WC	0127C09W.D	01/27/12 15:01
4	TRIP BLANK	AY53809W01	0127C11W.D	01/27/12 16:16
5	ES060	AY53807W01	0127C15W.D	01/27/12 18:44
6	ES061	AY53808W01	0127C16W.D	01/27/12 19:21
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m/e		
50	15 - 40% of mass 95	17.4
75	30 - 60% of mass 95	44.7
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.7
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	92.9
175	5 - 9% of mass 174	7.3
176	95 - 101% of mass 174	99.4
177	5 - 9% of mass 176	6.5

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0201C00T.D
Matrix: Water
ID: 25ug/mL BFB Std. 01-12-12

SDG No: 66826
Date Analyzed: 02/01/12
Instrument: Chico
Time Analyzed: 12:01

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		120201A CCV-WC-GAS	0201C03W.D	02/01/12 13:48
2		AY53807W05 MS-1WC	0201C05W.D	02/01/12 15:02
3		AY53807W06 MSD-1WS	0201C06W.D	02/01/12 15:39
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22				

m/e		
50	15 - 40% of mass 95	16.6
75	30 - 60% of mass 95	43.0
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.6
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	95.4
175	5 - 9% of mass 174	7.5
176	95 - 101% of mass 174	99.3
177	5 - 9% of mass 176	6.0

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66826

Lab File ID (Standard): 0125C11W.D Date Analyzed: 01/25/12

Instrument ID: Chico Time Analyzed: 19:44

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	572455	12.77	460544	17.96	244544	22.16
	UPPER LIMIT	1144910	13.27	921088	18.46	489088	22.66
	LOWER LIMIT	286228	12.27	230272	17.46	122272	21.66
	SAMPLE NO.						
01	10ug/L Vol Std 01-27-12	578666	12.78	469312	17.98	257152	22.17
02	120127A LCS-1WC	593908	12.78	495744	17.98	259520	22.17
03	120127A BLK-1WC	575259	12.79	477248	17.98	253632	22.18
04	AY53809W01	512838	12.79	424320	17.98	217920	22.18
05	AY53807W01	541932	12.78	452096	17.97	231488	22.17
06	AY53808W01	553378	12.78	449920	17.97	227968	22.17
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AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66826

Lab File ID (Standard): 0131T08W.D Date Analyzed: 01/31/12

Instrument ID: Thor Time Analyzed: 13:37

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	702464	6.75	558464	9.89	303936	12.22
	UPPER LIMIT	1404928	7.25	1116928	10.39	607872	12.72
	LOWER LIMIT	351232	6.25	279232	9.39	151968	11.72
	SAMPLE NO.						
01	10ug/L VOC STd 1-31-12	719680	6.75	585920	9.89	313664	12.22
02	120131A LCS-1WT	721472	6.75	577472	9.89	323520	12.22
03	120131A BLK-1WT	683584	6.74	544384	9.89	266368	12.22
04	AY53809W02	676608	6.75	538176	9.89	275072	12.22
05	10ug/L VOC STd 2-01-12	687936	6.74	562176	9.89	315840	12.22
06	AY53807W02 MS-1WT	709504	6.75	582016	9.89	325312	12.22
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AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66826

Lab File ID (Standard): 0125C32W.D Date Analyzed: 01/26/12

Instrument ID: Chico Time Analyzed: 21:24

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	1085220	12.79	1323770	17.98	1382630	22.18
	UPPER LIMIT	2170440	13.29	2647540	18.48	2765260	22.68
	LOWER LIMIT	542610	12.29	661885	17.48	691315	21.68
	SAMPLE NO.						
01	CCV gas 300ug/L	1173650	12.79	1400160	17.98	1488880	22.18
02	LCS gas 300ug/L	1198130	12.79	1400450	17.98	1498630	22.18
03	120127A BLK-1WC	1109840	12.79	1312810	17.98	1350220	22.18
04	AY53809W01	997894	12.79	1175870	17.98	1152400	22.18
05	AY53807W01	1064210	12.78	1214480	17.97	1218100	22.17
06	AY53808W01	1083820	12.78	1227390	17.97	1205000	22.17
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AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66826

Lab File ID (Standard): 0125C32W.D Date Analyzed: 01/26/12

Instrument ID: Chico Time Analyzed: 21:24

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	1085220	12.79	1323770	17.98	1382630	22.18
	UPPER LIMIT	2170440	13.29	2647540	18.48	2765260	22.68
	LOWER LIMIT	542610	12.29	661885	17.48	691315	21.68
	SAMPLE NO.						
01	120201A CCV-WC-GAS	1131150	12.79	1103360	17.99	1143490	22.19
02	AY53807W05 MS-1WC	1164130	12.80	1167430	17.98	1135320	22.19
03	AY53807W06 MSD-1WS	1150040	12.80	1201320	17.98	1182680	22.19
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AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = -50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

Manual Integration Summary

ARF: 66826

APPL ID	Client ID	Method	Analyte	Type	Comment
AY53807	MS	EPA 8260B	GASOLINE	MS	(MI1) Integration does not follow baseline.
AY53807	MSD	EPA 8260B	GASOLINE	MSD	(MI1) Integration does not follow baseline.

EPA METHOD 8260B
Volatile Organic Compounds
Sample Data

APPL, INC.

EPA 8260B VOCs + Gas Water

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

Attn: Max Solmssen
Project: RED HILL/1022-024
Sample ID: ES060
Sample Collection Date: 01/26/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66826
APPL ID: AY53807
QCG: #86RHB-120127AC-163743

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	01/27/12	01/27/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/27/12	01/27/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/27/12	01/27/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	01/27/12	01/27/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	01/27/12	01/27/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/27/12	01/27/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/27/12	01/27/12
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/27/12	01/27/12
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/27/12	01/27/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/27/12	01/27/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/27/12	01/27/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/27/12	01/27/12
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	01/27/12	01/27/12

Quant Method: CALLW.M
Run #: 0127C15
Instrument: Chico
Sequence: C120125
Dilution Factor: 1
Initials: SV

Printed: 02/10/12 9:18:00 AM
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: Max Solmssen

Project: RED HILL/1022-024

ARF: 66826

Sample ID: ES060

APPL ID: AY53807

Sample Collection Date: 01/26/12

QCG: #86RHB-120127AC-163743

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	01/27/12	01/27/12
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/27/12	01/27/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	102	70-120			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	91.4	75-120			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	100	85-115			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	101	85-120			%	01/27/12	01/27/12

Quant Method: CALLW.M
Run #: 0127C15
Instrument: Chico
Sequence: C120125
Dilution Factor: 1
Initials: SV

Printed: 02/10/12 9:18:00 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C15W.D Vial: 1
Acq On : 27 Jan 12 18:44 Operator: RS, ARS
Sample : AY53807W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 31 12:02 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.78	96	541932	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	17.97	117	452096	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.17	152	231488	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.37	111	348981	24.19037 ppb	0.00
Spiked Amount 24.119			Recovery	= 100.294%	
37) 1,2-DCA-D4(S)	12.17	65	243345	23.37929 ppb	0.00
Spiked Amount 22.874			Recovery	= 102.207%	
55) Toluene-D8(S)	15.44	98	1426202	24.96330 ppb	0.00
Spiked Amount 24.755			Recovery	= 100.840%	
63) 4-Bromofluorobenzene(S)	20.04	95	488866	24.48362 ppb	0.01
Spiked Amount 26.777			Recovery	= 91.436%	
Target Compounds					Qvalue
25) Vinyl Acetate	9.36	43	2012	0.86921 ppb NT#	73

ARS 1/31/12

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

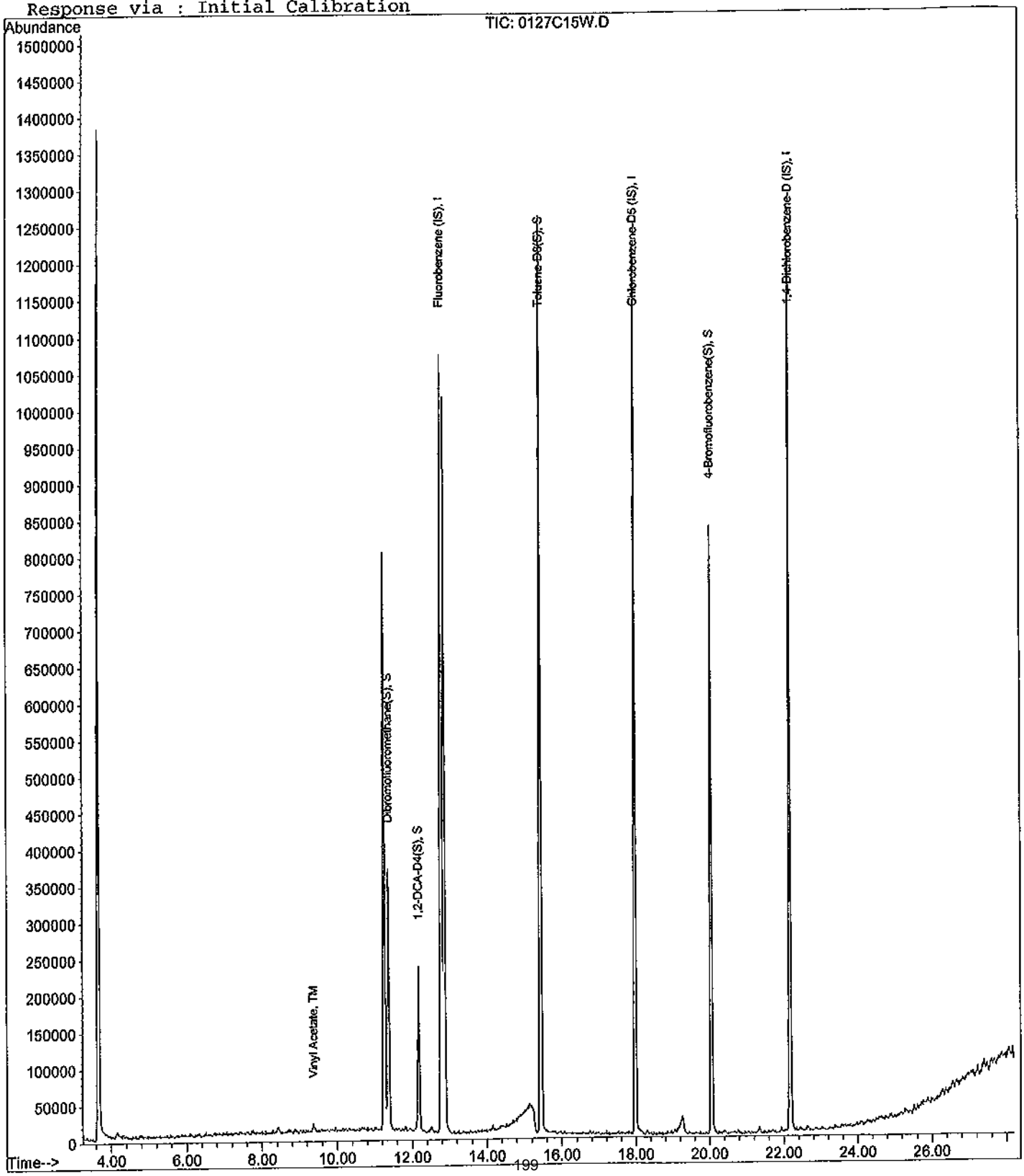
Quantitation Report

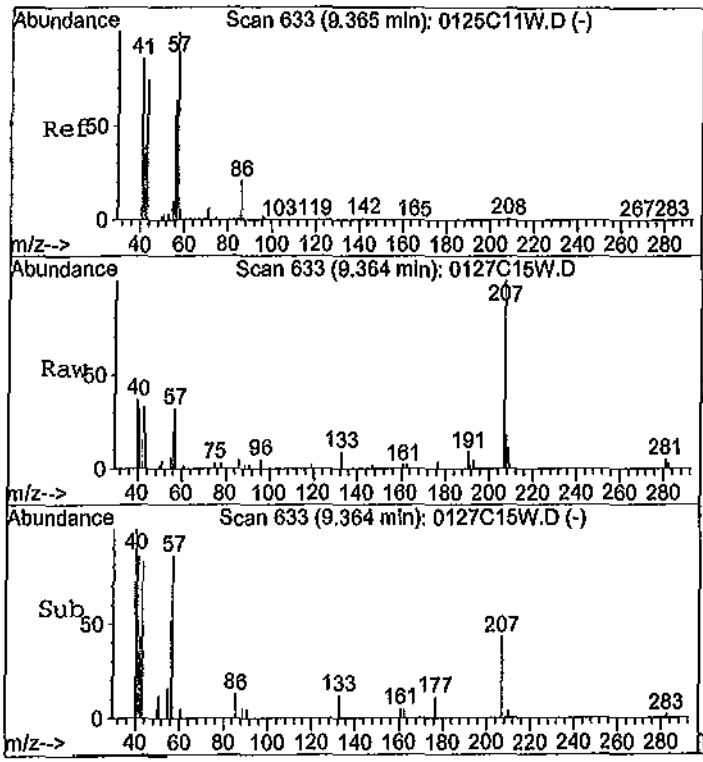
Data File : M:\CHICO\DATA\C120125\0127C15W.D
Acq On : 27 Jan 12 18:44
Sample : AY53807W01
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Jan 31 12:02 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration

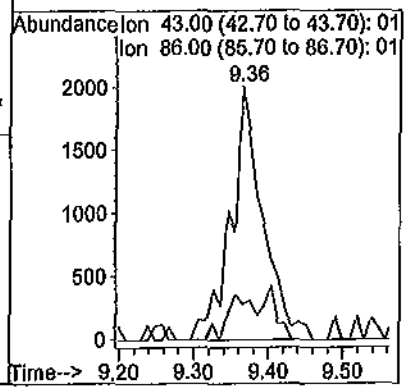




#25
Vinyl Acetate
Concen: 0.86921 ppb
RT: 9.36 min Scan# 633
Delta R.T. 0.00 min
Lab File: 0127C15W.D
Acq: 27 Jan 12 18:44

Tgt Ion: 43 Resp: 2012

Ion	Ratio	Lower	Upper
43	100		
86	14.2	20.0	37.1#



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C15W.D Vial: 1
Acq On : 27 Jan 12 18:44 Operator: RS, ARS
Sample : AY53807W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.78	TIC	1064212	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.97	TIC	1214482	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.17	TIC	1218099	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	18311095m	5.87089	ppb	100

no gasoline pattern

(#) = qualifier out of range (m) = manual integration
201
0127C15W.D CGAS.M Tue Feb 07 09:58:18 2012 Page 1

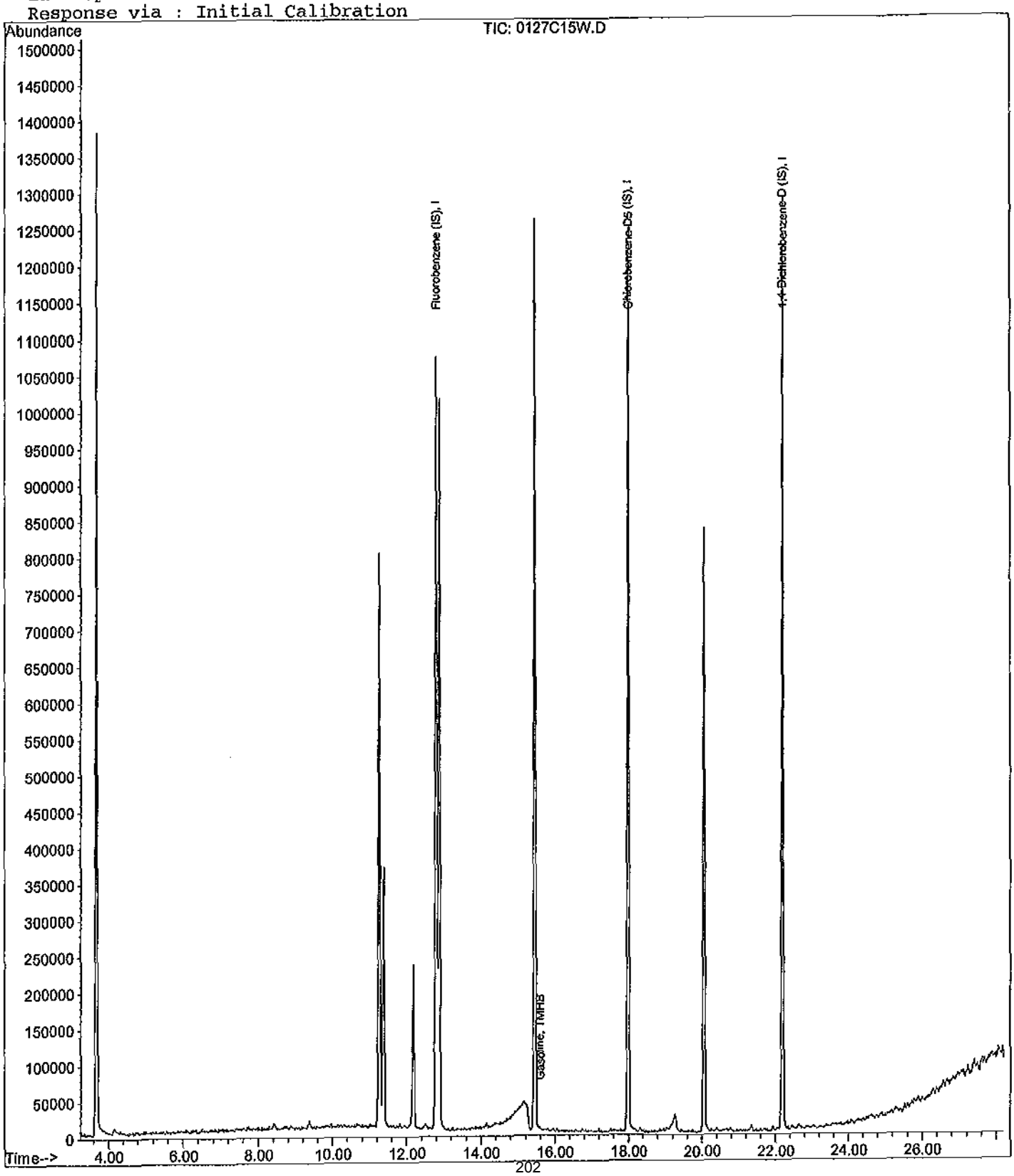
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C15W.D
Acq On : 27 Jan 12 18:44
Sample : AY53807W01
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

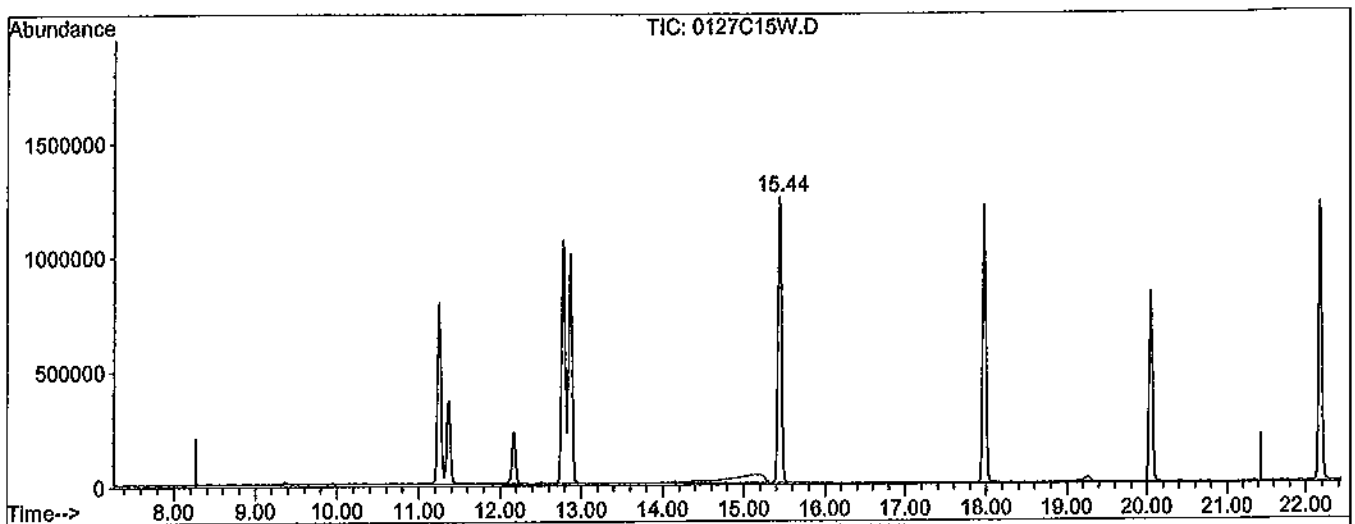
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

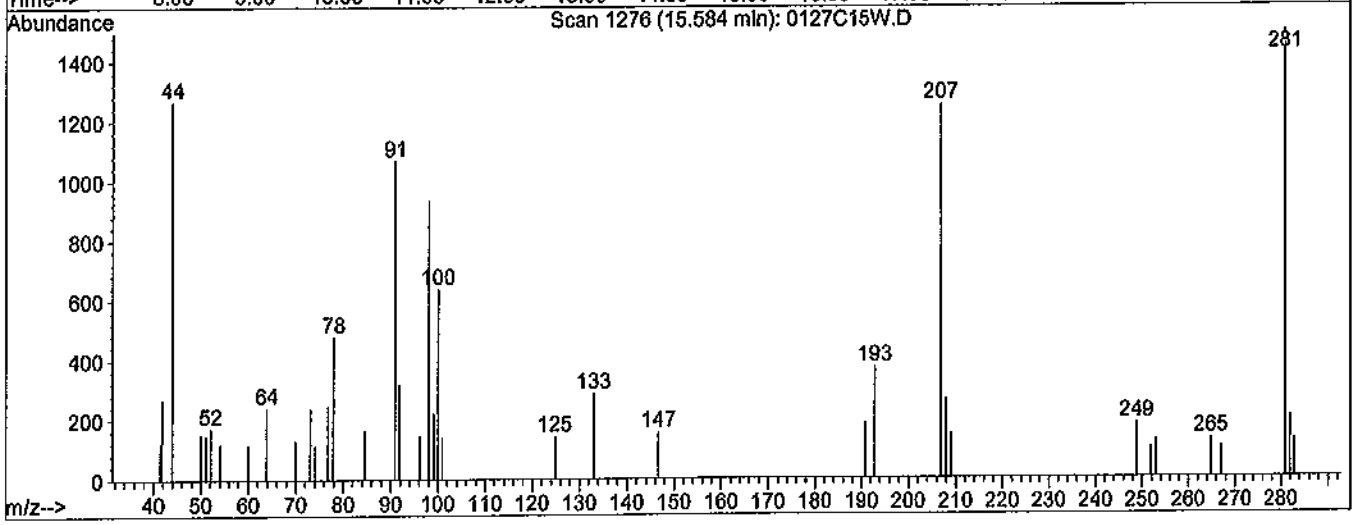


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C15W.D Vial: 1
Acq On : 27 Jan 12 18:44 Operator: RS, ARS
Sample : AY53807W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:48 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0127C15W.D

(2) Gasoline (TMHB)

15.58min 5.8709ppb m

response 18311095

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.68#
0.00	0.00	1.93#
0.00	0.00	0.00

EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen
Project: RED HILL/1022-024
Sample ID: ES061
Sample Collection Date: 01/26/12

ARF: 66826
APPL ID: AY53808
QCG: #86RHB-120127AC-163743

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	01/27/12	01/27/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/27/12	01/27/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/27/12	01/27/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	01/27/12	01/27/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	01/27/12	01/27/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/27/12	01/27/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/27/12	01/27/12
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/27/12	01/27/12
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/27/12	01/27/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/27/12	01/27/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/27/12	01/27/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	ETHYLBENZENE	0.30 J	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/27/12	01/27/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/27/12	01/27/12
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C16
Instrument: Chico
Sequence: C120125
Dilution Factor: 1
Initials: SV

Printed: 02/10/12 9:18:01 AM
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: Max Solmssen

Project: RED HILL/1022-024

ARF: 66826

Sample ID: ES061

APPL ID: AY53808

Sample Collection Date: 01/26/12

QCG: #86RHB-120127AC-163743

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	01/27/12	01/27/12
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/27/12	01/27/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	101	70-120			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	94.5	75-120			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	98.2	85-115			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	102	85-120			%	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C16
Instrument: Chico
Sequence: C120125
Dilution Factor: 1
Initials: SV

Printed: 02/10/12 9:18:01 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C16W.D Vial: 1
Acq On : 27 Jan 12 19:21 Operator: RS, ARS
Sample : AY53808W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 31 12:10 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.78	96	553378	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	17.97	117	449920	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.17	152	227968	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.37	111	348738	23.67352 ppb	0.00
Spiked Amount 24.119			Recovery = 98.154%		
37) 1,2-DCA-D4(S)	12.17	65	245925	23.13846 ppb	0.00
Spiked Amount 22.874			Recovery = 101.153%		
55) Toluene-D8(S)	15.44	98	1435556	25.24855 ppb	0.00
Spiked Amount 24.755			Recovery = 101.995%		
63) 4-Bromofluorobenzene(S)	20.04	95	502841	25.30532 ppb	0.01
Spiked Amount 26.777			Recovery = 94.502%		
Target Compounds					Qvalue
25) Vinyl Acetate	9.36	43	1782	0.74708 ppbNT	86
46) Methyl Cyclohexane	13.77	83	4062	0.22846 ppbNT	92
68) Ethylbenzene	18.16	91	21094	0.29920 ppbJ	99
72) Isopropylbenzene	19.67	105	282691	4.14846 ppbNT	96
77) n-Propylbenzene	20.37	91	466600	5.50427 ppbNT	98
82) Tert-Butylbenzene	21.29	119	57669	0.90846 ppbNT	97
84) Sec-Butylbenzene	21.69	105	372845	4.76080 ppbNT	96
90) n-Butylbenzene	22.64	91	213415	3.69685 ppbNT#	87
95) Naphthalene	25.88	128	138934	6.09194 ppbNT	99

ARS 1/31/12

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

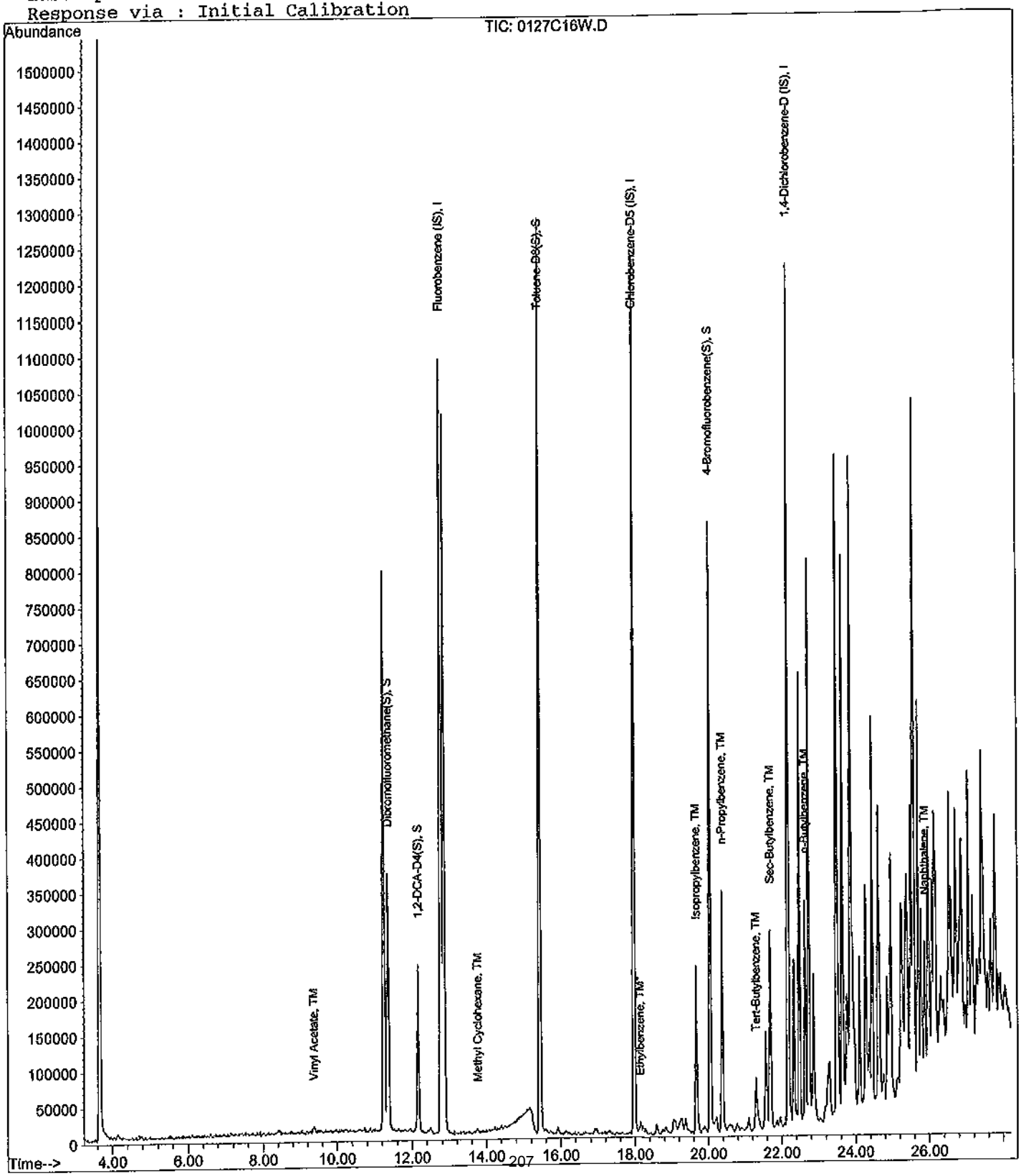
Quantitation Report

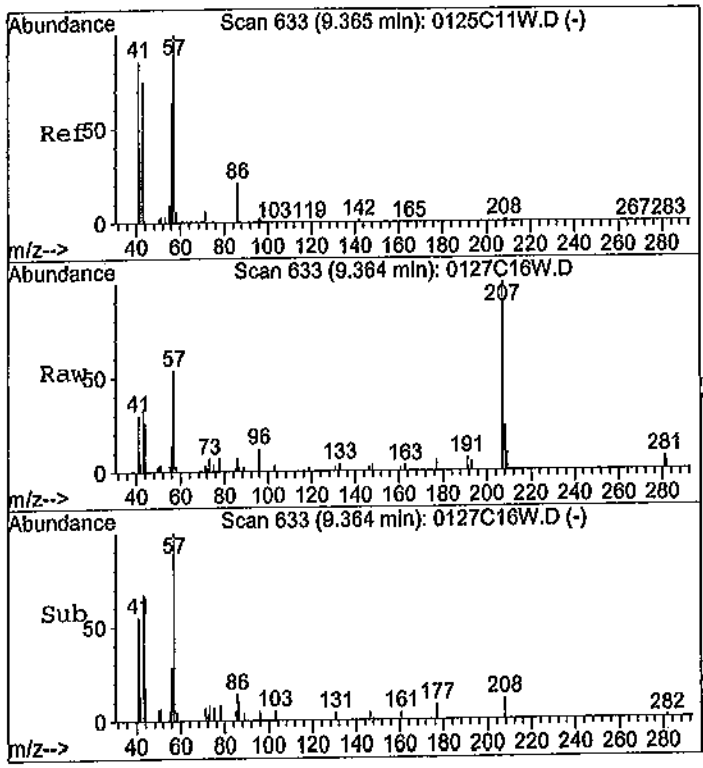
Data File : M:\CHICO\DATA\C120125\0127C16W.D
Acq On : 27 Jan 12 19:21
Sample : AY53808W01
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Jan 31 12:10 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration

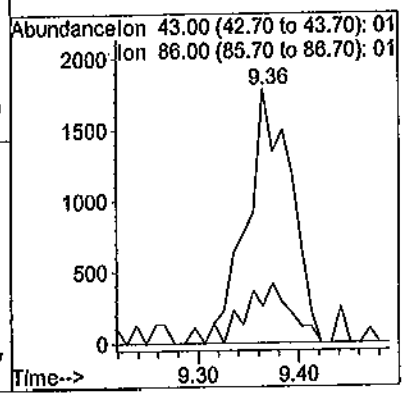


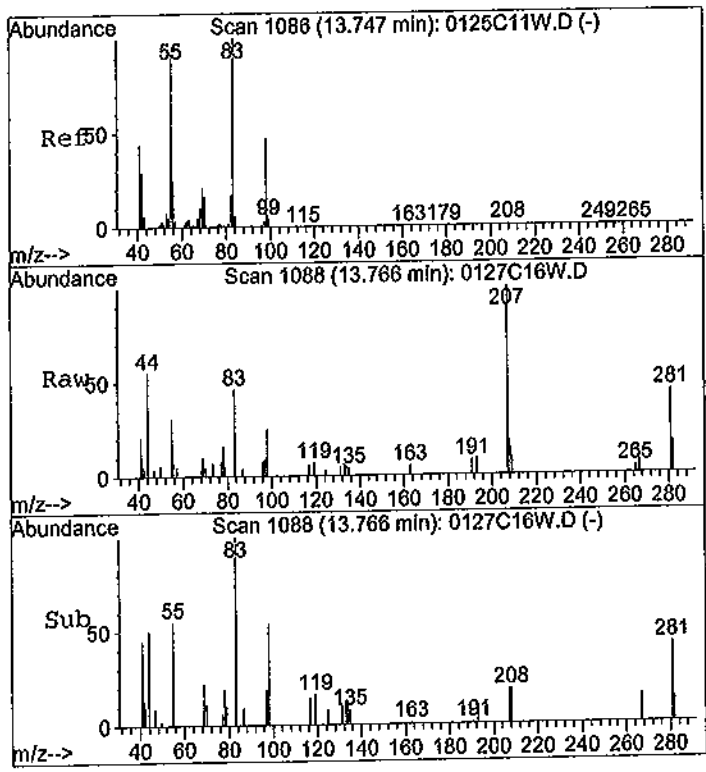


#25
Vinyl Acetate
Concen: 0.74708 ppb
RT: 9.36 min Scan# 633
Delta R.T. 0.00 min
Lab File: 0127C16W.D
Acq: 27 Jan 12 19:21

Tgt Ion: 43 Resp: 1782

Ion	Ratio	Lower	Upper
43	100		
86	20.8	20.0	37.1

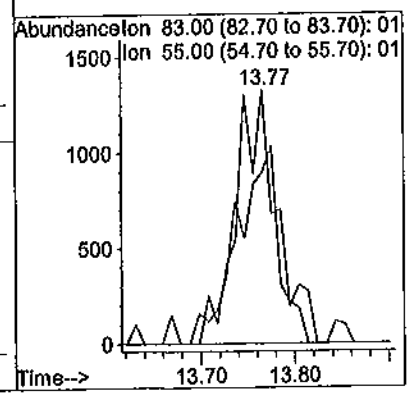


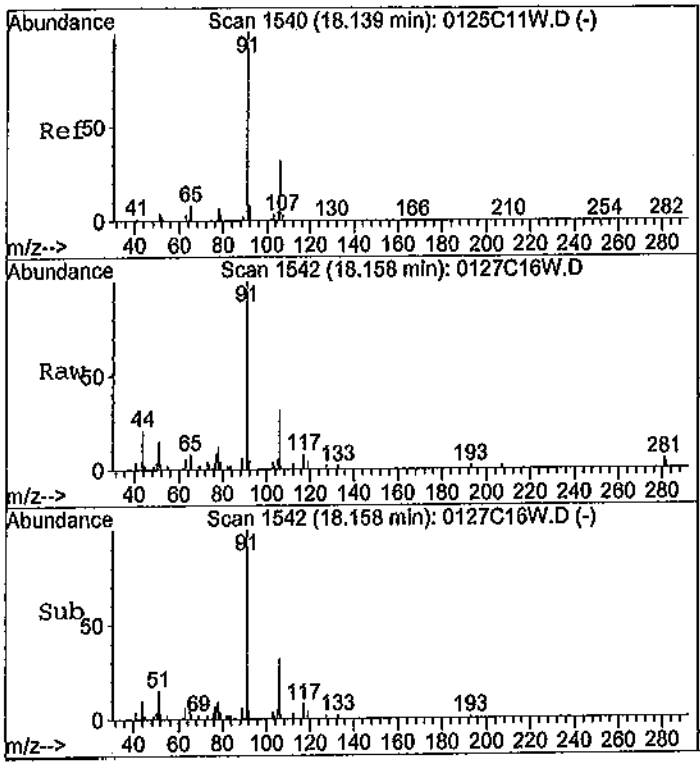


#46
Methyl Cyclohexane
Concen: 0.22846 ppb
RT: 13.77 min Scan# 1088
Delta R.T. 0.02 min
Lab File: 0127C16W.D
Acq: 27 Jan 12 19:21

Tgt Ion: 83 Resp: 4062

Ion	Ratio	Lower	Upper
83	100		
55	79.7	60.6	112.6

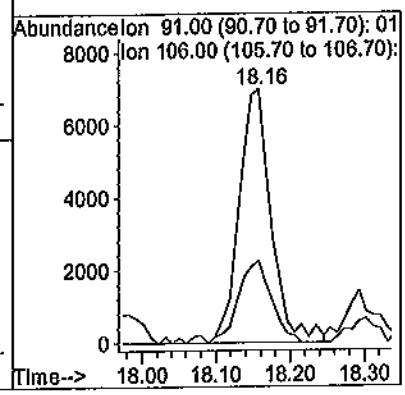


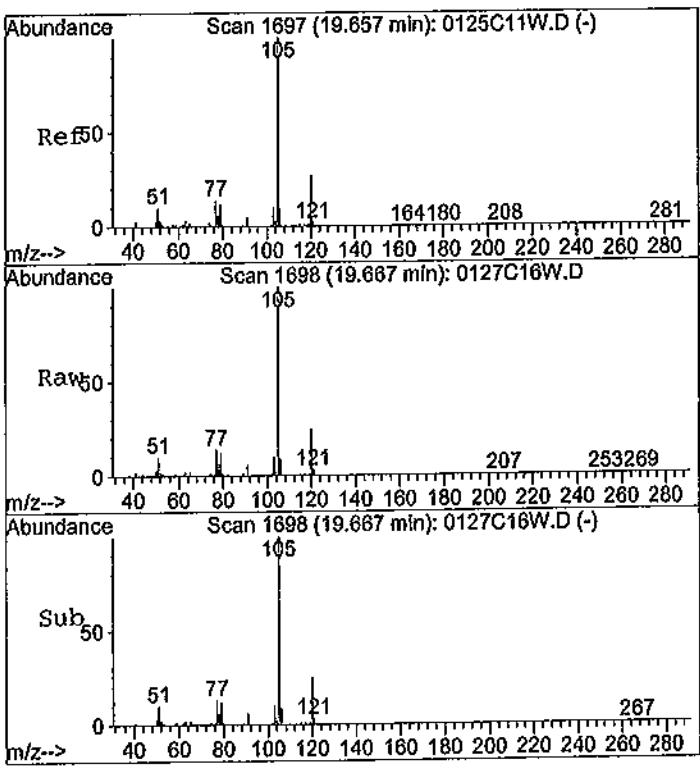


#68
Ethylbenzene
Concen: 0.29920 ppb
RT: 18.16 min Scan# 1542
Delta R.T. 0.02 min
Lab File: 0127C16W.D
Acq: 27 Jan 12 19:21

Tgt Ion: 91 Resp: 21094

Ion	Ratio	Lower	Upper
91	100		
106	32.3	22.3	41.5

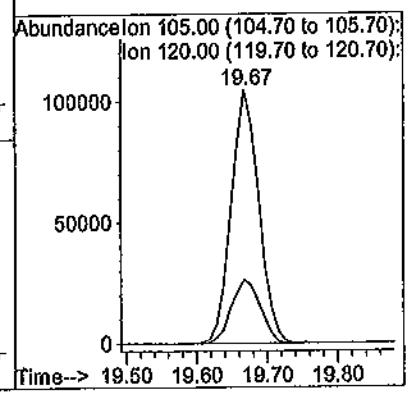


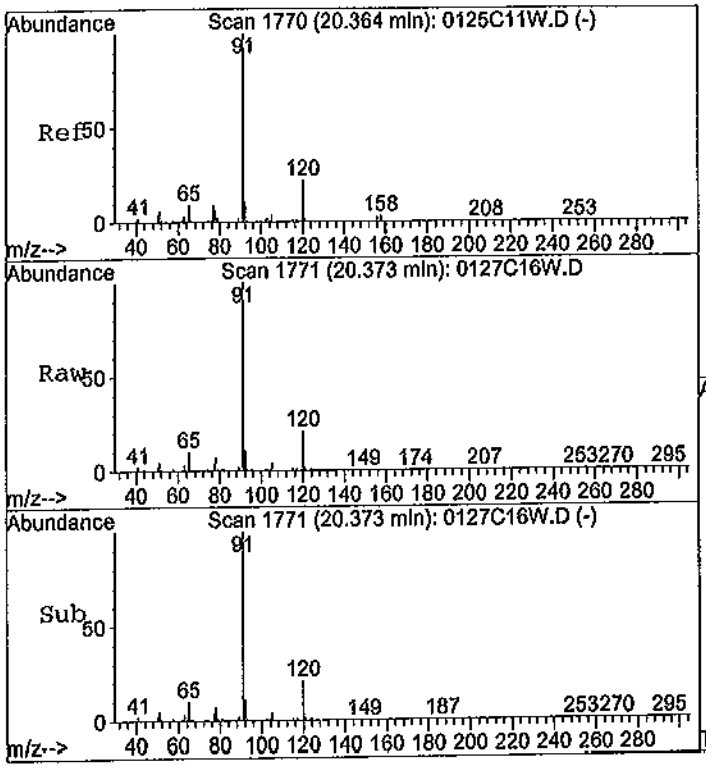


#72
Isopropylbenzene
Concen: 4.14846 ppb
RT: 19.67 min Scan# 1698
Delta R.T. 0.01 min
Lab File: 0127C16W.D
Acq: 27 Jan 12 19:21

Tgt Ion:105 Resp: 282691

Ion	Ratio	Lower	Upper
105	100		
120	25.1	21.6	32.4

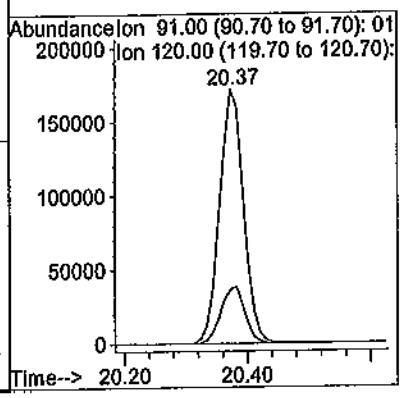


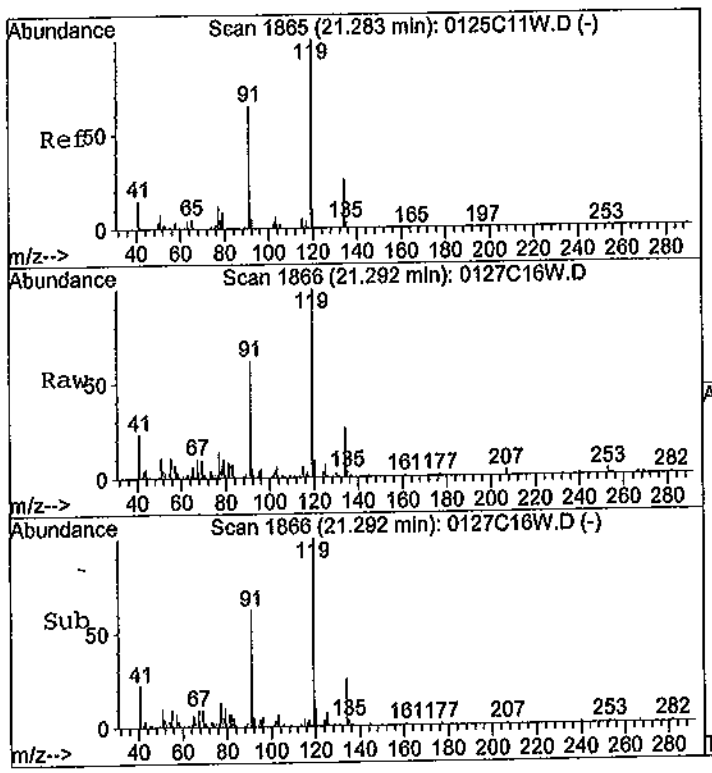


#77
n-Propylbenzene
Concen: 5.50427 ppb
RT: 20.37 min Scan# 1771
Delta R.T. 0.01 min
Lab File: 0127C16W.D
Acq: 27 Jan 12 19:21

Tgt Ion: 91 Resp: 466600

Ion	Ratio	Lower	Upper
91	100		
120	21.4	15.7	29.1

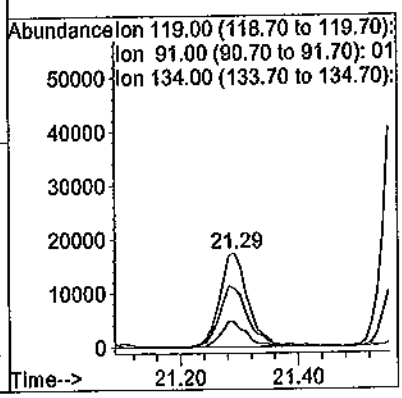


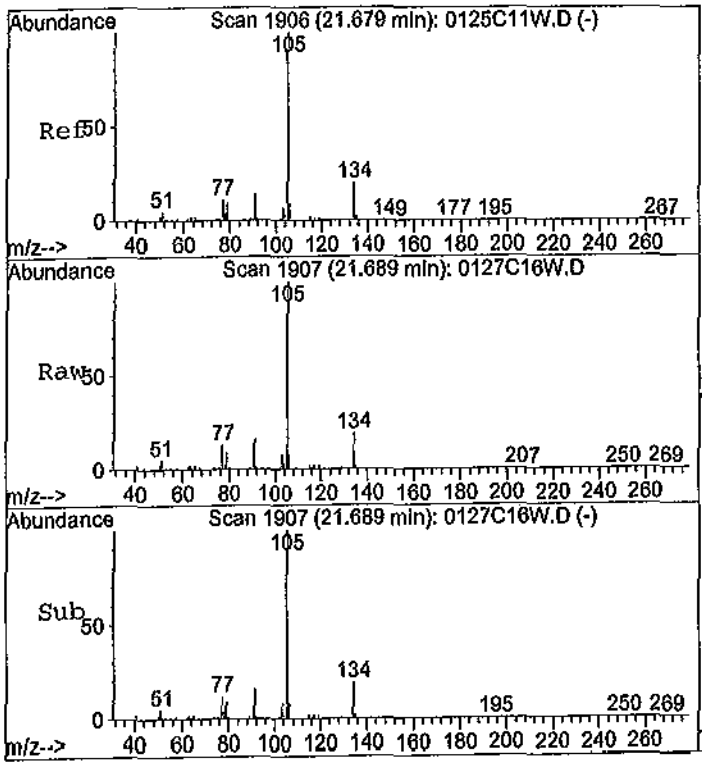


#82
Tert-Butylbenzene
Concen: 0.90846 ppb
RT: 21.29 min Scan# 1866
Delta R.T. 0.01 min
Lab File: 0127C16W.D
Acq: 27 Jan 12 19:21

Tgt Ion:119 Resp: 57669

Ion	Ratio	Lower	Upper
119	100		
91	61.9	45.6	84.6
134	26.1	18.1	33.5

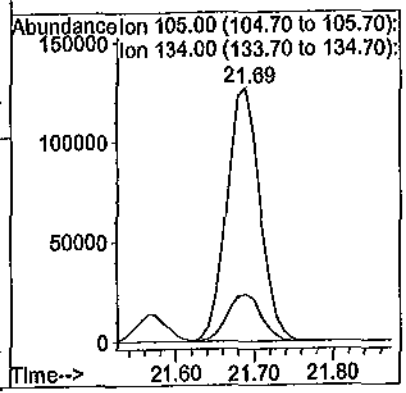


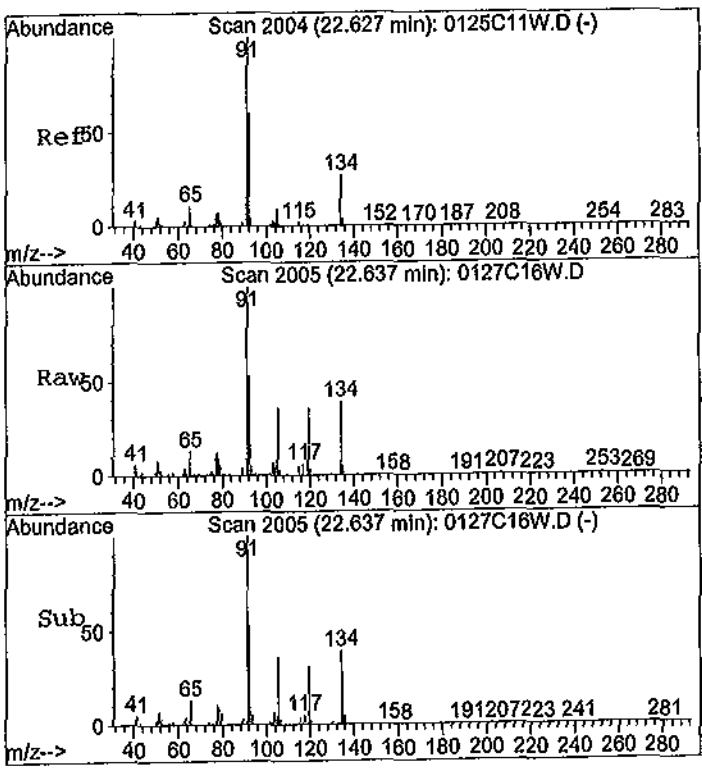


#84
Sec-Butylbenzene
Concen: 4.76080 ppb
RT: 21.69 min Scan# 1907
Delta R.T. 0.01 min
Lab File: 0127C16W.D
Acq: 27 Jan 12 19:21

Tgt Ion:105 Resp: 372845

Ion	Ratio	Lower	Upper
105	100		
134	18.6	14.3	26.5

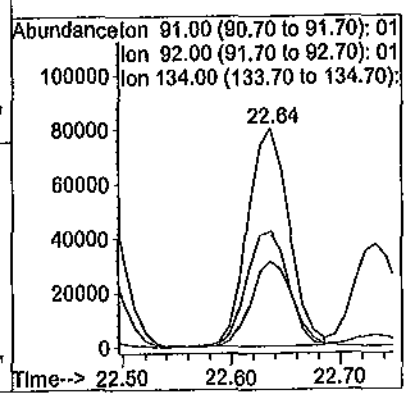


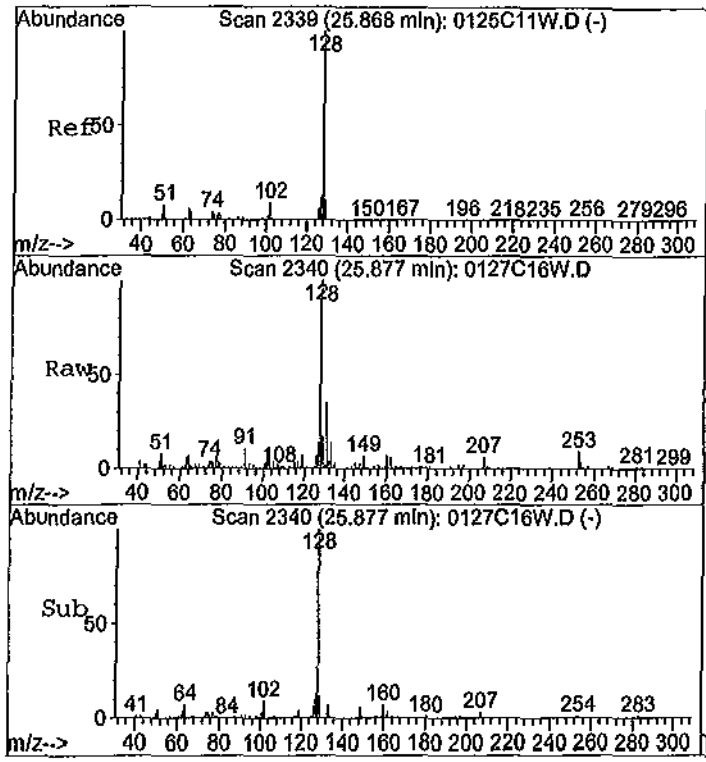


#90
n-Butylbenzene
Concen: 3.69685 ppb
RT: 22.64 min Scan# 2005
Delta R.T. 0.01 min
Lab File: 0127C16W.D
Acq: 27 Jan 12 19:21

Tgt Ion: 91 Resp: 213415

Ion	Ratio	Lower	Upper
91	100		
92	53.2	41.8	77.6
134	39.0	19.2	35.6#

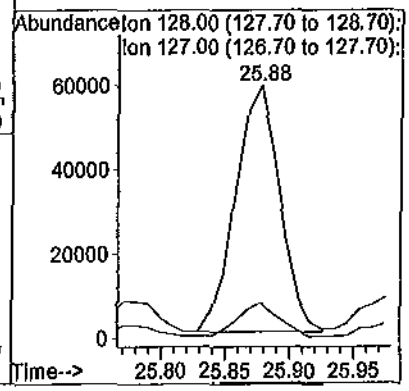




#95
Naphthalene
Concen: 6.09194 ppb
RT: 25.88 min Scan# 2340
Delta R.T. 0.01 min
Lab File: 0127C16W.D
Acq: 27 Jan 12 19:21

Tgt Ion:128 Resp: 138934

Ion	Ratio	Lower	Upper
128	100		
127	13.7	9.2	17.0



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C16W.D Vial: 1
Acq On : 27 Jan 12 19:21 Operator: RS, ARS
Sample : AY53808W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.78	TIC	1083817	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.97	TIC	1227393	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.17	TIC	1205004	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	21047470m	31.34109	ppb	100

No gasoline pattern. DD 2/7/2012

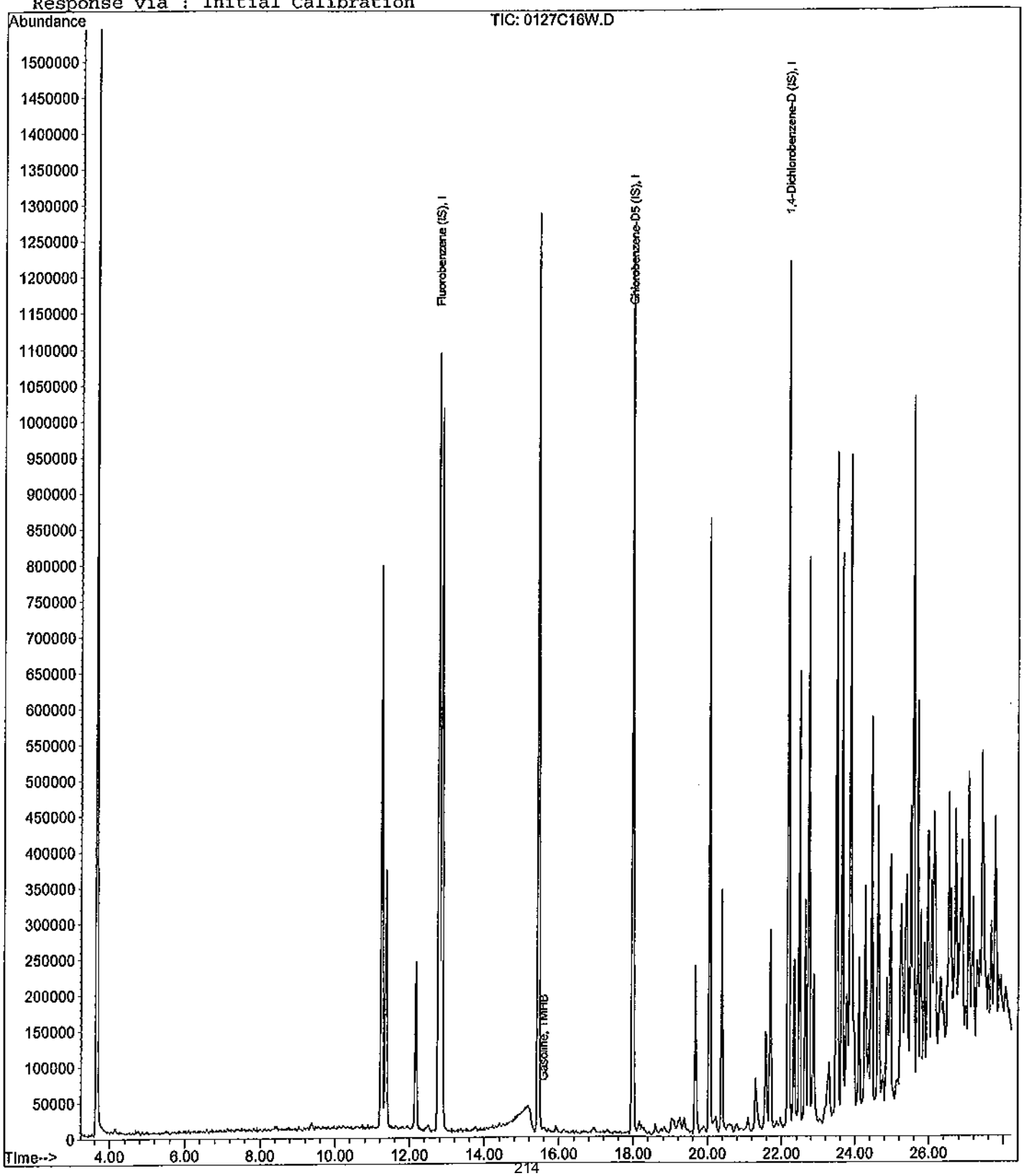
(#) = qualifier out of range (m) = manual integration
0127C16W.D CGAS.M Tue Feb 07 09:58:22 2012 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C16W.D Vial: 1
Acq On : 27 Jan 12 19:21 Operator: RS, ARS
Sample : AY53808W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

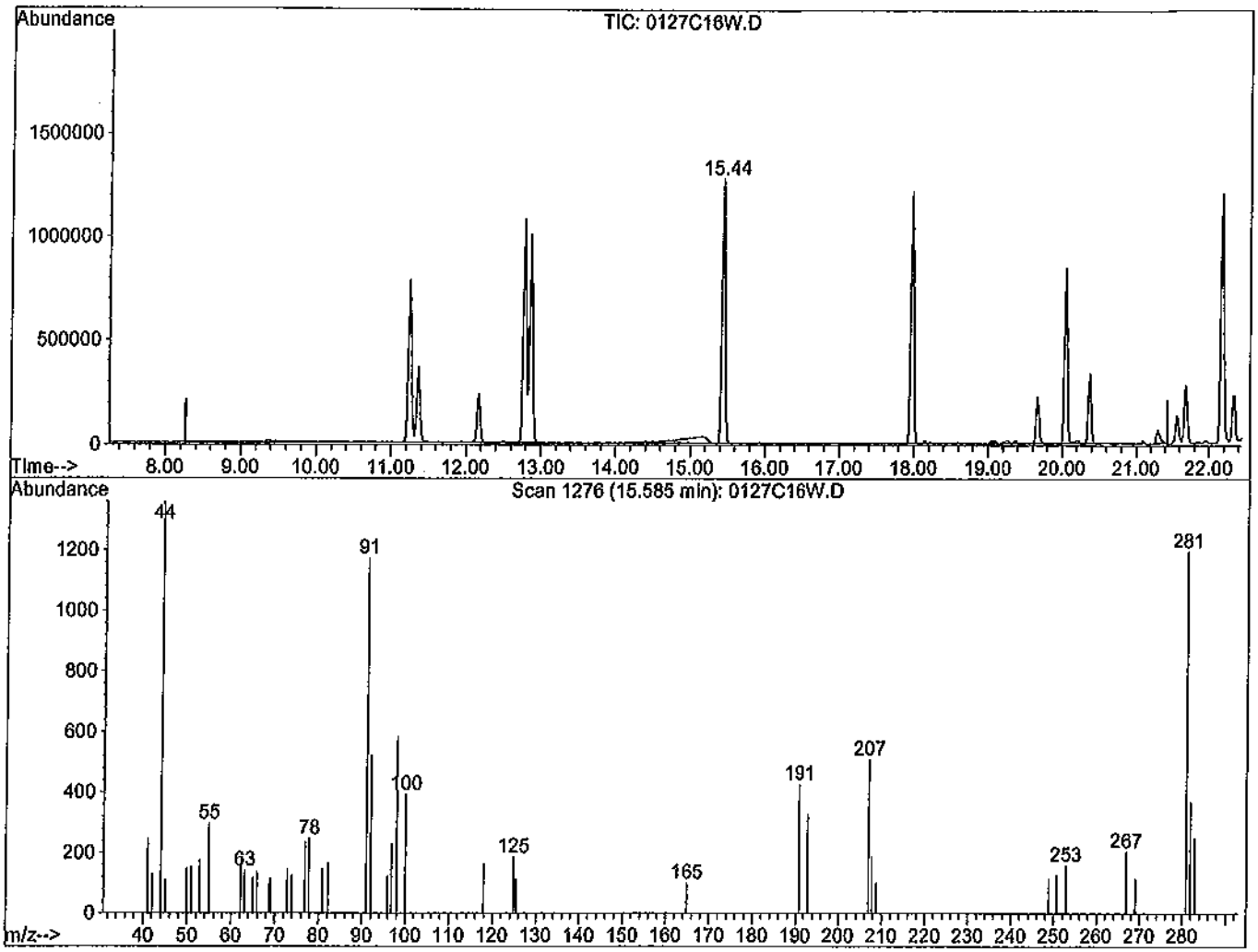
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C16W.D Vial: 1
Acq On : 27 Jan 12 19:21 Operator: RS, ARS
Sample : AY53808W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:48 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0127C16W.D

(2) Gasoline (TMHB)

15.58min 31.3411ppb m

response 21047470

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.58#
0.00	0.00	1.69#
0.00	0.00	0.00

EPA 8260B VOCS + GAS WATER

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen

Project: RED HILL/1022-024

ARF: 66826

Sample ID: TRIP BLANK

APPL ID: AY53809

Sample Collection Date: 01/26/12

QCG: #86RHB-120127AC1-16381

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/27/12	01/27/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	109	70-120			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	98.6	75-120			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	107	85-115			%	01/27/12	01/27/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	102	85-120			%	01/27/12	01/27/12

Quant Method: CALLW.M
Run #: 0127C11
Instrument: Chico
Sequence: C120125
Dilution Factor: 1
Initials: ARS

Printed: 02/10/12 11:20:27 AM
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: Max Solmssen
Project: RED HILL/1022-024
Sample ID: TRIP BLANK
Sample Collection Date: 01/26/12

ARF: 66826
APPL ID: AY53809
QCG: #86RHB-120131AT-163745

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	01/31/12	01/31/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/31/12	01/31/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/31/12	01/31/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	01/31/12	01/31/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	01/31/12	01/31/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/31/12	01/31/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/31/12	01/31/12
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/31/12	01/31/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/31/12	01/31/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/31/12	01/31/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/31/12	01/31/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/31/12	01/31/12
EPA 8260B	METHYLENE CHLORIDE	0.57 J	5.0	0.70	0.35	ug/L	01/31/12	01/31/12
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	01/31/12	01/31/12

J = Estimated value.

Quant Method: TALLW.M
Run #: 0131T25
Instrument: Thor
Sequence: T120131
Dilution Factor: 1
Initials: SV

Printed: 02/10/12 11:22:16 AM
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: Max Solmssen

Project: RED HILL/1022-024

ARF: 66826

Sample ID: TRIP BLANK

APPL ID: AY53809

Sample Collection Date: 01/26/12

QCG: #86RHB-120131AT-163745

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/31/12	01/31/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	98.6	70-120			%	01/31/12	01/31/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	99.9	75-120			%	01/31/12	01/31/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	99.3	85-115			%	01/31/12	01/31/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	101	85-120			%	01/31/12	01/31/12

J = Estimated value.

Quant Method: TALLW.M
Run #: 0131T25
Instrument: Thor
Sequence: T120131
Dilution Factor: 1
Initials: SV

Printed: 02/10/12 11:22:16 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C11W.D Vial: 1
Acq On : 27 Jan 12 16:16 Operator: RS, ARS
Sample : AY53809W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 31 11:35 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	96	512838	25.00000 ppb	0.02
54) Chlorobenzene-D5 (IS)	17.98	117	424320	25.00000 ppb	0.02
70) 1,4-Dichlorobenzene-D (IS)	22.18	152	217920	25.00000 ppb	0.02
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.37	111	352259	25.80283 ppb	0.00
Spiked Amount 24.119			Recovery = 106.981%		
37) 1,2-DCA-D4(S)	12.17	65	245008	24.87446 ppb	0.00
Spiked Amount 22.874			Recovery = 108.742%		
55) Toluene-D8(S)	15.45	98	1355271	25.27460 ppb	0.02
Spiked Amount 24.755			Recovery = 102.100%		
63) 4-Bromofluorobenzene(S)	20.05	95	494753	26.40046 ppb	0.02
Spiked Amount 26.777			Recovery = 98.591%		
Target Compounds					Qvalue
25) Vinyl Acetate	9.37	43	2053	0.94128 ppb NT#	81
90) n-Butylbenzene	22.66	91	8419	0.15256 ppb NT#	64
93) 1,2,4-Trichlorobenzene	25.54	180	1721	0.23611 ppb J, # B	92 → report from RT

ARS 1/31/12

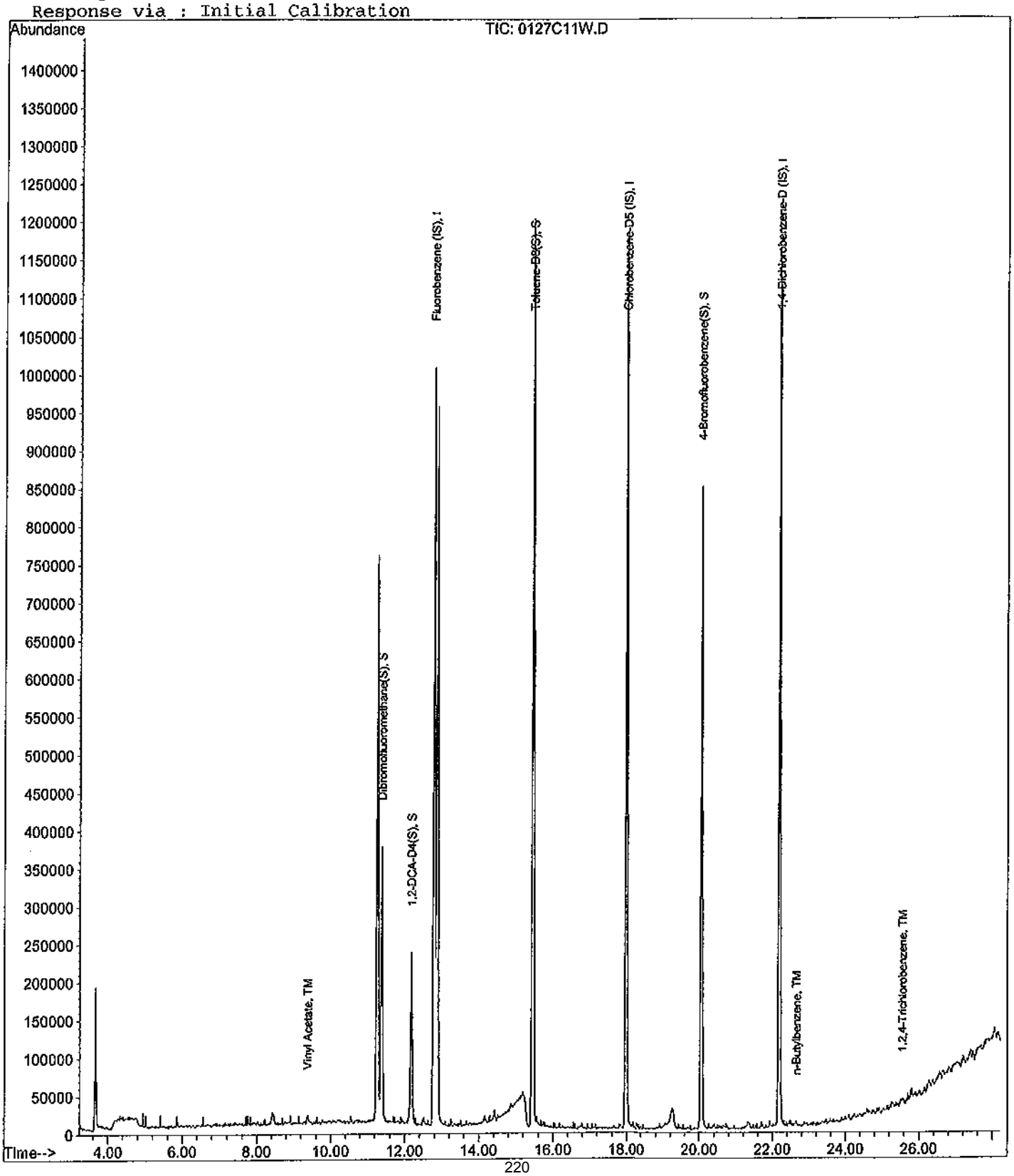
(#) = qualifier out of range (m) = manual integration

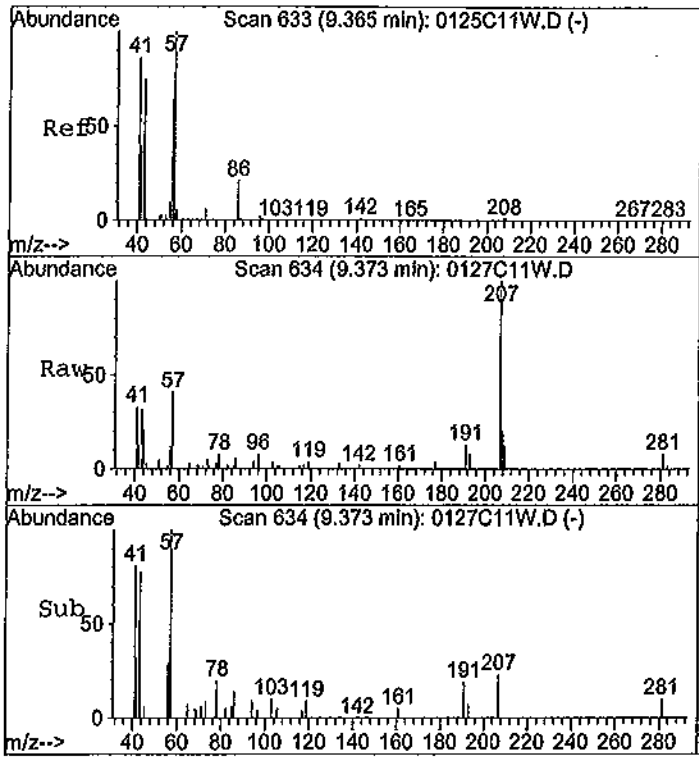
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C11W.D Vial: 1
Acq On : 27 Jan 12 16:16 Operator: RS, ARS
Sample : AY53809W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 31 11:35 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration

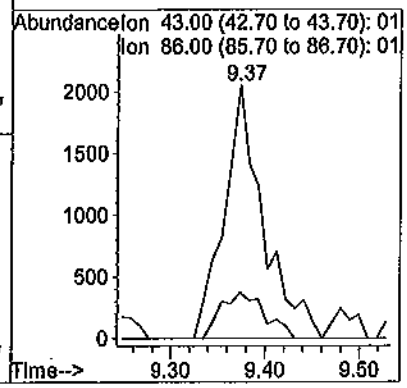


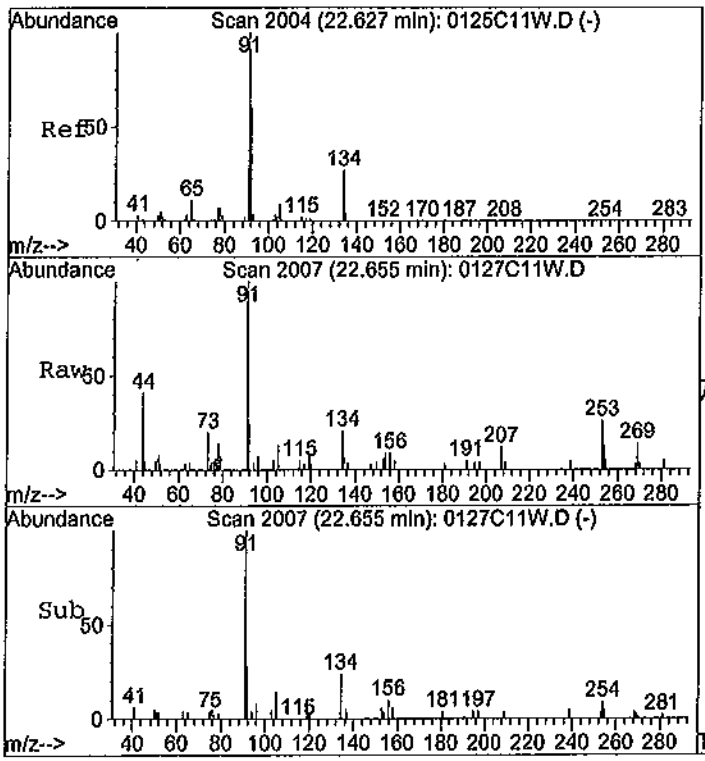


#25
Vinyl Acetate
Concen: 0.94128 ppb
RT: 9.37 min Scan# 634
Delta R.T. 0.01 min
Lab File: 0127C11W.D
Acq: 27 Jan 12 16:16

Tgt Ion: 43 Resp: 2053

Ion	Ratio	Lower	Upper
43	100		
86	18.3	20.0	37.1#

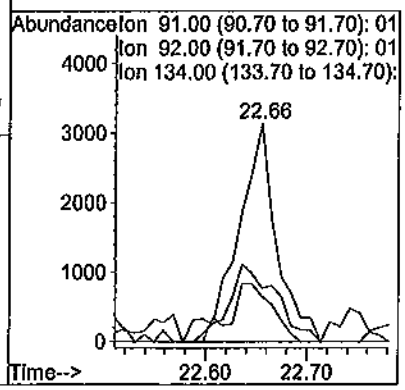


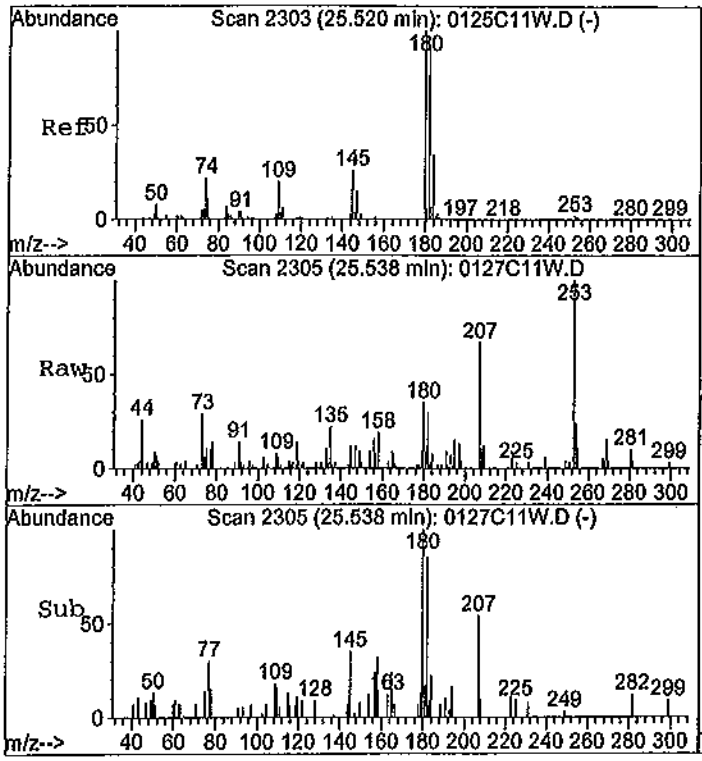


#90
n-Butylbenzene
Concen: 0.15256 ppb
RT: 22.66 min Scan# 2007
Delta R.T. 0.03 min
Lab File: 0127C11W.D
Acq: 27 Jan 12 16:16

Tgt Ion: 91 Resp: 8419

Ion	Ratio	Lower	Upper
91	100		
92	24.6	41.8	77.6#
134	20.9	19.2	35.6

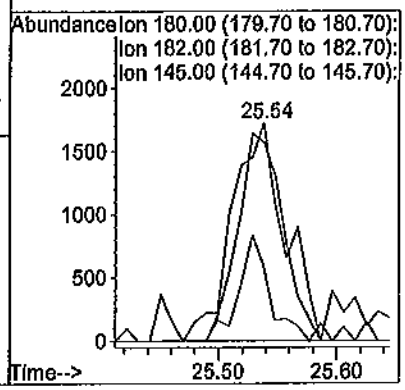




#93
1,2,4-Trichlorobenzene
Concen: 0.23611 ppb
RT: 25.54 min Scan# 2305
Delta R.T. 0.02 min
Lab File: 0127C11W.D
Acq: 27 Jan 12 16:16

Tgt Ion:180 Resp: 1721

Ion	Ratio	Lower	Upper
180	100		
182	91.4	67.7	125.7
145	34.5	18.2	33.8#



Quantitation Report (QT Reviewed)

Data File : M:\THOR\DATA\T120131\0131T25W.D Vial: 25
Acq On : 31 Jan 12 21:27 Operator:
Sample : AY53809W02 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:18 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	676608	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	538176	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	275072	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	315295	32.44523 ppb	0.00
Spiked Amount 32.661			Recovery =	99.338%	
36) 1,2-DCA-D4(S)	6.35	65	321649	30.46300 ppb	0.00
Spiked Amount 30.896			Recovery =	98.600%	
56) Toluene-D8(S)	8.45	98	1164458	34.31910 ppb	0.00
Spiked Amount 33.937			Recovery =	101.126%	
64) 4-Bromofluorobenzene(S)	11.06	95	423487	33.12184 ppb	0.00
Spiked Amount 33.154			Recovery =	99.904%	
Target Compounds					Qvalue
18) Methylene chloride	3.46	84	4524	0.56990 ppb #	73

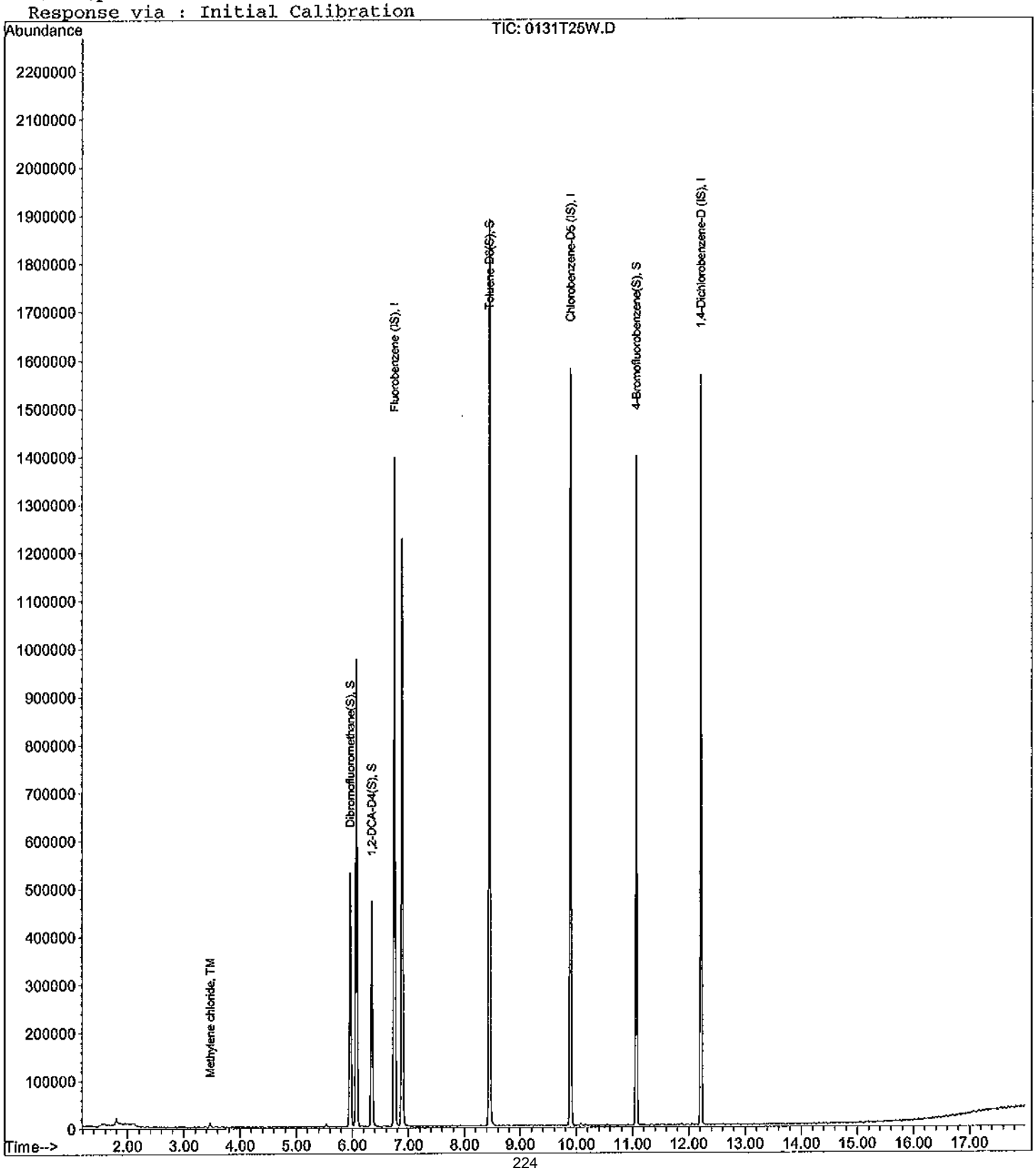
(#) = qualifier out of range (m) = manual integration

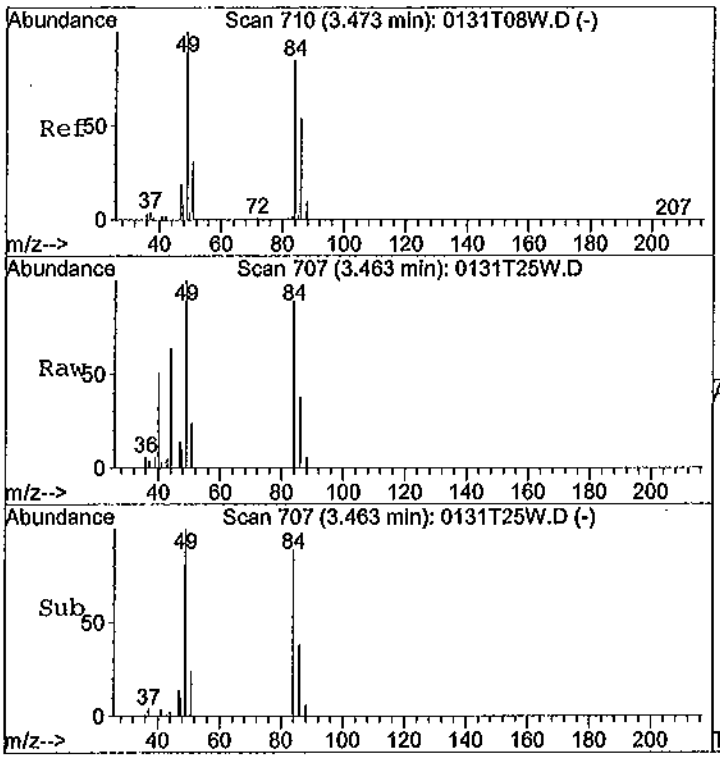
Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T25W.D Vial: 25
Acq On : 31 Jan 12 21:27 Operator:
Sample : AY53809W02 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:18 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration

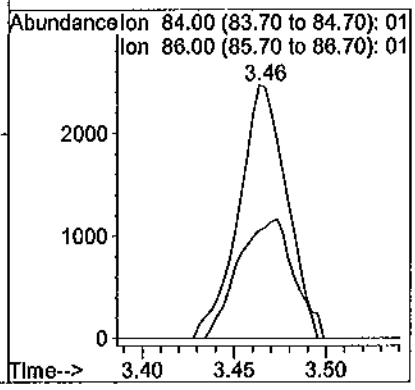




#18
Methylene chloride
Concen: 0.56990 ppb
RT: 3.46 min Scan# 707
Delta R.T. -0.01 min
Lab File: 0131T25W.D
Acq: 31 Jan 12 21:27

Tgt Ion: 84 Resp: 4524

Ion	Ratio	Lower	Upper
84	100		
86	42.7	44.4	82.4#



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C11W.D Vial: 1
Acq On : 27 Jan 12 16:16 Operator: RS, ARS
Sample : AY53809W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	997894	25.00000 ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1175870	25.00000 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1152398	25.00000 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Gasoline	15.58	TIC	17907636m	14.37641 ppb	100

No gasoline pattern 2/7/2012

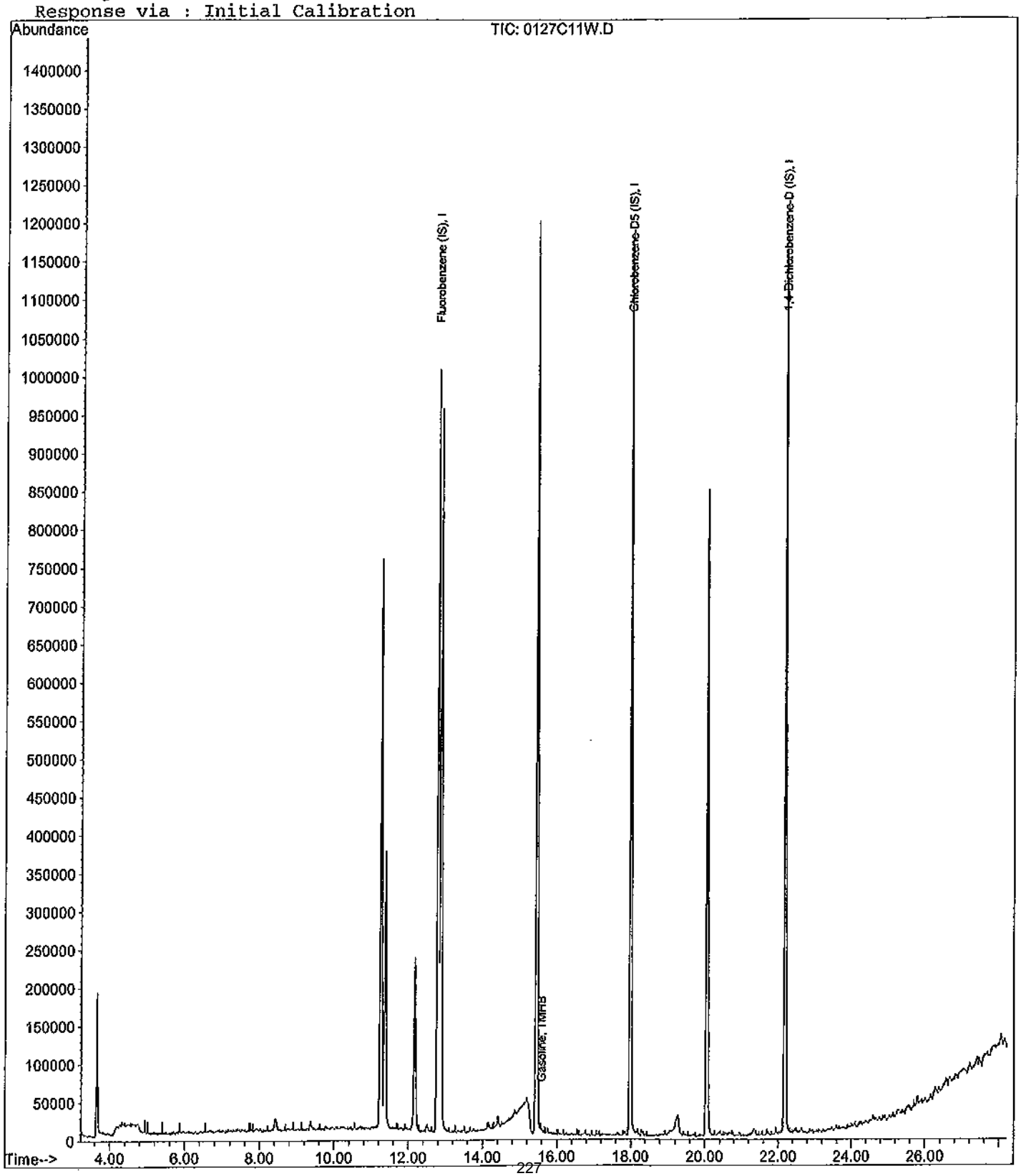
(#) = qualifier out of range (m) = manual integration
0127C11W.D CGAS.M Tue Feb 07 09:58:01 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C11W.D Vial: 1
Acq On : 27 Jan 12 16:16 Operator: RS, ARS
Sample : AY53809W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:48 2012 Quant Results File: CGAS.RES

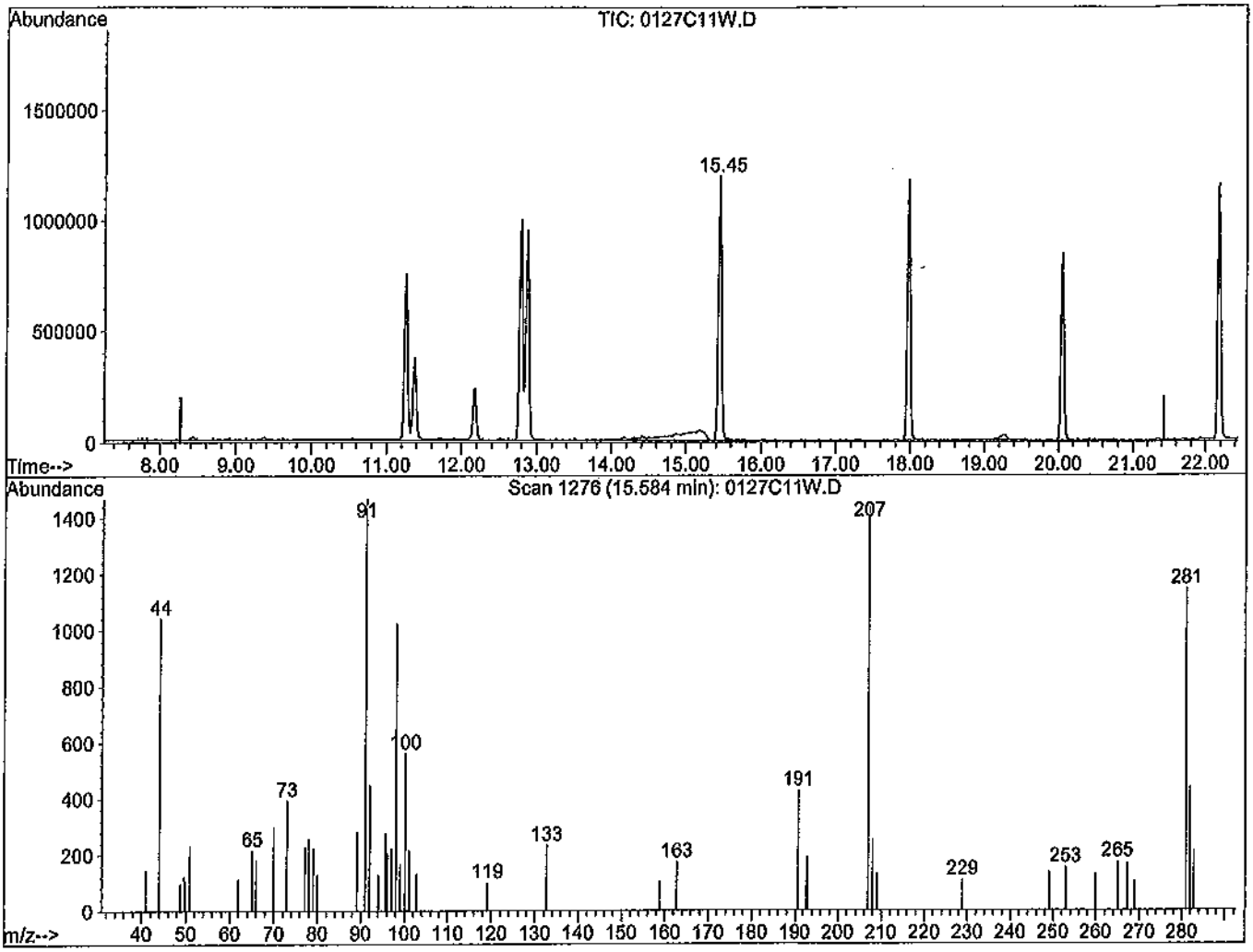
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C11W.D Vial: 1
Acq On : 27 Jan 12 16:16 Operator: RS, ARS
Sample : AY53809W01 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:48 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0127C11W.D

(2) Gasoline (TMHB)

15.58min 14.3764ppb m

response 17907636

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.65#
0.00	0.00	1.93#
0.00	0.00	0.00

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: 66826
Case No: Initial Cal. Date: 01/25/12
Matrix: Water Instrument: Chico
Initials:

		Compound	0125C07W.D 0.3	0125C08W.D 0.5	0125C09W.D 1	0125C10W.D 5	0125C11W.D 10	0125C12W.D 40	0125C13W.D 100				Avg	%RSD		r2
1	I	Fluorobenzene (IS)														
2	TMQ	Dichlorodifluoromethane		0.8105	0.7440	0.5541	0.8957	0.9210	0.8962				0.80	17	TMQ	1.000
3	TM	Freon 114	0.3205	0.3775	0.4185	0.3506	0.3703	0.4207	0.4132				0.38	10.0	TM	
4	TM**L	Chloromethane		0.5133	0.3941	0.3202	0.4015	0.3745	0.3630				0.39	16	TM**L	1.000
5	TM*	Vinyl chloride		0.3557	0.3342	0.2560	0.2411	0.2089					0.28	23	TM*	
6	TML	Bromomethane		0.0600	0.0845	0.1244	0.1514	0.1831	0.1925				0.13	40	TML	1.000
7	TM	Chloroethane	0.1833	0.2486	0.2128	0.1789	0.1980	0.1758	0.1678				0.20	14	TM	
8	TM	Dichlorofluoromethane	1.352	1.344	1.422	1.533	1.497	1.459	1.385				1.4	5.1	TM	
9	TM	Trichlorofluoromethane	0.1908	0.1927	0.1837	0.1603	0.1995	0.1960	0.1923				0.19	7.0	TM	
10		Acetonitrile	0.0277	0.0247	0.0271	0.0283	0.0255	0.0280	0.0243				0.03	6.2		
11	TM	Acrolein	0.0052	0.0046	0.0055	0.0061	0.0059	0.0059	0.0062				0.01	9.9	TM	
12	TML	Acetone		0.1801	0.1090	0.0617	0.0536	0.0527	0.0488				0.08	62	TML	0.999
13	TM	Freon-113	0.4574	0.5859	0.5857	0.5663	0.6064	0.6237	0.6137				0.58	9.7	TM	
14	TM*	1,1-DCE		0.3432	0.4799	0.3537	0.3405	0.3385	0.3345				0.37	16	TM*	
15	TM	t-Butanol	0.0032	0.0030	0.0023	0.0024	0.0029	0.0025	0.0029				0.00	12	TM	
16	TML	Methyl Acetate		0.2892	0.2696	0.1995	0.1917	0.1872	0.1809				0.22	21	TML	1.000
17	TML	Iodomethane		0.3403	0.6119	0.7906	0.8171	0.8261	0.8349				0.70	28	TML	1.000
18	TM	Acrylonitrile		0.0728	0.0611	0.0787	0.0684	0.0728	0.0707				0.07	8.2	TM	
19	TML	Methylene chloride		1.381	0.6556	0.4818	0.4302	0.4249	0.4014				0.63	60	TML	1.000
20	TM	Carbon disulfide	0.3908	0.3656	0.3489	0.3689	0.3695	0.3581	0.3539				0.37	3.8	TM	
21	TM	Methyl t-butyl ether (MtBE)	1.101	0.8921	0.8560	0.9226	0.9188	0.8793	0.8599				0.92	9.2	TM	
22	TML	Trans-1,2-DCE	0.5913	0.6946	0.5232	0.4370	0.4129	0.4124	0.4085				0.50	22	TML	1.000
23	TM	Diisopropyl Ether	1.850	2.014	1.909	2.078	2.050	1.968	1.847				2.0	4.8	TM	
24	TM**	1,1-DCA	1.003	0.9693	0.9522	1.004	1.024	0.9980	0.9578				0.99	2.8	TM**	
25	TML	Vinyl Acetate		0.1808	0.1260	0.1109	0.0978	0.0982	0.1013				0.12	27	TML	1.000
26	TM	Ethyl tert Butyl Ether	1.249	1.307	1.348	1.389	1.394	1.370	1.278				1.3	4.2	TM	
27	TMQ	MEK (2-Butanone)	0.0677	0.0829	0.0582	0.0524	0.0537	0.0514	0.0475				0.06	21	TMQ	1.000
28	TM	Cis-1,2-DCE	0.6210	0.7232	0.7399	0.6538	0.6493	0.6333	0.6032				0.66	7.8	TM	
29	TM	2,2-Dichloropropane		0.7244	0.7431	0.8916	0.8609	0.8684	0.8595				0.82	8.7	TM	
30	TM*	Chloroform	1.116	1.007	1.003	1.075	1.071	1.077	1.035				1.1	3.9	TM*	
31	TM	Bromochloromethane	0.1655	0.1940	0.2050	0.2126	0.2137	0.2102	0.2026				0.20	8.4	TM	
32	S	Dibromofluoromethane(S)		0.7135	0.6864	0.5813	0.6812	0.6741	0.6566				0.67	6.8	S	
33	TM	1,1,1-TCA	1.036	0.9185	0.8157	0.9042	0.8858	0.9190	0.8954				0.91	7.2	TM	
34	TM	Cyclohexane	0.8744	0.8572	0.7898	0.8849	0.8487	0.9143	0.9011				0.87	4.7	TM	
35	TM	1,1-Dichloropropene	0.6697	0.7123	0.6344	0.6036	0.5914	0.5938	0.5864				0.63	7.6	TM	

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66826
Case No: Initial Cal. Date: 01/25/12
Matrix: Water Instrument: Chico
Initials:

		Compound	0.3	0.5	1	5	10	40	100				Avg	%RSD		r2
36	TM	2,2,4-Trimethylpentane	1.812	1.793	1.777	1.582	1.555	1.628	1.661				1.7	6.3	TM	
37	S	1,2-DCA-D4(S)		0.5260	0.5162	0.4389	0.4835	0.4706	0.4457				0.48	7.4	S	
38	TML	Carbon Tetrachloride		0.2061	0.2964	0.5643	0.6003	0.6878	0.7049				0.51	41	TML	1.000
39	TM	Tert Amyl Methyl Ether	1.039	1.130	1.038	1.048	1.068	1.043	0.9962				1.1	3.9	TM	
40	TM	1,2-DCA		0.4668	0.4144	0.4668	0.4646	0.4441	0.4135				0.45	5.7	TM	
41	TM	Benzene	2.251	2.211	1.912	2.098	2.042	2.068	2.010				2.1	5.6	TM	
42	TM	TCE		0.5396	0.5620	0.5812	0.5934	0.5970	0.5799				0.58	3.7	TM	
43	TM	2-Pentanone	0.1380	0.1201	0.1398	0.1437	0.1526	0.1501	0.1469				0.14	7.7	TM	
44	TM*	1,2-Dichloropropane	0.4907	0.5325	0.5936	0.5717	0.5737	0.5605	0.5402				0.55	6.2	TM*	
45	TM	Bromodichloromethane		0.5758	0.5521	0.6445	0.6731	0.7052	0.6893				0.64	9.8	TM	
46	TM	Methyl Cyclohexane	0.7732	0.7719	0.7612	0.8224	0.8093	0.8475	0.8371				0.80	4.3	TM	
47	TM	Dibromomethane	0.2449	0.2121	0.1889	0.2427	0.2303	0.2369	0.2301				0.23	8.8	TM	
48	TM	2-Chloroethyl vinyl ether	0.1645	0.1298	0.1815	0.1665	0.1772	0.1833	0.1866				0.17	12	TM	
49	TM	1-Bromo-2-chloroethane	0.4502	0.4277	0.4385	0.4951	0.5007	0.5070	0.4900				0.47	6.9	TM	
50	TML	Cis-1,3-Dichloropropene	0.9510	1.078	0.6839	0.7735	0.7496	0.7792	0.7444				0.82	17	TML	1.000
51	TM*	Toluene	2.408	2.387	2.482	2.517	2.457	2.489	2.385				2.4	2.2	TM*	
52	TM	Trans-1,3-Dichloropropene	0.5833	0.4567	0.4529	0.5216	0.5636	0.5692	0.5664				0.53	10	TM	
53	TM	1,1,2-TCA	0.2222	0.1872	0.2433	0.2746	0.2761	0.2888	0.2702				0.25	14	TM	
54	I	Chlorobenzene-D5 (IS)														
55	S	Toluene-D8(S)		3.433	3.343	2.833	3.160	3.152	3.034				3.2	6.8	S	
56	TM	1,2-EDB	0.4114	0.3068	0.3329	0.3667	0.3933	0.4039	0.3903				0.37	11	TM	
57	TM	Tetrachloroethene	0.5773	0.7018	0.6666	0.7046	0.6798	0.7265	0.6908				0.68	7.1	TM	
58	TM	1-Chlorohexane	1.185	1.169	1.183	1.273	1.253	1.365	1.301				1.2	5.8	TM	
59	TM	1,1,1,2-Tetrachloroethane	0.6517	0.5940	0.6740	0.7148	0.7468	0.7753	0.7490				0.70	9.2	TM	
60	TM	m&p-Xylene		1.410	1.474	1.504	1.506	1.517	1.465				1.5	2.7	TM	
61	TM	o-Xylene		1.295	1.515	1.515	1.494	1.551	1.444				1.5	6.3	TM	
62	TM	Styrene	1.891	2.320	2.042	2.251	2.279	2.365	2.217				2.2	7.7	TM	
63	S	4-Bromofluorobenzene(S)		1.369	1.171	0.9602	1.069	1.061	0.9938				1.1	13	S	
64	TM	2-Hexanone	0.1421	0.1300	0.0956	0.1298	0.1511	0.1535	0.1472				0.14	15	TM	
65	TM	1,3-Dichloropropane	0.6238	0.7008	0.6692	0.7033	0.6934	0.7257	0.6776				0.68	4.8	TM	
66	TM	Dibromochloromethane	0.4923	0.3818	0.4350	0.4862	0.5359	0.5816	0.5695				0.50	14	TM	
67	TM**	Chlorobenzene	2.202	2.068	2.139	2.114	2.211	2.212	2.082				2.1	2.9	TM**	
68	TM*	Ethylbenzene	3.982	3.911	3.928	3.947	3.860	3.956	3.838				3.9	1.3	TM*	
69	TM**L	Bromoform		0.1822	0.1946	0.2435	0.2815	0.3172	0.3341				0.26	24	TM**L	1.000
70	I	1,4-Dichlorobenzene-D (IS)														

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

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

SDG No: 66826
Initial Cal. Date: 01/25/12
Instrument: Chico

Initials:

		Compound	0.3	0.5	1	5	10	40	100				Avg	%RSD		r2
71	TML	MIBK (methyl isobutyl ketone)	0.5744	0.6388	0.5688	0.4134	0.4480	0.4660	0.4471				0.51	17	TML	1.000
72	TM	Isopropylbenzene	7.460	7.293	7.224	7.660	7.588	7.665	7.419				7.5	2.3	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.6243	0.5413	0.7164	0.6836	0.7483	0.7693	0.7486				0.69	12	TM**	
74	TMQ	1,2,3-Trichloropropane	0.0851	0.1273	0.0988	0.0712	0.0747	0.0770	0.0665				0.09	25	TMQ	1.000
75	TML	t-1,4-Dichloro-2-Butene		0.1112	0.1449	0.1522	0.1633	0.1786	0.1760				0.15	16	TML	1.000
76	TM	Bromobenzene	1.951	1.783	1.732	1.804	1.720	1.751	1.656				1.8	5.2	TM	
77	TM	n-Propylbenzene	9.575	9.768	9.119	9.350	9.145	9.328	8.790				9.3	3.4	TM	
78	TM	4-Ethyltoluene	5.429	5.250	5.201	5.658	5.272	5.491	5.503				5.4	3.1	TM	
79	TM	2-Chlorotoluene	5.615	6.097	6.382	5.953	5.808	5.869	5.453				5.9	5.2	TM	
80	TM	1,3,5-Trimethylbenzene	5.864	6.228	6.076	6.146	6.172	6.311	5.765				6.1	3.2	TM	
81	TM	4-Chlorotoluene	5.662	5.453	5.308	5.109	5.029	5.023	4.929				5.2	5.1	TM	
82	TM	Tert-Butylbenzene	7.838	7.473	6.952	6.792	6.516	6.767	6.393				7.0	7.5	TM	
83	TM	1,2,4-Trimethylbenzene	5.563	6.212	6.027	6.202	6.156	6.260	5.896				6.0	4.1	TM	
84	TM	Sec-Butylbenzene	8.464	8.689	8.515	8.591	8.529	8.868	8.462				8.6	1.7	TM	
85	TM	p-Isopropyltoluene	6.817	7.192	6.726	6.954	6.794	7.010	6.787				6.9	2.4	TM	
86	TM	Benzyl Chloride	1.635	1.321	1.433	1.187	1.334	1.442	1.408				1.4	9.9	TM	
87	TM	1,3-DCB	3.671	3.318	3.456	3.570	3.519	3.555	3.328				3.5	3.7	TM	
88	TM	1,4-DCB	3.876	3.450	3.320	3.274	3.316	3.310	3.192				3.4	6.7	TM	
89	TML	Hexachloroethane	0.7536	0.6027	0.7594	1.152	1.367	1.640	1.628				1.1	38	TML	1.000
90	TM	n-Butylbenzene	6.921	6.552	6.159	6.161	6.127	6.368	6.028				6.3	5.0	TM	
91	TM	1,2-DCB	3.002	3.040	3.051	2.897	2.842	2.927	2.710				2.9	4.2	TM	
92	TM	1,2-Dibromo-3-chloropropane			0.0889	0.1094	0.0968	0.1209	0.1154				0.11	12	TM	
93	TM	1,2,4-Trichlorobenzene	0.8459	0.8820	0.7353	0.8408	0.8355	0.8778					0.84	6.4	TM	
94	TML	Hexachlorobutadiene		1.492	1.111	1.031	0.9530	1.028	1.012				1.1	18	TML	1.000
95	TM	Naphthalene	2.669	2.359	2.274	2.494	2.613	2.591	2.508				2.5	5.7	TM	
96	TM	1,2,3-Trichlorobenzene	0.7184	0.6204	0.7128	0.6431	0.6824	0.6853	0.6446				0.67	5.5	TM	
97																
98																
99																
100																
101																
102																
103																
104																
105																

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C07W.D Vial: 1
Acq On : 25 Jan 12 17:16 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.77	96	544160	25.00000	ppb		0.00
54) Chlorobenzene-D5 (IS)	17.96	117	439104	25.00000	ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	232000	25.00000	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	11.35	111	8372	0.57795	ppb		0.00
Spiked Amount 24.119			Recovery =	2.396%			
37) 1,2-DCA-D4(S)	12.16	65	6999	0.66967	ppb		0.00
Spiked Amount 22.874			Recovery =	2.929%			
55) Toluene-D8(S)	15.44	98	36281	0.65383	ppb		0.00
Spiked Amount 24.755			Recovery =	2.642%			
63) 4-Bromofluorobenzene(S)	20.04	95	15209	0.78424	ppb		0.00
Spiked Amount 26.777			Recovery =	2.928%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.04	85	3907	0.87829	ppb		92
3) Freon 114	4.30	85	2093	0.25198	ppb		92
5) Vinyl chloride	4.79	62	2712	0.44626	ppb		95
6) Bromomethane	5.68	94	565	1.48050	ppb		90
7) Chloroethane	5.88	64	1197	0.28196	ppb	#	84
8) Dichlorofluoromethane	5.96	67	8830	0.28419	ppb		97
9) Trichlorofluoromethane	6.48	103	1246	0.30466	ppb	#	71
10) Acetonitrile	7.61	41	9028	15.64202	ug/l		100
11) Acrolein	7.11	56	1693	13.82688	ppb	#	13
12) Acetone	7.23	43	1872	0.18650	ppb		95
13) Freon-113	7.40	101	2987	0.23782	ppb	#	59
14) 1,1-DCE	7.59	96	861	0.10836	ppb	#	92
15) t-Butanol	7.72	59	1044	17.48493	ppb	#	88
17) Iodomethane	8.10	142	1812	0.40164	ppb	#	69
18) Acrylonitrile	8.51	53	641	0.41626	ppb		79
19) Methylene chloride	8.42	84	17045	0.80865	ppb		91
20) Carbon disulfide	8.50	76	2552	0.32113	ppb	#	76
21) Methyl t-butyl ether (MtBE	8.84	73	7190	0.35962	ppb		94
22) Trans-1,2-DCE	9.03	96	3861	0.15682	ppb	#	32
23) Diisopropyl Ether	9.69	45	12082	0.28328	ppb	#	84
24) 1,1-DCA	9.72	63	6552	0.30500	ppb	#	89
25) Vinyl Acetate	9.36	43	2132	0.92014	ppb	#	70
26) Ethyl tert Butyl Ether	10.39	59	8158	0.28106	ppb	#	72
27) MEK (2-Butanone)	10.36	43	442	0.28457	ppb	#	69
28) Cis-1,2-DCE	10.73	96	4055	0.28204	ppb	#	41
29) 2,2-Dichloropropane	10.75	77	6583	0.36675	ppb	#	84
30) Chloroform	11.03	83	7285	0.31734	ppb	#	74
31) Bromochloromethane	11.24	128	1081	0.24768	ppb	#	1
33) 1,1,1-TCA	11.78	97	6762	0.34117	ppb		90
34) Cyclohexane	11.91	56	5710	0.30250	ppb	#	68
35) 1,1-Dichloropropene	12.03	75	4373	0.32023	ppb	#	70
36) 2,2,4-Trimethylpentane	12.11	57	11830	0.32226	ppb	#	75
38) Carbon Tetrachloride	12.25	117	1544	1.01150	ppb	#	63
39) Tert Amyl Methyl Ether	12.28	73	6787	0.29648	ppb		97
40) 1,2-DCA	12.32	62	2276	0.23497	ppb	#	75
41) Benzene	12.44	78	14701	0.32403	ppb		92
42) TCE	13.48	95	3245	0.25905	ppb	#	77
43) 2-Pentanone	13.14	43	45058	14.61871	ppb		99
44) 1,2-Dichloropropane	13.70	63	3204	0.26673	ppb	#	91

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C07W.D Vial: 1
Acq On : 25 Jan 12 17:16 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	Bromodichloromethane	14.05	83	3550	0.25484	ppb	#	89
46)	Methyl Cyclohexane	13.75	83	5049	0.28879	ppb		94
47)	Dibromomethane	14.11	93	1599	0.32427	ppb	#	58
48)	2-Chloroethyl vinyl ether	14.51	63	1074	0.29041	ppb	#	73
49)	1-Bromo-2-chloroethane	14.81	63	2940	0.28572	ppb		89
50)	Cis-1,3-Dichloropropene	14.95	75	6210	0.10962	ppb		92
51)	Toluene	15.56	91	15727	0.29533	ppb		95
52)	Trans-1,3-Dichloropropene	15.74	75	3809	0.32985	ppb		84
53)	1,1,2-TCA	16.01	83	1451	0.26477	ppb		79
56)	1,2-EDB	17.26	107	2168	0.33162	ppb	#	54
57)	Tetrachloroethene	16.73	164	3042	0.25537	ppb		90
58)	1-Chlorohexane	17.64	91	6242	0.28498	ppb		87
59)	1,1,1,2-Tetrachloroethane	18.10	131	3434	0.27898	ppb		83
60)	m&p-Xylene	18.29	106	14296	0.55024	ppb		100
61)	o-Xylene	19.03	106	8050	0.31198	ppb		96
64)	2-Hexanone	16.00	43	749	0.31448	ppb	#	25
65)	1,3-Dichloropropane	16.42	76	3287	0.27327	ppb		83
66)	Dibromochloromethane	16.91	129	2594	0.29688	ppb		82
67)	Chlorobenzene	18.03	112	11601	0.30766	ppb		85
68)	Ethylbenzene	18.15	91	20984	0.30497	ppb		95
69)	Bromoform	19.57	173	600	1.17155	ppb	#	65
71)	MIBK (methyl isobutyl keto	14.60	43	1599	0.17791	ppb	#	42
72)	Isopropylbenzene	19.67	105	20769	0.29949	ppb		91
73)	1,1,2,2-Tetrachloroethane	19.82	83	1738	0.27132	ppb	#	95
74)	1,2,3-Trichloropropane	20.08	110	237	0.45743	ppb		98
75)	t-1,4-Dichloro-2-Butene	20.14	53	92	0.39647	ppb	#	55
76)	Bromobenzene	20.40	156	5432	0.33049	ppb	#	67
77)	n-Propylbenzene	20.37	91	26657	0.30900	ppb		89
78)	4-Ethyltoluene	20.57	105	15114	0.30158	ppb		97
79)	2-Chlorotoluene	20.66	91	15631	0.28634	ppb		96
80)	1,3,5-Trimethylbenzene	20.64	105	16326	0.28935	ppb		81
81)	4-Chlorotoluene	20.74	91	15764	0.32566	ppb		90
82)	Tert-Butylbenzene	21.28	119	21822	0.33779	ppb		87
83)	1,2,4-Trimethylbenzene	21.33	105	15486	0.27604	ppb		91
84)	Sec-Butylbenzene	21.68	105	23563	0.29564	ppb		92
85)	p-Isopropyltoluene	21.91	119	18978	0.29650	ppb		93
86)	Benzyl Chloride	22.36	91	4551	0.35174	ppb		97
87)	1,3-DCB	22.06	146	10219	0.31569	ppb		94
88)	1,4-DCB	22.22	146	10790	0.34286	ppb		92
89)	Hexachloroethane	23.54	117	2098	0.86969	ppb	#	12
90)	n-Butylbenzene	22.63	91	19268	0.32797	ppb		97
91)	1,2-DCB	22.86	146	8358	0.30800	ppb	#	86
92)	1,2-Dibromo-3-chloropropan	24.04	155	71	0.07198	ppb	#	83
93)	1,2,4-Trichlorobenzene	25.53	180	2355	0.30348	ppb		85
94)	Hexachlorobutadiene	25.76	223	4351	0.40606	ppb		82
95)	Naphthalene	25.87	128	7430	0.32013	ppb	#	87
96)	1,2,3-Trichlorobenzene	26.23	180	2000	0.32050	ppb		86

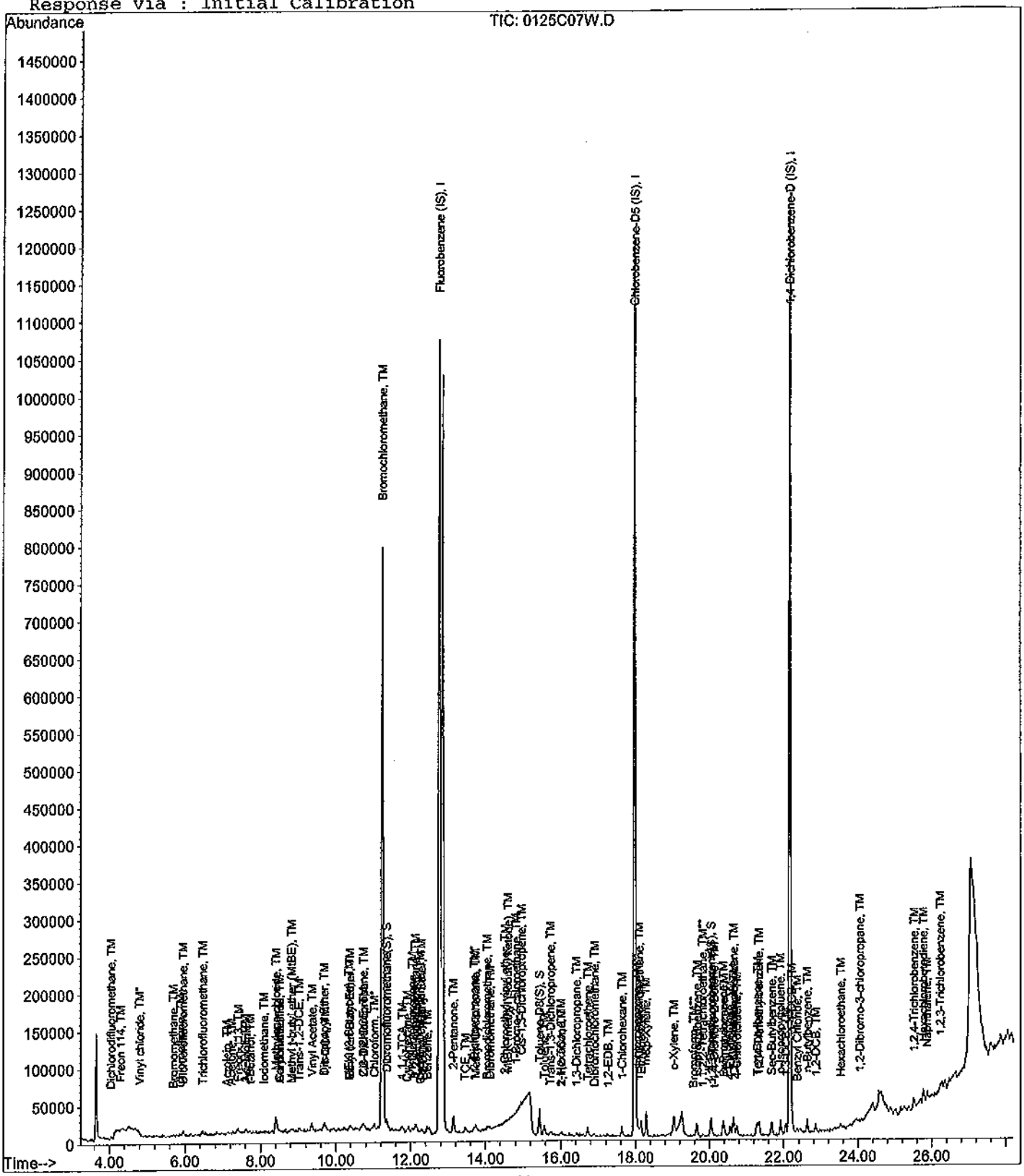
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C07W.D Vial: 1
Acq On : 25 Jan 12 17:16 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C08W.D Vial: 1
Acq On : 25 Jan 12 17:53 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.77	96	570373	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	17.96	117	448960	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	233792	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.36	111	16278	1.07208 ppb		0.00
Spiked Amount 24.119			Recovery =	4.445%		
37) 1,2-DCA-D4(S)	12.16	65	12000	1.09541 ppb		0.00
Spiked Amount 22.874			Recovery =	4.787%		
55) Toluene-D8(S)	15.43	98	61658	1.08676 ppb		0.00
Spiked Amount 24.755			Recovery =	4.391%		
63) 4-Bromofluorobenzene(S)	20.03	95	24589	1.24008 ppb		0.00
Spiked Amount 26.777			Recovery =	4.631%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.04	85	9246	1.11550 ppb		96
3) Freon 114	4.28	85	4306	0.49459 ppb		91
4) Chloromethane	4.52	50	5855	0.38803 ppb		90
5) Vinyl chloride	4.79	62	4058	0.63706 ppb		87
6) Bromomethane	5.68	94	684	1.50121 ppb		80
7) Chloroethane	5.87	64	2836	0.63735 ppb		97
8) Dichlorofluoromethane	5.97	67	15335	0.47088 ppb		99
9) Trichlorofluoromethane	6.46	103	2198	0.51274 ppb		86
10) Acetonitrile	7.61	41	14087	23.28560 ug/l		100
11) Acrolein	7.10	56	2641	20.57800 ppb		98
12) Acetone	7.23	43	2055	0.27063 ppb	#	49
13) Freon-113	7.40	101	6684	0.50772 ppb		89
14) 1,1-DCE	7.62	96	3915	0.47008 ppb	#	59
15) t-Butanol	7.70	59	1712	27.35488 ppb	#	80
16) Methyl Acetate	8.14	43	3299	0.18035 ppb		99
17) Iodomethane	8.11	142	3882	0.50550 ppb	#	65
18) Acrylonitrile	8.54	53	831	0.51484 ppb	#	9
19) Methylene chloride	8.41	84	15756	0.57681 ppb		85
20) Carbon disulfide	8.50	76	4171	0.50074 ppb	#	82
21) Methyl t-butyl ether (MtBE	8.85	73	10177	0.48562 ppb		92
22) Trans-1,2-DCE	9.04	96	7924	0.57374 ppb		78
23) Diisopropyl Ether	9.69	45	22977	0.51396 ppb	#	82
24) 1,1-DCA	9.72	63	11057	0.49106 ppb	#	90
25) Vinyl Acetate	9.35	43	2063	0.84547 ppb		98
26) Ethyl tert Butyl Ether	10.38	59	14912	0.49014 ppb		97
27) MEK (2-Butanone)	10.38	43	946	0.67885 ppb	#	69
28) Cis-1,2-DCE	10.76	96	8250	0.54745 ppb	#	71
29) 2,2-Dichloropropane	10.74	77	8264	0.43924 ppb	#	66
30) Chloroform	11.03	83	11482	0.47717 ppb		94
31) Bromochloromethane	11.26	128	2213	0.48375 ppb	#	61
33) 1,1,1-TCA	11.77	97	10478	0.50436 ppb		91
34) Cyclohexane	11.93	56	9779	0.49425 ppb		87
35) 1,1-Dichloropropene	12.04	75	8126	0.56771 ppb		90
36) 2,2,4-Trimethylpentane	12.11	57	20448	0.53142 ppb		94
38) Carbon Tetrachloride	12.25	117	2351	1.05673 ppb		81
39) Tert Amyl Methyl Ether	12.28	73	12890	0.53720 ppb	#	91
40) 1,2-DCA	12.30	62	5325	0.52447 ppb		99
41) Benzene	12.43	78	25218	0.53029 ppb		95
42) TCE	13.46	95	6155	0.46877 ppb		91

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C08W.D Vial: 1
Acq On : 25 Jan 12 17:53 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.14	43	68498	21.20229	ppb		93
44)	1,2-Dichloropropane	13.71	63	6075	0.48250	ppb	#	87
45)	Bromodichloromethane	14.05	83	6568	0.44982	ppb	#	94
46)	Methyl Cyclohexane	13.75	83	8805	0.48048	ppb		93
47)	Dibromomethane	14.10	93	2419	0.46801	ppb	#	65
48)	2-Chloroethyl vinyl ether	14.51	63	1481	0.38206	ppb	#	73
49)	1-Bromo-2-chloroethane	14.81	63	4879	0.45237	ppb		90
50)	Cis-1,3-Dichloropropene	14.94	75	12297	0.44945	ppb		94
51)	Toluene	15.57	91	27232	0.48787	ppb		97
52)	Trans-1,3-Dichloropropene	15.73	75	5210	0.43044	ppb		100
53)	1,1,2-TCA	16.00	83	2135	0.37167	ppb		79
56)	1,2-EDB	17.26	107	2755	0.41215	ppb	#	58
57)	Tetrachloroethene	16.72	164	6302	0.51743	ppb	#	74
58)	1-Chlorohexane	17.64	91	10496	0.46868	ppb		85
59)	1,1,1,2-Tetrachloroethane	18.07	131	5334	0.42383	ppb		80
60)	m&p-Xylene	18.29	106	25322	0.95322	ppb		93
61)	o-Xylene	19.04	106	11632	0.44091	ppb		86
62)	Styrene	19.05	104	20833	0.52849	ppb		92
64)	2-Hexanone	15.99	43	177	0.07269	ppb	#	25
65)	1,3-Dichloropropane	16.42	76	6293	0.51170	ppb	#	61
66)	Dibromochloromethane	16.90	129	3428	0.38372	ppb		99
67)	Chlorobenzene	18.03	112	18573	0.48174	ppb		96
68)	Ethylbenzene	18.15	91	35115	0.49913	ppb		89
69)	Bromoform	19.56	173	1636	1.34106	ppb	#	32
71)	MIBK (methyl isobutyl keto	14.62	43	2987	0.50596	ppb		97
72)	Isopropylbenzene	19.66	105	34102	0.48798	ppb	#	89
73)	1,1,2,2-Tetrachloroethane	19.82	83	2531	0.39209	ppb	#	66
74)	1,2,3-Trichloropropane	20.07	110	595	0.91630	ppb	#	19
75)	t-1,4-Dichloro-2-Butene	20.12	53	520	0.65455	ppb	#	51
76)	Bromobenzene	20.40	156	8338	0.50340	ppb		82
77)	n-Propylbenzene	20.37	91	45672	0.52535	ppb		95
78)	4-Ethyltoluene	20.57	105	24548	0.48607	ppb		99
79)	2-Chlorotoluene	20.66	91	28507	0.51820	ppb		94
80)	1,3,5-Trimethylbenzene	20.63	105	29122	0.51217	ppb		96
81)	4-Chlorotoluene	20.74	91	25499	0.52273	ppb		91
82)	Tert-Butylbenzene	21.27	119	34942	0.53673	ppb		93
83)	1,2,4-Trimethylbenzene	21.34	105	29046	0.51379	ppb		82
84)	Sec-Butylbenzene	21.68	105	40629	0.50586	ppb		97
85)	p-Isopropyltoluene	21.91	119	33628	0.52136	ppb		94
86)	Benzyl Chloride	22.35	91	6177	0.47375	ppb		95
87)	1,3-DCB	22.05	146	15513	0.47556	ppb		95
88)	1,4-DCB	22.22	146	16133	0.50871	ppb	#	88
89)	Hexachloroethane	23.53	117	2818	0.91552	ppb		86
90)	n-Butylbenzene	22.63	91	30637	0.51748	ppb		97
91)	1,2-DCB	22.86	146	14213	0.51974	ppb		93
92)	1,2-Dibromo-3-chloropropan	24.07	155	779	0.78370	ppb	#	30
93)	1,2,4-Trichlorobenzene	25.52	180	4124	0.52737	ppb		97
94)	Hexachlorobutadiene	25.77	223	6978	0.67994	ppb		97
95)	Naphthalene	25.88	128	11028	0.47151	ppb		98
96)	1,2,3-Trichlorobenzene	26.22	180	2901	0.46133	ppb		86

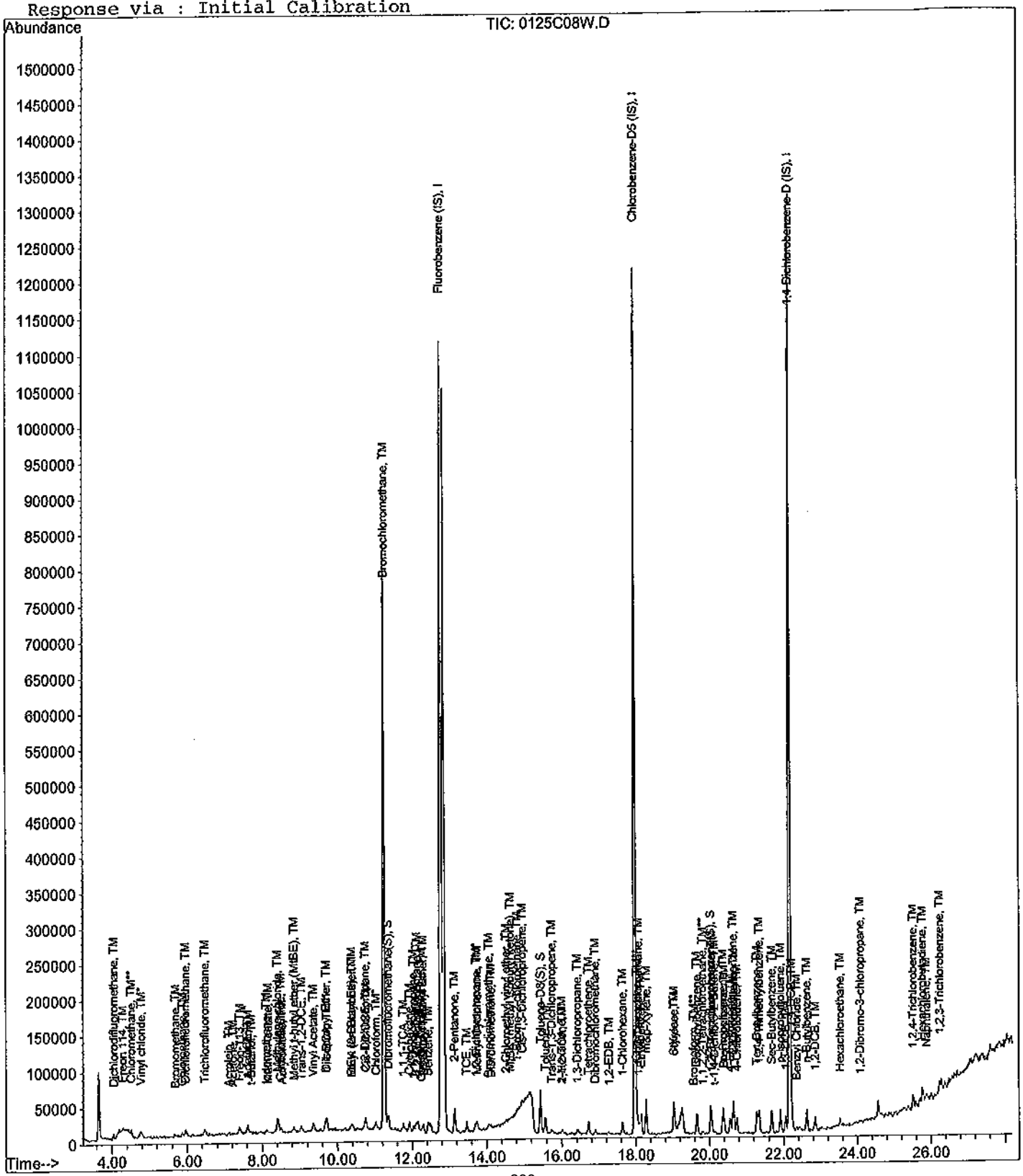
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C08W.D Vial: 1
Acq On : 25 Jan 12 17:53 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C09W.D Vial: 1
Acq On : 25 Jan 12 18:30 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.77	96	567492	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	17.97	117	451456	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	236096	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.35	111	31163	2.06284 ppb		0.00
Spiked Amount 24.119			Recovery =	8.553%		
37) 1,2-DCA-D4(S)	12.16	65	23435	2.15010 ppb		0.00
Spiked Amount 22.874			Recovery =	9.399%		
55) Toluene-D8(S)	15.43	98	120732	2.11621 ppb		0.00
Spiked Amount 24.755			Recovery =	8.548%		
63) 4-Bromofluorobenzene(S)	20.04	95	42304	2.12169 ppb		0.00
Spiked Amount 26.777			Recovery =	7.925%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.04	85	16888	1.47149 ppb		93
3) Freon 114	4.31	85	9499	1.09660 ppb		90
4) Chloromethane	4.52	50	8946	0.76644 ppb		98
5) Vinyl chloride	4.79	62	7587	1.19712 ppb		92
6) Bromomethane	5.68	94	1919	1.78211 ppb	#	66
7) Chloroethane	5.87	64	4831	1.09120 ppb		96
8) Dichlorofluoromethane	5.96	67	32290	0.99653 ppb		93
9) Trichlorofluoromethane	6.46	103	4169	0.97747 ppb		93
10) Acetonitrile	7.59	41	30779	51.13552 ug/l		100
11) Acrolein	7.10	56	6231	48.79685 ppb		96
12) Acetone	7.24	43	2474	0.66173 ppb	#	84
13) Freon-113	7.40	101	13295	1.01502 ppb		93
14) 1,1-DCE	7.61	96	10894	1.31471 ppb		96
15) t-Butanol	7.70	59	2614	41.97936 ppb		99
16) Methyl Acetate	8.13	43	6119	0.87301 ppb		94
17) Iodomethane	8.11	142	13890	1.03343 ppb	#	82
18) Acrylonitrile	8.50	53	1387	0.86367 ppb	#	67
19) Methylene chloride	8.41	84	14883	0.48919 ppb		99
20) Carbon disulfide	8.50	76	7919	0.95553 ppb		99
21) Methyl t-butyl ether (MtBE	8.82	73	19432	0.93196 ppb	#	81
22) Trans-1,2-DCE	9.03	96	11876	1.00520 ppb		95
23) Diisopropyl Ether	9.69	45	43342	0.97442 ppb		98
24) 1,1-DCA	9.71	63	21615	0.96482 ppb	#	95
25) Vinyl Acetate	9.36	43	2861	1.19879 ppb	#	80
26) Ethyl tert Butyl Ether	10.38	59	30596	1.01077 ppb	#	86
27) MEK (2-Butanone)	10.37	43	1320	0.99007 ppb	#	69
28) Cis-1,2-DCE	10.74	96	16795	1.12013 ppb		94
29) 2,2-Dichloropropane	10.75	77	16868	0.90111 ppb		100
30) Chloroform	11.02	83	22769	0.95104 ppb		91
31) Bromochloromethane	11.24	128	4654	1.02250 ppb	#	55
33) 1,1,1-TCA	11.76	97	18516	0.89579 ppb		99
34) Cyclohexane	11.93	56	17929	0.91077 ppb		91
35) 1,1-Dichloropropene	12.04	75	14401	1.01122 ppb		96
36) 2,2,4-Trimethylpentane	12.10	57	40334	1.05355 ppb		97
38) Carbon Tetrachloride	12.23	117	6728	1.32906 ppb		77
39) Tert Amyl Methyl Ether	12.29	73	23556	0.98670 ppb	#	83
40) 1,2-DCA	12.31	62	9406	0.93112 ppb	#	82
41) Benzene	12.42	78	43396	0.91717 ppb		97
42) TCE	13.46	95	12757	0.97652 ppb		91

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C09W.D Vial: 1
Acq On : 25 Jan 12 18:30 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.13	43	158637	49.35243	ppb		99
44)	1,2-Dichloropropane	13.69	63	13474	1.07559	ppb	#	93
45)	Bromodichloromethane	14.04	83	12532	0.86264	ppb	#	95
46)	Methyl Cyclohexane	13.75	83	17279	0.94768	ppb		97
47)	Dibromomethane	14.10	93	4287	0.83363	ppb		85
48)	2-Chloroethyl vinyl ether	14.49	63	4119	1.06799	ppb		86
49)	1-Bromo-2-chloroethane	14.81	63	9953	0.92750	ppb		93
50)	Cis-1,3-Dichloropropene	14.93	75	15524	0.64354	ppb		92
51)	Toluene	15.56	91	56349	1.01464	ppb		100
52)	Trans-1,3-Dichloropropene	15.74	75	10280	0.85362	ppb		89
53)	1,1,2-TCA	16.01	83	5523	0.96636	ppb	#	58
56)	1,2-EDB	17.25	107	6012	0.89443	ppb	#	98
57)	Tetrachloroethene	16.72	164	12037	0.98283	ppb		87
58)	1-Chlorohexane	17.64	91	21368	0.94887	ppb		97
59)	1,1,1,2-Tetrachloroethane	18.08	131	12171	0.96174	ppb		97
60)	m&p-Xylene	18.28	106	53224	1.99249	ppb		98
61)	o-Xylene	19.03	106	27361	1.03138	ppb		71
62)	Styrene	19.05	104	36876	0.93029	ppb		97
64)	2-Hexanone	16.07	43	1726	0.70487	ppb		96
65)	1,3-Dichloropropane	16.43	76	12084	0.97715	ppb	#	82
66)	Dibromochloromethane	16.89	129	7856	0.87452	ppb		82
67)	Chlorobenzene	18.02	112	38635	0.99657	ppb		96
68)	Ethylbenzene	18.14	91	70940	1.00279	ppb		97
69)	Bromoform	19.57	173	3514	1.64917	ppb		95
71)	MIBK (methyl isobutyl keto	14.62	43	5372	1.06220	ppb		85
72)	Isopropylbenzene	19.66	105	68226	0.96674	ppb		95
73)	1,1,2,2-Tetrachloroethane	19.82	83	6766	1.03793	ppb	#	74
74)	1,2,3-Trichloropropane	20.06	110	933	1.34077	ppb	#	72
75)	t-1,4-Dichloro-2-Butene	20.13	53	1368	1.15869	ppb	#	73
76)	Bromobenzene	20.39	156	16361	0.97815	ppb		88
77)	n-Propylbenzene	20.36	91	86117	0.98091	ppb		99
78)	4-Ethyltoluene	20.56	105	49118	0.96309	ppb		100
79)	2-Chlorotoluene	20.66	91	60274	1.08497	ppb		92
80)	1,3,5-Trimethylbenzene	20.64	105	57382	0.99934	ppb		93
81)	4-Chlorotoluene	20.74	91	50126	1.01756	ppb		95
82)	Tert-Butylbenzene	21.28	119	65649	0.99857	ppb		94
83)	1,2,4-Trimethylbenzene	21.33	105	56922	0.99705	ppb		85
84)	Sec-Butylbenzene	21.68	105	80418	0.99149	ppb		99
85)	p-Isopropyltoluene	21.91	119	63519	0.97517	ppb		94
86)	Benzyl Chloride	22.35	91	13537	1.02809	ppb		90
87)	1,3-DCB	22.05	146	32641	0.99086	ppb		93
88)	1,4-DCB	22.22	146	31355	0.97904	ppb		94
89)	Hexachloroethane	23.53	117	7172	1.19446	ppb		90
90)	n-Butylbenzene	22.62	91	58161	0.97280	ppb		92
91)	1,2-DCB	22.85	146	28813	1.04335	ppb		95
92)	1,2-Dibromo-3-chloropropan	24.20	155	332	0.33074	ppb		90
93)	1,2,4-Trichlorobenzene	25.52	180	6944	0.87932	ppb		91
94)	Hexachlorobutadiene	25.76	223	10492	1.04022	ppb		84
95)	Naphthalene	25.87	128	21471	0.90904	ppb		99
96)	1,2,3-Trichlorobenzene	26.23	180	6732	1.06010	ppb		92

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

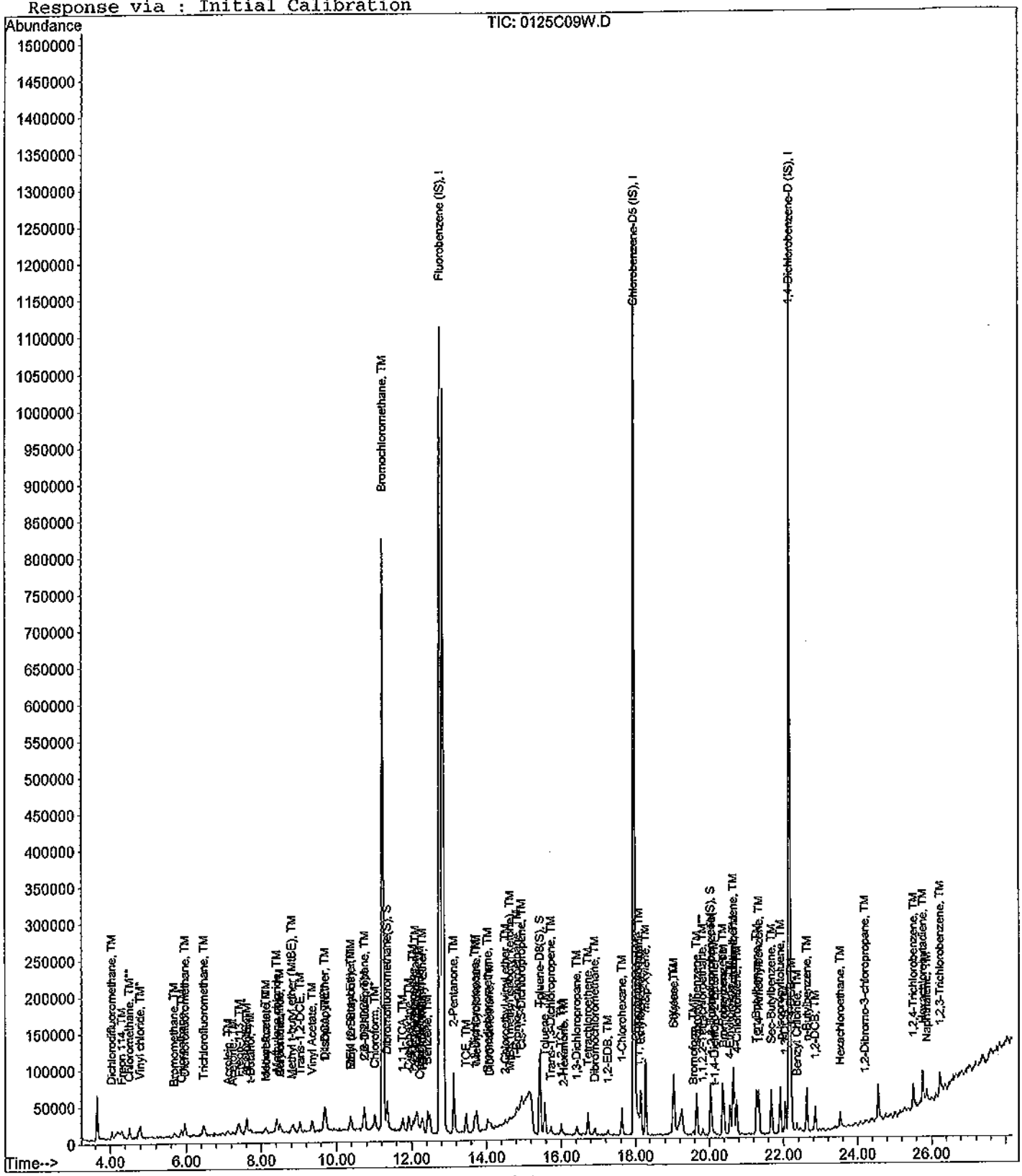
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C09W.D
Acq On : 25 Jan 12 18:30
Sample : Vol. Std. 01-25-12@1.0ug/L
Misc : Water 10mLw/ IS&S:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C10W.D Vial: 1
Acq On : 25 Jan 12 19:07 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.77	96	556179	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	17.96	117	453376	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	239104	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.36	111	129313	8.73400 ppb		0.00
Spiked Amount 24.119			Recovery	= 36.212%		
37) 1,2-DCA-D4(S)	12.16	65	97644	9.14081 ppb		0.00
Spiked Amount 22.874			Recovery	= 39.962%		
55) Toluene-D8(S)	15.43	98	513809	8.96798 ppb		0.00
Spiked Amount 24.755			Recovery	= 36.227%		
63) 4-Bromofluorobenzene(S)	20.03	95	174130	8.69624 ppb		0.00
Spiked Amount 26.777			Recovery	= 32.475%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.04	85	61634	3.60407 ppb		99
3) Freon 114	4.29	85	39001	4.59400 ppb		95
4) Chloromethane	4.52	50	35617	4.08849 ppb		96
5) Vinyl chloride	4.79	62	28480	4.58516 ppb		99
6) Bromomethane	5.68	94	13833	4.54820 ppb		94
7) Chloroethane	5.87	64	19896	4.58541 ppb		92
8) Dichlorofluoromethane	5.96	67	170496	5.36884 ppb		97
9) Trichlorofluoromethane	6.47	103	17832	4.26594 ppb		81
10) Acetonitrile	7.60	41	63024	106.83641 ug/l		100
11) Acrolein	7.11	56	13535	108.15272 ppb		89
12) Acetone	7.24	43	6861	4.78479 ppb		96
13) Freon-113	7.40	101	62998	4.90746 ppb		96
14) 1,1-DCE	7.62	96	39339	4.84407 ppb		92
15) t-Butanol	7.70	59	5430	88.97648 ppb		99
16) Methyl Acetate	8.13	43	22190	4.90746 ppb		92
17) Iodomethane	8.11	142	87938	5.02604 ppb		98
18) Acrylonitrile	8.50	53	8752	5.56063 ppb	#	69
19) Methylene chloride	8.42	84	53591	4.88420 ppb		85
20) Carbon disulfide	8.49	76	41040	5.05271 ppb		97
21) Methyl t-butyl ether (MtBE	8.83	73	102628	5.02214 ppb		93
22) Trans-1,2-DCE	9.03	96	48613	5.08266 ppb		90
23) Diisopropyl Ether	9.68	45	231146	5.30235 ppb		90
24) 1,1-DCA	9.72	63	111662	5.08561 ppb		94
25) Vinyl Acetate	9.36	43	12332	5.44771 ppb		100
26) Ethyl tert Butyl Ether	10.38	59	154461	5.20657 ppb	#	89
27) MEK (2-Butanone)	10.38	43	5826	4.80824 ppb	#	90
28) Cis-1,2-DCE	10.75	96	72731	4.94942 ppb		97
29) 2,2-Dichloropropane	10.74	77	99174	5.40577 ppb		96
30) Chloroform	11.03	83	119532	5.09431 ppb		96
31) Bromochloromethane	11.26	128	23651	5.30191 ppb	#	79
33) 1,1,1-TCA	11.76	97	100574	4.96467 ppb		99
34) Cyclohexane	11.94	56	98431	5.10188 ppb		98
35) 1,1-Dichloropropene	12.03	75	67142	4.81052 ppb		90
36) 2,2,4-Trimethylpentane	12.11	57	175956	4.68955 ppb		96
38) Carbon Tetrachloride	12.23	117	62766	4.88550 ppb		88
39) Tert Amyl Methyl Ether	12.29	73	116566	4.98194 ppb		97
40) 1,2-DCA	12.30	62	51923	5.24451 ppb		96
41) Benzene	12.43	78	233358	5.03231 ppb		99
42) TCE	13.47	95	64648	5.04930 ppb		92

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C10W.D Vial: 1
Acq On : 25 Jan 12 19:07 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.13	43	319741	101.49568	ppb		99
44)	1,2-Dichloropropane	13.69	63	63597	5.18002	ppb		97
45)	Bromodichloromethane	14.05	83	71694	5.03541	ppb		98
46)	Methyl Cyclohexane	13.75	83	91479	5.11927	ppb		98
47)	Dibromomethane	14.09	93	26998	5.35670	ppb		98
48)	2-Chloroethyl vinyl ether	14.50	63	18521	4.89990	ppb		99
49)	1-Bromo-2-chloroethane	14.81	63	55069	5.23616	ppb		90
50)	Cis-1,3-Dichloropropene	14.94	75	86045	4.90842	ppb		87
51)	Toluene	15.56	91	279940	5.14321	ppb		98
52)	Trans-1,3-Dichloropropene	15.73	75	58020	4.91583	ppb		98
53)	1,1,2-TCA	16.01	83	30541	5.45244	ppb		98
56)	1,2-EDB	17.26	107	33255	4.92655	ppb		92
57)	Tetrachloroethene	16.72	164	63887	5.19435	ppb		98
58)	1-Chlorohexane	17.63	91	115471	5.10589	ppb		97
59)	1,1,1,2-Tetrachloroethane	18.09	131	64812	5.09967	ppb		86
60)	m&p-Xylene	18.28	106	272808	10.16956	ppb		98
61)	o-Xylene	19.03	106	137386	5.15684	ppb		96
62)	Styrene	19.05	104	204126	5.12777	ppb		95
64)	2-Hexanone	16.05	43	11766	4.78469	ppb		79
65)	1,3-Dichloropropane	16.43	76	63768	5.13465	ppb		100
66)	Dibromochloromethane	16.90	129	44085	4.88669	ppb		89
67)	Chlorobenzene	18.03	112	191681	4.92337	ppb		98
68)	Ethylbenzene	18.14	91	357885	5.03752	ppb		98
69)	Bromoform	19.56	173	22083	4.69499	ppb		99
71)	MIBK (methyl isobutyl keto	14.62	43	19770	4.40339	ppb		93
72)	Isopropylbenzene	19.66	105	366313	5.12524	ppb		98
73)	1,1,2,2-Tetrachloroethane	19.82	83	32692	4.95201	ppb		98
74)	1,2,3-Trichloropropane	20.08	110	3403	4.46490	ppb		95
75)	t-1,4-Dichloro-2-Butene	20.15	53	7279	4.63935	ppb	#	71
76)	Bromobenzene	20.40	156	86286	5.09376	ppb		89
77)	n-Propylbenzene	20.36	91	447141	5.02905	ppb		98
78)	4-Ethyltoluene	20.57	105	270556	5.23822	ppb		96
79)	2-Chlorotoluene	20.66	91	284669	5.05976	ppb		97
80)	1,3,5-Trimethylbenzene	20.63	105	293893	5.05390	ppb		98
81)	4-Chlorotoluene	20.74	91	244308	4.89709	ppb		94
82)	Tert-Butylbenzene	21.28	119	324784	4.87806	ppb		99
83)	1,2,4-Trimethylbenzene	21.34	105	296605	5.13001	ppb		99
84)	Sec-Butylbenzene	21.68	105	410839	5.00162	ppb		100
85)	p-Isopropyltoluene	21.91	119	332554	5.04127	ppb		97
86)	Benzyl Chloride	22.36	91	56743	4.25524	ppb	#	95
87)	1,3-DCB	22.06	146	170720	5.11723	ppb		97
88)	1,4-DCB	22.22	146	156556	4.82689	ppb		96
89)	Hexachloroethane	23.53	117	55081	4.23882	ppb		95
90)	n-Butylbenzene	22.63	91	294605	4.86558	ppb		98
91)	1,2-DCB	22.85	146	138525	4.95304	ppb		97
92)	1,2-Dibromo-3-chloropropan	24.07	155	5232	5.14663	ppb		78
93)	1,2,4-Trichlorobenzene	25.52	180	40208	5.02747	ppb		98
94)	Hexachlorobutadiene	25.77	223	49292	5.03284	ppb		89
95)	Naphthalene	25.87	128	119284	4.98673	ppb		96
96)	1,2,3-Trichlorobenzene	26.22	180	30753	4.78182	ppb		98

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

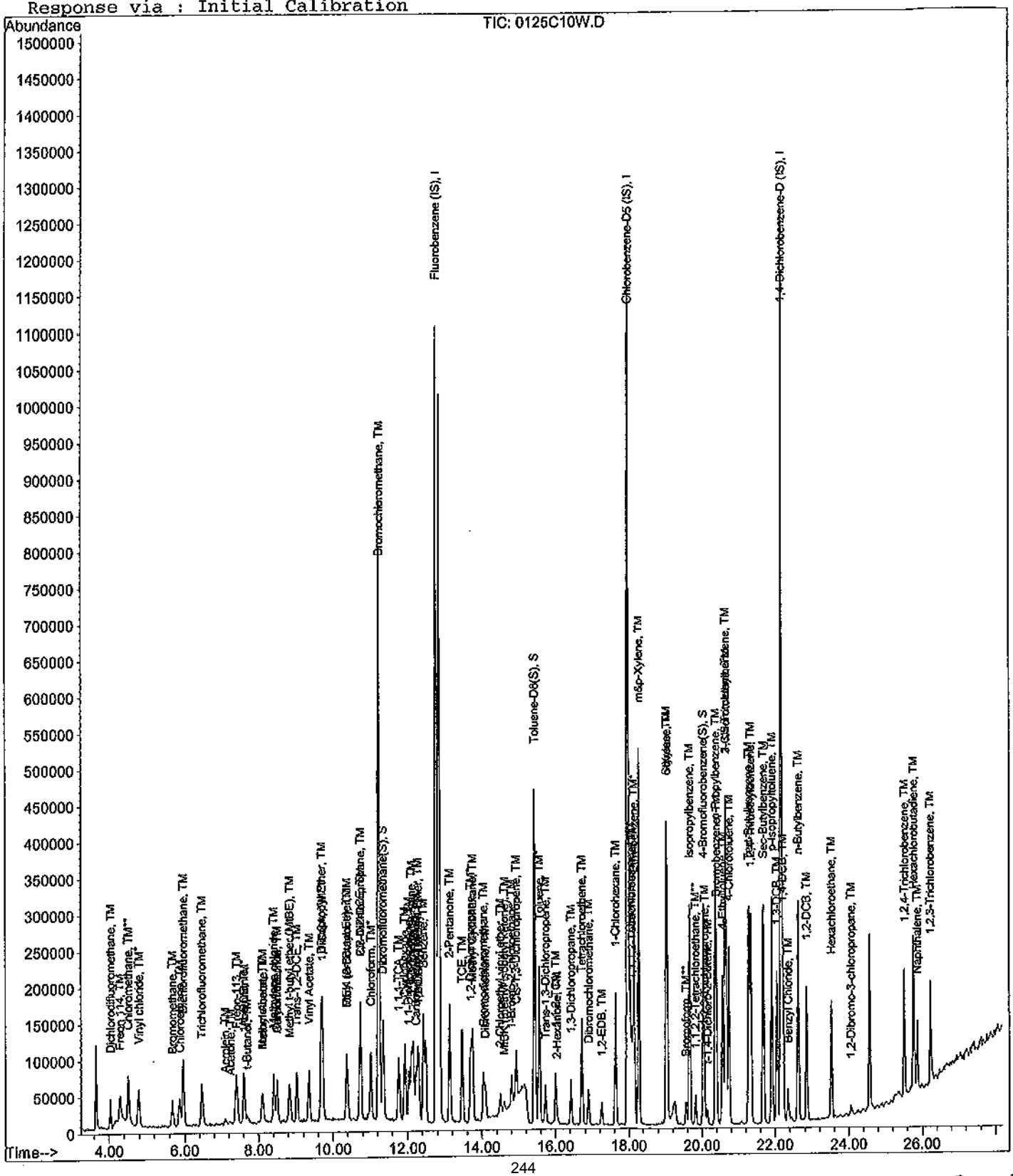
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C10W.D
Acq On : 25 Jan 12 19:07
Sample : Vol. Std. 01-25-12@5.0ug/L
Misc : Water 10mLw/ IS&S:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Jan 27 14:05 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C11W.D Vial: 1
Acq On : 25 Jan 12 19:44 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@10ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.77	96	572455	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	17.96	117	460544	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	244544	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.36	111	389933	25.58787 ppb	0.00
Spiked Amount 24.119			Recovery = 106.090%		
37) 1,2-DCA-D4(S)	12.16	65	276786	25.17424 ppb	0.00
Spiked Amount 22.874			Recovery = 110.054%		
55) Toluene-D8(S)	15.43	98	1455147	25.00273 ppb	0.00
Spiked Amount 24.755			Recovery = 101.001%		
63) 4-Bromofluorobenzene(S)	20.03	95	492346	24.20560 ppb	0.00
Spiked Amount 26.777			Recovery = 90.398%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.04	85	205099	10.14432 ppb	100
3) Freon 114	4.29	85	84782	9.70268 ppb	100
4) Chloromethane	4.51	50	91933	10.73304 ppb	100
5) Vinyl chloride	4.77	62	55216	8.63679 ppb	100
6) Bromomethane	5.68	94	34672	9.14278 ppb	100
7) Chloroethane	5.86	64	45340	10.15237 ppb	100
8) Dichlorofluoromethane	5.95	67	342769	10.48676 ppb	100
9) Trichlorofluoromethane	6.46	103	45672	10.61545 ppb	100
10) Acetonitrile	7.60	41	73003	120.23400 ug/l	100
11) Acrolein	7.10	56	16884	131.07739 ppb	100
12) Acetone	7.23	43	12320	9.53278 ppb	100
13) Freon-113	7.40	101	138845	10.50832 ppb	100
14) 1,1-DCE	7.62	96	77967	9.32762 ppb	100
15) t-Butanol	7.70	59	8340	132.77451 ppb	100
16) Methyl Acetate	8.13	43	43905	10.00670 ppb	100
17) Iodomethane	8.10	142	187094	10.06678 ppb	100
18) Acrylonitrile	8.50	53	15663	9.66862 ppb	100
19) Methylene chloride	8.41	84	98512	9.63025 ppb	100
20) Carbon disulfide	8.49	76	84600	10.11954 ppb	100
21) Methyl t-butyl ether (MtBE	8.84	73	210387	10.00264 ppb	100
22) Trans-1,2-DCE	9.04	96	94555	9.85267 ppb	100
23) Diisopropyl Ether	9.69	45	469405	10.46172 ppb	100
24) 1,1-DCA	9.72	63	234479	10.37563 ppb	100
25) Vinyl Acetate	9.36	43	22392	9.64995 ppb	100
26) Ethyl tert Butyl Ether	10.39	59	319110	10.45072 ppb	100
27) MEK (2-Butanone)	10.37	43	12285	10.01047 ppb	100
28) Cis-1,2-DCE	10.75	96	148683	9.83036 ppb	100
29) 2,2-Dichloropropane	10.75	77	197124	10.43932 ppb	100
30) Chloroform	11.02	83	245298	10.15706 ppb	100
31) Bromochloromethane	11.25	128	48926	10.65603 ppb	100
33) 1,1,1-TCA	11.76	97	202839	9.72812 ppb	100
34) Cyclohexane	11.93	56	194334	9.78634 ppb	100
35) 1,1-Dichloropropene	12.03	75	135415	9.42622 ppb	100
36) 2,2,4-Trimethylpentane	12.11	57	355997	9.21822 ppb	100
38) Carbon Tetrachloride	12.23	117	137448	9.36643 ppb	100
39) Tert Amyl Methyl Ether	12.29	73	244464	10.15114 ppb	100
40) 1,2-DCA	12.31	62	106381	10.43956 ppb	100
41) Benzene	12.43	78	467510	9.79510 ppb	100
42) TCE	13.47	95	135878	10.31094 ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C11W.D Vial: 1
Acq On : 25 Jan 12 19:44 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@10ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	2-Pentanone	13.13	43	436867	134.73230	ppb	100
44)	1,2-Dichloropropane	13.69	63	131378	10.39659	ppb	100
45)	Bromodichloromethane	14.05	83	154139	10.51811	ppb	100
46)	Methyl Cyclohexane	13.75	83	185326	10.07618	ppb	100
47)	Dibromomethane	14.10	93	52741	10.16688	ppb	100
48)	2-Chloroethyl vinyl ether	14.50	63	40574	10.42902	ppb	100
49)	1-Bromo-2-chloroethane	14.81	63	114658	10.59213	ppb	100
50)	Cis-1,3-Dichloropropene	14.94	75	171642	9.76858	ppb	100
51)	Toluene	15.57	91	562624	10.04294	ppb	100
52)	Trans-1,3-Dichloropropene	15.73	75	129060	10.62390	ppb	100
53)	1,1,2-TCA	16.01	83	63227	10.96689	ppb	100
56)	1,2-EDB	17.26	107	72456	10.56691	ppb	100
57)	Tetrachloroethene	16.72	164	125240	10.02418	ppb	100
58)	1-Chlorohexane	17.64	91	230749	10.04444	ppb	100
59)	1,1,1,2-Tetrachloroethane	18.08	131	137579	10.65678	ppb	100
60)	m&p-Xylene	18.28	106	554797	20.35948	ppb	100
61)	o-Xylene	19.03	106	275138	10.16669	ppb	100
62)	Styrene	19.05	104	419854	10.38284	ppb	100
64)	2-Hexanone	16.04	43	27827	11.13983	ppb	100
65)	1,3-Dichloropropane	16.42	76	127734	10.12515	ppb	100
66)	Dibromochloromethane	16.90	129	98716	10.77207	ppb	100
67)	Chlorobenzene	18.03	112	407221	10.29678	ppb	100
68)	Ethylbenzene	18.14	91	711136	9.85403	ppb	100
69)	Bromoform	19.56	173	51854	9.44970	ppb	100
71)	MIBK (methyl isobutyl keto	14.61	43	43824	9.78470	ppb	100
72)	Isopropylbenzene	19.66	105	742282	10.15455	ppb	100
73)	1,1,2,2-Tetrachloroethane	19.82	83	73195	10.84055	ppb	100
74)	1,2,3-Trichloropropane	20.08	110	7309	9.29996	ppb	100
75)	t-1,4-Dichloro-2-Butene	20.15	53	15977	9.56636	ppb	100
76)	Bromobenzene	20.39	156	168258	9.71189	ppb	100
77)	n-Propylbenzene	20.36	91	894536	9.83715	ppb	100
78)	4-Ethyltoluene	20.57	105	515659	9.76155	ppb	100
79)	2-Chlorotoluene	20.66	91	568158	9.87390	ppb	100
80)	1,3,5-Trimethylbenzene	20.63	105	603683	10.15024	ppb	100
81)	4-Chlorotoluene	20.74	91	491928	9.64122	ppb	100
82)	Tert-Butylbenzene	21.28	119	637373	9.36000	ppb	100
83)	1,2,4-Trimethylbenzene	21.34	105	602189	10.18363	ppb	100
84)	Sec-Butylbenzene	21.68	105	834301	9.93096	ppb	100
85)	p-Isopropyltoluene	21.91	119	664611	9.85088	ppb	100
86)	Benzyl Chloride	22.36	91	130466	9.56618	ppb	100
87)	1,3-DCB	22.05	146	344241	10.08889	ppb	100
88)	1,4-DCB	22.22	146	324377	9.77862	ppb	100
89)	Hexachloroethane	23.53	117	133690	9.05421	ppb	100
90)	n-Butylbenzene	22.63	91	599347	9.67838	ppb	100
91)	1,2-DCB	22.85	146	278024	9.71977	ppb	100
92)	1,2-Dibromo-3-chloropropan	24.07	155	9470	9.10826	ppb	100
93)	1,2,4-Trichlorobenzene	25.52	180	81728	9.99167	ppb	100
94)	Hexachlorobutadiene	25.77	223	93224	9.35505	ppb	100
95)	Naphthalene	25.87	128	255618	10.44853	ppb	100
96)	1,2,3-Trichlorobenzene	26.23	180	66752	10.14844	ppb	100

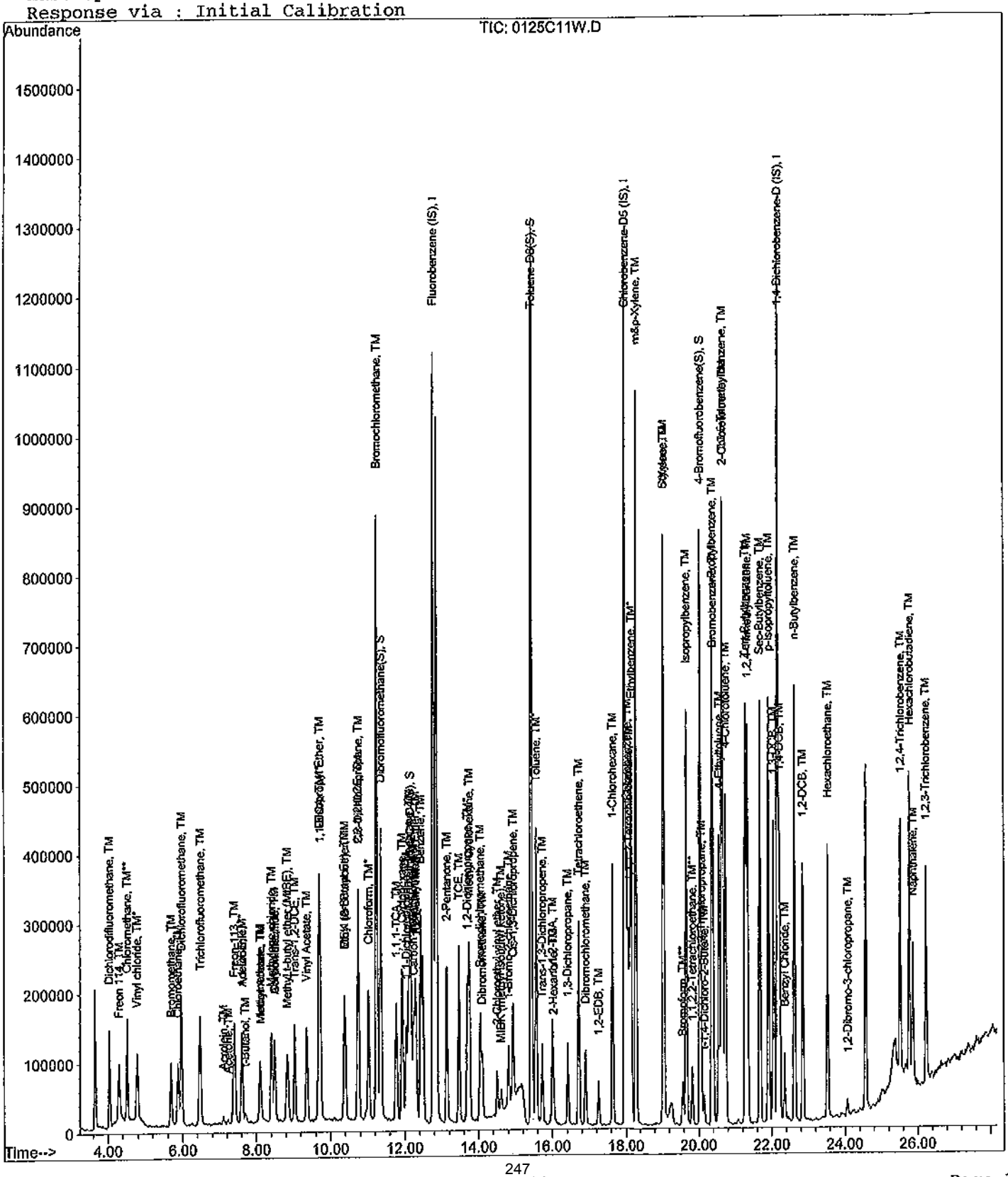
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C11W.D Vial: 1
Acq On : 25 Jan 12 19:44 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@10ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C12W.D Vial: 1
Acq On : 25 Jan 12 20:21 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@40ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.77	96	588171	25.00000	ppb		0.00
54) Chlorobenzene-D5 (IS)	17.96	117	466816	25.00000	ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	250496	25.00000	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	11.35	111	1268809	81.03602	ppb		-0.01
Spiked Amount 24.119			Recovery = 335.981%				
37) 1,2-DCA-D4(S)	12.16	65	885812	78.41363	ppb		0.00
Spiked Amount 22.874			Recovery = 342.805%				
55) Toluene-D8(S)	15.43	98	4708845	79.82158	ppb		0.00
Spiked Amount 24.755			Recovery = 322.447%				
63) 4-Bromofluorobenzene(S)	20.03	95	1585242	76.88937	ppb		0.00
Spiked Amount 26.777			Recovery = 287.143%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.04	85	866695	40.19758	ppb		98
3) Freon 114	4.29	85	395913	44.09870	ppb		91
4) Chloromethane	4.52	50	352421	40.91473	ppb		100
5) Vinyl chloride	4.77	62	196544	29.92162	ppb		97
6) Bromomethane	5.68	94	172288	39.05036	ppb		94
7) Chloroethane	5.87	64	165444	36.05577	ppb		98
8) Dichlorofluoromethane	5.96	67	1372794	40.87737	ppb		96
9) Trichlorofluoromethane	6.47	103	184448	41.72535	ppb		99
10) Acetonitrile	7.59	41	115131	184.55108	ug/l		100
11) Acrolein	7.10	56	24359	184.05586	ppb		95
12) Acetone	7.23	43	49579	41.98010	ppb	#	90
13) Freon-113	7.40	101	586950	43.23565	ppb		94
14) 1,1-DCE	7.61	96	318520	37.08811	ppb		79
15) t-Butanol	7.70	59	10144	157.17940	ppb	#	90
16) Methyl Acetate	8.12	43	176137	40.87608	ppb		98
17) Iodomethane	8.10	142	777459	39.79433	ppb		98
18) Acrylonitrile	8.50	53	68511	41.16118	ppb		89
19) Methylene chloride	8.42	84	399885	41.45343	ppb		99
20) Carbon disulfide	8.49	76	336960	39.22893	ppb		99
21) Methyl t-butyl ether (MtBE	8.83	73	827501	38.29148	ppb		99
22) Trans-1,2-DCE	9.03	96	388137	40.19716	ppb		97
23) Diisopropyl Ether	9.68	45	1851924	40.17132	ppb		98
24) 1,1-DCA	9.72	63	939237	40.45047	ppb		98
25) Vinyl Acetate	9.35	43	92408	38.91528	ppb		98
26) Ethyl tert Butyl Ether	10.38	59	1288892	41.08280	ppb		97
27) MEK (2-Butanone)	10.38	43	48349	40.03374	ppb		92
28) Cis-1,2-DCE	10.75	96	595944	38.34875	ppb		96
29) 2,2-Dichloropropane	10.74	77	817189	42.12044	ppb		98
30) Chloroform	11.02	83	1013150	40.83059	ppb		97
31) Bromochloromethane	11.25	128	197770	41.92315	ppb		94
33) 1,1,1-TCA	11.76	97	864856	40.37004	ppb		97
34) Cyclohexane	11.93	56	860425	42.17180	ppb		99
35) 1,1-Dichloropropene	12.03	75	558801	37.85872	ppb		92
36) 2,2,4-Trimethylpentane	12.11	57	1531674	38.60155	ppb		97
38) Carbon Tetrachloride	12.23	117	647307	39.66547	ppb		96
39) Tert Amyl Methyl Ether	12.28	73	981742	39.67667	ppb		96
40) 1,2-DCA	12.30	62	417955	39.91953	ppb		95
41) Benzene	12.43	78	1945788	39.67813	ppb		98
42) TCE	13.47	95	561850	41.49610	ppb		93

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C12W.D Vial: 1
Acq On : 25 Jan 12 20:21 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@40ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.13	43	618102	185.53266	ppb		95
44)	1,2-Dichloropropane	13.69	63	527517	40.62960	ppb		99
45)	Bromodichloromethane	14.05	83	663605	44.07300	ppb		97
46)	Methyl Cyclohexane	13.75	83	797561	42.20476	ppb		99
47)	Dibromomethane	14.10	93	222972	41.83379	ppb		91
48)	2-Chloroethyl vinyl ether	14.50	63	172520	43.15914	ppb		93
49)	1-Bromo-2-chloroethane	14.81	63	477136	42.90015	ppb		92
50)	Cis-1,3-Dichloropropene	14.94	75	733315	41.48047	ppb		98
51)	Toluene	15.56	91	2342630	40.69901	ppb		99
52)	Trans-1,3-Dichloropropene	15.73	75	535639	42.91431	ppb		95
53)	1,1,2-TCA	16.01	83	271826	45.88910	ppb		95
56)	1,2-EDB	17.26	107	301691	43.40717	ppb		97
57)	Tetrachloroethene	16.72	164	542649	42.84996	ppb		97
58)	1-Chlorohexane	17.63	91	1019777	43.79419	ppb		99
59)	1,1,1,2-Tetrachloroethane	18.08	131	579065	44.25137	ppb		95
60)	m&p-Xylene	18.28	106	2265686	82.02716	ppb		98
61)	o-Xylene	19.03	106	1158631	42.23763	ppb		89
62)	Styrene	19.05	104	1766076	43.08763	ppb		98
64)	2-Hexanone	16.03	43	114627	45.27145	ppb		96
65)	1,3-Dichloropropane	16.42	76	541993	42.38519	ppb		96
66)	Dibromochloromethane	16.90	129	434372	46.76262	ppb		96
67)	Chlorobenzene	18.03	112	1652089	41.21261	ppb		98
68)	Ethylbenzene	18.14	91	2954399	40.38830	ppb		99
69)	Bromoform	19.56	173	236918	38.84249	ppb		89
71)	MIBK (methyl isobutyl keto	14.61	43	186752	41.35793	ppb		91
72)	Isopropylbenzene	19.66	105	3072103	41.02832	ppb		98
73)	1,1,2,2-Tetrachloroethane	19.82	83	308333	44.58060	ppb		94
74)	1,2,3-Trichloropropane	20.07	110	30856	40.39492	ppb		94
75)	t-1,4-Dichloro-2-Butene	20.15	53	71600	40.70336	ppb	#	60
76)	Bromobenzene	20.40	156	701635	39.53626	ppb		93
77)	n-Propylbenzene	20.36	91	3738519	40.13538	ppb		98
78)	4-Ethyltoluene	20.57	105	2200664	40.66926	ppb		97
79)	2-Chlorotoluene	20.66	91	2352419	39.91079	ppb		100
80)	1,3,5-Trimethylbenzene	20.64	105	2529254	41.51604	ppb		97
81)	4-Chlorotoluene	20.74	91	2013011	38.51527	ppb		95
82)	Tert-Butylbenzene	21.28	119	2712039	38.88073	ppb		98
83)	1,2,4-Trimethylbenzene	21.34	105	2508880	41.41962	ppb		98
84)	Sec-Butylbenzene	21.68	105	3554267	41.30234	ppb		99
85)	p-Isopropyltoluene	21.91	119	2809577	40.65412	ppb		98
86)	Benzyl Chloride	22.36	91	578117	41.38218	ppb		100
87)	1,3-DCB	22.06	146	1424972	40.77023	ppb		99
88)	1,4-DCB	22.22	146	1326824	39.04783	ppb		100
89)	Hexachloroethane	23.53	117	657147	40.66733	ppb		96
90)	n-Butylbenzene	22.63	91	2552217	40.23444	ppb		99
91)	1,2-DCB	22.85	146	1173317	40.04472	ppb		98
92)	1,2-Dibromo-3-chloropropan	24.07	155	48442	45.48451	ppb		92
93)	1,2,4-Trichlorobenzene	25.52	180	351803	41.98778	ppb		99
94)	Hexachlorobutadiene	25.77	223	411999	40.55067	ppb		94
95)	Naphthalene	25.87	128	1038384	41.43601	ppb		97
96)	1,2,3-Trichlorobenzene	26.22	180	274662	40.76524	ppb		98

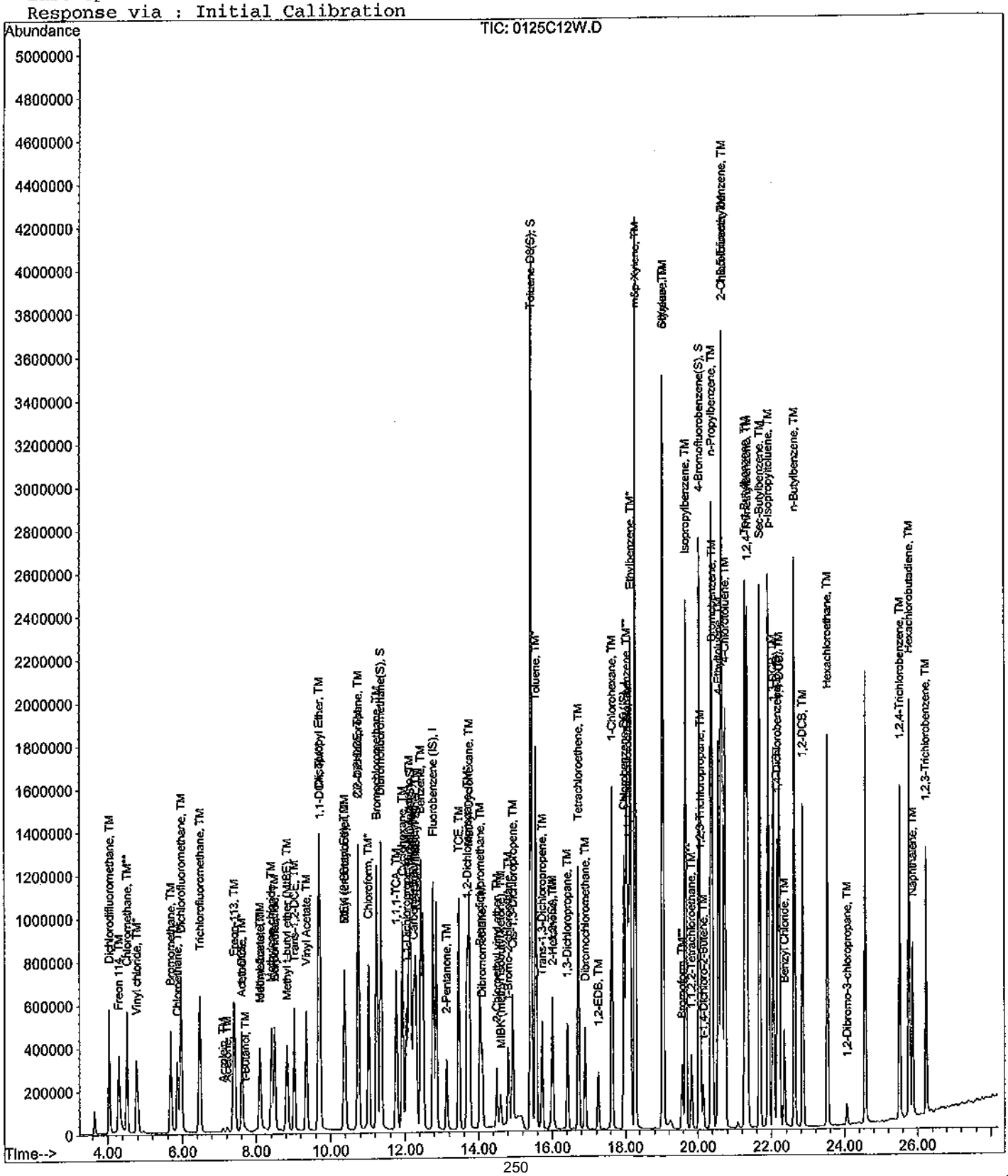
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C12W.D Vial: 1
Acq On : 25 Jan 12 20:21 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@40ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C13W.D Vial: 1
Acq On : 25 Jan 12 20:58 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.77	96	634396	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	17.96	117	510848	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.16	152	270208	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.36	111	1666218	98.66358 ppb	0.00
Spiked Amount 24.119			Recovery = 409.069%		
37) 1,2-DCA-D4(S)	12.16	65	1131110	92.83207 ppb	0.00
Spiked Amount 22.874			Recovery = 405.837%		
55) Toluene-D8(S)	15.43	98	6200385	96.04585 ppb	0.00
Spiked Amount 24.755			Recovery = 387.985%		
63) 4-Bromofluorobenzene(S)	20.03	95	2030814	90.01086 ppb	0.00
Spiked Amount 26.777			Recovery = 336.147%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.03	85	2274246	99.96840 ppb	98
3) Freon 114	4.29	85	1048470	108.27424 ppb	87
4) Chloromethane	4.51	50	921209	99.60927 ppb	99
5) Vinyl chloride	4.76	62	583808	82.40214 ppb	97
6) Bromomethane	5.68	94	488512	100.46317 ppb	92
7) Chloroethane	5.86	64	425883	86.05125 ppb	98
8) Dichlorofluoromethane	5.96	67	3513693	97.00286 ppb	94
9) Trichlorofluoromethane	6.47	103	488064	102.36370 ppb	99
10) Acetonitrile	7.59	41	123573	183.65006 ug/l	100
11) Acrolein	7.10	56	31326	219.45137 ppb	99
12) Acetone	7.22	43	123787	99.26997 ppb	94
13) Freon-113	7.40	101	1557366	106.35913 ppb	91
14) 1,1-DCE	7.61	96	848827	91.63478 ppb	85
15) t-Butanol	7.70	59	14624	210.08534 ppb #	92
16) Methyl Acetate	8.13	43	459084	99.65639 ppb	98
17) Iodomethane	8.10	142	2118512	100.07393 ppb	99
18) Acrylonitrile	8.50	53	179281	99.86307 ppb	85
19) Methylene chloride	8.42	84	1018566	99.46612 ppb	99
20) Carbon disulfide	8.49	76	898048	96.93282 ppb	100
21) Methyl t-butyl ether (MtBE	8.83	73	2181956	93.61012 ppb	97
22) Trans-1,2-DCE	9.04	96	1036480	99.93175 ppb	98
23) Diisopropyl Ether	9.68	45	4686372	94.24816 ppb	96
24) 1,1-DCA	9.72	63	2430435	97.04553 ppb	98
25) Vinyl Acetate	9.35	43	257047	100.44279 ppb	95
26) Ethyl tert Butyl Ether	10.38	59	3243807	95.86094 ppb	94
27) MEK (2-Butanone)	10.37	43	120512	99.99410 ppb	100
28) Cis-1,2-DCE	10.75	96	1530635	91.31888 ppb	96
29) 2,2-Dichloropropane	10.74	77	2181132	104.23067 ppb	97
30) Chloroform	11.02	83	2626848	98.14993 ppb	97
31) Bromochloromethane	11.25	128	514075	101.03297 ppb	90
33) 1,1,1-TCA	11.76	97	2272037	98.32727 ppb	100
34) Cyclohexane	11.93	56	2286667	103.90950 ppb	99
35) 1,1-Dichloropropene	12.04	75	1488085	93.47159 ppb	94
36) 2,2,4-Trimethylpentane	12.11	57	4214129	98.46672 ppb	97
38) Carbon Tetrachloride	12.23	117	1788696	100.19682 ppb	93
39) Tert Amyl Methyl Ether	12.28	73	2527973	94.72256 ppb	98
40) 1,2-DCA	12.30	62	1049210	92.90978 ppb	93
41) Benzene	12.43	78	5100220	96.42459 ppb	99
42) TCE	13.47	95	1471475	100.75880 ppb	92

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C13W.D Vial: 1
Acq On : 25 Jan 12 20:58 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.13	43	745455	207.45544	ppb		99
44)	1,2-Dichloropropane	13.69	63	1370846	97.88992	ppb		98
45)	Bromodichloromethane	14.05	83	1749083	107.70022	ppb		100
46)	Methyl Cyclohexane	13.75	83	2124177	104.21528	ppb		97
47)	Dibromomethane	14.10	93	583841	101.55813	ppb		92
48)	2-Chloroethyl vinyl ether	14.50	63	473390	109.79830	ppb		95
49)	1-Bromo-2-chloroethane	14.81	63	1243293	103.64139	ppb		91
50)	Cis-1,3-Dichloropropene	14.94	75	1888900	99.43992	ppb		99
51)	Toluene	15.56	91	6051840	97.47894	ppb		96
52)	Trans-1,3-Dichloropropene	15.73	75	1437232	106.75790	ppb		97
53)	1,1,2-TCA	16.01	83	685764	107.33378	ppb		92
56)	1,2-EDB	17.26	107	797615	104.86883	ppb		99
57)	Tetrachloroethene	16.72	164	1411548	101.85470	ppb		98
58)	1-Chlorohexane	17.63	91	2658727	104.33718	ppb		98
59)	1,1,1,2-Tetrachloroethane	18.09	131	1530485	106.87657	ppb		93
60)	m&p-Xylene	18.28	106	5986447	198.05286	ppb		98
61)	o-Xylene	19.03	106	2950334	98.28327	ppb		88
62)	Styrene	19.05	104	4531022	101.01676	ppb		97
64)	2-Hexanone	16.03	43	300823	108.56817	ppb		99
65)	1,3-Dichloropropane	16.43	76	1384598	98.94599	ppb		97
66)	Dibromochloromethane	16.90	129	1163712	114.48183	ppb		95
67)	Chlorobenzene	18.03	112	4254074	96.97409	ppb		97
68)	Ethylbenzene	18.15	91	7843064	97.97747	ppb		99
69)	Bromoform	19.57	173	682627	100.52259	ppb		92
71)	MIBK (methyl isobutyl keto	14.60	43	483281	99.50790	ppb		89
72)	Isopropylbenzene	19.67	105	8018900	99.28083	ppb		99
73)	1,1,2,2-Tetrachloroethane	19.82	83	809093	108.44936	ppb		99
74)	1,2,3-Trichloropropane	20.08	110	71896	99.92517	ppb		96
75)	t-1,4-Dichloro-2-Butene	20.15	53	190273	99.77769	ppb	#	65
76)	Bromobenzene	20.40	156	1790000	93.50610	ppb		92
77)	n-Propylbenzene	20.36	91	9500115	94.54951	ppb		97
78)	4-Ethyltoluene	20.57	105	5947651	101.89682	ppb		98
79)	2-Chlorotoluene	20.66	91	5894295	92.70648	ppb		99
80)	1,3,5-Trimethylbenzene	20.64	105	6230788	94.81325	ppb		96
81)	4-Chlorotoluene	20.74	91	5327764	94.50057	ppb		95
82)	Tert-Butylbenzene	21.28	119	6909981	91.83706	ppb		98
83)	1,2,4-Trimethylbenzene	21.34	105	6372936	97.53676	ppb		96
84)	Sec-Butylbenzene	21.68	105	9146462	98.53270	ppb		99
85)	p-Isopropyltoluene	21.91	119	7336115	98.40843	ppb		98
86)	Benzyl Chloride	22.36	91	1521630	100.97392	ppb		99
87)	1,3-DCB	22.06	146	3597263	95.41389	ppb		97
88)	1,4-DCB	22.22	146	3449930	94.12315	ppb		99
89)	Hexachloroethane	23.53	117	1759540	99.85998	ppb		98
90)	n-Butylbenzene	22.63	91	6515407	95.21919	ppb		98
91)	1,2-DCB	22.86	146	2929261	92.68098	ppb		96
92)	1,2-Dibromo-3-chloropropan	24.07	155	124753	108.59131	ppb		94
93)	1,2,4-Trichlorobenzene	25.53	180	843585	93.33721	ppb		97
94)	Hexachlorobutadiene	25.80	223	1093311	99.84128	ppb		93
95)	Naphthalene	25.91	128	2710647	100.27564	ppb		97
96)	1,2,3-Trichlorobenzene	26.28	180	696663	95.85543	ppb		99

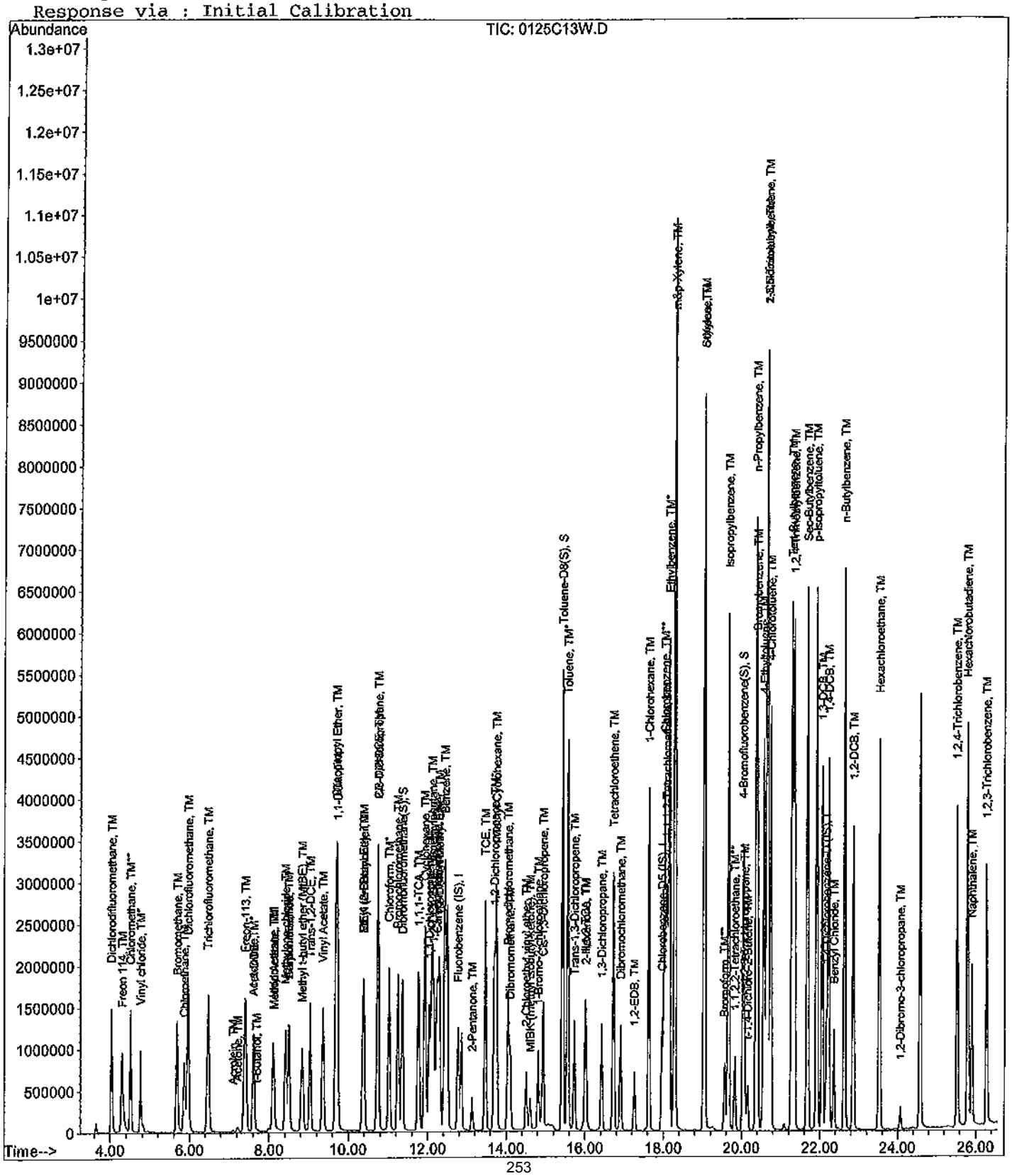
(#) = qualifier out of range (m) = manual integration

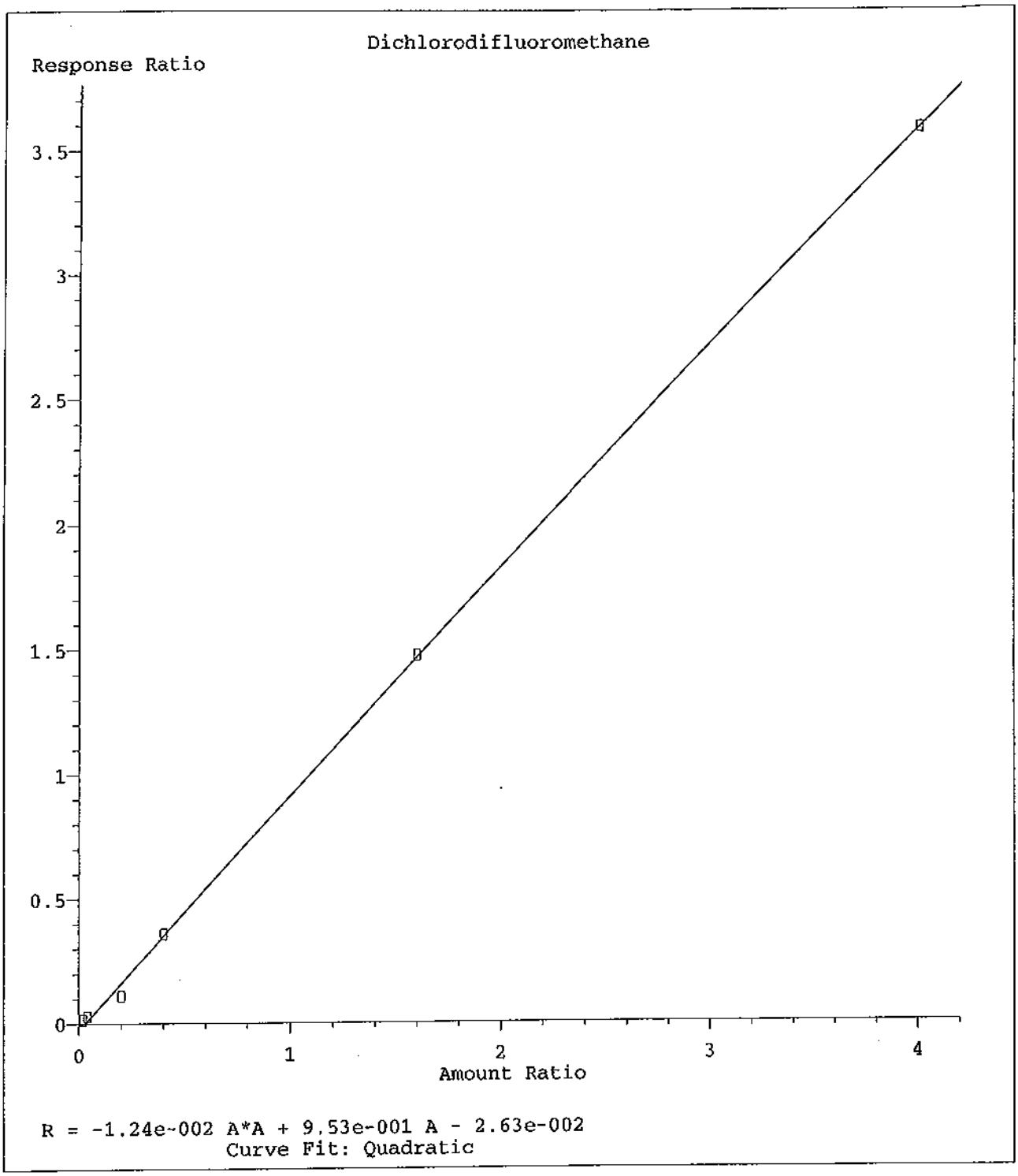
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C13W.D Vial: 1
Acq On : 25 Jan 12 20:58 Operator: RS, ARS
Sample : Vol. Std. 01-25-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:12-06-11 Multiplr: 1.00

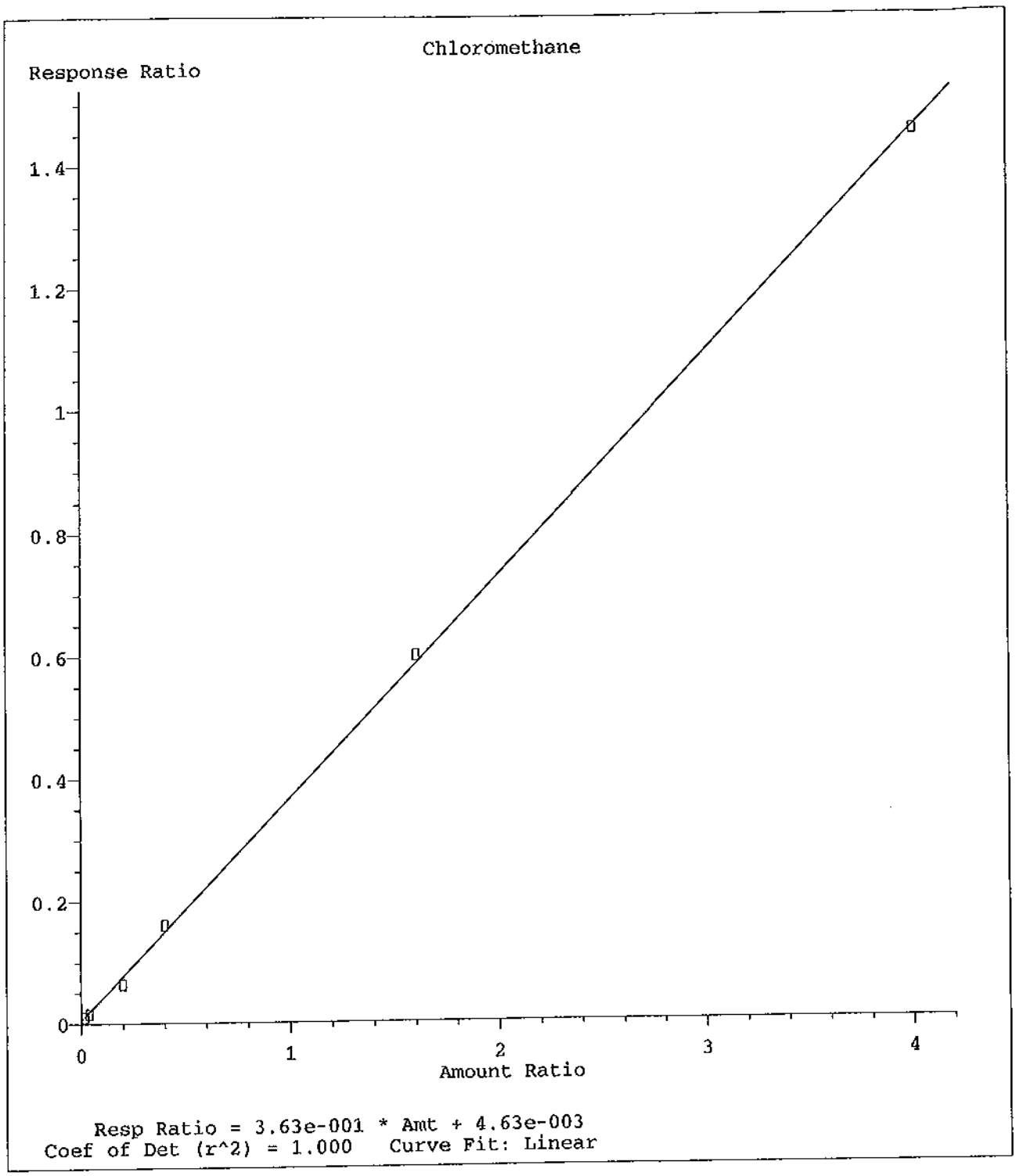
Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration

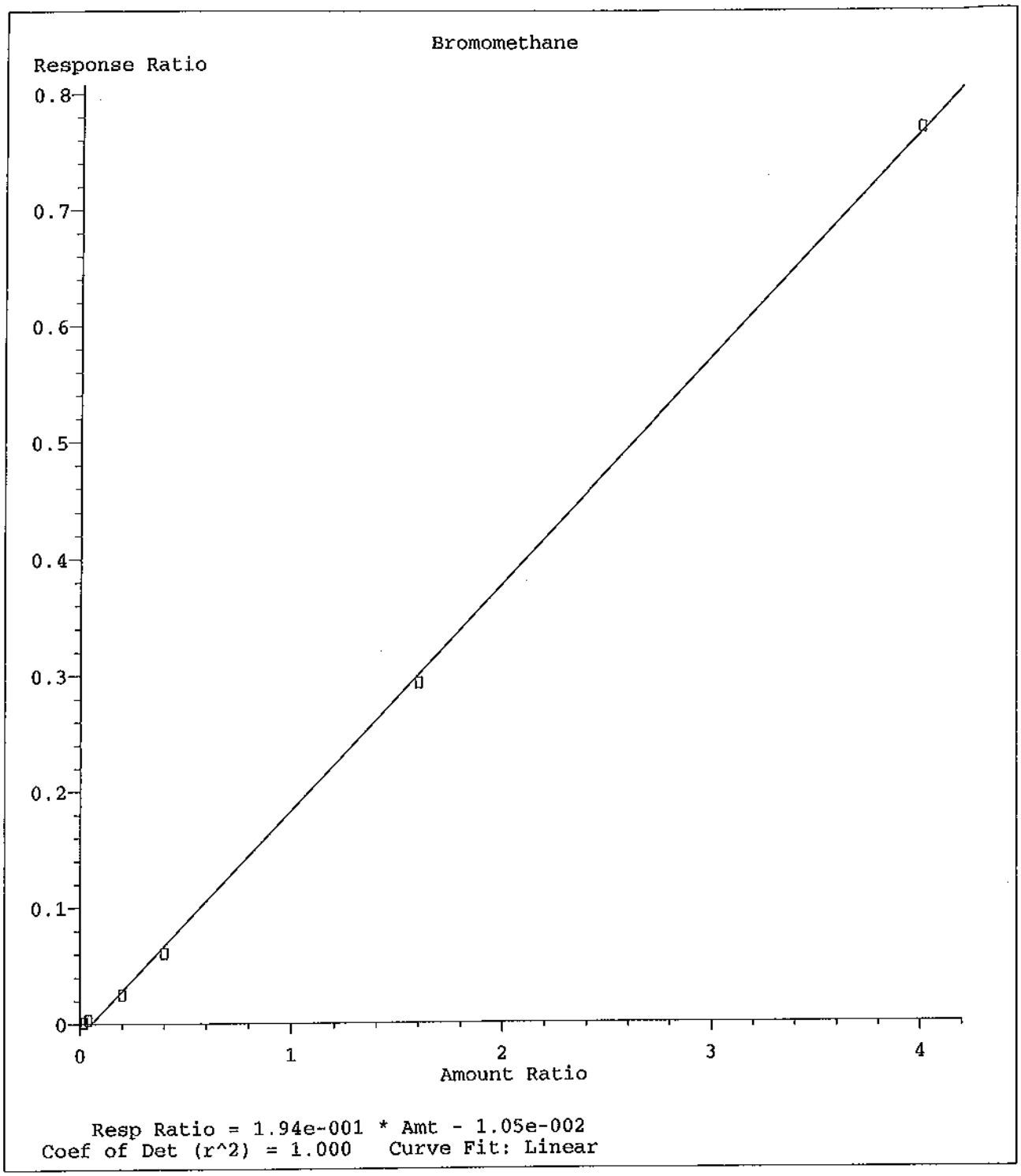




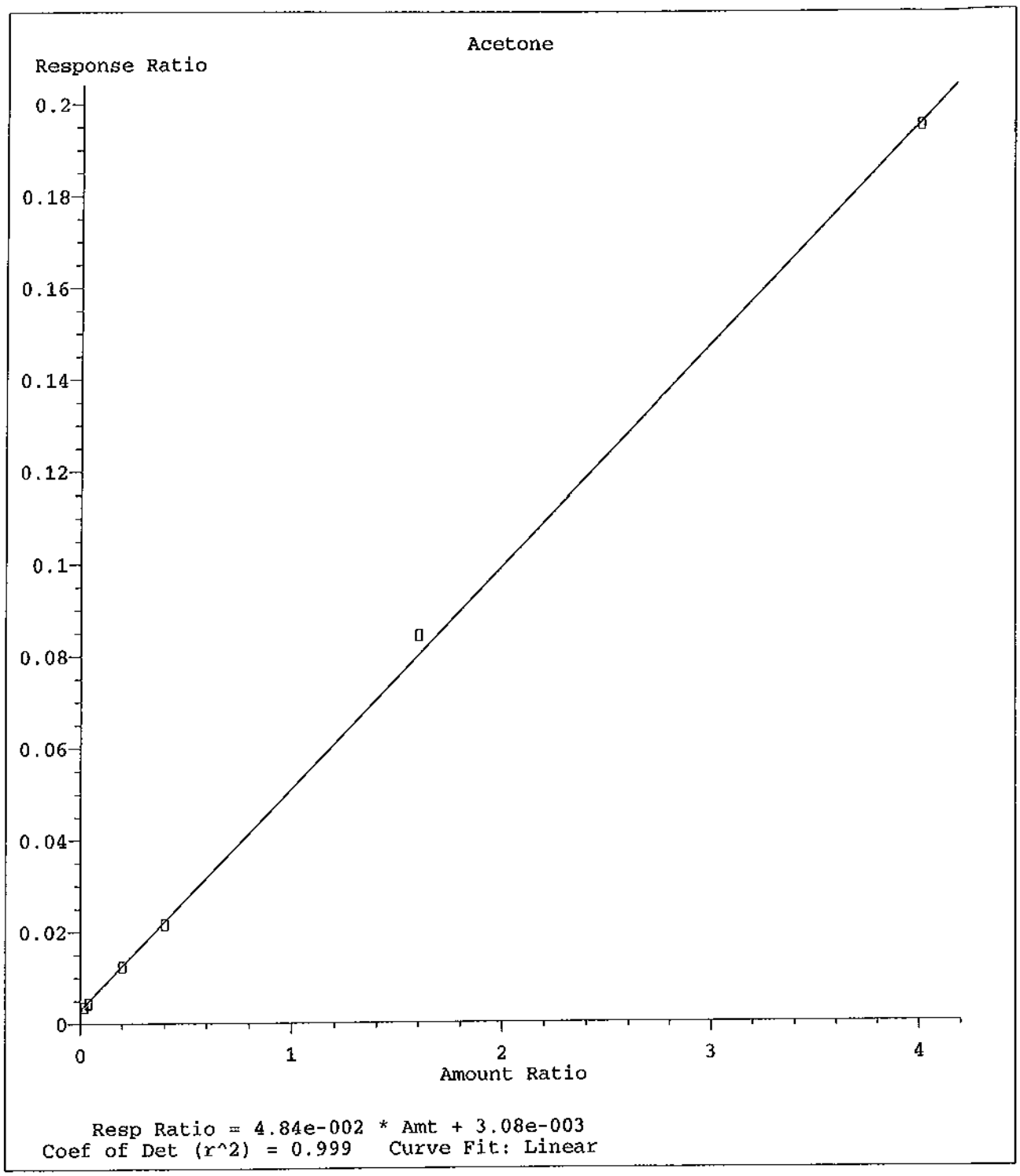
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



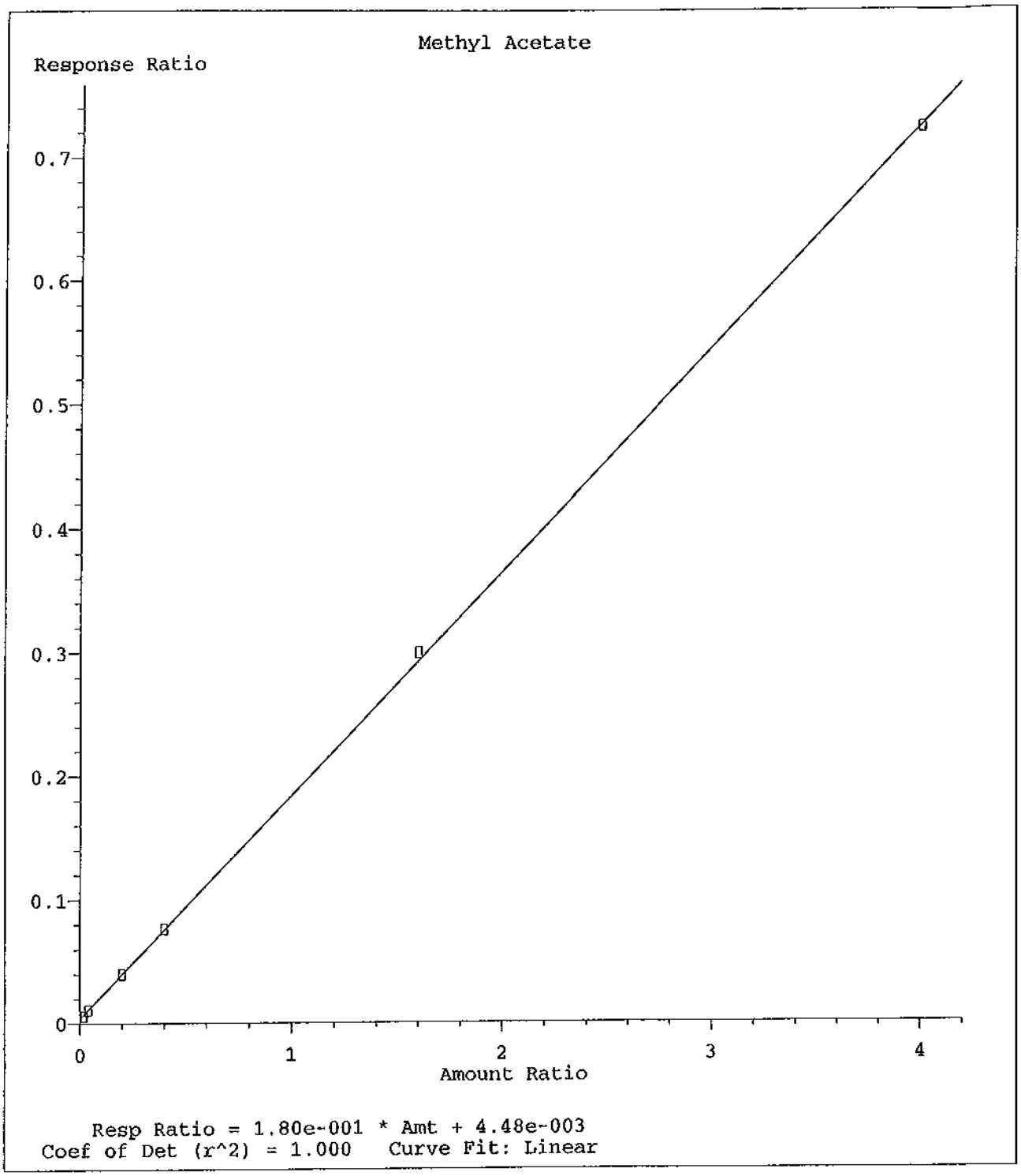
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



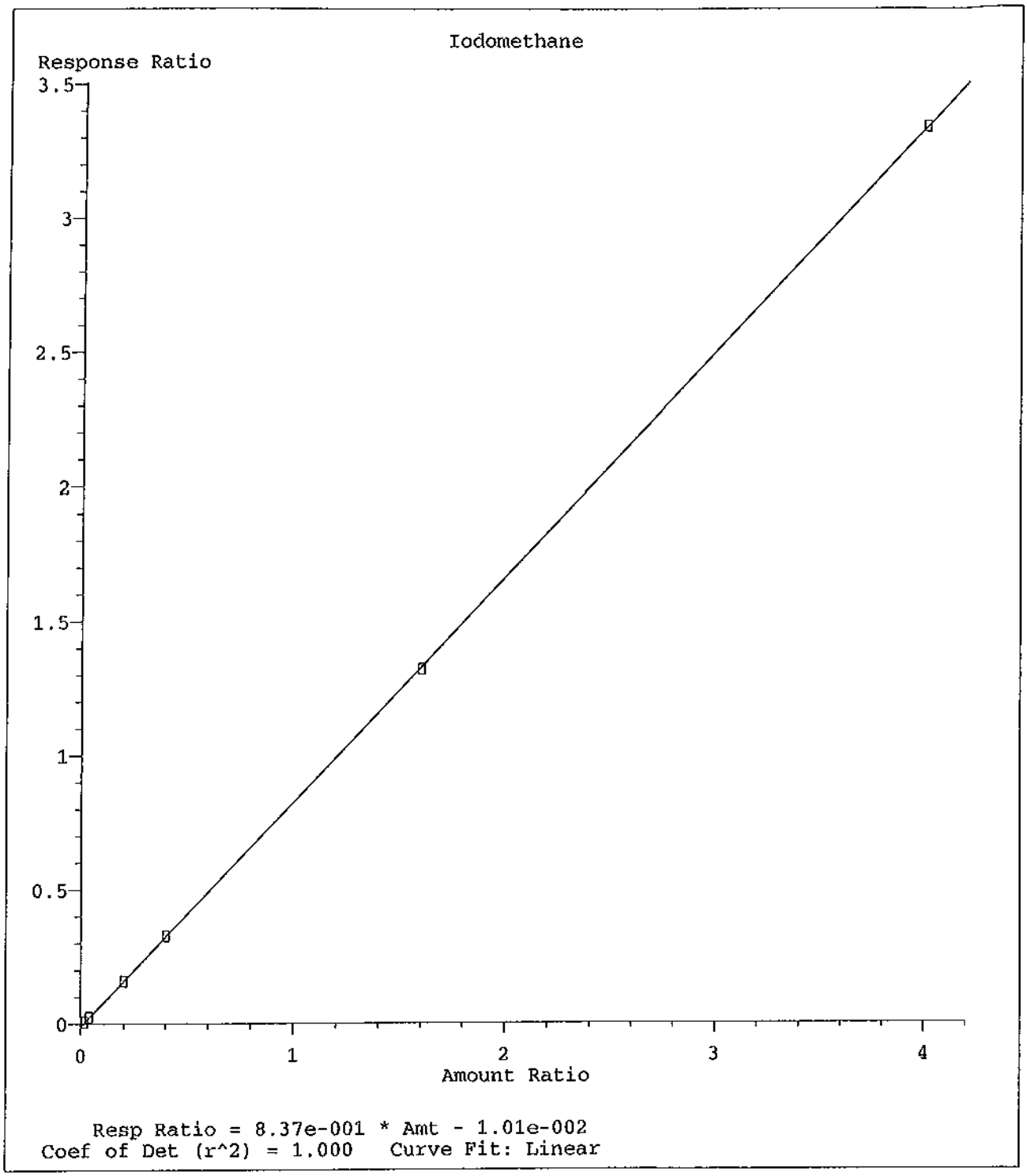
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



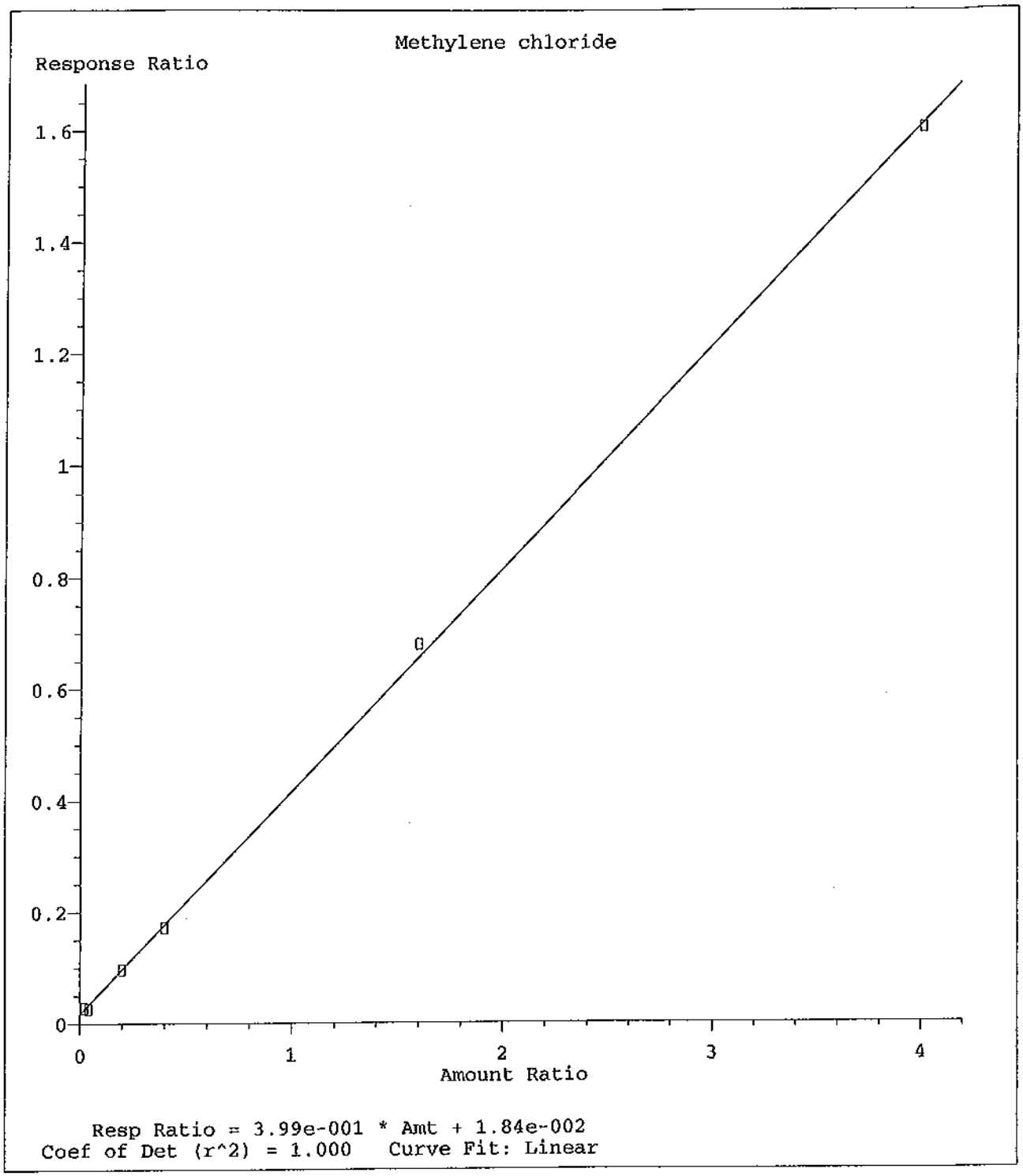
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



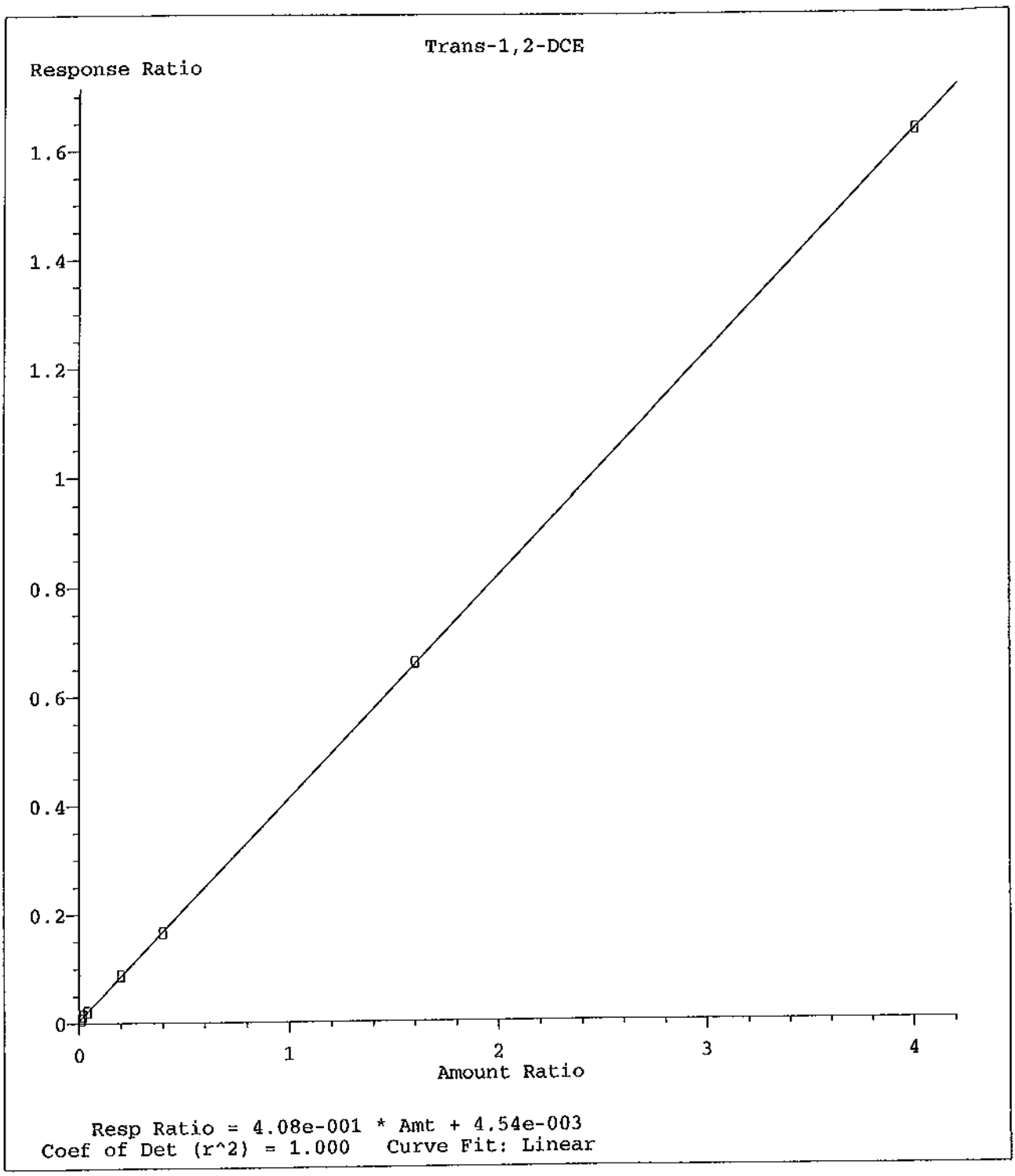
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



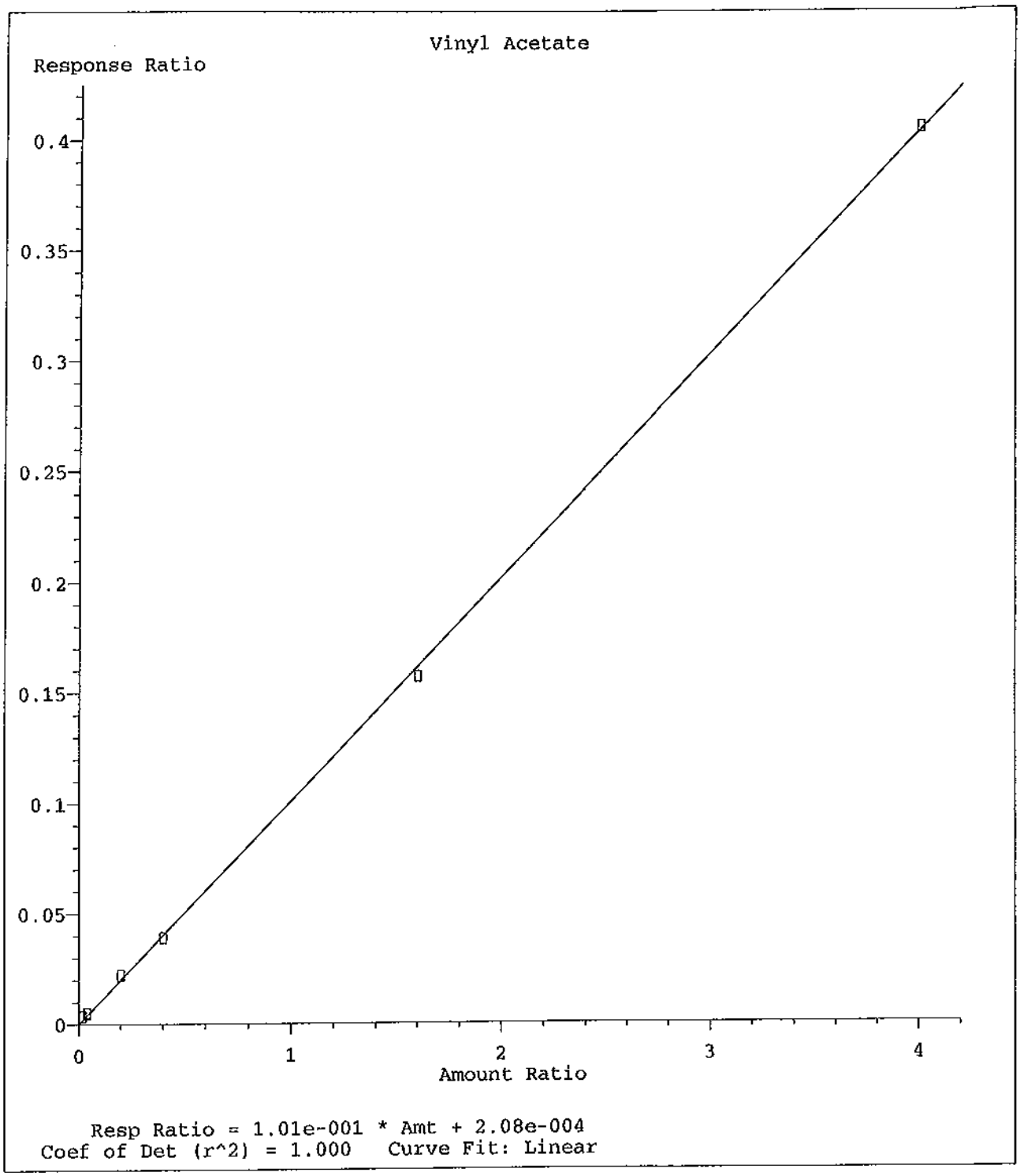
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



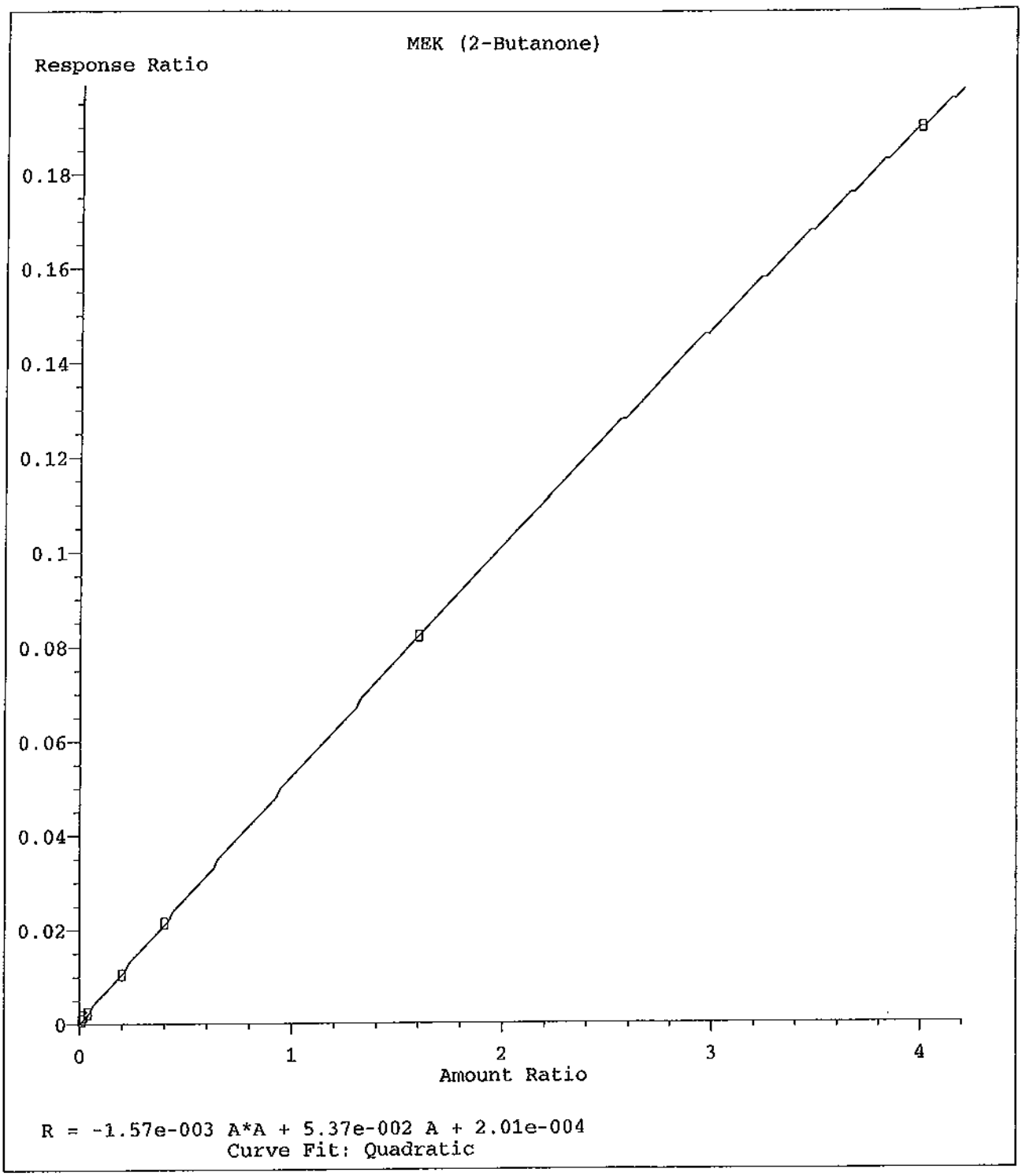
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



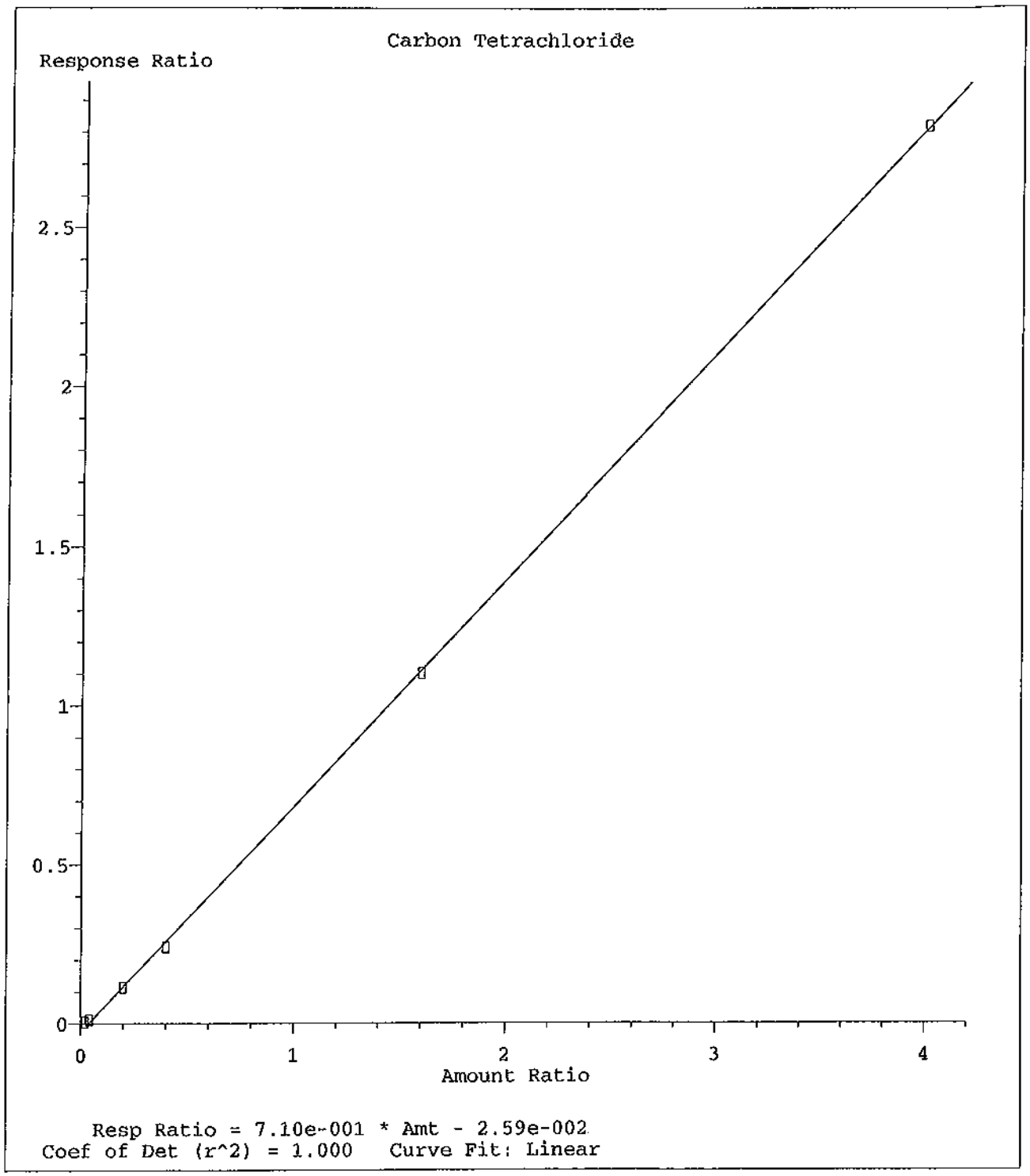
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



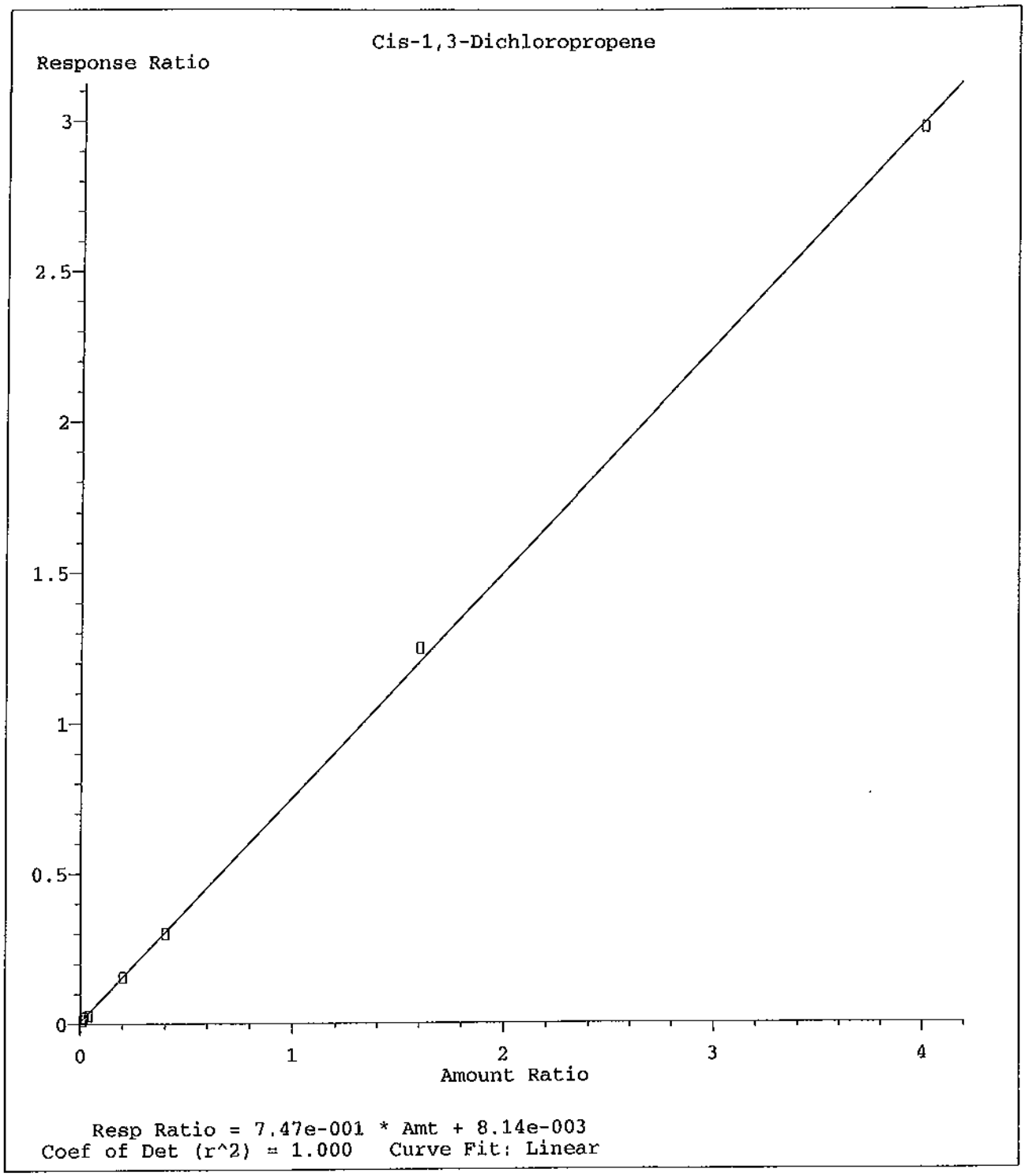
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



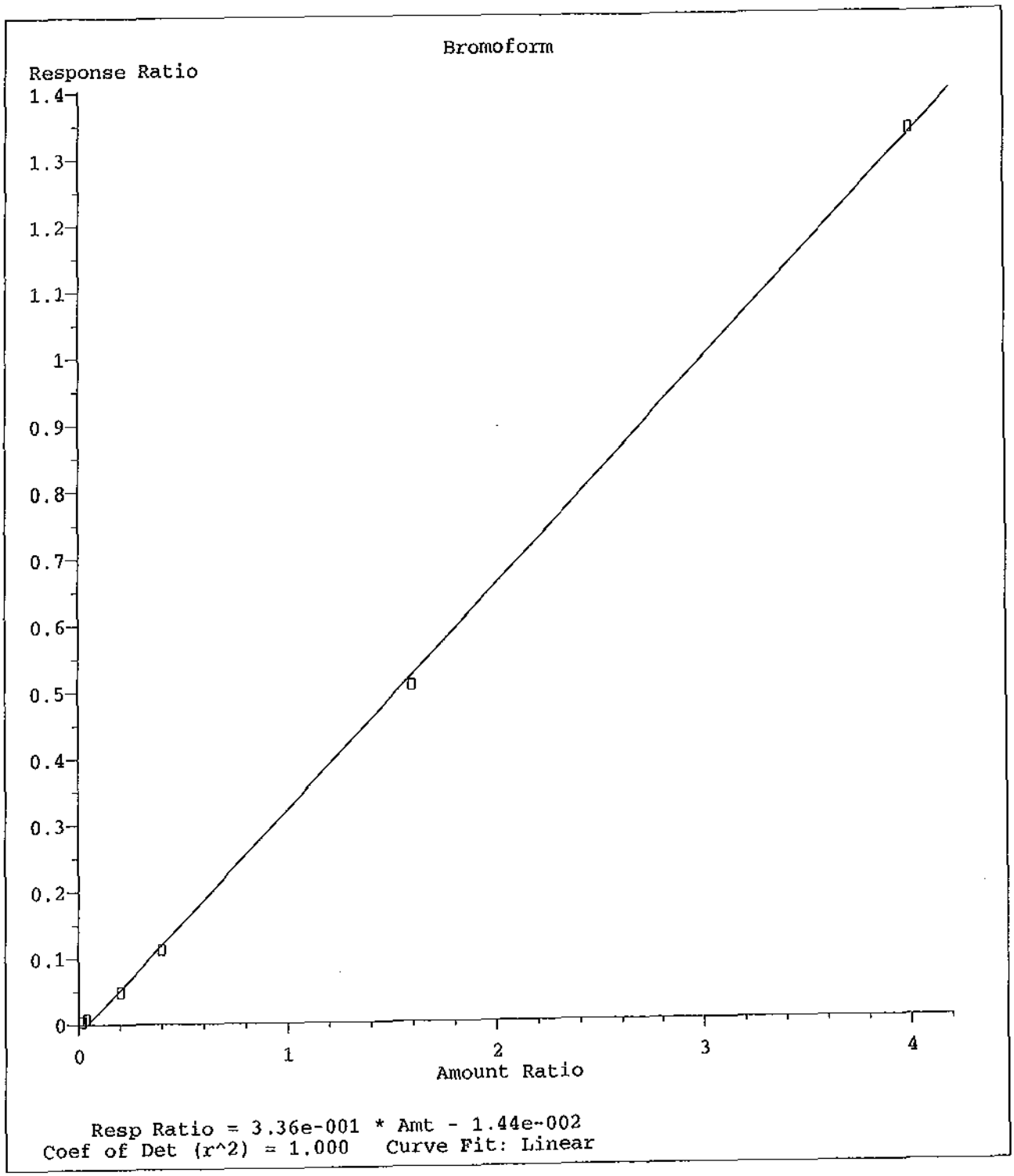
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



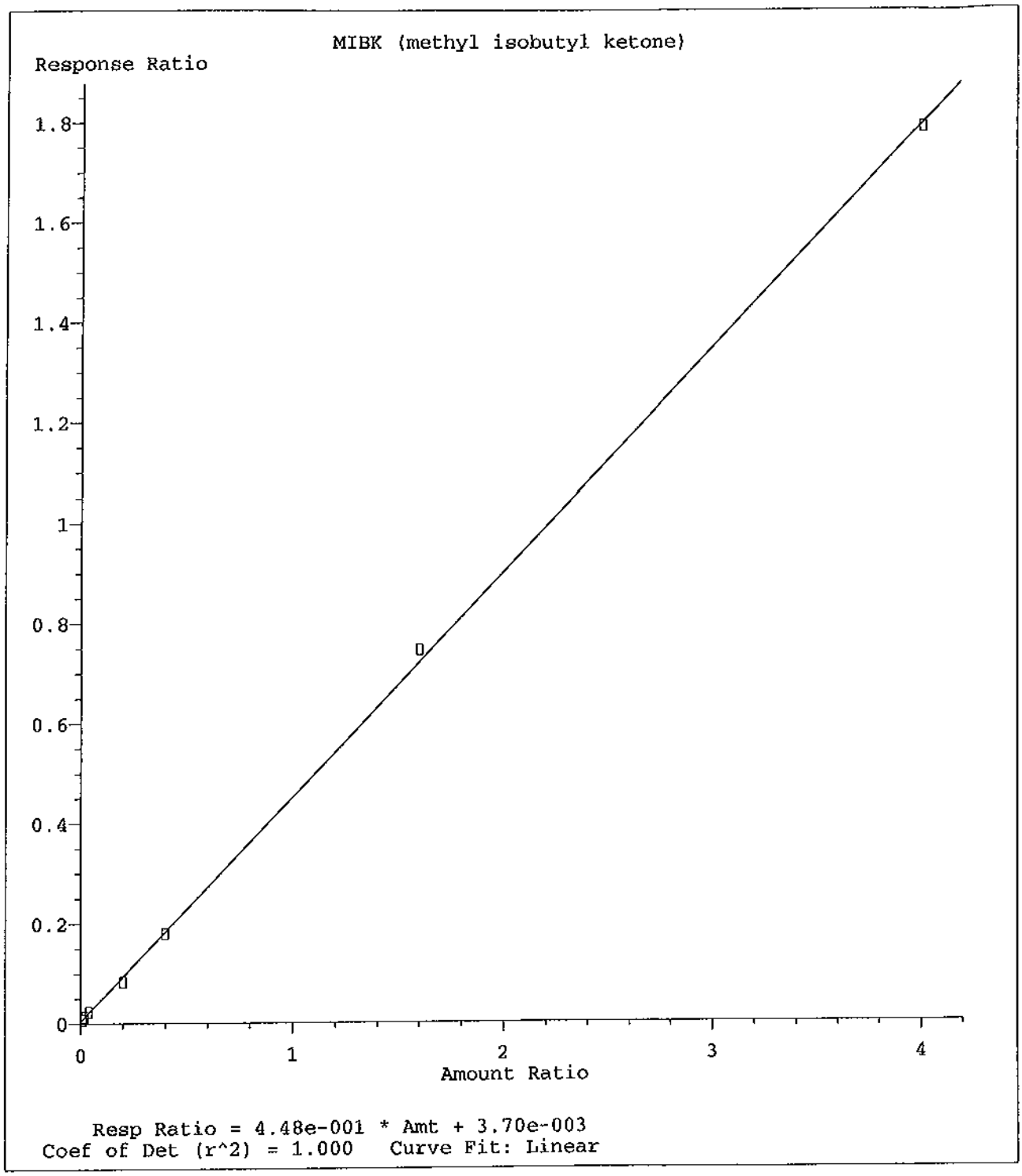
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



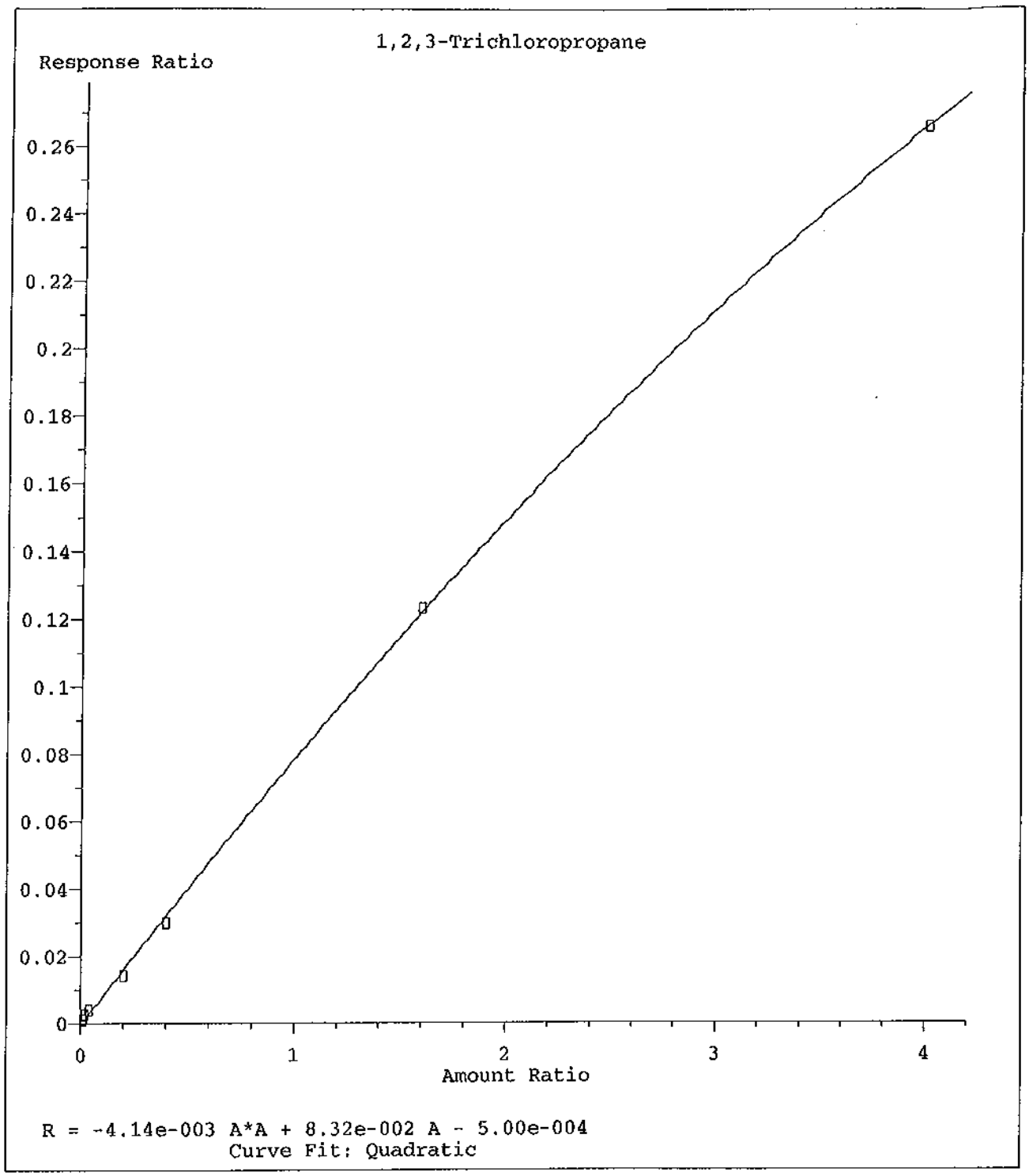
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



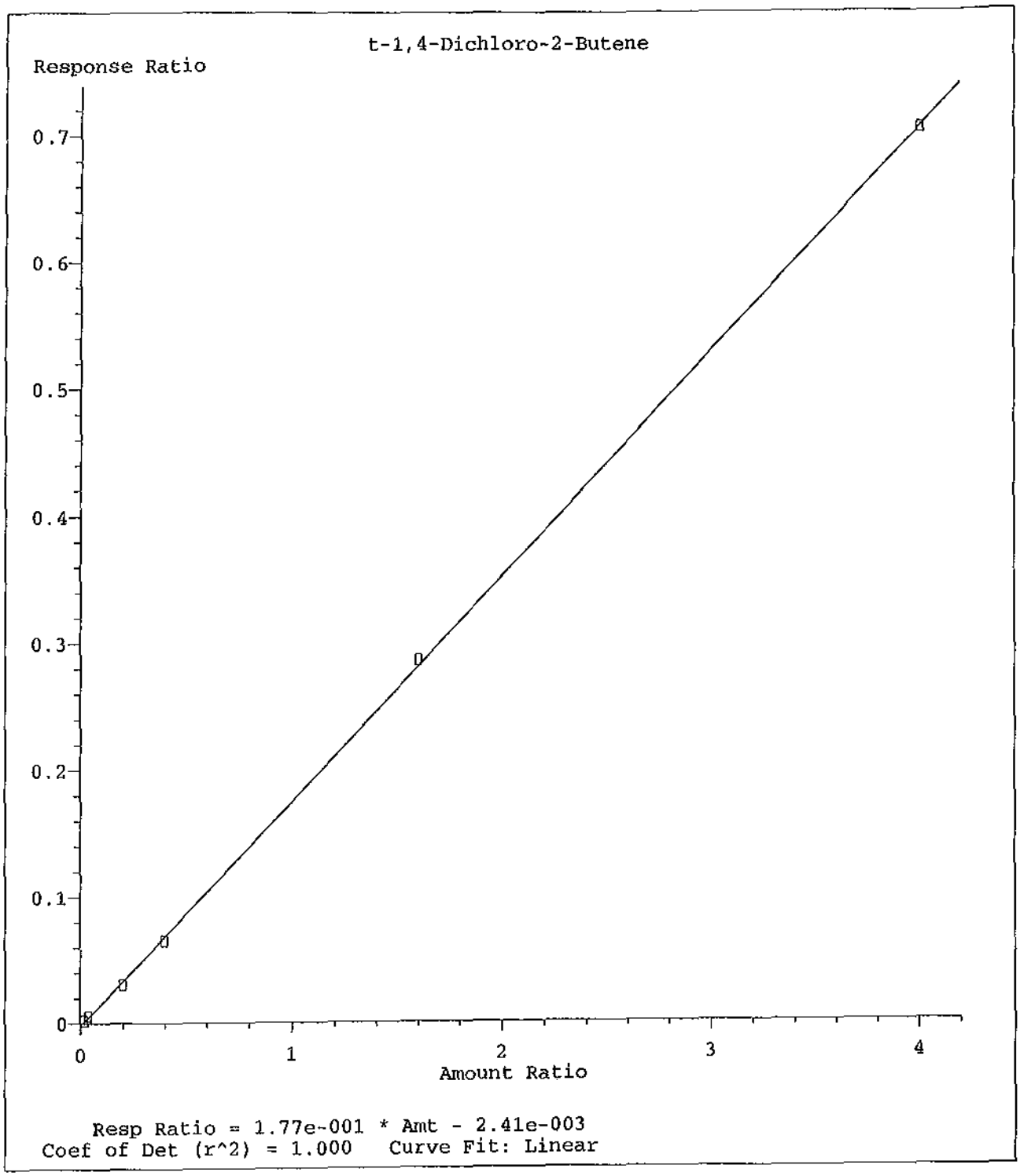
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



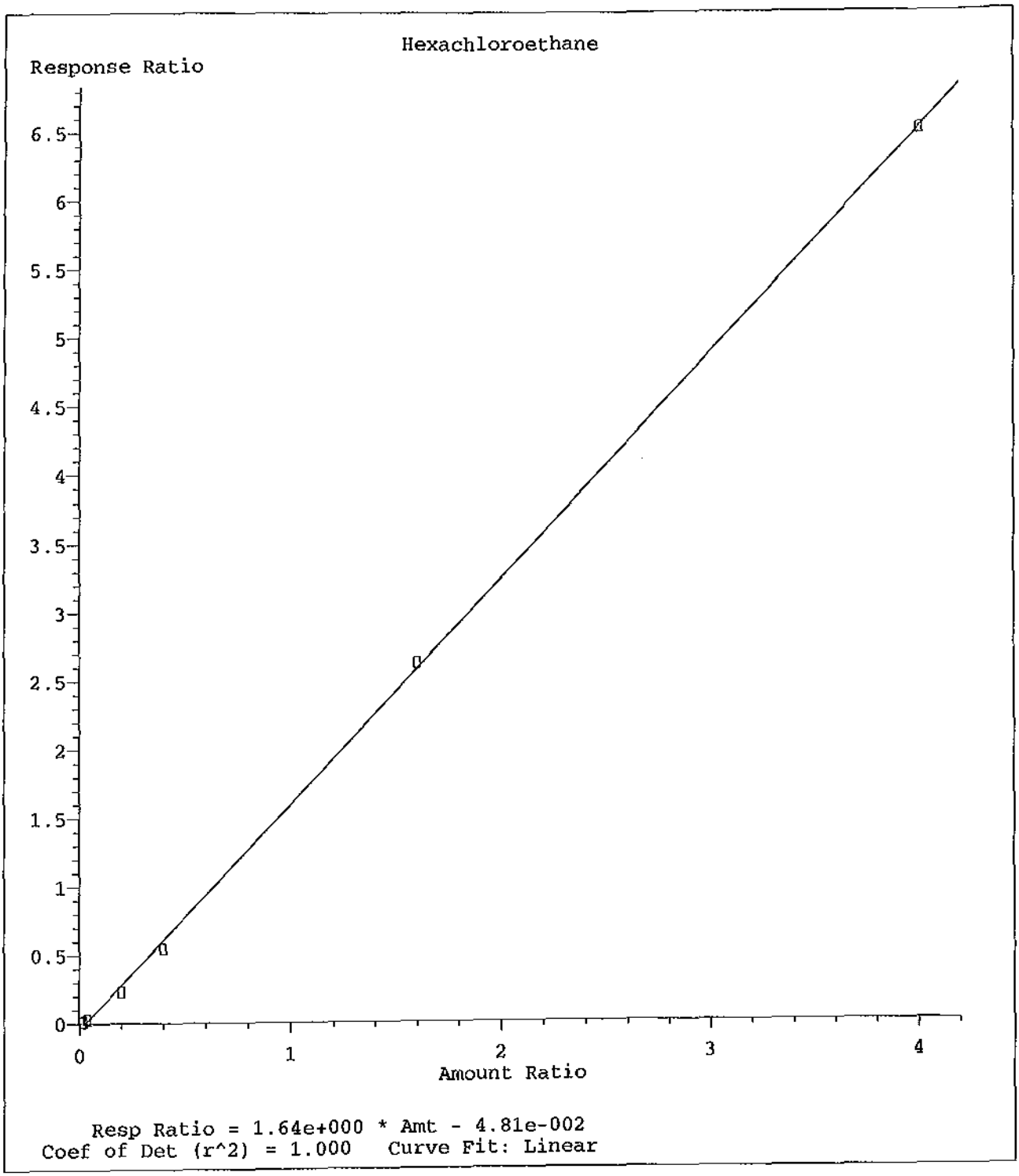
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



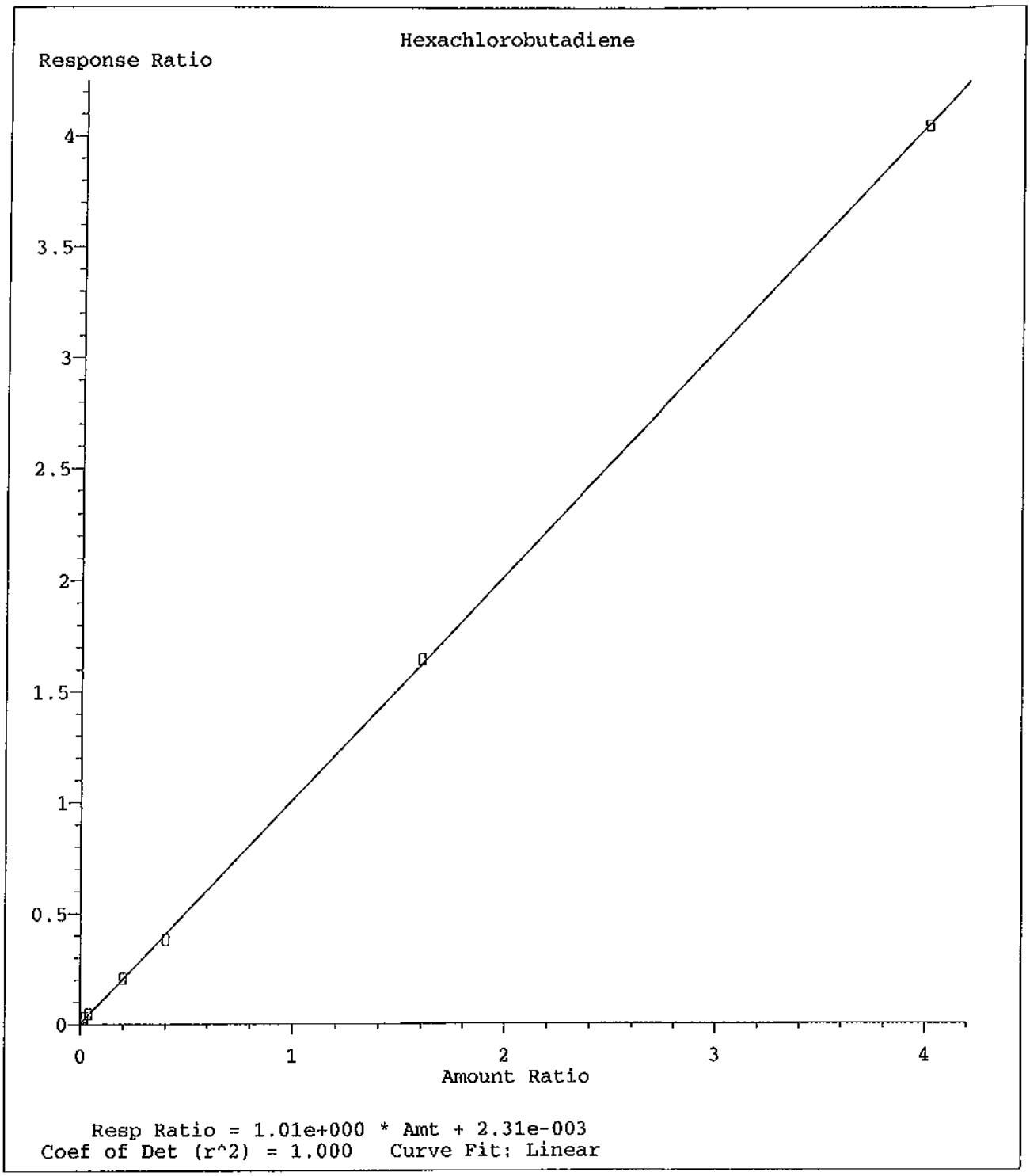
Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012



Method Name: M:\CHICO\DATA\C120125\CALLW.M
Calibration Table Last Updated: Fri Jan 27 12:42:43 2012

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66826
Date Analyzed: 01/27/12
Instrument: Chico
Initial Cal. Date: 01/25/12
Data File: 0127C03W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TMQ	Dichlorodifluoromethane	0.8036	0.8710	8.4	TMQ	1.2	
3	TM	Freon 114	0.3816	0.4342	14	TM		
4	TM**L	Chloromethane	0.3944	0.3276	17	TM**L	13	
5	TM*	Vinyl chloride	0.2792	0.3279	17	TM*		
6	TML	Bromomethane	0.1326	0.1812	37	TML	6.8	
7	TM	Chloroethane	0.1950	0.2127	9.0	TM		
8	TM	Dichlorofluoromethane	1.427	1.731	21	TM		*NT
9	TM	Trichlorofluoromethane	0.1879	0.1990	5.9	TM		
10		Acetonitrile	0.0265	0.0255	3.7			
11	TM	Acrolein	0.0056	0.0060	6.6	TM		
12	TML	Acetone	0.0843	0.0593	30	TML	6.7	
13	TM	Freon-113	0.5770	0.6613	15	TM		
14	TM*	1,1-DCE	0.3650	0.3816	4.5	TM*		
15	TM	t-Butanol	0.0027	0.0028	2.9	TM		
16	TML	Methyl Acetate	0.2197	0.1844	16	TML	4.0	
17	TML	Iodomethane	0.7035	0.9541	36	TML	17	
18	TM	Acrylonitrile	0.0707	0.0803	13	TM		
19	TML	Methylene chloride	0.6292	0.4848	23	TML	10.0	
20	TM	Carbon disulfide	0.3651	0.4008	9.8	TM		
21	TM	Methyl t-butyl ether (MtBE)	0.9185	0.9141	0.48	TM		
22	TML	Trans-1,2-DCE	0.4971	0.4899	1.5	TML	17	
23	TM	Diisopropyl Ether	1.959	2.166	11	TM		
24	TM**	1,1-DCA	0.9869	1.147	16	TM**		
25	TML	Vinyl Acetate	0.1192	0.1166	2.2	TML	15	
26	TM	Ethyl tert Butyl Ether	1.333	1.438	7.8	TM		
27	TMQ	MEK (2-Butanone)	0.0591	0.0508	14	TMQ	5.4	
28	TM	Cis-1,2-DCE	0.6605	0.6997	5.9	TM		
29	TM	2,2-Dichloropropane	0.8246	0.9823	19	TM		
30	TM*	Chloroform	1.055	1.216	15	TM*		
31	TM	Bromochloromethane	0.2005	0.2375	18	TM		
32	S	Dibromofluoromethane(S)	0.6655	0.6963	4.6	S		
33	TM	1,1,1-TCA	0.9106	1.008	11	TM		
34	TM	Cyclohexane	0.8672	0.9719	12	TM		
35	TM	1,1-Dichloropropene	0.6274	0.6867	9.5	TM		
36	TM	2,2,4-Trimethylpentane	1.687	1.889	12	TM		
37	S	1,2-DCA-D4(S)	0.4802	0.4861	1.2	S		
38	TML	Carbon Tetrachloride	0.5100	0.6735	32	TML	4.0	
39	TM	Tert Amyl Methyl Ether	1.052	1.099	4.5	TM		
40	TM	1,2-DCA	0.4450	0.4701	5.6	TM		
		Average			12.6			

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66826
Date Analyzed: 01/27/12
Instrument: Chico
Cal. Date: 01/25/12
Data File: 0127C03W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	Benzene	2.084	2.313	11	TM	
42	TM	TCE	0.5755	0.6726	17	TM	
43	TM	2-Pentanone	0.1416	0.1470	3.8	TM	
44	TM*	1,2-Dichloropropane	0.5519	0.6142	11	TM*	
45	TM	Bromodichloromethane	0.6400	0.7276	14	TM	
46	TM	Methyl Cyclohexane	0.8032	0.9267	15	TM	
47	TM	Dibromomethane	0.2265	0.2522	11	TM	
48	TM	2-Chloroethyl vinyl ether	0.1699	0.1636	3.7	TM	
49	TM	1-Bromo-2-chloroethane	0.4727	0.5375	14	TM	
50	TML	Cis-1,3-Dichloropropene	0.8228	0.8062	2.0	TML	5.3
51	TM*	Toluene	2.447	2.850	16	TM*	
52	TM	Trans-1,3-Dichloropropene	0.5305	0.5816	9.6	TM	
53	TM	1,1,2-TCA	0.2518	0.2992	19	TM	
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	3.159	3.197	1.2	S	
56	TM	1,2-EDB	0.3722	0.3833	3.0	TM	
57	TM	Tetrachloroethene	0.6782	0.7842	16	TM	
58	TM	1-Chlorohexane	1.247	1.467	18	TM	
59	TM	1,1,1,2-Tetrachloroethane	0.7008	0.7727	10	TM	
60	TM	m&p-Xylene	1.479	1.699	15	TM	
61	TM	o-Xylene	1.469	1.646	12	TM	
62	TM	Styrene	2.195	2.463	12	TM	
63	S	4-Bromofluorobenzene(S)	1.104	1.061	3.9	S	
64	TM	2-Hexanone	0.1356	0.1443	6.4	TM	
65	TM	1,3-Dichloropropane	0.6848	0.7273	6.2	TM	
66	TM	Dibromochloromethane	0.4975	0.5364	7.8	TM	
67	TM**	Chlorobenzene	2.147	2.355	9.7	TM**	
68	TM*	Ethylbenzene	3.917	4.318	10	TM*	
69	TM**L	Bromoform	0.2588	0.2664	2.9	TM**L	10.0
70	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
71	TML	MIBK (methyl isobutyl ketone)	0.5081	0.4327	15	TML	5.6
72	TM	Isopropylbenzene	7.473	8.565	15	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.6903	0.7522	9.0	TM**	
74	TMQ	1,2,3-Trichloropropane	0.0858	0.0710	17	TMQ	12
75	TML	t-1,4-Dichloro-2-Butene	0.1544	0.1693	9.7	TML	0.94
76	TM	Bromobenzene	1.771	1.910	7.8	TM	
77	TM	n-Propylbenzene	9.296	10.3	11	TM	
78	TM	4-Ethyltoluene	5.400	6.047	12	TM	
79	TM	2-Chlorotoluene	5.883	6.460	9.8	TM	
80	TM	1,3,5-Trimethylbenzene	6.080	6.997	15	TM	
		Average			10.6		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66826
Date Analyzed: 01/27/12
Instrument: Chico
Cal. Date: 01/25/12
Data File: 0127C03W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	4-Chlorotoluene	5.216	5.606	7.5	TM	
82	TM	Tert-Butylbenzene	6.961	7.520	8.0	TM	
83	TM	1,2,4-Trimethylbenzene	6.045	6.910	14	TM	
84	TM	Sec-Butylbenzene	8.588	9.857	15	TM	
85	TM	p-Isopropyltoluene	6.897	7.881	14	TM	
86	TM	Benzyl Chloride	1.394	1.436	3.0	TM	
87	TM	1,3-DCB	3.488	3.833	9.9	TM	
88	TM	1,4-DCB	3.391	3.637	7.3	TM	
89	TML	Hexachloroethane	1.129	1.611	43	TML	5.4
90	TM	n-Butylbenzene	6.331	7.159	13	TM	
91	TM	1,2-DCB	2.924	3.099	6.0	TM	
92	TM	1,2-Dibromo-3-chloropropane	0.1063	0.1101	3.6	TM	
93	TM	1,2,4-Trichlorobenzene	0.8362	0.9793	17	TM	
94	TML	Hexachlorobutadiene	1.104	1.126	2.0	TML	11
95	TM	Naphthalene	2.501	2.758	10	TM	
96	TM	1,2,3-Trichlorobenzene	0.6724	0.7871	17	TM	
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			11.9		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C03W.D Vial: 1
Acq On : 27 Jan 12 11:18 Operator: RS, ARS
Sample : 120127A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.78	96	593908	25.00000 ppb		0.01
54) Chlorobenzene-D5 (IS)	17.98	117	495744	25.00000 ppb		0.01
70) 1,4-Dichlorobenzene-D (IS)	22.17	152	259520	25.00000 ppb		0.01
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.37	111	398968	25.23506 ppb		0.01
Spiked Amount 24.119			Recovery = 104.626%			
37) 1,2-DCA-D4(S)	12.17	65	264133	23.15566 ppb		0.01
Spiked Amount 22.874			Recovery = 101.232%			
55) Toluene-D8(S)	15.44	98	1569371	25.05070 ppb		0.01
Spiked Amount 24.755			Recovery = 101.195%			
63) 4-Bromofluorobenzene(S)	20.05	95	563187	25.72241 ppb		0.01
Spiked Amount 26.777			Recovery = 96.059%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	4.06	85	206927	9.88277 ppb		97
3) Freon 114	4.31	85	103140	11.37726 ppb		98
4) Chloromethane	4.52	50	77823	8.69892 ppb		99
5) Vinyl chloride	4.80	62	77896	11.74424 ppb		91
6) Bromomethane	5.69	94	43048	10.67648 ppb		88
7) Chloroethane	5.88	64	50525	10.90472 ppb		100
8) Dichlorofluoromethane	5.97	67	411111	12.12331 ppb		96
9) Trichlorofluoromethane	6.47	103	47280	10.59224 ppb		94
10) Acetonitrile	7.62	41	75817	120.35811 ug/l		100
11) Acrolein	7.11	56	17812	133.28685 ppb		98
12) Acetone	7.25	43	14083	10.66536 ppb	#	86
13) Freon-113	7.41	101	157093	11.45994 ppb		89
14) 1,1-DCE	7.63	96	90654	10.45368 ppb		84
15) t-Butanol	7.72	59	8384	128.65365 ppb	#	93
16) Methyl Acetate	8.15	43	43802	9.59877 ppb		97
17) Iodomethane	8.12	142	226666	11.70477 ppb		100
18) Acrylonitrile	8.52	53	19071	11.34711 ppb		90
19) Methylene chloride	8.43	84	115177	10.99920 ppb		91
20) Carbon disulfide	8.51	76	95216	10.97798 ppb		97
21) Methyl t-butyl ether (MtBE	8.84	73	217158	9.95162 ppb		97
22) Trans-1,2-DCE	9.05	96	116372	11.73985 ppb		99
23) Diisopropyl Ether	9.71	45	514646	11.05569 ppb		98
24) 1,1-DCA	9.73	63	272370	11.61695 ppb		98
25) Vinyl Acetate	9.38	43	27696	11.51451 ppb		98
26) Ethyl tert Butyl Ether	10.39	59	341509	10.78028 ppb		98
27) MEK (2-Butanone)	10.38	43	12060	9.46092 ppb		95
28) Cis-1,2-DCE	10.76	96	166222	10.59299 ppb		96
29) 2,2-Dichloropropane	10.76	77	233364	11.91211 ppb		100
30) Chloroform	11.04	83	288979	11.53354 ppb		98
31) Bromochloromethane	11.26	128	56430	11.84644 ppb		85
33) 1,1,1-TCA	11.79	97	239566	11.07452 ppb		98
34) Cyclohexane	11.94	56	230891	11.20729 ppb		94
35) 1,1-Dichloropropene	12.05	75	163135	10.94562 ppb		97
36) 2,2,4-Trimethylpentane	12.12	57	448745	11.20012 ppb		99
38) Carbon Tetrachloride	12.24	117	159990	10.39756 ppb		94
39) Tert Amyl Methyl Ether	12.30	73	260987	10.44579 ppb		95
40) 1,2-DCA	12.32	62	111671	10.56284 ppb		94
41) Benzene	12.44	78	549488	11.09682 ppb		97
42) TCE	13.48	95	159779	11.68668 ppb		96

Algorithm Check: $\frac{(77896)(25)}{(593908)(0.2791471)} = 11.744248\,79455$ ✓ ARS 1/31/12

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C03W.D Vial: 1
Acq On : 27 Jan 12 11:18 Operator: RS, ARS
Sample : 120127A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.15	43	436494	129.75465	ppb		97
44)	1,2-Dichloropropane	13.71	63	145909	11.12942	ppb	#	96
45)	Bromodichloromethane	14.06	83	172853	11.36905	ppb		97
46)	Methyl Cyclohexane	13.76	83	220156	11.53752	ppb		100
47)	Dibromomethane	14.12	93	59909	11.13149	ppb		89
48)	2-Chloroethyl vinyl ether	14.52	63	38877	9.63187	ppb	#	89
49)	1-Bromo-2-chloroethane	14.82	63	127690	11.36993	ppb		86
50)	Cis-1,3-Dichloropropene	14.95	75	191518	10.52664	ppb		94
51)	Toluene	15.58	91	677066	11.64919	ppb		98
52)	Trans-1,3-Dichloropropene	15.74	75	138172	10.96313	ppb		98
53)	1,1,2-TCA	16.02	83	71071	11.88216	ppb		91
56)	1,2-EDB	17.27	107	76014	10.29867	ppb		98
57)	Tetrachloroethene	16.73	164	155497	11.56223	ppb		96
58)	1-Chlorohexane	17.65	91	290855	11.76186	ppb		99
59)	1,1,1,2-Tetrachloroethane	18.10	131	153219	11.02555	ppb		89
60)	m&p-Xylene	18.30	106	674004	22.97781	ppb		96
61)	o-Xylene	19.04	106	326383	11.20392	ppb		90
62)	Styrene	19.06	104	488478	11.22216	ppb		96
64)	2-Hexanone	16.05	43	28607	10.63893	ppb		94
65)	1,3-Dichloropropane	16.44	76	144224	10.62053	ppb		99
66)	Dibromochloromethane	16.91	129	106363	10.78241	ppb		97
67)	Chlorobenzene	18.04	112	466961	10.96896	ppb		98
68)	Ethylbenzene	18.15	91	856272	11.02266	ppb		100
69)	Bromoform	19.57	173	52823	9.00017	ppb		89
71)	MIBK (methyl isobutyl keto	14.62	43	44915	9.44253	ppb	#	82
72)	Isopropylbenzene	19.67	105	889090	11.46103	ppb		98
73)	1,1,2,2-Tetrachloroethane	19.83	83	78084	10.89728	ppb		97
74)	1,2,3-Trichloropropane	20.09	110	7370	8.83575	ppb		100
75)	t-1,4-Dichloro-2-Butene	20.16	53	17579	9.90566	ppb	#	73
76)	Bromobenzene	20.40	156	198279	10.78428	ppb		97
77)	n-Propylbenzene	20.38	91	1071977	11.10819	ppb		98
78)	4-Ethyltoluene	20.58	105	627697	11.19677	ppb		98
79)	2-Chlorotoluene	20.68	91	670568	10.98117	ppb		99
80)	1,3,5-Trimethylbenzene	20.65	105	726307	11.50731	ppb		98
81)	4-Chlorotoluene	20.75	91	581979	10.74791	ppb		94
82)	Tert-Butylbenzene	21.29	119	780643	10.80242	ppb		98
83)	1,2,4-Trimethylbenzene	21.35	105	717360	11.43124	ppb		99
84)	Sec-Butylbenzene	21.69	105	1023256	11.47728	ppb		99
85)	p-Isopropyltoluene	21.92	119	818160	11.42699	ppb		98
86)	Benzyl Chloride	22.37	91	149105	10.30196	ppb		99
87)	1,3-DCB	22.07	146	397923	10.98919	ppb		97
88)	1,4-DCB	22.23	146	377598	10.72613	ppb		99
89)	Hexachloroethane	23.54	117	167277	10.54410	ppb		98
90)	n-Butylbenzene	22.64	91	743128	11.30769	ppb		99
91)	1,2-DCB	22.86	146	321677	10.59693	ppb		97
92)	1,2-Dibromo-3-chloropropan	24.08	155	11432	10.36081	ppb		76
93)	1,2,4-Trichlorobenzene	25.53	180	101656	11.71079	ppb		98
94)	Hexachlorobutadiene	25.77	223	116891	11.06348	ppb		96
95)	Naphthalene	25.88	128	286286	11.02681	ppb		97
96)	1,2,3-Trichlorobenzene	26.24	180	81708	11.70539	ppb		97

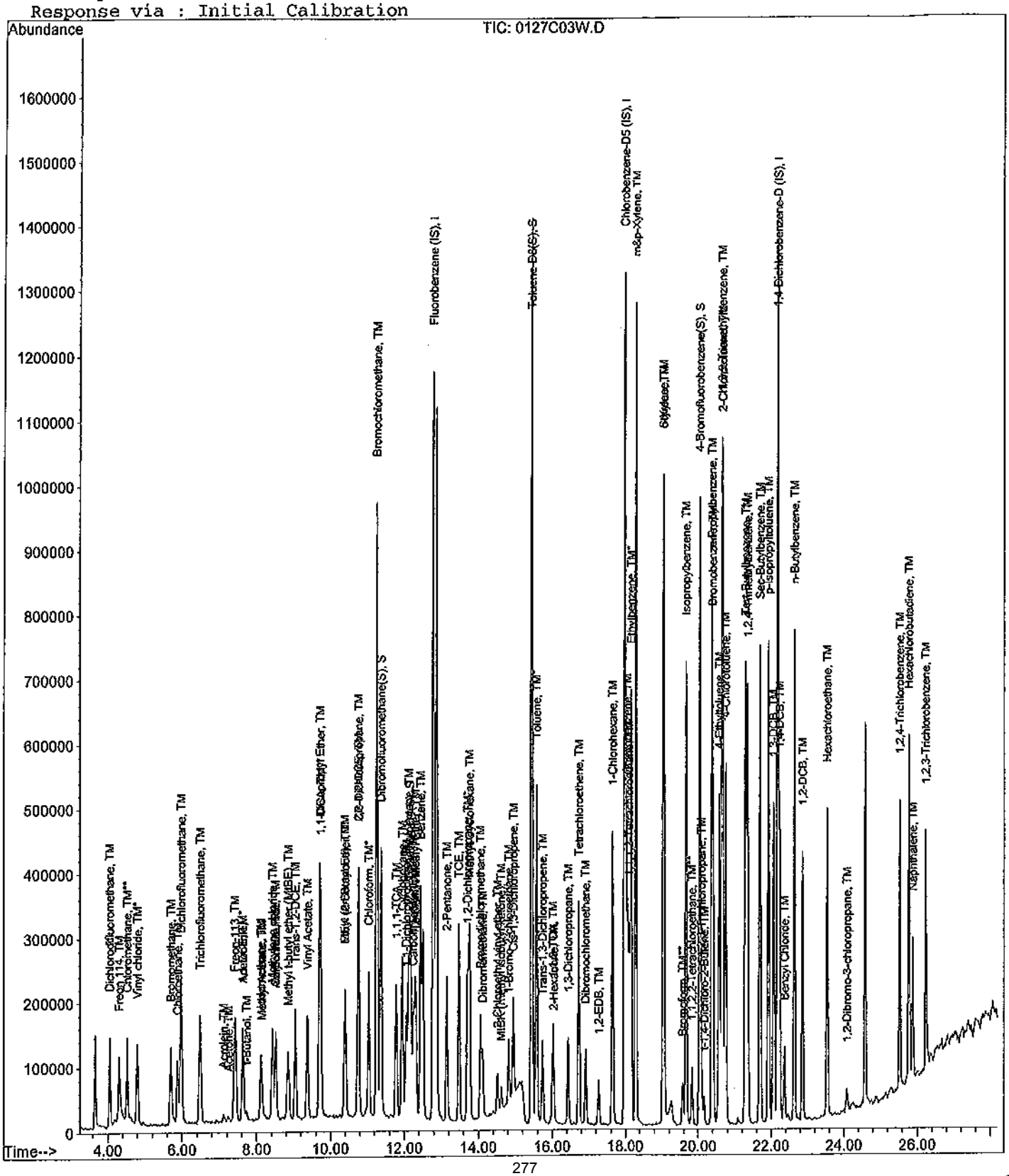
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C03W.D Vial: 1
Acq On : 27 Jan 12 11:18 Operator: RS, ARS
Sample : 120127A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66826
Date Analyzed: 01/27/12
Instrument: Chico
Initial Cal. Date: 01/25/12
Data File: 0127C02W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TMQ	Dichlorodifluoromethane	0.8036	0.8653	7.7	TMQ	1.8	
3	TM	Freon 114	0.3816	0.4076	6.8	TM		
4	TM**L	Chloromethane	0.3944	0.3065	22	TM**L	19	
5	TM*	Vinyl chloride	0.2792	0.3029	8.5	TM*		
6	TML	Bromomethane	0.1326	0.1810	36	TML	6.7	
7	TM	Chloroethane	0.1950	0.2111	8.2	TM		
8	TM	Dichlorofluoromethane	1.427	1.738	22	TM		*NT
9	TM	Trichlorofluoromethane	0.1879	0.2075	10	TM		
10		Acetonitrile	0.0265	0.0294	11			
11	TM	Acrolein	0.0056	0.0067	20	TM		
12	TML	Acetone	0.0843	0.0583	31	TML	4.6	
13	TM	Freon-113	0.5770	0.6256	8.4	TM		
14	TM*	1,1-DCE	0.3650	0.3607	1.2	TM*		
15	TM	t-Butanol	0.0027	0.0025	7.9	TM		
16	TML	Methyl Acetate	0.2197	0.1850	16	TML	3.7	
17	TML	Iodomethane	0.7035	0.9295	32	TML	14	
18	TM	Acrylonitrile	0.0707	0.0792	12	TM		
19	TML	Methylene chloride	0.6292	0.5041	20	TML	15	
20	TM	Carbon disulfide	0.3651	0.3849	5.4	TM		
21	TM	Methyl t-butyl ether (MtBE)	0.9185	0.9439	2.8	TM		
22	TML	Trans-1,2-DCE	0.4971	0.4594	7.6	TML	9.9	
23	TM	Diisopropyl Ether	1.959	2.185	12	TM		
24	TM**	1,1-DCA	0.9869	1.144	16	TM**		
25	TML	Vinyl Acetate	0.1192	0.1077	9.6	TML	6.3	
26	TM	Ethyl tert Butyl Ether	1.333	1.414	6.0	TM		
27	TMQ	MEK (2-Butanone)	0.0591	0.0579	2.1	TMQ	8.2	
28	TM	Cis-1,2-DCE	0.6605	0.7343	11	TM		
29	TM	2,2-Dichloropropane	0.8246	1.014	23	TM		*NT
30	TM*	Chloroform	1.055	1.212	15	TM*		
31	TM	Bromochloromethane	0.2005	0.2388	19	TM		
32	S	Dibromofluoromethane(S)	0.6655	0.6939	4.3	S		
33	TM	1,1,1-TCA	0.9106	1.004	10	TM		
34	TM	Cyclohexane	0.8672	0.9048	4.3	TM		
35	TM	1,1-Dichloropropene	0.6274	0.6703	6.8	TM		
36	TM	2,2,4-Trimethylpentane	1.687	1.737	3.0	TM		
37	S	1,2-DCA-D4(S)	0.4802	0.5075	5.7	S		
38	TML	Carbon Tetrachloride	0.5100	0.6407	26	TML	0.64	
39	TM	Tert Amyl Methyl Ether	1.052	1.095	4.1	TM		
40	TM	1,2-DCA	0.4450	0.4855	9.1	TM		
		Average			12.4			

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66826
Date Analyzed: 01/27/12
Instrument: Chico
Cal. Date: 01/25/12
Data File: 0127C02W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	Benzene	2.084	2.356	13	TM	
42	TM	TCE	0.5755	0.6880	20	TM	
43	TM	2-Pentanone	0.1416	0.1490	5.2	TM	
44	TM*	1,2-Dichloropropane	0.5519	0.6329	15	TM*	
45	TM	Bromodichloromethane	0.6400	0.7263	13	TM	
46	TM	Methyl Cyclohexane	0.8032	0.8578	6.8	TM	
47	TM	Dibromomethane	0.2265	0.2507	11	TM	
48	TM	2-Chloroethyl vinyl ether	0.1699	0.1618	4.7	TM	
49	TM	1-Bromo-2-chloroethane	0.4727	0.5273	12	TM	
50	TML	Cis-1,3-Dichloropropene	0.8228	0.8418	2.3	TML	10
51	TM*	Toluene	2.447	2.859	17	TM*	
52	TM	Trans-1,3-Dichloropropene	0.5305	0.5879	11	TM	
53	TM	1,1,2-TCA	0.2518	0.2942	17	TM	
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	3.159	3.395	7.4	S	
56	TM	1,2-EDB	0.3722	0.4083	9.7	TM	
57	TM	Tetrachloroethene	0.6782	0.7881	16	TM	
58	TM	1-Chlorohexane	1.247	1.468	18	TM	
59	TM	1,1,1,2-Tetrachloroethane	0.7008	0.8113	16	TM	
60	TM	m&p-Xylene	1.479	1.726	17	TM	
61	TM	o-Xylene	1.469	1.728	18	TM	
62	TM	Styrene	2.195	2.559	17	TM	
63	S	4-Bromofluorobenzene(S)	1.104	1.115	1.0	S	
64	TM	2-Hexanone	0.1356	0.1520	12	TM	
65	TM	1,3-Dichloropropane	0.6848	0.7315	6.8	TM	
66	TM	Dibromochloromethane	0.4975	0.5625	13	TM	
67	TM**	Chlorobenzene	2.147	2.440	14	TM**	
68	TM*	Ethylbenzene	3.917	4.441	13	TM*	
69	TM**L	Bromoform	0.2588	0.2808	8.5	TM**L	5.7
70	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
71	TML	MIBK (methyl isobutyl ketone)	0.5081	0.4414	13	TML	3.6
72	TM	Isopropylbenzene	7.473	8.535	14	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.6903	0.7635	11	TM**	
74	TMQ	1,2,3-Trichloropropane	0.0858	0.0740	14	TMQ	7.9
75	TML	t-1,4-Dichloro-2-Butene	0.1544	0.1552	0.53	TML	8.9
76	TM	Bromobenzene	1.771	1.903	7.5	TM	
77	TM	n-Propylbenzene	9.296	10.3	10	TM	
78	TM	4-Ethyltoluene	5.400	6.023	12	TM	
79	TM	2-Chlorotoluene	5.883	6.436	9.4	TM	
80	TM	1,3,5-Trimethylbenzene	6.080	6.922	14	TM	
		Average			11.6		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66826
Date Analyzed: 01/27/12
Instrument: Chico
Cal. Date: 01/25/12
Data File: 0127C02W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	4-Chlorotoluene	5.216	5.565	6.7	TM	
82	TM	Tert-Butylbenzene	6.961	7.367	5.8	TM	
83	TM	1,2,4-Trimethylbenzene	6.045	6.793	12	TM	
84	TM	Sec-Butylbenzene	8.588	9.628	12	TM	
85	TM	p-Isopropyltoluene	6.897	7.827	13	TM	
86	TM	Benzyl Chloride	1.394	1.426	2.3	TM	
87	TM	1,3-DCB	3.488	3.872	11	TM	
88	TM	1,4-DCB	3.391	3.621	6.8	TM	
89	TML	Hexachloroethane	1.129	1.541	37	TML	1.2
90	TM	n-Butylbenzene	6.331	7.029	11	TM	
91	TM	1,2-DCB	2.924	3.050	4.3	TM	
92	TM	1,2-Dibromo-3-chloropropane	0.1063	0.1036	2.6	TM	
93	TM	1,2,4-Trichlorobenzene	0.8362	1.005	20	TM	
94	TML	Hexachlorobutadiene	1.104	1.152	4.3	TML	13
95	TM	Naphthalene	2.501	2.778	11	TM	
96	TM	1,2,3-Trichlorobenzene	0.6724	0.7760	15	TM	
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			10.9		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C02W.D Vial: 1
Acq On : 27 Jan 12 10:41 Operator: RS, ARS
Sample : 10ug/L Vol Std 01-27-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.78	96	578666	25.00000	ppb		0.01
54) Chlorobenzene-D5 (IS)	17.98	117	469312	25.00000	ppb		0.01
70) 1,4-Dichlorobenzene-D (IS)	22.17	152	257152	25.00000	ppb		0.01
System Monitoring Compounds							
32) Dibromofluoromethane(S)	11.36	111	387371	25.14691	ppb		0.00
Spiked Amount 24.119			Recovery = 104.261%				
37) 1,2-DCA-D4(S)	12.17	65	268702	24.17667	ppb		0.01
Spiked Amount 22.874			Recovery = 105.695%				
55) Toluene-D8(S)	15.44	98	1577504	26.59870	ppb		0.01
Spiked Amount 24.755			Recovery = 107.449%				
63) 4-Bromofluorobenzene(S)	20.05	95	560654	27.04891	ppb		0.01
Spiked Amount 26.777			Recovery = 101.015%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.06	85	200281	9.82158	ppb		98
3) Freon 114	4.31	85	94357	10.68257	ppb		96
4) Chloromethane	4.52	50	70947	8.11873	ppb		99
5) Vinyl chloride	4.80	62	70120	10.85033	ppb		98
6) Bromomethane	5.69	94	41904	10.66775	ppb		93
7) Chloroethane	5.88	64	48868	10.82490	ppb		99
8) Dichlorofluoromethane	5.97	67	402355	12.17762	ppb		97
9) Trichlorofluoromethane	6.48	103	48040	11.04599	ppb		96
10) Acetonitrile	7.62	41	84933	138.38099	ug/l		100
11) Acrolein	7.11	56	19499	149.75391	ppb		83
12) Acetone	7.24	43	13490	10.45850	ppb		98
13) Freon-113	7.41	101	144810	10.84214	ppb		93
14) 1,1-DCE	7.63	96	83494	9.88164	ppb		79
15) t-Butanol	7.73	59	7313	115.17484	ppb		98
16) Methyl Acetate	8.14	43	42822	9.63328	ppb		100
17) Iodomethane	8.12	142	215145	11.41027	ppb		99
18) Acrylonitrile	8.52	53	18325	11.19044	ppb		92
19) Methylene chloride	8.42	84	116672	11.48123	ppb		93
20) Carbon disulfide	8.51	76	89088	10.54200	ppb		99
21) Methyl t-butyl ether (MtBE	8.84	73	218488	10.27630	ppb		97
22) Trans-1,2-DCE	9.05	96	106342	10.99329	ppb		91
23) Diisopropyl Ether	9.70	45	505815	11.15219	ppb		98
24) 1,1-DCA	9.73	63	264888	11.59541	ppb		98
25) Vinyl Acetate	9.38	43	24928	10.63277	ppb		97
26) Ethyl tert Butyl Ether	10.39	59	327244	10.60207	ppb		98
27) MEK (2-Butanone)	10.39	43	13396	10.81637	ppb		95
28) Cis-1,2-DCE	10.76	96	169961	11.11657	ppb		95
29) 2,2-Dichloropropane	10.75	77	234757	12.29885	ppb		94
30) Chloroform	11.03	83	280591	11.49374	ppb		96
31) Bromochloromethane	11.26	128	55268	11.90811	ppb		92
33) 1,1,1-TCA	11.78	97	232372	11.02490	ppb		95
34) Cyclohexane	11.94	56	209439	10.43380	ppb		99
35) 1,1-Dichloropropene	12.06	75	155162	10.68488	ppb		96
36) 2,2,4-Trimethylpentane	12.12	57	402048	10.29893	ppb		96
38) Carbon Tetrachloride	12.24	117	148300	9.93605	ppb		95
39) Tert Amyl Methyl Ether	12.30	73	253359	10.40758	ppb	#	92
40) 1,2-DCA	12.33	62	112383	10.91019	ppb		97
41) Benzene	12.44	78	545333	11.30298	ppb		98
42) TCE	13.48	95	159238	11.95389	ppb		90

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C02W.D Vial: 1
Acq On : 27 Jan 12 10:41 Operator: RS, ARS
Sample : 10ug/L Vol Std 01-27-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43) 2-Pentanone	13.15	43	431121	131.53309 ppb		96
44) 1,2-Dichloropropane	13.70	63	146489	11.46798 ppb		97
45) Bromodichloromethane	14.06	83	168124	11.34928 ppb		94
46) Methyl Cyclohexane	13.76	83	198550	10.67931 ppb		99
47) Dibromomethane	14.12	93	58039	11.06808 ppb		88
48) 2-Chloroethyl vinyl ether	14.51	63	37461	9.52551 ppb		94
49) 1-Bromo-2-chloroethane	14.82	63	122062	11.15508 ppb		91
50) Cis-1,3-Dichloropropene	14.95	75	194849	11.00386 ppb		98
51) Toluene	15.58	91	661746	11.68550 ppb		99
52) Trans-1,3-Dichloropropene	15.74	75	136090	11.08235 ppb		88
53) 1,1,2-TCA	16.02	83	68089	11.68345 ppb		83
56) 1,2-EDB	17.27	107	76645	10.96900 ppb		95
57) Tetrachloroethene	16.73	164	147948	11.62049 ppb		98
58) 1-Chlorohexane	17.65	91	275628	11.77386 ppb		96
59) 1,1,1,2-Tetrachloroethane	18.10	131	152303	11.57689 ppb		97
60) m&p-Xylene	18.30	106	648118	23.33974 ppb		99
61) o-Xylene	19.04	106	324466	11.76543 ppb		93
62) Styrene	19.06	104	480351	11.65698 ppb		99
64) 2-Hexanone	16.05	43	28543	11.21298 ppb		90
65) 1,3-Dichloropropane	16.44	76	137318	10.68149 ppb		96
66) Dibromochloromethane	16.91	129	105598	11.30777 ppb		96
67) Chlorobenzene	18.04	112	458058	11.36583 ppb		98
68) Ethylbenzene	18.15	91	833598	11.33515 ppb		100
69) Bromoform	19.58	173	52707	9.42842 ppb		99
71) MIBK (methyl isobutyl keto	14.62	43	45404	9.63740 ppb		93
72) Isopropylbenzene	19.67	105	877944	11.42157 ppb		98
73) 1,1,2,2-Tetrachloroethane	19.83	83	78537	11.06143 ppb		97
74) 1,2,3-Trichloropropane	20.09	110	7608	9.20557 ppb		89
75) t-1,4-Dichloro-2-Butene	20.15	53	15965	9.10743 ppb	#	72
76) Bromobenzene	20.41	156	195765	10.74559 ppb		90
77) n-Propylbenzene	20.37	91	1055737	11.04065 ppb		99
78) 4-Ethyltoluene	20.58	105	619568	11.15353 ppb		99
79) 2-Chlorotoluene	20.67	91	661978	10.94032 ppb		99
80) 1,3,5-Trimethylbenzene	20.65	105	712038	11.38512 ppb		100
81) 4-Chlorotoluene	20.75	91	572433	10.66897 ppb		97
82) Tert-Butylbenzene	21.29	119	757805	10.58295 ppb		99
83) 1,2,4-Trimethylbenzene	21.35	105	698686	11.23619 ppb		98
84) Sec-Butylbenzene	21.69	105	990365	11.21065 ppb		98
85) p-Isopropyltoluene	21.92	119	805057	11.34752 ppb		99
86) Benzyl Chloride	22.37	91	146653	10.22585 ppb		97
87) 1,3-DCB	22.06	146	398252	11.09956 ppb		98
88) 1,4-DCB	22.23	146	372436	10.67692 ppb		98
89) Hexachloroethane	23.54	117	158556	10.11819 ppb		97
90) n-Butylbenzene	22.64	91	723013	11.10292 ppb		98
91) 1,2-DCB	22.86	146	313687	10.42887 ppb		98
92) 1,2-Dibromo-3-chloropropan	24.08	155	10653	9.74371 ppb		97
93) 1,2,4-Trichlorobenzene	25.52	180	103416	12.02325 ppb		95
94) Hexachlorobutadiene	25.78	223	118531	11.32335 ppb		91
95) Naphthalene	25.88	128	285724	11.10651 ppb		99
96) 1,2,3-Trichlorobenzene	26.24	180	79818	11.53993 ppb		96

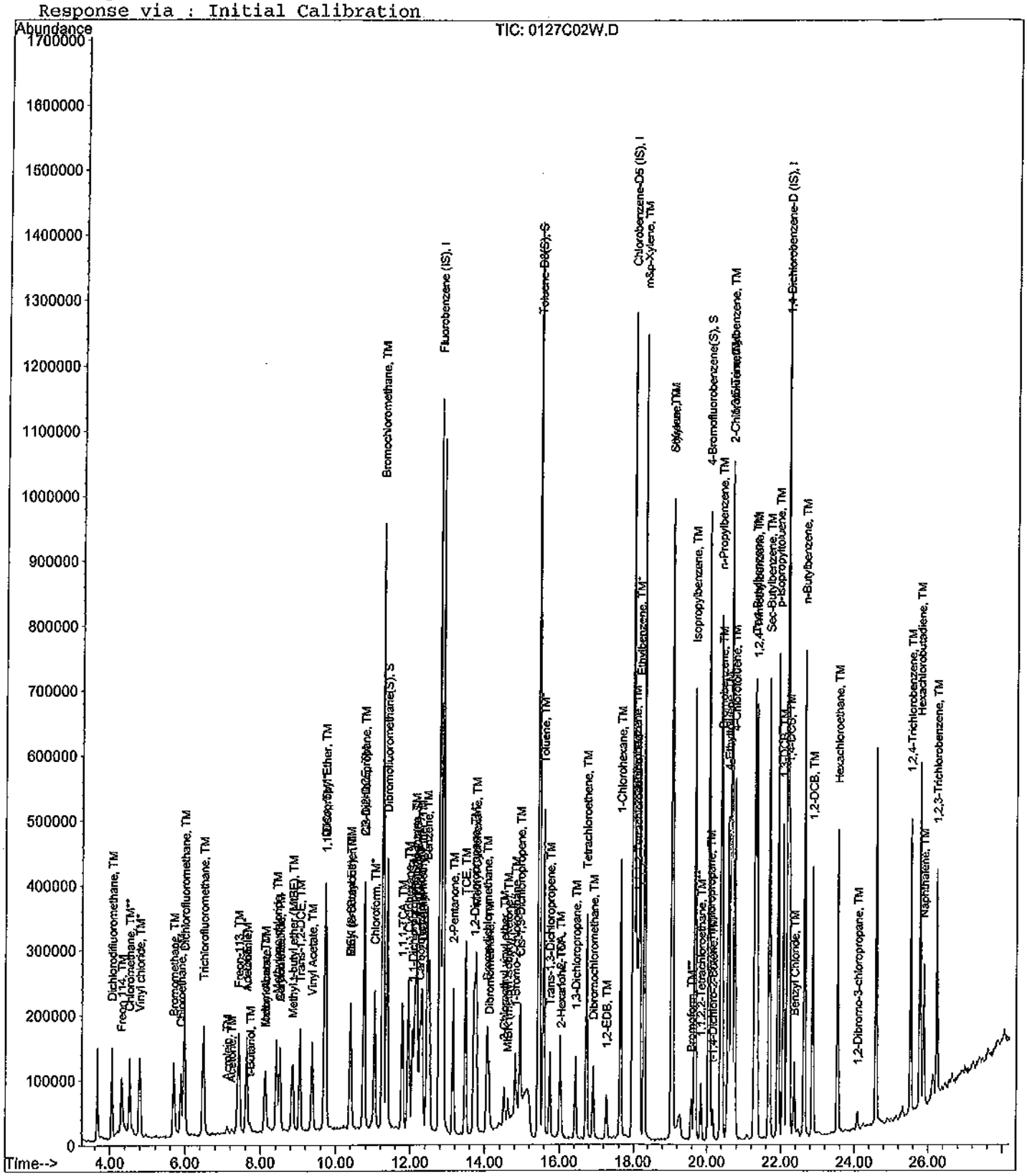
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C02W.D Vial: 1
Acq On : 27 Jan 12 10:41 Operator: RS, ARS
Sample : 10ug/L Vol Std 01-27-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66826
Case No: Initial Cal. Date: 01/31/12
Matrix: Water Instrument: Thor Initials:

		Compound	0131T04W.D 0.3	0131T05W.D 0.5	0131T06W.D 1	0131T07W.D 5	0131T08W.D 10	0131T09W.D 20	0131T10W.D 40	0131T11W.D 100			Avg	%RSD		r2
1	I	Fluorobenzene (IS)														
2	TM	Dichlorodifluoromethane	0.2549	0.2375	0.2746	0.2473	0.2865	0.2916	0.3128	0.3147			0.28	11	TM	
3	TM	Freon 114	0.1208	0.1484	0.1764	0.1487	0.1536	0.1699	0.1678	0.1768			0.16	12	TM	
4	TM**	Chloromethane	0.4270	0.3901	0.3375	0.3810	0.3605	0.3412	0.3544	0.3743			0.37	7.9	TM**	
5	TM*	Vinyl chloride	0.4115	0.3788	0.3518	0.3710	0.3745	0.3550	0.3692	0.3800			0.37	4.9	TM*	
6	TM	Bromomethane	0.3089	0.2815	0.2471	0.2237	0.2041	0.2106	0.2630	0.2640			0.25	14	TM	
7	TML	Chloroethane	0.0054	0.2878	0.2243	0.2435	0.2429	0.2270	0.2348	0.2416			0.21	40	TML	1.000
8	TM	Dichlorofluoromethane	0.6890	0.6093	0.5890	0.5906	0.5798	0.5729	0.5688	0.6015			0.60	6.4	TM	
9	TM	Trichlorofluoromethane	0.4430	0.4679	0.4755	0.4490	0.4894	0.4663	0.4781	0.4982			0.47	4.0	TM	
10	TM	Acrolein	0.0052	0.0052	0.0049	0.0051	0.0055	0.0058	0.0066				0.01	11	TM	
11	TML	Acetone		0.2401	0.1742	0.0732	0.0670	0.0625					0.12	65	TML	0.999
12	TM	Freon-113	0.1916	0.2103	0.2461	0.2296	0.2342	0.2424	0.2401	0.2506			0.23	8.7	TM	
13	TM*	1,1-DCE	0.2338	0.2145	0.2031	0.2014	0.2069	0.2126	0.2037	0.2161			0.21	5.0	TM*	
14	TM	t-Butanol	0.0073	0.0074	0.0067	0.0066	0.0068	0.0067	0.0073	0.0072			0.01	4.8	TM	
15	TML	Methyl Acetate	0.7352	0.3947	0.3006	0.2201	0.2084	0.1849	0.1870	0.1948			0.30	62	TML	0.999
16	TML	Iodomethane	0.1827	0.1743	0.1793	0.2940	0.3436	0.3744	0.3864	0.4188			0.29	35	TML	0.999
17	TM	Acrylonitrile	0.0536	0.0778	0.0550	0.0708	0.0708	0.0686	0.0668	0.0699			0.07	12	TM	
18	TML	Methylene chloride	0.5250	0.4124	0.2936	0.2388	0.2241	0.2187	0.2143	0.2209			0.29	39	TML	1.000
19	TM	Carbon disulfide	0.3943	0.3722	0.3456	0.3750	0.3798	0.3853	0.3873	0.4143			0.38	5.1	TM	
20	TM	Methyl t-butyl ether (MtBE)	0.7991	0.8156	0.7192	0.7624	0.7320	0.7310	0.7337	0.7721			0.76	4.7	TM	
21	TM	Trans-1,2-DCE	0.1689	0.1958	0.1491	0.1616	0.1652	0.1626	0.1600	0.1680			0.17	8.0	TM	
22	TM	Diisopropyl Ether	0.1404	0.1141	0.0999	0.1097	0.1130	0.1112	0.1102	0.1178			0.11	10	TM	
23	TM**	1,1-DCA	0.4981	0.4815	0.4103	0.4513	0.4385	0.4319	0.4318	0.4565			0.45	6.4	TM**	
24	TM	Vinyl Acetate	0.2653	0.2929	0.2722	0.2761	0.2680	0.2709	0.2699	0.2924			0.28	3.9	TM	
25	TM	Ethyl tert Butyl Ether	0.8884	0.8558	0.7829	0.8326	0.8191	0.8045	0.8212	0.8765			0.84	4.3	TM	
26	TML	MEK (2-Butanone)	0.1689	0.1081	0.1488	0.1014	0.0864	0.0846	0.0862	0.0949			0.11	29	TML	0.998
27	TM	Cis-1,2-DCE	0.3414	0.2927	0.2695	0.3033	0.2847	0.2779	0.2795	0.2973			0.29	7.6	TM	
28	TM	2,2-Dichloropropane	0.4248	0.3897	0.3298	0.3728	0.3643	0.3569	0.3527	0.3780			0.37	7.6	TM	
29	TM*	Chloroform	0.6043	0.5811	0.5065	0.5367	0.5153	0.5089	0.5064	0.5399			0.54	6.9	TM*	
30	TM	Bromochloromethane	0.1551	0.1418	0.1296	0.1430	0.1345	0.1316	0.1311	0.1401			0.14	6.1	TM	
31	S	Dibromofluoromethane(S)	0.4413	0.3957	0.3535	0.3313	0.3345	0.3141	0.3299	0.3723			0.36	12	S	
32	TM	1,1,1-TCA	0.4351	0.3779	0.3827	0.3902	0.3755	0.3922	0.3874	0.4133			0.39	5.1	TM	
33	TM	Cyclohexane	0.2527	0.2073	0.2046	0.1837	0.1852	0.1874	0.1893	0.2022			0.20	11	TM	
34	TM	1,1-Dichloropropene	0.2669	0.2380	0.2400	0.2568	0.2511	0.2530	0.2582	0.2693			0.25	4.4	TM	
35	TM	2,2,4-Trimethylpentane	0.6612	0.6493	0.7517	0.7184	0.7320	0.7535	0.7725	0.8292			0.73	8.0	TM	

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66826
Case No: Initial Cal. Date: 01/31/12
Matrix: Water Instrument: Thor Initials:

		Compound	0.3	0.5	1	5	10	20	40	100			Avg	%RSD		r2
36	S	1,2-DCA-D4(S)	0.4858	0.4406	0.3876	0.3585	0.3714	0.3356	0.3514				0.39	14	S	
37	TM	Carbon Tetrachloride	0.2631	0.2882	0.2974	0.2901	0.2846	0.2998	0.3052	0.3281			0.29	6.3	TM	
38	TM	Tert Amyl Methyl Ether	0.8742	0.8060	0.7428	0.7767	0.7602	0.7564	0.7707	0.8276			0.79	5.6	TM	
39	TM	1,2-DCA	0.3652	0.4055	0.3342	0.3648	0.3649	0.3507	0.3422	0.3635			0.36	5.9	TM	
40	TM	Benzene	1.081	1.033	0.9242	0.9654	0.9485	0.9278	0.9232	0.9768			0.97	5.9	TM	
41	TM	TCE	0.2928	0.2664	0.2762	0.2883	0.2724	0.2673	0.2636	0.2808			0.28	3.9	TM	
42	TM	2-Pentanone	0.1657	0.1804	0.1635	0.1662	0.1735	0.1683	0.1774	0.1931			0.17	5.7	TM	
43	TM*	1,2-Dichloropropane	0.3468	0.3396	0.3236	0.3248	0.3266	0.3080	0.3067	0.3284			0.33	4.2	TM*	
44	TM	Bromodichloromethane	0.4441	0.4366	0.3920	0.4114	0.3978	0.4014	0.4088	0.4375			0.42	4.9	TM	
45	TM	Methyl Cyclohexane	0.3335	0.3521	0.3728	0.3691	0.3727	0.3852	0.3869	0.4173			0.37	6.6	TM	
46	TM	Dibromomethane	0.2007	0.1873	0.1659	0.1763	0.1711	0.1631	0.1642	0.1736			0.18	7.4	TM	
47	TM	2-Chloroethyl vinyl ether													TM	
48	TM	MIBK (methyl isobutyl ketone	0.1022	0.0948	0.0856	0.0813	0.0822	0.0806	0.0852	0.1008			0.09	10.0	TM	
49	TM	1-Bromo-2-chloroethane	0.2815	0.2567	0.2332	0.2333	0.2353	0.2311	0.2269	0.2416			0.24	7.5	TM	
50	TM	Cis-1,3-Dichloropropene	0.4678	0.4181	0.3954	0.4329	0.4271	0.4247	0.4312	0.4675			0.43	5.6	TM	
51	TM*	Toluene	1.278	1.324	1.169	1.222	1.210	1.191	1.196	1.294			1.2	4.5	TM*	
52	TM	Trans-1,3-Dichloropropene	0.3528	0.3544	0.3513	0.3657	0.3738	0.3757	0.3892	0.4268			0.37	6.7	TM	
53	TM	1,1,2-TCA	0.2472	0.2335	0.2331	0.2427	0.2359	0.2336	0.2354	0.2529			0.24	3.1	TM	
54	TML	2-Hexanone	0.3599	0.1769	0.1864	0.1449	0.1365	0.1311	0.1358	0.1585			0.18	42	TML	0.996
55	I	Chlorobenzene-D5 (IS)														
56	S	Toluene-D8(S)		1.867	1.561	1.509	1.550	1.459	1.494	1.594			1.6	8.6	S	
57	TM	1,2-EDB	0.3690	0.3427	0.3110	0.3248	0.3224	0.3138	0.3187	0.3209			0.33	5.8	TM	
58	TM	Tetrachloroethene	0.3875	0.4226	0.3793	0.3992	0.3878	0.3774	0.3767	0.3764			0.39	4.1	TM	
59	TML	1-Chlorohexane	0.8476	0.6363	0.5315	0.5050	0.5015	0.5153	0.5193	0.5386			0.57	21	TML	1.000
60	TM	1,1,1,2-Tetrachloroethane	0.4239	0.4285	0.3659	0.4122	0.4040	0.4059	0.4134	0.4422			0.41	5.5	TM	
61	TM	m&p-Xylene	0.7870	0.7250	0.6351	0.7059	0.7136	0.7187	0.7297	0.7602			0.72	6.1	TM	
62	TM	o-Xylene	0.6805	0.7642	0.6644	0.7317	0.7212	0.7236	0.7330	0.7712			0.72	5.1	TM	
63	TM	Styrene	1.189	1.178	1.105	1.188	1.230	1.250	1.299	1.392			1.2	7.1	TM	
64	S	4-Bromofluorobenzene(S)		0.7249	0.5812	0.5598	0.5771	0.5485	0.5721				0.59	11	S	
65	TM	1,3-Dichloropropane	0.6067	0.5735	0.5317	0.5788	0.5675	0.5459	0.5498	0.5517			0.56	4.2	TM	
66	TM	Dibromochloromethane	0.3972	0.4096	0.3471	0.3712	0.3826	0.3797	0.3970	0.4159			0.39	5.7	TM	
67	TM**	Chlorobenzene	1.378	1.160	1.072	1.171	1.138	1.124	1.128	1.167			1.2	7.8	TM**	
68	TM*	Ethylbenzene	2.060	1.993	1.723	1.874	1.867	1.870	1.876	1.945			1.9	5.3	TM*	
69	TM**	Bromoform	0.2569	0.2033	0.2070	0.2399	0.2472	0.2456	0.2593	0.2844			0.24	11	TM**	
70	I	1,4-Dichlorobenzene-D (IS)														

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66826
Case No: Initial Cal. Date: 01/31/12
Matrix: Water Instrument: Thor
Initials:

		Compound	0.3	0.5	1	5	10	20	40	100			Avg	%RSD		r2
71	TM	Isopropylbenzene	3.958	3.490	3.230	3.512	3.348	3.255	3.194	3.312			3.4	7.3	TM	
72	TM**	1,1,2,2-Tetrachloroethane	0.7485	0.7185	0.7445	0.7686	0.7451	0.7176	0.7073	0.7255			0.73	2.8	TM**	
73	TM	1,2,3-Trichloropropane	0.2972	0.2098	0.2169	0.2460	0.2278	0.2161	0.2078	0.2112			0.23	13	TM	
74	TM	t-1,4-Dichloro-2-Butene	0.2166	0.1590	0.1702	0.1647	0.1552	0.1513	0.1554	0.1605			0.17	13	TM	
75	TM	Bromobenzene	1.170	1.193	1.056	1.048	0.9857	0.9432	0.9215	0.9472			1.0	10	TM	
76	TM	n-Propylbenzene	4.471	4.235	4.124	4.259	4.157	4.117	4.027	4.186			4.2	3.2	TM	
77	TM	4-Ethyltoluene	2.494	2.422	2.314	2.481	2.421	2.420	2.378	2.465			2.4	2.4	TM	
78	TM	2-Chlorotoluene	3.134	2.891	2.647	2.886	2.816	2.742	2.670	2.743			2.8	5.6	TM	
79	TM	1,3,5-Trimethylbenzene	3.380	2.861	2.842	3.048	3.022	2.972	2.929	3.069			3.0	5.6	TM	
80	TM	4-Chlorotoluene	2.835	2.942	2.779	3.004	2.882	2.830	2.768	2.891			2.9	2.8	TM	
81	TM	Tert-Butylbenzene	3.344	3.223	2.683	2.848	2.649	2.647	2.597	2.710			2.8	10	TM	
82	TM	1,2,4-Trimethylbenzene	3.249	2.928	2.807	3.087	2.979	2.995	2.956	3.109			3.0	4.4	TM	
83	TM	Sec-Butylbenzene	3.962	3.760	3.649	3.877	3.868	3.793	3.742	3.946			3.8	2.8	TM	
84	TM	p-Isopropyltoluene	3.460	3.249	3.022	3.215	3.214	3.199	3.201	3.379			3.2	4.0	TM	
85	TM	Benzyl Chloride	0.8433	0.8167	0.7254	0.8258	0.8734	0.9024	0.9721	1.140			0.89	14	TM	
86	TM	1,3-DCB	2.136	1.912	1.798	1.918	1.860	1.790	1.763	1.850			1.9	6.3	TM	
87	TM	1,4-DCB	2.004	2.097	1.820	1.940	1.847	1.800	1.780	1.864			1.9	5.8	TM	
88	TM	n-Butylbenzene	2.793	2.514	2.472	2.759	2.788	2.825	2.847	3.080			2.8	7.0	TM	
89	TM	1,2-DCB	1.904	1.825	1.731	1.868	1.742	1.678	1.658	1.748			1.8	5.0	TM	
90	TM	Hexachloroethane	0.5443	0.4990	0.5139	0.5277	0.5087	0.4836	0.5057	0.5650			0.52	5.0	TM	
91	TM	1,2-Dibromo-3-chloropropane	0.1220	0.1125	0.0927	0.0866	0.0809	0.0832	0.0877	0.0980			0.10	15	TM	
92	TM	1,2,4-Trichlorobenzene	0.7930	0.6809	0.6079	0.6892	0.6781	0.6834	0.7204	0.8186			0.71	9.6	TM	
93	TM	Hexachlorobutadiene	0.7059	0.7687	0.6453	0.6666	0.6342	0.6176	0.6125	0.6572			0.66	7.8	TM	
94	TM	Naphthalene	1.857	1.530	1.459	1.664	1.745	1.845	2.030	2.266			1.8	15	TM	
95	TM	1,2,3-Trichlorobenzene	0.9654	0.8415	0.7969	0.9309	0.9537	0.9607	1.041	1.138			0.95	11	TM	
96																
97																
98																
99																
100																
101																
102																
103																
104																
105																

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T04W.D Vial: 4
Acq On : 31 Jan 12 11:46 Operator:
Sample : 0.3ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.74	96	674432	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	9.89	117	525120	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	269760	25.00000 ppb		0.00
System Monitoring Compounds						
31) Dibromofluoromethane(S)	5.96	111	7143	0.73742 ppb		-0.01
Spiked Amount 32.661			Recovery =	2.257%		
36) 1,2-DCA-D4(S)	6.33	65	7863	0.74710 ppb		-0.02
Spiked Amount 30.896			Recovery =	2.418%		
56) Toluene-D8(S)	8.44	98	28494	0.86066 ppb		0.00
Spiked Amount 33.937			Recovery =	2.537%		
64) 4-Bromofluorobenzene(S)	11.06	95	11780	0.94425 ppb		0.00
Spiked Amount 33.154			Recovery =	2.847%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.27	85	2063	0.27559 ppb		89
3) Freon 114	1.39	85	978	0.22971 ppb	#	69
4) Chloromethane	1.43	50	3456	0.34554 ppb		90
5) Vinyl chloride	1.53	62	3330	0.33008 ppb		95
6) Bromomethane	1.85	94	2500	0.37015 ppb		98
7) Chloroethane	1.99	64	44	0.28608 ppb	#	45
8) Dichlorofluoromethane	2.16	67	5576	0.34443 ppb		95
9) Trichlorofluoromethane	2.22	101	3585	0.28219 ppb		99
10) Acrolein	2.69	55	2089	14.12018 ppb		79
11) Acetone	2.89	43	3158	0.35449 ppb		84
12) Freon-113	2.84	101	1551	0.24931 ppb		89
13) 1,1-DCE	2.81	61	1892	0.33160 ppb	#	76
14) t-Butanol	3.71	59	2941	15.58401 ppb	#	90
15) Methyl Acetate	3.35	43	5950	0.83139 ppb		86
16) Iodomethane	2.96	142	1479	1.36957 ppb	#	75
17) Acrylonitrile	3.83	52	434	0.24136 ppb	#	61
18) Methylene chloride	3.44	84	4249	0.52590 ppb		94
19) Carbon disulfide	3.04	76	3191	0.30987 ppb	#	69
20) Methyl t-butyl ether (MtBE	3.91	73	6467	0.31620 ppb		91
21) Trans-1,2-DCE	3.86	96	1367	0.30456 ppb		90
22) Diisopropyl Ether	4.70	59	1136	0.36768 ppb	#	82
23) 1,1-DCA	4.51	63	4031	0.33206 ppb		94
24) Vinyl Acetate	4.72	87	2147	0.28838 ppb		68
25) Ethyl tert Butyl Ether	5.22	59	7190	0.31914 ppb		97
26) MEK (2-Butanone)	5.42	43	1367	1.03125 ppb	#	50
27) Cis-1,2-DCE	5.33	96	2763	0.34920 ppb		94
28) 2,2-Dichloropropane	5.33	77	3438	0.34339 ppb		89
29) Chloroform	5.77	83	4891	0.33736 ppb		87
30) Bromochloromethane	5.63	128	1255	0.33625 ppb		73
32) 1,1,1-TCA	5.97	97	3521	0.33102 ppb		97
33) Cyclohexane	6.03	41	2045	0.37615 ppb		86
34) 1,1-Dichloropropene	6.18	75	2160	0.31501 ppb	#	76
35) 2,2,4-Trimethylpentane	6.55	57	5351	0.27043 ppb	#	71
37) Carbon Tetrachloride	6.17	117	2129	0.26792 ppb		97
38) Tert Amyl Methyl Ether	6.60	73	7075	0.33225 ppb		95
39) 1,2-DCA	6.43	62	2956	0.30321 ppb	#	80
40) Benzene	6.41	78	8750	0.33352 ppb		92
41) TCE	7.16	95	2370	0.31833 ppb		98
42) 2-Pentanone	7.38	43	67036	14.32059 ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T04W.D Vial: 4
Acq On : 31 Jan 12 11:46 Operator:
Sample : 0.3ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	1,2-Dichloropropane	7.39	63	2807	0.31959 ppb	#	85
44)	Bromodichloromethane	7.69	83	3594	0.32011 ppb	#	92
45)	Methyl Cyclohexane	7.37	83	2699	0.26772 ppb		97
46)	Dibromomethane	7.50	93	1624	0.34345 ppb	#	62
48)	MIBK (methyl isobutyl ket	9.20	43	827	0.34412 ppb	#	91
49)	1-Bromo-2-chloroethane	8.00	63	2278	0.34831 ppb		96
50)	Cis-1,3-Dichloropropene	8.16	75	3786	0.32405 ppb		91
51)	Toluene	8.51	91	10342	0.31030 ppb		97
52)	Trans-1,3-Dichloropropene	8.74	75	2855	0.28318 ppb	#	43
53)	1,1,2-TCA	8.92	83	2001	0.30997 ppb	#	74
54)	2-Hexanone	9.20	43	2913	1.77102 ppb	#	85
57)	1,2-EDB	9.41	107	2325	0.33756 ppb	#	80
58)	Tetrachloroethene	9.07	166	2442	0.29936 ppb		90
59)	1-Chlorohexane	9.92	91	5341	0.81330 ppb		96
60)	1,1,1,2-Tetrachloroethane	10.00	131	2671	0.30865 ppb		75
61)	m&p-Xylene	10.16	106	9919	0.65414 ppb		97
62)	o-Xylene	10.55	106	4288	0.28208 ppb		79
63)	Styrene	10.56	104	7492	0.29025 ppb		91
65)	1,3-Dichloropropane	9.08	76	3823	0.32316 ppb		96
66)	Dibromochloromethane	9.30	129	2503	0.30749 ppb		82
67)	Chlorobenzene	9.92	112	8684	0.35417 ppb		94
68)	Ethylbenzene	10.04	91	12979	0.32501 ppb		97
69)	Bromoform	10.73	173	1619	0.31725 ppb		97
71)	Isopropylbenzene	10.93	105	12814	0.34801 ppb	#	89
72)	1,1,2,2-Tetrachloroethane	11.21	83	2423	0.30574 ppb		94
73)	1,2,3-Trichloropropane	11.24	110	962	0.38916 ppb		78
74)	t-1,4-Dichloro-2-Butene	11.26	53	701	0.38994 ppb	#	27
75)	Bromobenzene	11.21	156	3786	0.33964 ppb		87
76)	n-Propylbenzene	11.33	91	14474	0.31960 ppb		96
77)	4-Ethyltoluene	11.45	105	8072	0.30859 ppb		90
78)	2-Chlorotoluene	11.41	91	10144	0.33383 ppb		93
79)	1,3,5-Trimethylbenzene	11.51	105	10942	0.33630 ppb		94
80)	4-Chlorotoluene	11.52	91	9176	0.29668 ppb		93
81)	Tert-Butylbenzene	11.84	119	10825	0.35353 ppb		98
82)	1,2,4-Trimethylbenzene	11.88	105	10519	0.32346 ppb		83
83)	Sec-Butylbenzene	12.05	105	12826	0.31079 ppb		89
84)	p-Isopropyltoluene	12.20	119	11202	0.32018 ppb		95
85)	Benzyl Chloride	12.37	91	2730	0.28510 ppb	#	91
86)	1,3-DCB	12.15	146	6915	0.34116 ppb		94
87)	1,4-DCB	12.24	146	6486	0.31739 ppb		98
88)	n-Butylbenzene	12.61	91	9040	0.30357 ppb		96
89)	1,2-DCB	12.61	146	6165	0.32295 ppb		99
90)	Hexachloroethane	12.87	117	1762	0.31494 ppb		95
91)	1,2-Dibromo-3-chloropropan	13.38	157	395	0.38348 ppb	#	47
92)	1,2,4-Trichlorobenzene	14.22	180	2567	0.33558 ppb		98
93)	Hexachlorobutadiene	14.40	225	2285	0.31917 ppb		90
94)	Naphthalene	14.45	128	6010	0.30953 ppb		97
95)	1,2,3-Trichlorobenzene	14.70	180	3125	0.30372 ppb		94

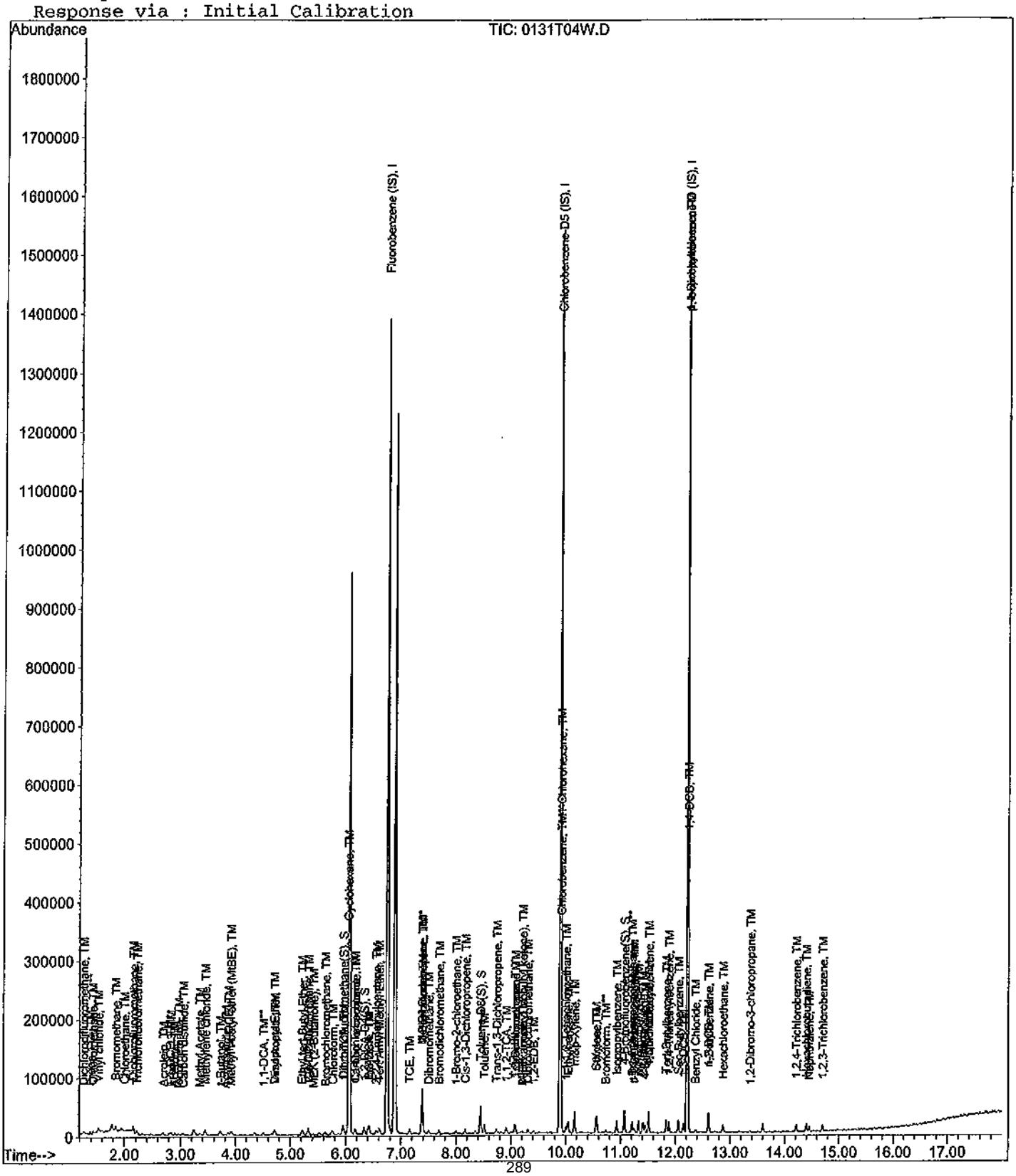
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T04W.D Vial: 4
Acq On : 31 Jan 12 11:46 Operator:
Sample : 0.3ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T05W.D Vial: 5
Acq On : 31 Jan 12 12:14 Operator:
Sample : 0.5ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.75	96	651584	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	9.89	117	515520	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	258112	25.00000 ppb		0.00
System Monitoring Compounds						
31) Dibromofluoromethane(S)	5.97	111	10312	1.10190 ppb		0.00
Spiked Amount 32.661			Recovery	= 3.374%		
36) 1,2-DCA-D4(S)	6.35	65	11483	1.12931 ppb		0.00
Spiked Amount 30.896			Recovery	= 3.654%		
56) Toluene-D8(S)	8.45	98	38494	1.18436 ppb		0.00
Spiked Amount 33.937			Recovery	= 3.489%		
64) 4-Bromofluorobenzene(S)	11.06	95	14949	1.22058 ppb		0.00
Spiked Amount 33.154			Recovery	= 3.683%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.30	85	3095	0.42794 ppb		99
3) Freon 114	1.42	85	1934	0.47018 ppb		86
4) Chloromethane	1.46	50	5084	0.52613 ppb		91
5) Vinyl chloride	1.57	62	4936	0.50643 ppb		96
6) Bromomethane	1.88	94	3669	0.56229 ppb		99
7) Chloroethane	1.99	64	3751	0.87592 ppb		96
8) Dichlorofluoromethane	2.20	67	7940	0.50766 ppb		94
9) Trichlorofluoromethane	2.26	101	6098	0.49683 ppb		87
10) Acrolein	2.73	55	3405	23.82246 ppb		84
11) Acetone	2.94	43	3129	0.40657 ppb		94
12) Freon-113	2.87	101	2740	0.45588 ppb		89
13) 1,1-DCE	2.84	61	2795	0.50704 ppb		94
14) t-Butanol	3.74	59	4821	26.44169 ppb		97
15) Methyl Acetate	3.38	43	5143	0.71090 ppb		92
16) Iodomethane	2.99	142	2272	1.44663 ppb	#	90
17) Acrylonitrile	3.85	52	1014	0.58369 ppb		72
18) Methylene chloride	3.47	84	5374	0.74781 ppb		82
19) Carbon disulfide	3.08	76	4850	0.48748 ppb	#	86
20) Methyl t-butyl ether (MtBE	3.95	73	10629	0.53791 ppb		93
21) Trans-1,2-DCE	3.89	96	2551	0.58827 ppb		79
22) Diisopropyl Ether	4.74	59	1487	0.49816 ppb		97
23) 1,1-DCA	4.54	63	6275	0.53504 ppb		96
24) Vinyl Acetate	4.74	87	3817	0.53067 ppb		88
25) Ethyl tert Butyl Ether	5.24	59	11153	0.51240 ppb	#	87
26) MEK (2-Butanone)	5.42	43	1409	1.06730 ppb		94
27) Cis-1,2-DCE	5.35	96	3815	0.49906 ppb		89
28) 2,2-Dichloropropane	5.34	77	5079	0.52508 ppb		91
29) Chloroform	5.78	83	7573	0.54068 ppb		97
30) Bromochloromethane	5.65	128	1848	0.51249 ppb		94
32) 1,1,1-TCA	5.98	97	4925	0.47925 ppb		98
33) Cyclohexane	6.05	41	2702	0.51443 ppb	#	1
34) 1,1-Dichloropropene	6.18	75	3102	0.46825 ppb		92
35) 2,2,4-Trimethylpentane	6.57	57	8461	0.44259 ppb	#	79
37) Carbon Tetrachloride	6.18	117	3756	0.48925 ppb		94
38) Tert Amyl Methyl Ether	6.62	73	10504	0.51058 ppb	#	92
39) 1,2-DCA	6.44	62	5284	0.56101 ppb		99
40) Benzene	6.42	78	13461	0.53108 ppb		97
41) TCE	7.16	95	3472	0.48270 ppb		98
42) 2-Pentanone	7.39	43	117557	25.99376 ppb		99

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T05W.D Vial: 5
Acq On : 31 Jan 12 12:14 Operator:
Sample : 0.5ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	1,2-Dichloropropane	7.40	63	4425	0.52148 ppb	#	89
44)	Bromodichloromethane	7.69	83	5689	0.52447 ppb		90
45)	Methyl Cyclohexane	7.38	83	4589	0.47115 ppb		96
46)	Dibromomethane	7.51	93	2441	0.53434 ppb		90
48)	MIBK (methyl isobutyl ket	9.20	43	1236	0.53234 ppb	#	97
49)	1-Bromo-2-chloroethane	8.00	63	3345	0.52939 ppb		99
50)	Cis-1,3-Dichloropropene	8.17	75	5448	0.48266 ppb		85
51)	Toluene	8.51	91	17252	0.53577 ppb		96
52)	Trans-1,3-Dichloropropene	8.74	75	4618	0.47411 ppb		89
53)	1,1,2-TCA	8.92	83	3043	0.48792 ppb		93
54)	2-Hexanone	9.20	43	2305	1.64646 ppb	#	97
57)	1,2-EDB	9.41	107	3533	0.52249 ppb		94
58)	Tetrachloroethene	9.07	166	4357	0.54407 ppb		93
59)	1-Chlorohexane	9.92	91	6561	0.93216 ppb		84
60)	1,1,1,2-Tetrachloroethane	10.01	131	4418	0.52003 ppb		98
61)	m&p-Xylene	10.16	106	14950	1.00428 ppb		96
62)	o-Xylene	10.56	106	7879	0.52796 ppb		87
63)	Styrene	10.57	104	12143	0.47919 ppb		97
65)	1,3-Dichloropropane	9.08	76	5913	0.50914 ppb	#	82
66)	Dibromochloromethane	9.31	129	4223	0.52845 ppb		100
67)	Chlorobenzene	9.92	112	11961	0.49691 ppb		95
68)	Ethylbenzene	10.04	91	20549	0.52416 ppb		99
69)	Bromoform	10.73	173	2096	0.41837 ppb		98
71)	Isopropylbenzene	10.93	105	18017	0.51139 ppb		94
72)	1,1,2,2-Tetrachloroethane	11.21	83	3709	0.48913 ppb		84
73)	1,2,3-Trichloropropane	11.24	110	1083	0.45788 ppb		75
74)	t-1,4-Dichloro-2-Butene	11.26	53	821	0.47730 ppb	#	60
75)	Bromobenzene	11.21	156	6158	0.57735 ppb		98
76)	n-Propylbenzene	11.33	91	21862	0.50452 ppb		99
77)	4-Ethyltoluene	11.45	105	12503	0.49955 ppb		98
78)	2-Chlorotoluene	11.41	91	14924	0.51330 ppb		99
79)	1,3,5-Trimethylbenzene	11.51	105	14770	0.47444 ppb		91
80)	4-Chlorotoluene	11.52	91	15185	0.51312 ppb		92
81)	Tert-Butylbenzene	11.84	119	16639	0.56793 ppb		94
82)	1,2,4-Trimethylbenzene	11.88	105	15113	0.48569 ppb		91
83)	Sec-Butylbenzene	12.05	105	19408	0.49151 ppb		96
84)	p-Isopropyltoluene	12.20	119	16772	0.50101 ppb		97
85)	Benzyl Chloride	12.37	91	4216	0.46016 ppb		98
86)	1,3-DCB	12.15	146	9871	0.50898 ppb		99
87)	1,4-DCB	12.24	146	10826	0.55367 ppb		96
88)	n-Butylbenzene	12.61	91	12979	0.45551 ppb		99
89)	1,2-DCB	12.61	146	9420	0.51573 ppb		93
90)	Hexachloroethane	12.87	117	2576	0.48122 ppb		95
91)	1,2-Dibromo-3-chloropropan	13.37	157	581	0.58951 ppb		88
92)	1,2,4-Trichlorobenzene	14.21	180	3515	0.48024 ppb		89
93)	Hexachlorobutadiene	14.40	225	3968	0.57926 ppb		87
94)	Naphthalene	14.45	128	7896	0.42501 ppb	#	82
95)	1,2,3-Trichlorobenzene	14.70	180	4344	0.44124 ppb	#	89

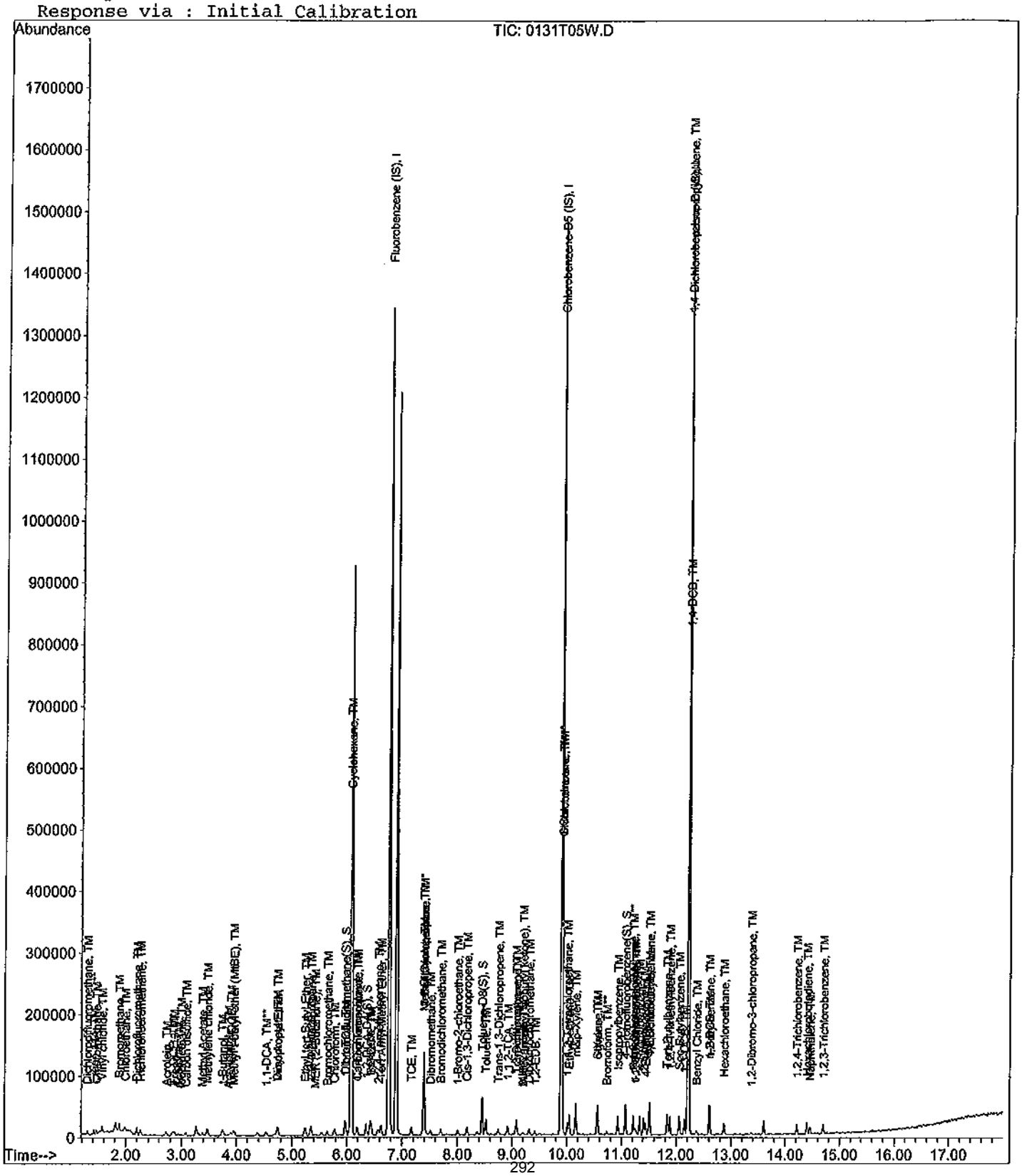
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T05W.D Vial: 5
Acq On : 31 Jan 12 12:14 Operator:
Sample : 0.5ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T06W.D Vial: 6
Acq On : 31 Jan 12 12:42 Operator:
Sample : 1.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.75	96	690752	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	9.89	117	558976	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	272256	25.00000 ppb		0.00
System Monitoring Compounds						
31) Dibromofluoromethane(S)	5.97	111	19536	1.96918 ppb		0.00
Spiked Amount 32.661			Recovery =	6.029%		
36) 1,2-DCA-D4(S)	6.35	65	21421	1.98722 ppb		0.00
Spiked Amount 30.896			Recovery =	6.431%		
56) Toluene-D8(S)	8.45	98	69787	1.98024 ppb		0.00
Spiked Amount 33.937			Recovery =	5.834%		
64) 4-Bromofluorobenzene(S)	11.06	95	25991	1.95717 ppb		0.00
Spiked Amount 33.154			Recovery =	5.903%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.30	85	7587	0.98957 ppb		98
3) Freon 114	1.42	85	4875	1.11798 ppb		100
4) Chloromethane	1.46	50	9325	0.91030 ppb		99
5) Vinyl chloride	1.57	62	9719	0.94061 ppb		97
6) Bromomethane	1.87	94	6826	0.98679 ppb		94
7) Chloroethane	1.98	64	6198	1.20922 ppb		90
8) Dichlorofluoromethane	2.19	67	16273	0.98144 ppb		99
9) Trichlorofluoromethane	2.25	101	13137	1.00964 ppb		98
10) Acrolein	2.72	55	6794	44.83770 ppb		88
11) Acetone	2.93	43	4814	1.34941 ppb	#	70
12) Freon-113	2.87	101	6799	1.06707 ppb		97
13) 1,1-DCE	2.83	61	5611	0.96017 ppb		95
14) t-Butanol	3.75	59	9193	47.56172 ppb		96
15) Methyl Acetate	3.38	43	8306	1.24667 ppb		100
16) Iodomethane	2.99	142	4953	1.66601 ppb		86
17) Acrylonitrile	3.84	52	1519	0.82481 ppb		96
18) Methylene chloride	3.47	84	8113	1.14636 ppb		84
19) Carbon disulfide	3.07	76	9549	0.90536 ppb		100
20) Methyl t-butyl ether (MtBE	3.95	73	19872	0.94866 ppb	#	94
21) Trans-1,2-DCE	3.89	96	4119	0.89600 ppb		93
22) Diisopropyl Ether	4.73	59	2759	0.87189 ppb	#	86
23) 1,1-DCA	4.54	63	11336	0.91176 ppb		95
24) Vinyl Acetate	4.73	87	7521	0.98634 ppb		94
25) Ethyl tert Butyl Ether	5.24	59	21631	0.93744 ppb		93
26) MEK (2-Butanone)	5.42	43	4110	2.07470 ppb		89
27) Cis-1,2-DCE	5.35	96	7447	0.91894 ppb		98
28) 2,2-Dichloropropane	5.34	77	9113	0.88870 ppb		93
29) Chloroform	5.78	83	13996	0.94259 ppb		99
30) Bromochloromethane	5.64	128	3581	0.93677 ppb		75
32) 1,1,1-TCA	5.97	97	10575	0.97070 ppb		88
33) Cyclohexane	6.05	41	5652	1.01506 ppb	#	53
34) 1,1-Dichloropropene	6.18	75	6632	0.94434 ppb	#	90
35) 2,2,4-Trimethylpentane	6.56	57	20770	1.02487 ppb		91
37) Carbon Tetrachloride	6.18	117	8216	1.00952 ppb	#	76
38) Tert Amyl Methyl Ether	6.61	73	20523	0.94103 ppb		96
39) 1,2-DCA	6.44	62	9235	0.92489 ppb		98
40) Benzene	6.42	78	25536	0.95034 ppb		98
41) TCE	7.17	95	7632	1.00089 ppb		96
42) 2-Pentanone	7.39	43	225938	47.12573 ppb		99

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T06W.D Vial: 6
Acq On : 31 Jan 12 12:42 Operator:
Sample : 1.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	1,2-Dichloropropane	7.39	63	8941	0.99393 ppb		98
44)	Bromodichloromethane	7.69	83	10831	0.94189 ppb		99
45)	Methyl Cyclohexane	7.38	83	10300	0.99753 ppb		94
46)	Dibromomethane	7.51	93	4584	0.94655 ppb		88
48)	MIBK (methyl isobutyl ket	9.20	43	2364	0.96044 ppb		98
49)	1-Bromo-2-chloroethane	8.00	63	6442	0.96172 ppb		96
50)	Cis-1,3-Dichloropropene	8.17	75	10925	0.91300 ppb		99
51)	Toluene	8.51	91	32307	0.94643 ppb		96
52)	Trans-1,3-Dichloropropene	8.74	75	9707	0.94007 ppb		98
53)	1,1,2-TCA	8.92	83	6441	0.97419 ppb		91
54)	2-Hexanone	9.20	43	5149	2.27058 ppb	#	95
57)	1,2-EDB	9.41	107	6954	0.94847 ppb		88
58)	Tetrachloroethene	9.07	166	8480	0.97659 ppb		90
59)	1-Chlorohexane	9.92	91	11883	1.32891 ppb		89
60)	1,1,1,2-Tetrachloroethane	10.01	131	8182	0.88821 ppb		97
61)	m&p-Xylene	10.16	106	28402	1.75960 ppb		93
62)	o-Xylene	10.55	106	14855	0.91802 ppb		93
63)	Styrene	10.56	104	24712	0.89938 ppb	#	96
65)	1,3-Dichloropropane	9.08	76	11888	0.94403 ppb		91
66)	Dibromochloromethane	9.31	129	7760	0.89557 ppb		98
67)	Chlorobenzene	9.92	112	23972	0.91847 ppb		98
68)	Ethylbenzene	10.04	91	38530	0.90641 ppb		95
69)	Bromoform	10.73	173	4629	0.85213 ppb		94
71)	Isopropylbenzene	10.93	105	35174	0.94651 ppb		94
72)	1,1,2,2-Tetrachloroethane	11.21	83	8108	1.01371 ppb		88
73)	1,2,3-Trichloropropane	11.25	110	2362	0.94675 ppb		83
74)	t-1,4-Dichloro-2-Butene	11.27	53	1853	1.02131 ppb	#	74
75)	Bromobenzene	11.21	156	11505	1.02263 ppb		99
76)	n-Propylbenzene	11.33	91	44916	0.98270 ppb		98
77)	4-Ethyltoluene	11.45	105	25197	0.95444 ppb		98
78)	2-Chlorotoluene	11.41	91	28824	0.93989 ppb		98
79)	1,3,5-Trimethylbenzene	11.51	105	30947	0.94243 ppb		98
80)	4-Chlorotoluene	11.52	91	30269	0.96970 ppb		97
81)	Tert-Butylbenzene	11.84	119	29220	0.94553 ppb		97
82)	1,2,4-Trimethylbenzene	11.88	105	30569	0.93137 ppb		99
83)	Sec-Butylbenzene	12.05	105	39743	0.95421 ppb		98
84)	p-Isopropyltoluene	12.20	119	32911	0.93204 ppb		98
85)	Benzyl Chloride	12.37	91	7900	0.81746 ppb		89
86)	1,3-DCB	12.15	146	19578	0.95705 ppb		98
87)	1,4-DCB	12.24	146	19821	0.96104 ppb		96
88)	n-Butylbenzene	12.61	91	26923	0.89580 ppb		97
89)	1,2-DCB	12.61	146	18856	0.97870 ppb		97
90)	Hexachloroethane	12.87	117	5597	0.99124 ppb		96
91)	1,2-Dibromo-3-chloropropan	13.38	157	1010	0.97155 ppb	#	77
92)	1,2,4-Trichlorobenzene	14.21	180	6620	0.85748 ppb		95
93)	Hexachlorobutadiene	14.40	225	7027	0.97253 ppb		87
94)	Naphthalene	14.45	128	15889	0.81082 ppb		99
95)	1,2,3-Trichlorobenzene	14.70	180	8678	0.83568 ppb		96

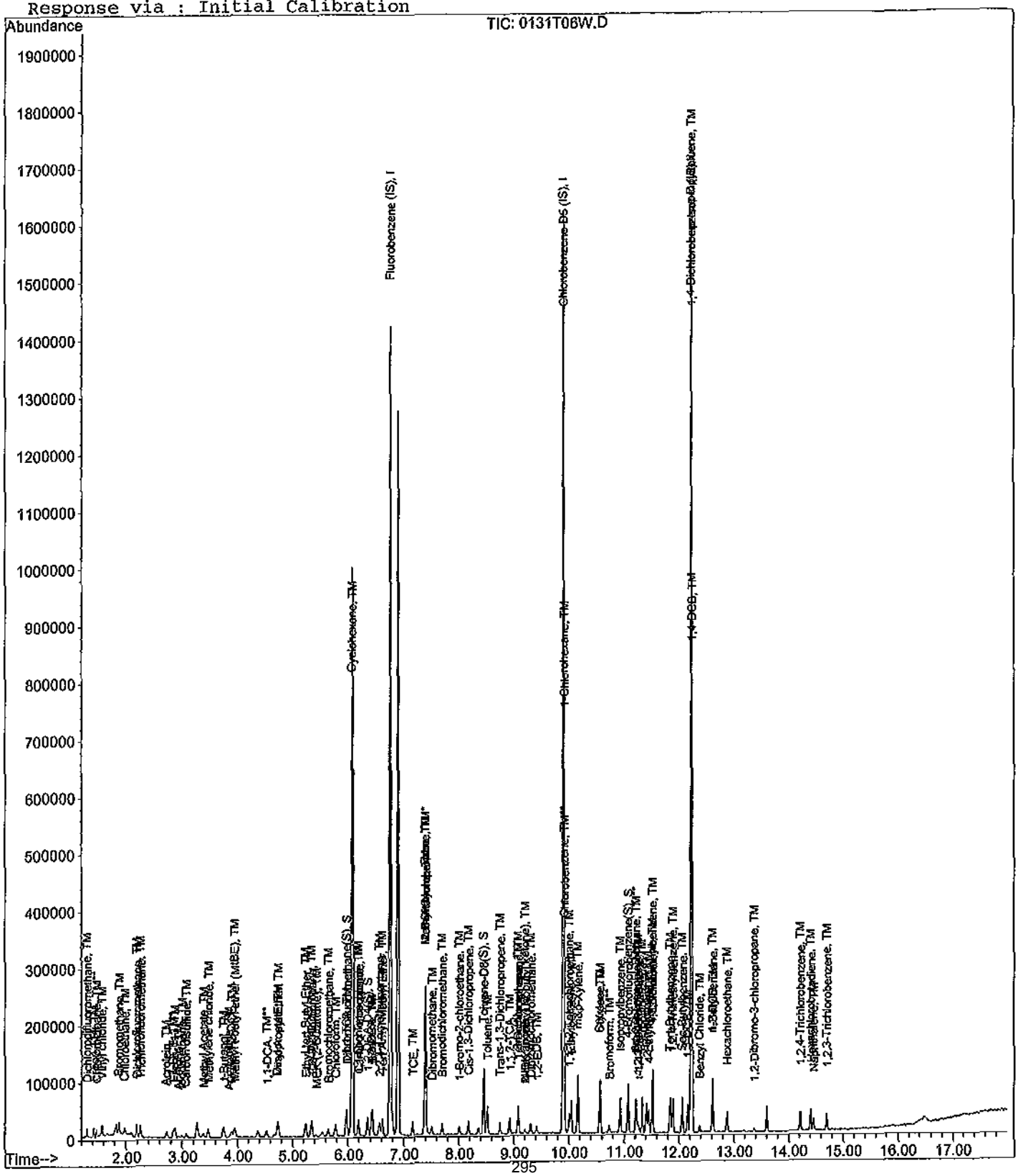
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T06W.D Vial: 6
Acq On : 31 Jan 12 12:42 Operator:
Sample : 1.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T07W.D Vial: 7
Acq On : 31 Jan 12 13:10 Operator:
Sample : 5.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	690944	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	553856	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	287424	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.97	111	91555	9.22593 ppb	0.00
Spiked Amount 32.661			Recovery	= 28.248%	
36) 1,2-DCA-D4(S)	6.35	65	99075	9.18859 ppb	0.00
Spiked Amount 30.896			Recovery	= 29.742%	
56) Toluene-D8(S)	8.45	98	334365	9.57548 ppb	0.00
Spiked Amount 33.937			Recovery	= 28.214%	
64) 4-Bromofluorobenzene(S)	11.06	95	124026	9.42572 ppb	0.00
Spiked Amount 33.154			Recovery	= 28.431%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.30	85	34172	4.45579 ppb	100
3) Freon 114	1.42	85	20545	4.71024 ppb	90
4) Chloromethane	1.46	50	52650	5.13823 ppb	100
5) Vinyl chloride	1.57	62	51267	4.96029 ppb	97
6) Bromomethane	1.87	94	30916	4.46808 ppb	100
7) Chloroethane	1.98	64	33651	5.32665 ppb	94
8) Dichlorofluoromethane	2.20	67	81610	4.92061 ppb	97
9) Trichlorofluoromethane	2.26	101	62047	4.76729 ppb	98
10) Acrolein	2.72	55	14199	93.68172 ppb	91
11) Acetone	2.93	43	10121	4.69030 ppb	90
12) Freon-113	2.87	101	31726	4.97785 ppb	98
13) 1,1-DCE	2.84	61	27833	4.76155 ppb	96
14) t-Butanol	3.74	59	18176	94.01084 ppb	94
15) Methyl Acetate	3.38	43	30409	5.39465 ppb	94
16) Iodomethane	3.00	142	40633	4.74128 ppb	96
17) Acrylonitrile	3.85	52	9788	5.31334 ppb	99
18) Methylene chloride	3.47	84	32998	5.25001 ppb	100
19) Carbon disulfide	3.08	76	51826	4.91239 ppb	99
20) Methyl t-butyl ether (MtBE	3.95	73	105358	5.02824 ppb	96
21) Trans-1,2-DCE	3.89	96	22327	4.85539 ppb	80
22) Diisopropyl Ether	4.74	59	15157	4.78851 ppb	100
23) 1,1-DCA	4.54	63	62361	5.01435 ppb	99
24) Vinyl Acetate	4.74	87	38157	5.00268 ppb	95
25) Ethyl tert Butyl Ether	5.24	59	115054	4.98479 ppb	99
26) MEK (2-Butanone)	5.41	43	14011	5.88553 ppb	90
27) Cis-1,2-DCE	5.35	96	41915	5.17076 ppb	97
28) 2,2-Dichloropropane	5.34	77	51515	5.02233 ppb	99
29) Chloroform	5.78	83	74161	4.99313 ppb	99
30) Bromochloromethane	5.65	128	19762	5.16820 ppb	100
32) 1,1,1-TCA	5.98	97	53917	4.94779 ppb	98
33) Cyclohexane	6.05	41	25379	4.55662 ppb	91
34) 1,1-Dichloropropene	6.19	75	35492	5.05235 ppb	97
35) 2,2,4-Trimethylpentane	6.57	57	99275	4.89723 ppb	96
37) Carbon Tetrachloride	6.18	117	40092	4.92481 ppb	96
38) Tert Amyl Methyl Ether	6.62	73	107330	4.91996 ppb	98
39) 1,2-DCA	6.44	62	50409	5.04707 ppb	93
40) Benzene	6.42	78	133407	4.96346 ppb	98
41) TCE	7.16	95	39835	5.22264 ppb	95
42) 2-Pentanone	7.39	43	459321	95.77771 ppb	98

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T07W.D Vial: 7
Acq On : 31 Jan 12 13:10 Operator:
Sample : 5.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	1,2-Dichloropropane	7.39	63	44884	4.98816 ppb		98
44)	Bromodichloromethane	7.69	83	56851	4.94254 ppb		100
45)	Methyl Cyclohexane	7.38	83	51011	4.93891 ppb		96
46)	Dibromomethane	7.51	93	24369	5.03054 ppb		98
48)	MIBK (methyl isobutyl ket	9.20	43	11230	4.56121 ppb	#	87
49)	1-Bromo-2-chloroethane	8.00	63	32240	4.81175 ppb		94
50)	Cis-1,3-Dichloropropene	8.17	75	59821	4.99785 ppb		97
51)	Toluene	8.51	91	168899	4.94648 ppb		99
52)	Trans-1,3-Dichloropropene	8.74	75	50533	4.89248 ppb		98
53)	1,1,2-TCA	8.92	83	33532	5.07027 ppb		93
54)	2-Hexanone	9.20	43	20021	5.70009 ppb		88
57)	1,2-EDB	9.41	107	35976	4.95220 ppb		97
58)	Tetrachloroethene	9.07	166	44220	5.13964 ppb		96
59)	1-Chlorohexane	9.92	91	55934	5.03676 ppb		99
60)	1,1,1,2-Tetrachloroethane	10.01	131	45664	5.00295 ppb		97
61)	m&p-Xylene	10.16	106	156386	9.77823 ppb		98
62)	o-Xylene	10.55	106	81046	5.05484 ppb		98
63)	Styrene	10.56	104	131624	4.83468 ppb		93
65)	1,3-Dichloropropane	9.08	76	64118	5.13873 ppb		95
66)	Dibromochloromethane	9.31	129	41121	4.78959 ppb		99
67)	Chlorobenzene	9.92	112	129754	5.01738 ppb		98
68)	Ethylbenzene	10.04	91	207634	4.92968 ppb		97
69)	Bromoform	10.73	173	26579	4.93802 ppb		87
71)	Isopropylbenzene	10.93	105	201870	5.14550 ppb		98
72)	1,1,2,2-Tetrachloroethane	11.21	83	44183	5.23249 ppb		98
73)	1,2,3-Trichloropropane	11.24	110	14141	5.36895 ppb		98
74)	t-1,4-Dichloro-2-Butene	11.26	53	9466	4.94202 ppb		84
75)	Bromobenzene	11.21	156	60253	5.07302 ppb		100
76)	n-Propylbenzene	11.33	91	244824	5.07375 ppb		99
77)	4-Ethyltoluene	11.45	105	142613	5.11697 ppb		99
78)	2-Chlorotoluene	11.41	91	165882	5.12359 ppb		95
79)	1,3,5-Trimethylbenzene	11.51	105	175201	5.05385 ppb		98
80)	4-Chlorotoluene	11.52	91	172710	5.24095 ppb		98
81)	Tert-Butylbenzene	11.84	119	163714	5.01807 ppb		97
82)	1,2,4-Trimethylbenzene	11.88	105	177467	5.12171 ppb		98
83)	Sec-Butylbenzene	12.05	105	222863	5.06843 ppb		99
84)	p-Isopropyltoluene	12.20	119	184801	4.95738 ppb		99
85)	Benzyl Chloride	12.37	91	47472	4.65300 ppb		98
86)	1,3-DCB	12.15	146	110258	5.10544 ppb		95
87)	1,4-DCB	12.24	146	111493	5.12058 ppb		100
88)	n-Butylbenzene	12.61	91	158614	4.99902 ppb		99
89)	1,2-DCB	12.61	146	107364	5.27852 ppb		96
90)	Hexachloroethane	12.87	117	30335	5.08889 ppb		97
91)	1,2-Dibromo-3-chloropropan	13.38	157	4979	4.53672 ppb		91
92)	1,2,4-Trichlorobenzene	14.21	180	39616	4.86061 ppb		99
93)	Hexachlorobutadiene	14.40	225	38319	5.02342 ppb		96
94)	Naphthalene	14.45	128	95642	4.62306 ppb		99
95)	1,2,3-Trichlorobenzene	14.70	180	53515	4.88146 ppb		95

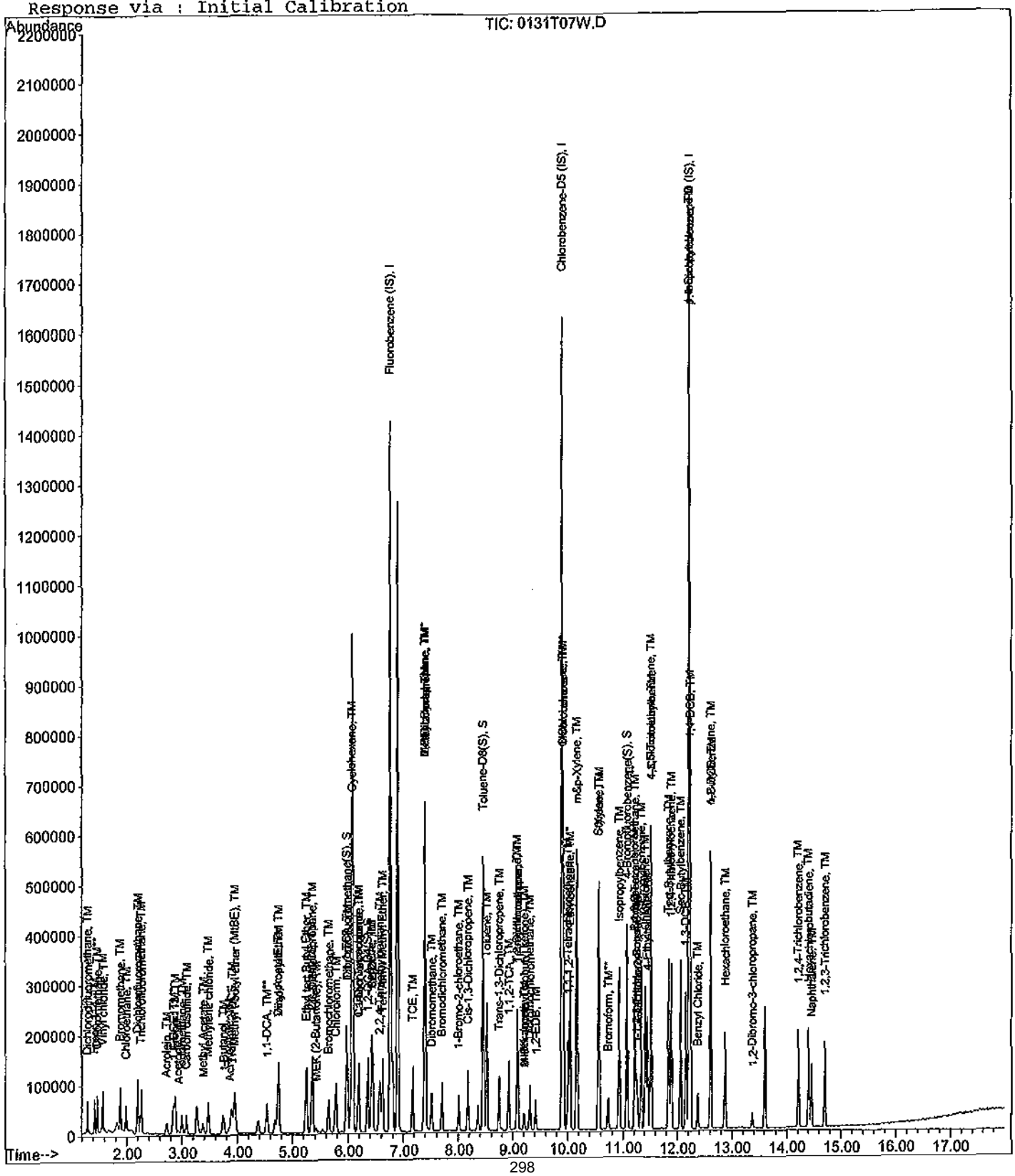
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T07W.D Vial: 7
Acq On : 31 Jan 12 13:10 Operator:
Sample : 5.0ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 8:59 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T08W.D Vial: 8
Acq On : 31 Jan 12 13:37 Operator:
Sample : 10ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	702464	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	558464	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	303936	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.97	111	234972	23.28965 ppb	0.00
Spiked Amount 32.661			Recovery = 71.308%		
36) 1,2-DCA-D4(S)	6.35	65	260929	23.80268 ppb	0.00
Spiked Amount 30.896			Recovery = 77.044%		
56) Toluene-D8(S)	8.45	98	865467	24.58056 ppb	0.00
Spiked Amount 33.937			Recovery = 72.431%		
64) 4-Bromofluorobenzene(S)	11.06	95	322262	24.28917 ppb	0.00
Spiked Amount 33.154			Recovery = 73.262%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.30	85	80498	10.32425 ppb	100
3) Freon 114	1.42	85	43171	9.73527 ppb	100
4) Chloromethane	1.47	50	101298	9.72377 ppb	100
5) Vinyl chloride	1.57	62	105243	10.01570 ppb	100
6) Bromomethane	1.87	94	57336	8.15050 ppb	100
7) Chloroethane	1.98	64	68255	10.34902 ppb	100
8) Dichlorofluoromethane	2.20	67	162909	9.66139 ppb	100
9) Trichlorofluoromethane	2.26	101	137505	10.39173 ppb	100
10) Acrolein	2.72	55	19210	124.66463 ppb	100
11) Acetone	2.93	43	18835	9.98287 ppb	100
12) Freon-113	2.87	101	65798	10.15449 ppb	100
13) 1,1-DCE	2.84	61	58140	9.78322 ppb	100
14) t-Butanol	3.75	59	23976	121.97621 ppb	100
15) Methyl Acetate	3.38	43	58544	10.49499 ppb	100
16) Iodomethane	3.00	142	96537	9.42339 ppb	100
17) Acrylonitrile	3.85	52	19888	10.61900 ppb	100
18) Methylene chloride	3.47	84	62980	10.02430 ppb	100
19) Carbon disulfide	3.08	76	106726	9.95025 ppb	100
20) Methyl t-butyl ether (MtBE	3.95	73	205683	9.65529 ppb	100
21) Trans-1,2-DCE	3.90	96	46421	9.92950 ppb	100
22) Diisopropyl Ether	4.74	59	31765	9.87086 ppb	100
23) 1,1-DCA	4.54	63	123216	9.74513 ppb	100
24) Vinyl Acetate	4.74	87	75318	9.71284 ppb	100
25) Ethyl tert Butyl Ether	5.24	59	230143	9.80758 ppb	100
26) MEK (2-Butanone)	5.41	43	24284	9.68670 ppb	100
27) Cis-1,2-DCE	5.35	96	79998	9.70695 ppb	100
28) 2,2-Dichloropropane	5.34	77	102372	9.81683 ppb	100
29) Chloroform	5.78	83	144800	9.58925 ppb	100
30) Bromochloromethane	5.65	128	37806	9.72497 ppb	100
32) 1,1,1-TCA	5.98	97	105504	9.52298 ppb	100
33) Cyclohexane	6.05	41	52032	9.18878 ppb	100
34) 1,1-Dichloropropene	6.19	75	70563	9.88004 ppb	100
35) 2,2,4-Trimethylpentane	6.57	57	205674	9.97950 ppb	100
37) Carbon Tetrachloride	6.19	117	79969	9.66212 ppb	100
38) Tert Amyl Methyl Ether	6.61	73	213618	9.63157 ppb	100
39) 1,2-DCA	6.44	62	102539	10.09810 ppb	100
40) Benzene	6.42	78	266514	9.75315 ppb	100
41) TCE	7.16	95	76531	9.86919 ppb	100
42) 2-Pentanone	7.39	43	609322	124.97231 ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T08W.D Vial: 8
Acq On : 31 Jan 12 13:37 Operator:
Sample : 10ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	1,2-Dichloropropane	7.39	63	91780	10.03265 ppb	100
44)	Bromodichloromethane	7.69	83	111774	9.55811 ppb	100
45)	Methyl Cyclohexane	7.38	83	104727	9.97343 ppb	100
46)	Dibromomethane	7.51	93	48068	9.76003 ppb	100
48)	MIBK (methyl isobutyl ket	9.20	43	23089	9.22411 ppb	100
49)	1-Bromo-2-chloroethane	8.01	63	66120	9.70642 ppb	100
50)	Cis-1,3-Dichloropropene	8.17	75	120006	9.86169 ppb	100
51)	Toluene	8.51	91	339852	9.78988 ppb	100
52)	Trans-1,3-Dichloropropene	8.74	75	105038	10.00275 ppb	100
53)	1,1,2-TCA	8.92	83	66286	9.85853 ppb	100
54)	2-Hexanone	9.20	43	38344	9.78079 ppb	100
57)	1,2-EDB	9.41	107	72030	9.83332 ppb	100
58)	Tetrachloroethene	9.07	166	86621	9.98479 ppb	100
59)	1-Chlorohexane	9.92	91	112028	9.66903 ppb	100
60)	1,1,1,2-Tetrachloroethane	10.00	131	90252	9.80642 ppb	100
61)	m&p-Xylene	10.16	106	318800	19.76890 ppb	100
62)	o-Xylene	10.55	106	161101	9.96496 ppb	100
63)	Styrene	10.57	104	274738	10.00814 ppb	100
65)	1,3-Dichloropropane	9.08	76	126766	10.07581 ppb	100
66)	Dibromochloromethane	9.31	129	85458	9.87163 ppb	100
67)	Chlorobenzene	9.92	112	254179	9.74760 ppb	100
68)	Ethylbenzene	10.04	91	417163	9.82262 ppb	100
69)	Bromoform	10.73	173	55211	10.17283 ppb	100
71)	Isopropylbenzene	10.93	105	407051	9.81172 ppb	100
72)	1,1,2,2-Tetrachloroethane	11.21	83	90586	10.14507 ppb	100
73)	1,2,3-Trichloropropane	11.24	110	27696	9.94413 ppb	100
74)	t-1,4-Dichloro-2-Butene	11.26	53	18866	9.31448 ppb	100
75)	Bromobenzene	11.21	156	119830	9.54101 ppb	100
76)	n-Propylbenzene	11.33	91	505368	9.90429 ppb	100
77)	4-Ethyltoluene	11.45	105	294314	9.98633 ppb	100
78)	2-Chlorotoluene	11.41	91	342296	9.99811 ppb	100
79)	1,3,5-Trimethylbenzene	11.51	105	367355	10.02103 ppb	100
80)	4-Chlorotoluene	11.52	91	350395	10.05521 ppb	100
81)	Tert-Butylbenzene	11.84	119	322083	9.33596 ppb	100
82)	1,2,4-Trimethylbenzene	11.88	105	362201	9.88526 ppb	100
83)	Sec-Butylbenzene	12.05	105	470262	10.11385 ppb	100
84)	p-Isopropyltoluene	12.20	119	390720	9.91185 ppb	100
85)	Benzyl Chloride	12.37	91	106182	9.84210 ppb	100
86)	1,3-DCB	12.15	146	226167	9.90359 ppb	100
87)	1,4-DCB	12.24	146	224511	9.75103 ppb	100
88)	n-Butylbenzene	12.61	91	338958	10.10254 ppb	100
89)	1,2-DCB	12.61	146	211730	9.84411 ppb	100
90)	Hexachloroethane	12.87	117	61845	9.81126 ppb	100
91)	1,2-Dibromo-3-chloropropan	13.37	157	9831	8.47107 ppb	100
92)	1,2,4-Trichlorobenzene	14.21	180	82440	9.56531 ppb	100
93)	Hexachlorobutadiene	14.40	225	77099	9.55818 ppb	100
94)	Naphthalene	14.45	128	212170	9.69852 ppb	100
95)	1,2,3-Trichlorobenzene	14.70	180	115943	10.00137 ppb	100

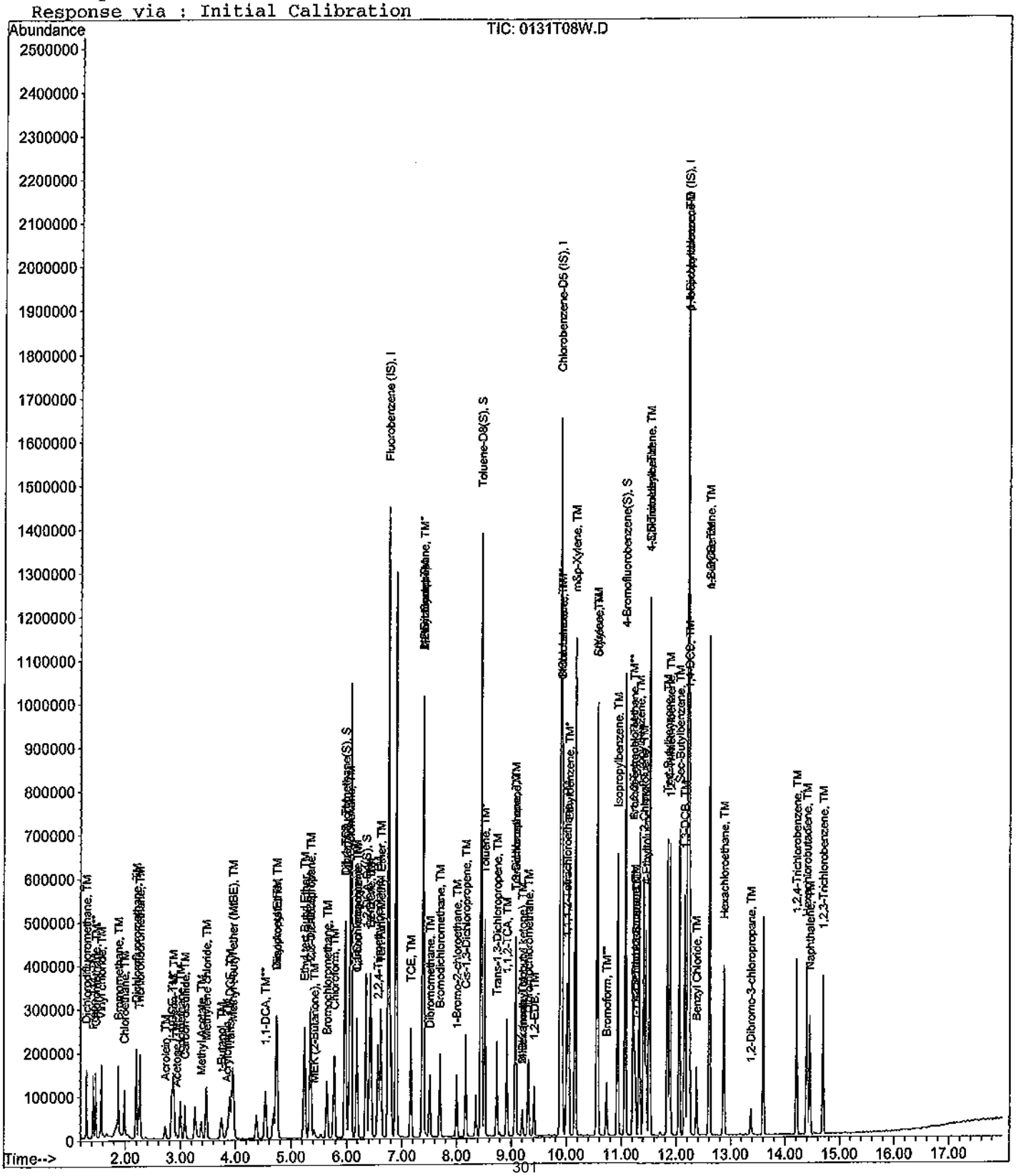
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T08W.D Vial: 8
Acq On : 31 Jan 12 13:37 Operator:
Sample : 10ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T09W.D Vial: 9
Acq On : 31 Jan 12 14:05 Operator:
Sample : 20ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	723968	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	585472	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	328256	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	363824	34.98992 ppb	0.00
Spiked Amount 32.661			Recovery	= 107.131%	
36) 1,2-DCA-D4(S)	6.35	65	388724	34.40722 ppb	0.00
Spiked Amount 30.896			Recovery	= 111.366%	
56) Toluene-D8(S)	8.45	98	1366328	37.01564 ppb	0.00
Spiked Amount 33.937			Recovery	= 109.073%	
64) 4-Bromofluorobenzene(S)	11.06	95	513810	36.93985 ppb	0.00
Spiked Amount 33.154			Recovery	= 111.420%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.30	85	168866	21.01455 ppb	99
3) Freon 114	1.42	85	98396	21.52970 ppb	100
4) Chloromethane	1.46	50	197601	18.40465 ppb	99
5) Vinyl chloride	1.57	62	205612	18.98634 ppb	99
6) Bromomethane	1.87	94	121977	16.82440 ppb	99
7) Chloroethane	1.98	64	131466	19.09849 ppb	96
8) Dichlorofluoromethane	2.19	67	331793	19.09266 ppb	99
9) Trichlorofluoromethane	2.25	101	270078	19.80448 ppb	100
10) Acrolein	2.72	55	25382	159.82563 ppb	76
11) Acetone	2.92	43	36198	20.07086 ppb	89
12) Freon-113	2.87	101	140413	21.02603 ppb	98
13) 1,1-DCE	2.83	61	123129	20.10352 ppb	98
14) t-Butanol	3.75	59	29152	143.90353 ppb	96
15) Methyl Acetate	3.37	43	107117	18.87457 ppb	91
16) Iodomethane	2.99	142	216832	19.07597 ppb	97
17) Acrylonitrile	3.84	52	39711	20.57349 ppb	93
18) Methylene chloride	3.47	84	126678	19.74670 ppb	100
19) Carbon disulfide	3.07	76	223175	20.18895 ppb	100
20) Methyl t-butyl ether (MtBE	3.95	73	423395	19.28490 ppb	97
21) Trans-1,2-DCE	3.89	96	94154	19.54142 ppb	96
22) Diisopropyl Ether	4.73	59	64383	19.41252 ppb	97
23) 1,1-DCA	4.53	63	250125	19.19474 ppb	99
24) Vinyl Acetate	4.74	87	156878	19.62972 ppb	97
25) Ethyl tert Butyl Ether	5.24	59	465967	19.26744 ppb	98
26) MEK (2-Butanone)	5.41	43	48984	18.48787 ppb	99
27) Cis-1,2-DCE	5.35	96	160976	18.95263 ppb	96
28) 2,2-Dichloropropane	5.34	77	206685	19.23109 ppb	97
29) Chloroform	5.78	83	294758	18.94028 ppb	100
30) Bromochloromethane	5.64	128	76221	19.02422 ppb	96
32) 1,1,1-TCA	5.98	97	227160	19.89485 ppb	99
33) Cyclohexane	6.05	41	108512	18.59386 ppb	97
34) 1,1-Dichloropropene	6.19	75	146535	19.90800 ppb	99
35) 2,2,4-Trimethylpentane	6.56	57	436405	20.54584 ppb	99
37) Carbon Tetrachloride	6.18	117	173615	20.35366 ppb	96
38) Tert Amyl Methyl Ether	6.61	73	438091	19.16585 ppb	99
39) 1,2-DCA	6.44	62	203094	19.40672 ppb	97
40) Benzene	6.42	78	537333	19.07977 ppb	99
41) TCE	7.16	95	154834	19.37382 ppb	98
42) 2-Pentanone	7.39	43	731254	145.52576 ppb	98

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T09W.D Vial: 9
Acq On : 31 Jan 12 14:05 Operator:
Sample : 20ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	1,2-Dichloropropane	7.39	63	178412	18.92328	ppb	98
44)	Bromodichloromethane	7.69	83	232470	19.28869	ppb	99
45)	Methyl Cyclohexane	7.37	83	223077	20.61320	ppb	97
46)	Dibromomethane	7.51	93	94471	18.61223	ppb	99
48)	MIBK (methyl isobutyl ket	9.20	43	46675	18.09290	ppb	92
49)	1-Bromo-2-chloroethane	8.00	63	133824	19.06185	ppb	99
50)	Cis-1,3-Dichloropropene	8.17	75	245997	19.61475	ppb	98
51)	Toluene	8.51	91	689835	19.28136	ppb	99
52)	Trans-1,3-Dichloropropene	8.74	75	217622	20.10854	ppb	98
53)	1,1,2-TCA	8.92	83	135278	19.52190	ppb	98
54)	2-Hexanone	9.20	43	75943	17.79813	ppb	93
57)	1,2-EDB	9.41	107	146992	19.14121	ppb	100
58)	Tetrachloroethene	9.07	166	176756	19.43476	ppb	99
59)	1-Chlorohexane	9.92	91	241347	19.51051	ppb	100
60)	1,1,1,2-Tetrachloroethane	10.01	131	190094	19.70204	ppb	97
61)	m&p-Xylene	10.16	106	673243	39.82219	ppb	99
62)	o-Xylene	10.55	106	338937	19.99794	ppb	99
63)	Styrene	10.56	104	585526	20.34557	ppb	94
65)	1,3-Dichloropropane	9.08	76	255704	19.38669	ppb	96
66)	Dibromochloromethane	9.31	129	177865	19.59818	ppb	99
67)	Chlorobenzene	9.92	112	526484	19.25894	ppb	99
68)	Ethylbenzene	10.04	91	876095	19.67714	ppb	99
69)	Bromoform	10.73	173	115017	20.21469	ppb	95
71)	Isopropylbenzene	10.93	105	854709	19.07586	ppb	100
72)	1,1,2,2-Tetrachloroethane	11.21	83	188444	19.54096	ppb	95
73)	1,2,3-Trichloropropane	11.24	110	56738	18.86224	ppb	95
74)	t-1,4-Dichloro-2-Butene	11.26	53	39745	18.16899	ppb	98
75)	Bromobenzene	11.21	156	247689	18.26017	ppb	99
76)	n-Propylbenzene	11.33	91	1081033	19.61662	ppb	99
77)	4-Ethyltoluene	11.45	105	635479	19.96483	ppb	98
78)	2-Chlorotoluene	11.41	91	720101	19.47507	ppb	98
79)	1,3,5-Trimethylbenzene	11.51	105	780550	19.71499	ppb	98
80)	4-Chlorotoluene	11.52	91	743251	19.74868	ppb	98
81)	Tert-Butylbenzene	11.84	119	695207	18.65843	ppb	99
82)	1,2,4-Trimethylbenzene	11.88	105	786409	19.87268	ppb	97
83)	Sec-Butylbenzene	12.05	105	996067	19.83510	ppb	100
84)	p-Isopropyltoluene	12.20	119	839992	19.73029	ppb	99
85)	Benzyl Chloride	12.37	91	236962	20.33691	ppb	99
86)	1,3-DCB	12.15	146	470189	19.06362	ppb	97
87)	1,4-DCB	12.24	146	472581	19.00459	ppb	99
88)	n-Butylbenzene	12.61	91	741825	20.47177	ppb	99
89)	1,2-DCB	12.61	146	440609	18.96780	ppb	97
90)	Hexachloroethane	12.87	117	126986	18.65286	ppb	96
91)	1,2-Dibromo-3-chloropropan	13.37	157	21848	17.43098	ppb	96
92)	1,2,4-Trichlorobenzene	14.21	180	179456	19.27918	ppb	98
93)	Hexachlorobutadiene	14.40	225	162188	18.61721	ppb	97
94)	Naphthalene	14.45	128	484573	20.50927	ppb	99
95)	1,2,3-Trichlorobenzene	14.70	180	252279	20.14955	ppb	99

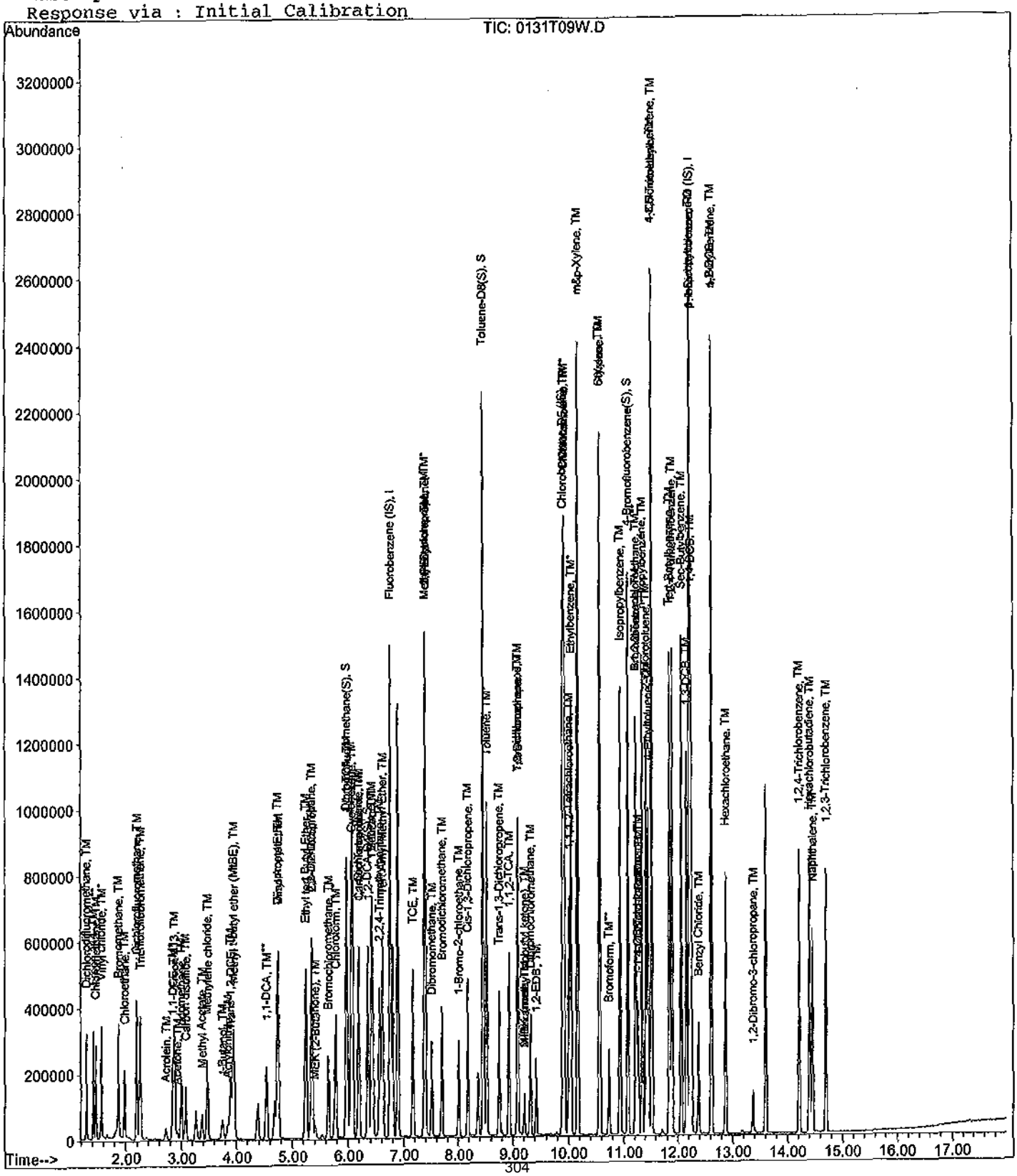
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T09W.D Vial: 9
Acq On : 31 Jan 12 14:05 Operator:
Sample : 20ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



304

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T10W.D Vial: 10
Acq On : 31 Jan 12 14:32 Operator:
Sample : 40ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	731648	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	596288	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	348480	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	772321	73.49649 ppb	0.00
Spiked Amount 32.661			Recovery = 225.026%		
36) 1,2-DCA-D4(S)	6.35	65	822772	72.06178 ppb	0.00
Spiked Amount 30.896			Recovery = 233.244%		
56) Toluene-D8(S)	8.45	98	2850702	75.82845 ppb	0.00
Spiked Amount 33.937			Recovery = 223.438%		
64) 4-Bromofluorobenzene(S)	11.06	95	1091603	77.05617 ppb	0.00
Spiked Amount 33.154			Recovery = 232.420%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.29	85	366232	45.09739 ppb	99
3) Freon 114	1.41	85	196474	42.53857 ppb	98
4) Chloromethane	1.46	50	414855	38.23418 ppb	98
5) Vinyl chloride	1.56	62	432186	39.48940 ppb	99
6) Bromomethane	1.86	94	307876	42.01986 ppb	98
7) Chloroethane	1.96	64	274886	39.21580 ppb	95
8) Dichlorofluoromethane	2.19	67	665874	37.91477 ppb	98
9) Trichlorofluoromethane	2.24	101	559660	40.60838 ppb	96
10) Acrolein	2.71	55	33967	211.63864 ppb	87
11) Acetone	2.92	43	71700	40.95388 ppb	91
12) Freon-113	2.86	101	281016	41.63880 ppb	99
13) 1,1-DCE	2.83	61	238448	38.52322 ppb	99
14) t-Butanol	3.75	59	37568	183.50097 ppb	98
15) Methyl Acetate	3.37	43	218942	38.49348 ppb	92
16) Iodomethane	2.99	142	452363	38.06058 ppb	99
17) Acrylonitrile	3.83	52	78122	40.04863 ppb	88
18) Methylene chloride	3.46	84	250857	38.87761 ppb	97
19) Carbon disulfide	3.06	76	453394	40.58460 ppb	99
20) Methyl t-butyl ether (MtBE	3.94	73	858890	38.71028 ppb	97
21) Trans-1,2-DCE	3.88	96	187302	38.46600 ppb	96
22) Diisopropyl Ether	4.73	59	128954	38.47359 ppb	96
23) 1,1-DCA	4.53	63	505516	38.38638 ppb	99
24) Vinyl Acetate	4.73	87	316007	39.12605 ppb	99
25) Ethyl tert Butyl Ether	5.23	59	961289	39.33146 ppb	99
26) MEK (2-Butanone)	5.41	43	100854	37.15490 ppb	99
27) Cis-1,2-DCE	5.34	96	327168	38.11503 ppb	96
28) 2,2-Dichloropropane	5.34	77	412923	38.01729 ppb	99
29) Chloroform	5.77	83	592812	37.69250 ppb	100
30) Bromochloromethane	5.64	128	153434	37.89405 ppb	98
32) 1,1,1-TCA	5.98	97	453500	39.30097 ppb	97
33) Cyclohexane	6.05	41	221548	37.56443 ppb	97
34) 1,1-Dichloropropene	6.18	75	302292	40.63780 ppb	99
35) 2,2,4-Trimethylpentane	6.56	57	904365	42.13036 ppb	100
37) Carbon Tetrachloride	6.18	117	357309	41.44923 ppb	99
38) Tert Amyl Methyl Ether	6.61	73	902161	39.05396 ppb	97
39) 1,2-DCA	6.43	62	400563	37.87417 ppb	100
40) Benzene	6.41	78	1080773	37.97356 ppb	98
41) TCE	7.16	95	308576	38.20571 ppb	98
42) 2-Pentanone	7.39	43	908474	178.89628 ppb	98

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T10W.D Vial: 10
Acq On : 31 Jan 12 14:32 Operator:
Sample : 40ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	1,2-Dichloropropane	7.39	63	359061	37.68406 ppb	98
44)	Bromodichloromethane	7.69	83	478560	39.29066 ppb	99
45)	Methyl Cyclohexane	7.37	83	452933	41.41348 ppb	99
46)	Dibromomethane	7.51	93	192180	37.46496 ppb	99
48)	MIBK (methyl isobutyl ket	9.20	43	99747	38.25965 ppb	92
49)	1-Bromo-2-chloroethane	8.00	63	265600	37.43487 ppb	99
50)	Cis-1,3-Dichloropropene	8.17	75	504742	39.82352 ppb	99
51)	Toluene	8.51	91	1399788	38.71434 ppb	99
52)	Trans-1,3-Dichloropropene	8.74	75	455647	41.66039 ppb	99
53)	1,1,2-TCA	8.92	83	275567	39.34951 ppb	99
54)	2-Hexanone	9.20	43	159010	35.71415 ppb	93
57)	1,2-EDB	9.41	107	304014	38.87044 ppb	99
58)	Tetrachloroethene	9.07	166	359421	38.80239 ppb	99
59)	1-Chlorohexane	9.92	91	495431	38.97862 ppb	100
60)	1,1,1,2-Tetrachloroethane	10.00	131	394365	40.13203 ppb	100
61)	m&p-Xylene	10.16	106	1392390	80.86567 ppb	99
62)	o-Xylene	10.55	106	699355	40.51484 ppb	100
63)	Styrene	10.56	104	1239060	42.27330 ppb	96
65)	1,3-Dichloropropane	9.08	76	524547	39.04817 ppb	97
66)	Dibromochloromethane	9.31	129	378765	40.97746 ppb	99
67)	Chlorobenzene	9.92	112	1076012	38.64687 ppb	99
68)	Ethylbenzene	10.04	91	1789567	39.46470 ppb	99
69)	Bromoform	10.73	173	247405	42.69368 ppb	98
71)	Isopropylbenzene	10.93	105	1781100	37.44459 ppb	98
72)	1,1,2,2-Tetrachloroethane	11.21	83	394371	38.52151 ppb	95
73)	1,2,3-Trichloropropane	11.24	110	115853	36.27951 ppb	97
74)	t-1,4-Dichloro-2-Butene	11.26	53	86656	37.31486 ppb	99
75)	Bromobenzene	11.21	156	513777	35.67859 ppb	98
76)	n-Propylbenzene	11.33	91	2245373	38.38031 ppb	100
77)	4-Ethyltoluene	11.45	105	1325634	39.23041 ppb	98
78)	2-Chlorotoluene	11.41	91	1488915	37.93064 ppb	98
79)	1,3,5-Trimethylbenzene	11.51	105	1633178	38.85655 ppb	98
80)	4-Chlorotoluene	11.52	91	1543071	38.62098 ppb	100
81)	Tert-Butylbenzene	11.84	119	1447996	36.60691 ppb	99
82)	1,2,4-Trimethylbenzene	11.88	105	1648310	39.23573 ppb	98
83)	Sec-Butylbenzene	12.05	105	2086184	39.13212 ppb	99
84)	p-Isopropyltoluene	12.20	119	1784838	39.49044 ppb	99
85)	Benzyl Chloride	12.37	91	542018	43.81822 ppb	99
86)	1,3-DCB	12.15	146	982941	37.54009 ppb	97
87)	1,4-DCB	12.24	146	992315	37.58950 ppb	99
88)	n-Butylbenzene	12.61	91	1587176	41.25854 ppb	98
89)	1,2-DCB	12.61	146	924204	37.47713 ppb	99
90)	Hexachloroethane	12.87	117	281964	39.01379 ppb	98
91)	1,2-Dibromo-3-chloropropan	13.37	157	48888	36.74069 ppb	98
92)	1,2,4-Trichlorobenzene	14.21	180	401664	40.64697 ppb	99
93)	Hexachlorobutadiene	14.40	225	341517	36.92692 ppb	98
94)	Naphthalene	14.45	128	1131959	45.12908 ppb	99
95)	1,2,3-Trichlorobenzene	14.69	180	580567	43.67888 ppb	97

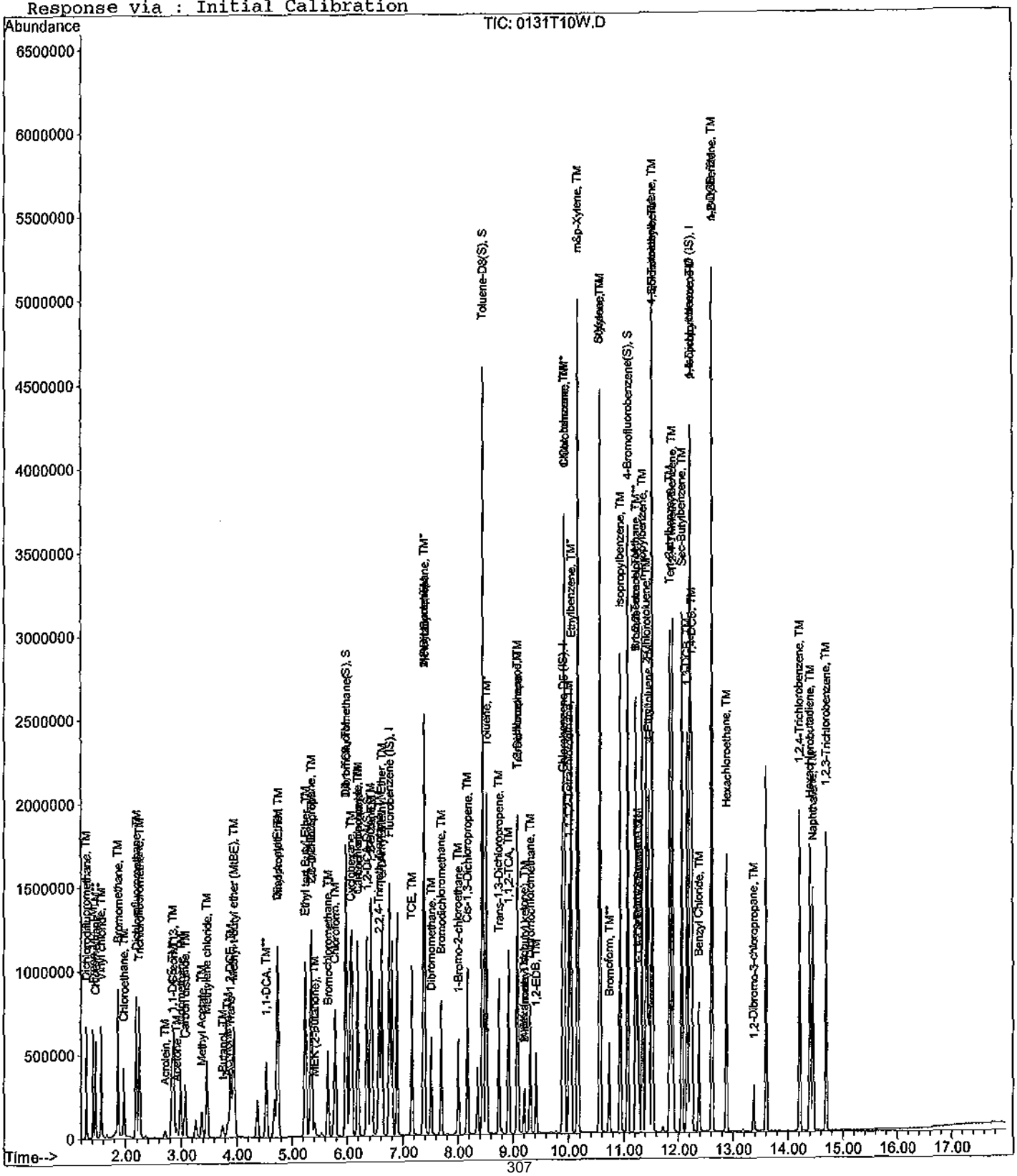
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T10W.D Vial: 10
Acq On : 31 Jan 12 14:32 Operator:
Sample : 40ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T11W.D Vial: 11
Acq On : 31 Jan 12 15:00 Operator:
Sample : 100ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.75	96	709248	25.00000 ppb		0.00
55) Chlorobenzene-D5 (IS)	9.89	117	610560	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	366848	25.00000 ppb		0.00
System Monitoring Compounds						
31) Dibromofluoromethane(S)	5.97	111	1056189	103.68465 ppb		0.00
Spiked Amount 32.661			Recovery = 317.457%			
36) 1,2-DCA-D4(S)	6.35	65	1065830	96.29805 ppb		0.00
Spiked Amount 30.896			Recovery = 311.689%			
56) Toluene-D8(S)	8.45	98	3893668	101.15026 ppb		0.00
Spiked Amount 33.937			Recovery = 298.053%			
64) 4-Bromofluorobenzene(S)	11.06	95	1551620	106.96847 ppb		0.00
Spiked Amount 33.154			Recovery = 322.642%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.30	85	892855	113.41752 ppb		100
3) Freon 114	1.42	85	501654	112.04336 ppb		96
4) Chloromethane	1.46	50	1061858	100.95458 ppb		99
5) Vinyl chloride	1.57	62	1077997	101.60884 ppb		100
6) Bromomethane	1.87	94	748901	105.44044 ppb		98
7) Chloroethane	1.97	64	685463	100.43882 ppb		95
8) Dichlorofluoromethane	2.19	67	1706522	100.23799 ppb		100
9) Trichlorofluoromethane	2.25	101	1413464	105.79867 ppb		99
10) Acrolein	2.72	55	54592	350.88988 ppb	#	58
11) Acetone	2.93	43	184939	111.76507 ppb		92
12) Freon-113	2.86	101	711043	108.68437 ppb		98
13) 1,1-DCE	2.83	61	612938	102.15262 ppb		100
14) t-Butanol	3.77	59	40816	205.66235 ppb		97
15) Methyl Acetate	3.38	43	552751	100.75335 ppb		93
16) Iodomethane	2.99	142	1188265	101.01657 ppb		99
17) Acrylonitrile	3.85	52	198246	104.83898 ppb		89
18) Methylene chloride	3.47	84	626610	100.48130 ppb		98
19) Carbon disulfide	3.07	76	1175238	108.52139 ppb		100
20) Methyl t-butyl ether (MtBE	3.95	73	2190300	101.83486 ppb		97
21) Trans-1,2-DCE	3.89	96	476518	100.95271 ppb		95
22) Diisopropyl Ether	4.74	59	334315	102.89349 ppb		95
23) 1,1-DCA	4.53	63	1295109	101.45013 ppb		98
24) Vinyl Acetate	4.74	87	829601	105.96018 ppb		99
25) Ethyl tert Butyl Ether	5.24	59	2486737	104.95908 ppb		99
26) MEK (2-Butanone)	5.41	43	269116	101.41174 ppb		99
27) Cis-1,2-DCE	5.35	96	843406	101.35992 ppb		98
28) 2,2-Dichloropropane	5.34	77	1072263	101.83978 ppb		98
29) Chloroform	5.78	83	1531668	100.46313 ppb		99
30) Bromochloromethane	5.65	128	397504	101.27331 ppb		99
32) 1,1,1-TCA	5.98	97	1172576	104.82650 ppb		97
33) Cyclohexane	6.05	41	573570	100.32276 ppb		97
34) 1,1-Dichloropropene	6.19	75	763868	105.93170 ppb		98
35) 2,2,4-Trimethylpentane	6.57	57	2352574	113.05734 ppb		98
37) Carbon Tetrachloride	6.18	117	930759	111.38171 ppb		96
38) Tert Amyl Methyl Ether	6.61	73	2347917	104.84984 ppb		96
39) 1,2-DCA	6.44	62	1031380	100.59932 ppb		99
40) Benzene	6.42	78	2771253	100.44471 ppb		98
41) TCE	7.16	95	796510	101.73291 ppb		97
42) 2-Pentanone	7.39	43	1095839	222.60742 ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T11W.D Vial: 11
Acq On : 31 Jan 12 15:00 Operator:
Sample : 100ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	1,2-Dichloropropane	7.39	63	931636	100.86485 ppb	98
44)	Bromodichloromethane	7.69	83	1241072	105.11241 ppb	99
45)	Methyl Cyclohexane	7.37	83	1183892	111.66675 ppb	100
46)	Dibromomethane	7.51	93	492574	99.05872 ppb	98
48)	MIBK (methyl isobutyl ket	9.20	43	286094	113.20196 ppb	96
49)	1-Bromo-2-chloroethane	8.01	63	685376	99.65090 ppb	99
50)	Cis-1,3-Dichloropropene	8.17	75	1326253	107.94453 ppb	98
51)	Toluene	8.51	91	3671452	104.74939 ppb	98
52)	Trans-1,3-Dichloropropene	8.74	75	1210850	114.20609 ppb	97
53)	1,1,2-TCA	8.92	83	717555	105.69912 ppb	99
54)	2-Hexanone	9.20	43	449704	102.11878 ppb	96
57)	1,2-EDB	9.41	107	783835	97.87645 ppb	99
58)	Tetrachloroethene	9.07	166	919233	96.91887 ppb	100
59)	1-Chlorohexane	9.92	91	1315417	100.53072 ppb	98
60)	1,1,1,2-Tetrachloroethane	10.01	131	1079910	107.32676 ppb	99
61)	m&p-Xylene	10.16	106	3713178	210.60894 ppb	99
62)	o-Xylene	10.55	106	1883392	106.55771 ppb	99
63)	Styrene	10.57	104	3400014	113.28757 ppb	98
65)	1,3-Dichloropropane	9.08	76	1347460	97.96250 ppb	99
66)	Dibromochloromethane	9.31	129	1015656	107.31233 ppb	99
67)	Chlorobenzene	9.92	112	2850249	99.97876 ppb	98
68)	Ethylbenzene	10.04	91	4751009	102.32326 ppb	100
69)	Bromoform	10.73	173	694633	117.06801 ppb	98
71)	Isopropylbenzene	10.93	105	4859710	97.05162 ppb	98
72)	1,1,2,2-Tetrachloroethane	11.21	83	1064590	98.78078 ppb	96
73)	1,2,3-Trichloropropane	11.24	110	309940	92.19842 ppb	95
74)	t-1,4-Dichloro-2-Butene	11.27	53	235447	96.30925 ppb	97
75)	Bromobenzene	11.21	156	1389883	91.68598 ppb	99
76)	n-Propylbenzene	11.33	91	6142684	99.74011 ppb	99
77)	4-Ethyltoluene	11.45	105	3616939	101.67918 ppb	98
78)	2-Chlorotoluene	11.41	91	4025562	97.41785 ppb	98
79)	1,3,5-Trimethylbenzene	11.51	105	4502740	101.76519 ppb	99
80)	4-Chlorotoluene	11.52	91	4241552	100.84488 ppb	99
81)	Tert-Butylbenzene	11.84	119	3976151	95.48832 ppb	98
82)	1,2,4-Trimethylbenzene	11.88	105	4562437	103.16477 ppb	99
83)	Sec-Butylbenzene	12.06	105	5789861	103.16695 ppb	100
84)	p-Isopropyltoluene	12.20	119	4958898	104.22457 ppb	98
85)	Benzyl Chloride	12.37	91	1672963	128.47514 ppb	99
86)	1,3-DCB	12.15	146	2714092	98.46550 ppb	98
87)	1,4-DCB	12.24	146	2735808	98.44515 ppb	99
88)	n-Butylbenzene	12.61	91	4520103	111.61660 ppb	99
89)	1,2-DCB	12.61	146	2564687	98.79262 ppb	98
90)	Hexachloroethane	12.87	117	829013	108.96261 ppb	98
91)	1,2-Dibromo-3-chloropropan	13.37	157	143808	102.66438 ppb	95
92)	1,2,4-Trichlorobenzene	14.21	180	1201152	115.46622 ppb	99
93)	Hexachlorobutadiene	14.40	225	964377	99.05338 ppb	98
94)	Naphthalene	14.45	128	3324999	125.92414 ppb	100
95)	1,2,3-Trichlorobenzene	14.70	180	1670073	119.35656 ppb	100

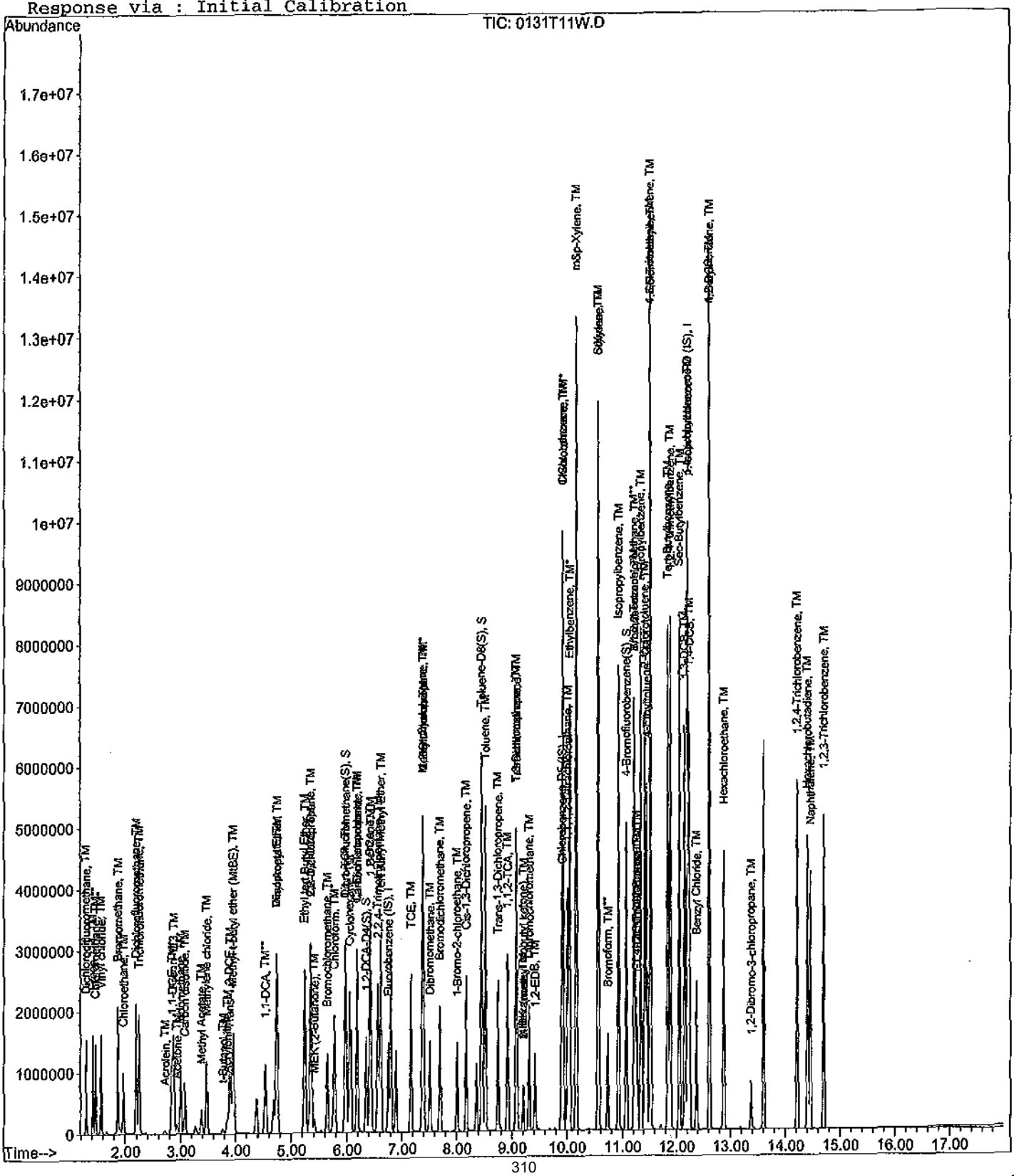
(#) = qualifier out of range (m) = manual integration

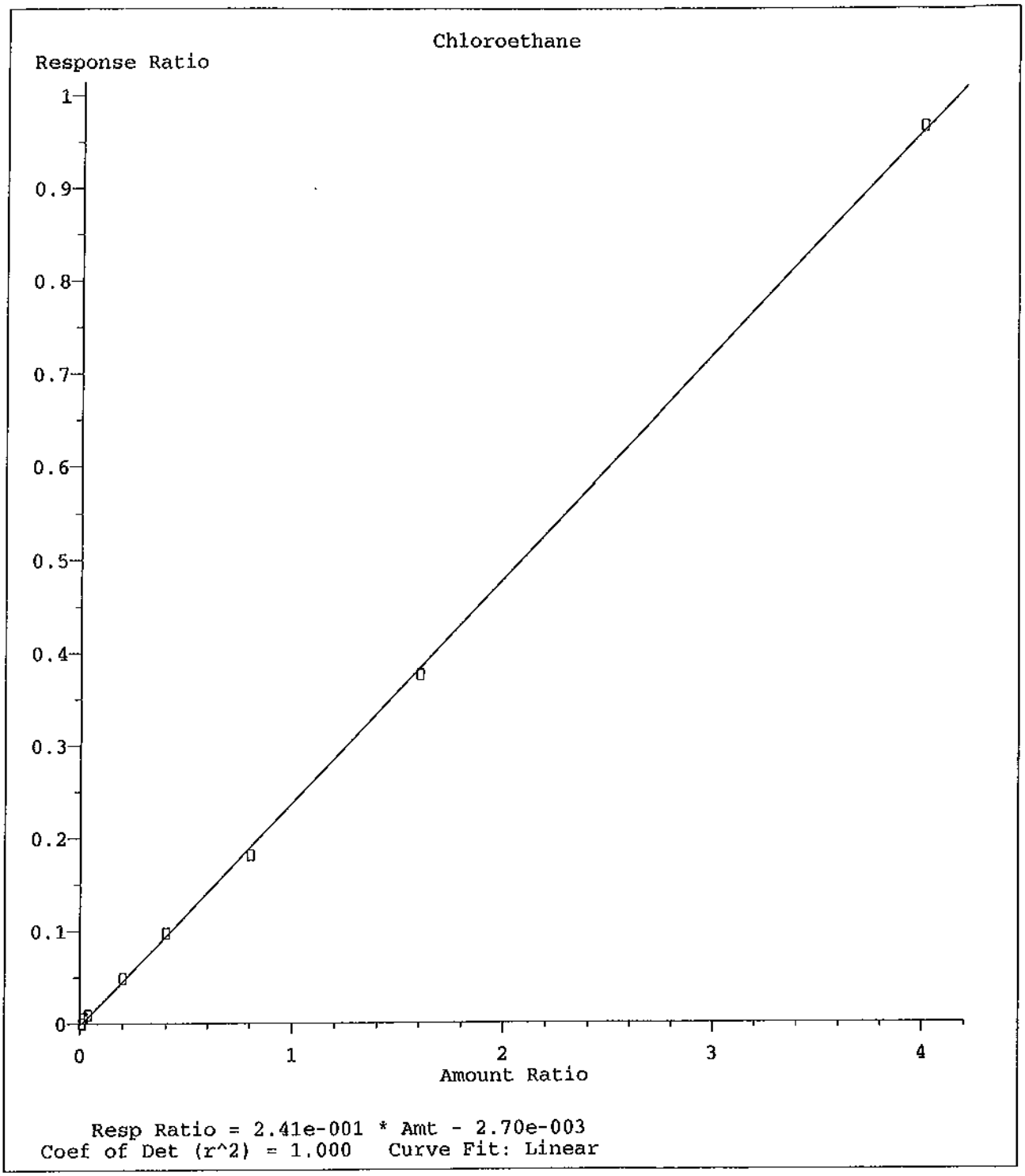
Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T11W.D Vial: 11
Acq On : 31 Jan 12 15:00 Operator:
Sample : 100ug/L VOC STD 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

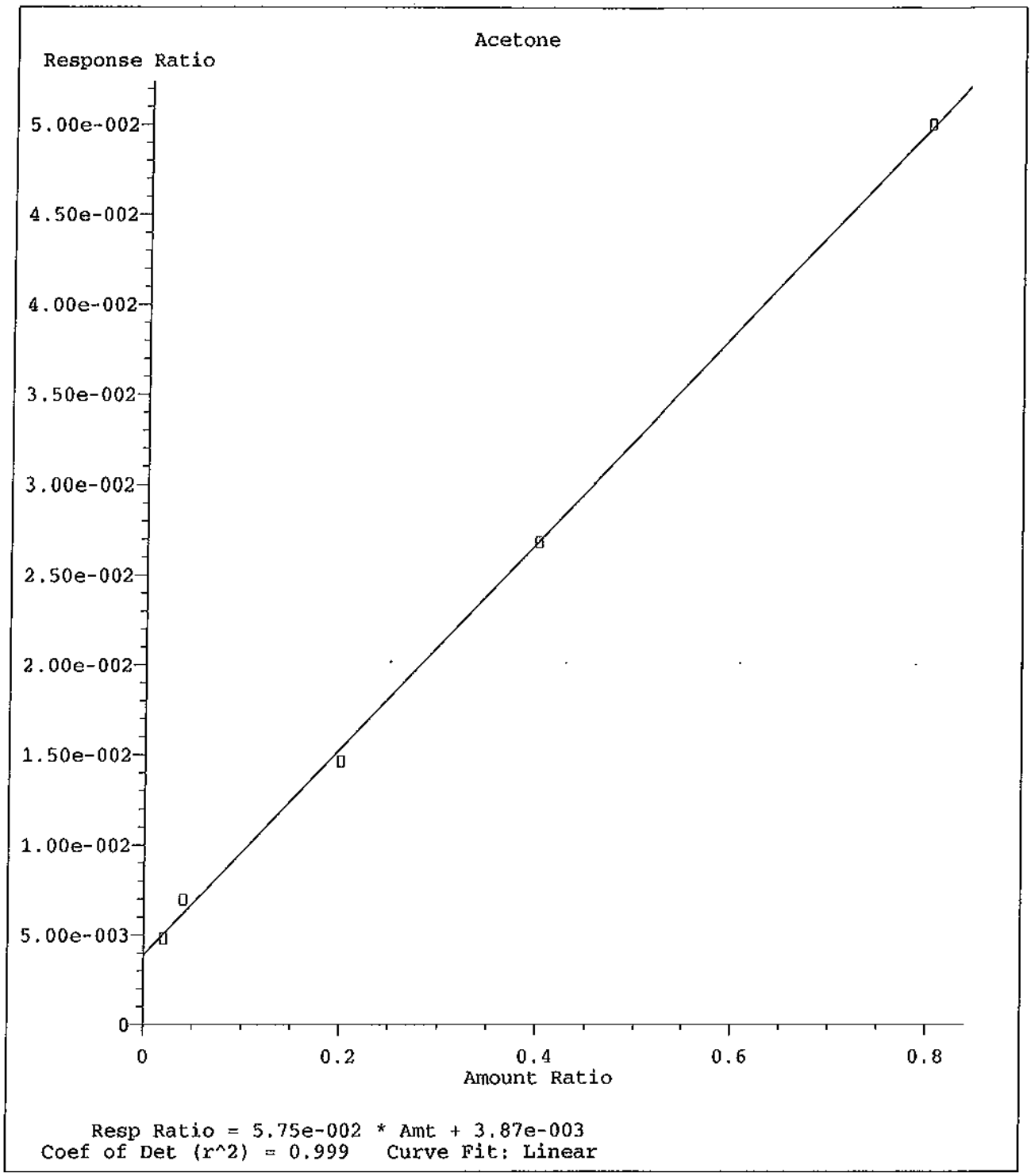
Quant Time: Feb 1 9:00 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration

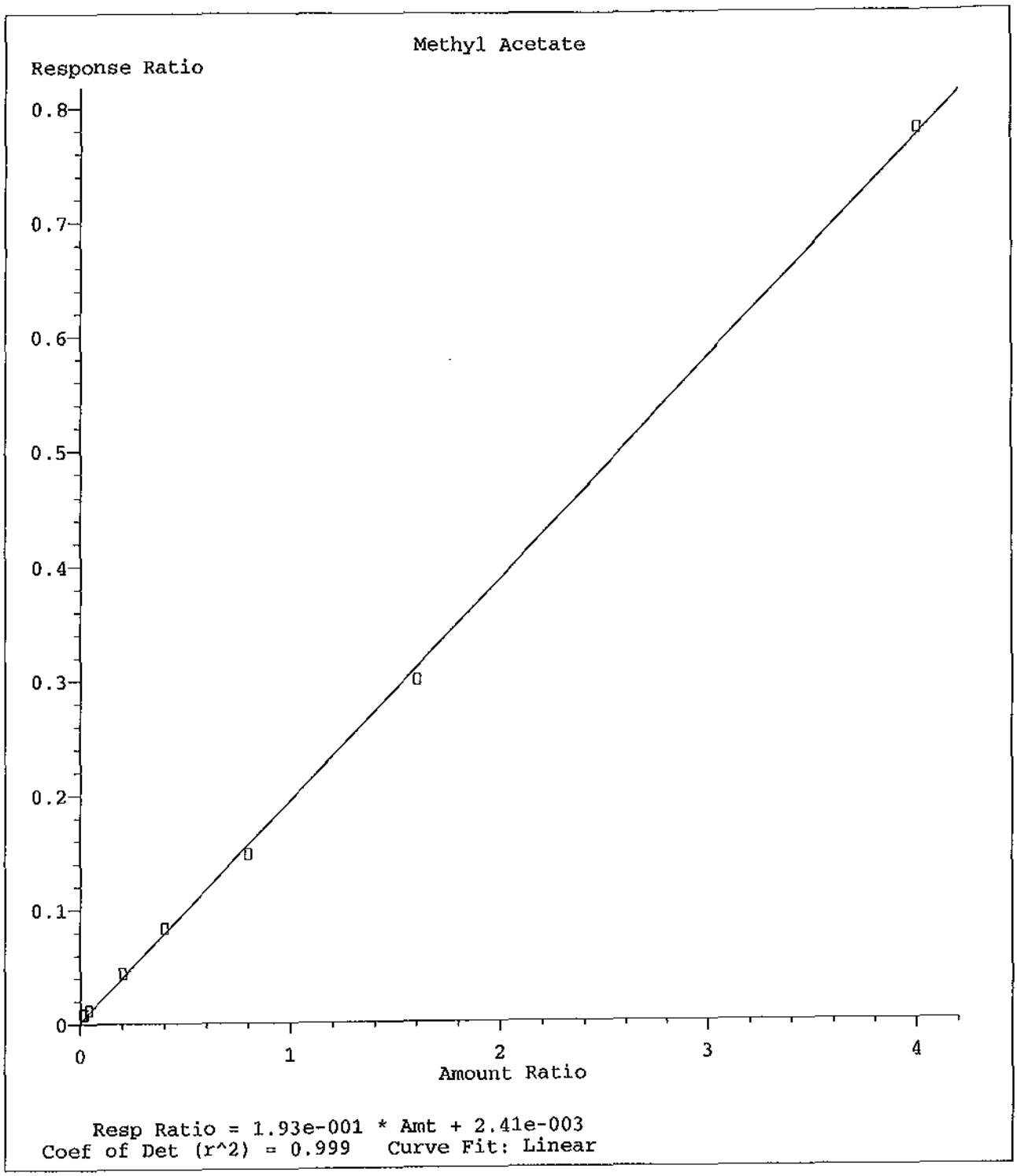




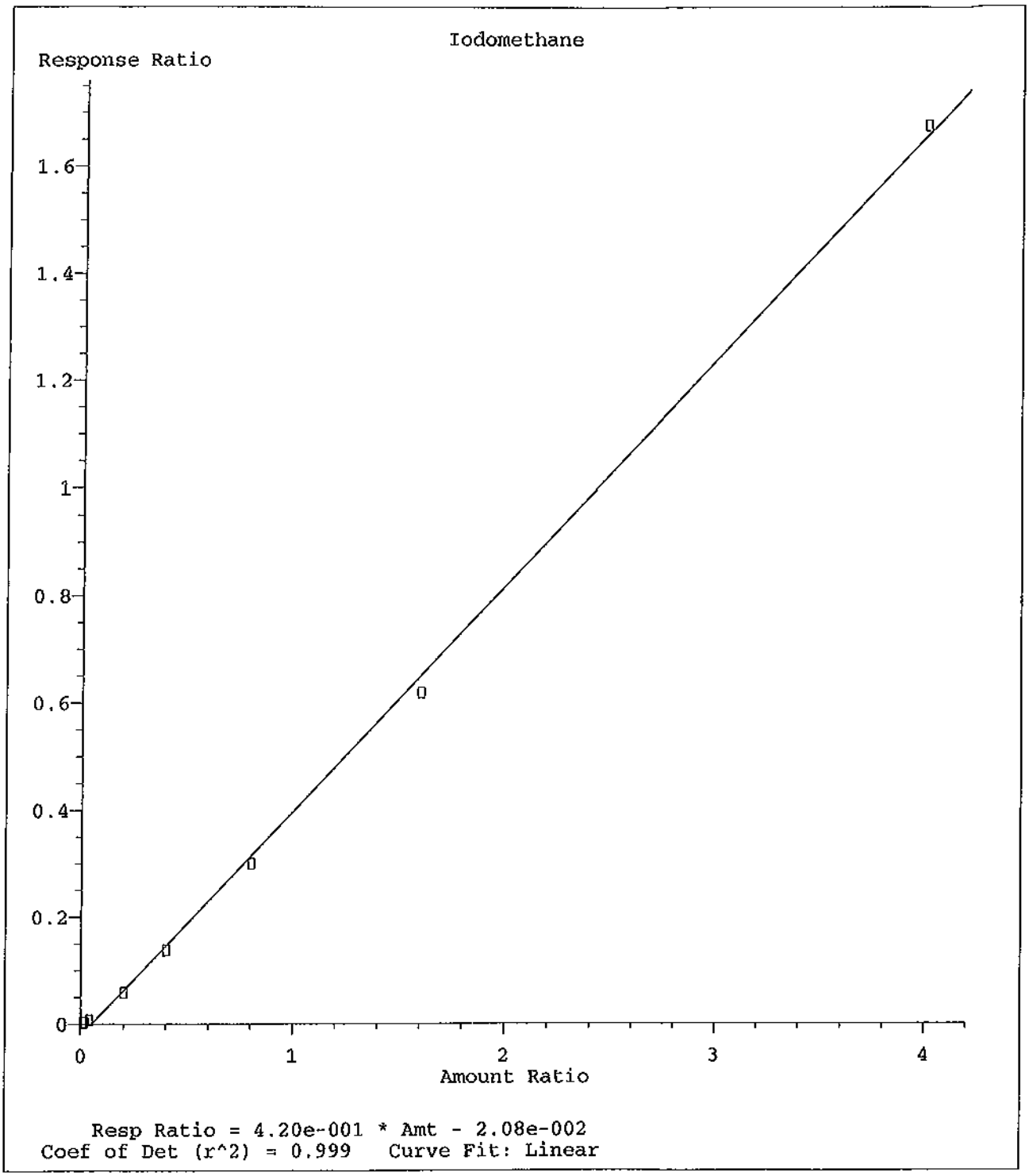
Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



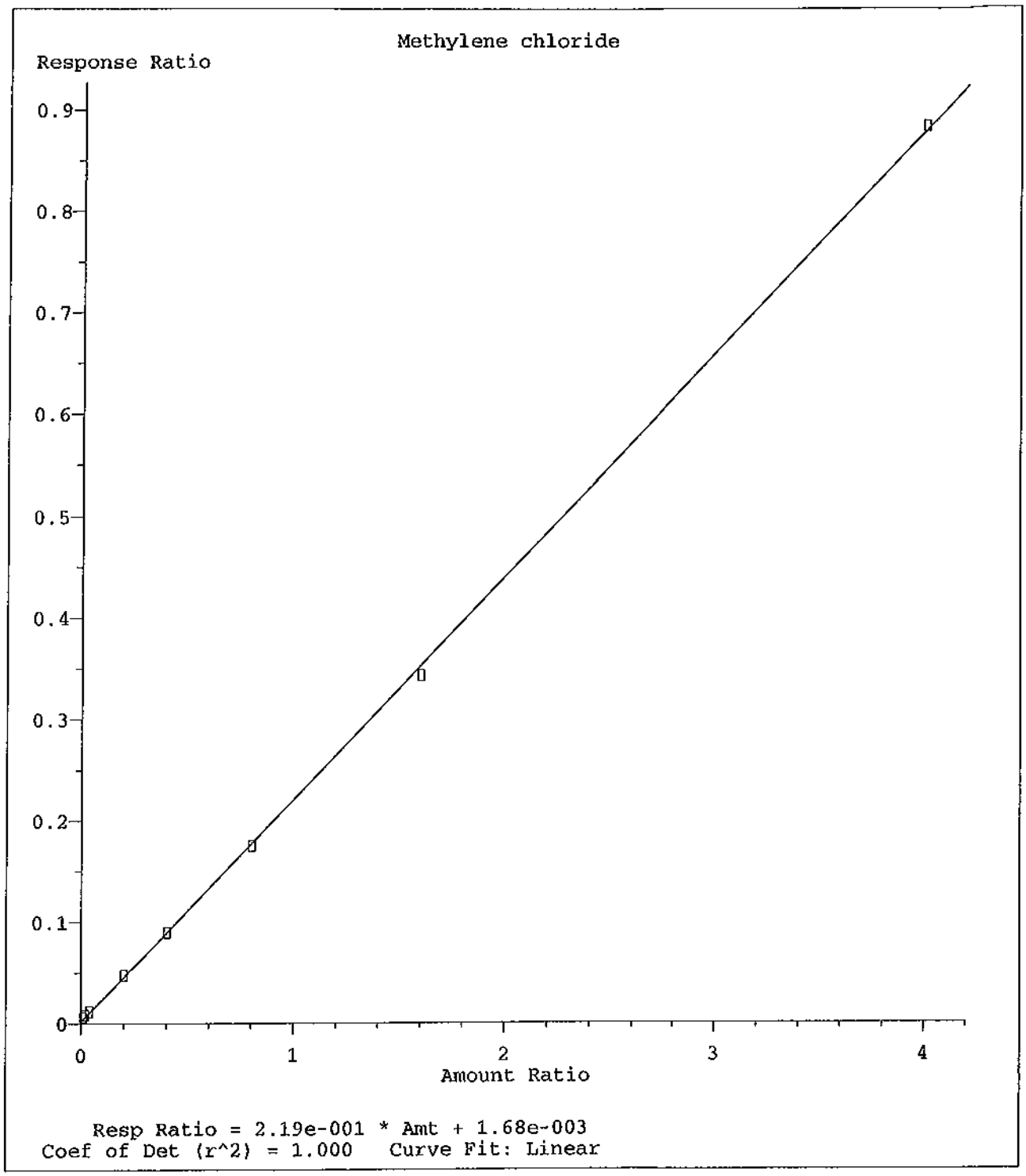
Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



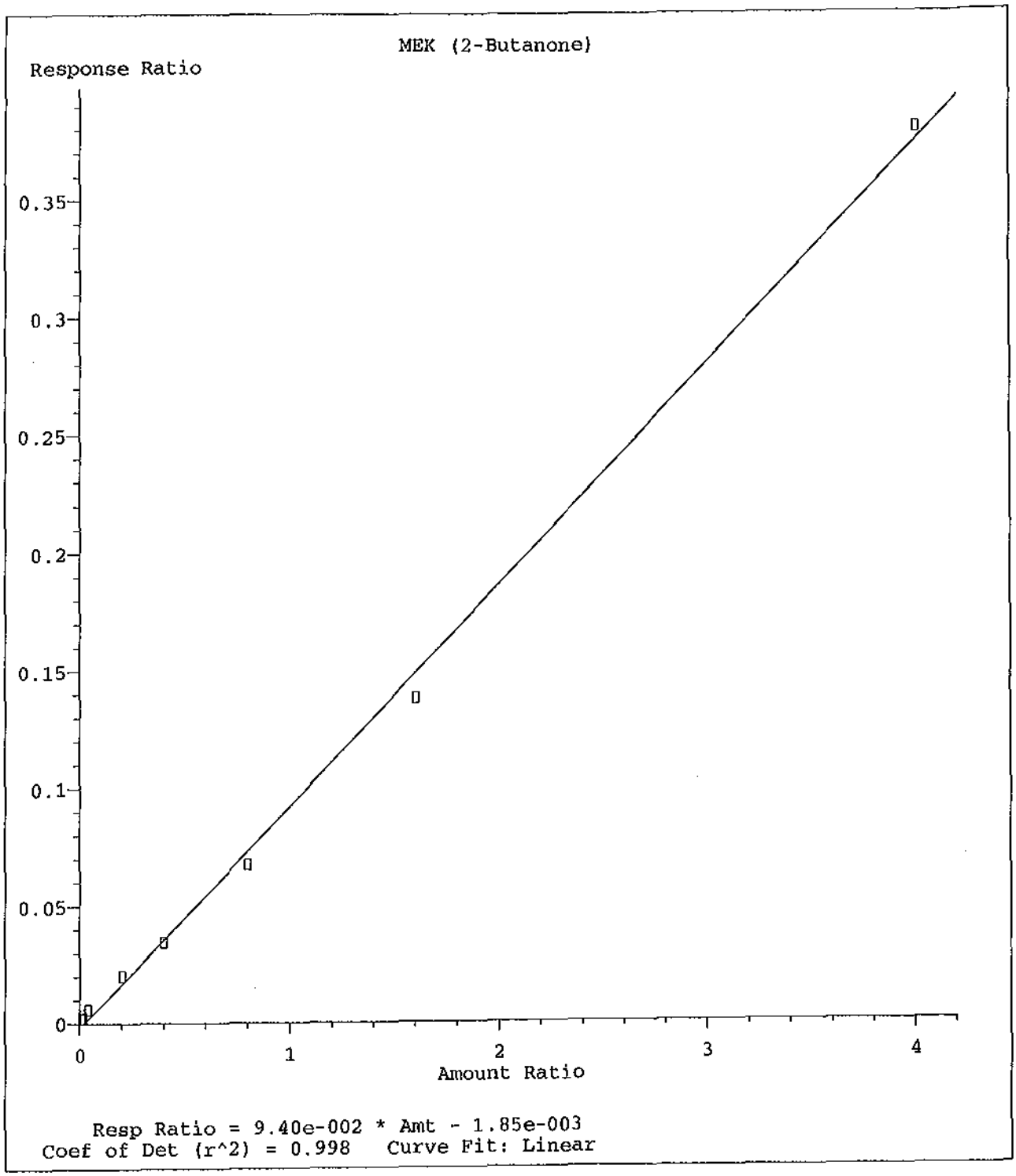
Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



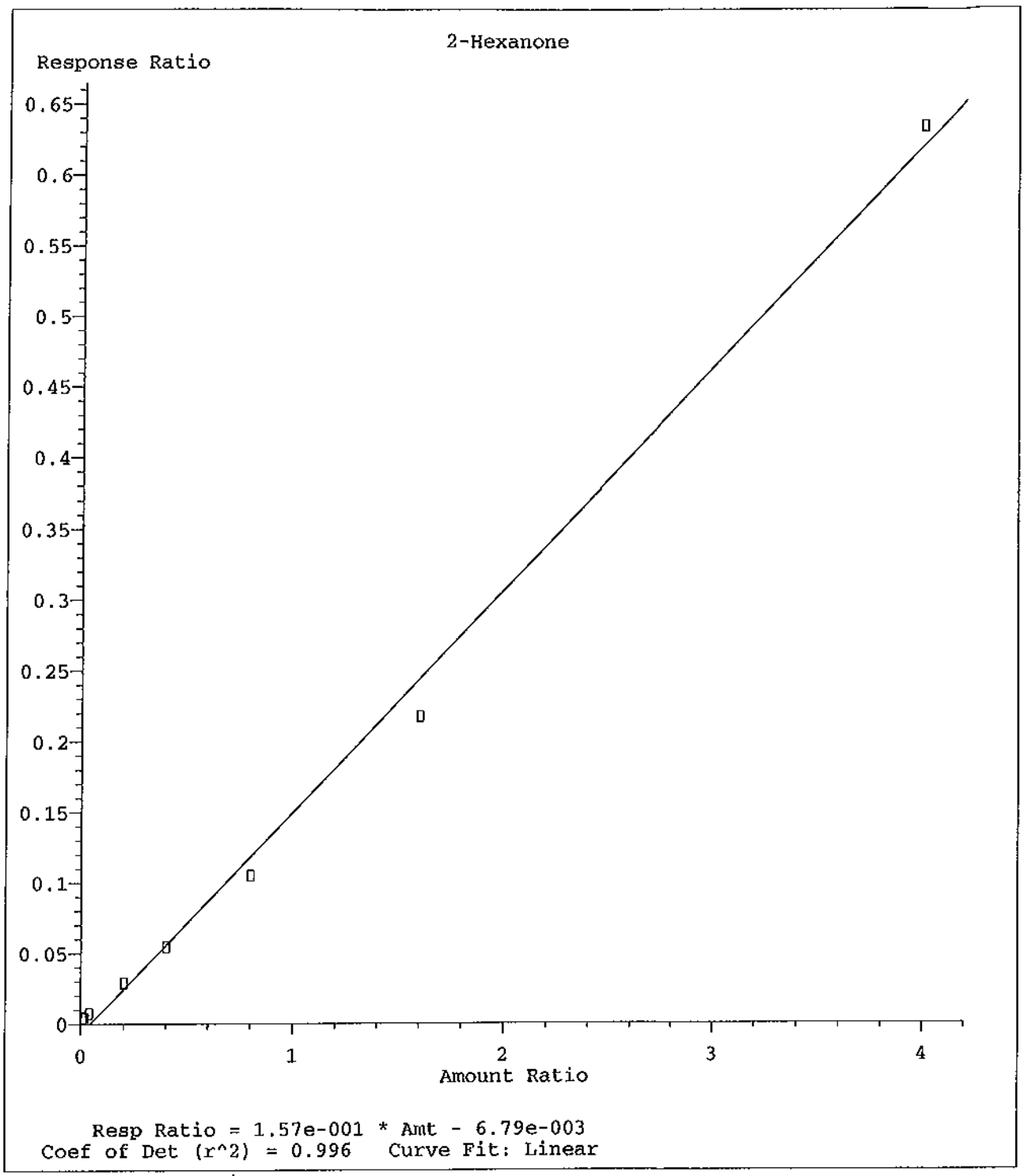
Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



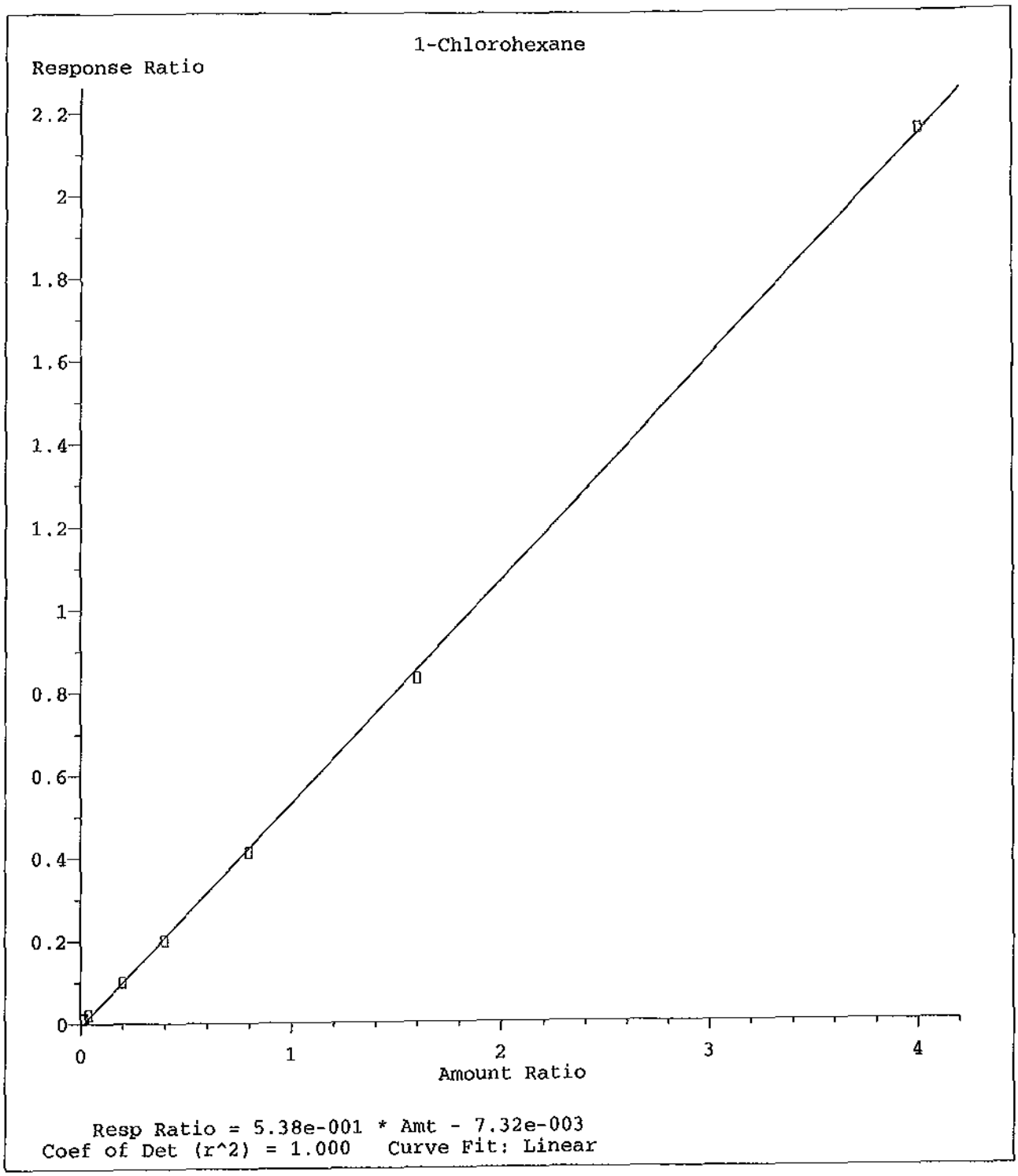
Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012



Method Name: M:\THOR\DATA\T120131\TALLW.M
Calibration Table Last Updated: Wed Feb 01 08:59:11 2012

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66826
Date Analyzed: 01/31/12
Instrument: Thor
Initial Cal. Date: 01/31/12
Data File: 0131T17W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	0.2775	0.3099	12	TM	
3	TM	Freon 114	0.1578	0.1727	9.4	TM	
4	TM**	Chloromethane	0.3708	0.3566	3.8	TM**	
5	TM*	Vinyl chloride	0.3740	0.3677	1.7	TM*	
6	TM	Bromomethane	0.2504	0.2119	15	TM	
7	TML	Chloroethane	0.2134	0.2380	11	TML	1.4
8	TM	Dichlorofluoromethane	0.6001	0.6031	0.49	TM	
9	TM	Trichlorofluoromethane	0.4709	0.4894	3.9	TM	
10	TM	Acrolein	0.0055	0.0054	2.0	TM	
11	TML	Acetone	0.1234	0.0767	38	TML	17
12	TM	Freon-113	0.2306	0.2379	3.2	TM	
13	TM*	1,1-DCE	0.2115	0.2147	1.5	TM*	
14	TM	t-Butanol	0.0070	0.0072	2.5	TM	
15	TML	Methyl Acetate	0.3032	0.2028	33	TML	2.1
16	TML	Iodomethane	0.2942	0.3037	3.2	TML	15
17	TM	Acrylonitrile	0.0667	0.0680	2.1	TM	
18	TML	Methylene chloride	0.2935	0.2263	23	TML	1.2
19	TM	Carbon disulfide	0.3817	0.3903	2.2	TM	
20	TM	Methyl t-butyl ether (MtBE)	0.7581	0.7602	0.27	TM	
21	TM	Trans-1,2-DCE	0.1664	0.1637	1.6	TM	
22	TM	Diisopropyl Ether	0.1145	0.1162	1.5	TM	
23	TM**	1,1-DCA	0.4500	0.4444	1.2	TM**	
24	TM	Vinyl Acetate	0.2760	0.2823	2.3	TM	
25	TM	Ethyl tert Butyl Ether	0.8351	0.8439	1.1	TM	
26	TML	MEK (2-Butanone)	0.1099	0.0992	9.7	TML	11
27	TM	Cis-1,2-DCE	0.2933	0.2991	2.0	TM	
28	TM	2,2-Dichloropropane	0.3711	0.3469	6.5	TM	
29	TM*	Chloroform	0.5374	0.5274	1.9	TM*	
30	TM	Bromochloromethane	0.1384	0.1356	2.0	TM	
31	S	Dibromofluoromethane(S)	0.3591	0.3514	2.1	S	
32	TM	1,1,1-TCA	0.3943	0.3920	0.59	TM	
33	TM	Cyclohexane	0.2015	0.1928	4.3	TM	
34	TM	1,1-Dichloropropene	0.2542	0.2600	2.3	TM	
35	TM	2,2,4-Trimethylpentane	0.7335	0.7503	2.3	TM	
36	S	1,2-DCA-D4(S)	0.3901	0.3868	0.86	S	
37	TM	Carbon Tetrachloride	0.2946	0.3021	2.6	TM	
38	TM	Tert Amyl Methyl Ether	0.7893	0.7857	0.46	TM	
39	TM	1,2-DCA	0.3614	0.3589	0.69	TM	
40	TM	Benzene	0.9725	0.9566	1.6	TM	
		Average			5.5		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No: 66826
Case No: Date Analyzed: 01/31/12
Matrix: Water Instrument: Thor
Cal. Date: 01/31/12
Data File: 0131T17W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	TCE	0.2760	0.2757	0.11	TM	
42	TM	2-Pentanone	0.1735	0.1720	0.86	TM	
43	TM*	1,2-Dichloropropane	0.3256	0.3218	1.2	TM*	
44	TM	Bromodichloromethane	0.4162	0.4112	1.2	TM	
45	TM	Methyl Cyclohexane	0.3737	0.3885	4.0	TM	
46	TM	Dibromomethane	0.1753	0.1696	3.2	TM	
47	TM	MIBK (methyl isobutyl ketone)	0.0891	0.0912	2.4	TM	
48	TM	1-Bromo-2-chloroethane	0.2424	0.2287	5.7	TM	
49	TM	Cis-1,3-Dichloropropene	0.4331	0.4336	0.11	TM	
50	TM*	Toluene	1.235	1.234	0.13	TM*	
51	TM	Trans-1,3-Dichloropropene	0.3737	0.3724	0.36	TM	
52	TM	1,1,2-TCA	0.2393	0.2417	1.0	TM	
53	TML	2-Hexanone	0.1787	0.1519	15	TML	7.6
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	1.576	1.541	2.2	S	
56	TM	1,2-EDB	0.3279	0.3222	1.7	TM	
57	TM	Tetrachloroethene	0.3884	0.3886	0.06	TM	
58	TML	1-Chlorohexane	0.5744	0.5131	11	TML	1.2
59	TM	1,1,1,2-Tetrachloroethane	0.4120	0.4127	0.18	TM	
60	TM	m&p-Xylene	0.7219	0.7258	0.53	TM	
61	TM	o-Xylene	0.7237	0.7347	1.5	TM	
62	TM	Styrene	1.229	1.243	1.2	TM	
63	S	4-Bromofluorobenzene(S)	0.5939	0.6088	2.5	S	
64	TM	1,3-Dichloropropane	0.5632	0.5719	1.5	TM	
65	TM	Dibromochloromethane	0.3875	0.3812	1.6	TM	
66	TM**	Chlorobenzene	1.167	1.148	1.6	TM**	
67	TM*	Ethylbenzene	1.901	1.896	0.30	TM*	
68	TM**	Bromoform	0.2430	0.2557	5.2	TM**	
69	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
70	TM	Isopropylbenzene	3.412	3.309	3.0	TM	
71	TM**	1,1,2,2-Tetrachloroethane	0.7345	0.7388	0.59	TM**	
72	TM	1,2,3-Trichloropropane	0.2291	0.2219	3.1	TM	
73	TM	t-1,4-Dichloro-2-Butene	0.1666	0.1481	11	TM	
74	TM	Bromobenzene	1.033	0.9552	7.5	TM	
75	TM	n-Propylbenzene	4.197	4.098	2.4	TM	
76	TM	4-Ethyltoluene	2.424	2.397	1.1	TM	
77	TM	2-Chlorotoluene	2.816	2.752	2.3	TM	
78	TM	1,3,5-Trimethylbenzene	3.015	2.937	2.6	TM	
79	TM	4-Chlorotoluene	2.866	2.833	1.1	TM	
80	TM	Tert-Butylbenzene	2.838	2.648	6.7	TM	
		Average			2.8		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66826
Date Analyzed: 01/31/12
Instrument: Thor
Cal. Date: 01/31/12
Data File: 0131T17W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	1,2,4-Trimethylbenzene	3.014	2.966	1.6	TM	
82	TM	Sec-Butylbenzene	3.825	3.788	0.97	TM	
83	TM	p-Isopropyltoluene	3.242	3.155	2.7	TM	
84	TM	Benzyl Chloride	0.8874	0.7626	14	TM	
85	TM	1,3-DCB	1.878	1.807	3.8	TM	
86	TM	1,4-DCB	1.894	1.809	4.5	TM	
87	TM	n-Butylbenzene	2.760	2.725	1.2	TM	
88	TM	1,2-DCB	1.769	1.695	4.2	TM	
89	TM	Hexachloroethane	0.5185	0.4870	6.1	TM	
90	TM	1,2-Dibromo-3-chloropropane	0.0955	0.0809	15	TM	
91	TM	1,2,4-Trichlorobenzene	0.7089	0.6887	2.9	TM	
92	TM	Hexachlorobutadiene	0.6635	0.6356	4.2	TM	
93	TM	Naphthalene	1.799	1.856	3.1	TM	
94	TM	1,2,3-Trichlorobenzene	0.9535	0.9406	1.4	TM	
95							
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			4.7		

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 Operator:
Sample : 120131A LCS-1WT (SS) Inst : Thor
Misc : 10ml w/5ul of IS: 12/25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	721472	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	577472	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	323520	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	331202	31.96277 ppb	0.00
Spiked Amount 32.661			Recovery	= 97.863%	
36) 1,2-DCA-D4(S)	6.34	65	344866	30.63082 ppb	0.00
Spiked Amount 30.896			Recovery	= 99.144%	
56) Toluene-D8(S)	8.44	98	1208016	33.18014 ppb	0.00
Spiked Amount 33.937			Recovery	= 97.770%	
64) 4-Bromofluorobenzene(S)	11.06	95	466225	33.98313 ppb	0.00
Spiked Amount 33.154			Recovery	= 102.501%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.28	85	89447	11.16976 ppb	99
3) Freon 114	1.40	85	49840	10.94305 ppb	100
4) Chloromethane	1.44	50	102916	9.61880 ppb	97
5) Vinyl chloride	1.55	62	#106116	9.83271 ppb	98
6) Bromomethane	1.85	94	61157	8.46462 ppb	99
7) Chloroethane	1.96	64	68671	10.14348 ppb	97
8) Dichlorofluoromethane	2.17	67	174035	10.04930 ppb	100
9) Trichlorofluoromethane	2.23	101	141224	10.39160 ppb	97
10) Acrolein	2.70	55	19380	122.45436 ppb	82
11) Acetone	2.90	43	22126	11.66013 ppb	83
12) Freon-113	2.85	101	68650	10.31550 ppb	97
13) 1,1-DCE	2.81	61	61955	10.15051 ppb	98
14) t-Butanol	3.73	59	25856	128.07499 ppb	95
15) Methyl Acetate	3.36	43	58526	10.20702 ppb	90
16) Iodomethane	2.97	142	87651	8.47425 ppb	94
17) Acrylonitrile	3.82	52	19634	10.20718 ppb	83
18) Methylene chloride	3.45	84	65320	10.12472 ppb	93
19) Carbon disulfide	3.06	76	112630	10.22403 ppb	97
20) Methyl t-butyl ether (MtBE	3.93	73	219378	10.02685 ppb	98
21) Trans-1,2-DCE	3.87	96	47232	9.83680 ppb	96
22) Diisopropyl Ether	4.72	59	33543	10.14875 ppb	93
23) 1,1-DCA	4.51	63	128263	9.87703 ppb	99
24) Vinyl Acetate	4.72	87	81461	10.22826 ppb	94
25) Ethyl tert Butyl Ether	5.23	59	243541	10.10511 ppb	98
26) MEK (2-Butanone)	5.40	43	28640	11.05030 ppb	96
27) Cis-1,2-DCE	5.34	96	86319	10.19799 ppb	100
28) 2,2-Dichloropropane	5.33	77	100111	9.34709 ppb	97
29) Chloroform	5.77	83	152199	9.81369 ppb	100
30) Bromochloromethane	5.63	128	39123	9.79861 ppb	93
32) 1,1,1-TCA	5.97	97	113118	9.94124 ppb	100
33) Cyclohexane	6.04	41	55633	9.56586 ppb	92
34) 1,1-Dichloropropene	6.18	75	75028	10.22845 ppb	99
35) 2,2,4-Trimethylpentane	6.56	57	216542	10.23001 ppb	99
37) Carbon Tetrachloride	6.17	117	87181	10.25598 ppb	97
38) Tert Amyl Methyl Ether	6.61	73	226745	9.95409 ppb	98
39) 1,2-DCA	6.43	62	103571	9.93100 ppb	98
40) Benzene	6.41	78	276076	9.83690 ppb	99
41) TCE	7.16	95	79560	9.98950 ppb	98
42) 2-Pentanone	7.38	43	620548	123.92157 ppb	98

$\frac{106116 \times 25}{721472 \times 0.3740} = 9.83$

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 Operator:
Sample : 120131A LCS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	1,2-Dichloropropane	7.39	63	92869	9.88423 ppb	99
44)	Bromodichloromethane	7.69	83	118663	9.87986 ppb	99
45)	Methyl Cyclohexane	7.37	83	112123	10.39645 ppb	99
46)	Dibromomethane	7.51	93	48958	9.67884 ppb	93
48)	MIBK (methyl isobutyl ket	9.20	43	26318	10.23709 ppb	92
49)	1-Bromo-2-chloroethane	8.00	63	66000	9.43354 ppb	94
50)	Cis-1,3-Dichloropropene	8.17	75	125120	10.01105 ppb	98
51)	Toluene	8.51	91	356062	9.98661 ppb	98
52)	Trans-1,3-Dichloropropene	8.74	75	107465	9.96425 ppb	97
53)	1,1,2-TCA	8.92	83	69763	10.10229 ppb	98
54)	2-Hexanone	9.20	43	43835	10.76441 ppb	92
57)	1,2-EDB	9.41	107	74425	9.82584 ppb	98
58)	Tetrachloroethene	9.07	166	89761	10.00617 ppb	99
59)	1-Chlorohexane	9.92	91	118519	9.88469 ppb	99
60)	1,1,1,2-Tetrachloroethane	10.00	131	95340	10.01828 ppb	99
61)	m&p-Xylene	10.16	106	335284	20.10672 ppb	99
62)	o-Xylene	10.55	106	169711	10.15200 ppb	100
63)	Styrene	10.56	104	287132	10.11534 ppb	95
65)	1,3-Dichloropropane	9.08	76	132096	10.15386 ppb	98
66)	Dibromochloromethane	9.31	129	88053	9.83659 ppb	99
67)	Chlorobenzene	9.92	112	265218	9.83615 ppb	99
68)	Ethylbenzene	10.04	91	437842	9.97019 ppb	100
69)	Bromoform	10.73	173	59065	10.52472 ppb	98
71)	Isopropylbenzene	10.93	105	428276	9.69843 ppb	98
72)	1,1,2,2-Tetrachloroethane	11.21	83	95608	10.05934 ppb	95
73)	1,2,3-Trichloropropane	11.24	110	28716	9.68623 ppb	94
74)	t-1,4-Dichloro-2-Butene	11.26	53	19163	8.88840 ppb	94
75)	Bromobenzene	11.21	156	123604	9.24575 ppb	100
76)	n-Propylbenzene	11.33	91	530268	9.76320 ppb	98
77)	4-Ethyltoluene	11.45	105	310148	9.88655 ppb	100
78)	2-Chlorotoluene	11.41	91	356117	9.77214 ppb	96
79)	1,3,5-Trimethylbenzene	11.51	105	380082	9.74058 ppb	95
80)	4-Chlorotoluene	11.52	91	366677	9.88548 ppb	99
81)	Tert-Butylbenzene	11.84	119	342707	9.33244 ppb	100
82)	1,2,4-Trimethylbenzene	11.88	105	383886	9.84287 ppb	98
83)	Sec-Butylbenzene	12.05	105	490146	9.90337 ppb	100
84)	p-Isopropyltoluene	12.20	119	408260	9.72986 ppb	100
85)	Benzyl Chloride	12.37	91	98692	8.59409 ppb	100
86)	1,3-DCB	12.15	146	233870	9.62097 ppb	97
87)	1,4-DCB	12.24	146	234146	9.55390 ppb	99
88)	n-Butylbenzene	12.61	91	352693	9.87557 ppb	98
89)	1,2-DCB	12.61	146	219383	9.58248 ppb	99
90)	Hexachloroethane	12.87	117	63020	9.39246 ppb	97
91)	1,2-Dibromo-3-chloropropan	13.37	157	10475	8.47961 ppb	96
92)	1,2,4-Trichlorobenzene	14.21	180	89120	9.71443 ppb	96
93)	Hexachlorobutadiene	14.40	225	82253	9.57986 ppb	94
94)	Naphthalene	14.45	128	240182	10.31438 ppb	98
95)	1,2,3-Trichlorobenzene	14.69	180	121722	9.86427 ppb	97

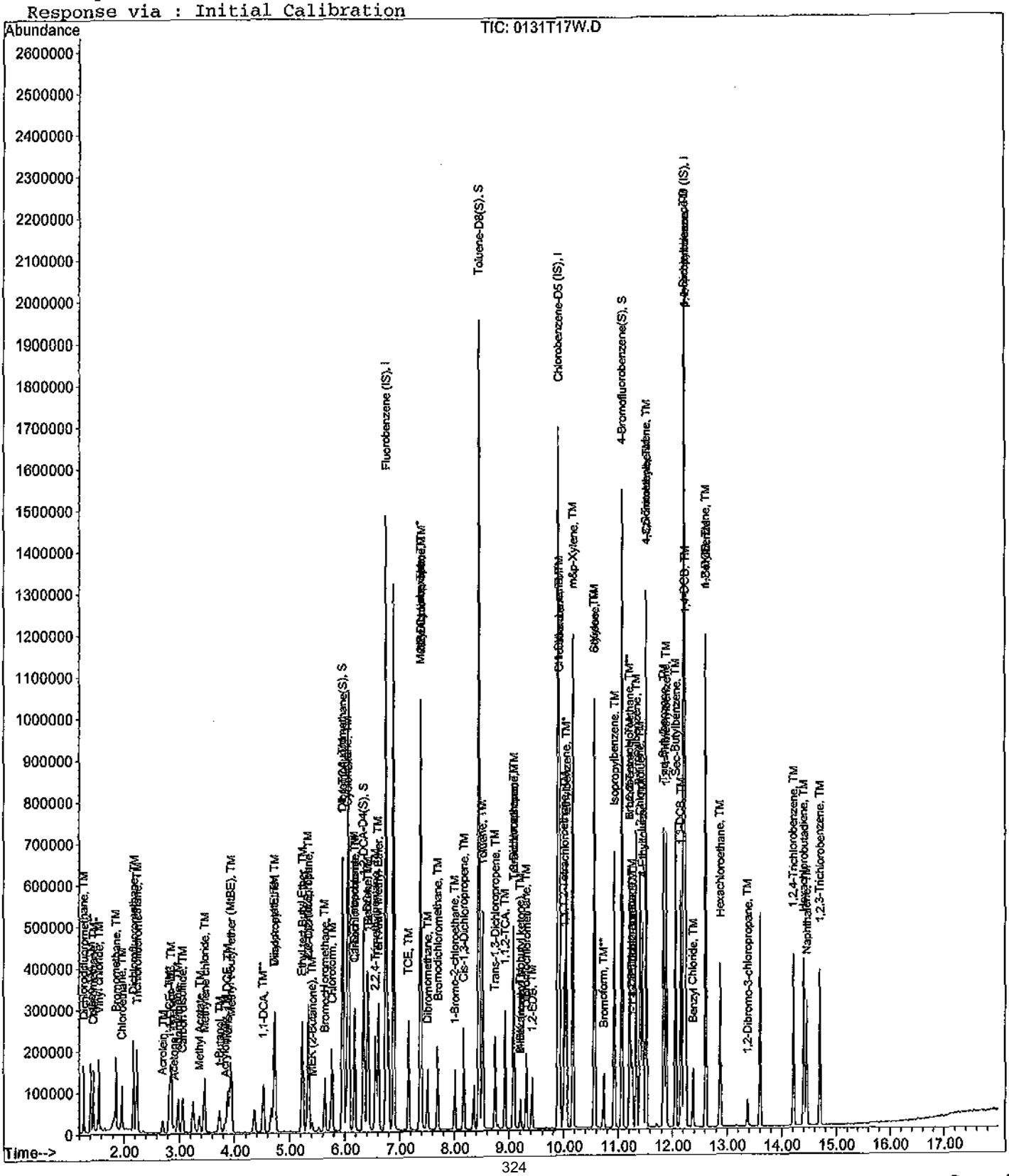
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 Operator:
Sample : 120131A LCS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66826
Date Analyzed: 01/31/12
Instrument: Thor
Initial Cal. Date: 01/31/12
Data File: 0131T16W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.2775	0.3111	12	TM		
3	TM	Freon 114	0.1578	0.1751	11	TM		
4	TM**	Chloromethane	0.3708	0.3709	0.04	TM**		
5	TM*	Vinyl chloride	0.3740	0.3820	2.2	TM*		
6	TM	Bromomethane	0.2504	0.2270	9.3	TM		
7	TML	Chloroethane	0.2134	0.2443	14	TML	4.1	
8	TM	Dichlorofluoromethane	0.6001	0.6069	1.1	TM		
9	TM	Trichlorofluoromethane	0.4709	0.4908	4.2	TM		
10	TM	Acrolein	0.0055	0.0056	1.6	TM		
11	TML	Acetone	0.1234	0.0820	34	TML	26	*NT
12	TM	Freon-113	0.2306	0.2488	7.9	TM		
13	TM*	1,1-DCE	0.2115	0.2157	2.0	TM*		
14	TM	t-Butanol	0.0070	0.0070	0.49	TM		
15	TML	Methyl Acetate	0.3032	0.2011	34	TML	1.2	
16	TML	Iodomethane	0.2942	0.3042	3.4	TML	15	
17	TM	Acrylonitrile	0.0667	0.0700	5.0	TM		
18	TML	Methylene chloride	0.2935	0.2368	19	TML	6.0	
19	TM	Carbon disulfide	0.3817	0.4052	6.2	TM		
20	TM	Methyl t-butyl ether (MtBE)	0.7581	0.7680	1.3	TM		
21	TM	Trans-1,2-DCE	0.1664	0.1702	2.3	TM		
22	TM	Diisopropyl Ether	0.1145	0.1134	0.95	TM		
23	TM**	1,1-DCA	0.4500	0.4586	1.9	TM**		
24	TM	Vinyl Acetate	0.2760	0.2873	4.1	TM		
25	TM	Ethyl tert Butyl Ether	0.8351	0.8391	0.48	TM		
26	TML	MEK (2-Butanone)	0.1099	0.0953	13	TML	6.4	
27	TM	Cis-1,2-DCE	0.2933	0.2986	1.8	TM		
28	TM	2,2-Dichloropropane	0.3711	0.3456	6.9	TM		
29	TM*	Chloroform	0.5374	0.5283	1.7	TM*		
30	TM	Bromochloromethane	0.1384	0.1356	2.0	TM		
31	S	Dibromofluoromethane(S)	0.3591	0.3582	0.25	S		
32	TM	1,1,1-TCA	0.3943	0.4018	1.9	TM		
33	TM	Cyclohexane	0.2015	0.1964	2.6	TM		
34	TM	1,1-Dichloropropene	0.2542	0.2653	4.4	TM		
35	TM	2,2,4-Trimethylpentane	0.7335	0.7649	4.3	TM		
36	S	1,2-DCA-D4(S)	0.3901	0.3925	0.62	S		
37	TM	Carbon Tetrachloride	0.2946	0.3086	4.8	TM		
38	TM	Tert Amyl Methyl Ether	0.7893	0.7772	1.5	TM		
39	TM	1,2-DCA	0.3614	0.3693	2.2	TM		
40	TM	Benzene	0.9725	0.9693	0.33	TM		
		Average			5.8			

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No: 66826
Case No: Date Analyzed: 01/31/12
Matrix: Water Instrument: Thor
Cal. Date: 01/31/12
Data File: 0131T16W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	TCE	0.2760	0.2762	0.07	TM	
42	TM	2-Pentanone	0.1735	0.1715	1.1	TM	
43	TM*	1,2-Dichloropropane	0.3256	0.3253	0.08	TM*	
44	TM	Bromodichloromethane	0.4162	0.4237	1.8	TM	
45	TM	Methyl Cyclohexane	0.3737	0.3942	5.5	TM	
46	TM	Dibromomethane	0.1753	0.1753	0.01	TM	
47	TM	MIBK (methyl isobutyl ketone)	0.0891	0.0886	0.53	TM	
48	TM	1-Bromo-2-chloroethane	0.2424	0.2293	5.4	TM	
49	TM	Cis-1,3-Dichloropropene	0.4331	0.4374	1.00	TM	
50	TM*	Toluene	1.235	1.230	0.47	TM*	
51	TM	Trans-1,3-Dichloropropene	0.3737	0.3863	3.4	TM	
52	TM	1,1,2-TCA	0.2393	0.2395	0.07	TM	
53	TML	2-Hexanone	0.1787	0.1479	17	TML	5.1
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	1.576	1.539	2.3	S	
56	TM	1,2-EDB	0.3279	0.3199	2.4	TM	
57	TM	Tetrachloroethene	0.3884	0.3990	2.7	TM	
58	TML	1-Chlorohexane	0.5744	0.5183	9.8	TML	0.18
59	TM	1,1,1,2-Tetrachloroethane	0.4120	0.4069	1.2	TM	
60	TM	m&p-Xylene	0.7219	0.7232	0.18	TM	
61	TM	o-Xylene	0.7237	0.7225	0.17	TM	
62	TM	Styrene	1.229	1.229	0.02	TM	
63	S	4-Bromofluorobenzene(S)	0.5939	0.6027	1.5	S	
64	TM	1,3-Dichloropropane	0.5632	0.5579	0.94	TM	
65	TM	Dibromochloromethane	0.3875	0.3890	0.37	TM	
66	TM**	Chlorobenzene	1.167	1.149	1.6	TM**	
67	TM*	Ethylbenzene	1.901	1.897	0.23	TM*	
68	TM**	Bromoform	0.2430	0.2447	0.73	TM**	
69	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
70	TM	Isopropylbenzene	3.412	3.451	1.1	TM	
71	TM**	1,1,2,2-Tetrachloroethane	0.7345	0.7475	1.8	TM**	
72	TM	1,2,3-Trichloropropane	0.2291	0.2224	2.9	TM	
73	TM	t-1,4-Dichloro-2-Butene	0.1666	0.1578	5.3	TM	
74	TM	Bromobenzene	1.033	1.006	2.6	TM	
75	TM	n-Propylbenzene	4.197	4.249	1.2	TM	
76	TM	4-Ethyltoluene	2.424	2.494	2.9	TM	
77	TM	2-Chlorotoluene	2.816	2.898	2.9	TM	
78	TM	1,3,5-Trimethylbenzene	3.015	3.083	2.3	TM	
79	TM	4-Chlorotoluene	2.866	2.924	2.0	TM	
80	TM	Tert-Butylbenzene	2.838	2.812	0.92	TM	
		Average			2.3		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66826
Date Analyzed: 01/31/12
Instrument: Thor
Cal. Date: 01/31/12
Data File: 0131T16W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	1,2,4-Trimethylbenzene	3.014	3.093	2.6	TM	
82	TM	Sec-Butylbenzene	3.825	3.936	2.9	TM	
83	TM	p-Isopropyltoluene	3.242	3.292	1.5	TM	
84	TM	Benzyl Chloride	0.8874	0.8297	6.5	TM	
85	TM	1,3-DCB	1.878	1.881	0.13	TM	
86	TM	1,4-DCB	1.894	1.908	0.77	TM	
87	TM	n-Butylbenzene	2.760	2.888	4.6	TM	
88	TM	1,2-DCB	1.769	1.785	0.87	TM	
89	TM	Hexachloroethane	0.5185	0.5179	0.12	TM	
90	TM	1,2-Dibromo-3-chloropropane	0.0955	0.0851	11	TM	
91	TM	1,2,4-Trichlorobenzene	0.7089	0.6989	1.4	TM	
92	TM	Hexachlorobutadiene	0.6635	0.6757	1.8	TM	
93	TM	Naphthalene	1.799	1.866	3.7	TM	
94	TM	1,2,3-Trichlorobenzene	0.9535	0.9676	1.5	TM	
95							
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			2.8		

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T16W.D Vial: 16
Acq On : 31 Jan 12 17:19 Operator:
Sample : 10ug/L VOC STd 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	719680	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	585920	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	313664	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	336769	32.58094 ppb	0.00
Spiked Amount 32.661			Recovery	= 99.755%	
36) 1,2-DCA-D4(S)	6.34	65	349129	31.08667 ppb	0.00
Spiked Amount 30.896			Recovery	= 100.620%	
56) Toluene-D8(S)	8.45	98	1224415	33.14567 ppb	0.00
Spiked Amount 33.937			Recovery	= 97.669%	
64) 4-Bromofluorobenzene(S)	11.06	95	468346	33.64552 ppb	0.00
Spiked Amount 33.154			Recovery	= 101.485%	

$\frac{10998}{719680} \times 0.3740 \times 10 \cdot 2$

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.29	85	89564	11.21221 ppb	98
3) Freon 114	1.41	85	50403	11.09422 ppb	99
4) Chloromethane	1.45	50	106768	10.00367 ppb	100
5) Vinyl chloride	1.56	62	109981	10.21622 ppb	98
6) Bromomethane	1.86	94	65345	9.06680 ppb	98
7) Chloroethane	1.97	64	70333	10.40737 ppb	97
8) Dichlorofluoromethane	2.18	67	174707	10.11322 ppb	99
9) Trichlorofluoromethane	2.24	101	141301	10.42316 ppb	96
10) Acrolein	2.71	55	20054	127.02861 ppb	91
11) Acetone	2.91	43	23610	12.59050 ppb# M	88
12) Freon-113	2.86	101	71637	10.79114 ppb	97
13) 1,1-DCE	2.82	61	62096	10.19895 ppb	97
14) t-Butanol	3.74	59	25048	124.38159 ppb	97
15) Methyl Acetate	3.37	43	57897	10.11987 ppb	97
16) Iodomethane	2.98	142	87578	8.48623 ppb	97
17) Acrylonitrile	3.83	52	20144	10.49839 ppb	85
18) Methylene chloride	3.46	84	68155	10.59929 ppb	95
19) Carbon disulfide	3.06	76	116656	10.61586 ppb	99
20) Methyl t-butyl ether (MtBE	3.94	73	221074	10.12953 ppb	97
21) Trans-1,2-DCE	3.88	96	49004	10.23125 ppb	99
22) Diisopropyl Ether	4.73	59	32655	9.90468 ppb	95
23) 1,1-DCA	4.52	63	132028	10.19227 ppb	98
24) Vinyl Acetate	4.73	87	82694	10.40893 ppb	90
25) Ethyl tert Butyl Ether	5.23	59	241555	10.04766 ppb	99
26) MEK (2-Butanone)	5.41	43	27447	10.63570 ppb	97
27) Cis-1,2-DCE	5.34	96	85966	10.18157 ppb	100
28) 2,2-Dichloropropane	5.33	77	99475	9.31084 ppb	94
29) Chloroform	5.77	83	152077	9.83024 ppb	98
30) Bromochloromethane	5.64	128	39045	9.80342 ppb	92
32) 1,1,1-TCA	5.97	97	115661	10.19004 ppb	100
33) Cyclohexane	6.05	41	56531	9.74447 ppb	96
34) 1,1-Dichloropropene	6.18	75	76375	10.43801 ppb	98
35) 2,2,4-Trimethylpentane	6.56	57	220184	10.42797 ppb	99
37) Carbon Tetrachloride	6.18	117	88828	10.47575 ppb	98
38) Tert Amyl Methyl Ether	6.61	73	223735	9.84640 ppb	99
39) 1,2-DCA	6.43	62	106301	10.21815 ppb	99
40) Benzene	6.41	78	279043	9.96737 ppb	99
41) TCE	7.16	95	79501	10.00694 ppb	99
42) 2-Pentanone	7.39	43	617253	123.57049 ppb	98

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

0131T16W.D TALLW.M Wed Feb 01 11:14:30 2012 Page 1

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T16W.D Vial: 16
Acq On : 31 Jan 12 17:19 Operator:
Sample : 10ug/L VOC STd 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	1,2-Dichloropropane	7.39	63	93646	9.99175 ppb	98
44)	Bromodichloromethane	7.69	83	121967	10.18024 ppb	100
45)	Methyl Cyclohexane	7.37	83	113485	10.54894 ppb	99
46)	Dibromomethane	7.51	93	50452	9.99904 ppb	97
48)	MIBK (methyl isobutyl ket	9.20	43	25509	9.94712 ppb	92
49)	1-Bromo-2-chloroethane	8.00	63	66016	9.45933 ppb	99
50)	Cis-1,3-Dichloropropene	8.17	75	125914	10.09966 ppb	97
51)	Toluene	8.51	91	353987	9.95313 ppb	99
52)	Trans-1,3-Dichloropropene	8.74	75	111210	10.33716 ppb	98
53)	1,1,2-TCA	8.92	83	68934	10.00710 ppb	100
54)	2-Hexanone	9.20	43	42575	10.50953 ppb	93
57)	1,2-EDB	9.41	107	74975	9.75574 ppb	97
58)	Tetrachloroethene	9.07	166	93508	10.27357 ppb	99
59)	1-Chlorohexane	9.92	91	121473	9.98153 ppb	98
60)	1,1,1,2-Tetrachloroethane	10.00	131	95367	9.87663 ppb	98
61)	m&p-Xylene	10.16	106	338989	20.03580 ppb	99
62)	o-Xylene	10.55	106	169332	9.98328 ppb	100
63)	Styrene	10.56	104	287957	9.99814 ppb	93
65)	1,3-Dichloropropane	9.08	76	130751	9.90556 ppb	96
66)	Dibromochloromethane	9.31	129	91159	10.03674 ppb	97
67)	Chlorobenzene	9.92	112	269287	9.84306 ppb	98
68)	Ethylbenzene	10.04	91	444569	9.97741 ppb	100
69)	Bromoform	10.73	173	57358	10.07319 ppb	93
71)	Isopropylbenzene	10.93	105	432993	10.11334 ppb	100
72)	1,1,2,2-Tetrachloroethane	11.21	83	93787	10.17781 ppb	97
73)	1,2,3-Trichloropropane	11.24	110	27909	9.70983 ppb	100
74)	t-1,4-Dichloro-2-Butene	11.26	53	19799	9.47195 ppb	87
75)	Bromobenzene	11.21	156	126261	9.74127 ppb	99
76)	n-Propylbenzene	11.33	91	533125	10.12423 ppb	99
77)	4-Ethyltoluene	11.45	105	312973	10.29009 ppb	98
78)	2-Chlorotoluene	11.41	91	363635	10.29199 ppb	97
79)	1,3,5-Trimethylbenzene	11.51	105	386835	10.22515 ppb	100
80)	4-Chlorotoluene	11.52	91	366907	10.20250 ppb	99
81)	Tert-Butylbenzene	11.84	119	352772	9.90839 ppb	98
82)	1,2,4-Trimethylbenzene	11.88	105	388107	10.26378 ppb	99
83)	Sec-Butylbenzene	12.05	105	493854	10.29183 ppb	99
84)	p-Isopropyltoluene	12.20	119	413025	10.15273 ppb	99
85)	Benzyl Chloride	12.37	91	104095	9.34941 ppb	98
86)	1,3-DCB	12.15	146	235977	10.01269 ppb	98
87)	1,4-DCB	12.24	146	239442	10.07698 ppb	99
88)	n-Butylbenzene	12.61	91	362298	10.46328 ppb	100
89)	1,2-DCB	12.61	146	223906	10.08736 ppb	97
90)	Hexachloroethane	12.87	117	64973	9.98782 ppb	97
91)	1,2-Dibromo-3-chloropropan	13.37	157	10676	8.91388 ppb	93
92)	1,2,4-Trichlorobenzene	14.21	180	87688	9.85868 ppb	99
93)	Hexachlorobutadiene	14.40	225	84773	10.18360 ppb	95
94)	Naphthalene	14.45	128	234072	10.36784 ppb	100
95)	1,2,3-Trichlorobenzene	14.70	180	121404	10.14765 ppb	99

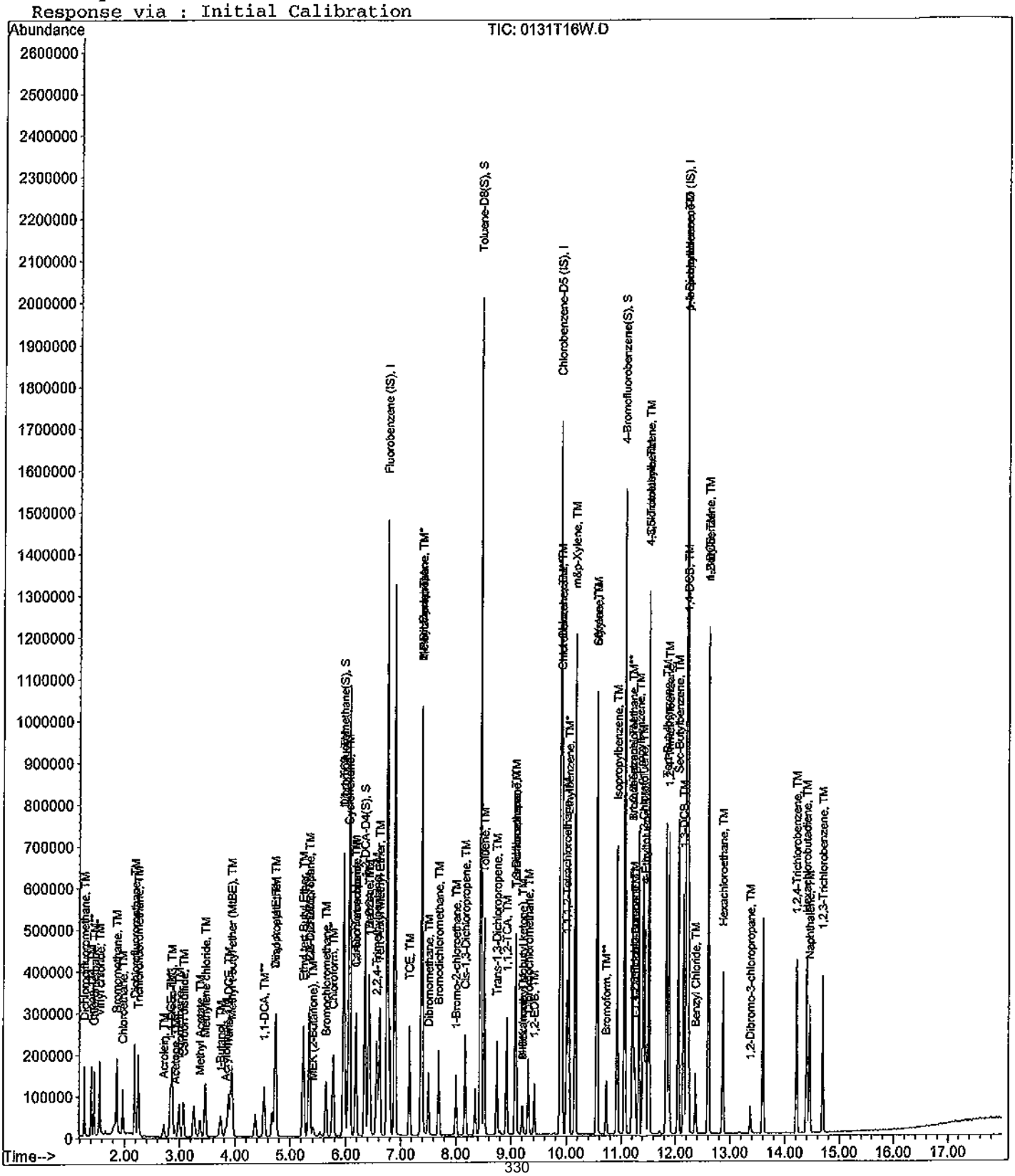
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T16W.D Vial: 16
Acq On : 31 Jan 12 17:19 Operator:
Sample : 10ug/L VOC STd 1-31-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66826
Date Analyzed: 1 Feb 12 9:54
Instrument: Thor
Initial Cal. Date: 01/31/12
Data File: 0201T02W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	0.2775	0.3216	16	TM	
3	TM	Freon 114	0.1578	0.1855	18	TM	
4	TM**	Chloromethane	0.3708	0.3728	0.55	TM**	
5	TM*	Vinyl chloride	0.3740	0.3726	0.36	TM*	
6	TM	Bromomethane	0.2504	0.2039	19	TM	
7	TML	Chloroethane	0.2134	0.2444	15	TML	4.1
8	TM	Dichlorofluoromethane	0.6001	0.6152	2.5	TM	
9	TM	Trichlorofluoromethane	0.4709	0.5065	7.6	TM	
10	TM	Acrolein	0.0055	0.0048	13	TM	
11	TML	Acetone	0.1234	0.0752	39	TML	14
12	TM	Freon-113	0.2306	0.2526	9.5	TM	
13	TM*	1,1-DCE	0.2115	0.2090	1.2	TM*	
14	TM	t-Butanol	0.0070	0.0066	5.5	TM	
15	TML	Methyl Acetate	0.3032	0.1920	37	TML	3.5
16	TML	Iodomethane	0.2942	0.3431	17	TML	5.9
17	TM	Acrylonitrile	0.0667	0.0659	1.1	TM	
18	TML	Methylene chloride	0.2935	0.2312	21	TML	3.5
19	TM	Carbon disulfide	0.3817	0.4088	7.1	TM	
20	TM	Methyl t-butyl ether (MtBE)	0.7581	0.7294	3.8	TM	
21	TM	Trans-1,2-DCE	0.1664	0.1693	1.8	TM	
22	TM	Diisopropyl Ether	0.1145	0.1133	1.1	TM	
23	TM**	1,1-DCA	0.4500	0.4565	1.4	TM**	
24	TM	Vinyl Acetate	0.2760	0.2690	2.5	TM	
25	TM	Ethyl tert Butyl Ether	0.8351	0.8312	0.46	TM	
26	TML	MEK (2-Butanone)	0.1099	0.0913	17	TML	2.1
27	TM	Cis-1,2-DCE	0.2933	0.2944	0.37	TM	
28	TM	2,2-Dichloropropane	0.3711	0.4022	8.4	TM	
29	TM*	Chloroform	0.5374	0.5348	0.48	TM*	
30	TM	Bromochloromethane	0.1384	0.1334	3.6	TM	
31	S	Dibromofluoromethane(S)	0.3591	0.3669	2.2	S	
32	TM	1,1,1-TCA	0.3943	0.4077	3.4	TM	
33	TM	Cyclohexane	0.2015	0.2039	1.2	TM	
34	TM	1,1-Dichloropropene	0.2542	0.2636	3.7	TM	
35	TM	2,2,4-Trimethylpentane	0.7335	0.8569	17	TM	
36	S	1,2-DCA-D4(S)	0.3901	0.3836	1.7	S	
37	TM	Carbon Tetrachloride	0.2946	0.3182	8.0	TM	
38	TM	Tert Amyl Methyl Ether	0.7893	0.7712	2.3	TM	
39	TM	1,2-DCA	0.3614	0.3526	2.4	TM	
40	TM	Benzene	0.9725	0.9696	0.30	TM	
		Average			8.0		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No: 66826
Case No: Date Analyzed: 1 Feb 12 9:54
Matrix: Water Instrument: Thor
Cal. Date: 01/31/12
Data File: 0201T02W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	TCE	0.2760	0.2762	0.10	TM	
42	TM	2-Pentanone	0.1735	0.1635	5.8	TM	
43	TM*	1,2-Dichloropropane	0.3256	0.3142	3.5	TM*	
44	TM	Bromodichloromethane	0.4162	0.4191	0.69	TM	
45	TM	Methyl Cyclohexane	0.3737	0.4081	9.2	TM	
46	TM	Dibromomethane	0.1753	0.1687	3.8	TM	
47	TM	MIBK (methyl isobutyl ketone)	0.0891	0.0830	6.8	TM	
48	TM	1-Bromo-2-chloroethane	0.2424	0.2262	6.7	TM	
49	TM	Cis-1,3-Dichloropropene	0.4331	0.4444	2.6	TM	
50	TM*	Toluene	1.235	1.250	1.2	TM*	
51	TM	Trans-1,3-Dichloropropene	0.3737	0.3915	4.8	TM	
52	TM	1,1,2-TCA	0.2393	0.2343	2.1	TM	
53	TML	2-Hexanone	0.1787	0.1323	26	TML	4.8
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	1.576	1.557	1.2	S	
56	TM	1,2-EDB	0.3279	0.3082	6.0	TM	
57	TM	Tetrachloroethene	0.3884	0.3987	2.7	TM	
58	TML	1-Chlorohexane	0.5744	0.5459	5.0	TML	5.0
59	TM	1,1,1,2-Tetrachloroethane	0.4120	0.4083	0.90	TM	
60	TM	m&p-Xylene	0.7219	0.7276	0.79	TM	
61	TM	o-Xylene	0.7237	0.7328	1.3	TM	
62	TM	Styrene	1.229	1.239	0.84	TM	
63	S	4-Bromofluorobenzene(S)	0.5939	0.6186	4.1	S	
64	TM	1,3-Dichloropropane	0.5632	0.5378	4.5	TM	
65	TM	Dibromochloromethane	0.3875	0.3736	3.6	TM	
66	TM**	Chlorobenzene	1.167	1.147	1.8	TM**	
67	TM*	Ethylbenzene	1.901	1.900	0.04	TM*	
68	TM**	Bromoform	0.2430	0.2362	2.8	TM**	
69	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
70	TM	Isopropylbenzene	3.412	3.303	3.2	TM	
71	TM**	1,1,2,2-Tetrachloroethane	0.7345	0.7116	3.1	TM**	
72	TM	1,2,3-Trichloropropane	0.2291	0.2049	11	TM	
73	TM	t-1,4-Dichloro-2-Butene	0.1666	0.1559	6.4	TM	
74	TM	Bromobenzene	1.033	0.9621	6.9	TM	
75	TM	n-Propylbenzene	4.197	4.135	1.5	TM	
76	TM	4-Ethyltoluene	2.424	2.418	0.27	TM	
77	TM	2-Chlorotoluene	2.816	2.743	2.6	TM	
78	TM	1,3,5-Trimethylbenzene	3.015	2.966	1.6	TM	
79	TM	4-Chlorotoluene	2.866	2.865	0.06	TM	
80	TM	Tert-Butylbenzene	2.838	2.726	3.9	TM	
		Average			3.9		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66826
Date Analyzed: 1 Feb 12 9:54
Instrument: Thor
Cal. Date: 01/31/12
Data File: 0201T02W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	1,2,4-Trimethylbenzene	3.014	2.973	1.4	TM	
82	TM	Sec-Butylbenzene	3.825	3.809	0.40	TM	
83	TM	p-Isopropyltoluene	3.242	3.234	0.25	TM	
84	TM	Benzyl Chloride	0.8874	1.052	19	TM	
85	TM	1,3-DCB	1.878	1.849	1.6	TM	
86	TM	1,4-DCB	1.894	1.859	1.9	TM	
87	TM	n-Butylbenzene	2.760	2.958	7.2	TM	
88	TM	1,2-DCB	1.769	1.739	1.7	TM	
89	TM	Hexachloroethane	0.5185	0.5121	1.2	TM	
90	TM	1,2-Dibromo-3-chloropropane	0.0955	0.0797	17	TM	
91	TM	1,2,4-Trichlorobenzene	0.7089	0.7587	7.0	TM	
92	TM	Hexachlorobutadiene	0.6635	0.6741	1.6	TM	
93	TM	Naphthalene	1.799	1.947	8.2	TM	
94	TM	1,2,3-Trichlorobenzene	0.9535	1.045	9.6	TM	
95							
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			5.6		

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0201T02W.D Vial: 2
Acq On : 1 Feb 12 9:54 Operator:
Sample : 10ug/L VOC STd 2-01-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.74	96	687936	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	562176	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	315840	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.95	111	329711	33.37001 ppb	-0.01
Spiked Amount 32.661			Recovery = 102.170%		
36) 1,2-DCA-D4(S)	6.34	65	326154	30.38102 ppb	-0.01
Spiked Amount 30.896			Recovery = 98.335%		
56) Toluene-D8(S)	8.44	98	1188078	33.52039 ppb	0.00
Spiked Amount 33.937			Recovery = 98.772%		
64) 4-Bromofluorobenzene(S)	11.06	95	461154	34.52808 ppb	0.00
Spiked Amount 33.154			Recovery = 104.145%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.27	85	88508	11.59129 ppb	99
3) Freon 114	1.39	85	51056	11.75652 ppb	98
4) Chloromethane	1.43	50	102582	10.05497 ppb	99
5) Vinyl chloride	1.54	62	102532	9.96376 ppb	99
6) Bromomethane	1.84	94	56108	8.14437 ppb	98
7) Chloroethane	1.95	64	67263	10.41224 ppb	90
8) Dichlorofluoromethane	2.16	67	169286	10.25160 ppb	99
9) Trichlorofluoromethane	2.23	101	139380	10.75588 ppb	99
10) Acrolein	2.69	55	16376	108.51749 ppb	89
11) Acetone	2.89	43	20686	11.39987 ppb	96
12) Freon-113	2.84	101	69507	10.95342 ppb	99
13) 1,1-DCE	2.80	61	57516	9.88261 ppb	98
14) t-Butanol	3.71	59	22736	118.11050 ppb	99
15) Methyl Acetate	3.34	43	52843	9.64856 ppb	94
16) Iodomethane	2.96	142	94414	9.41244 ppb	97
17) Acrylonitrile	3.81	52	18138	9.88912 ppb	94
18) Methylene chloride	3.44	84	63627	10.34722 ppb	100
19) Carbon disulfide	3.05	76	112484	10.70854 ppb	98
20) Methyl t-butyl ether (MtBE	3.92	73	200716	9.62111 ppb	97
21) Trans-1,2-DCE	3.86	96	46592	10.17654 ppb	93
22) Diisopropyl Ether	4.71	59	31171	9.89083 ppb	94
23) 1,1-DCA	4.51	63	125607	10.14402 ppb	99
24) Vinyl Acetate	4.72	87	74030	9.74835 ppb	99
25) Ethyl tert Butyl Ether	5.22	59	228738	9.95356 ppb	99
26) MEK (2-Butanone)	5.39	43	25134	10.20950 ppb	96
27) Cis-1,2-DCE	5.33	96	81006	10.03684 ppb	94
28) 2,2-Dichloropropane	5.32	77	110677	10.83736 ppb	99
29) Chloroform	5.76	83	147173	9.95223 ppb	98
30) Bromochloromethane	5.63	128	36714	9.64351 ppb	99
32) 1,1,1-TCA	5.96	97	112200	10.34125 ppb	96
33) Cyclohexane	6.04	41	56099	10.11622 ppb	99
34) 1,1-Dichloropropene	6.17	75	72542	10.37163 ppb	94
35) 2,2,4-Trimethylpentane	6.55	57	235793	11.68252 ppb	98
37) Carbon Tetrachloride	6.17	117	87547	10.80110 ppb	99
38) Tert Amyl Methyl Ether	6.60	73	212228	9.77097 ppb	98
39) 1,2-DCA	6.43	62	97024	9.75676 ppb	100
40) Benzene	6.41	78	266815	9.97037 ppb	98
41) TCE	7.15	95	76015	10.00967 ppb	96
42) 2-Pentanone	7.38	43	562363	117.77679 ppb	99

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0201T02W.D Vial: 2
Acq On : 1 Feb 12 9:54 Operator:
Sample : 10ug/L VOC STd 2-01-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43) 1,2-Dichloropropane	7.38	63	86450	9.64959 ppb	#	96
44) Bromodichloromethane	7.69	83	115318	10.06941 ppb		99
45) Methyl Cyclohexane	7.37	83	112307	10.92116 ppb		99
46) Dibromomethane	7.50	93	46411	9.62260 ppb		98
48) MIBK (methyl isobutyl ket	9.20	43	22838	9.31651 ppb		99
49) 1-Bromo-2-chloroethane	8.00	63	62240	9.32979 ppb		98
50) Cis-1,3-Dichloropropene	8.17	75	122298	10.26228 ppb		95
51) Toluene	8.51	91	343900	10.11570 ppb		100
52) Trans-1,3-Dichloropropene	8.74	75	107728	10.47557 ppb		99
53) 1,1,2-TCA	8.91	83	64461	9.78956 ppb		97
54) 2-Hexanone	9.20	43	36406	9.51558 ppb		97
57) 1,2-EDB	9.41	107	69307	9.39911 ppb		99
58) Tetrachloroethene	9.07	166	89663	10.26720 ppb		98
59) 1-Chlorohexane	9.92	91	122766	10.49570 ppb		98
60) 1,1,1,2-Tetrachloroethane	10.00	131	91809	9.90973 ppb		100
61) m&p-Xylene	10.16	106	327222	20.15717 ppb		98
62) o-Xylene	10.55	106	164793	10.12602 ppb		94
63) Styrene	10.56	104	278673	10.08446 ppb		96
65) 1,3-Dichloropropane	9.08	76	120932	9.54863 ppb		99
66) Dibromochloromethane	9.31	129	84013	9.64063 ppb		96
67) Chlorobenzene	9.92	112	257832	9.82240 ppb		98
68) Ethylbenzene	10.04	91	427355	9.99616 ppb		99
69) Bromoform	10.73	173	53111	9.72128 ppb		99
71) Isopropylbenzene	10.92	105	417325	9.68023 ppb		100
72) 1,1,2,2-Tetrachloroethane	11.21	83	89895	9.68823 ppb		94
73) 1,2,3-Trichloropropane	11.24	110	25885	8.94361 ppb		96
74) t-1,4-Dichloro-2-Butene	11.26	53	19701	9.36014 ppb		96
75) Bromobenzene	11.21	156	121552	9.31335 ppb		97
76) n-Propylbenzene	11.33	91	522461	9.85336 ppb		100
77) 4-Ethyltoluene	11.45	105	305441	9.97326 ppb		99
78) 2-Chlorotoluene	11.41	91	346581	9.74172 ppb		99
79) 1,3,5-Trimethylbenzene	11.51	105	374665	9.83523 ppb		99
80) 4-Chlorotoluene	11.51	91	361910	9.99421 ppb		99
81) Tert-Butylbenzene	11.84	119	344343	9.60501 ppb		97
82) 1,2,4-Trimethylbenzene	11.88	105	375588	9.86428 ppb		98
83) Sec-Butylbenzene	12.05	105	481270	9.96048 ppb		99
84) p-Isopropyltoluene	12.20	119	408626	9.97539 ppb		99
85) Benzyl Chloride	12.37	91	132899	11.85423 ppb		99
86) 1,3-DCB	12.15	146	233619	9.84434 ppb		96
87) 1,4-DCB	12.24	146	234832	9.81488 ppb		98
88) n-Butylbenzene	12.61	91	373754	10.71977 ppb		99
89) 1,2-DCB	12.61	146	219663	9.82802 ppb		97
90) Hexachloroethane	12.87	117	64695	9.87656 ppb		92
91) 1,2-Dibromo-3-chloropropan	13.37	157	10066	8.34666 ppb		99
92) 1,2,4-Trichlorobenzene	14.21	180	95848	10.70186 ppb		99
93) Hexachlorobutadiene	14.40	225	85164	10.16009 ppb		97
94) Naphthalene	14.45	128	245981	10.82027 ppb		99
95) 1,2,3-Trichlorobenzene	14.70	180	131990	10.95648 ppb		98

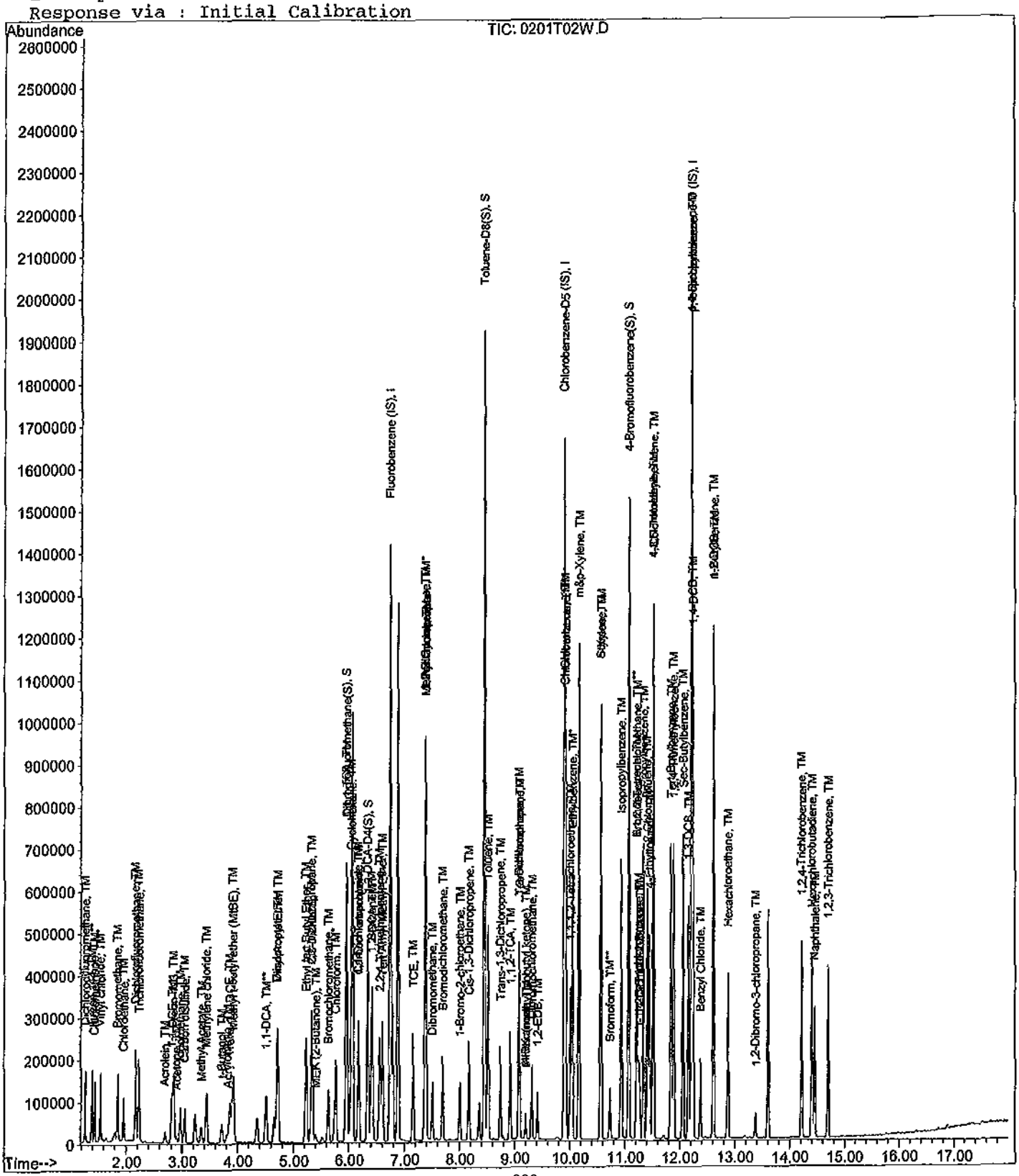
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0201T02W.D Vial: 2
Acq On : 1 Feb 12 9:54 Operator:
Sample : 10ug/L VOC STd 2-01-12 Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66876
Case No: Initial Cal. Date: 01/25/12
Matrix: Water Instrument: Chico
Initials:

			0125C29W.D	0125C30W.D	0125C31W.D	0125C32W.D	0125C33W.D	0125C34W.D	0125C35W.D							
		Compound	20	50	100	300	600	800	1000				Avg	%RSD		
1	I	Fluorobenzene (IS)														r
2	TMHBL	Gasoline	23.6	10.6	5.907	3.541	2.892	2.841	2.494				7.4	104	TMHBL	0.997
3	I	Chlorobenzene-D5 (IS)														
4	I	1,4-Dichlorobenzene-D (IS)														
5																
6																
7																
8																
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10																
11																
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337

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:41 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.80	TIC	998565	25.00000 ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	2063547	25.00000 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1276666	25.00000 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Gasoline	15.58	TIC	68624186m	598.65494 ppb	100

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

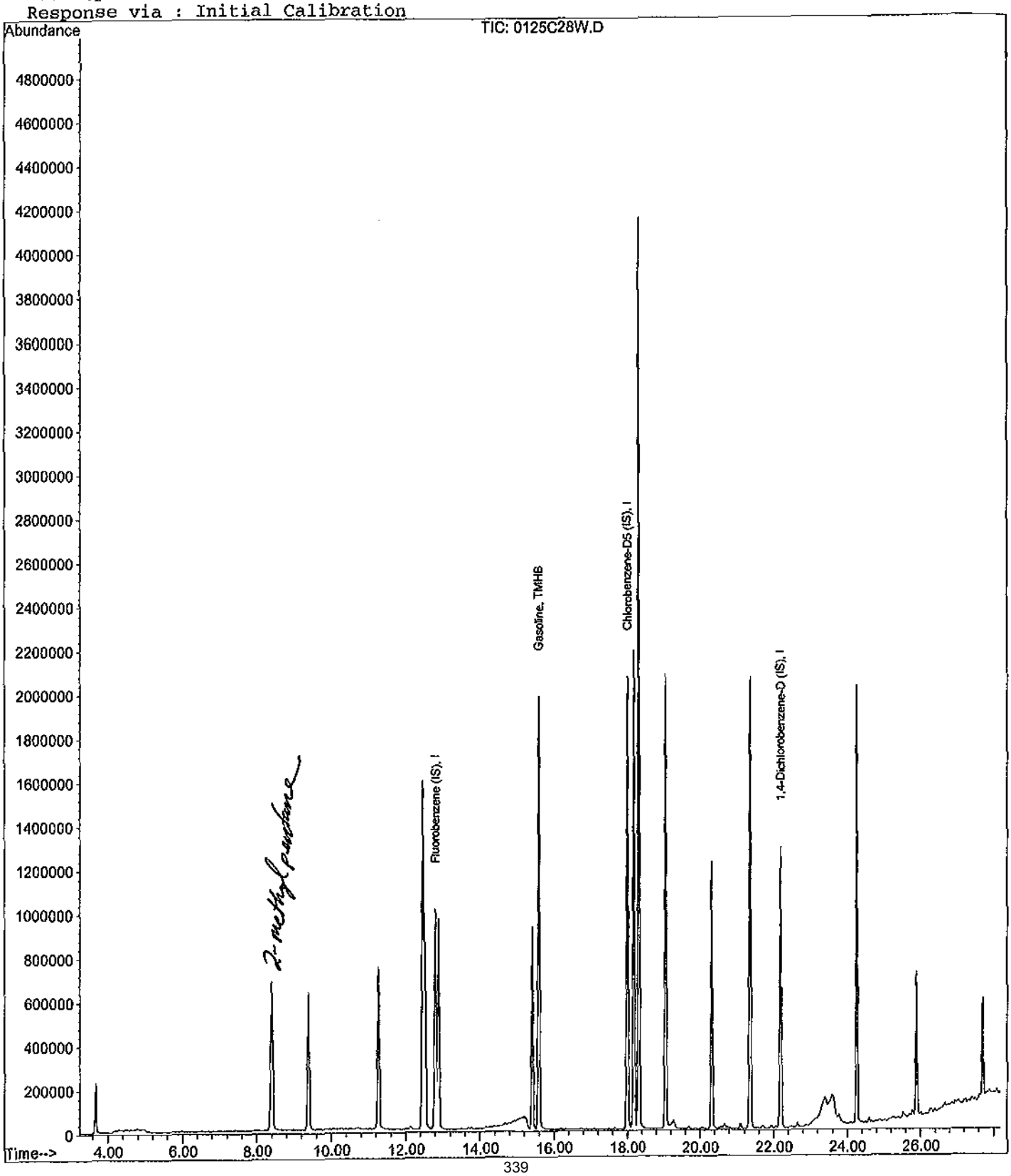
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C28W.D
Acq On : 26 Jan 12 18:55
Sample : VOC Mix Marker
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:41 2012 Quant Results File: CGAS.RES

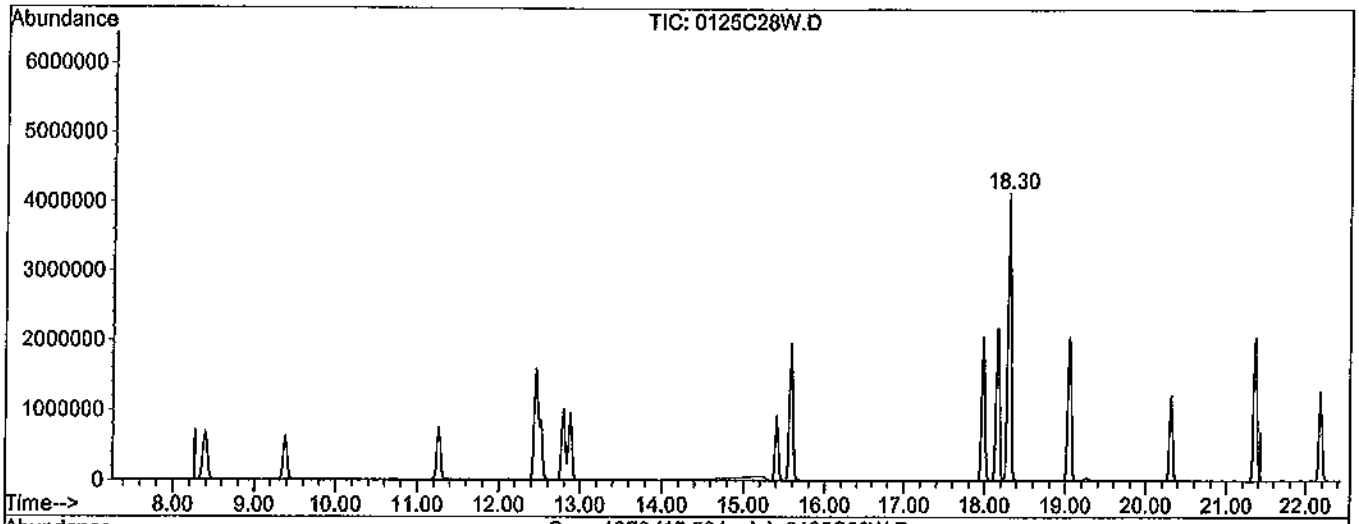
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

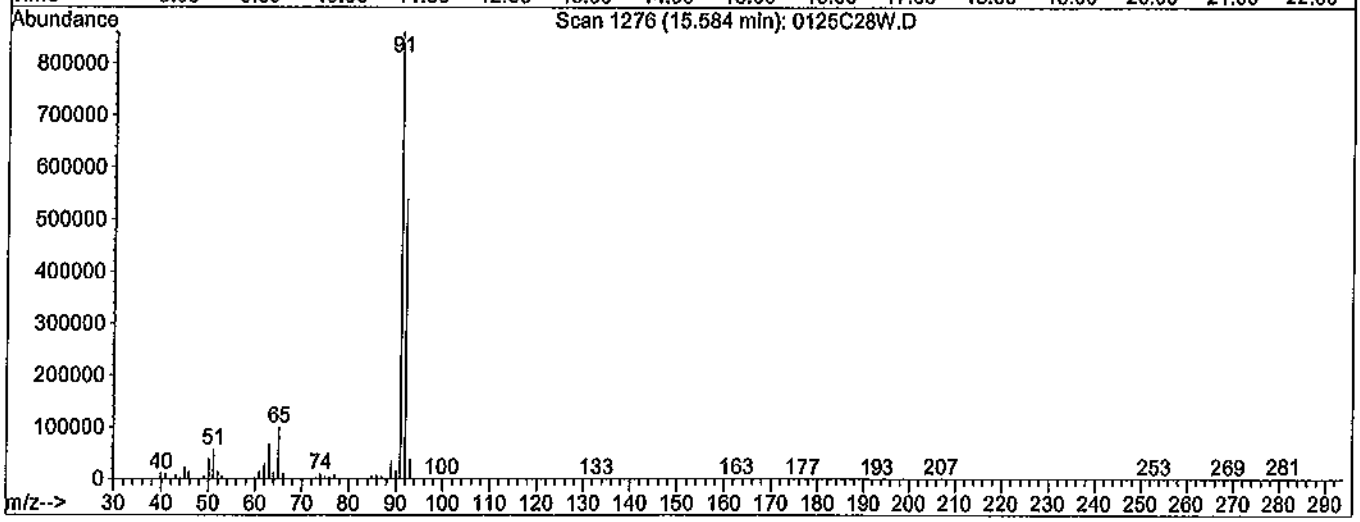


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:41 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0125C28W.D

(2) Gasoline (TMHB)

15.58min 598.6549ppb m

response 68624186

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.19#
0.00	0.00	0.54#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 11:40 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.80	96	514344	25.00000 ppb		0.03
54) Chlorobenzene-D5 (IS)	17.98	117	426880	25.00000 ppb		0.02
70) 1,4-Dichlorobenzene-D (IS)	22.18	152	243008	25.00000 ppb		0.02
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	814	0.05945 ppb		0.04
Spiked Amount 24.119			Recovery = 0.245%			
37) 1,2-DCA-D4(S)	12.18	65	952	0.09637 ppb		0.02
Spiked Amount 22.874			Recovery = 0.420%			
55) Toluene-D8(S)	15.46	98	5539	0.10268 ppb		0.03
Spiked Amount 24.755			Recovery = 0.416%			
63) 4-Bromofluorobenzene(S)	20.05	95	5181	0.27480 ppb		0.02
Spiked Amount 26.777			Recovery = 1.027%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.06	85	2596	0.82228 ppb		98
3) Freon 114	4.31	85	1957	0.24927 ppb		98
4) Chloromethane	4.53	50	497	-0.25189 ppb	#	1
5) Vinyl chloride	4.81	62	636	0.11072 ppb	#	55
6) Bromomethane	5.66	94	352	1.43494 ppb	#	48
7) Chloroethane	5.89	64	688	0.17146 ppb	#	88
9) Trichlorofluoromethane	6.48	103	598	0.15470 ppb	#	42
11) Acrolein	7.16	56	139	1.20103 ppb		81
12) Acetone	7.25	43	1756	0.17301 ppb	#	49
13) Freon-113	7.44	101	1265	0.10656 ppb		84
14) 1,1-DCE	7.63	96	2136	0.28441 ppb	#	17
15) t-Butanol	7.75	59	112	1.98451 ppb	#	80
17) Iodomethane	8.12	142	488	0.33050 ppb	#	43
18) Acrylonitrile	8.40	53	18247	12.53629 ppb	#	22
19) Methylene chloride	8.44	84	5961	-0.42807 ppb	#	1
20) Carbon disulfide	8.51	76	565	0.07522 ppb	#	75
22) Trans-1,2-DCE	9.06	96	3142	0.09631 ppb	#	9
25) Vinyl Acetate	9.38	43	108176	52.11193 ppb		98
27) MEK (2-Butanone)	10.41	43	403	0.27118 ppb	#	66
28) Cis-1,2-DCE	10.76	96	1544	0.11362 ppb	#	23
34) Cyclohexane	11.97	56	2103	0.11787 ppb		99
35) 1,1-Dichloropropene	12.09	75	2011	0.15580 ppb	#	45
36) 2,2,4-Trimethylpentane	12.13	57	18754	0.54048 ppb		99
38) Carbon Tetrachloride	12.23	117	80	0.91706 ppb	#	41
40) 1,2-DCA	12.45	62	18764	2.04942 ppb	#	75
41) Benzene	12.45	78	2517875	58.71375 ppb		98
42) TCE	13.49	95	1033	0.08724 ppb	#	57
43) 2-Pentanone	13.09	43	1444	0.49565 ppb	#	63
46) Methyl Cyclohexane	13.76	83	4236	0.25633 ppb		93
50) Cis-1,3-Dichloropropene	14.93	75	612	-0.23271 ppb		85
51) Toluene	15.58	91	2516540	49.99585 ppb		96
52) Trans-1,3-Dichloropropene	15.76	75	1112	0.10188 ppb	#	60
57) Tetrachloroethene	16.75	164	1780	0.15371 ppb	#	45
58) 1-Chlorohexane	17.66	91	4450	0.20898 ppb		89
60) m&p-Xylene	18.30	106	2213106	87.61936 ppb		97
61) o-Xylene	19.05	106	1078952	43.01267 ppb		93
62) Styrene	19.05	104	54491	1.45381 ppb	#	1
64) 2-Hexanone	16.02	43	394	0.17017 ppb	#	25
67) Chlorobenzene	18.06	112	2884	0.07867 ppb	#	48

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C28W.D
Acq On : 26 Jan 12 18:55
Sample : VOC Mix Marker
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 11:40 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
68) Ethylbenzene	18.17	91	2939246	43.94023 ppb		100
71) MIBK (methyl isobutyl keto	14.58	43	99	-0.18362 ppb	#	31
72) Isopropylbenzene	19.69	105	9228	0.12704 ppb		92
75) t-1,4-Dichloro-2-Butene	20.31	53	19055	11.41330 ppb	#	8
76) Bromobenzene	20.43	156	3594	0.20876 ppb	#	47
77) n-Propylbenzene	20.39	91	18116	0.20048 ppb		98
78) 4-Ethyltoluene	20.59	105	8271	0.15756 ppb		90
79) 2-Chlorotoluene	20.68	91	7547	0.13199 ppb	#	77
80) 1,3,5-Trimethylbenzene	20.66	105	19818	0.33532 ppb		92
81) 4-Chlorotoluene	20.77	91	9067	0.17883 ppb		97
82) Tert-Butylbenzene	21.36	119	276648	4.08833 ppb	#	71
83) 1,2,4-Trimethylbenzene	21.36	105	2161299	36.78081 ppb		97
84) Sec-Butylbenzene	21.70	105	18537	0.22205 ppb	#	76
85) p-Isopropyltoluene	21.93	119	13390	0.19972 ppb	#	89
86) Benzyl Chloride	22.37	91	1446	0.10670 ppb	#	90
87) 1,3-DCB	22.08	146	7950	0.23447 ppb		83
88) 1,4-DCB	22.25	146	8802	0.26702 ppb	#	79
89) Hexachloroethane	23.52	117	2736	0.90342 ppb	#	25
90) n-Butylbenzene	22.65	91	21345	0.34686 ppb	#	94
91) 1,2-DCB	22.88	146	6887	0.24229 ppb	#	79
92) 1,2-Dibromo-3-chloropropan	24.07	155	120	0.11615 ppb	#	46
93) 1,2,4-Trichlorobenzene	25.53	180	5653	0.69548 ppb		79
94) Hexachlorobutadiene	25.78	223	5853	0.53769 ppb	#	69
95) Naphthalene	25.89	128	857570	35.27522 ppb		99
96) 1,2,3-Trichlorobenzene	26.24	180	4574	0.69979 ppb		85

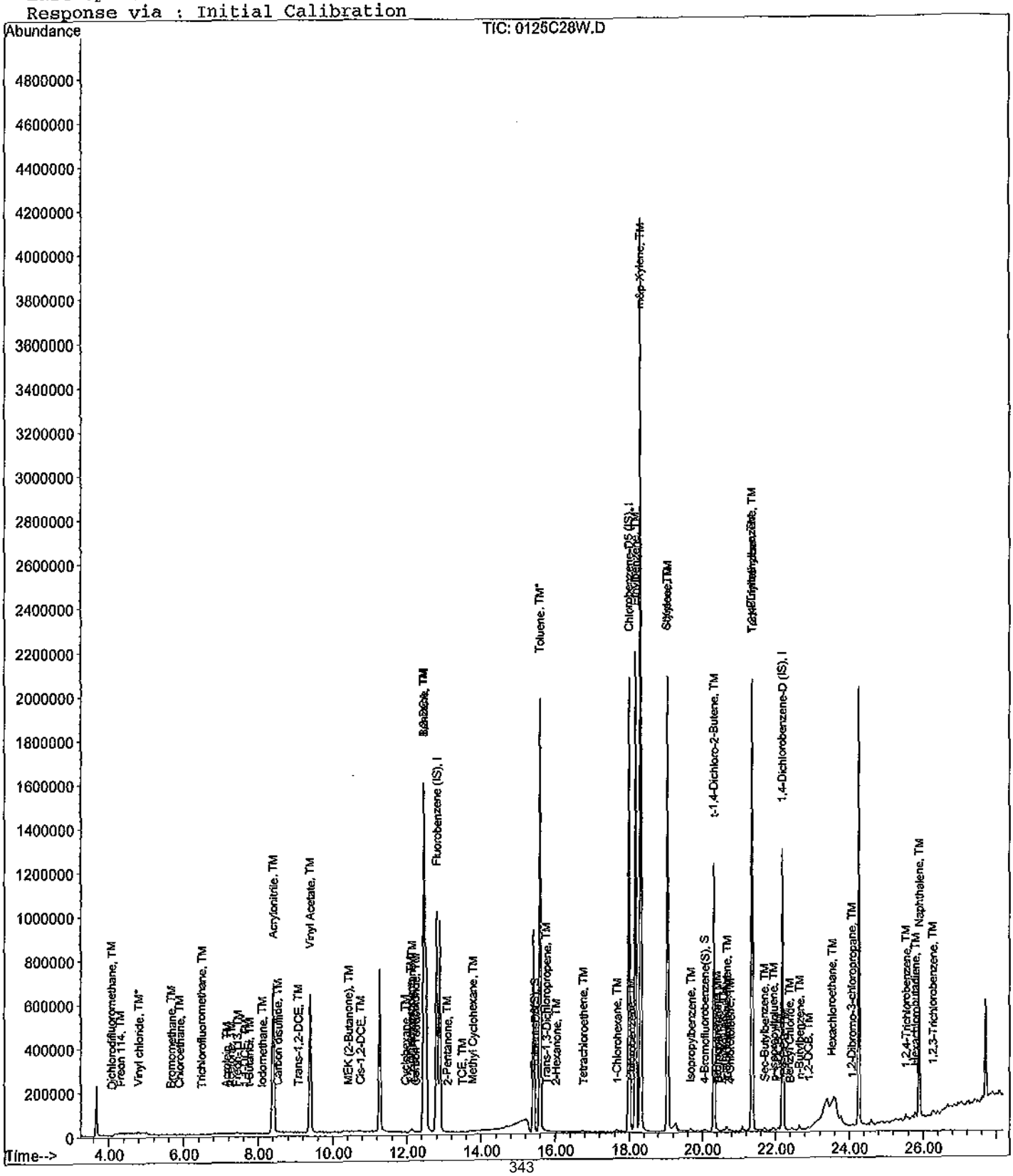
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 11:40 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:34 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:01:13 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1053352	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1266647	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1287754	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	17.98	TIC	19858101m	31.82421	ppb	100

(#) = qualifier out of range (m) = manual integration
0125C29W.D CGAS.M Tue Feb 07 09:38:01 2012 Page 1

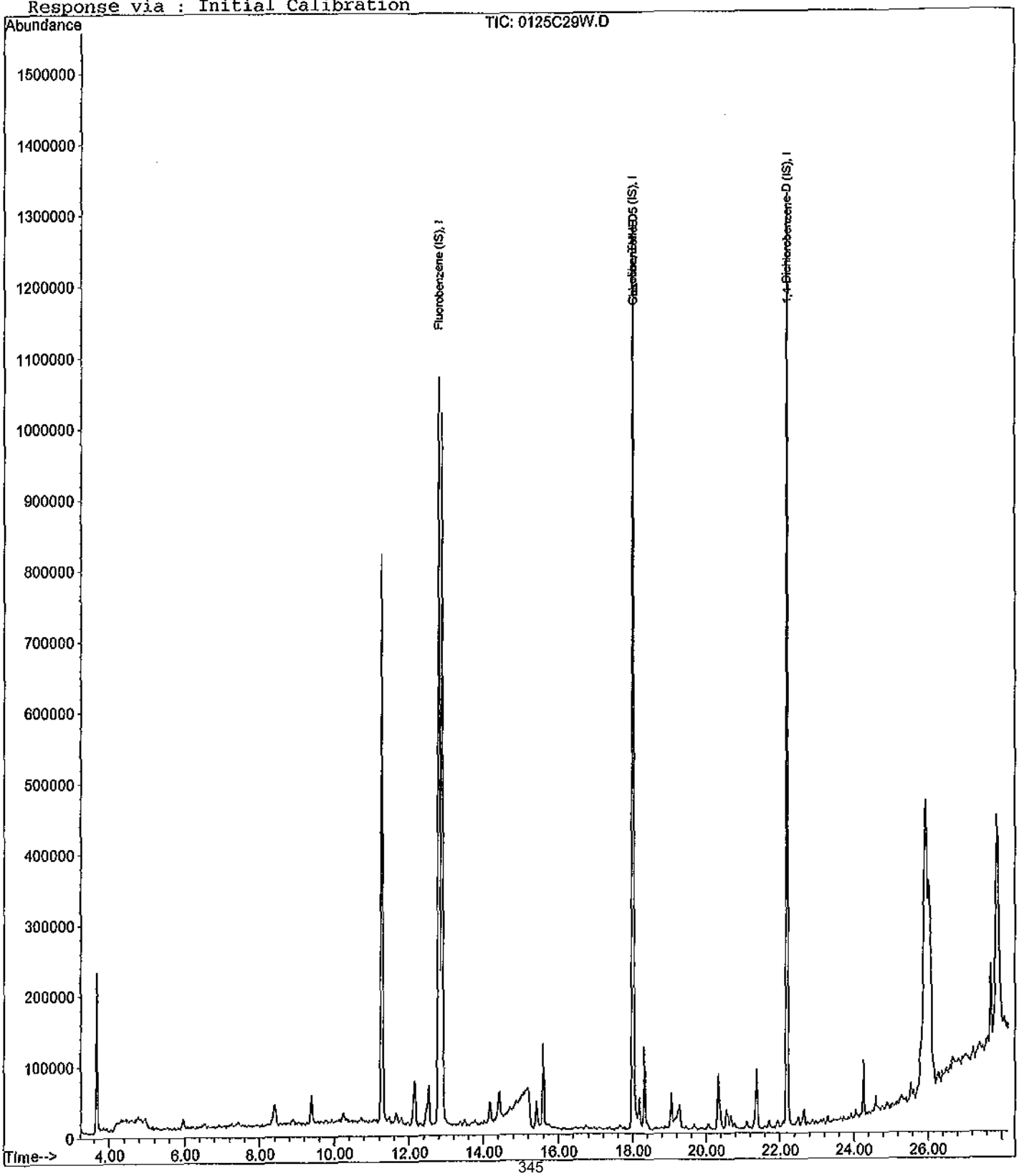
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D
Acq On : 26 Jan 12 19:32
Sample : Vol. Std. 01-26-12@20ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:34 2012 Quant Results File: CGAS.RES

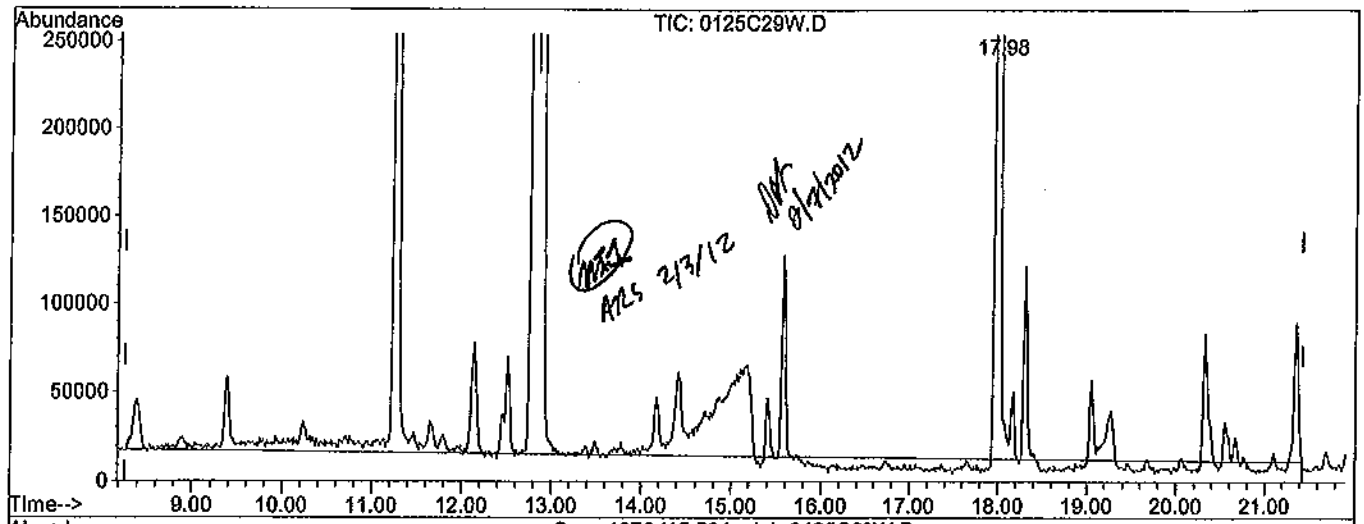
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

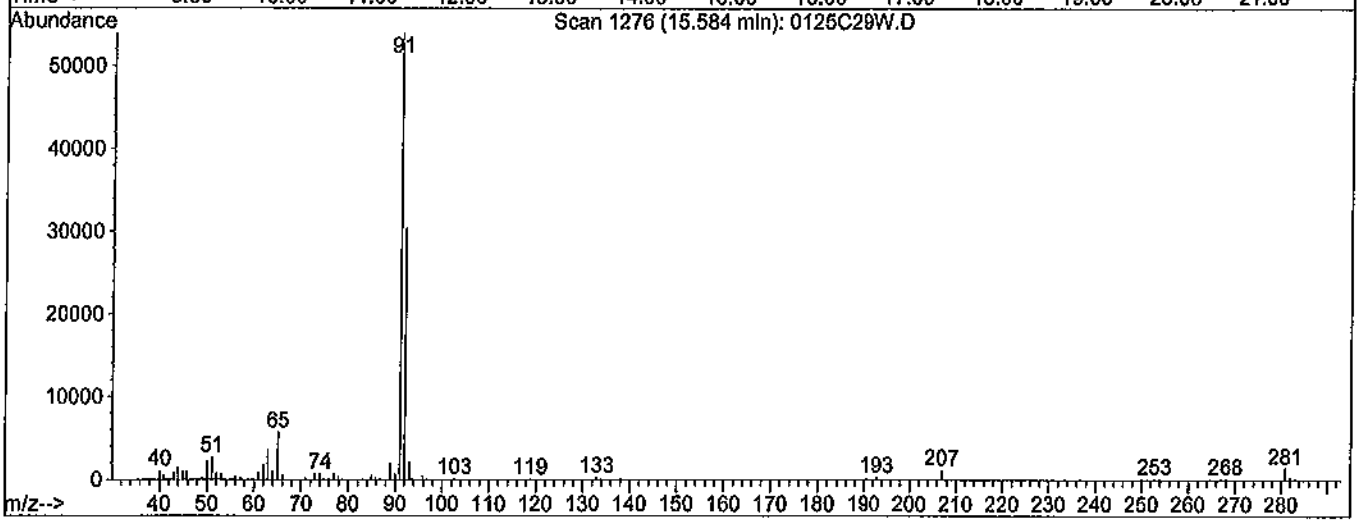


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C29W.D

(2) Gasoline (TMHB)

15.58min -8.2763ppb m

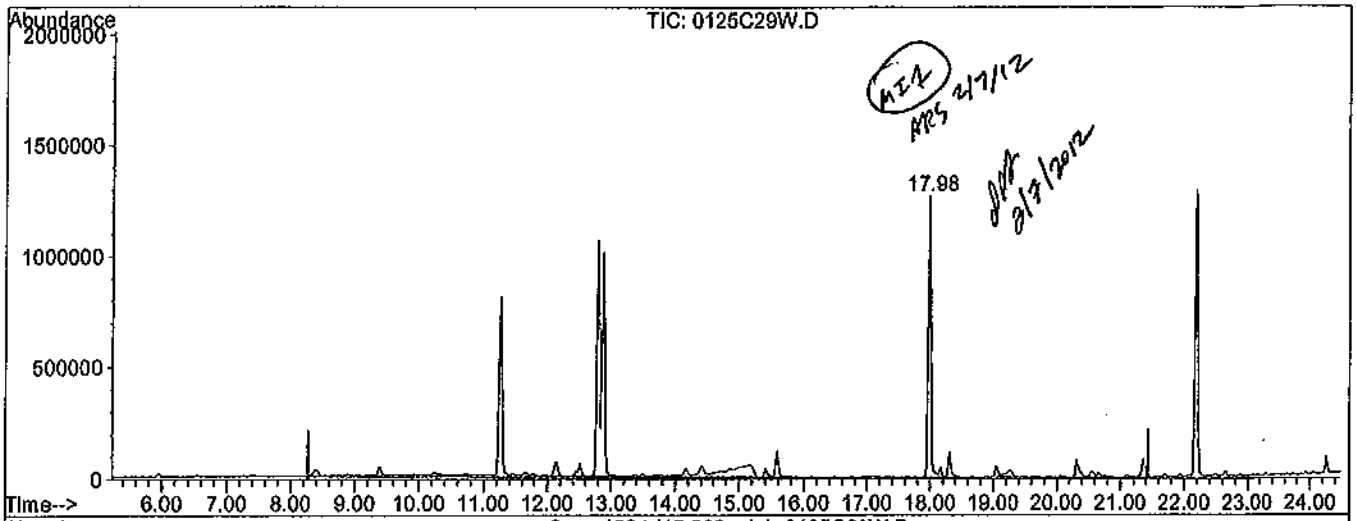
response 16152794

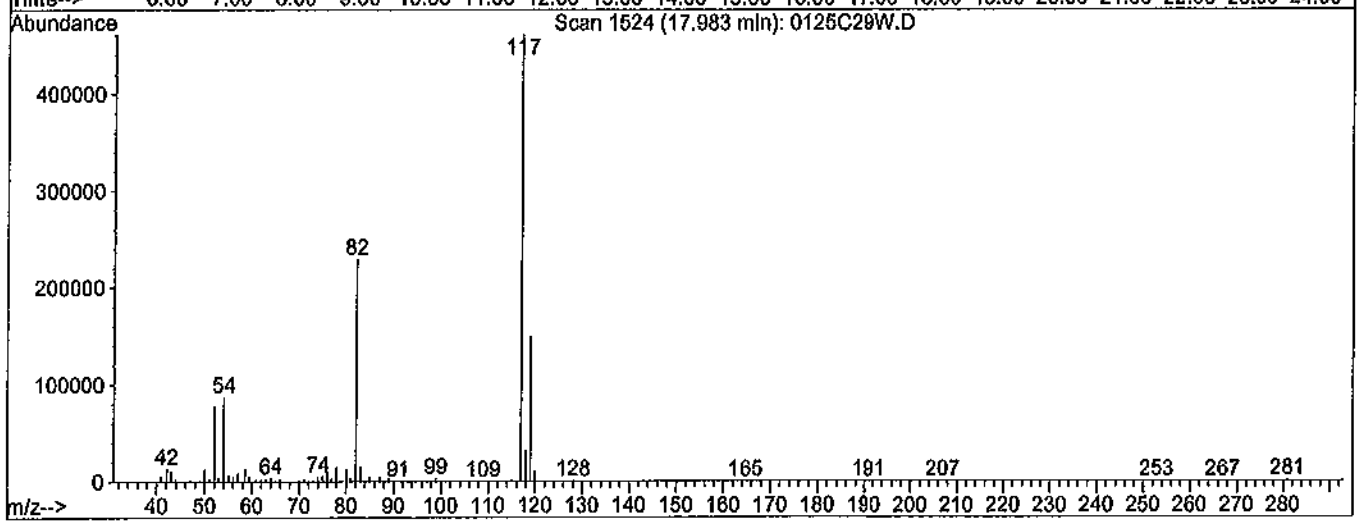
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.79#
0.00	0.00	2.40#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:34 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0125C29W.D

(2) Gasoline (TMHB)

17.98min 31.8242ppb m

response 19858101

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.64#
0.00	0.00	1.95#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:35 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1088272	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.99	TIC	1269196	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.19	TIC	1282230	25.00000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline	17.99	TIC	23136590m	59.27095	ppb	100

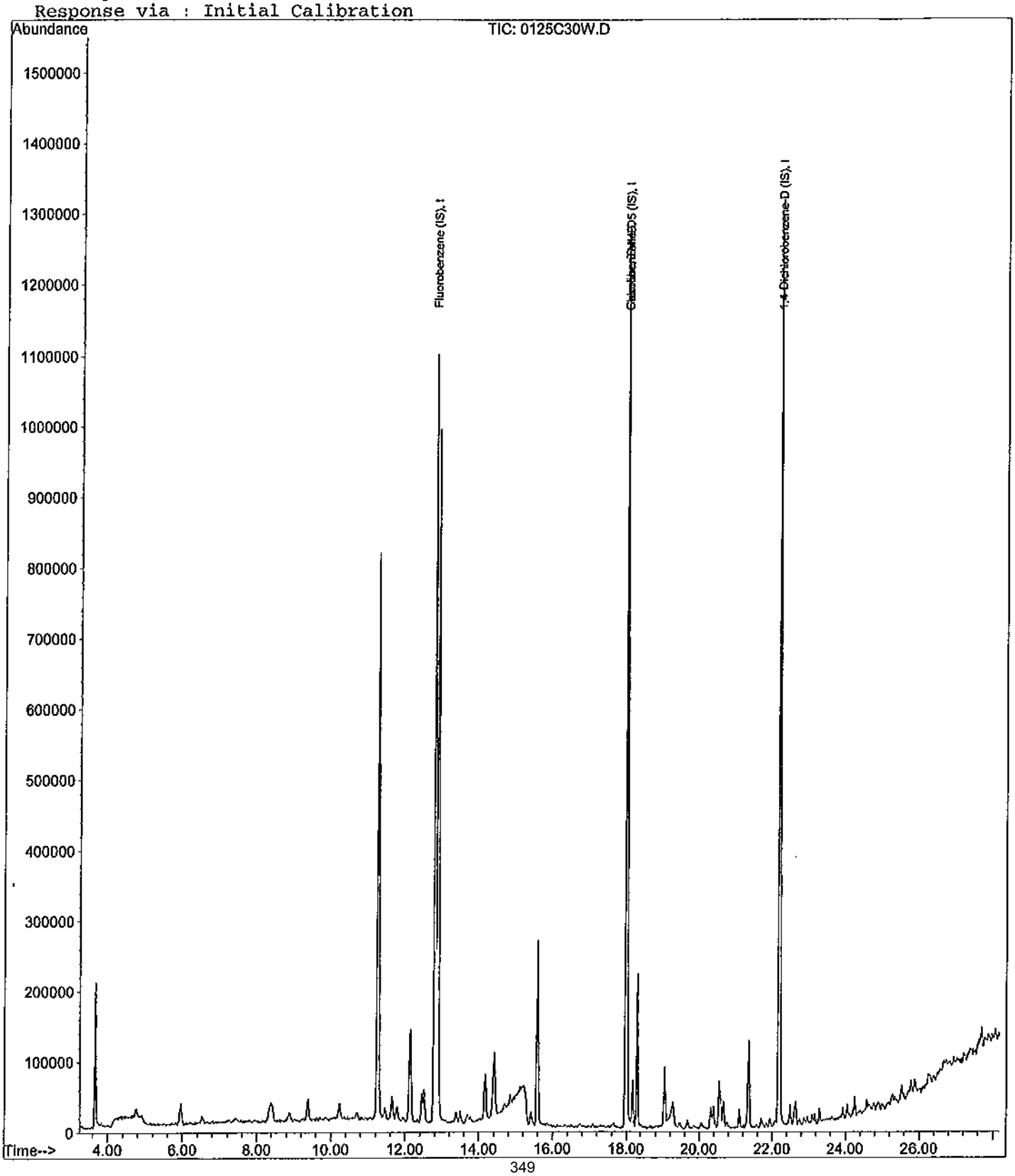
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:35 2012 Quant Results File: CGAS.RES

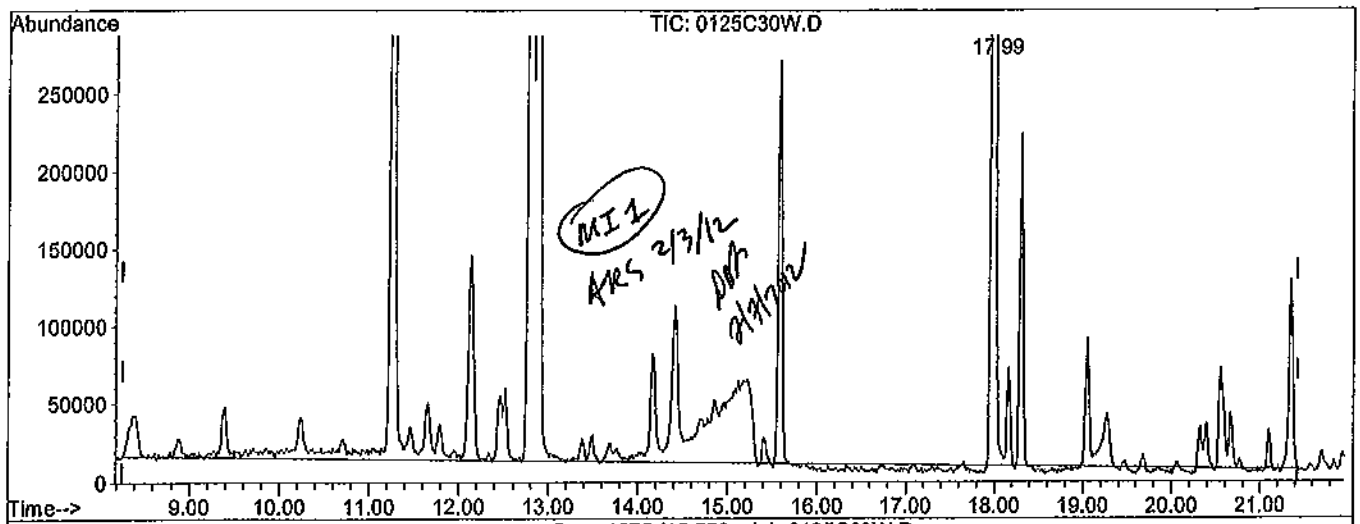
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

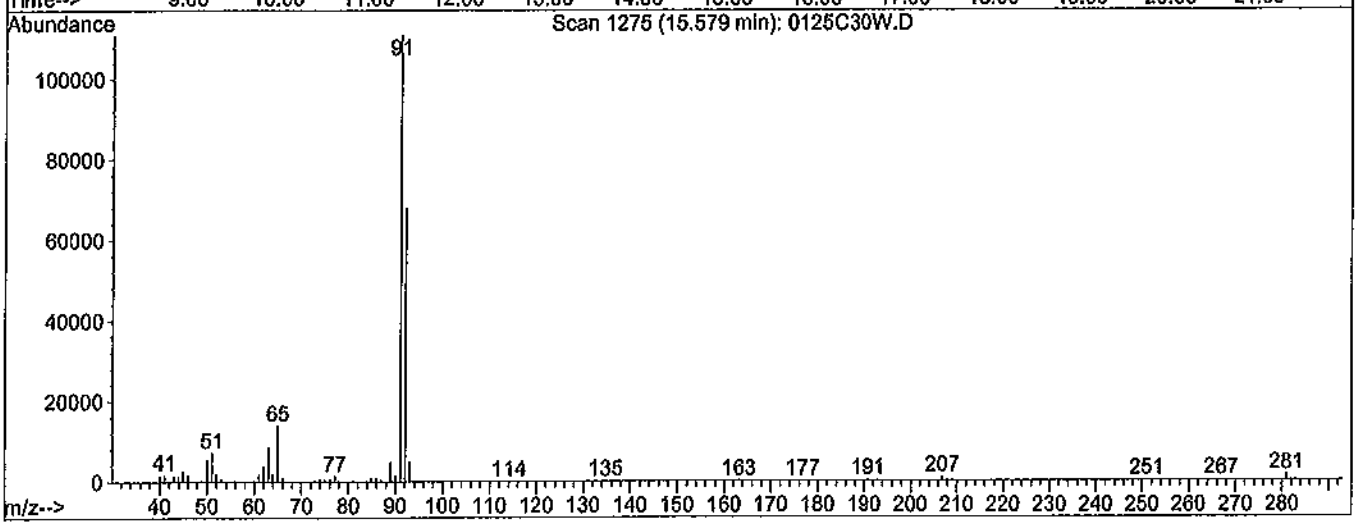


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C30W.D

(2) Gasoline (TMHB)

15.58min -0.0275ppb m

response 17475741

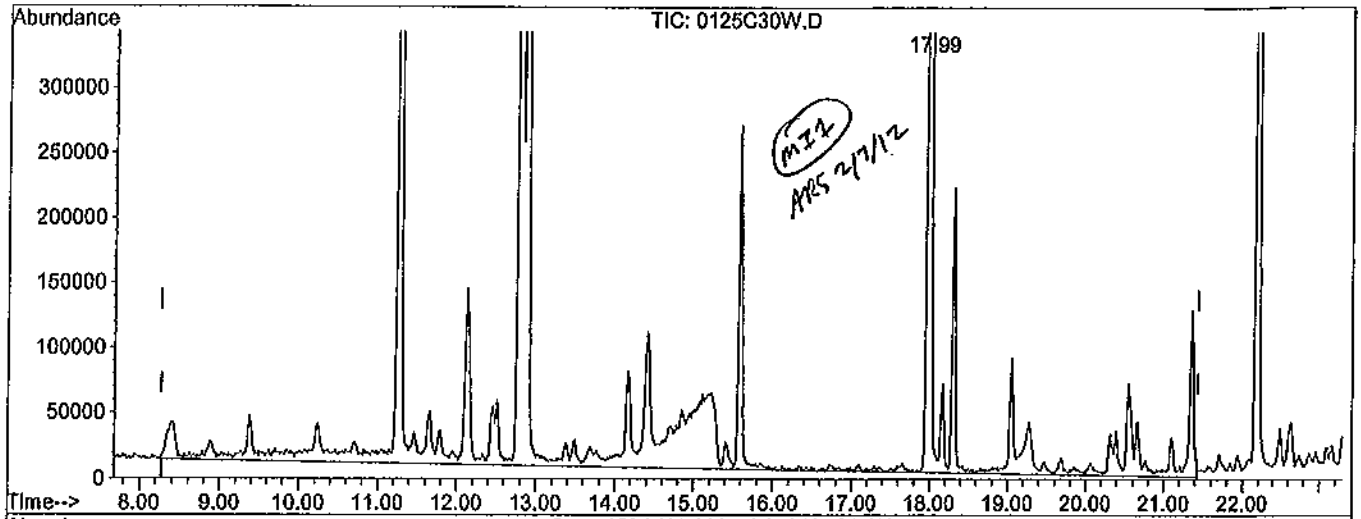
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.72#
0.00	0.00	2.18#
0.00	0.00	0.00

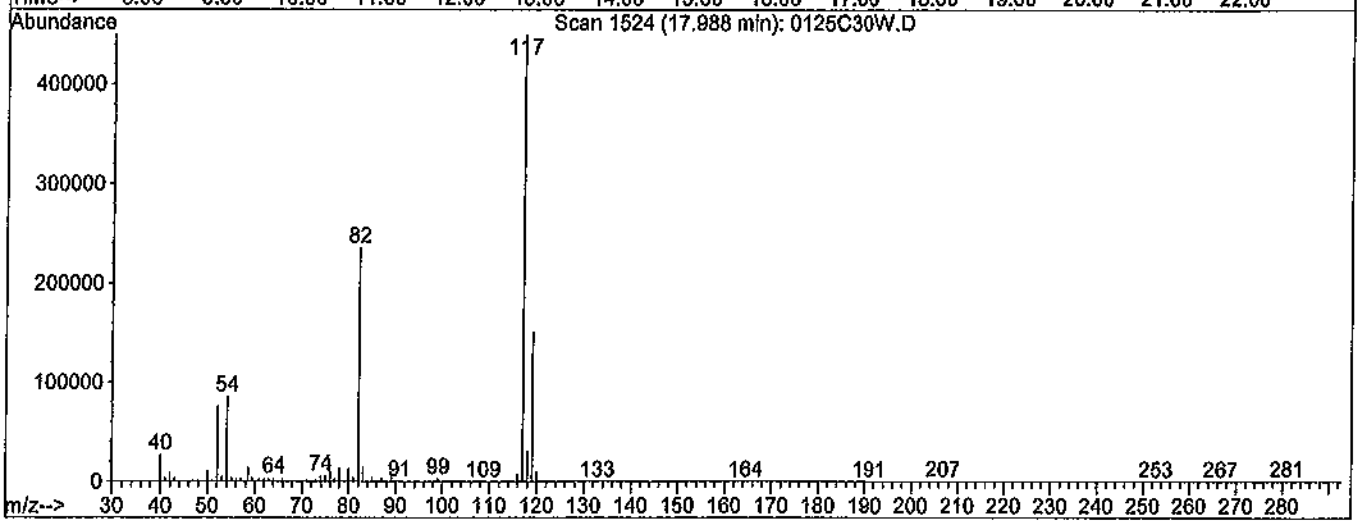
0125C30W.D CGAS.M Fri Feb 03 12:12:46 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:35 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C30W.D

(2) Gasoline (TMHB)

17.99min 59.2710ppb m

response 23136590

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.54#
0.00	0.00	1.65#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:13 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1080126	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1280154	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1288106	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	17.98	TIC	26257782m	94.04042	ppb	100

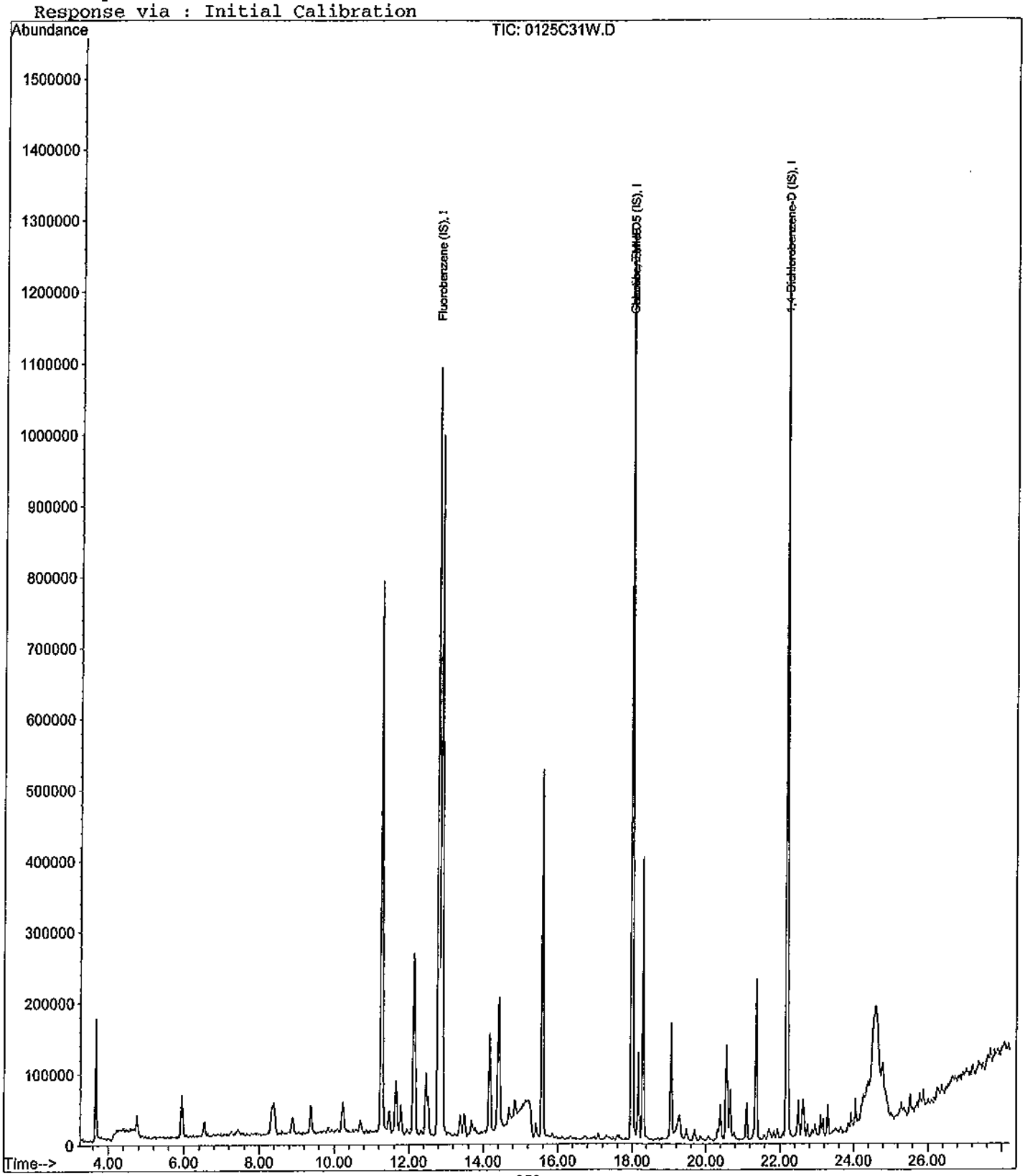
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:13 2012 Quant Results File: CGAS.RES

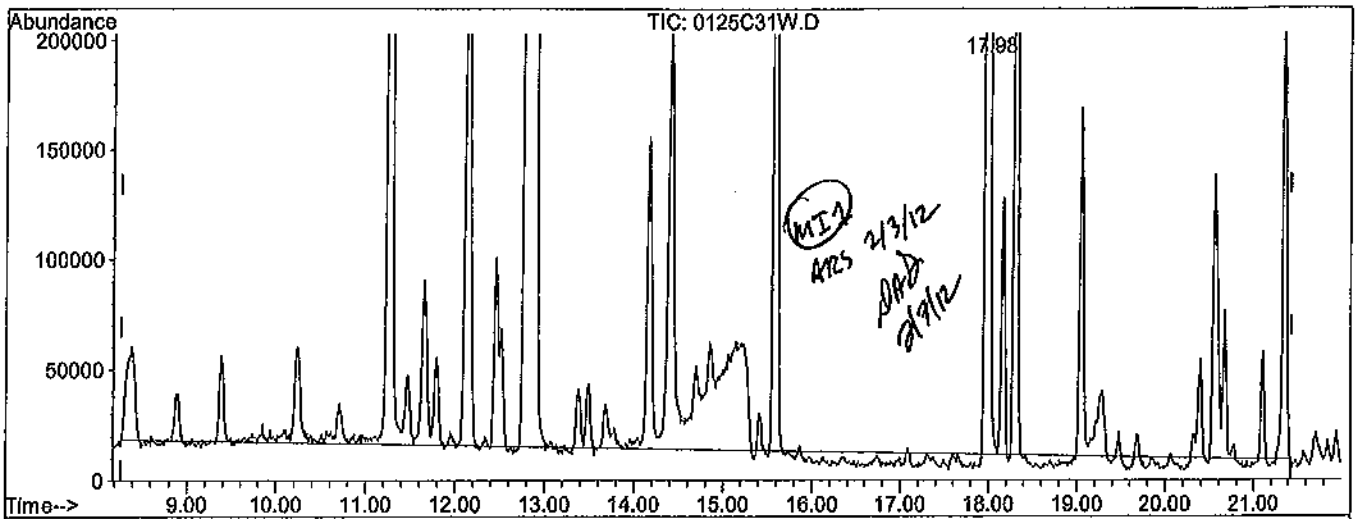
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

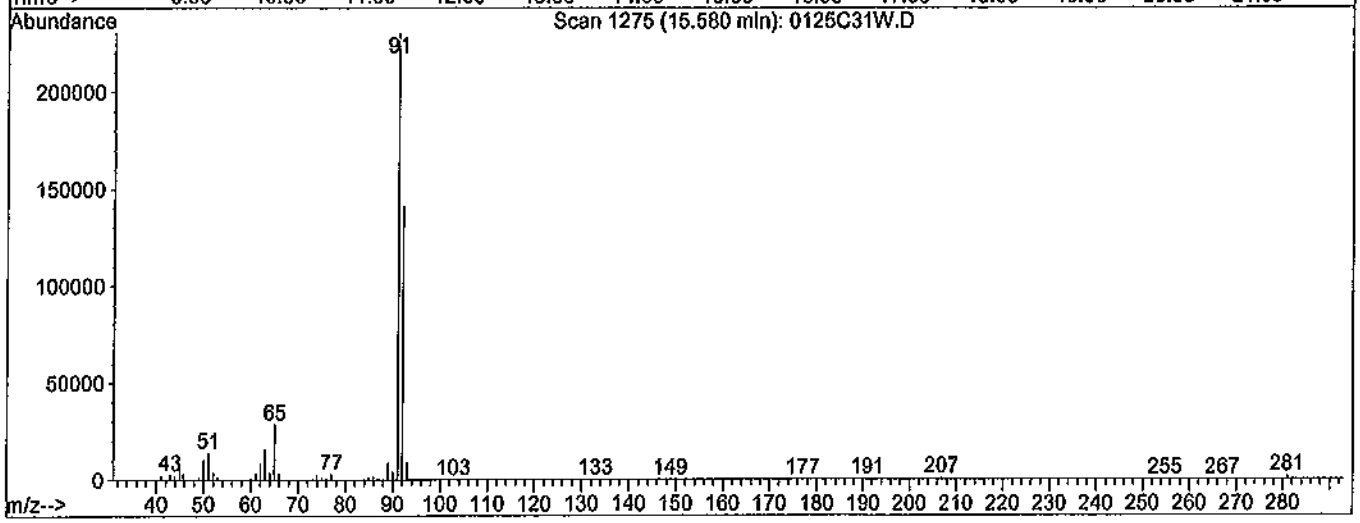


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C31W.D

(2) Gasoline (TMHB)

15.58min 27.4179ppb m

response 18945363

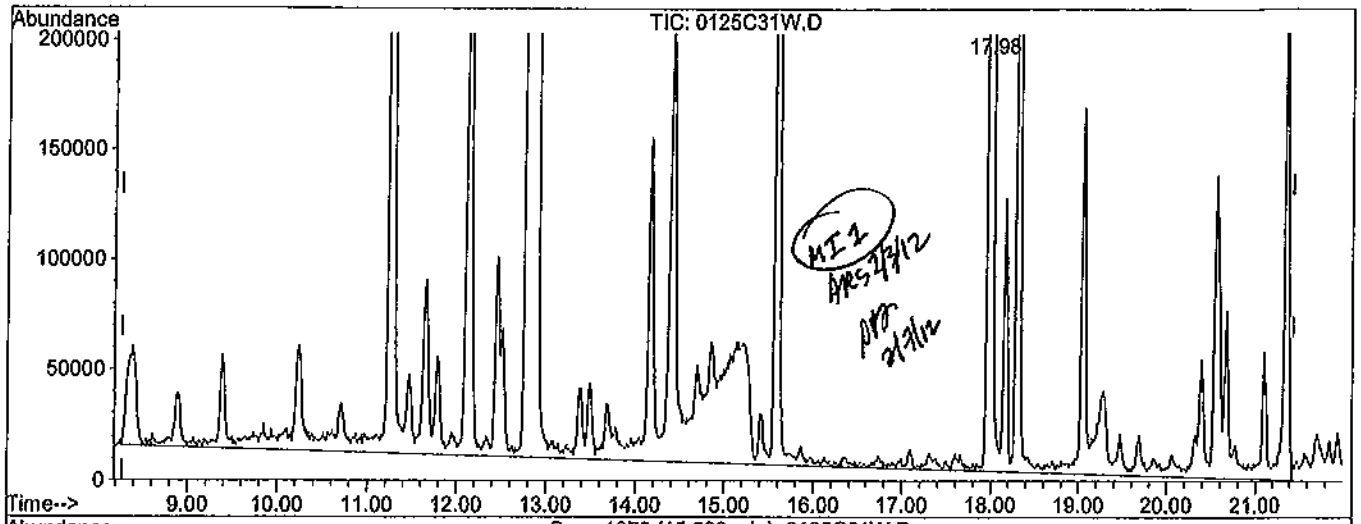
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.64#
0.00	0.00	1.85#
0.00	0.00	0.00

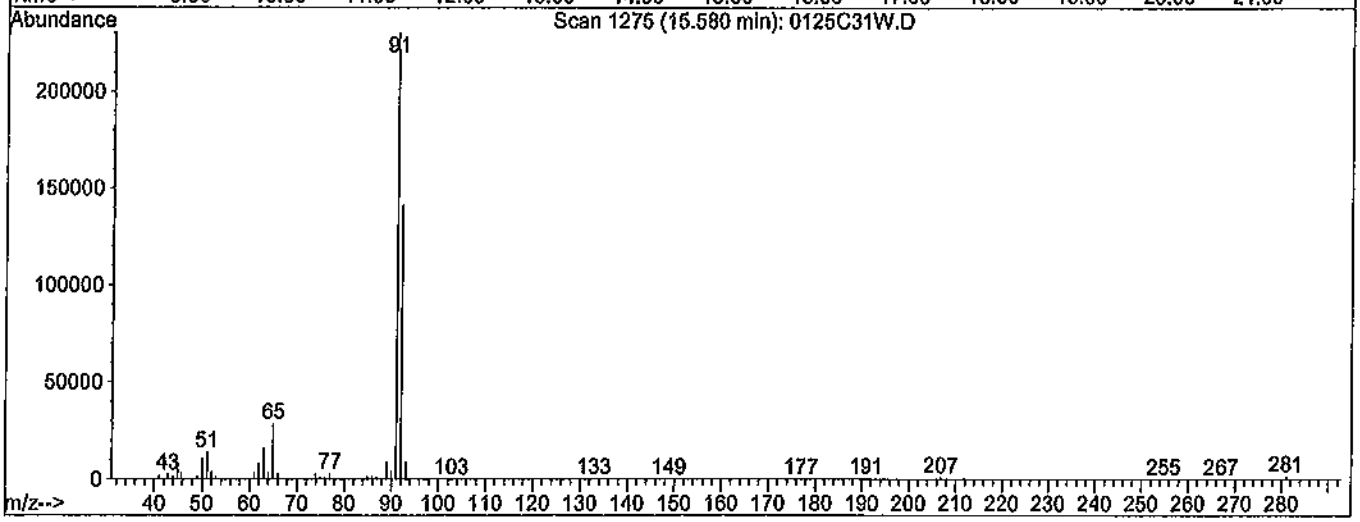
0125C31W.D CGAS.M Fri Feb 03 12:13:43 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:13 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C31W.D

(2) Gasoline (TMHB)

17.98min 94.0404ppb m

response 26257782

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.48#
0.00	0.00	1.40#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:09 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1085223	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1323772	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1382634	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	46451061m	304.86153	ppb	100

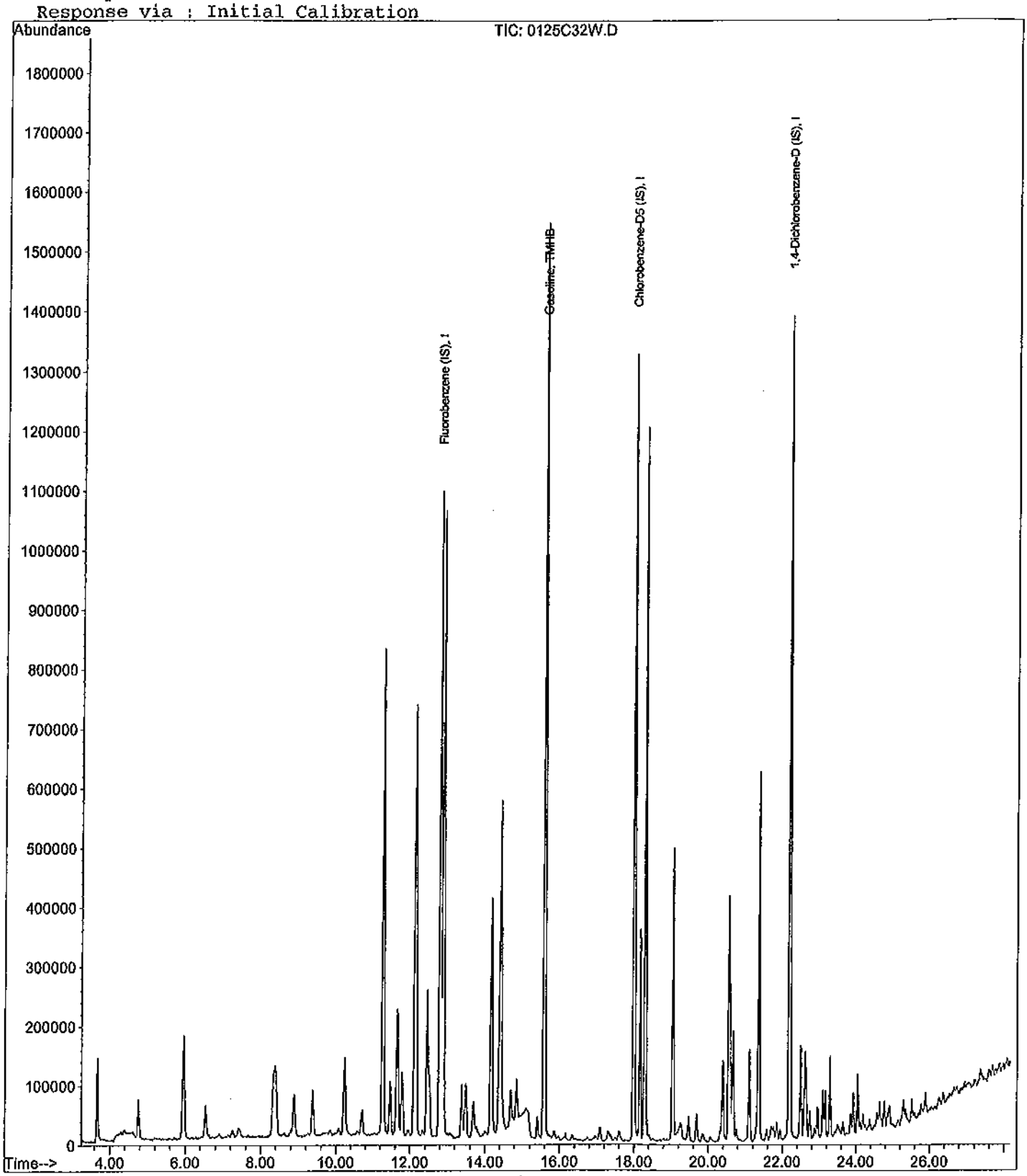
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:09 2012 Quant Results File: CGAS.RES

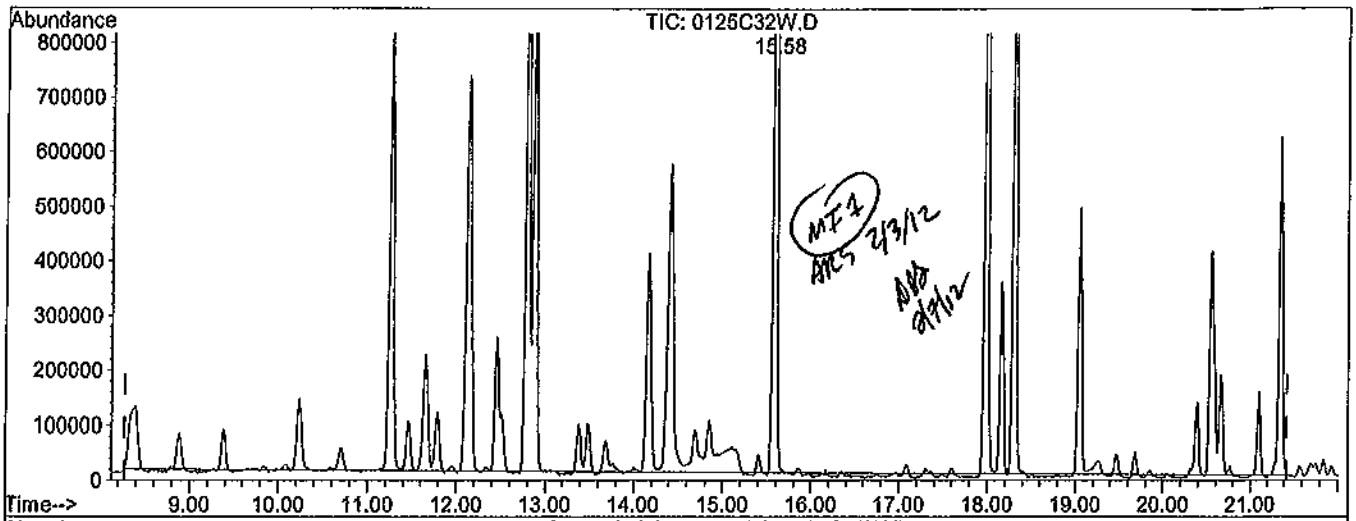
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

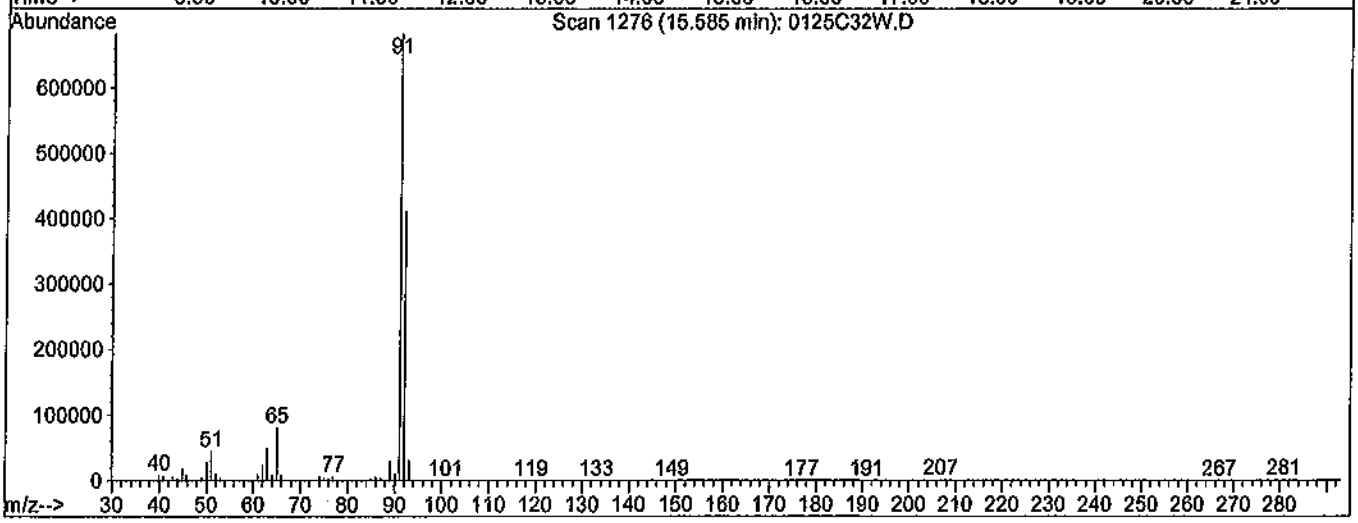


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C32W.D

(2) Gasoline (TMHB)

15.58min 245.6055ppb m

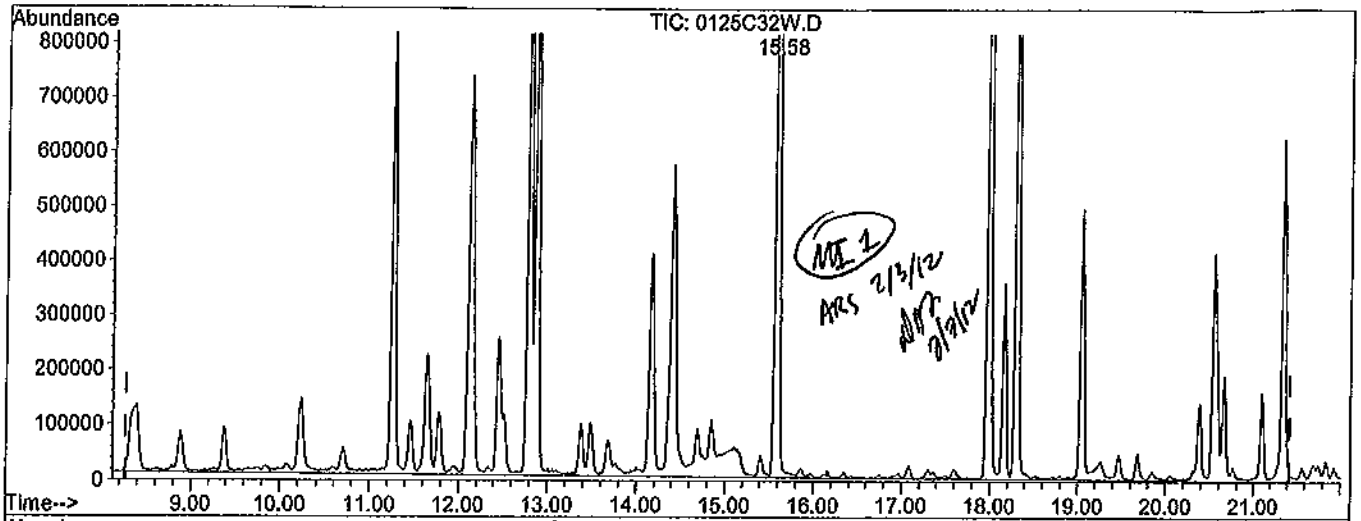
response 40810111

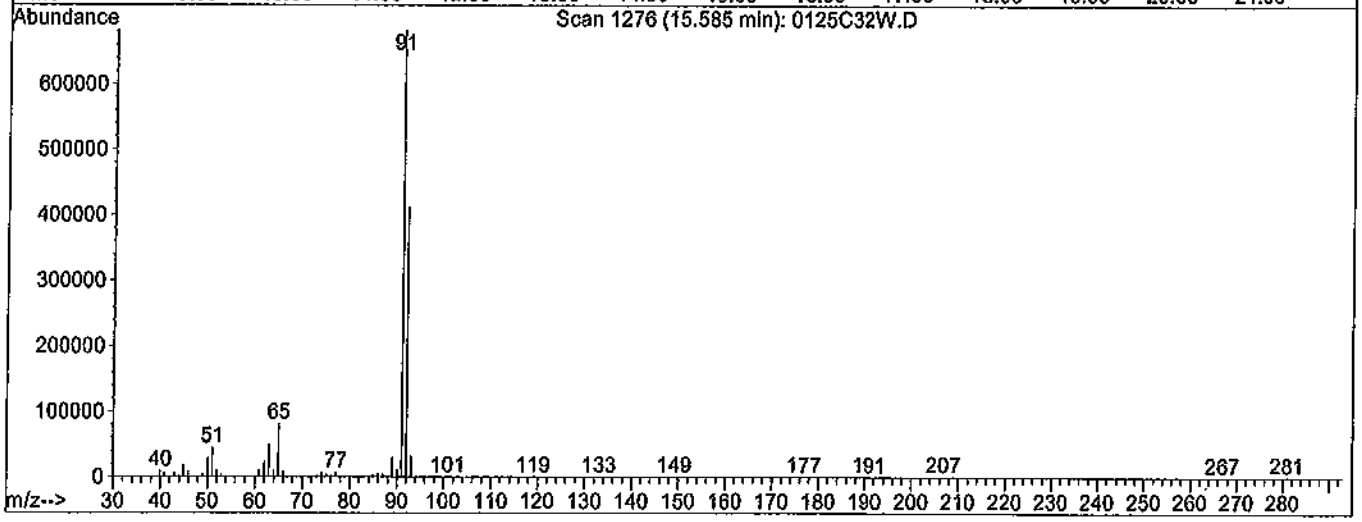
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.33#
0.00	0.00	0.94#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:09 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C32W.D

(2) Gasoline (TMHB)

15.58min 304.8615ppb m

response 46451061

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.29#
0.00	0.00	0.83#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:07 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1115516	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1310876	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.19	TIC	1420552	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	72391801m	556.70838	ppb	100

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

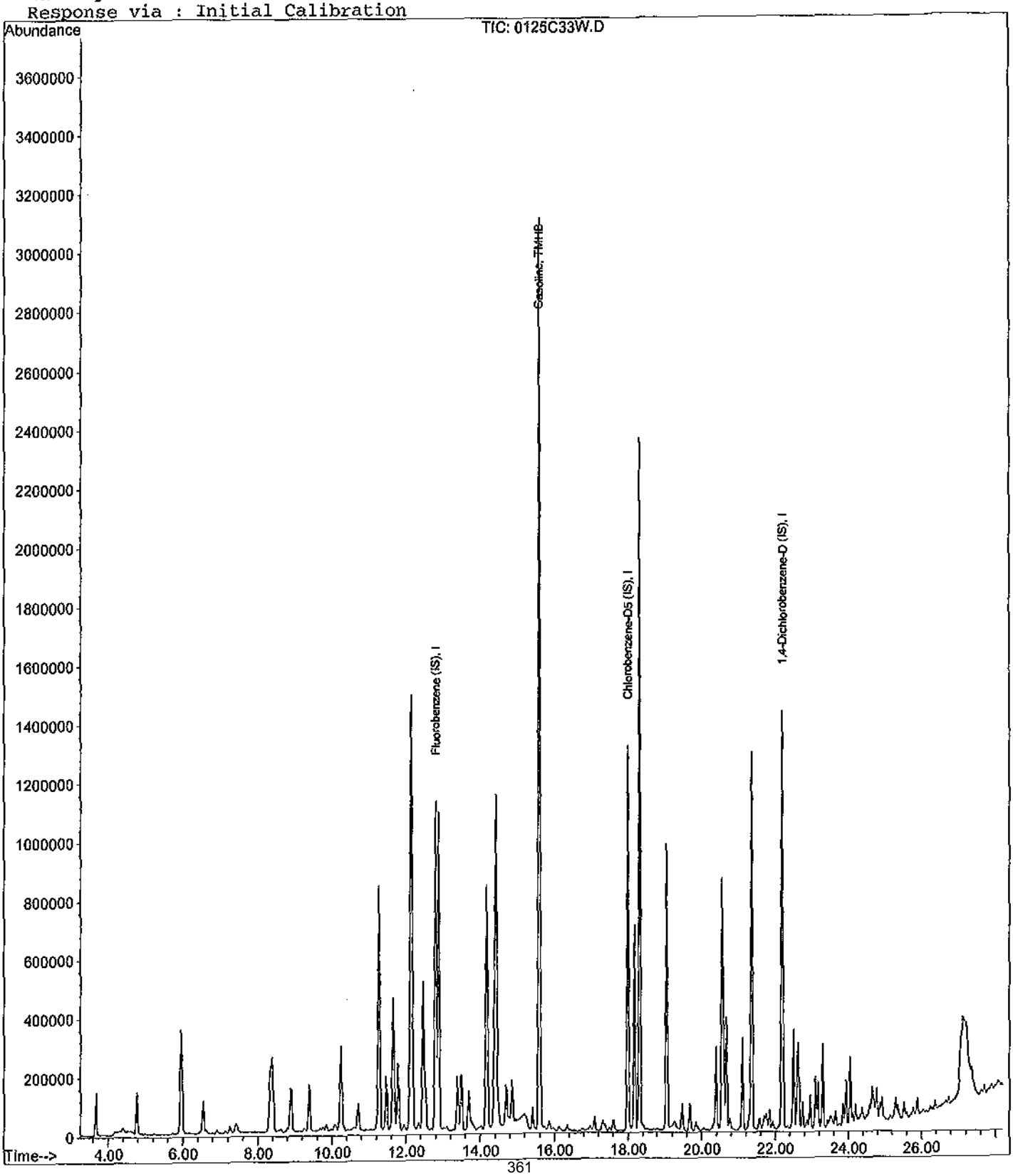
0125C33W.D CGAS.M Fri Feb 03 12:19:37 2012 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:07 2012 Quant Results File: CGAS.RES

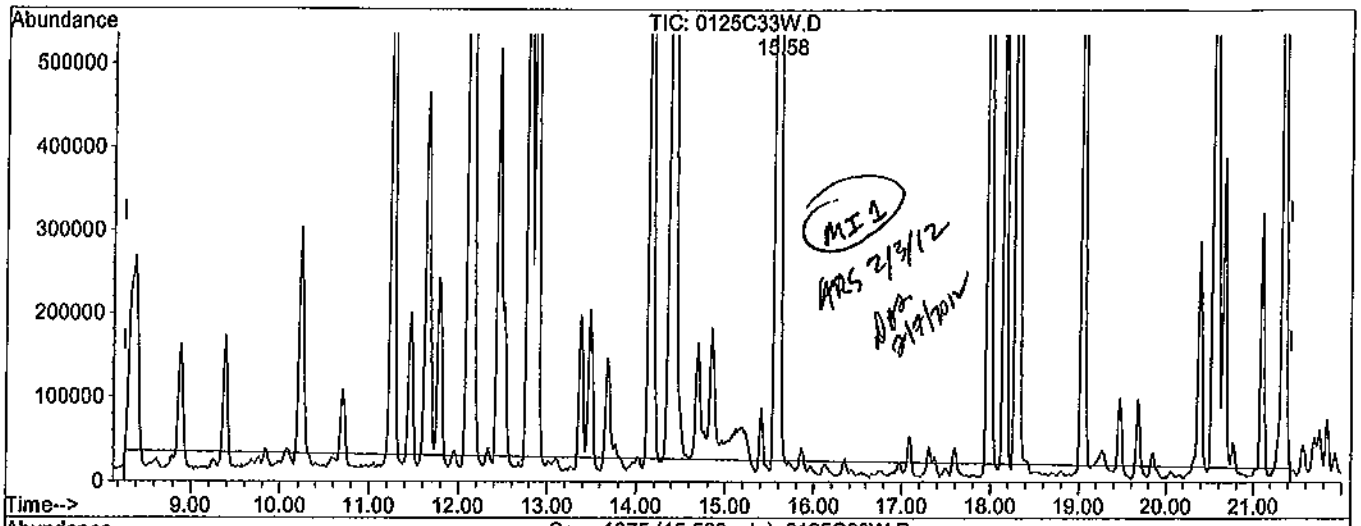
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

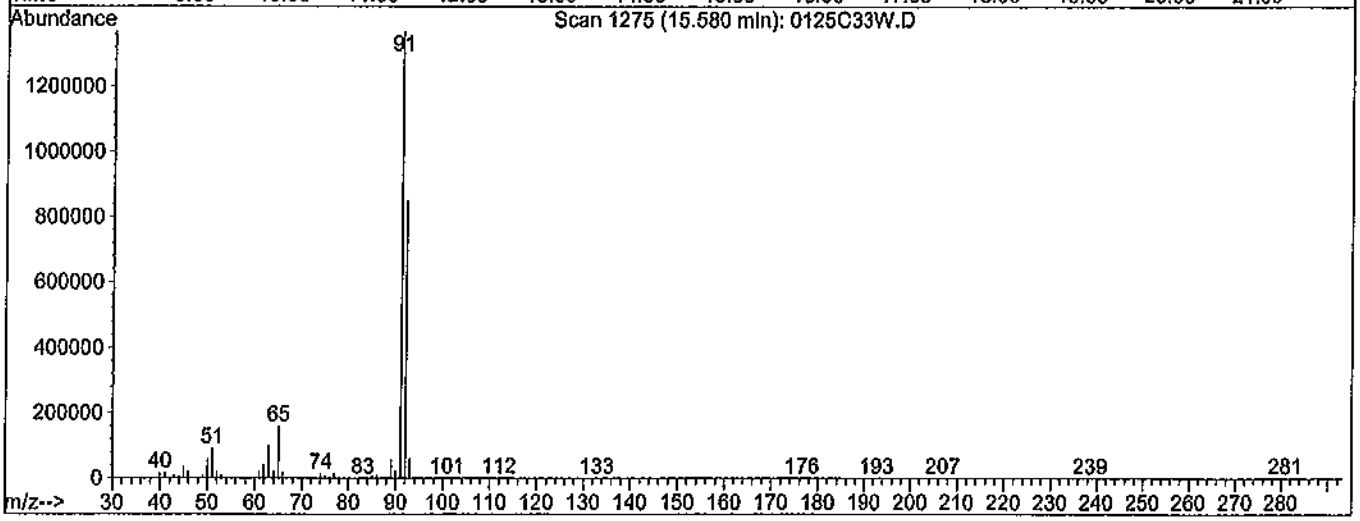


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C33W.D

(2) Gasoline (TMHB)

15.58min 556.7084ppb m

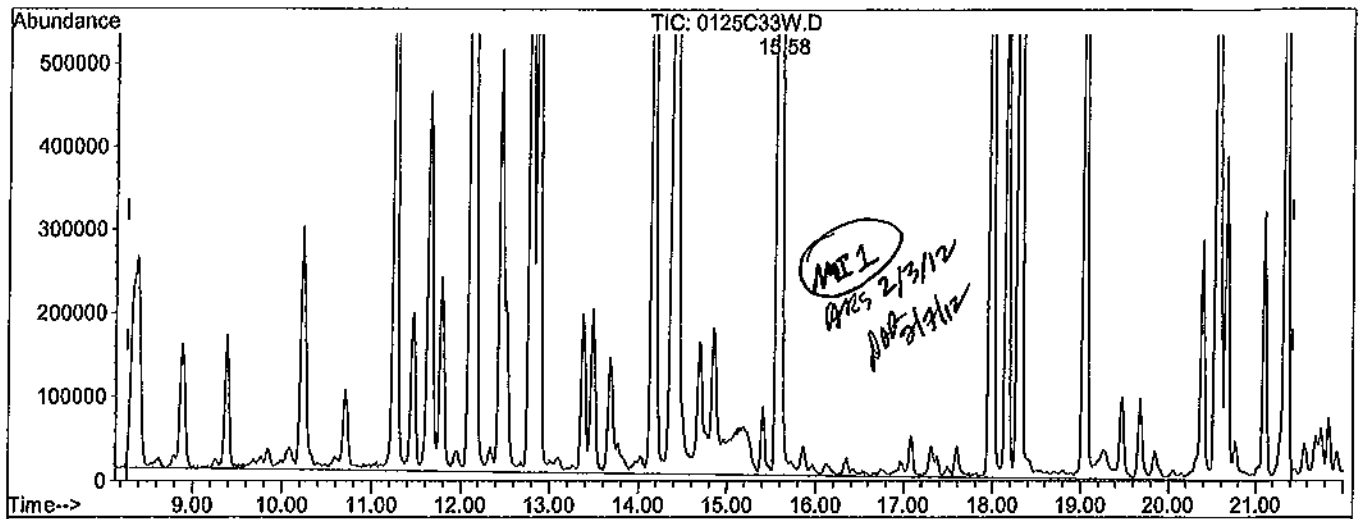
response 72391801

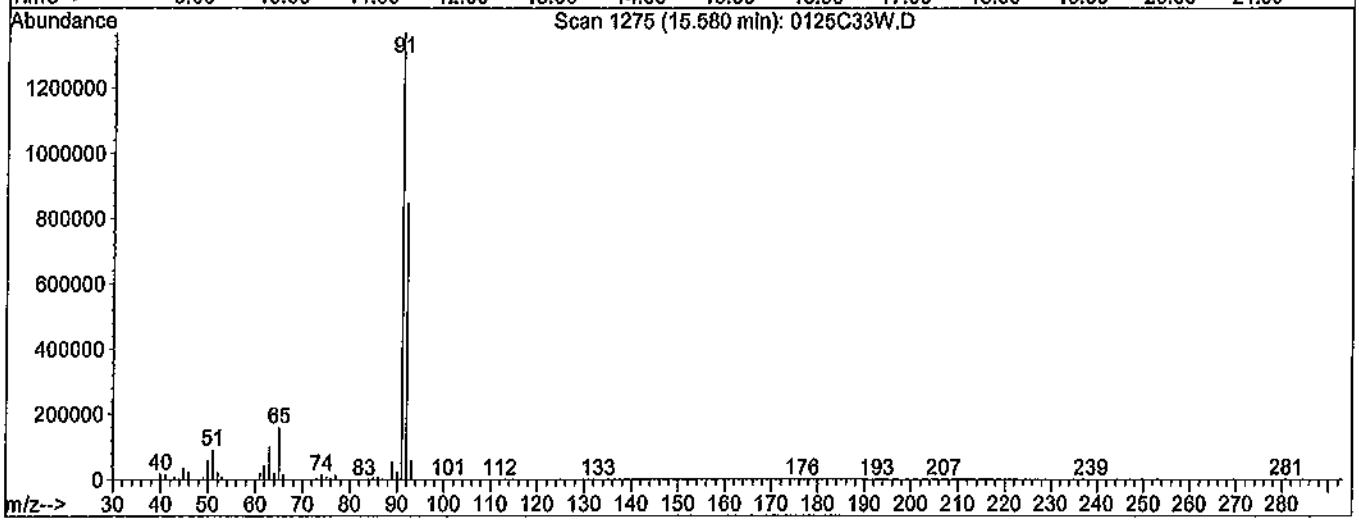
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.18#
0.00	0.00	0.53#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:16 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C33W.D

(2) Gasoline (TMHB)

15.58min 621.4121ppb m

response 78723288

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.16#
0.00	0.00	0.49#
0.00	0.00	0.00

0125C33W.D CGAS.M Fri Feb 03 12:16:32 2012

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:17 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1172096	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1436710	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1528793	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	102155823m	810.48263	ppb	100

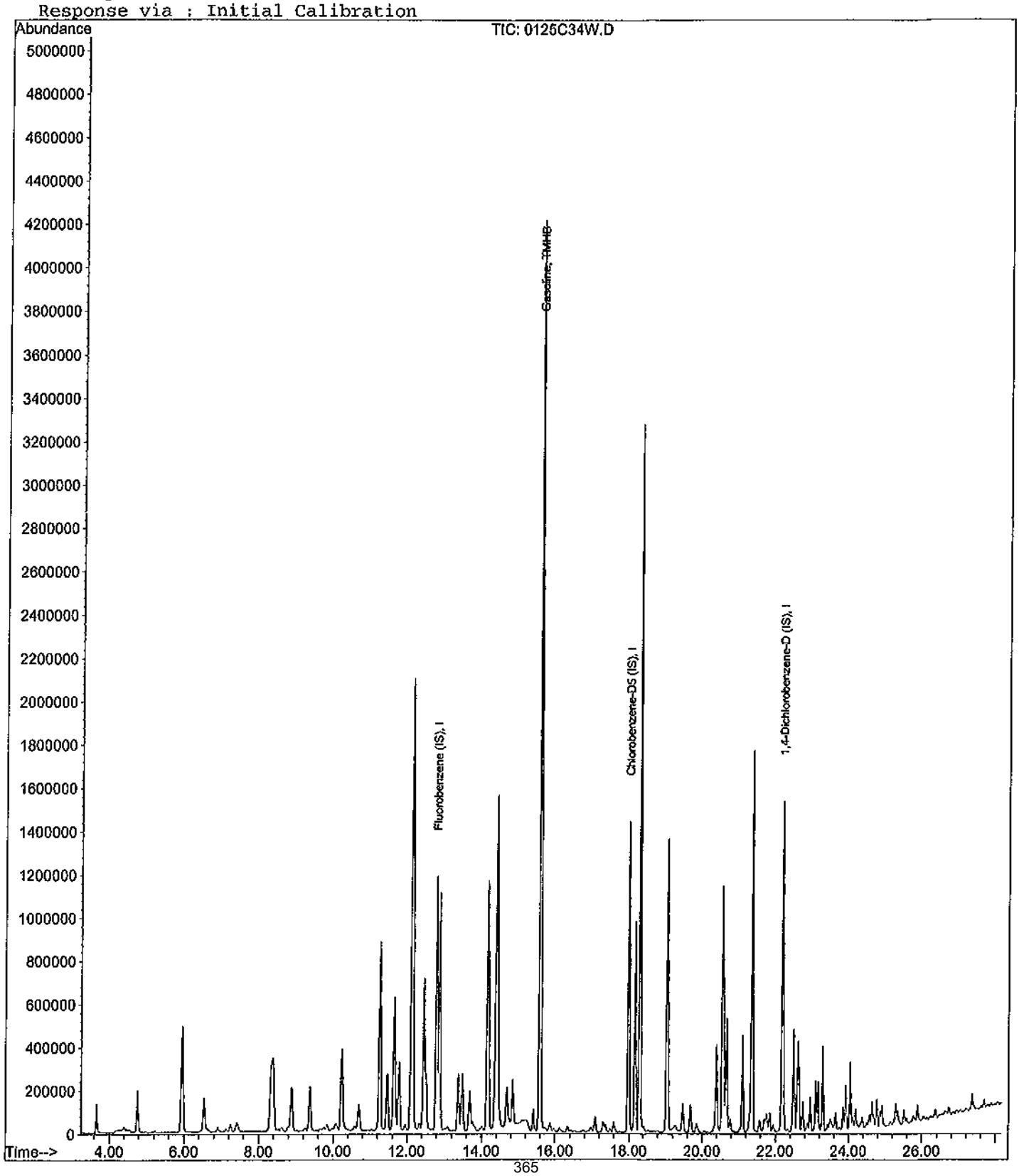
(#) = qualifier out of range (m) = manual integration
0125C34W.D CGAS.M Fri Feb 03 12:19:41 2012 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:17 2012 Quant Results File: CGAS.RES

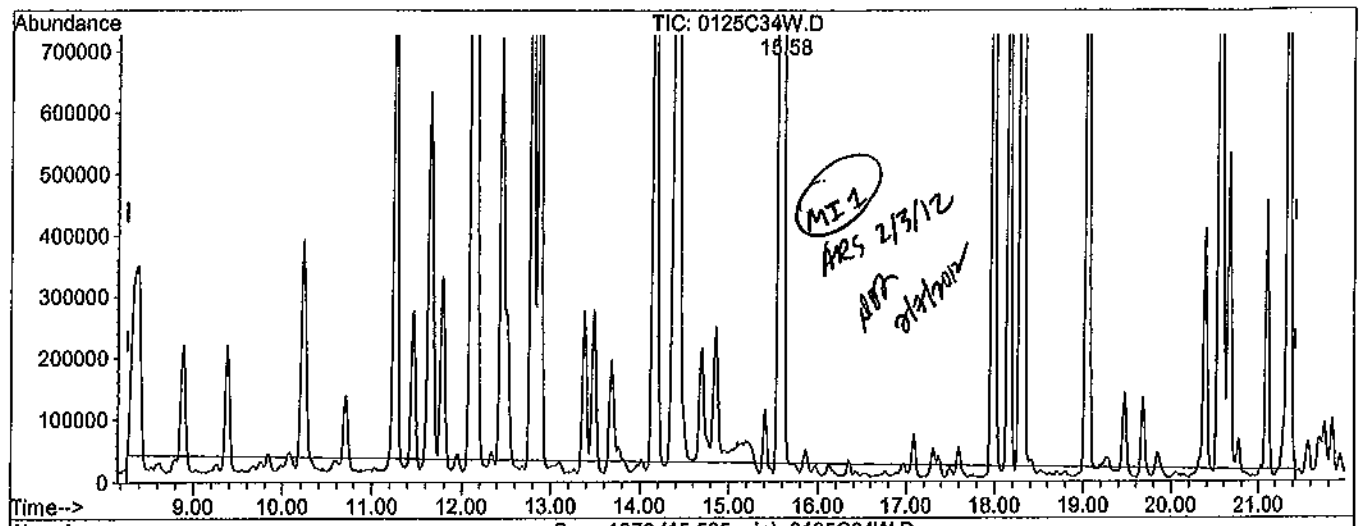
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

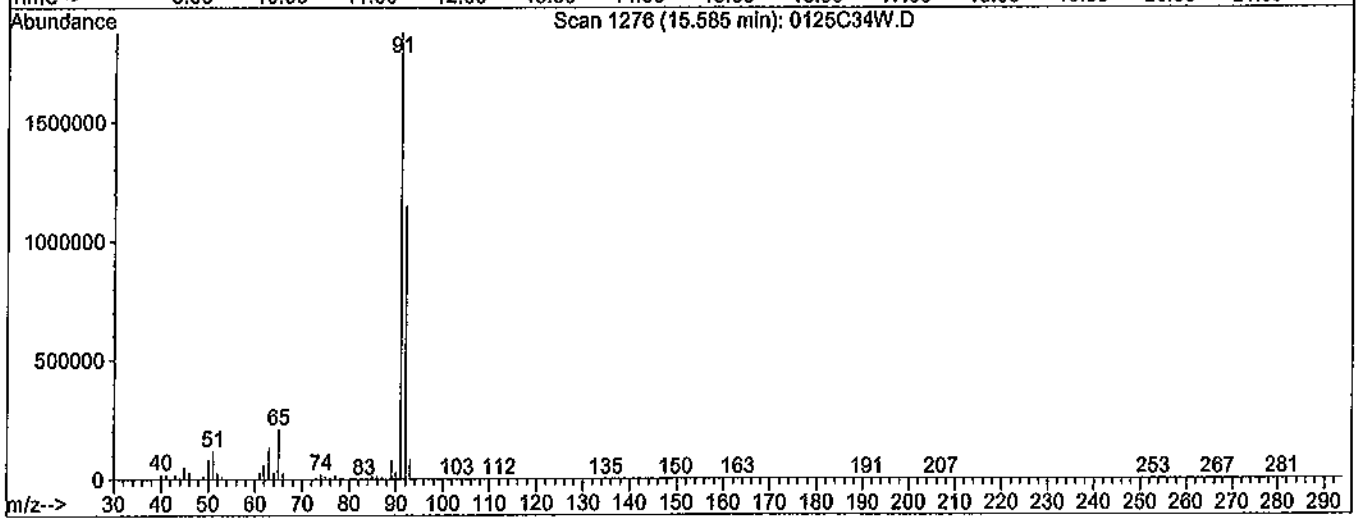


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C34W.D

(2) Gasoline (TMHB)

15.58min 730.0328ppb m

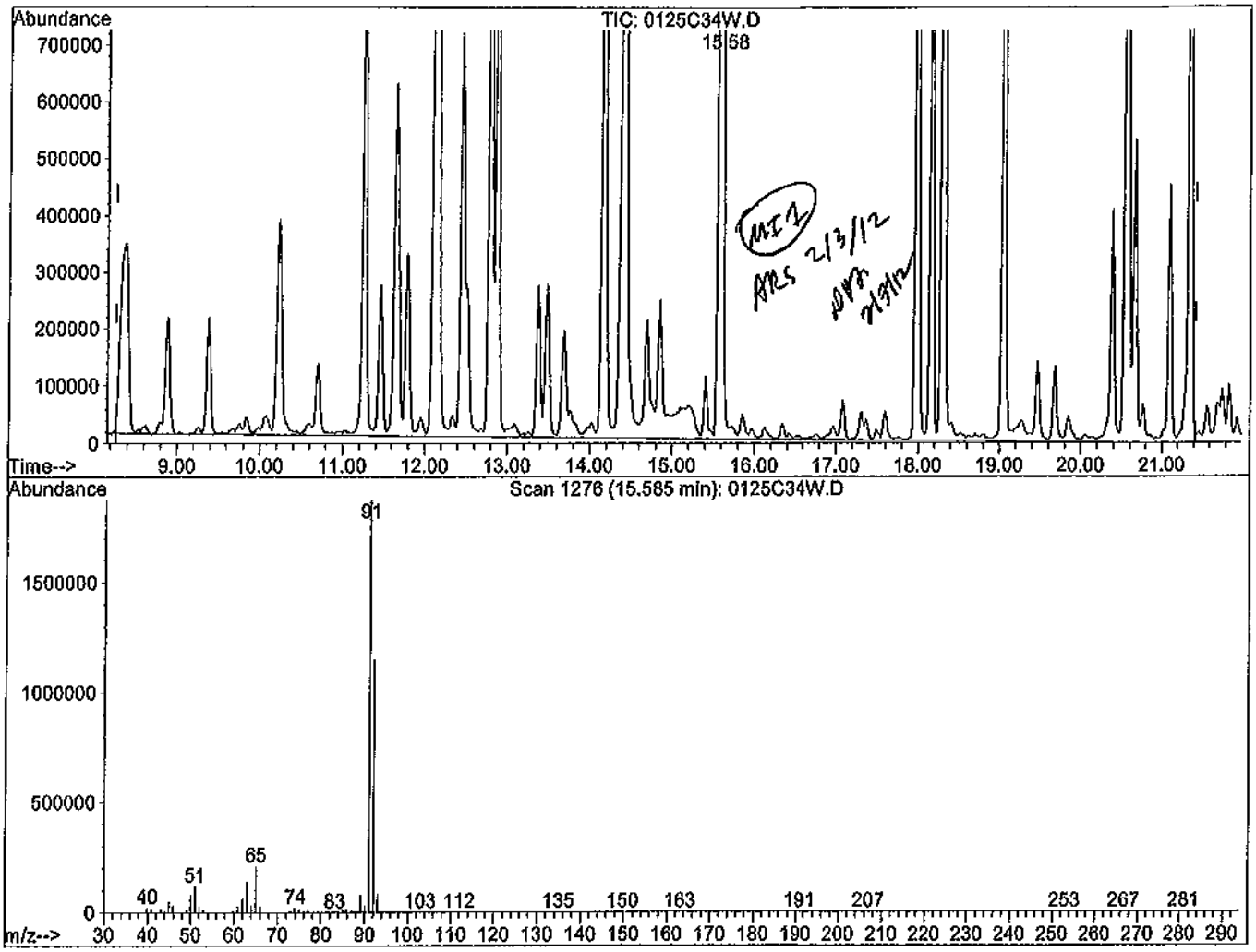
response 93884232

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.14#
0.00	0.00	0.44#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:17 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



TIC: 0125C34W.D

(2) Gasoline (TMHB)

15.58min 810.4826ppb m

response 102155823

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 (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:18 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1232092	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1442206	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1630956	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	129481006m	1014.92580	ppb	100

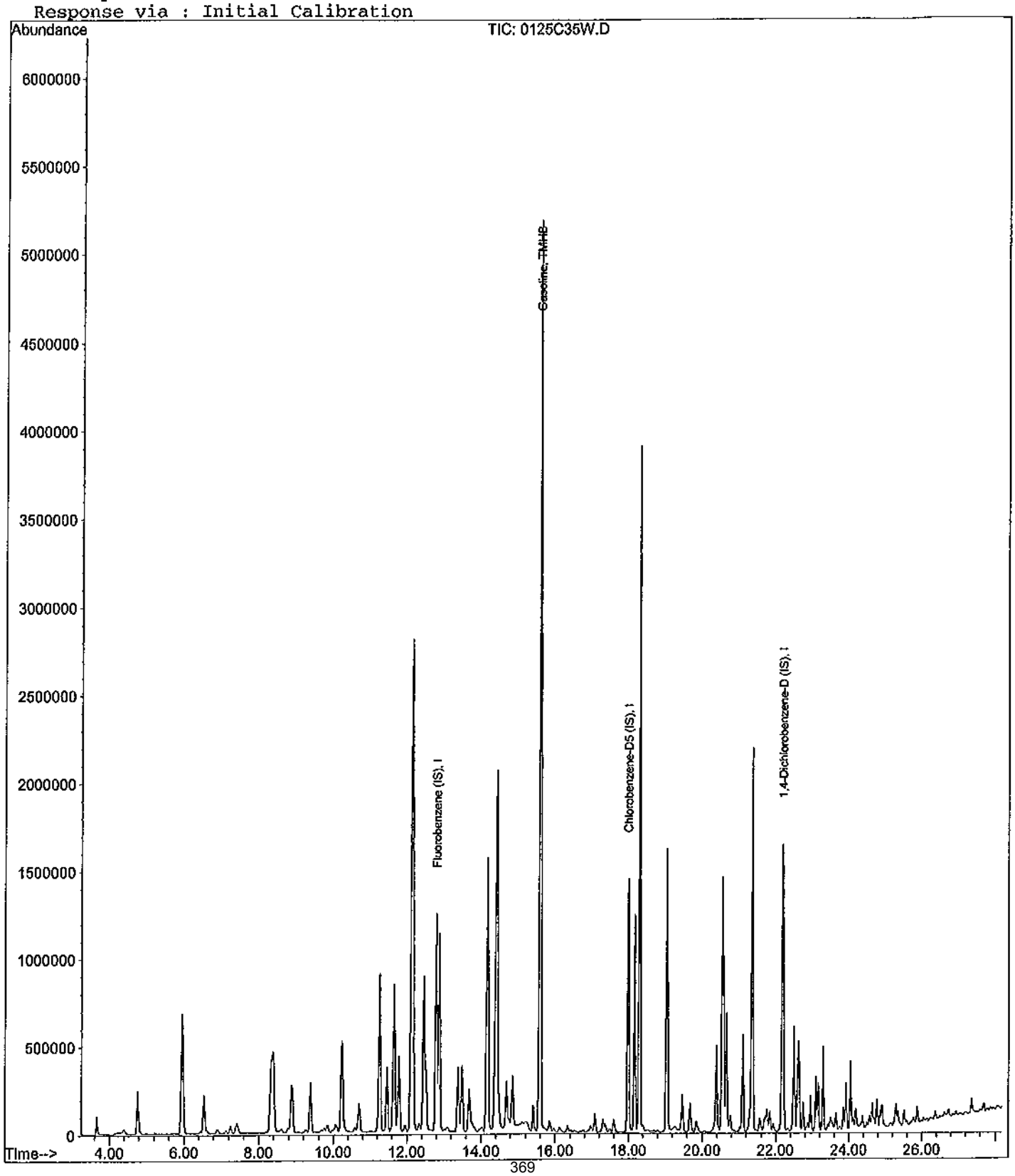
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:18 2012 Quant Results File: CGAS.RES

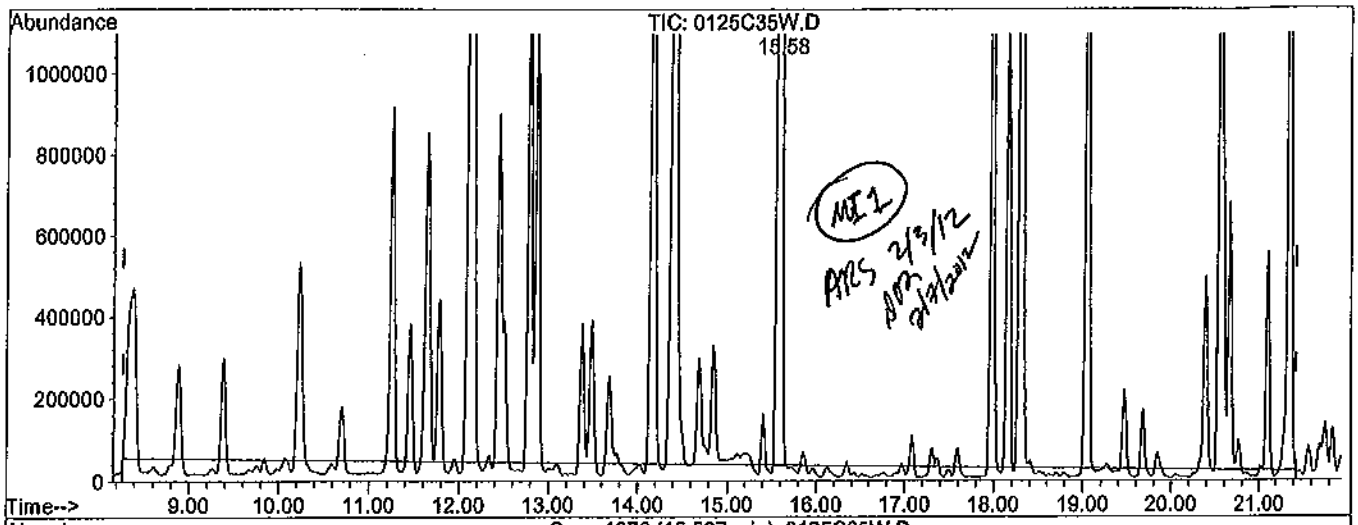
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

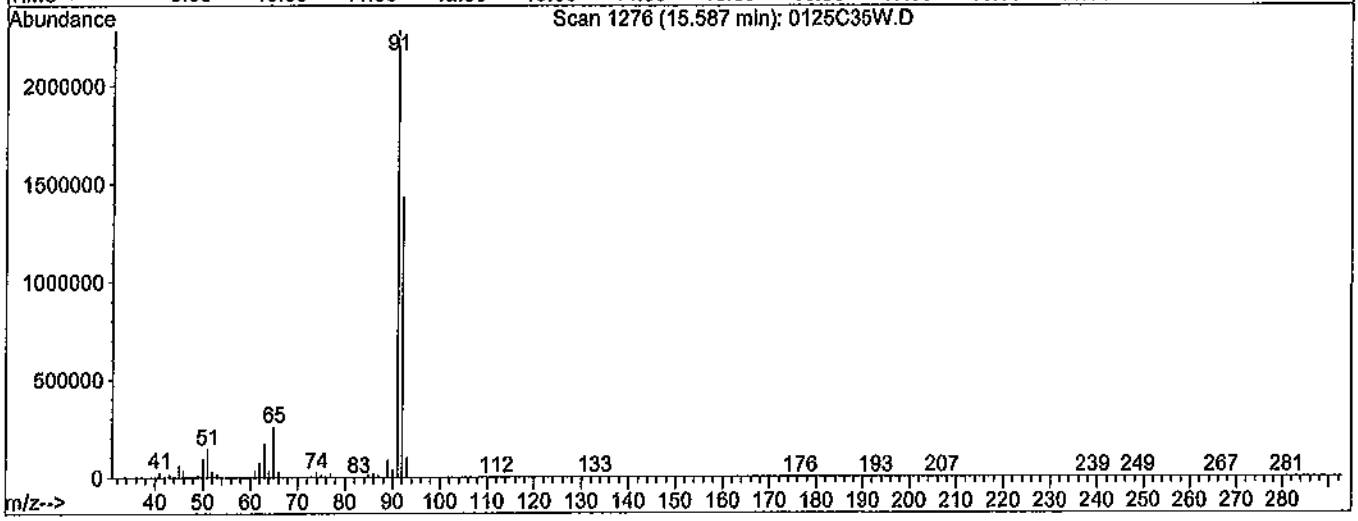


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C35W.D

(2) Gasoline (TMHB)

15.58min 923.0372ppb m

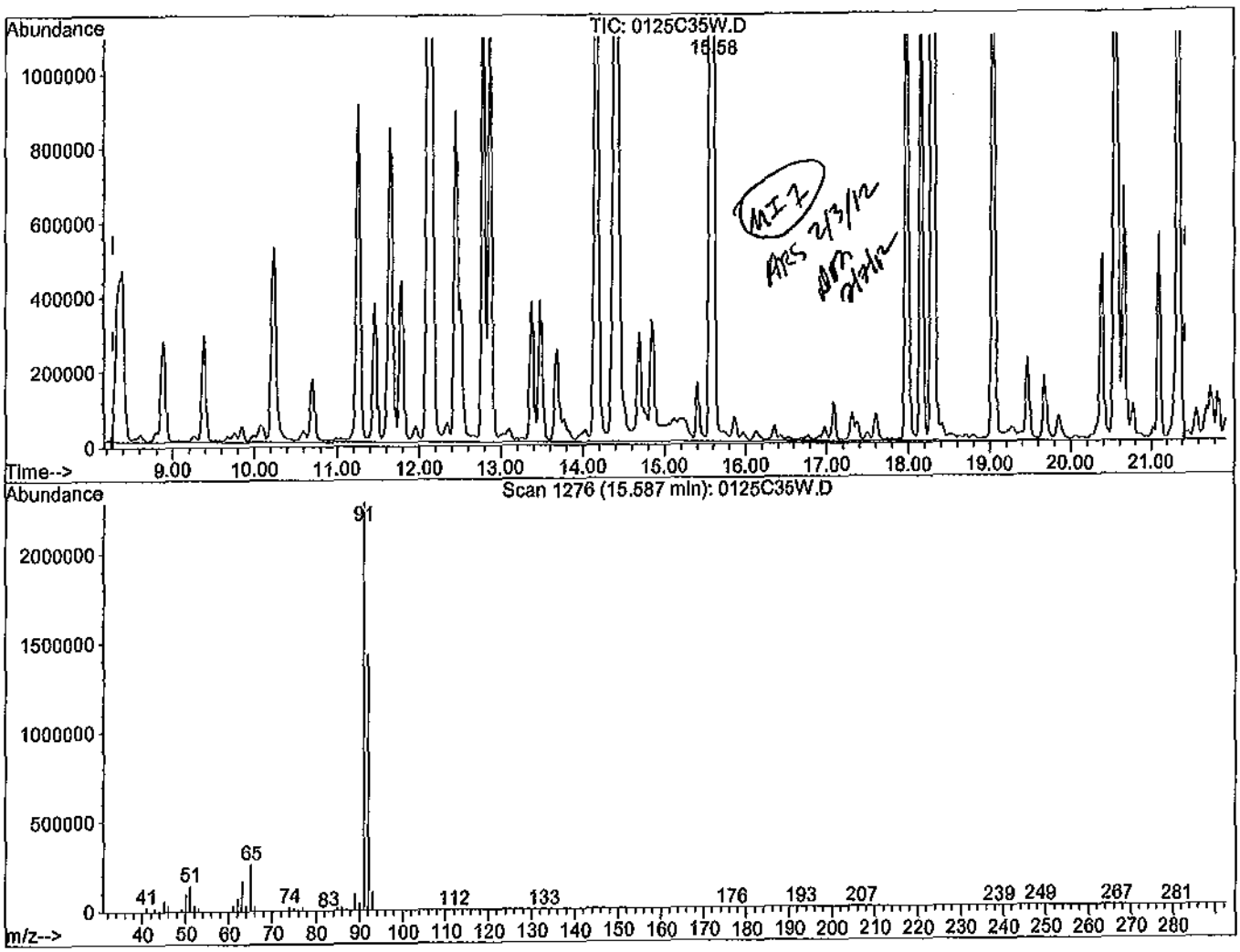
response 119549717

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.12#
0.00	0.00	0.35#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:18 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



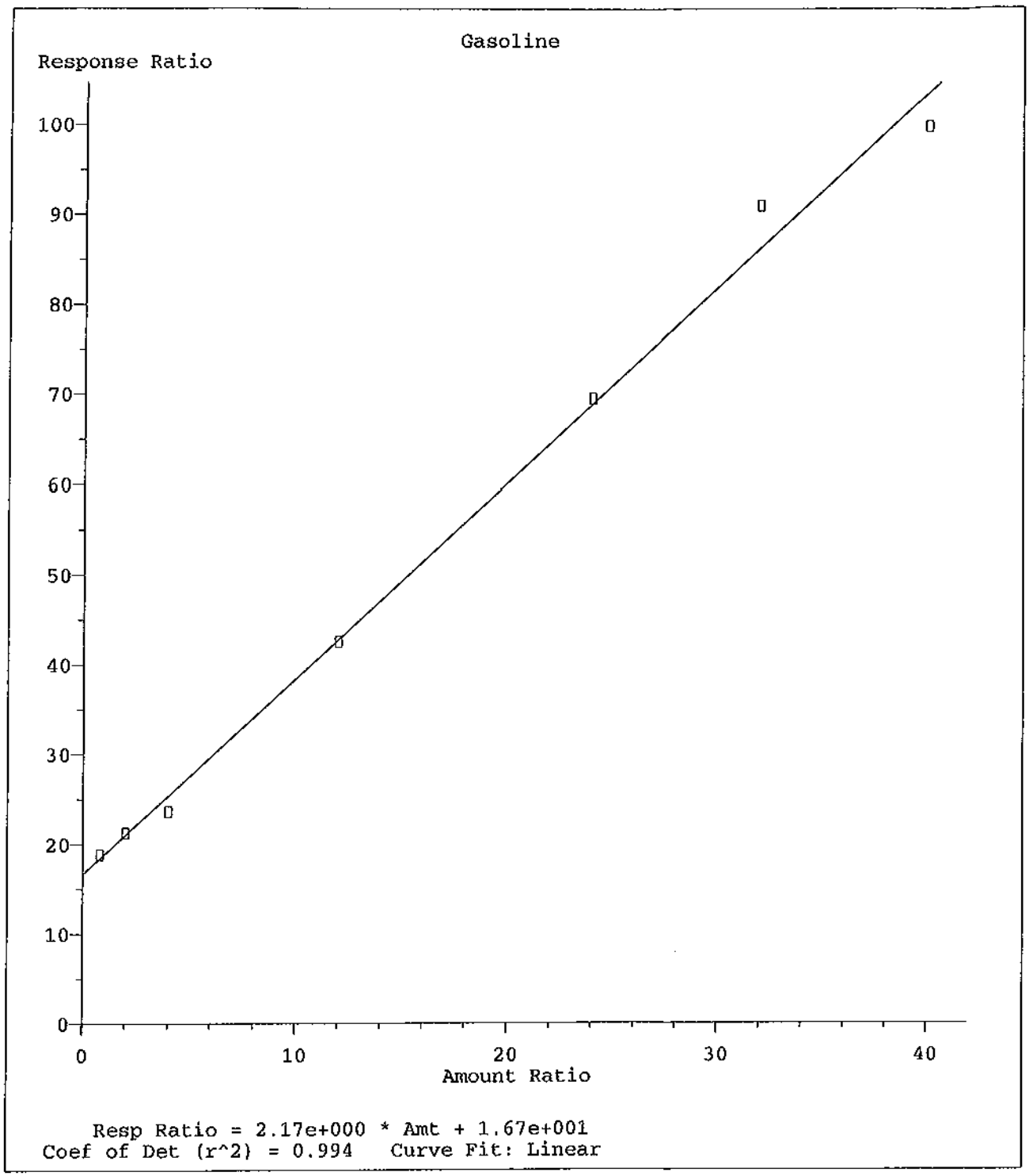
TIC: 0125C35W.D

(2) Gasoline (TMHB)

15.58min 1014.9258ppb m

response 129481006

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.11#
0.00	0.00	0.33#
0.00	0.00	0.00



Method Name: M:\CHICO\DATA\C120125\CGAS.M
Calibration Table Last Updated: Tue Feb 07 09:36:43 2012

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66826
Date Analyzed: 01/27/12
Instrument: Chico
Initial Cal. Date: 01/25/12
Data File: 0125C38W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline	7.410	3.556	52	TMHBL	0.36
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
9							
10							
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35							
36							
37							
38							
39							
40							
		Average			52.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:37 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1138336	25.00000 ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1375303	25.00000 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1433410	25.00000 ppb	0.00
System Monitoring Compounds					
Target Compounds					Qvalue
2) Gasoline	15.58	TIC	48578324m	298.92978 ppb	100

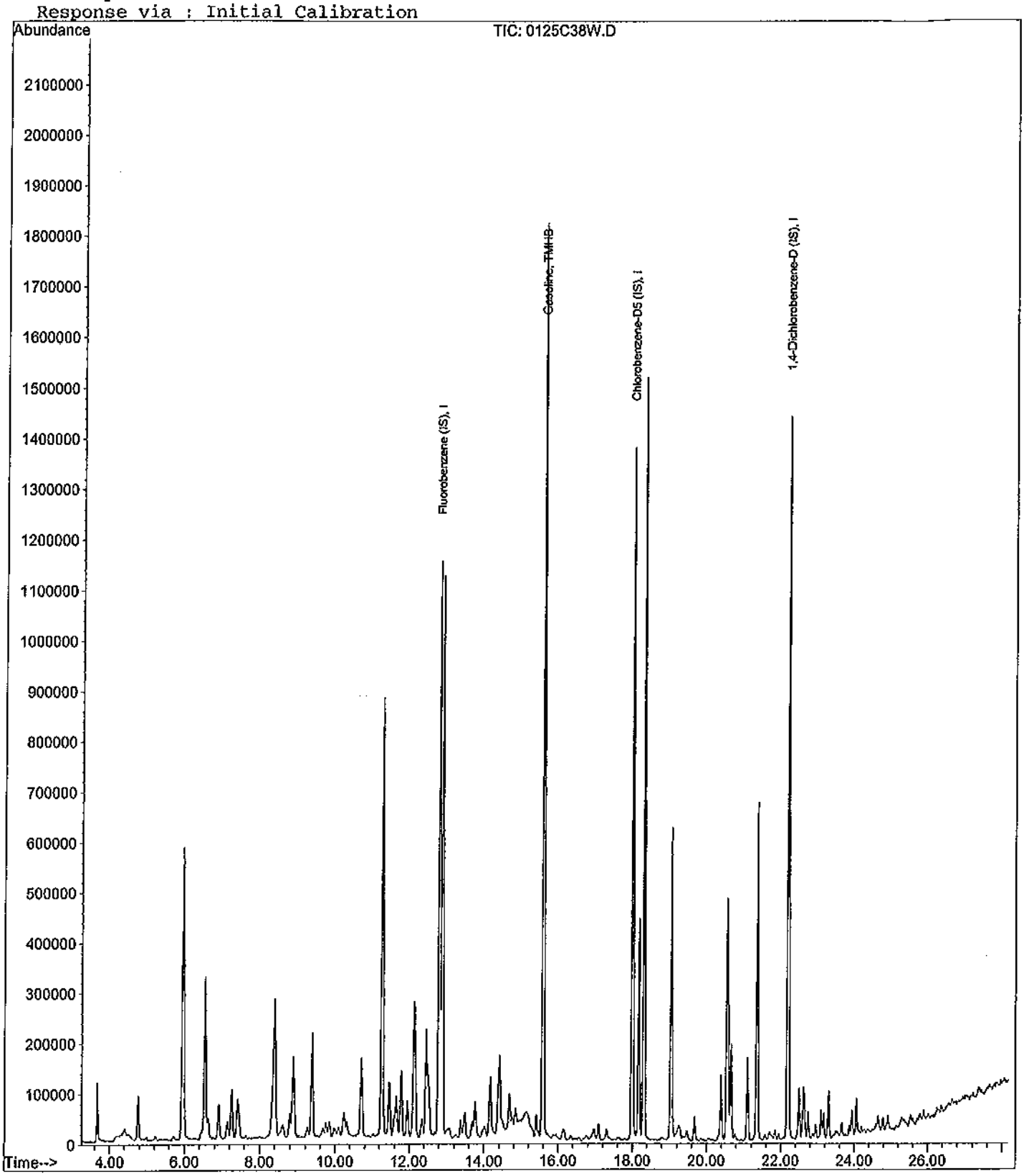
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:37 2012 Quant Results File: CGAS.RES

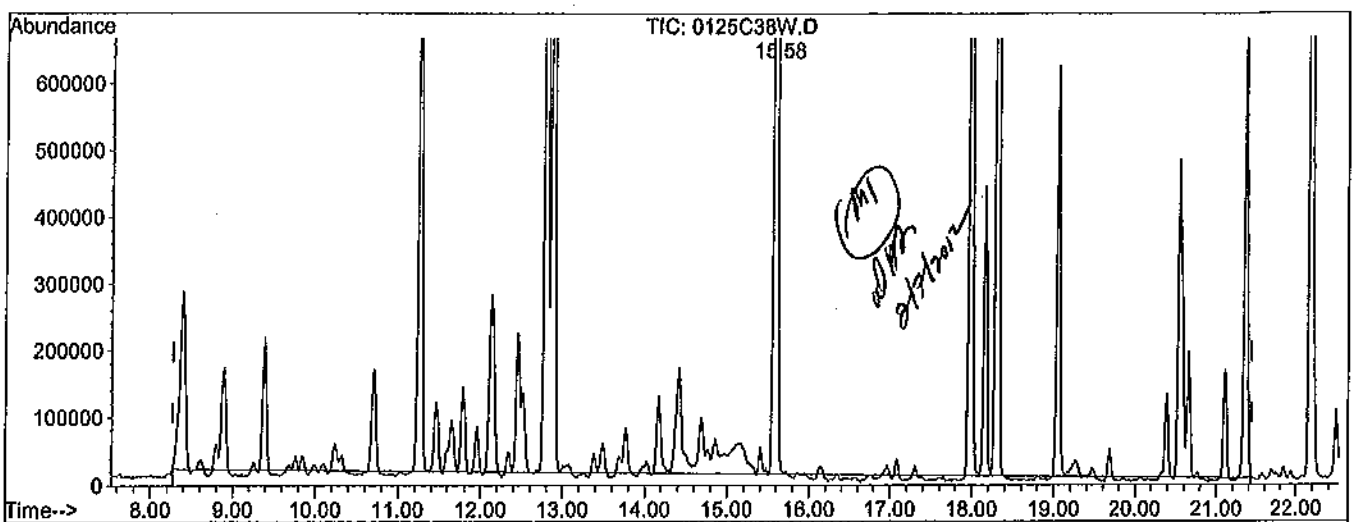
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:37 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0125C38W.D

(2) Gasoline (TMHB)

15.58min 202.8575ppb m

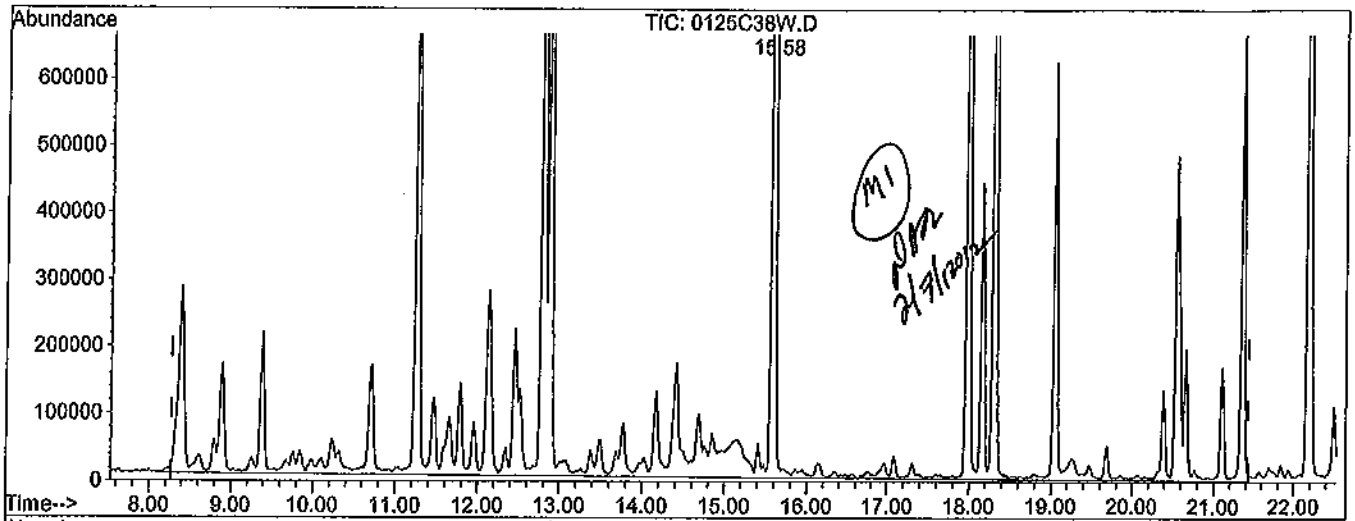
response 39074056

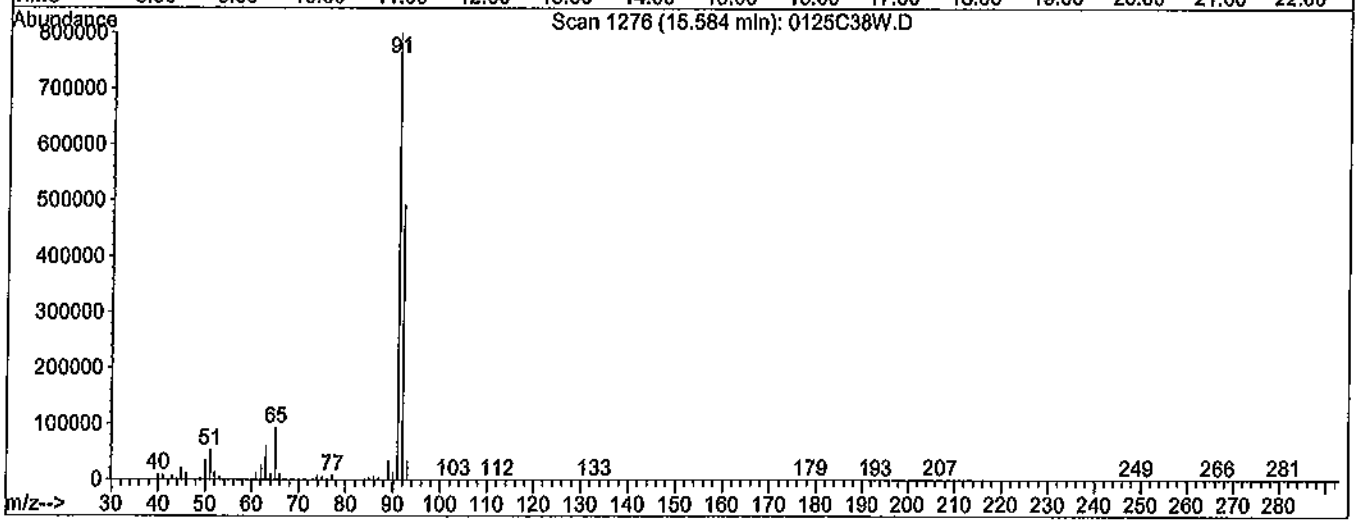
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.34#
0.00	0.00	1.04#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:37 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0125C38W.D

(2) Gasoline (TMHB)

15.58min 298.9298ppb m

response 48578324

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.28#
0.00	0.00	0.84#
0.00	0.00	0.00

0125C38W.D CGAS.M Tue Feb 07 09:37:34 2012

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66826
Date Analyzed: 01/27/12
Instrument: Chico
Initial Cal. Date: 01/25/12
Data File: 0127C05W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline	7.410	3.910	47	TMHBL	16
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
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39							
40							
		Average			47.0		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C05W.D Vial: 1
Acq On : 27 Jan 12 12:32 Operator: RS, ARS
Sample : CCV gas 300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:39 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1173654	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1400160	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1488879	25.00000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline	15.58	TIC	55064618m	347.74562	ppb	100

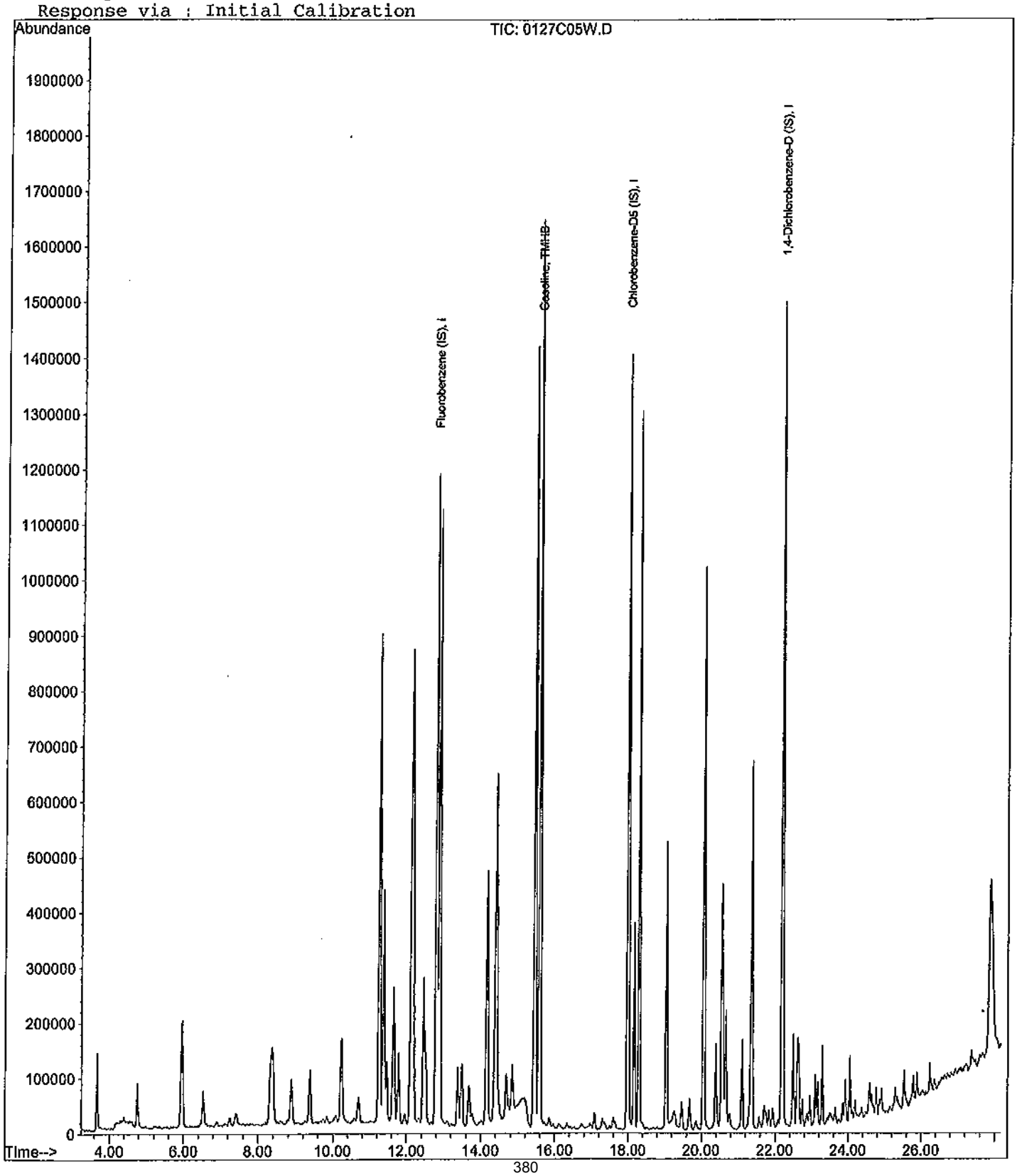
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C05W.D Vial: 1
Acq On : 27 Jan 12 12:32 Operator: RS, ARS
Sample : CCV gas 300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:39 2012 Quant Results File: CGAS.RES

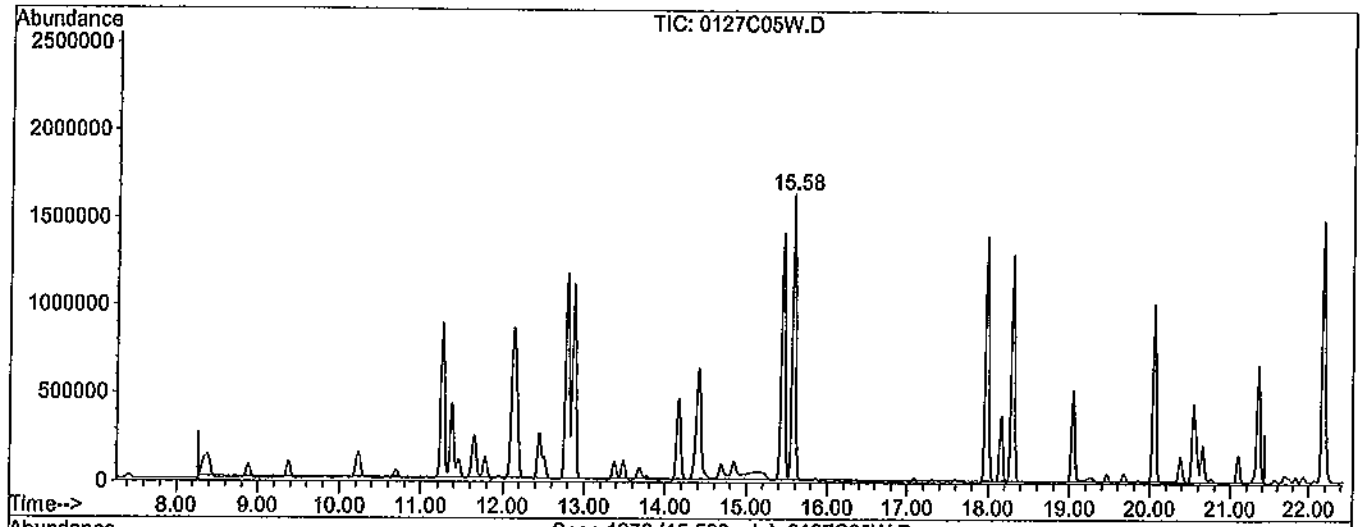
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C05W.D Vial: 1
Acq On : 27 Jan 12 12:32 Operator: RS, ARS
Sample : CCV gas 300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 9 12:54 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0127C05W.D

(2) Gasoline (TMHB)

15.58min 347.7456ppb m

response 55064618

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.27#
0.00	0.00	0.76#
0.00	0.00	0.00

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66826
Date Analyzed: 1 Feb 12 13:48
Instrument: Chico
Initial Cal. Date: 01/31/12
Data File: 0201C03W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline	7.410	3.471	53	TMHBL	4.3
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
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39							
40							
		Average			53.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120131\0201C03W.D Vial: 1
Acq On : 1 Feb 12 13:48 Operator: RS, ARS
Sample : 120201A CCV-WC-GAS Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00

Quant Time: Feb 9 13:35 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1131154	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.99	TIC	1103362	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.19	TIC	1143488	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.59	TIC	47116722m	287.17940	ppb	100

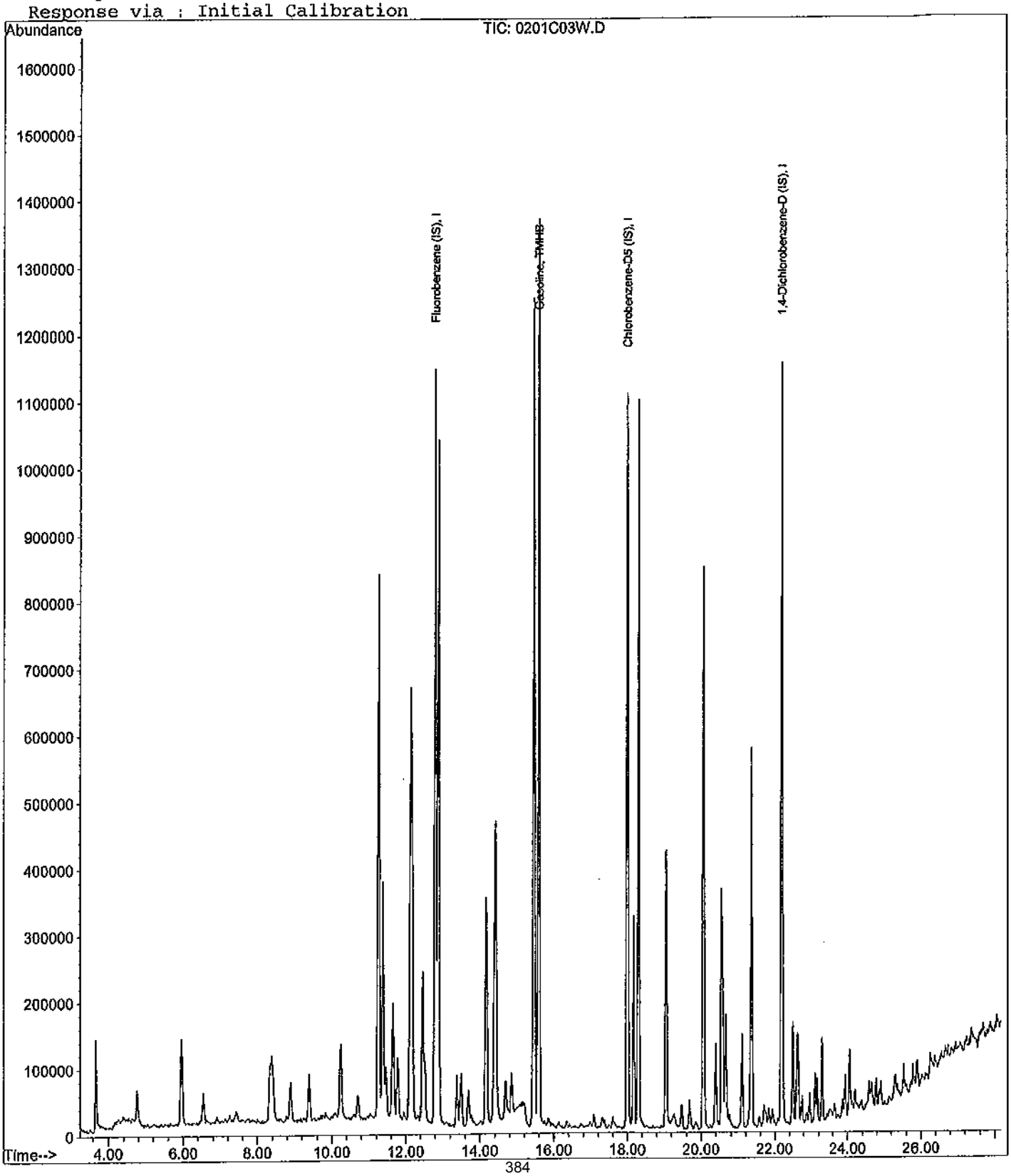
(#) = qualifier out of range (m) = manual integration
0201C03W.D CGAS.M Thu Feb 09 13:35:30 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120131\0201C03W.D Vial: 1
Acq On : 1 Feb 12 13:48 Operator: RS, ARS
Sample : 120201A CCV-WC-GAS Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00

Quant Time: Feb 9 13:35 2012 Quant Results File: CGAS.RES

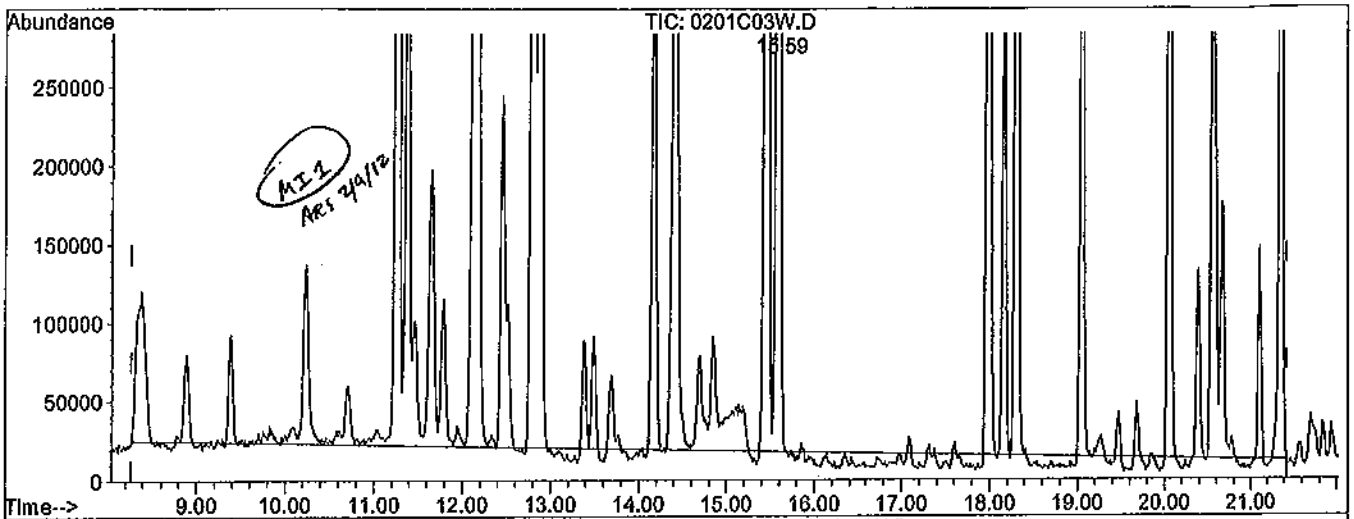
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

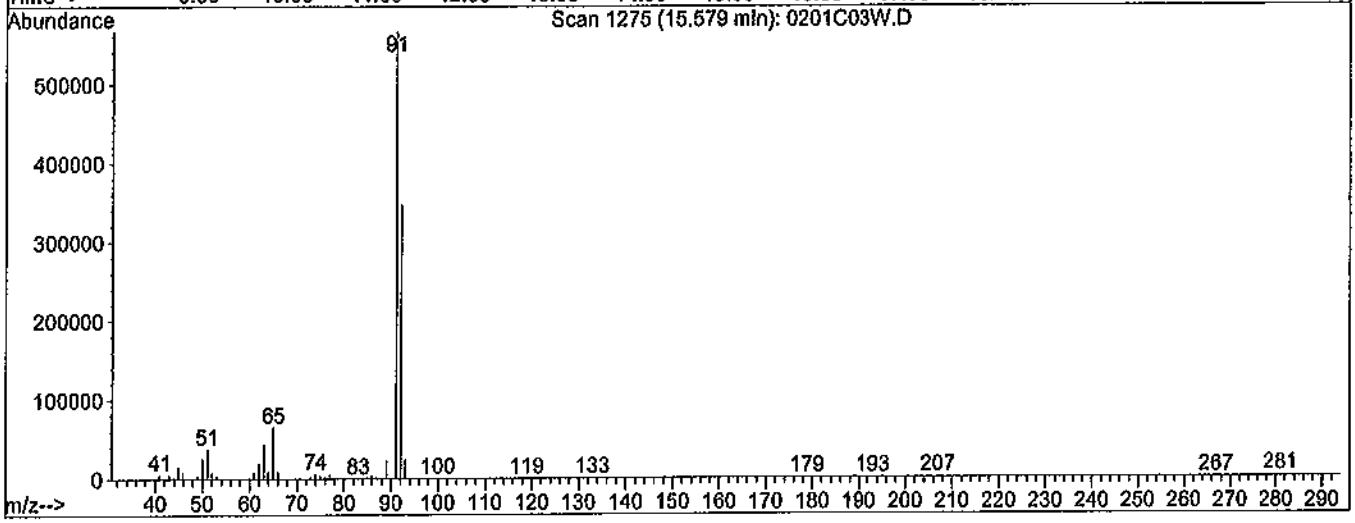


Quantitation Report

Data File : M:\CHICO\DATA\C120131\0201C03W.D Vial: 1
Acq On : 1 Feb 12 13:48 Operator: RS, ARS
Sample : 120201A CCV-WC-GAS Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00
Quant Time: Feb 9 13:32 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0201C03W.D

(2) Gasoline (TMHB)

15.58min 267.9506ppb m

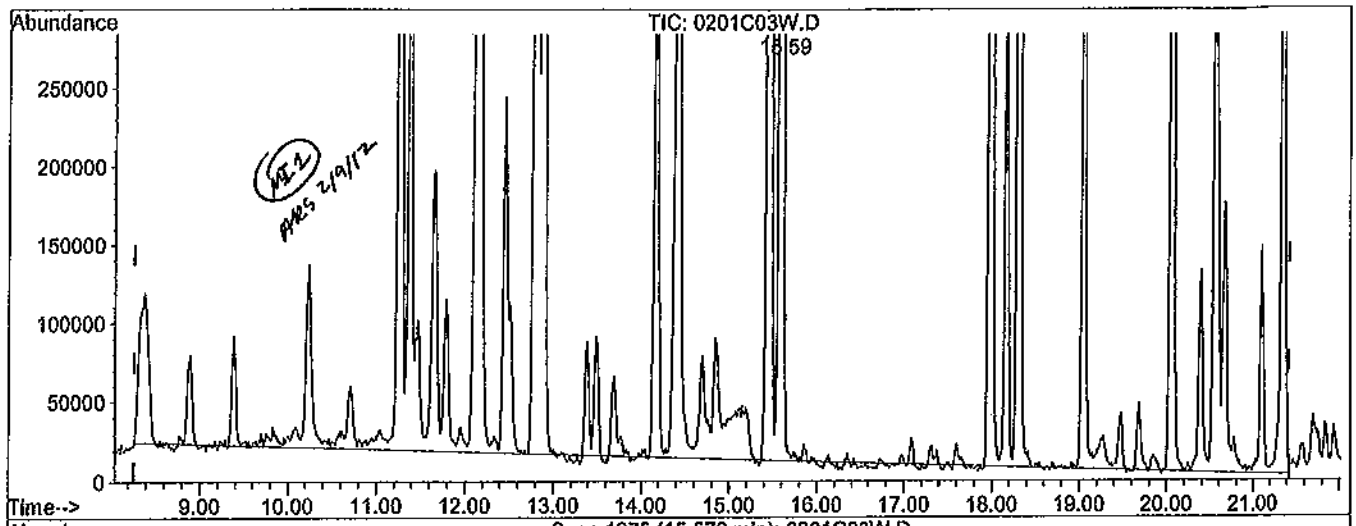
response 45226448

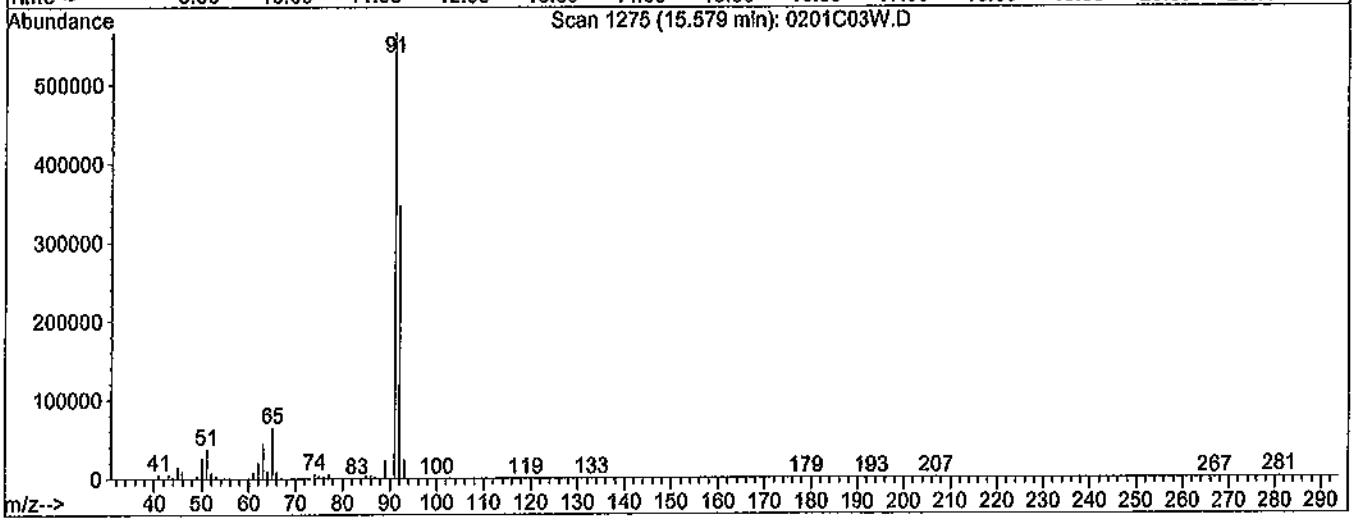
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.25#
0.00	0.00	0.72#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120131\0201C03W.D Vial: 1
Acq On : 1 Feb 12 13:48 Operator: RS, ARS
Sample : 120201A CCV-WC-GAS Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00
Quant Time: Feb 9 13:35 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0201C03W.D

(2) Gasoline (TMHB)

15.59min 287.1794ppb m

response 47116722

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.24#
0.00	0.00	0.69#
0.00	0.00	0.00

0201C03W.D CGAS.M Thu Feb 09 13:35:12 2012

EPA METHOD 8260B
Volatile Organic Compounds
Raw Data

APPL, INC.

Method Blank

EPA 8260B VOCs + Gas Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **120127W-53807 - 163743**
Batch ID: #86RHB-120127AC

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	01/27/12	01/27/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/27/12	01/27/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/27/12	01/27/12
BLANK	1,2,4-TRICHLOROBENZENE	0.28 J	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	01/27/12	01/27/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	1,3-DICHLOROBENZENE	0.12 J	1.0	0.22	0.11	ug/L	01/27/12	01/27/12
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	01/27/12	01/27/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/27/12	01/27/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/27/12	01/27/12
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/27/12	01/27/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/27/12	01/27/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/27/12	01/27/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/27/12	01/27/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/27/12	01/27/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/27/12	01/27/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/27/12	01/27/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/27/12	01/27/12
BLANK	HEXACHLOROBUTADIENE	0.26 J	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C09
Instrument: Chico
Sequence: C120125
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/10/12 9:17:56 AM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120127W-53807 - 163743**
Batch ID: #86RHB-120127AC

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	01/27/12	01/27/12
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	01/27/12	01/27/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/27/12	01/27/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/27/12	01/27/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/27/12	01/27/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/27/12	01/27/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/27/12	01/27/12
BLANK	SURROGATE: 1,2-DICHLOROET	106	70-120			%	01/27/12	01/27/12
BLANK	SURROGATE: 4-BROMOFLUORO	99.1	75-120			%	01/27/12	01/27/12
BLANK	SURROGATE: DIBROMOFLUOR	102	85-115			%	01/27/12	01/27/12
BLANK	SURROGATE: TOLUENE-D8 (S)	103	85-120			%	01/27/12	01/27/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0127C09
Instrument: Chico
Sequence: C120125
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/10/12 9:17:56 AM

Method Blank

EPA 8260B VOCS + GAS WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **120127W-53809 - 163817**
Batch ID: #86RHB-120127AC1

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	01/27/12	01/27/12
BLANK	SURROGATE: 1,2-DICHLOROET	106	70-120			%	01/27/12	01/27/12
BLANK	SURROGATE: 4-BROMOFLUORO	99.1	75-120			%	01/27/12	01/27/12
BLANK	SURROGATE: DIBROMOFLUOR	102	85-115			%	01/27/12	01/27/12
BLANK	SURROGATE: TOLUENE-D8 (S)	103	85-120			%	01/27/12	01/27/12

Quant Method: CALLW.M
Run #: 0127C09
Instrument: Chico
Sequence: C120125
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/10/12 11:20:33 AM

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C09W.D Vial: 1
Acq On : 27 Jan 12 15:01 Operator: RS, ARS
Sample : 120127A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 30 16:52 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	96	575259	25.00000 ppb	0.02
54) Chlorobenzene-D5 (IS)	17.98	117	477248	25.00000 ppb	0.01
70) 1,4-Dichlorobenzene-D (IS)	22.18	152	253632	25.00000 ppb	0.01
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.37	111	378041	24.68658 ppb	0.01
Spiked Amount 24.119			Recovery	= 102.354%	
37) 1,2-DCA-D4(S)	12.18	65	268532	24.30448 ppb	0.02
Spiked Amount 22.874			Recovery	= 106.251%	
55) Toluene-D8(S)	15.45	98	1536986	25.48458 ppb	0.02
Spiked Amount 24.755			Recovery	= 102.949%	
63) 4-Bromofluorobenzene(S)	20.05	95	559559	26.54717 ppb	0.01
Spiked Amount 26.777			Recovery	= 99.140%	
Target Compounds					Qvalue
25) Vinyl Acetate	9.38	43	2108	0.85726 ppb NT#	81
36) 2,2,4-Trimethylpentane	12.12	57	36860	0.94980 ppb NT#	89
78) 4-Ethyltoluene	20.58	105	6174	0.11269 ppb NT	98
87) 1,3-DCB	22.09	146	4107	0.11605 ppb J	89
90) n-Butylbenzene	22.65	91	11918	0.18556 ppb NT	96
93) 1,2,4-Trichlorobenzene	25.54	180	2343	0.27618 ppb J	92
94) Hexachlorobutadiene	25.78	223	3303	0.26455 ppb J	83

ARS 1/31/12

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

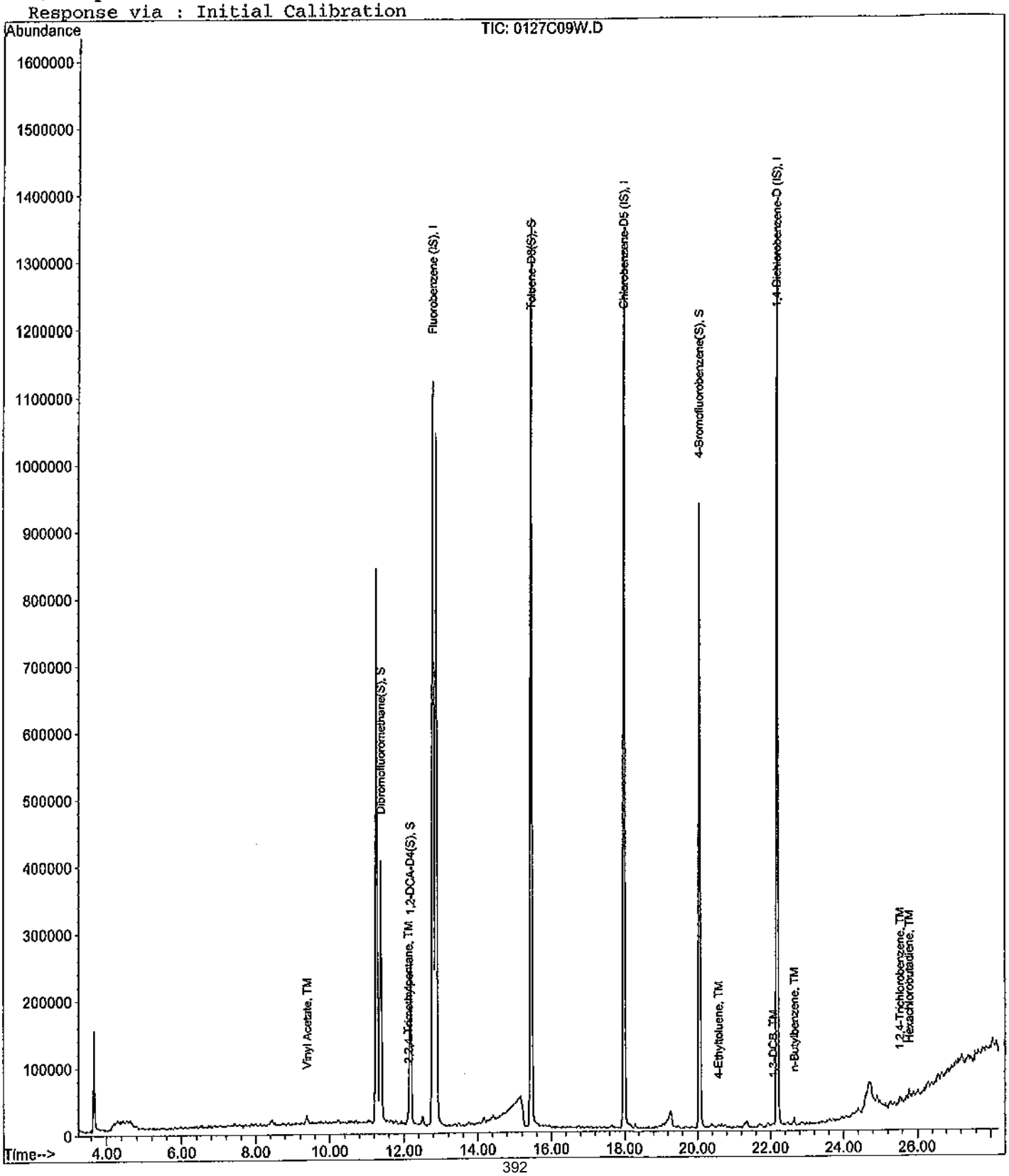
Quantitation Report

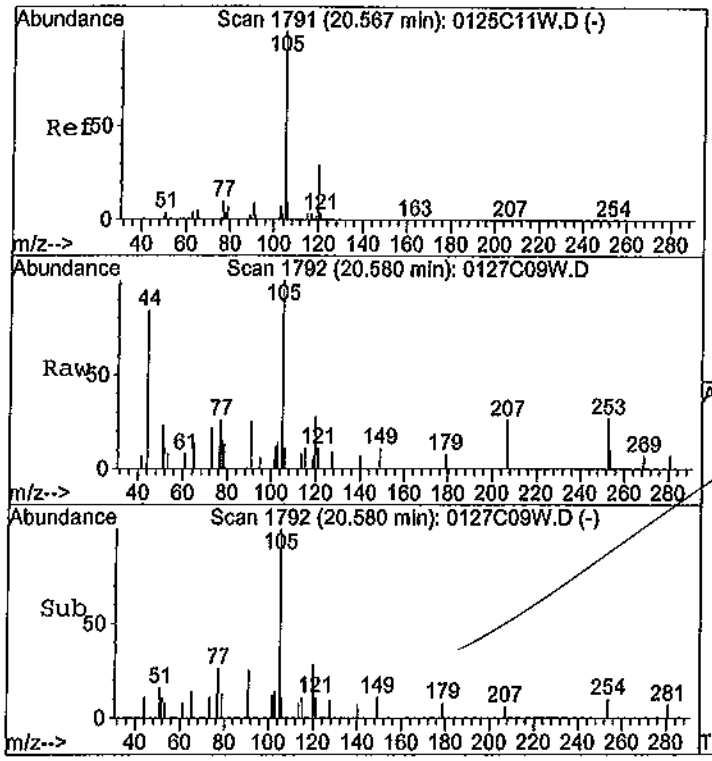
Data File : M:\CHICO\DATA\C120125\0127C09W.D
Acq On : 27 Jan 12 15:01
Sample : 120127A BLK-1WC
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Jan 30 16:52 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration

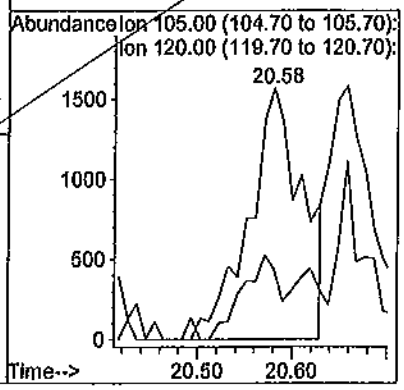


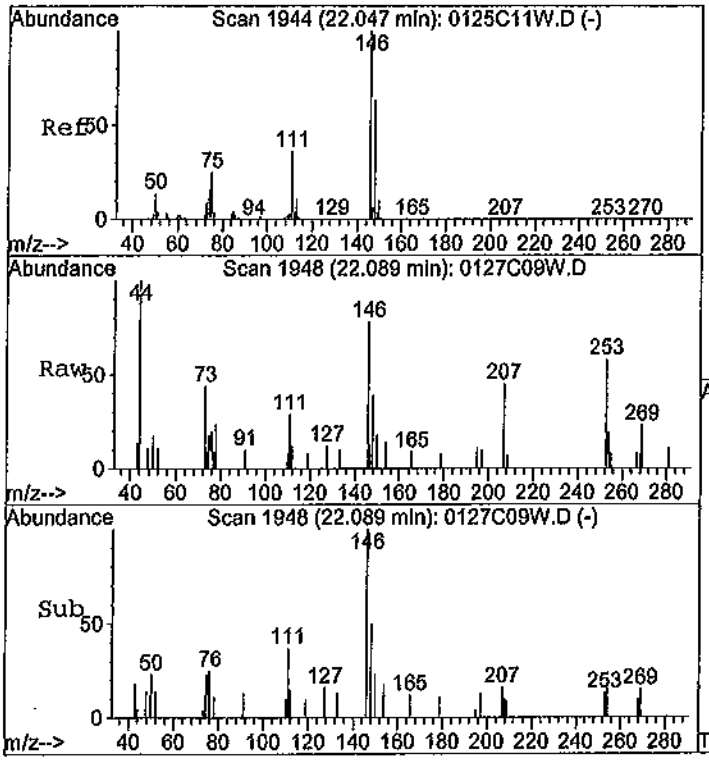


#78
4-Ethyltoluene
Concen: 0.11269 ppb
RT: 20.58 min Scan# 1792
Delta R.T. 0.01 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion:105 Resp: 6174

Ion	Ratio	Lower	Upper
105	100		
120	28.0	20.3	37.7

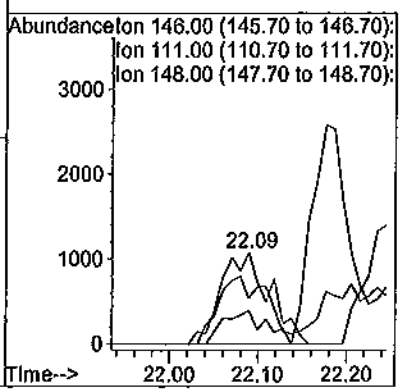


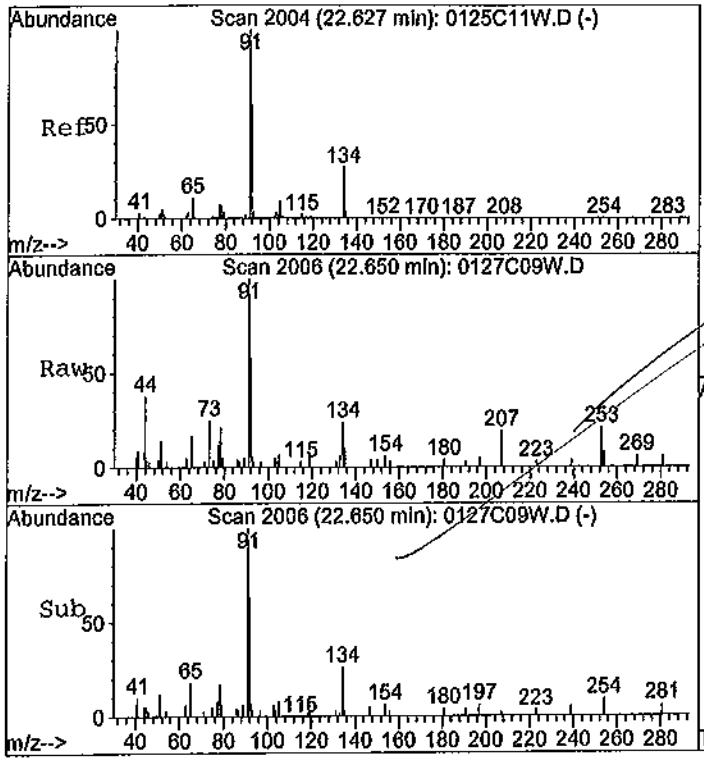


#87
1,3-DCB
Concen: 0.11605 ppb
RT: 22.09 min Scan# 1948
Delta R.T. 0.04 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion:146 Resp: 4107

Ion	Ratio	Lower	Upper
146	100		
111	36.8	25.0	46.4
148	50.5	44.0	81.8

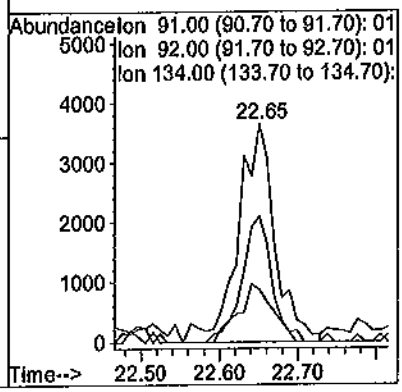




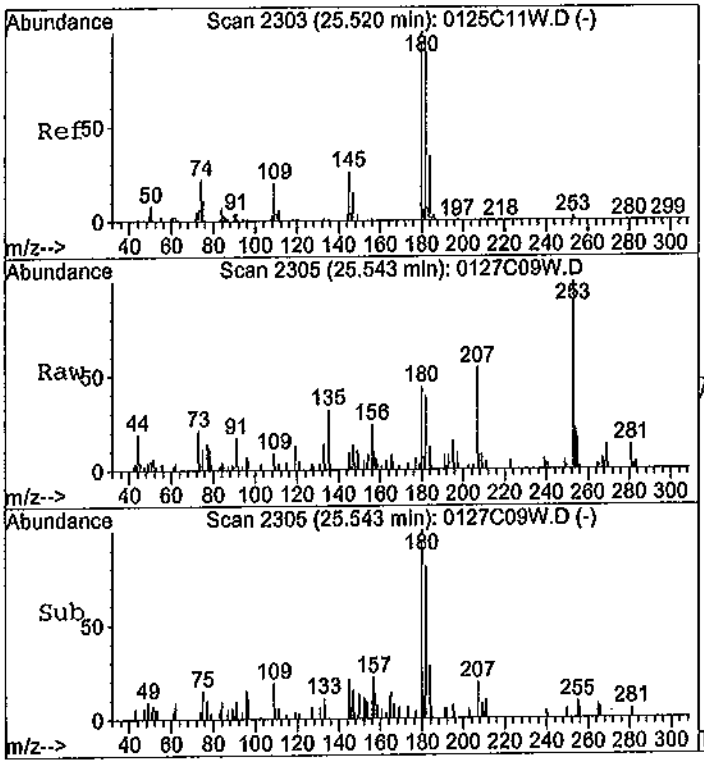
#90
n-Butylbenzene
Concen: 0.18556 ppb
RT: 22.65 min Scan# 2006
Delta R.T. 0.02 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion: 91 Resp: 11918

Ion	Ratio	Lower	Upper
91	100		
92	57.6	41.8	77.6
134	24.0	19.2	35.6



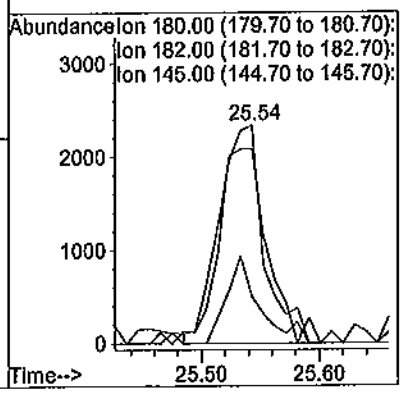
N.1 DF 2/10/12

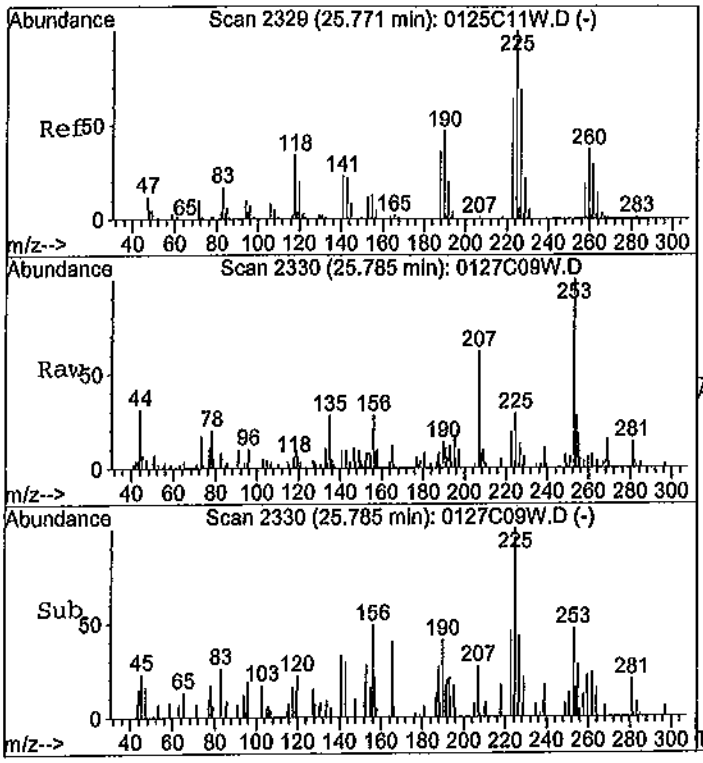


#93
1,2,4-Trichlorobenzene
Concen: 0.27618 ppb
RT: 25.54 min Scan# 2305
Delta R.T. 0.02 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion:180 Resp: 2343

Ion	Ratio	Lower	Upper
180	100		
182	88.9	67.7	125.7
145	21.3	18.2	33.8

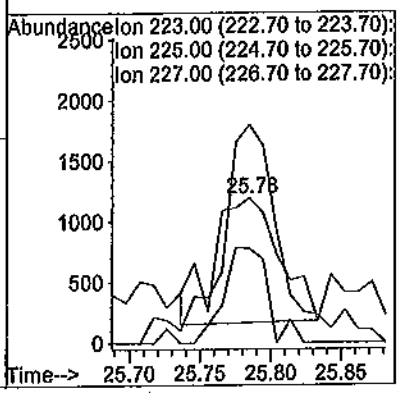




#94
Hexachlorobutadiene
Concen: 0.26455 ppb
RT: 25.78 min Scan# 2330
Delta R.T. 0.01 min
Lab File: 0127C09W.D
Acq: 27 Jan 12 15:01

Tgt Ion:223 Resp: 3303

Ion	Ratio	Lower	Upper
223	100		
225	166.9	109.3	203.1
227	76.7	75.7	140.7



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C09W.D Vial: 1
Acq On : 27 Jan 12 15:01 Operator: RS, ARS
Sample : 120127A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:54 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1109844	25.00000 ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1312811	25.00000 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1350220	25.00000 ppb	0.00

System Monitoring Compounds

Target Compounds					Qvalue
2) Gasoline	15.58	TIC	19994327m	15.18199 ppb	100

MD
No gasoline pattern. DAR 2/9/2012

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

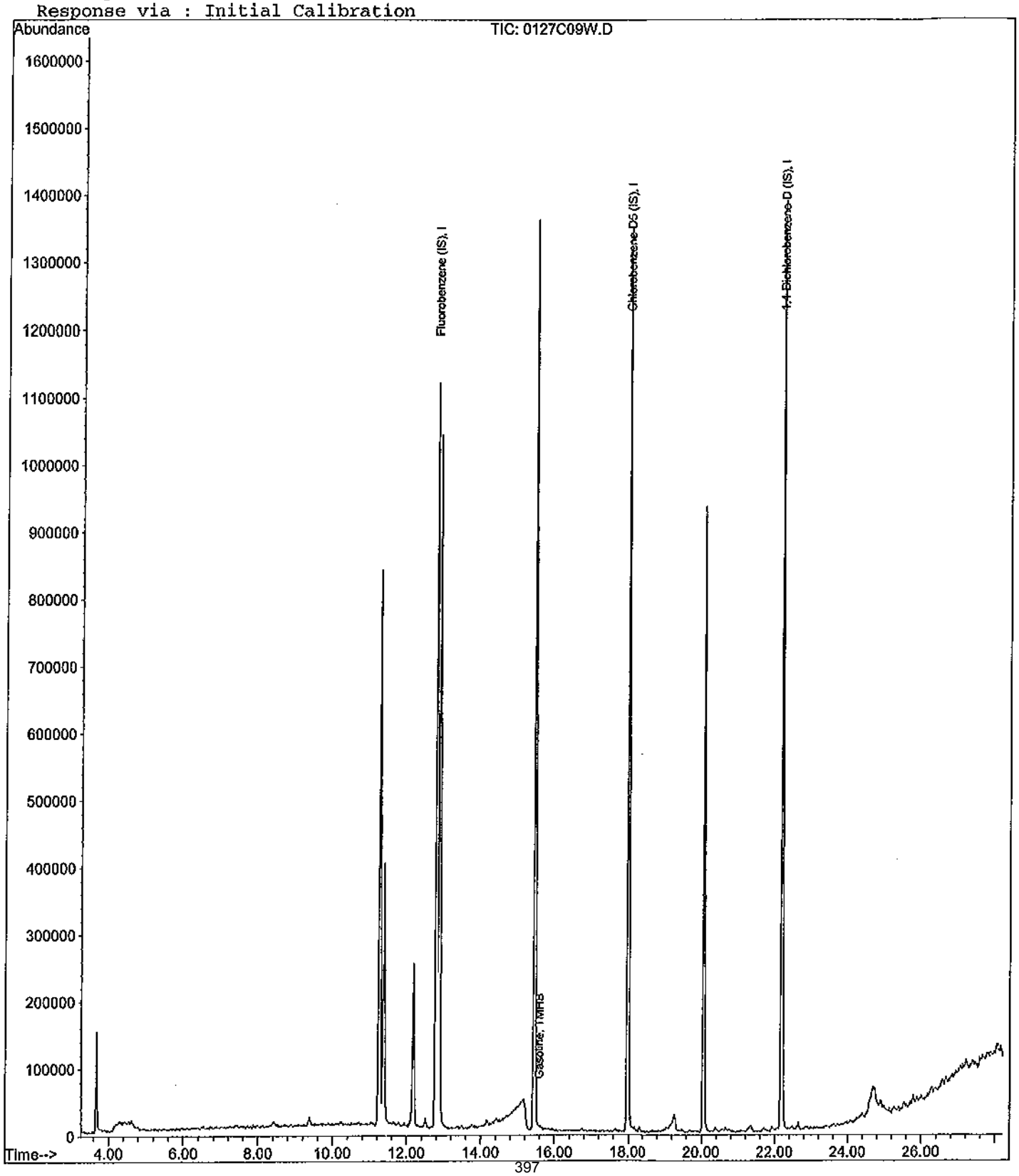
0127C09W.D CGAS.M Tue Feb 07 09:57:52 2012 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C09W.D Vial: 1
Acq On : 27 Jan 12 15:01 Operator: RS, ARS
Sample : 120127A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:54 2012 Quant Results File: CGAS.RES

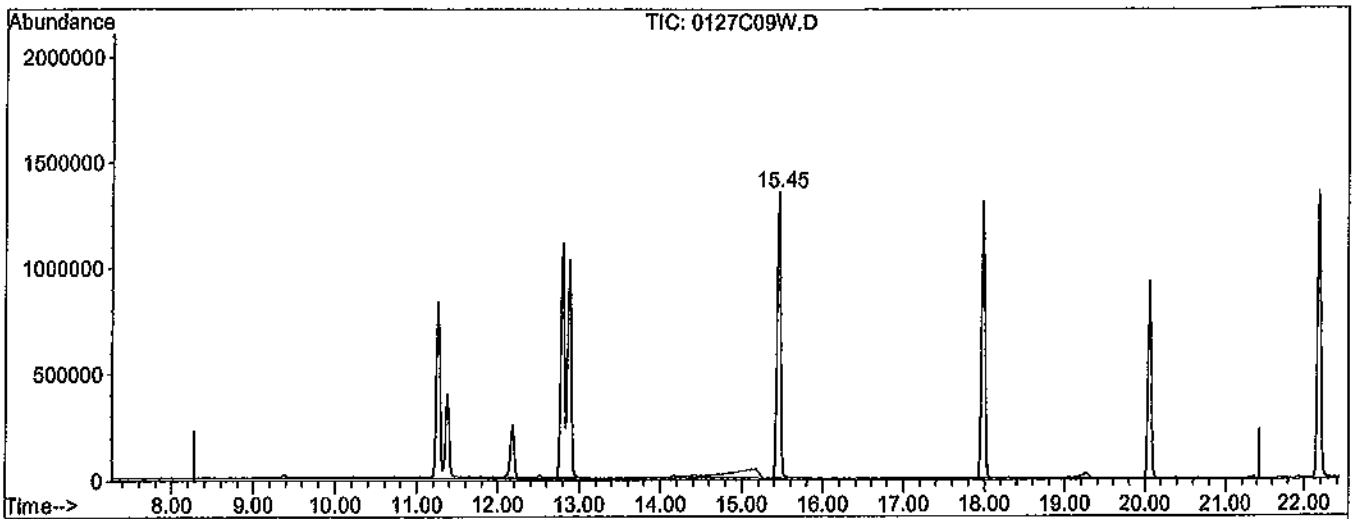
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

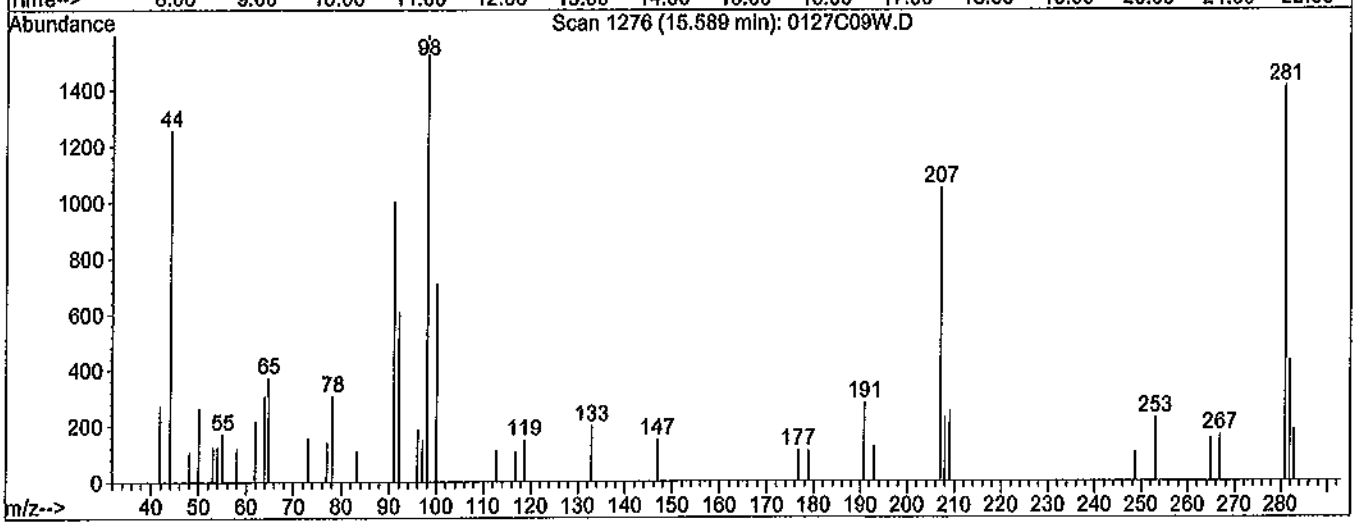


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C09W.D Vial: 1
Acq On : 27 Jan 12 15:01 Operator: RS, ARS
Sample : 120127A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:54 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0127C09W.D

(2) Gasoline (TMHB)

15.58min 15.1820ppb m

response 19994327

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.68#
0.00	0.00	1.95#
0.00	0.00	0.00

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120131W-53809 - 163745**
Batch ID: #86RHB-120131AT

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	01/31/12	01/31/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	01/31/12	01/31/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	01/31/12	01/31/12
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	01/31/12	01/31/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	01/31/12	01/31/12
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	01/31/12	01/31/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	01/31/12	01/31/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	01/31/12	01/31/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	01/31/12	01/31/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	01/31/12	01/31/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	01/31/12	01/31/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	01/31/12	01/31/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	01/31/12	01/31/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	01/31/12	01/31/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	01/31/12	01/31/12
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	01/31/12	01/31/12
BLANK	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	01/31/12	01/31/12

Quant Method: TALLW.M
Run #: 0131T24
Instrument: Thor
Sequence: T120131
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/10/12 11:22:35 AM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120131W-53809 - 163745**
Batch ID: #86RHB-120131AT

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	01/31/12	01/31/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	01/31/12	01/31/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	01/31/12	01/31/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	01/31/12	01/31/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	01/31/12	01/31/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	01/31/12	01/31/12
BLANK	SURROGATE: 1,2-DICHLOROET	96.9	70-120			%	01/31/12	01/31/12
BLANK	SURROGATE: 4-BROMOFLUORO	99.3	75-120			%	01/31/12	01/31/12
BLANK	SURROGATE: DIBROMOFLUOR	98.9	85-115			%	01/31/12	01/31/12
BLANK	SURROGATE: TOLUENE-D8 (S)	100	85-120			%	01/31/12	01/31/12

Quant Method: TALLW.M
Run #: 0131T24
Instrument: Thor
Sequence: T120131
Initials: SV

GC SC-Blank-REG MDLs
Printed: 02/10/12 11:22:35 AM

Quantitation Report (QT Reviewed)

Data File : M:\THOR\DATA\T120131\0131T24W.D Vial: 24
Acq On : 31 Jan 12 21:00 Operator:
Sample : 120131A BLK-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:16 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.74	96	683584	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	544384	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	266368	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	317205	32.30867 ppb	-0.01
Spiked Amount 32.661			Recovery = 98.922%		
36) 1,2-DCA-D4(S)	6.34	65	319232	29.92555 ppb	-0.01
Spiked Amount 30.896			Recovery = 96.862%		
56) Toluene-D8(S)	8.44	98	1170437	34.10194 ppb	0.00
Spiked Amount 33.937			Recovery = 100.486%		
64) 4-Bromofluorobenzene(S)	11.06	95	425683	32.91393 ppb	0.00
Spiked Amount 33.154			Recovery = 99.277%		

Target Compounds Qvalue

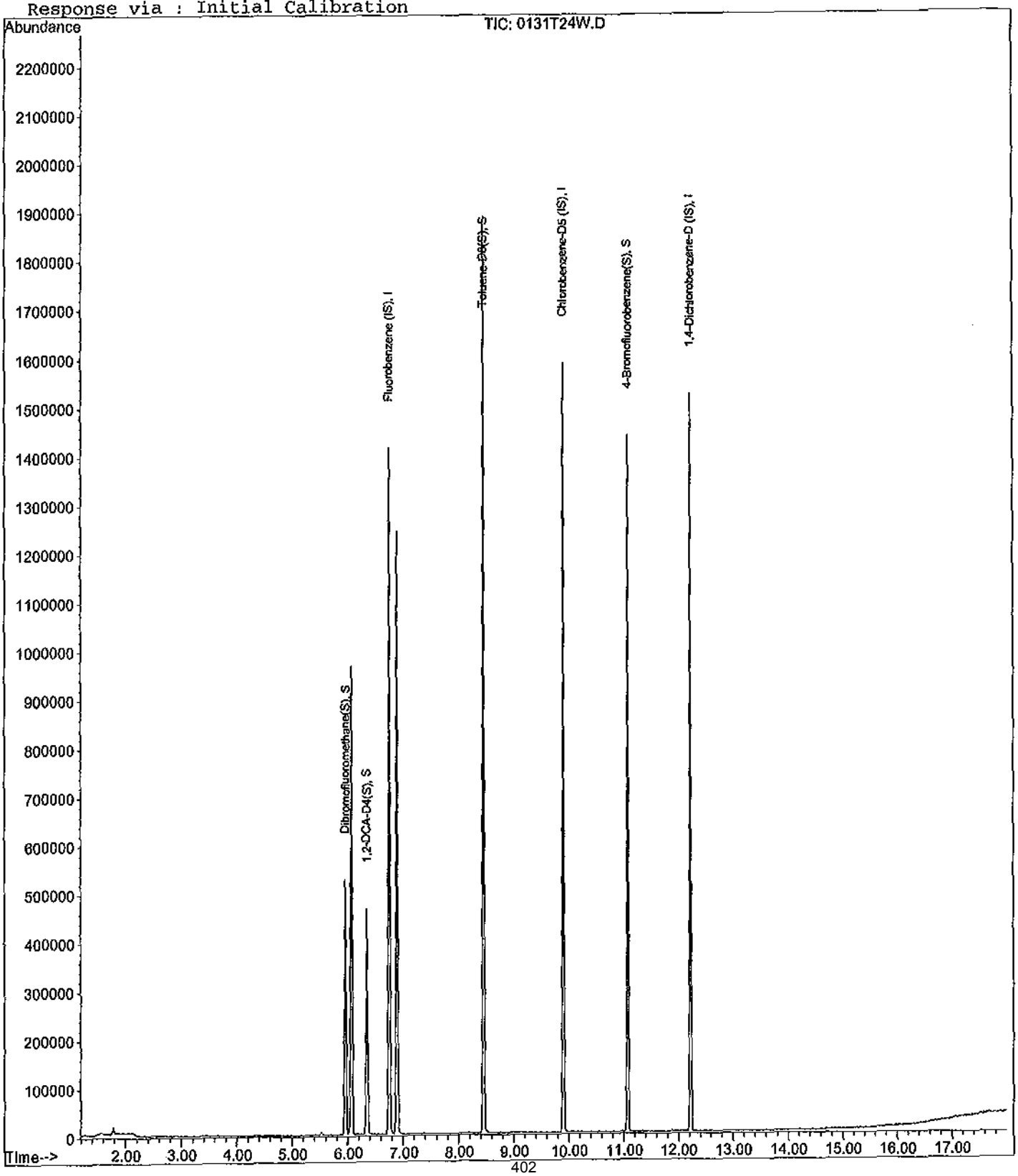
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T24W.D Vial: 24
Acq On : 31 Jan 12 21:00 Operator:
Sample : 120131A BLK-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 9:16 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120127W-53807 LCS - 163743**
Batch ID: #86RHB-120127AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	11.0	110	80-130
1,1,1-TRICHLOROETHANE	10.00	11.1	111	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.9	109	65-130
1,1,2-TRICHLOROETHANE	10.00	11.9	119	75-125
1,1-DICHLOROETHANE	10.00	11.6	116	70-135
1,1-DICHLOROETHENE	10.00	10.5	105	70-130
1,2,3-TRICHLOROPROPANE	10.00	8.84	88.4	75-125
1,2,4-TRICHLOROBENZENE	10.00	11.7	117	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	10.4	104	50-130
1,2-DIBROMOETHANE	10.00	10.3	103	70-130
1,2-DICHLOROBENZENE	10.00	10.6	106	70-120
1,2-DICHLOROETHANE	10.00	10.6	106	70-130
1,2-DICHLOROPROPANE	10.00	11.1	111	75-125
1,3-DICHLOROBENZENE	10.00	11.0	110	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	21.5	108	70-130
1,4-DICHLOROBENZENE	10.00	10.7	107	75-125
2-BUTANONE	10.00	9.46	94.6	30-150
4-METHYL-2-PENTANONE	10.00	9.44	94.4	60-135
ACETONE	10.00	10.7	107	40-140
BENZENE	10.00	11.1	111	80-120
BROMODICHLOROMETHANE	10.00	11.4	114	75-120
BROMOFORM	10.00	9.00	90.0	70-130
BROMOMETHANE	10.00	10.7	107	30-145
CARBON TETRACHLORIDE	10.00	10.4	104	65-140
CHLOROBENZENE	10.00	11.0	110	80-120
CHLORODIBROMOMETHANE	10.00	10.8	108	60-135

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	01/27/12
Analysis Date :	01/27/12
Instrument :	Chico
Run :	0127C03
Initials :	SV

Printed: 02/10/12 9:17:44 AM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120127W-53807 LCS - 163743**
Batch ID: #86RHB-120127AC

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	10.9	109	60-135
CHLOROFORM	10.00	11.5	115	65-135
CHLOROMETHANE	10.00	8.70	87.0	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.6	106	70-125
ETHYLBENZENE	10.00	11.0	110	75-125
GASOLINE	300	337	112	75-125
HEXACHLOROBUTADIENE	10.00	11.1	111	50-140
METHYL TERT-BUTYL ETHER	10.00	9.95	99.5	65-125
METHYLENE CHLORIDE	10.00	11.0	110	55-140
STYRENE	10.00	11.2	112	65-135
TETRACHLOROETHENE	10.00	11.6	116	45-150
TOLUENE	10.00	11.6	116	75-120
TRANS-1,2-DICHLOROETHENE	10.00	11.7	117	60-140
TRICHLOROETHENE	10.00	11.7	117	70-125
VINYL CHLORIDE	10.00	11.7	117	50-145
XYLENES (TOTAL)	30.0	34.2	114	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	22.9	23.2	101	70-120
SURROGATE: 4-BROMOFLUOROBENZE	26.8	25.7	96.0	75-120
SURROGATE: DIBROMOFLUOROMETH	24.1	25.2	104	85-115
SURROGATE: TOLUENE-D8 (S)	24.8	25.1	101	85-120

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	01/27/12
Analysis Date :	01/27/12
Instrument :	Chico
Run :	0127C03
Initials :	SV

Printed: 02/10/12 9:17:44 AM

APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B VOCS + GAS WATER

APPL ID: **120127W-53809 LCS - 163817**
Batch ID: #86RHB-120127AC1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
ACETONE	10.00	10.7	107	40-140
SURROGATE: 1,2-DICHLOROETHANE-D	22.9	23.2	101	70-120
SURROGATE: 4-BROMOFLUOROBENZE	26.8	25.7	96.0	75-120
SURROGATE: DIBROMOFLUOROMETH	24.1	25.2	104	85-115
SURROGATE: TOLUENE-D8 (S)	24.8	25.1	101	85-120

Comments:

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	01/27/12
Analysis Date :	01/27/12
Instrument :	Chico
Run :	0127C03
Initials :	ARS

Printed: 02/10/12 11:20:23 AM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C03W.D Vial: 1
Acq On : 27 Jan 12 11:18 Operator: RS, ARS
Sample : 120127A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.78	96	593908	25.00000 ppb		0.01
54) Chlorobenzene-D5 (IS)	17.98	117	495744	25.00000 ppb		0.01
70) 1,4-Dichlorobenzene-D (IS)	22.17	152	259520	25.00000 ppb		0.01
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.37	111	398968	25.23506 ppb		0.01
Spiked Amount 24.119			Recovery	= 104.626%		
37) 1,2-DCA-D4(S)	12.17	65	264133	23.15566 ppb		0.01
Spiked Amount 22.874			Recovery	= 101.232%		
55) Toluene-D8(S)	15.44	98	1569371	25.05070 ppb		0.01
Spiked Amount 24.755			Recovery	= 101.195%		
63) 4-Bromofluorobenzene(S)	20.05	95	563187	25.72241 ppb		0.01
Spiked Amount 26.777			Recovery	= 96.059%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	4.06	85	206927	9.88277 ppb		97
3) Freon 114	4.31	85	103140	11.37726 ppb		98
4) Chloromethane	4.52	50	77823	8.69892 ppb		99
5) Vinyl chloride	4.80	62	77896	11.74424 ppb		91
6) Bromomethane	5.69	94	43048	10.67648 ppb		88
7) Chloroethane	5.88	64	50525	10.90472 ppb		100
8) Dichlorofluoromethane	5.97	67	411111	12.12331 ppb		96
9) Trichlorofluoromethane	6.47	103	47280	10.59224 ppb		94
10) Acetonitrile	7.62	41	75817	120.35811 ug/l		100
11) Acrolein	7.11	56	17812	133.28685 ppb		98
12) Acetone	7.25	43	14083	10.66536 ppb	#	86
13) Freon-113	7.41	101	157093	11.45994 ppb		89
14) 1,1-DCE	7.63	96	90654	10.45368 ppb		84
15) t-Butanol	7.72	59	8384	128.65365 ppb	#	93
16) Methyl Acetate	8.15	43	43802	9.59877 ppb		97
17) Iodomethane	8.12	142	226666	11.70477 ppb		100
18) Acrylonitrile	8.52	53	19071	11.34711 ppb		90
19) Methylene chloride	8.43	84	115177	10.99920 ppb		91
20) Carbon disulfide	8.51	76	95216	10.97798 ppb		97
21) Methyl t-butyl ether (MtBE	8.84	73	217158	9.95162 ppb		97
22) Trans-1,2-DCE	9.05	96	116372	11.73985 ppb		99
23) Diisopropyl Ether	9.71	45	514646	11.05569 ppb		98
24) 1,1-DCA	9.73	63	272370	11.61695 ppb		98
25) Vinyl Acetate	9.38	43	27696	11.51451 ppb		98
26) Ethyl tert Butyl Ether	10.39	59	341509	10.78028 ppb		98
27) MEK (2-Butanone)	10.38	43	12060	9.46092 ppb		95
28) Cis-1,2-DCE	10.76	96	166222	10.59299 ppb		96
29) 2,2-Dichloropropane	10.76	77	233364	11.91211 ppb		100
30) Chloroform	11.04	83	288979	11.53354 ppb		98
31) Bromochloromethane	11.26	128	56430	11.84644 ppb		85
33) 1,1,1-TCA	11.79	97	239566	11.07452 ppb		98
34) Cyclohexane	11.94	56	230891	11.20729 ppb		94
35) 1,1-Dichloropropene	12.05	75	163135	10.94562 ppb		97
36) 2,2,4-Trimethylpentane	12.12	57	448745	11.20012 ppb		99
38) Carbon Tetrachloride	12.24	117	159990	10.39756 ppb		94
39) Tert Amyl Methyl Ether	12.30	73	260987	10.44579 ppb		95
40) 1,2-DCA	12.32	62	111671	10.56284 ppb		94
41) Benzene	12.44	78	549488	11.09682 ppb		97
42) TCE	13.48	95	159779	11.68668 ppb		96

Algorithm Check: $\frac{(77896)(25)}{(593908)(0.2794421)}$ a) = 11.744248 79455 ✓ ARS 1/31/12

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C03W.D
Acq On : 27 Jan 12 11:18
Sample : 120127A LCS-1WC
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Pentanone	13.15	43	436494	129.75465 ppb		97
44)	1,2-Dichloropropane	13.71	63	145909	11.12942 ppb	#	96
45)	Bromodichloromethane	14.06	83	172853	11.36905 ppb		97
46)	Methyl Cyclohexane	13.76	83	220156	11.53752 ppb		100
47)	Dibromomethane	14.12	93	59909	11.13149 ppb		89
48)	2-Chloroethyl vinyl ether	14.52	63	38877	9.63187 ppb	#	89
49)	1-Bromo-2-chloroethane	14.82	63	127690	11.36993 ppb		86
50)	Cis-1,3-Dichloropropene	14.95	75	191518	10.52664 ppb		94
51)	Toluene	15.58	91	677066	11.64919 ppb		98
52)	Trans-1,3-Dichloropropene	15.74	75	138172	10.96313 ppb		98
53)	1,1,2-TCA	16.02	83	71071	11.88216 ppb		91
56)	1,2-EDB	17.27	107	76014	10.29867 ppb		98
57)	Tetrachloroethene	16.73	164	155497	11.56223 ppb		96
58)	1-Chlorohexane	17.65	91	290855	11.76186 ppb		99
59)	1,1,1,2-Tetrachloroethane	18.10	131	153219	11.02555 ppb		89
60)	m&p-Xylene	18.30	106	674004	22.97781 ppb		96
61)	o-Xylene	19.04	106	326383	11.20392 ppb		90
62)	Styrene	19.06	104	488478	11.22216 ppb		96
64)	2-Hexanone	16.05	43	28607	10.63893 ppb		94
65)	1,3-Dichloropropane	16.44	76	144224	10.62053 ppb		99
66)	Dibromochloromethane	16.91	129	106363	10.78241 ppb		97
67)	Chlorobenzene	18.04	112	466961	10.96896 ppb		98
68)	Ethylbenzene	18.15	91	856272	11.02266 ppb		100
69)	Bromoform	19.57	173	52823	9.00017 ppb		89
71)	MIBK (methyl isobutyl keto	14.62	43	44915	9.44253 ppb	#	82
72)	Isopropylbenzene	19.67	105	889090	11.46103 ppb		98
73)	1,1,2,2-Tetrachloroethane	19.83	83	78084	10.89728 ppb		97
74)	1,2,3-Trichloropropane	20.09	110	7370	8.83575 ppb		100
75)	t-1,4-Dichloro-2-Butene	20.16	53	17579	9.90566 ppb	#	73
76)	Bromobenzene	20.40	156	198279	10.78428 ppb		97
77)	n-Propylbenzene	20.38	91	1071977	11.10819 ppb		98
78)	4-Ethyltoluene	20.58	105	627697	11.19677 ppb		98
79)	2-Chlorotoluene	20.68	91	670568	10.98117 ppb		99
80)	1,3,5-Trimethylbenzene	20.65	105	726307	11.50731 ppb		98
81)	4-Chlorotoluene	20.75	91	581979	10.74791 ppb		94
82)	Tert-Butylbenzene	21.29	119	780643	10.80242 ppb		98
83)	1,2,4-Trimethylbenzene	21.35	105	717360	11.43124 ppb		99
84)	Sec-Butylbenzene	21.69	105	1023256	11.47728 ppb		99
85)	p-Isopropyltoluene	21.92	119	818160	11.42699 ppb		98
86)	Benzyl Chloride	22.37	91	149105	10.30196 ppb		99
87)	1,3-DCB	22.07	146	397923	10.98919 ppb		97
88)	1,4-DCB	22.23	146	377598	10.72613 ppb		99
89)	Hexachloroethane	23.54	117	167277	10.54410 ppb		98
90)	n-Butylbenzene	22.64	91	743128	11.30769 ppb		99
91)	1,2-DCB	22.86	146	321677	10.59693 ppb		97
92)	1,2-Dibromo-3-chloropropan	24.08	155	11432	10.36081 ppb		76
93)	1,2,4-Trichlorobenzene	25.53	180	101656	11.71079 ppb		98
94)	Hexachlorobutadiene	25.77	223	116891	11.06348 ppb		96
95)	Naphthalene	25.88	128	286286	11.02681 ppb		97
96)	1,2,3-Trichlorobenzene	26.24	180	81708	11.70539 ppb		97

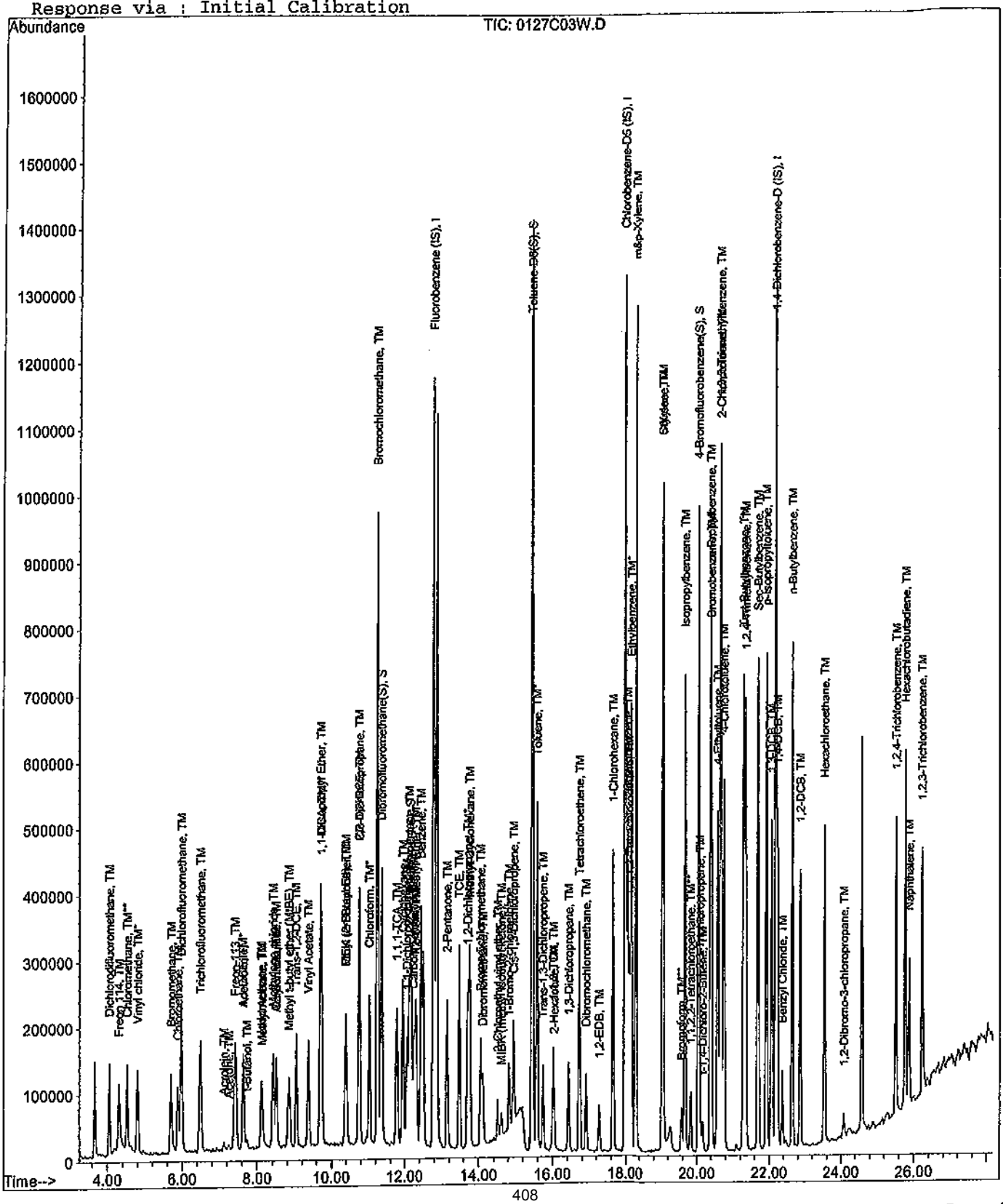
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C03W.D Vial: 1
Acq On : 27 Jan 12 11:18 Operator: RS, ARS
Sample : 120127A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Jan 27 14:06 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0127C06W.D Vial: 1
Acq On : 27 Jan 12 13:10 Operator: RS, ARS
Sample : LCS gas 300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:39 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1198132	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1400448	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1498629	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	55052544m	336.60022	ppb	100

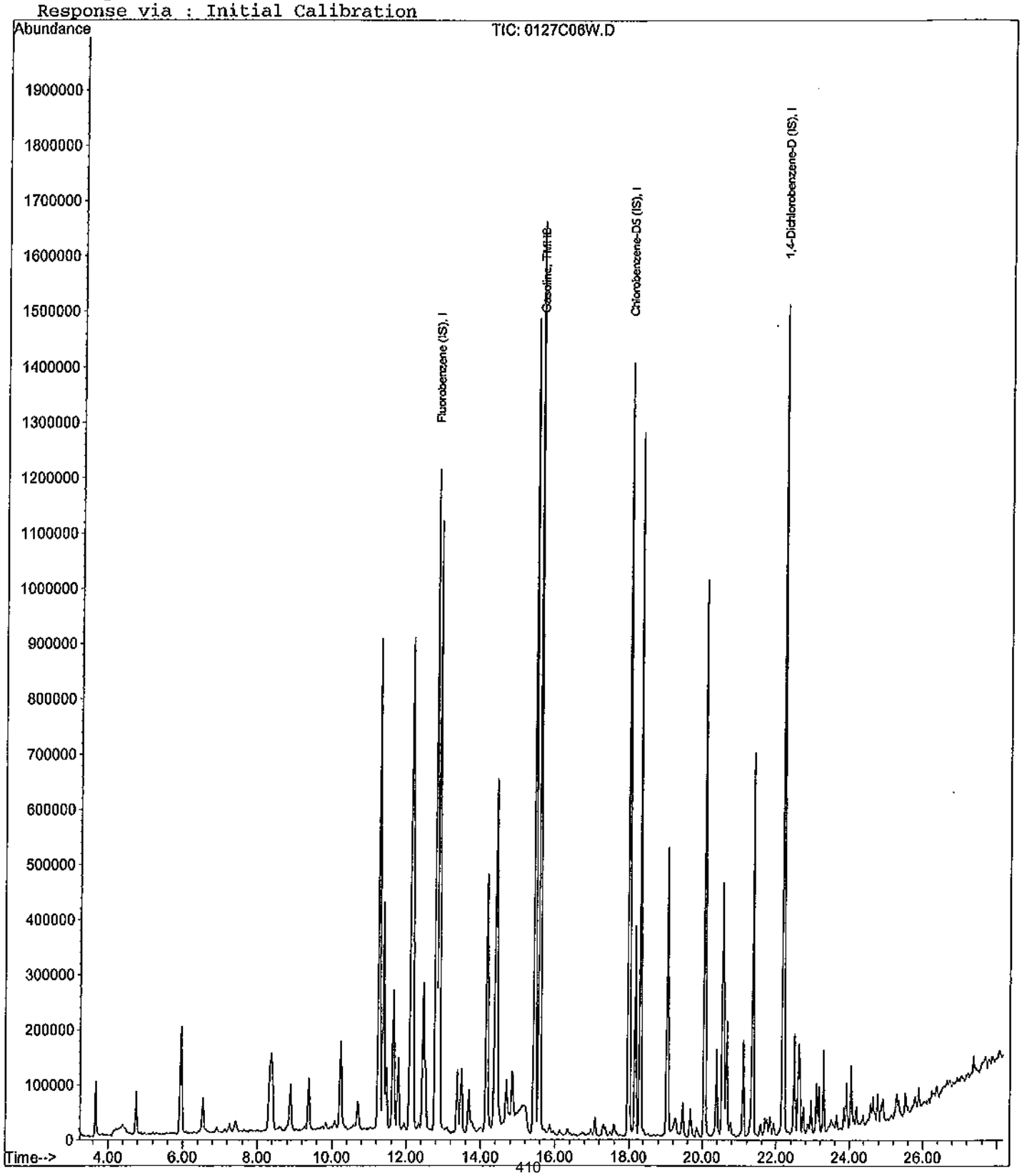
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C06W.D Vial: 1
Acq On : 27 Jan 12 13:10 Operator: RS, ARS
Sample : LCS gas 300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:39 2012 Quant Results File: CGAS.RES

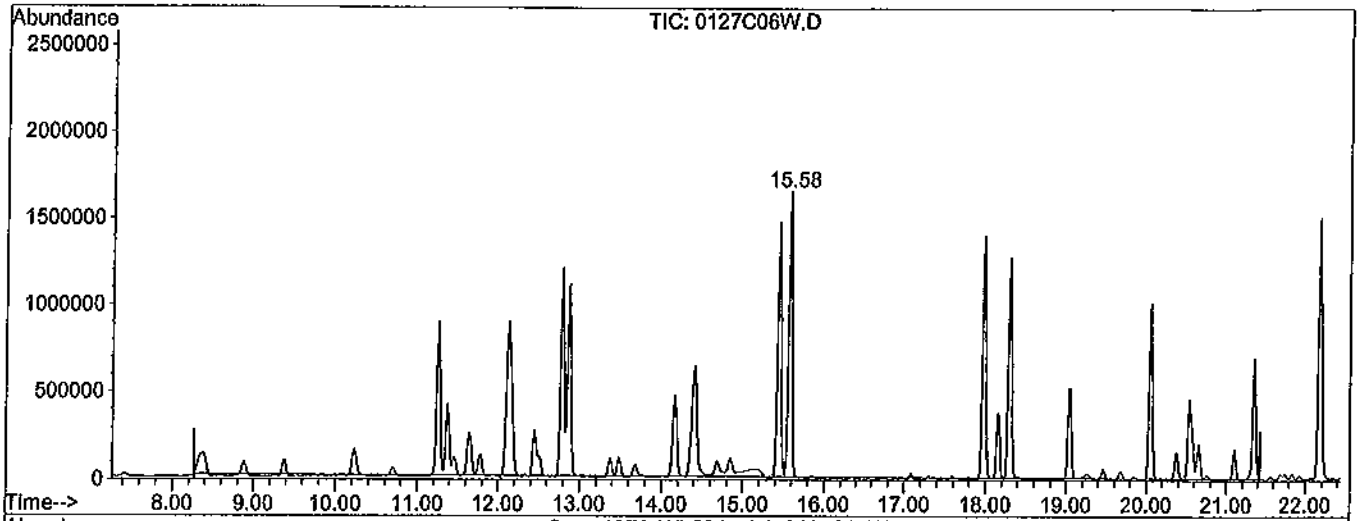
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

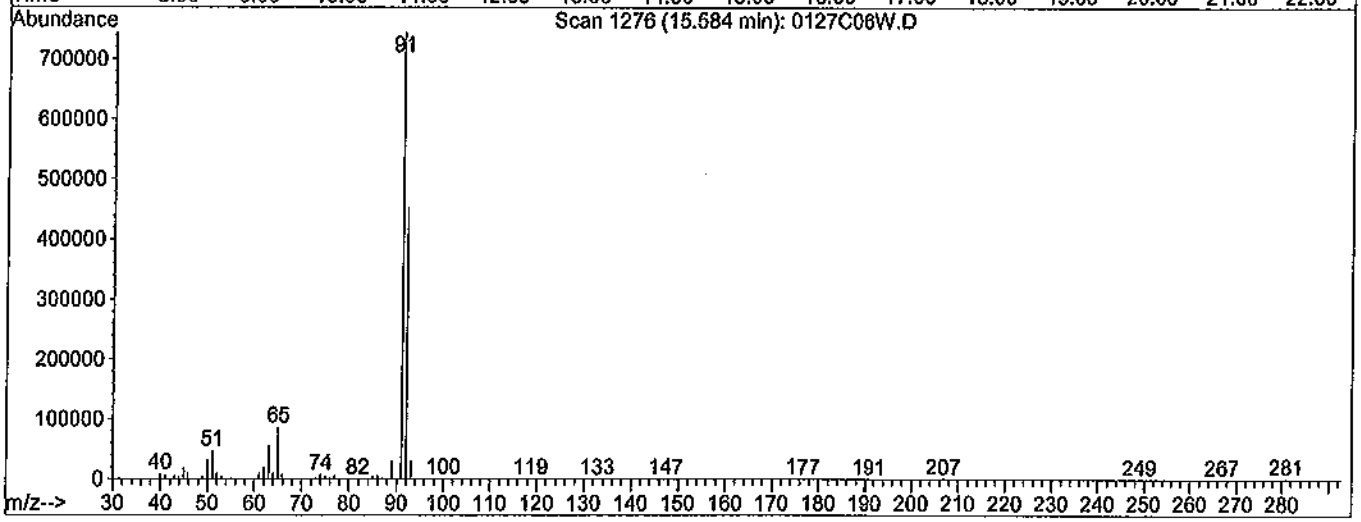


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0127C06W.D Vial: 1
Acq On : 27 Jan 12 13:10 Operator: RS, ARS
Sample : LCS gas 300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 9 12:54 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0127C06W.D

(2) Gasoline (TMHB)

15.58min 336.6002ppb m

response 55052544

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.27#
0.00	0.00	0.78#
0.00	0.00	0.00

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120131W-53809 LCS - 163745**
Batch ID: #86RHB-120131AT

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	10.0	100	80-130
1,1,1-TRICHLOROETHANE	10.00	9.94	99.4	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.1	101	65-130
1,1,2-TRICHLOROETHANE	10.00	10.1	101	75-125
1,1-DICHLOROETHANE	10.00	9.88	98.8	70-135
1,1-DICHLOROETHENE	10.00	10.2	102	70-130
1,2,3-TRICHLOROPROPANE	10.00	9.69	96.9	75-125
1,2,4-TRICHLOROBENZENE	10.00	9.71	97.1	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.48	84.8	50-130
1,2-DIBROMOETHANE	10.00	9.83	98.3	70-130
1,2-DICHLOROBENZENE	10.00	9.58	95.8	70-120
1,2-DICHLOROETHANE	10.00	9.93	99.3	70-130
1,2-DICHLOROPROPANE	10.00	9.88	98.8	75-125
1,3-DICHLOROBENZENE	10.00	9.62	96.2	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	20.0	100	70-130
1,4-DICHLOROBENZENE	10.00	9.55	95.5	75-125
2-BUTANONE	10.00	11.1	111	30-150
4-METHYL-2-PENTANONE	10.00	10.2	102	60-135
BENZENE	10.00	9.84	98.4	80-120
BROMODICHLOROMETHANE	10.00	9.88	98.8	75-120
BROMOFORM	10.00	10.5	105	70-130
BROMOMETHANE	10.00	8.46	84.6	30-145
CARBON TETRACHLORIDE	10.00	10.3	103	65-140
CHLOROBENZENE	10.00	9.84	98.4	80-120
CHLORODIBROMOMETHANE	10.00	9.84	98.4	60-135
CHLOROETHANE	10.00	10.1	101	60-135

Comments: _____

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	01/31/12
Analysis Date :	01/31/12
Instrument :	Thor
Run :	0131T17
Initials :	SV

Printed: 02/10/12 11:21:54 AM

APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: **120131W-53809 LCS - 163745**
Batch ID: #86RHB-120131AT

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROFORM	10.00	9.81	98.1	65-135
CHLOROMETHANE	10.00	9.62	96.2	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.2	102	70-125
ETHYLBENZENE	10.00	9.97	99.7	75-125
GASOLINE	300	337	112	75-125
HEXACHLOROBUTADIENE	10.00	9.58	95.8	50-140
METHYL TERT-BUTYL ETHER	10.00	10.0	100	65-125
METHYLENE CHLORIDE	10.00	10.1	101	55-140
STYRENE	10.00	10.1	101	65-135
TETRACHLOROETHENE	10.00	10.0	100	45-150
TOLUENE	10.00	9.99	99.9	75-120
TRANS-1,2-DICHLOROETHENE	10.00	9.84	98.4	60-140
TRICHLOROETHENE	10.00	9.99	99.9	70-125
VINYL CHLORIDE	10.00	9.83	98.3	50-145
XYLENES (TOTAL)	30.0	30.3	101	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	30.9	30.6	99.0	70-120
SURROGATE: 4-BROMOFLUOROBENZE	33.2	34.0	103	75-120
SURROGATE: DIBROMOFLUOROMETH	32.7	32.0	98.0	85-115
SURROGATE: TOLUENE-D8 (S)	33.9	33.2	97.8	85-120

Comments: _____

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	01/31/12
Analysis Date :	01/31/12
Instrument :	Thor
Run :	0131T17
Initials :	SV

Printed: 02/10/12 11:21:54 AM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 (SS) Operator:
Sample : 120131A LCS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12/25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	721472	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	577472	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	323520	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	331202	31.96277 ppb	0.00
Spiked Amount 32.661			Recovery	= 97.863%	
36) 1,2-DCA-D4(S)	6.34	65	344866	30.63082 ppb	0.00
Spiked Amount 30.896			Recovery	= 99.144%	
56) Toluene-D8(S)	8.44	98	1208016	33.18014 ppb	0.00
Spiked Amount 33.937			Recovery	= 97.770%	
64) 4-Bromofluorobenzene(S)	11.06	95	466225	33.98313 ppb	0.00
Spiked Amount 33.154			Recovery	= 102.501%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.28	85	89447	11.16976 ppb	99
3) Freon 114	1.40	85	49840	10.94305 ppb	100
4) Chloromethane	1.44	50	102916	9.61880 ppb	97
5) Vinyl chloride	1.55	62	#106116	9.83271 ppb	98
6) Bromomethane	1.85	94	61157	8.46462 ppb	99
7) Chloroethane	1.96	64	68671	10.14348 ppb	97
8) Dichlorofluoromethane	2.17	67	174035	10.04930 ppb	100
9) Trichlorofluoromethane	2.23	101	141224	10.39160 ppb	97
10) Acrolein	2.70	55	19380	122.45436 ppb	82
11) Acetone	2.90	43	22126	11.66013 ppb	83
12) Freon-113	2.85	101	68650	10.31550 ppb	97
13) 1,1-DCE	2.81	61	61955	10.15051 ppb	98
14) t-Butanol	3.73	59	25856	128.07499 ppb	95
15) Methyl Acetate	3.36	43	58526	10.20702 ppb	90
16) Iodomethane	2.97	142	87651	8.47425 ppb	94
17) Acrylonitrile	3.82	52	19634	10.20718 ppb	83
18) Methylene chloride	3.45	84	65320	10.12472 ppb	93
19) Carbon disulfide	3.06	76	112630	10.22403 ppb	97
20) Methyl t-butyl ether (MtBE	3.93	73	219378	10.02685 ppb	98
21) Trans-1,2-DCE	3.87	96	47232	9.83680 ppb	96
22) Diisopropyl Ether	4.72	59	33543	10.14875 ppb	93
23) 1,1-DCA	4.51	63	128263	9.87703 ppb	99
24) Vinyl Acetate	4.72	87	81461	10.22826 ppb	94
25) Ethyl tert Butyl Ether	5.23	59	243541	10.10511 ppb	98
26) MEK (2-Butanone)	5.40	43	28640	11.05030 ppb	96
27) Cis-1,2-DCE	5.34	96	86319	10.19799 ppb	100
28) 2,2-Dichloropropane	5.33	77	100111	9.34709 ppb	97
29) Chloroform	5.77	83	152199	9.81369 ppb	100
30) Bromochloromethane	5.63	128	39123	9.79861 ppb	93
32) 1,1,1-TCA	5.97	97	113118	9.94124 ppb	100
33) Cyclohexane	6.04	41	55633	9.56586 ppb	92
34) 1,1-Dichloropropene	6.18	75	75028	10.22845 ppb	99
35) 2,2,4-Trimethylpentane	6.56	57	216542	10.23001 ppb	99
37) Carbon Tetrachloride	6.17	117	87181	10.25598 ppb	97
38) Tert Amyl Methyl Ether	6.61	73	226745	9.95409 ppb	98
39) 1,2-DCA	6.43	62	103571	9.93100 ppb	98
40) Benzene	6.41	78	276076	9.83690 ppb	99
41) TCE	7.16	95	79560	9.98950 ppb	98
42) 2-Pentanone	7.38	43	620548	123.92157 ppb	98

106116 x 25 / 721472 x 0.3740 = 9.83

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 Operator:
Sample : 120131A LCS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	1,2-Dichloropropane	7.39	63	92869	9.88423	ppb	99
44)	Bromodichloromethane	7.69	83	118663	9.87986	ppb	99
45)	Methyl Cyclohexane	7.37	83	112123	10.39645	ppb	99
46)	Dibromomethane	7.51	93	48958	9.67884	ppb	93
48)	MIBK (methyl isobutyl ket	9.20	43	26318	10.23709	ppb	92
49)	1-Bromo-2-chloroethane	8.00	63	66000	9.43354	ppb	94
50)	Cis-1,3-Dichloropropene	8.17	75	125120	10.01105	ppb	98
51)	Toluene	8.51	91	356062	9.98661	ppb	98
52)	Trans-1,3-Dichloropropene	8.74	75	107465	9.96425	ppb	97
53)	1,1,2-TCA	8.92	83	69763	10.10229	ppb	98
54)	2-Hexanone	9.20	43	43835	10.76441	ppb	92
57)	1,2-EDB	9.41	107	74425	9.82584	ppb	98
58)	Tetrachloroethene	9.07	166	89761	10.00617	ppb	99
59)	1-Chlorohexane	9.92	91	118519	9.88469	ppb	99
60)	1,1,1,2-Tetrachloroethane	10.00	131	95340	10.01828	ppb	99
61)	m&p-Xylene	10.16	106	335284	20.10672	ppb	99
62)	o-Xylene	10.55	106	169711	10.15200	ppb	100
63)	Styrene	10.56	104	287132	10.11534	ppb	95
65)	1,3-Dichloropropane	9.08	76	132096	10.15386	ppb	98
66)	Dibromochloromethane	9.31	129	88053	9.83659	ppb	99
67)	Chlorobenzene	9.92	112	265218	9.83615	ppb	99
68)	Ethylbenzene	10.04	91	437842	9.97019	ppb	100
69)	Bromoform	10.73	173	59065	10.52472	ppb	98
71)	Isopropylbenzene	10.93	105	428276	9.69843	ppb	98
72)	1,1,2,2-Tetrachloroethane	11.21	83	95608	10.05934	ppb	95
73)	1,2,3-Trichloropropane	11.24	110	28716	9.68623	ppb	94
74)	t-1,4-Dichloro-2-Butene	11.26	53	19163	8.88840	ppb	94
75)	Bromobenzene	11.21	156	123604	9.24575	ppb	100
76)	n-Propylbenzene	11.33	91	530268	9.76320	ppb	98
77)	4-Ethyltoluene	11.45	105	310148	9.88655	ppb	100
78)	2-Chlorotoluene	11.41	91	356117	9.77214	ppb	96
79)	1,3,5-Trimethylbenzene	11.51	105	380082	9.74058	ppb	95
80)	4-Chlorotoluene	11.52	91	366677	9.88548	ppb	99
81)	Tert-Butylbenzene	11.84	119	342707	9.33244	ppb	100
82)	1,2,4-Trimethylbenzene	11.88	105	383886	9.84287	ppb	98
83)	Sec-Butylbenzene	12.05	105	490146	9.90337	ppb	100
84)	p-Isopropyltoluene	12.20	119	408260	9.72986	ppb	100
85)	Benzyl Chloride	12.37	91	98692	8.59409	ppb	100
86)	1,3-DCB	12.15	146	233870	9.62097	ppb	97
87)	1,4-DCB	12.24	146	234146	9.55390	ppb	99
88)	n-Butylbenzene	12.61	91	352693	9.87557	ppb	98
89)	1,2-DCB	12.61	146	219383	9.58248	ppb	99
90)	Hexachloroethane	12.87	117	63020	9.39246	ppb	97
91)	1,2-Dibromo-3-chloropropan	13.37	157	10475	8.47961	ppb	96
92)	1,2,4-Trichlorobenzene	14.21	180	89120	9.71443	ppb	96
93)	Hexachlorobutadiene	14.40	225	82253	9.57986	ppb	94
94)	Naphthalene	14.45	128	240182	10.31438	ppb	98
95)	1,2,3-Trichlorobenzene	14.69	180	121722	9.86427	ppb	97

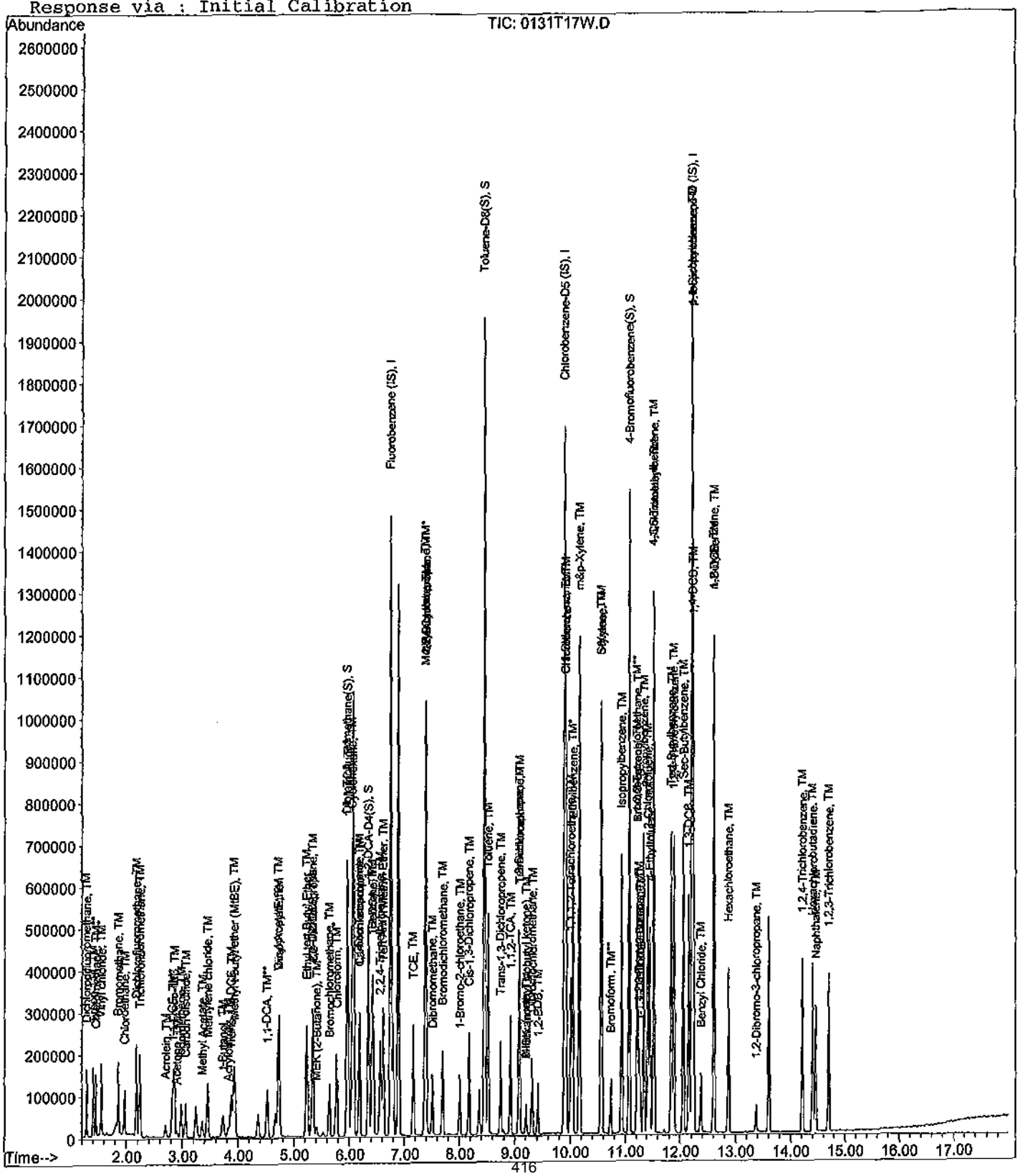
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0131T17W.D Vial: 17
Acq On : 31 Jan 12 17:46 Operator:
Sample : 120131A LCS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 1 10:46 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Matrix Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120201W-53807 MS - 163743**
Batch ID: #86RHB-120127AC
Sample ID: AY53807
Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	Matrix Result ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	ND	8.25	82.5	80-130
1,1,1-TRICHLOROETHANE	10.00	ND	8.74	87.4	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	ND	8.39	83.9	65-130
1,1,2-TRICHLOROETHANE	10.00	ND	8.12	81.2	75-125
1,1-DICHLOROETHANE	10.00	ND	8.60	86.0	70-135
1,1-DICHLOROETHENE	10.00	ND	8.63	86.3	70-130
1,2,3-TRICHLOROPROPANE	10.00	ND	7.73	77.3	75-125
1,2,4-TRICHLOROBENZENE	10.00	ND	9.38	93.8	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	ND	7.15	71.5	50-130
1,2-DIBROMOETHANE	10.00	ND	8.01	80.1	70-130
1,2-DICHLOROBENZENE	10.00	ND	8.29	82.9	70-120
1,2-DICHLOROETHANE	10.00	ND	8.28	82.8	70-130
1,2-DICHLOROPROPANE	10.00	ND	8.39	83.9	75-125
1,3-DICHLOROBENZENE	10.00	ND	8.48	84.8	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	ND	15.8	79.0	70-130
1,4-DICHLOROBENZENE	10.00	ND	8.48	84.8	75-125
2-BUTANONE	10.00	ND	8.66	86.6	30-150
4-METHYL-2-PENTANONE	10.00	ND	8.01	80.1	60-135
ACETONE	10.00	ND	8.23	82.3	40-140
BENZENE	10.00	ND	8.52	85.2	80-120
BROMODICHLOROMETHANE	10.00	ND	8.25	82.5	75-120
BROMOFORM	10.00	ND	7.38	73.8	70-130
BROMOMETHANE	10.00	ND	4.90	49.0	30-145
CARBON TETRACHLORIDE	10.00	ND	9.48	94.8	65-140
CHLOROBENZENE	10.00	ND	8.45	84.5	80-120

Comments: _____

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	02/01/12
Analysis Date :	02/01/12
Instrument :	Thor
Run :	0201T24
Initials :	SV

Printed: 02/10/12 9:19:52 AM
APPL MS SCII

Matrix Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120201W-53807 MS - 163743**
Batch ID: #86RHB-120127AC
Sample ID: AY53807
Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	Matrix Result ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLORODIBROMOMETHANE	10.00	ND	7.74	77.4	60-135
CHLOROETHANE	10.00	ND	10.5	105	60-135
CHLOROFORM	10.00	ND	8.57	85.7	65-135
CHLOROMETHANE	10.00	ND	8.42	84.2	40-125
CIS-1,2-DICHLOROETHENE	10.00	ND	8.62	86.2	70-125
ETHYLBENZENE	10.00	ND	8.49	84.9	75-125
GASOLINE	300	ND	280	93.3	75-125
HEXACHLOROBUTADIENE	10.00	ND	7.94	79.4	50-140
METHYL TERT-BUTYL ETHER	10.00	ND	8.39	83.9	65-125
METHYLENE CHLORIDE	10.00	ND	9.66	96.6	55-140
STYRENE	10.00	ND	8.60	86.0	65-135
TETRACHLOROETHENE	10.00	ND	8.71	87.1	45-150
TOLUENE	10.00	ND	8.40	84.0	75-120
TRANS-1,2-DICHLOROETHENE	10.00	ND	8.84	88.4	60-140
TRICHLOROETHENE	10.00	ND	8.55	85.5	70-125
VINYL CHLORIDE	10.00	ND	9.44	94.4	50-145
XYLENES (TOTAL)	30.0	ND	25.9	86.3	80-120
SURROGATE: 1,2-DICHLOROETHANE-D4 (	30.9	NA	29.6	95.8	70-120
SURROGATE: 4-BROMOFLUOROBENZENE	33.2	NA	34.4	104	75-120
SURROGATE: DIBROMOFLUOROMETHAN	32.7	NA	33.1	101	85-115
SURROGATE: TOLUENE-D8 (S)	33.9	NA	33.1	97.5	85-120

Comments: _____

Primary	SPK
Quant Method :	TALLW.M
Extraction Date :	02/01/12
Analysis Date :	02/01/12
Instrument :	Thor
Run :	0201T24
Initials :	SV

Printed: 02/10/12 9:19:52 AM
APPL MS SCII

Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: **120201W-53807 MS - 163743**
Batch ID: #86RHB-120127AC
Sample ID: AY53807
Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE	300	ND	280	277	93.3	92.3	75-125	1.1	30

Comments:

Primary	SPK	DUP
Quant Method :	TALLW.M	CALLW.M
Extraction Date :	02/01/12	02/01/12
Analysis Date :	02/01/12	02/01/12
Instrument :	Thor	Chico
Run :	0201T24	0201C06
Initials :	SV	

Printed: 02/10/12 9:17:34 AM
APPL MSD SCII

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0201T24W.D Vial: 24
Acq On : 1 Feb 12 20:03 Operator:
Sample : AY53807W02 MS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 2 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.75	96	709504	25.00000 ppb	0.00
55) Chlorobenzene-D5 (IS)	9.89	117	582016	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	12.22	152	325312	25.00000 ppb	0.00
System Monitoring Compounds					
31) Dibromofluoromethane(S)	5.96	111	337642	33.13390 ppb	0.00
Spiked Amount 32.661			Recovery	= 101.448%	
36) 1,2-DCA-D4(S)	6.35	65	327915	29.61652 ppb	0.00
Spiked Amount 30.896			Recovery	= 95.862%	
56) Toluene-D8(S)	8.45	98	1214520	33.09834 ppb	0.00
Spiked Amount 33.937			Recovery	= 97.528%	
64) 4-Bromofluorobenzene(S)	11.06	95	475390	34.38063 ppb	0.00
Spiked Amount 33.154			Recovery	= 103.702%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.30	85	86710	11.01062 ppb	100
3) Freon 114	1.42	85	43243	9.65475 ppb	97
4) Chloromethane	1.46	50	88629	8.42323 ppb	100
5) Vinyl chloride	1.56	62	100154	9.43682 ppb	98
6) Bromomethane	1.87	94	34808	4.89897 ppb	99
7) Chloroethane	1.98	64	70314	10.54986 ppb	98
8) Dichlorofluoromethane	2.19	67	145706	8.55542 ppb	99
9) Trichlorofluoromethane	2.25	101	135820	10.16254 ppb	100
10) Acrolein	2.72	55	7395	47.51419 ppb M	83
11) Acetone	2.92	43	16165	8.22984 ppb	89
12) Freon-113	2.86	101	61914	9.46027 ppb	97
13) 1,1-DCE	2.83	61	51824	8.63390 ppb	99
14) t-Butanol	3.74	59	11337	57.10390 ppb M	97
15) Methyl Acetate	3.37	43	46420	8.17178 ppb	89
16) Iodomethane	2.99	142	89008	8.71020 ppb	98
17) Acrylonitrile	3.84	52	15670	8.28382 ppb	97
18) Methylene chloride	3.47	84	61349	9.66098 ppb	95
19) Carbon disulfide	3.07	76	107332	9.90745 ppb	99
20) Methyl t-butyl ether (MtBE	3.94	73	180534	8.39064 ppb	96
21) Trans-1,2-DCE	3.89	96	41742	8.84006 ppb	97
22) Diisopropyl Ether	4.73	59	27995	8.61303 ppb	93
23) 1,1-DCA	4.53	63	109862	8.60275 ppb	98
24) Vinyl Acetate	4.73	87	67721	8.64649 ppb	96
25) Ethyl tert Butyl Ether	5.24	59	201894	8.51838 ppb	99
26) MEK (2-Butanone)	5.41	43	21797	8.66317 ppb	99
27) Cis-1,2-DCE	5.35	96	71764	8.62143 ppb	99
28) 2,2-Dichloropropane	5.34	77	85793	8.14538 ppb	98
29) Chloroform	5.78	83	130751	8.57295 ppb	95
30) Bromochloromethane	5.64	128	31767	8.09046 ppb	96
32) 1,1,1-TCA	5.98	97	97786	8.73876 ppb	97
33) Cyclohexane	6.05	41	47134	8.24120 ppb	84
34) 1,1-Dichloropropene	6.19	75	64917	8.99931 ppb	98
35) 2,2,4-Trimethylpentane	6.56	57	180170	8.65528 ppb	99
37) Carbon Tetrachloride	6.18	117	79289	9.48490 ppb	96
38) Tert Amyl Methyl Ether	6.61	73	186353	8.31888 ppb	97
39) 1,2-DCA	6.43	62	84890	8.27706 ppb	96
40) Benzene	6.42	78	235204	8.52195 ppb	98
41) TCE	7.16	95	66970	8.55055 ppb	94
42) 2-Pentanone	7.39	43	260208	52.83927 ppb	97

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

Quantitation Report (Not Reviewed)

Data File : M:\THOR\DATA\T120131\0201T24W.D Vial: 24
Acq On : 1 Feb 12 20:03 Operator:
Sample : AY53807W02 MS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 2 9:00 2012 Quant Results File: TALLW.RES

Quant Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration
DataAcq Meth : 8260_BETA

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	1,2-Dichloropropane	7.39	63	77534	8.39130	ppb	100
44)	Bromodichloromethane	7.69	83	97468	8.25206	ppb	99
45)	Methyl Cyclohexane	7.37	83	100254	9.45272	ppb	95
46)	Dibromomethane	7.51	93	40111	8.06358	ppb	98
48)	MIBK (methyl isobutyl ket	9.20	43	20246	8.00807	ppb	97
49)	1-Bromo-2-chloroethane	8.00	63	57264	8.32295	ppb	100
50)	Cis-1,3-Dichloropropene	8.17	75	98251	7.99382	ppb	99
51)	Toluene	8.51	91	294476	8.39860	ppb	100
52)	Trans-1,3-Dichloropropene	8.74	75	83237	7.84799	ppb	99
53)	1,1,2-TCA	8.92	83	55123	8.11694	ppb	99
54)	2-Hexanone	9.20	43	33233	8.54660	ppb	97
57)	1,2-EDB	9.41	107	61143	8.00928	ppb	99
58)	Tetrachloroethene	9.07	166	78718	8.70663	ppb	99
59)	1-Chlorohexane	9.92	91	103547	8.61389	ppb	97
60)	1,1,1,2-Tetrachloroethane	10.01	131	79149	8.25200	ppb	98
61)	m&p-Xylene	10.16	106	288783	17.18289	ppb	97
62)	o-Xylene	10.55	106	146046	8.66817	ppb	99
63)	Styrene	10.56	104	245907	8.59540	ppb	96
65)	1,3-Dichloropropane	9.08	76	107271	8.18125	ppb	95
66)	Dibromochloromethane	9.31	129	69859	7.74317	ppb	97
67)	Chlorobenzene	9.92	112	229513	8.44551	ppb	99
68)	Ethylbenzene	10.04	91	375673	8.48774	ppb	99
69)	Bromoform	10.73	173	41736	7.37882	ppb	95
71)	Isopropylbenzene	10.93	105	363866	8.19445	ppb	100
72)	1,1,2,2-Tetrachloroethane	11.21	83	80223	8.39412	ppb	94
73)	1,2,3-Trichloropropane	11.24	110	23029	7.72515	ppb	96
74)	t-1,4-Dichloro-2-Butene	11.26	53	8732	4.02786	ppb	98
75)	Bromobenzene	11.21	156	108284	8.05518	ppb	96
76)	n-Propylbenzene	11.33	91	453302	8.30014	ppb	99
77)	4-Ethyltoluene	11.45	105	266439	8.44646	ppb	99
78)	2-Chlorotoluene	11.41	91	299915	8.18458	ppb	99
79)	1,3,5-Trimethylbenzene	11.51	105	326006	8.30872	ppb	99
80)	4-Chlorotoluene	11.52	91	318150	8.52996	ppb	100
81)	Tert-Butylbenzene	11.84	119	295168	7.99361	ppb	99
82)	1,2,4-Trimethylbenzene	11.88	105	334054	8.51799	ppb	98
83)	Sec-Butylbenzene	12.05	105	419246	8.42418	ppb	99
84)	p-Isopropyltoluene	12.20	119	356236	8.44323	ppb	99
85)	Benzyl Chloride	12.37	91	95662	8.28435	ppb	99
86)	1,3-DCB	12.15	146	207373	8.48394	ppb	99
87)	1,4-DCB	12.24	146	209052	8.48299	ppb	100
88)	n-Butylbenzene	12.61	91	319623	8.90030	ppb	98
89)	1,2-DCB	12.61	146	190880	8.29157	ppb	99
90)	Hexachloroethane	12.87	117	58959	8.73881	ppb	97
91)	1,2-Dibromo-3-chloropropan	13.37	157	8887	7.15448	ppb	98
92)	1,2,4-Trichlorobenzene	14.21	180	86504	9.37733	ppb	99
93)	Hexachlorobutadiene	14.40	225	68555	7.94050	ppb	96
94)	Naphthalene	14.45	128	227796	9.72858	ppb	99
95)	1,2,3-Trichlorobenzene	14.69	180	120474	9.70935	ppb	98

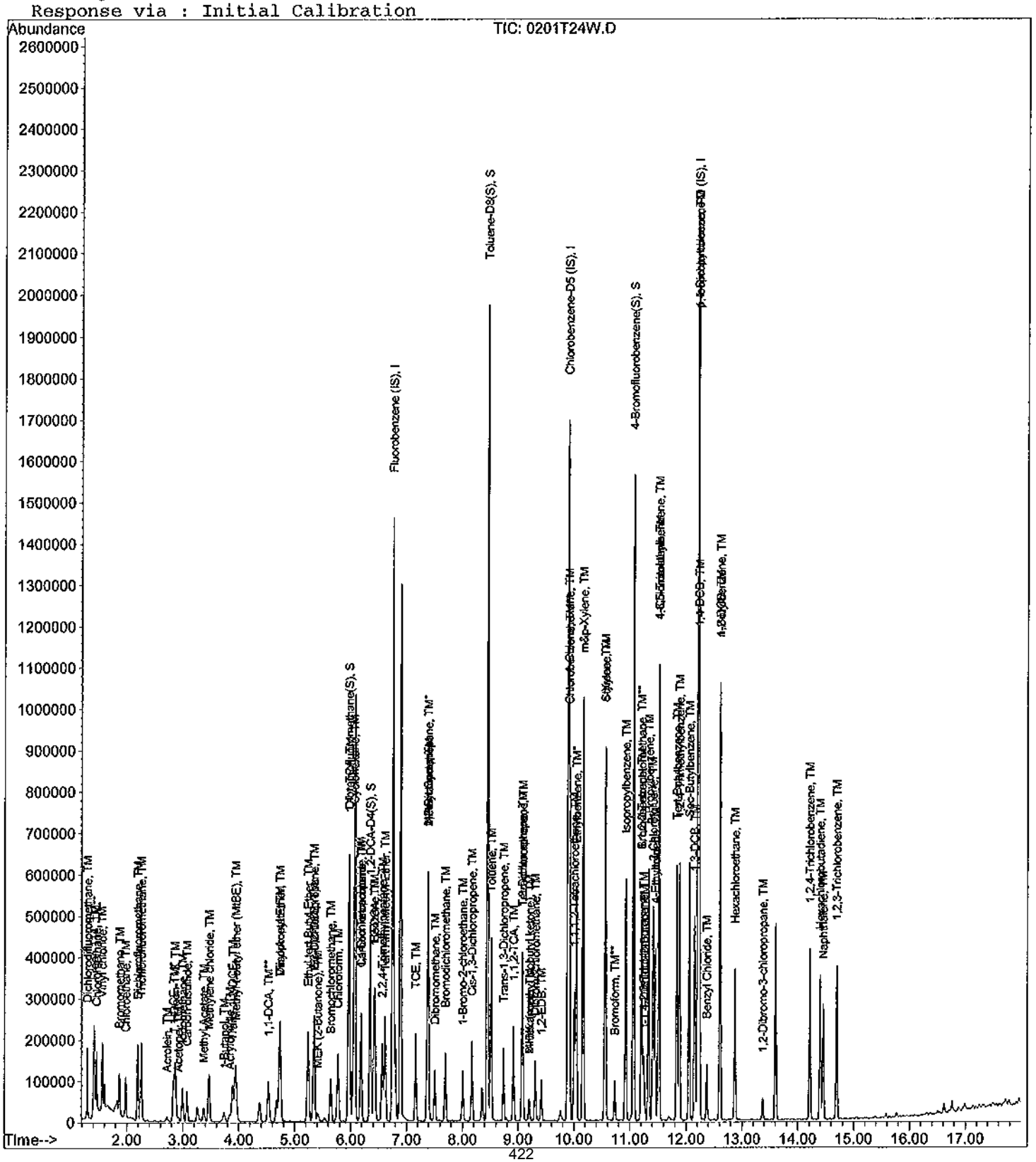
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\THOR\DATA\T120131\0201T24W.D Vial: 24
Acq On : 1 Feb 12 20:03 Operator:
Sample : AY53807W02 MS-1WT Inst : Thor
Misc : 10ml w/5ul of IS: 12-25-11 | GF=5 | 150: Multiplr: 1.00

Quant Time: Feb 2 9:00 2012 Quant Results File: TALLW.RES

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Wed Feb 01 08:59:11 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120131\0201C05W.D Vial: 1
Acq On : 1 Feb 12 15:02 Operator: RS, ARS
Sample : AY53807W05 MS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00

Quant Time: Feb 9 13:37 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.80	TIC	1164132	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1167426	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.19	TIC	1135316	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.46	TIC	47741518m	279.77743	ppb	100

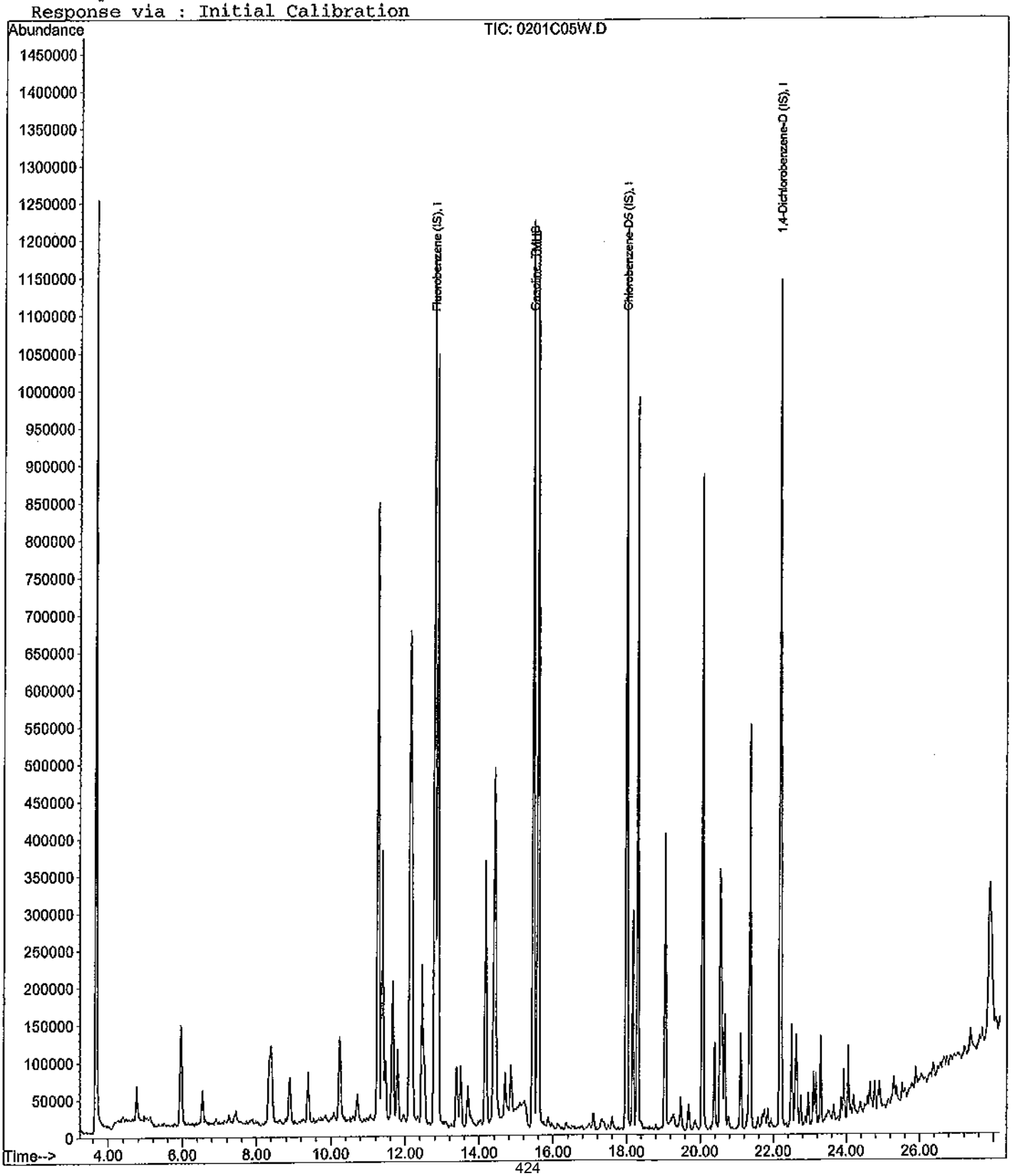
(#) = qualifier out of range (m) = manual integration
0201C05W.D CGAS.M Thu Feb 09 13:38:03 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120131\0201C05W.D Vial: 1
Acq On : 1 Feb 12 15:02 Operator: RS, ARS
Sample : AY53807W05 MS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00

Quant Time: Feb 9 13:37 2012 Quant Results File: CGAS.RES

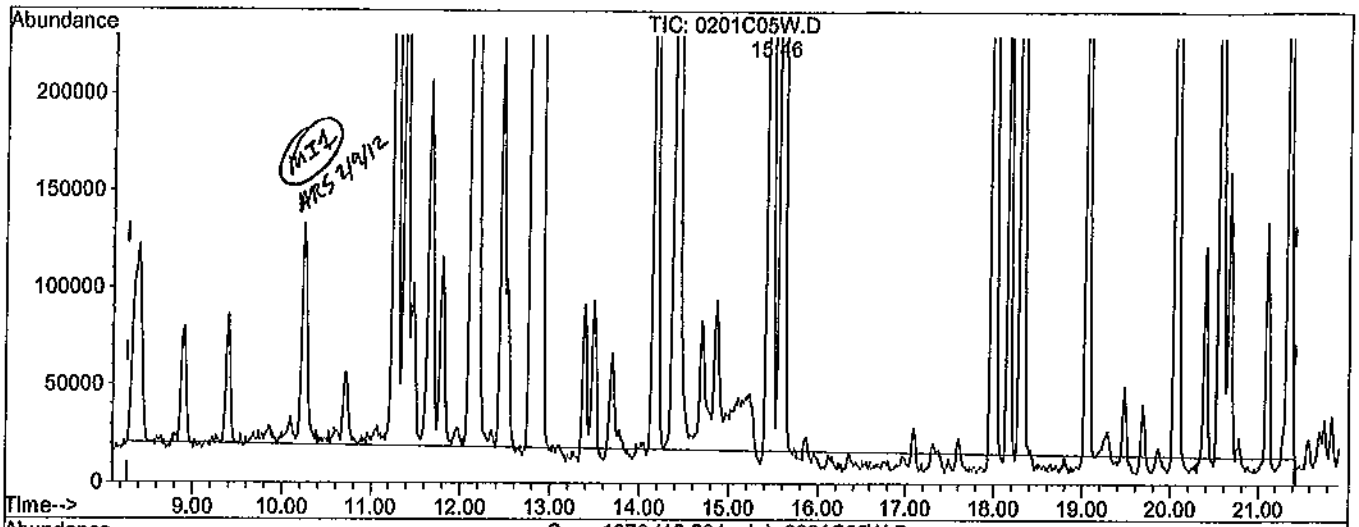
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

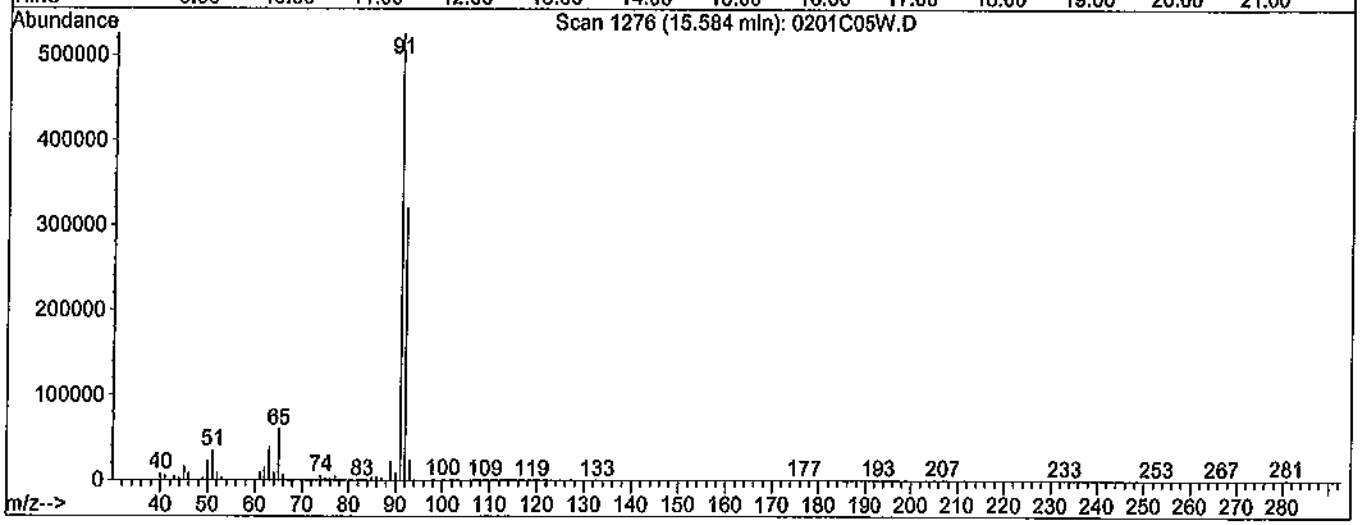


Quantitation Report

Data File : M:\CHICO\DATA\C120131\0201C05W.D Vial: 1
Acq On : 1 Feb 12 15:02 Operator: RS, ARS
Sample : AY53807W05 MS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00
Quant Time: Feb 9 13:32 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0201C05W.D

(2) Gasoline (TMHB)

15.58min 258.4298ppb m

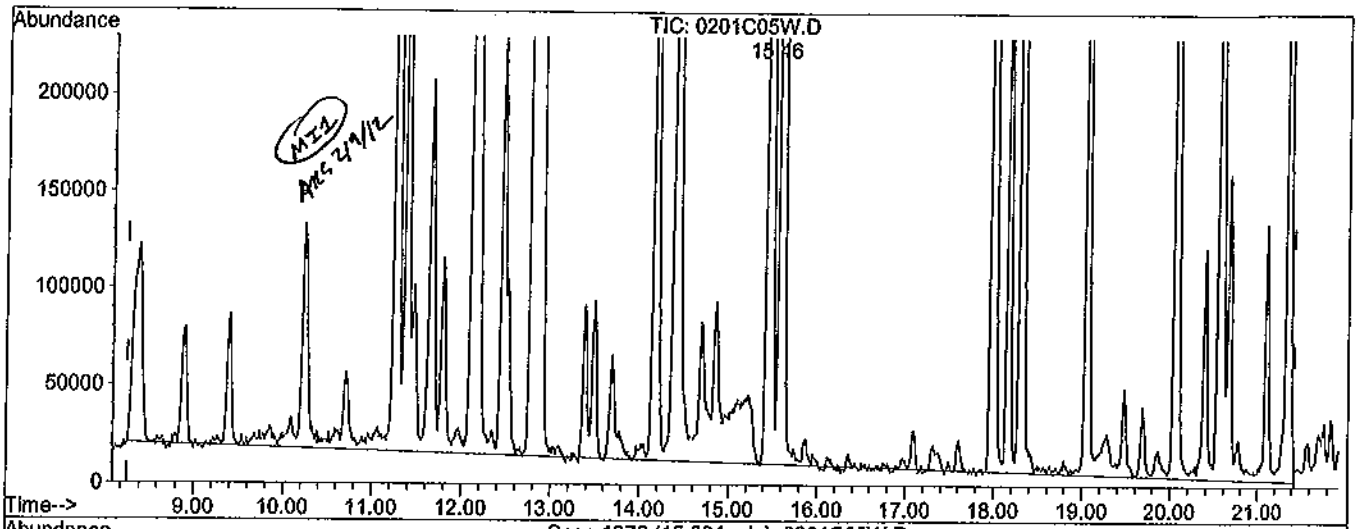
response 45581774

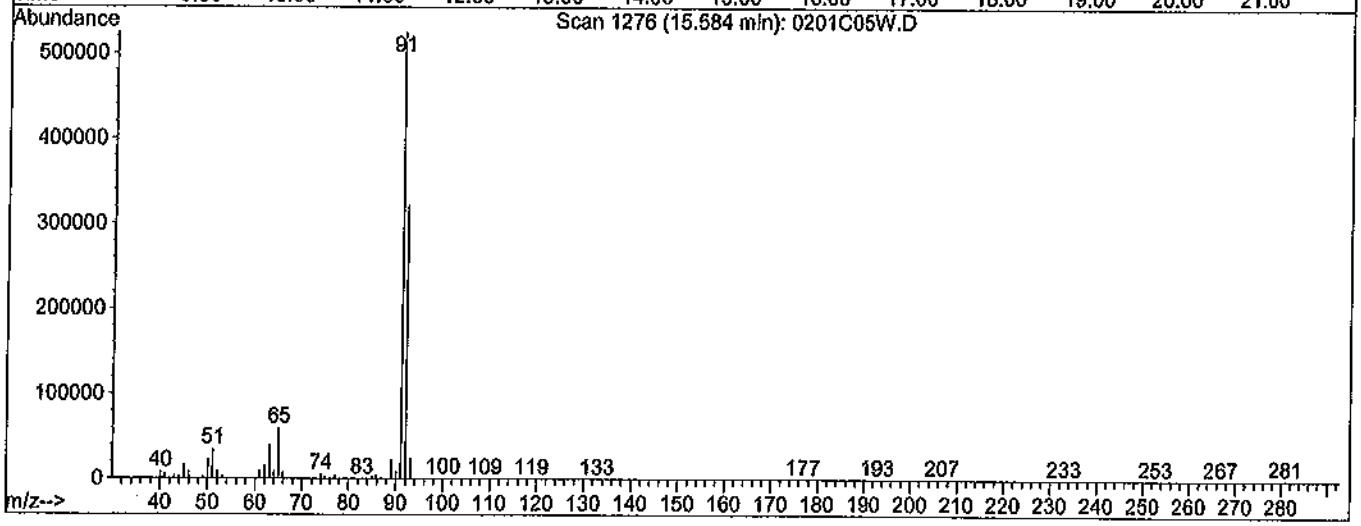
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.24#
0.00	0.00	0.71#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120131\0201C05W.D Vial: 1
Acq On : 1 Feb 12 15:02 Operator: RS, ARS
Sample : AY53807W05 MS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00
Quant Time: Feb 9 13:37 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0201C05W.D

(2) Gasoline (TMHB)

15.46min 279.7774ppb m

response 47741518

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.23#
0.00	0.00	0.68#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120131\0201C06W.D Vial: 1
Acq On : 1 Feb 12 15:39 Operator: RS, ARS
Sample : AY53807W06 MSD-1WS Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00

Quant Time: Feb 9 13:38 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.80	TIC	1150036	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1201318	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.19	TIC	1182675	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	46866217m	276.80361	ppb	100

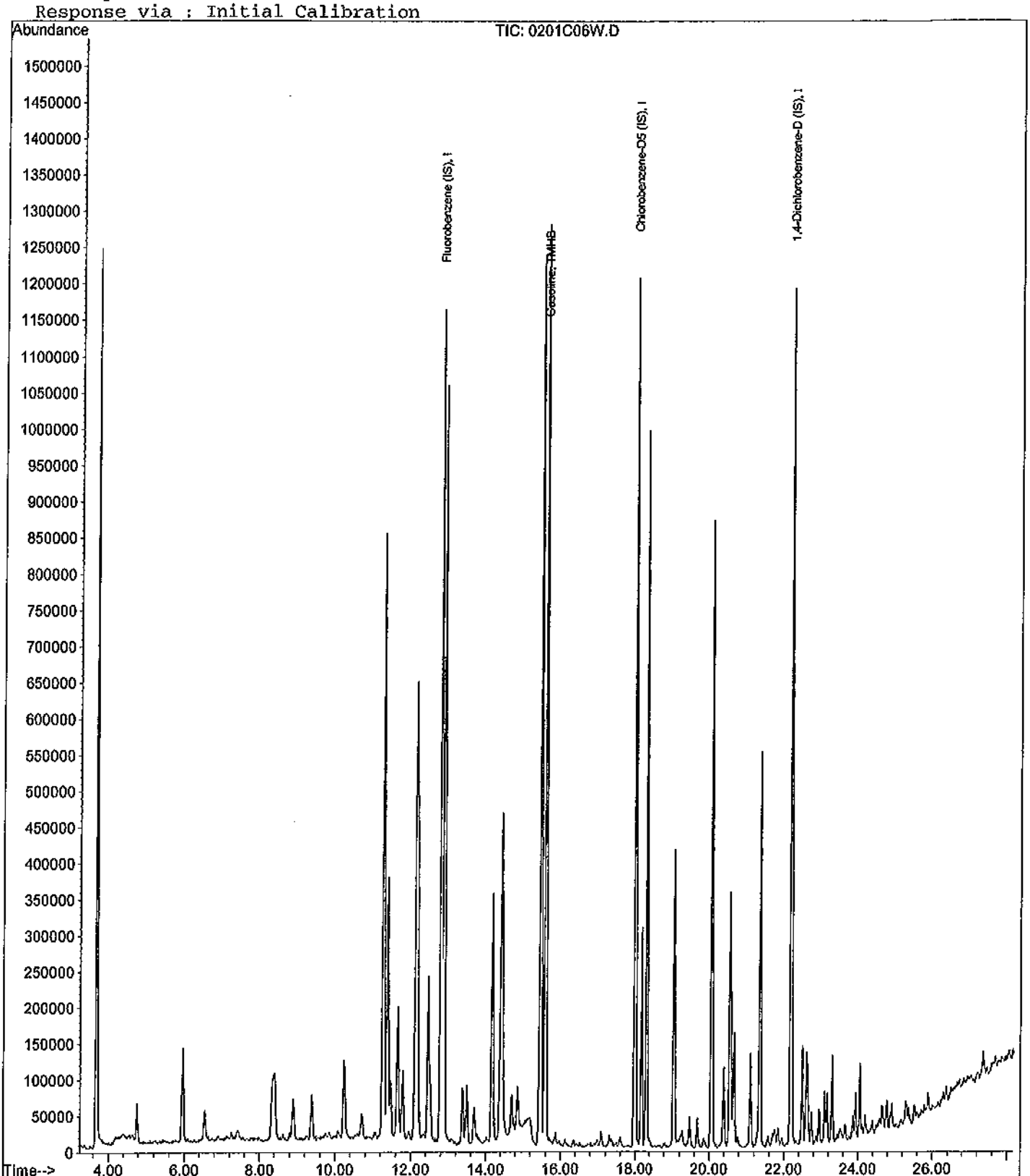
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120131\0201C06W.D Vial: 1
Acq On : 1 Feb 12 15:39 Operator: RS, ARS
Sample : AY53807W06 MSD-1WS Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00

Quant Time: Feb 9 13:38 2012 Quant Results File: CGAS.RES

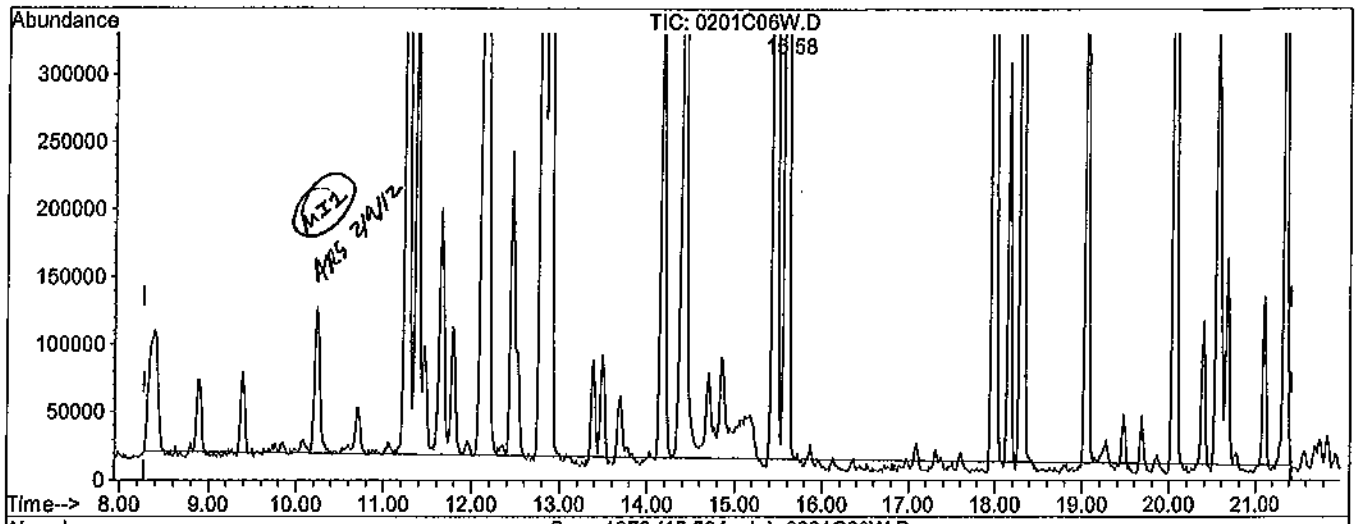
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

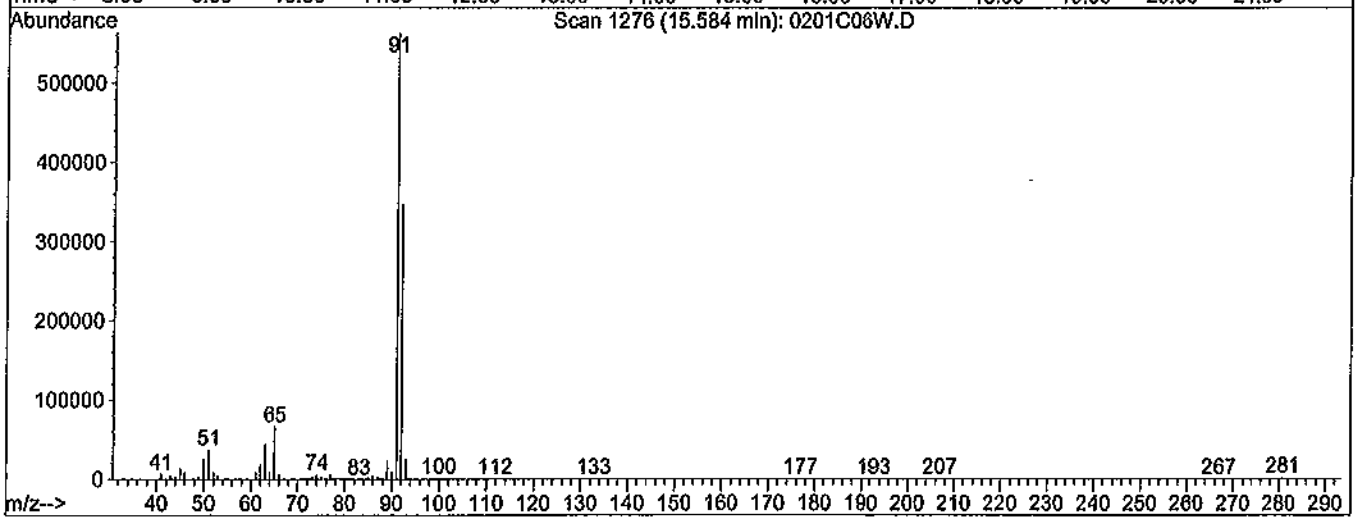


Quantitation Report

Data File : M:\CHICO\DATA\C120131\0201C06W.D Vial: 1
Acq On : 1 Feb 12 15:39 Operator: RS, ARS
Sample : AY53807W06 MSD-1WS Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00
Quant Time: Feb 9 13:32 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0201C06W.D

(2) Gasoline (TMHB)

15.58min 252.0514ppb m

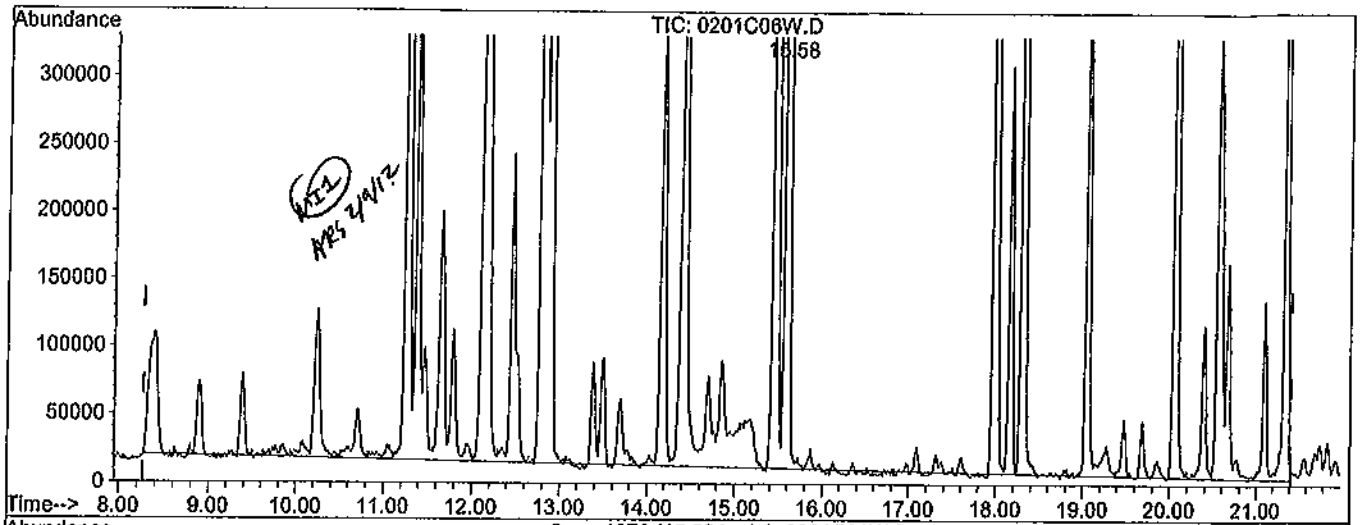
response 44392355

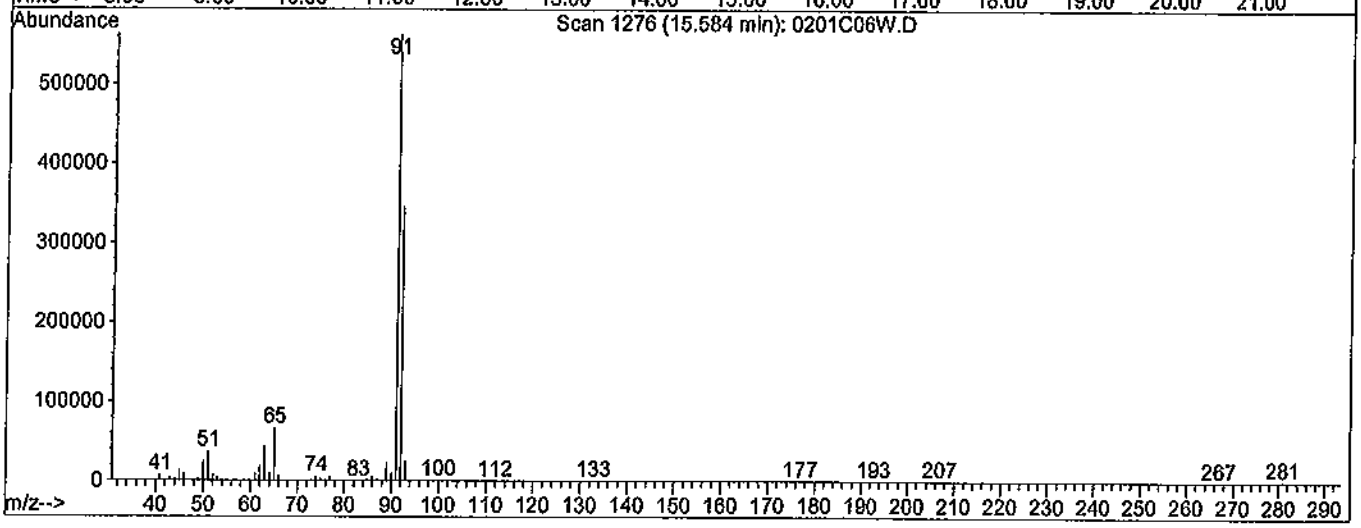
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.25#
0.00	0.00	0.75#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120131\0201C06W.D Vial: 1
Acq On : 1 Feb 12 15:39 Operator: RS, ARS
Sample : AY53807W06 MSD-1WS Inst : Chico
Misc : Water 10mLw/ IS&S:01-31C/01-20 Multiplr: 1.00
Quant Time: Feb 9 13:38 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0201C06W.D

(2) Gasoline (TMHB)

15.58min 276.8036ppb m

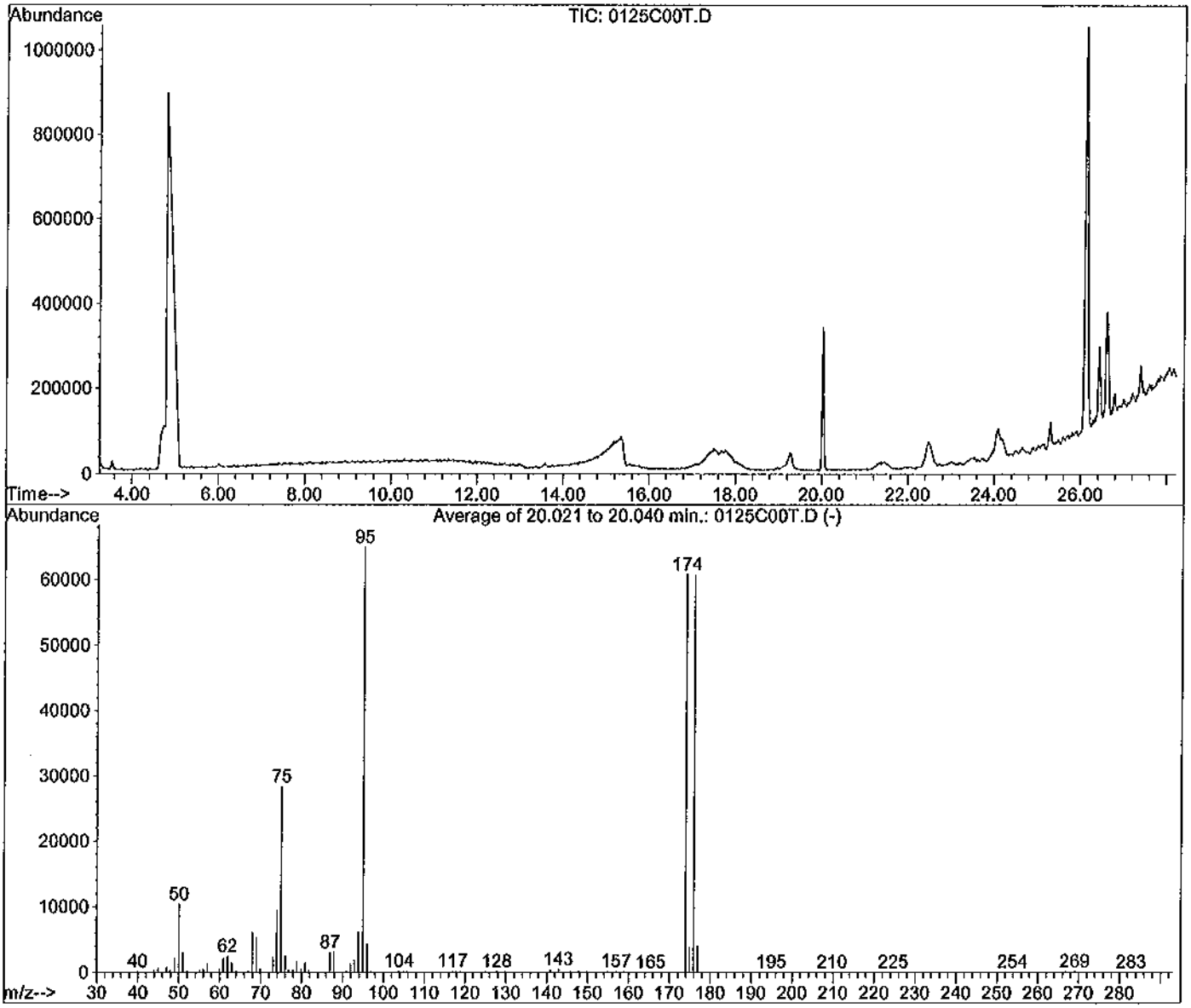
response 46866217

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.24#
0.00	0.00	0.71#
0.00	0.00	0.00

0201C06W.D CGAS.M Thu Feb 09 13:38:43 2012

Data File : M:\CHICO\DATA\C120125\0125C00T.D Vial: 1
Acq On : 25 Jan 12 12:41 Operator: RS, ARS
Sample : 25ug/mL BFB Std. 01-12-12 Inst : Chico
Misc : 2uL Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260

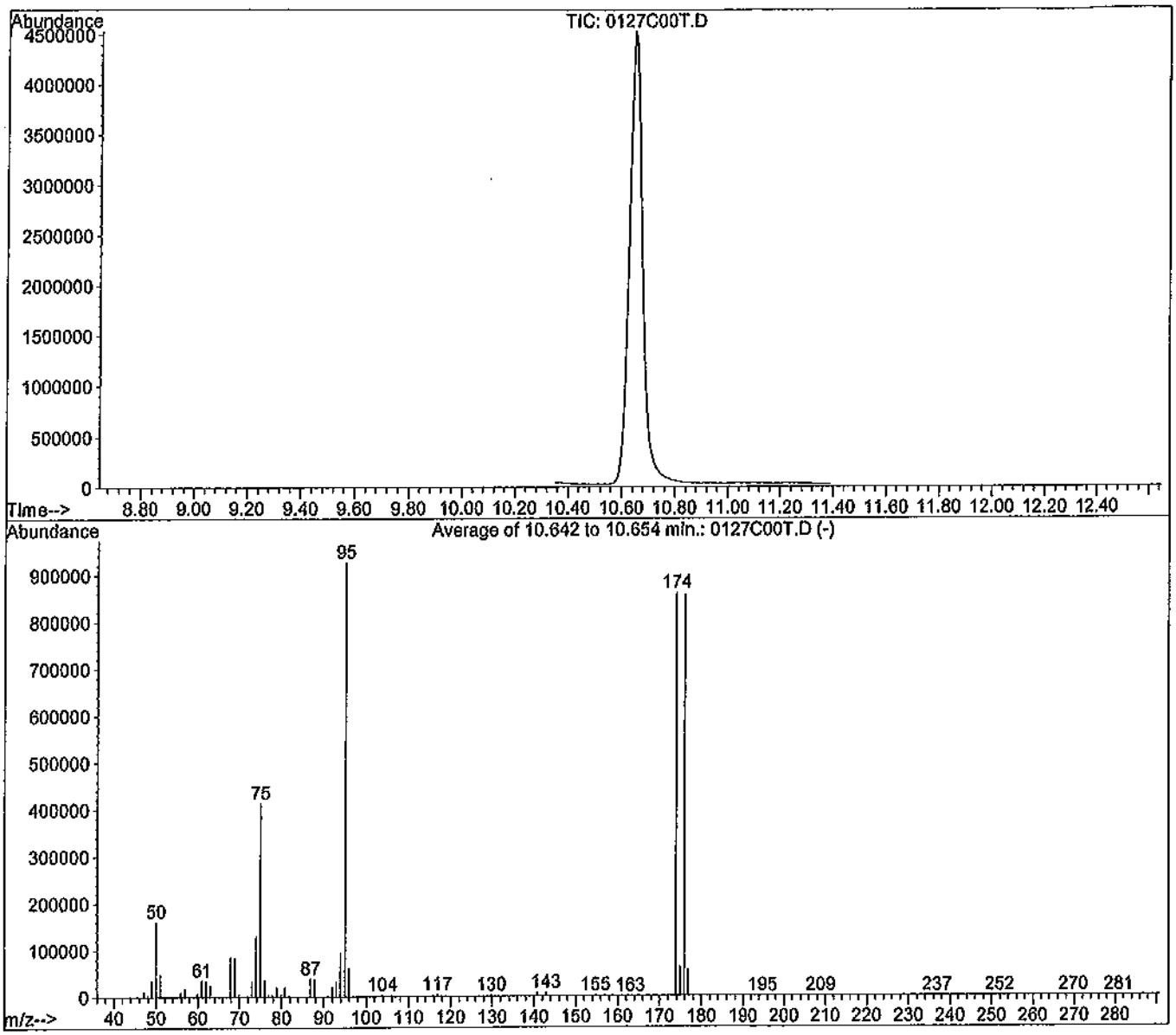


Spectrum Information: Average of 20.021 to 20.040 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	10386	PASS
75	95	30	60	43.7	28400	PASS
95	95	100	100	100.0	64952	PASS
96	95	5	9	6.8	4425	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.6	60811	PASS
175	174	5	9	6.3	3812	PASS
176	174	95	101	100.0	60792	PASS
177	176	5	9	6.7	4066	PASS

Data File : M:\CHICO\DATA\C120125\0127C00T.D Vial: 1
Acq On : 27 Jan 12 9:32 Operator: RS, ARS
Sample : 25ug/mL BFB Std. 01-12-12 Inst : Chico
Misc : 2uL Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260

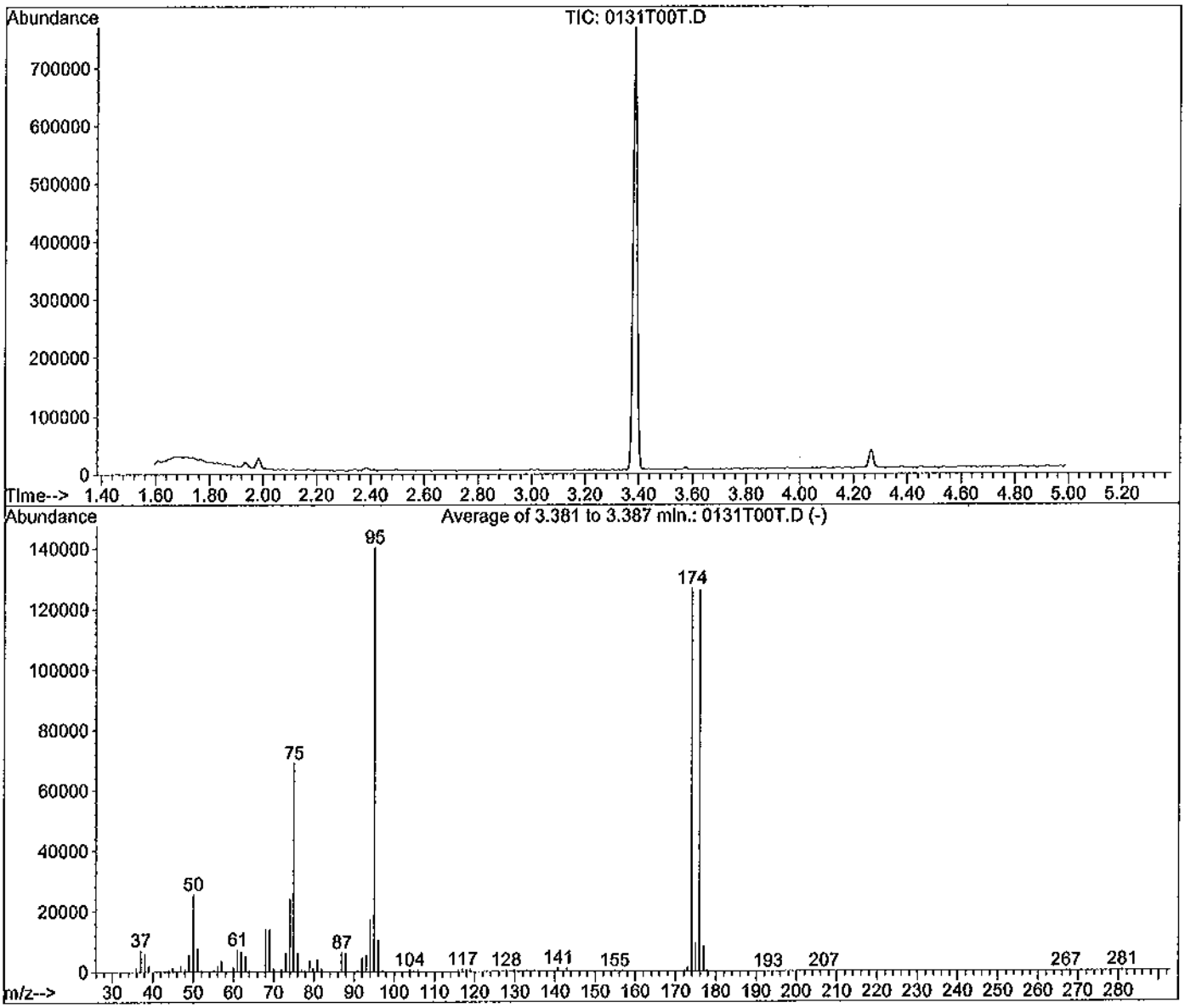


Spectrum Information: Average of 10.642 to 10.654 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	161262	PASS
75	95	30	60	44.7	414003	PASS
95	95	100	100	100.0	927189	PASS
96	95	5	9	6.7	61922	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.9	861461	PASS
175	174	5	9	7.3	62735	PASS
176	174	95	101	99.4	856043	PASS
177	176	5	9	6.5	55251	PASS

Data File : M:\THOR\DATA\T120131\0131T00T.D Vial: 1
Acq On : 31 Jan 12 10:01 Operator:
Sample : 5ng- BFB STD 1-12-12 Inst : Thor
Misc : 2ul Multiplr: 1.00

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B

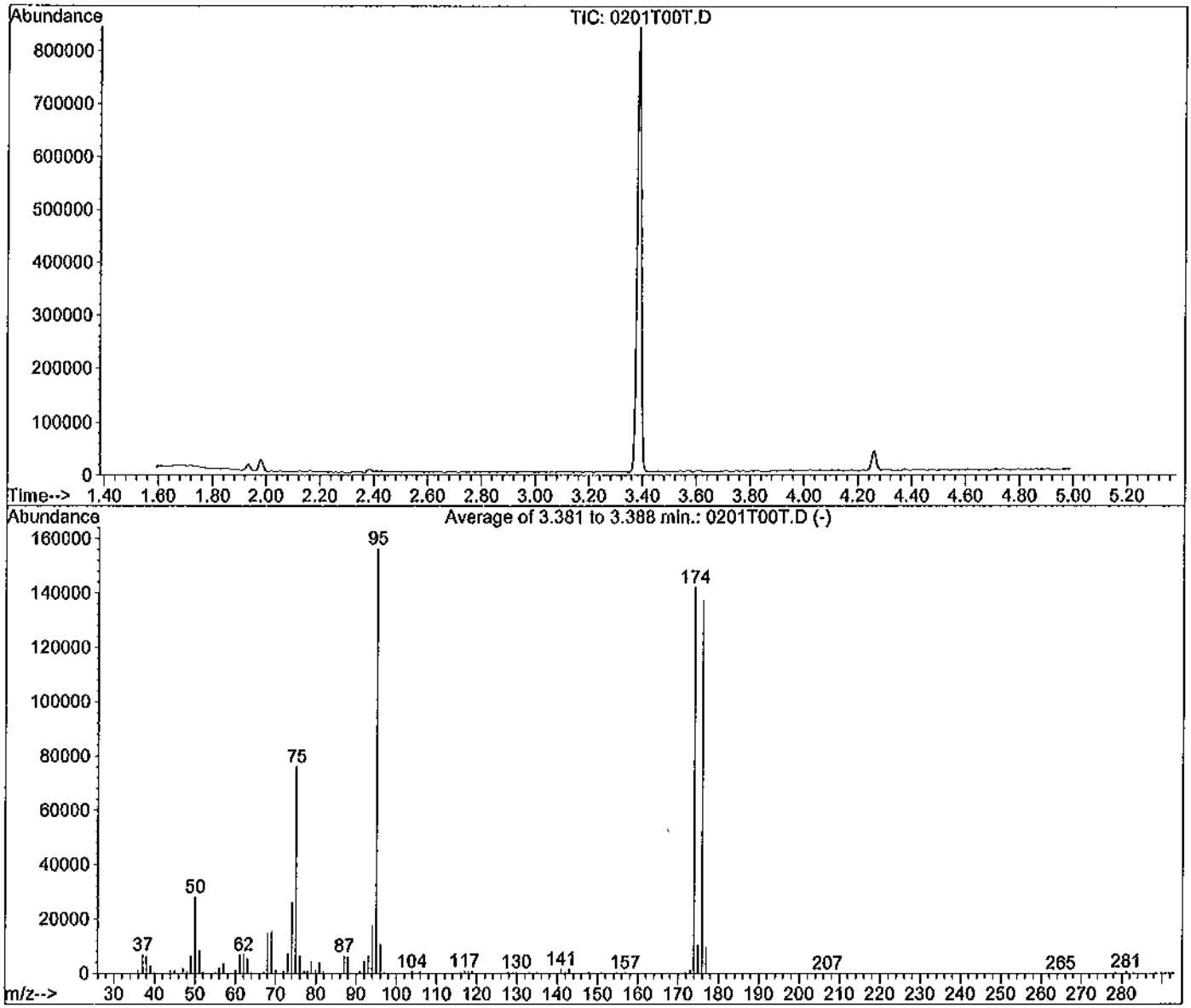


Spectrum Information: Average of 3.381 to 3.387 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	25667	PASS
75	95	30	60	49.2	69075	PASS
95	95	100	100	100.0	140403	PASS
96	95	5	9	7.4	10383	PASS
173	174	0.00	2	1.0	1262	PASS
174	95	50	100	90.4	126869	PASS
175	174	5	9	7.4	9421	PASS
176	174	95	101	99.5	126219	PASS
177	176	5	9	6.5	8238	PASS

Data File : M:\THOR\DATA\T120131\0201T00T.D Vial: 1
Acq On : 1 Feb 12 8:48 Operator:
Sample : 5ng- BFB STD 1-12-12 Inst : Thor
Misc : 2ul Multiplr: 1.00

Method : M:\THOR\DATA\T120131\TALLW.M (RTE Integrator)
Title : METHOD 8260B



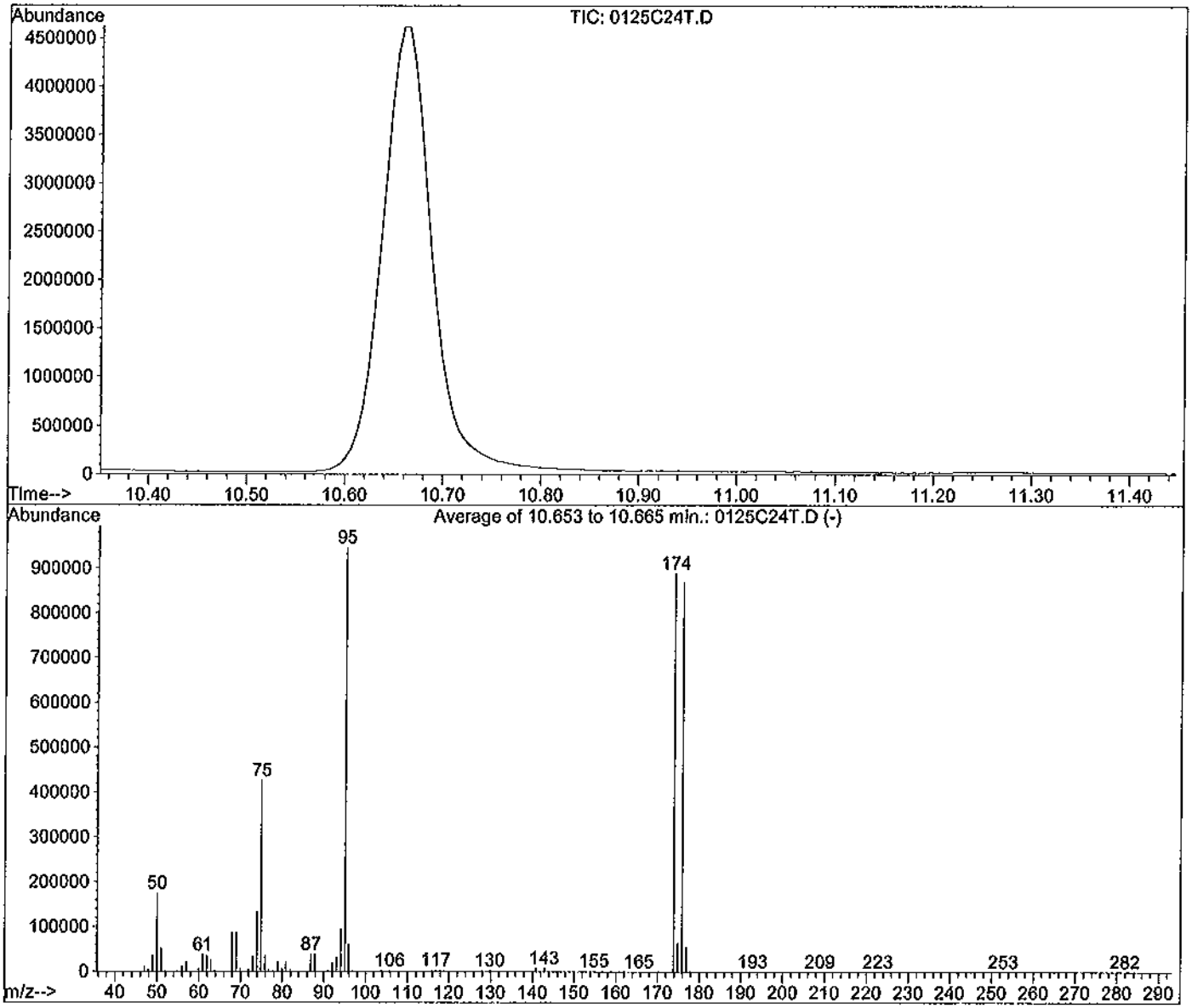
Spectrum Information: Average of 3.381 to 3.388 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	28280	PASS
75	95	30	60	48.8	76232	PASS
95	95	100	100	100.0	156352	PASS
96	95	5	9	6.9	10770	PASS
173	174	0.00	2	0.9	1284	PASS
174	95	50	100	90.8	142021	PASS
175	174	5	9	7.4	10580	PASS
176	174	95	101	96.6	137128	PASS
177	176	5	9	7.1	9704	PASS

Data File : M:\CHICO\DATA\C120125\0125C24T.D
Acq On : 26 Jan 12 16:30
Sample : 25ug/mL BFB Std. 01-12-12
Misc : 2uL

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B



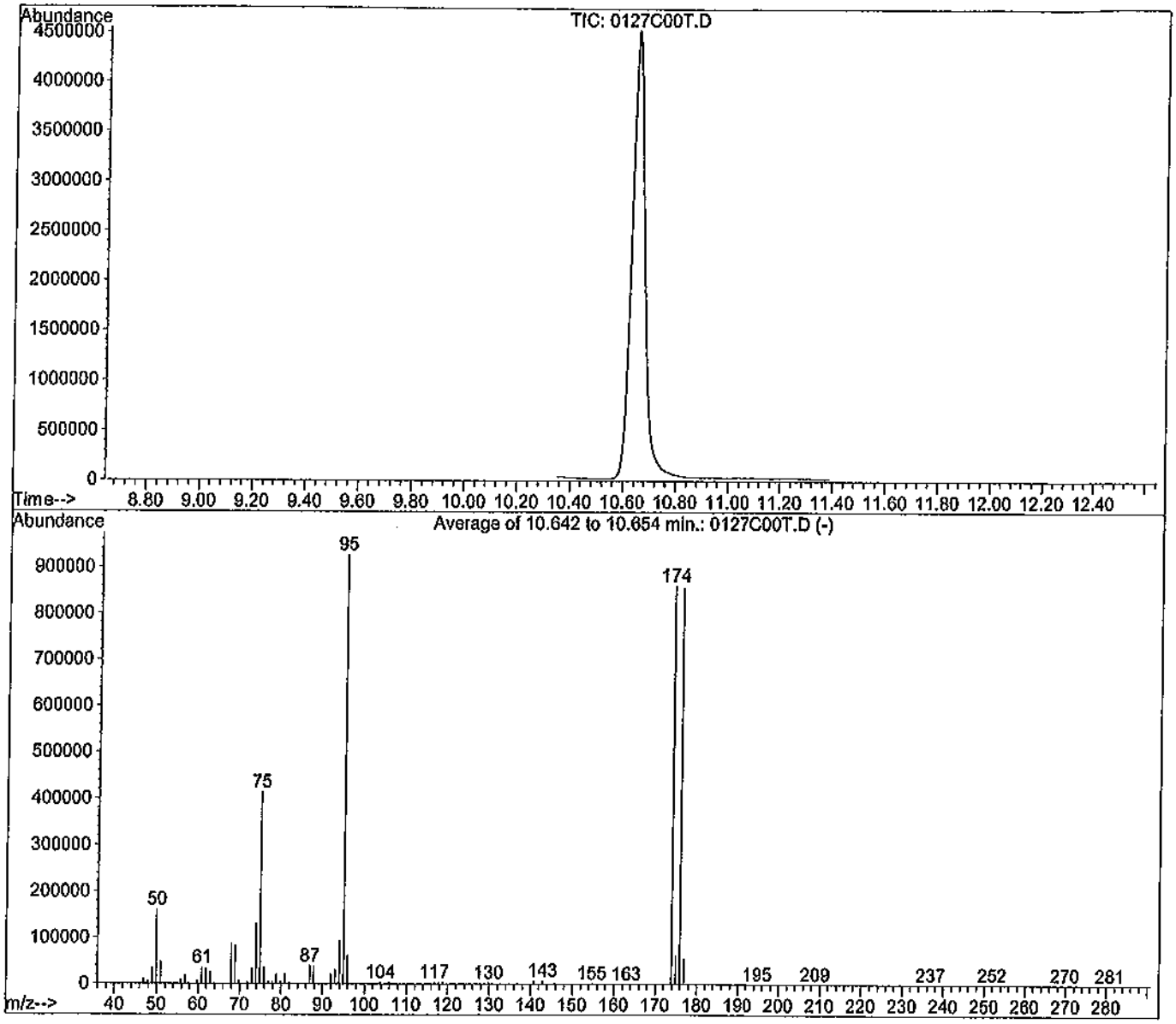
Spectrum Information: Average of 10.653 to 10.665 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	175569	PASS
75	95	30	60	45.1	426726	PASS
95	95	100	100	100.0	947029	PASS
96	95	5	9	6.5	61164	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.9	889685	PASS
175	174	5	9	7.3	64552	PASS
176	174	95	101	97.7	869568	PASS
177	176	5	9	6.5	56475	PASS

Data File : M:\CHICO\DATA\C120125\0127C00T.D
Acq On : 27 Jan 12 9:32
Sample : 25ug/mL BFB Std. 01-12-12
Misc : 2uL

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B

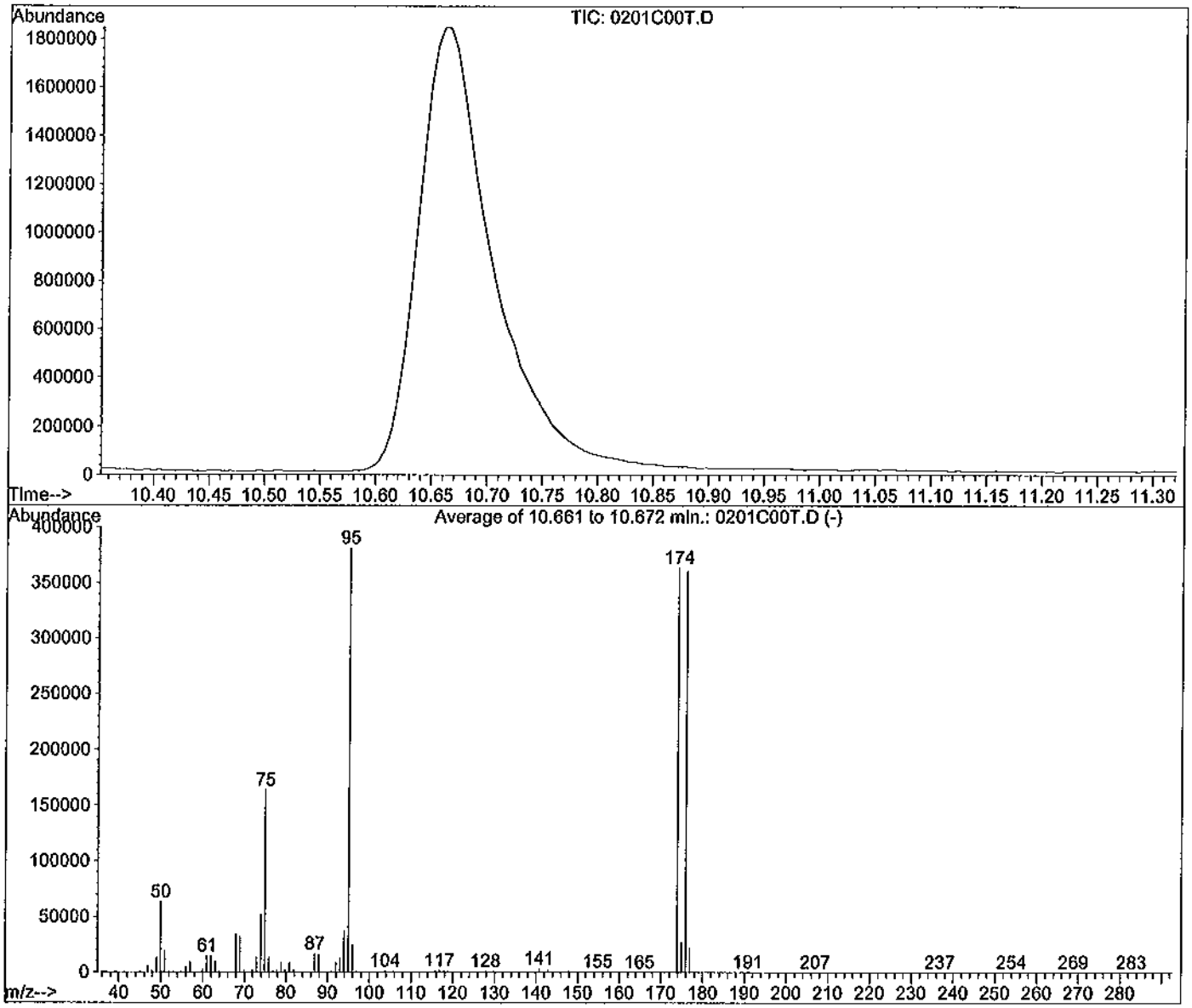


Spectrum Information: Average of 10.642 to 10.654 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	161262	PASS
75	95	30	60	44.7	414003	PASS
95	95	100	100	100.0	927189	PASS
96	95	5	9	6.7	61922	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.9	861461	PASS
175	174	5	9	7.3	62735	PASS
176	174	95	101	99.4	856043	PASS
177	176	5	9	6.5	55251	PASS

Data File : M:\CHICO\DATA\C120131\0201C00T.D Vial: 1
Acq On : 1 Feb 12 12:01 Operator: RS, ARS
Sample : 25ug/mL BFB Std. 01-12-12 Inst : Chico
Misc : 2uL Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Average of 10.661 to 10.672 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	63431	PASS
75	95	30	60	43.0	163879	PASS
95	95	100	100	100.0	381312	PASS
96	95	5	9	6.6	24988	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	95.4	363648	PASS
175	174	5	9	7.5	27432	PASS
176	174	95	101	99.3	361024	PASS
177	176	5	9	6.0	21725	PASS

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

12/14/11 RS. A –

Method 8260 Internal Standard Solution, 2,000 mg/L, 1 ml
120302-03
Lot # 166255 Storage 5-10 Degrees C Expiry 11/18/12
Solv: P/T Methanol
Supelco solutions
Method 8260 Internal Standard
Lot #: 166255 - 29277
Rec: 8/5/11 MFR exp. 11/18/12

RS.

12/14/11 RS.

12/14/11 RS. B –

Fluorobenzene Solution, 2,000 mg/L, 1 ml
020132-02
Lot # 169170 Storage 5-6 Degrees C Expiry 2/13/14
Solv: P/T Methanol
Fluorobenzene
Lot #: 169170 - 29287
Rec: 8/5/11 MFR exp. 02/13/14

RS.

12/15/11 RS

12/14/11 RS.

CHICO							
12-14-11C							
250ug/ml 8260 Internal Standard - Chico			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120302-03	Internal Standard Mix	2000	166255-29277	12-14-11A	03/23/12	500
02SI	020132-02	Fluorobenzene Standard	2000	169170-292987	12-14-11C	03/23/12	500
J&T Baker		Purge & Trap MeOH		K07E34-00547	09/12/11	11/14/12	3000

12/15/11 RS

12/14/11 RS.

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

	Expiration Date:		12/15/11									
		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	12-12-11Z	12-12-11AD	12-12-11V	12-12-11X	12-12-11AC	12-12-11AA	12-12-11W	12-12-11Y	12-12-11AB
Code	µg/L	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11
12-14-11D	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
12-14-11E	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
12-14-11F	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
12-14-11G	5	n/a	n/a	5	5	10	n/a	5	5	n/a
12-14-11H	10	n/a	n/a	10	10	25	n/a	10	20	n/a
12-14-11I	40	n/a	n/a	40	40	80	n/a	40	40	n/a
12-14-11J	100	n/a	n/a	100	100	100	n/a	100	100	n/a
12-14-11K	200	n/a	n/a	200	200	125	n/a	200	200	n/a

12/14/11 RS

12/15/11 RS

250µg/mL TAPD 12-12-11AE Exp:12-19-11	Final Vol w/P&T H2O mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

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

	Expiration Date:		12/15/11									
		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	12-12-11Z	12-12-11AD	12-12-11V	12-12-11X	12-12-11AC	12-12-11AA	12-12-11W	12-12-11Y	12-12-11AB
Code	µg/L	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11
12-14-11L	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
12-14-11M	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
12-14-11N	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
12-14-11O	5	n/a	n/a	5	5	10	n/a	5	5	n/a
12-14-11P	10	n/a	n/a	10	10	25	n/a	10	20	n/a
12-14-11Q	40	n/a	n/a	40	40	80	n/a	40	40	n/a
12-14-11R	100	n/a	n/a	100	100	100	n/a	100	100	n/a
12-14-11S	200	n/a	n/a	200	200	125	n/a	200	200	n/a

12/14/11 RS.

12/15/11 RS.

250µg/mL TAPD 12-12-11AE Exp:12-19-11	Final Vol w/P&T H2O mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

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

	Expiration Date:		12/28/13								
		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	60µg/mL Vol Std #1	5µg/mL Vol Std #2	60µg/mL Vol Std #12
Date	Conc.	12-27-11M	12-27-11Q	12-27-11I	12-27-11K	12-27-11P	12-27-11N	12-27-11J	12-27-11L	12-27-11O
Code	µg/L	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11
12-27-11AI	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
12-27-11AJ	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
12-27-11AK	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
12-27-11AL	5	n/a	n/a	5	5	10	n/a	5	5	n/a
12-27-11AM	10	n/a	n/a	10	10	25	n/a	10	20	n/a
12-27-11AN	40	n/a	n/a	40	40	80	n/a	40	40	n/a
12-27-11AO	100	n/a	n/a	100	100	100	n/a	100	100	n/a
12-27-11AP	200	n/a	n/a	200	200	125	n/a	200	200	n/a

12/27/11 RS

250µg/mL TAPO 12-27-11R Exp:01-03-11	Final Vol w/P&T H2O mL
3	50
6	50
10	50
20	50
25	50
35	50
40	50
45	50

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

	Expiration Date:		12/28/11								
		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	60µg/mL Vol Std #1	5µg/mL Vol Std #2	60µg/mL Vol Std #12
Date	Conc.	12-27-11M	12-27-11Q	12-27-11I	12-27-11K	12-27-11P	12-27-11N	12-27-11J	12-27-11L	12-27-11O
Code	µg/L	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11
12-27-11AQ	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
12-27-11AR	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
12-27-11AS	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
12-27-11AT	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
12-27-11AU	50	n/a	n/a	5	5	5	n/a	5	n/a	5
12-27-11AV	100	n/a	n/a	10	10	10	n/a	10	n/a	10
12-27-11AW	200	n/a	n/a	20	20	20	n/a	20	n/a	20

12/27/11 RS

250µg/mL TBA 12-27-11R Exp:01-03-11	Final Vol w/P&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

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

	Expiration Date:		12/28/11								
		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	60µg/mL Vol Std #1	5µg/mL Vol Std #2	60µg/mL Vol Std #12
Date	Conc.	12-27-11M	12-27-11Q	12-27-11I	12-27-11K	12-27-11P	12-27-11N	12-27-11J	12-27-11L	12-27-11O
Code	µg/L	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11
12-27-11AX	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
12-27-11AY	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
12-27-11AZ	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
12-27-11BA	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
12-27-11BB	50	n/a	n/a	5	5	5	n/a	5	n/a	5
12-27-11BC	100	n/a	n/a	10	10	10	n/a	10	n/a	10
12-27-11BD	200	n/a	n/a	20	20	20	n/a	20	n/a	20

12/27/11 RS

250µg/mL TBA 12-27-11R Exp:01-03-11	Final Vol w/P&T H2O 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:		12/29/11								
		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	60µg/mL Vol Std #1	5µg/mL Vol Std #2	60µg/mL Vol Std #12
Date	Conc.	12-27-11M	12-27-11Q	12-27-11I	12-27-11K	12-27-11P	12-27-11N	12-27-11J	12-27-11L	12-27-11O
Code	µg/L	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11
12-28-11A	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
12-28-11B	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
12-28-11C	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
12-28-11D	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
12-28-11E	50	n/a	n/a	5	5	5	n/a	5	n/a	5
12-28-11F	100	n/a	n/a	10	10	10	n/a	10	n/a	10
12-28-11G	200	n/a	n/a	20	20	20	n/a	20	n/a	20

12/28/11 RS

250µg/mL TBA 12-27-11R Exp:01-03-11	Final Vol w/P&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

8260B Surrogate Solution, 2,000 mg/L, 5 x 1 ml

120002-01-5PAK

Lot #	Storage	Expiry
179059	-10 Degrees C	9/19/13

Solv: P/T Methanol

8260B Surrogate Solution

Lot #: 179059 - 29580

Rec: 9/22/11 MFR exp. 09/19/13

01/03/12 RS

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

01-03-12B							
20ug/ml BFB STD			Conc.		Date	EXP:	
EXP: 02-30-12			ug/ml	Lot#	CODE	Date	ul
02SI	020135-03	4-Bromofluorobenzene	2500	163173-29056	11-30-11A	12/11/12	16
J&T Baker		Purge & Trap MeOH		K07E34-00563	12/27/11	09/28/12	1980
01-03-12C							
20ug/ml BFB STD			Conc.		Date	EXP:	
EXP: 02-30-12			ug/ml	Lot#	CODE	Date	ul
02SI	020135-03	4-Bromofluorobenzene	2500	163173-29056	11-30-11A	12/11/12	16
J&T Baker		Purge & Trap MeOH		K07E34-00563	12/27/11	09/28/12	1980

01/03/12 RS

11/09/12 RS

01-03-12D							
250ug/ml 8260 Surrogate - Sweetpea			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120002-01	Surrogate Standards	2000	179059-29580	01-03-12A	02/10/12	500
J.T.Baker		Purge & Trap MeOH		K07E34-00563	12/27/11	10/14/12	3500

01/03/12 RS.

11/09/12 RS

01-03-12E							
250ug/ml 8260 Surrogate - Chico			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120002-01	Surrogate Standard	2000	179059-29580	01-03-12E	10/23/12.	500
J&T Baker		Purge & Trap MeOH		K07E34-00543	08/12/11	11/14/12	3500

01/03/12 RS.

11/09/12 RS

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

	Expiration Date:		01/04/12								
		6µg/mL Vol Std #9	6µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surr	6µg/mL Vol Std #10	50µg/mL Vol Std #1	50µg/mL Vol Std #2	6µg/mL Vol Std #3
Date	Conc.	12-27-11M	12-27-11Q	12-27-11I	12-27-11K	12-27-11P	12-27-11N	12-27-11J	12-27-11L	12-27-11O
Code	µg/L	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12
01-03-12F	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-03-12G	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	15
01-03-12H	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-03-12I	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-03-12J	10	n/a	n/a	10	10	25	n/a	10	20	n/a
01-03-12K	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-03-12L	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-03-12M	200	n/a	n/a	200	200	125	n/a	200	200	n/a

01/03/12 RS.

11/09/12 RS

250µg/mL TAPD	Final Vol
12-27-11R	w/P&T H2O
Exp:01-03-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

12/29/11 RS.

11/09/12 RS

Neo 524							
12-29-11A							
10ug/ml Neo-524 Internal Standard w/ Surrogate			Conc.		Date	Exp.	
			ug/ml	Lot #	Code	Date	uL
02SI	122450-02	524 Fortification Sol	1000	176776-29296	12-07-11A	03/10/12	200
J.T.Baker		Purge & Trap MeOH		K07E34-00563	12/07/11	06/12/12	19800

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

	Expiration Date:		12/30/11				
		6µg/mL Vol Std #9	50µg/mL Vol Std #7	50µg/mL Vol Std #8	250µg/mL TAPD	Final Vol
Date	Conc.	12-27-11M	12-27-11I	12-27-11K	12-27-11R	w/P&T H2O
Code	µg/L	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	mL
12-29-11B	0.2	2	n/a	n/a	2	50
12-29-11C	0.5	5	n/a	n/a	5	50
12-29-11D	1	10	n/a	n/a	10	50
12-29-11E	2	20	n/a	n/a	15	50
12-29-11F	10	n/a	10	10	25	50
12-29-11G	5	n/a	5	5	20	50
12-29-11H	40	n/a	40	40	35	50

12/29/11 RS

11/09/12 RS

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

1/09/12 RS

AK -

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
Solutions

Method 8260 Internal Standard
Lot #: 166255 - 29280
Rec: 8/5/11 MFR exp. 11/18/12

RS

1/09/12 RS

AL -

Fluorobenzene Solution, 2,000 mg/L, 1 ml
120132-02
Lot# 169170 | Storage ≤ 6 Degrees C | Expiry 2/13/14
Solv: P/T Methanol

Fluorobenzene
Lot #: 169170 - 29289
Rec: 8/5/11 MFR exp. 02/13/14

RS

1/09/12 RS

Sweetpea							
01-09-12AM							
250ug/ml 8260 Internal Standard - Sweetpea			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120302-03	Internal Standard Mix	2000	166255-29280	01-09-12AK	06/10/12	500
	020132-02	Fluorobenzene Standard	2000	169170-29289	01-09-12AL	06/10/12	500
J.T.Baker		Purge & Trap MeOH		K07E34-00569	01/09/12	10/14/12	3000
01-09-12AN							
250ug/ml 8260 Surrogate - Sweetpea			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120002-01	Surrogate Standards	2000	178653-29574	01-09-12E	06/10/12	500
J.T.Baker		Purge & Trap MeOH		K07E34-00569	01/09/12	10/14/12	3500

1-09-12 RS

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

	Expiration Date:		01/10/12								
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #6	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-09-12AO	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-09-12AP	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-09-12AQ	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-09-12AR	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-09-12AS	10	n/a	n/a	10	10	25	n/a	10	20 10	n/a
01-09-12AT	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-09-12AU	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-09-12AV	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPD	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

1/12/12 RS

Volatile Standard Curv

	Expiration
Date	
Code	Conc. µg/L
01-09-12AW	2
01-09-12AX	5
01-09-12AY	10
01-09-12AZ	20
01-09-12BA	50
01-09-12BB	100
01-09-12BC	200

1-09-12 RS

Volatile Standard Curv

	Expiration
Date	
Code	Conc. µg/L
01-10-12A	0.3
01-10-12B	0.5
01-10-12C	1
01-10-12D	5
01-10-12E	10
01-10-12F	40
01-10-12G	100
01-10-12H	200

1-09-12 RS

VolatBe Standard Cur

	Expiratio
Date	
Code	Conc. µg/L
01-10-12I	0.3
01-10-12J	0.5
01-10-12K	1
01-10-12L	5
01-10-12M	10
01-10-12N	40
01-10-12O	100
01-10-12P	200

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

		Expiration Date:		01/10/12							
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-09-12AW	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
01-09-12AX	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
01-09-12AY	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
01-09-12AZ	20	20	20	n/a	n/a	n/a	~~20~~ 10	n/a	20	n/a
01-09-12BA	50	n/a	n/a	5	5	5	n/a	5	n/a	5
01-09-12BB	100	n/a	n/a	10	10	10	n/a	10	n/a	10
01-09-12BC	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

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

		Expiration Date:		01/11/12						
		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 #1	5µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-10-12A	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-10-12B	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-10-12C	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-10-12D	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-10-12E	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-10-12F	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-10-12G	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-10-12H	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPD	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

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

		Expiration Date:		01/11/12						
		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 #1	5µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-10-12I	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-10-12J	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-10-12K	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-10-12L	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-10-12M	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-10-12N	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-10-12O	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-10-12P	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPD	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

Exp.	
Date	uL
06/10/12	500
06/10/12	500
10/14/12	3000
Exp.	
Date	uL
06/10/12	500
10/14/12	3500

ol Std #2	5µg/mL Vol Std #12
12Q	01-09-12T
6-12	Exp:01-16-12
	3
	5
	10
10	n/a
	n/a
	n/a
	n/a
	n/a

0µg/mL TAPD	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

4-Bromofluorobenzene
Solution, 2,500 mg/L, 1 ml

020135-03

Lot #	Storage	Expiry
163173	≤-10 Degrees	8/24/13

Solvent: P/T Methanol

4-Bromofluorobenzene
Lot #: 163173 - 29053
Rec: 8/1/11 MFR exp. 08/24/13

A-

8/12/12

RS

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

01-12-12B							
25ug/ml BFB STD			Conc.		Date	EXP:	
EXP: 02-12-12			ug/ml	Lot#	CODE	Date	ul
025I	020135-03	4-Bromofluorobenzene	2500	163173-29056	01-12-12A	05/11/12	20
J&T Baker		Purge & Trap MeOH		K07E34-00569	01/09/12	09/28/12	1980
01-12-12C							
25ug/ml BFB STD			Conc.		Date	EXP:	
EXP: 02-12-12			ug/ml	Lot#	CODE	Date	ul
025I	020135-03	4-Bromofluorobenzene	2500	163173-29056	01-12-12A	05/11/12	20
J&T Baker		Purge & Trap MeOH		K07E34-00569	01/09/12	09/28/12	1980

1/12/12 RS.

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

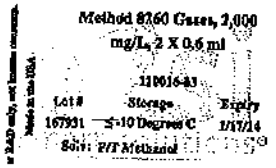
	Expiration Date:		01/14/12							
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #1	50µg/mL Vol Std #2	5µg/mL Vol Std #3
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-13-12A	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5.0
01-13-12B	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10.0
01-13-12C	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-13-12D	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-13-12E	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-13-12F	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-13-12G	200	n/a	n/a	200	200	125	n/a	200	200	n/a

1/13/12 RS

250µg/mL TAPP	1 PPM VOA
01-09-12W	1wPAT
Exp:01-16-12	5.0mL
5	250
10	250
20	250
25	250
35	250
40	250
45	250

1/16/12 RS

A-



Method 8260 Gases
Lot #: 167931 - 28285
Rec: 2/17/11 MFR exp. 01/17/14

RS

1/16/12 RS

B-

2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 2 X 0.6 ml

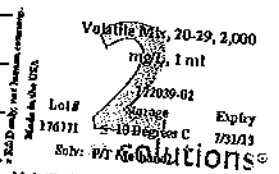
n2si
2-Chloroethyl vinyl ether
Cat. No: 020145-02-02
Lot No: 160092
Exp: 5/27/2012
Storage: </= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

Lot #: 160092 - 26840
Rec: 6/4/10 MFR exp. 05/27/12

RS

1/16/12 RS

C-



Volatile Mix, 20-29
Lot #: 176771 - 29197
Rec: 8/5/11 MFR exp. 07/31/13

RS

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # ___

Part #: 38022 Laboratory Use Only - See MSDS
Lot #: WS0049 Exp: 112814 Storage 4 °C
WS Regulated VOCs
21 components
Varied in methanol
ABSOLUTE STANDAR
AY52840W01
26
68700
AY52840 W01
VOA_Frig

1/18/12 RS

REGULATED VOCs

1-18-2012 AS RS

8260 VOC Liquids Solution (Second Source), 2,000 mg/L, 1 ml
120023-03-SS
Lot # 176822 Storage ≤ -10 Degrees C Expiry 8/1/13
Solv: P/T Methanol
8260 VOC Liquids (SS)
Lot #: 176822 - 29262
Rec: 8/5/11 MFR exp. 08/01/13

RS

1/18/12 AS AT RS

Acrolein Solution (Second Source), 10,000 mg/L, 2 x 0.6 ml
010119-09-02-SS
Lot # 184365 Storage ≤ 6 Degrees C Expiry 2/15/12
Solv: Water, HELC Grade
Acrolein Solution SS
Lot #: 184365 - 30247
Rec: 1/19/12 MFR exp. 02/25/12

RS

1/19/12 RS. A -

8260B Surrogate Solution 2,000 mg/L, 5 x 1 ml
120002-01-SPAK
Lot # 178653 Storage ≤ -10 Degrees C Expiry 9/11/13
Solv: P/T Methanol
8260B Surrogate Solution
Lot #: 178653 - 29572
Rec: 9/22/11 MFR exp. 09/11/13

RS

1/19/12 RS

Volatile Standard Curve	
	Expiration D
Date Code	Conc. µg/L
01-19-12D	0.3
01-19-12E	0.5
01-19-12F	1
01-19-12G	2
01-19-12H	5
01-19-12I	10
01-19-12J	40
01-19-12K	100
01-19-12L	200

Volatile Standard Curve	
	Expiration D
Date Code	Conc. µg/L
01-20-12A	2
01-20-12B	6
01-20-12C	10
01-20-12D	20
01-20-12E	50
01-20-12F	100
01-20-12G	200

Volatile Standard Curve	
	Expiration D
Date Code	Conc. µg/L
01-23-12A	0.3
01-23-12B	0.5
01-23-12C	1
01-23-12D	5
01-23-12E	10
01-23-12F	40
01-23-12G	100
01-23-12H	200

Thor							
01-19-12B							
50ug/ml 8260 Internal Standard			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120302-03	Internal Standard Mix	2000	166255-29280	01-09-12AK	05/13/12	375
O2SI	020132-02	Fluorobenzene Standard	2000	169170-29289	01-09-12AL	05/13/12	375
J.T Baker		Purge & Trap MeOH		K07E34-00572	01/19/12	06/10/12	14250
For Neo's "The One" Autosampler							
01-19-12C							
50ug/ml 8260B Surrogate-Thor			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	8260B Surr	Surrogate Standards	2000	173249-29572	01-19-12A	05/13/12	375
J.T Baker		Purge & Trap MeOH		K07E34-00572	01/19/12	06/10/12	14625

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

	Expiration Date:		01/20/12							
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #6	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date:	Conc.	01-09-12U	01-09-12Y	01-09-12Q	01-09-12S	01-09-12X	01-09-12V	01-09-12R	01-09-12T	01-09-12W
Code:	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-19-12D	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-19-12E	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-19-12F	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-19-12G	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
01-19-12H	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-19-12I	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-19-12J	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-19-12K	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-19-12L	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPD	Final Vol
01-09-12A	w/P&T H2O
Exp:01-16-12	mL
3	50
5	50
10	50
15	50
20	50
25	50
35	50
40	50
45	50

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

	Expiration Date:		01/21/12							
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #6	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date:	Conc.	01-18-12K	01-18-12O	01-18-12G	01-18-12I	01-18-12N	01-18-12L	01-18-12H	01-18-12J	01-18-12M
Code:	µg/L	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12
01-20-12A	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
01-20-12B	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
01-20-12C	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
01-20-12D	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
01-20-12E	50	n/a	n/a	5	5	5	n/a	5	n/a	5
01-20-12F	100	n/a	n/a	10	10	10	n/a	10	n/a	10
01-20-12G	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA	Final Vol
01-18-12P	w/P&T H2O
Exp:01-25-12	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

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

	Expiration Date:		01/24/12							
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #6	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	01-18-12K	01-18-12O	01-18-12G	01-18-12I	01-18-12N	01-18-12L	01-18-12H	01-18-12J	01-18-12J
Code	µg/L	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12
01-23-12A	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-23-12B	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-23-12C	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-23-12D	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-23-12E	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-23-12F	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-23-12G	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-23-12H	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPD	Final Vol
01-18-12P	w/P&T H2O
Exp:01-25-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

A

01/25/12 SMM

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml
120316-03-SS

Lot #	Storage	Expiry
178557	≤ -10 Degrees C	9/13/14

Solv: P/T Methanol

Method 8260 Gases (SS)
Lot #: 178557 - 28518
Rec: 9/20/11 MFR exp. 09/13/14

SMM

B

01/25/12 SMM

2-Chloroethyl Vinyl Ether Solution (Second Source), 2,000 mg/L, 2 X 0.6 ml
020145-03-02-SS

Lot #	Storage	Expiry
181404	≤ -10 Degrees C	11/10/13

Solv: P/T Methanol

2-Chloroethyl vinyl ether
Lot #: 181404 - 30008
Rec: 11/16/11 MFR exp. 11/10/13

SMM

C

01/25/12 SMM

8260 VOC Liquids Solution (Second Source), 2,000 mg/L, 1 ml
120323-03-SS

Lot #	Storage	Expiry
167814	≤ -10 Degrees C	1/10/13

Solv: P/T Methanol

8260 VOC Liquids (SS)
Lot #: 167814 - 28709
Rec: 4/20/11 MFR exp. 01/10/13

SMM

D

01/25/12 SMM

Vinyl Acetate Solution (Second Source), 2,000 mg/L, 1 ml
020292-02-SS

Lot #	Storage	Expiry
183906	≤ -10 Degrees C	4/5/12

Solv: P/T Methanol

Vinyl Acetate (SS)
Lot #: 183906 - 30195
Rec: 1/10/12 MFR exp. 04/05/12

SMM

E

01/25/12 SMM

Custom 8260 Solution, Second Source, 2,000 mg/L, 1 ml
120295-01-SS

Lot #	Storage	Expiry
166038	≤ -10 Degrees C	5/18/12

Solv: P/T Methanol

Custom 8260 Solution, 2000mg/L (SS)
Lot #: 166038 - 27766
Rec: 11/19/10 MFR exp. 05/18/12

SMM

F

01/25/12 SMM

G

01/25/12 SMM

H

01/25/12 SMM

I

01/25/12 SMM

J

01/25/12 SMM

F

n-Hexane Solution (Second Source), 1,000 mg/L, 1 ml

020424-02-SS

Lot #	Storage	Expiry
179199		9/21/13

Solv: P/T Methanol

n-Hexane (SS) 1000mg/L

Lot #: 179199 - 29612

Rec: 10/5/11 MFR exp. 09/21/13

G

Hexachloroethane (Second Source) Solution, 1000 mg/L, 1 ml

020429-02-SS

Lot #	Storage	Expiry
183795	≤-10 Degrees C	1/3/14

Solv: P/T Methanol

Hexachloroethane (SS)

Lot #: 183795 - 30199

Rec: 1/10/12 MFR exp. 01/03/14

H

Acrolein Solution (Second Source), 10,000 mg/L, 2 x 0.6 ml

020429-09-02-SS

Lot #	Storage	Expiry
182703	≤ 6 Degrees C	1/21/12

Solv: Water, HPLC Grade

Lot #: 182703 - 30108

Rec: 12/15/11 MFR exp. 01/21/12

I

VOC Mix 4-3 (second source), 2,000 mg/L, 1 ml

120166-01-SS

Lot #	Storage	Expiry
163778	</= 6 Degrees	9/9/12

Solv: P/T Methanol

VOC Mix 4-3 (SS)

Lot #: 163778 - 29835

Rec: 10/24/11 MFR exp. 09/09/12

J

Heptane Solution (Second Source), 1000 mg/L, 1 ml

02si smart solutions

Cat. No: 020546-02-SS
Lot No: 142276

Exp: 1/19/2012
Storage: </= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

Heptane Solution (SS)

Lot #: 142276 - 26578

Rec: 5/11/10 MFR exp. 01/19/12

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

1/25/12
1/26/12 K-
RS

2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 2 X 0.6 ml

n2si
2-Chloroethyl vinyl ether
Cat. No: 020145-02-02
Lot No: 160092
Lot #: 160092 - 26641
Rec: 6/4/10 MFR exp. 05/27/12

Exp: 5/27/2012
Storage: </= -10 Deurees C
Solvent: P/T Methanol
on For Research Use Only
ened: _____

RS 1/25

1/25/12
1/26/12 L-
RS

n-Hexane Solution, 1,000 mg/L, 1 ml
020620-02
Lot # 163378 | Storage ≤ -10 Degree | Expiry 8/29/15
Solv: P/T Methanol
RAD only, not human consumption. Made in the USA.

n-Hexane Solution
Lot #: 163378 - 29232
Rec: 8/5/11 MFR exp. 08/29/15

RS 1/25

1/25/12
1/26/12 M-
RS

Method 8260 Gases, 2,000 mg/L, 2 X 0.6 ml
Lot # 167931 | Storage ≤ -10 Degrees C | Expiry 1/17/14
Solv: P/T Methanol
RAD only, not human consumption. Made in the USA.

Method 8260 Gases
Lot #: 167931 - 28286
Rec: 2/17/11 MFR exp. 01/17/14

RS 1/25

1/25/12
1/26/12 N-
RS

Heptane Solution, 1000 mg/L, 1 ml
Lot # 169174 | Storage ≤ -10 Degrees C | Expiry 2/18/14
Solv: P/T Methanol
RAD only, not human consumption. Made in the USA.

Heptane Solution
Lot #: 169174 - 28326
Rec: 2/17/11 MFR exp. 02/18/14

RS 1/25

1/25/12
1/26/12 O-
RS

8260B Surrogate Solution, 2,000 mg/L, 5 x 1 ml
120002-01-5PAK
Lot # 176553 | Storage ≤ -10 Degrees C | Expiry 9/11/13
Solv: P/T Methanol
RAD only, not human consumption. Made in the USA.

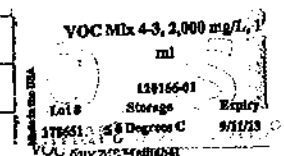
8260B Surrogate Solution
Lot #: 176553 - 29570
Rec: 9/22/11 MFR exp. 09/11/13

RS. 1/25

1/25/12
1/26/12
RS

11/25/12

P-



PS 1/25

01-25-12Q							
50ug/ml Vol Work Std #7							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	167931-28286	01-25-12M	01/30/12	100
02SI	020049-02	HEXACHLOROETHANE	1000	164816-29154	01-18-12A	02/07/12	200
02SI	020228-02	Benzyl Chloride	1000	176701-29775	01-18-12B	02/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3500
01-25-12R							
50ug/ml Vol Work Std #1							
Exp:02/01/12							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	160092-26641	01-25-12K	02/07/12	50
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	1950
01-25-12S							
50ug/ml Vol Work Std #8							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	176771-29197	01-16-12C	02/01/12	100
02SI	120023-03	VOC'S-54 COMP	2000	164454-27875	01-09-12D	02/14/12	100
02SI	020232-02	Vinyl Acetate	2000	182701-30110	01-18-12C	03/11/12	100
02SI	020620-02	n-Hexane	1000	163378-29232	01-25-12L	02/07/12	200
02SI	020546-02	Heptane	1000	169174-28326	01-25-12N	02/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3300
01-25-12T							
50ug/ml Vol Work Std #2							
Exp:02/01/12							
Supplier	ID #	ID	ug/ml				
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-29212	01-16-12E	02/07/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3900
		01-25-12U	Exp:	02/01/12			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		01-25-12Q	02/01/12	200	
		50ug/ml Vol Work Std #8		01-25-12S	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1600	
		01-25-12V	Exp:	02/01/12			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		01-25-12R	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
		01-25-12W	Exp:	02/01/12			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		01-25-12T	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
01-25-12X							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:02/01/12			ug/ml	Lot #	Code	Date	uL
02SI	120002-01	8260B Surr Solution	2000	179059-29570	01-25-12O	02/07/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3900
01-25-12Y			Exp:	02/01/12			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		01-25-12X	02/01/12	200	
J&T Brand		Purge & Trap MeOH		01/23/12	06/08/12	1800	

01-25-12Z							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/01/12			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	
02SI	120166-01	Volatile Mix 4-3	2000	178651-29811	01-25-12P	02/07/12	
02SI	020229-09	Acrolein	10000	182702-30106	01-18-12E	01/21/12	
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	

1/25/12 RS.

01-25-12AA							
50ug/ml VOC Std#5							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	
02SI	120016-03-SS	8260 Gases(SS)	2000	178557-29518	01-25-12A	02/01/12	
02SI	020145-02-02-	2-CEVE	2000	181404-30008	01-25-12B	06/14/12	
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	
01-25-12AB							
50ug/ml VOC Std#6							
Exp:02/01/12							
	ID #	ID	ug/ml	Lot #	Code	Date	
02SI	120023-03-SS	VOC'S 54 COMP.	2000	167814-28709	01-25-12C	06/14/12	
02SI	120296-01	Custom 8260 Solution	2000	166038-27766	01-25-12E	05/18/12	
02SI	020232-02-SS	Vinyl Acetate(SS)	2000	183906-30195	01-25-12D	04/05/12	
02SI	020620-02-SS	n-HEXANE	1000	179199-29612	01-25-12F	06/14/12	
02SI	020049-02-SS	HEXACHLOROETHANE	1000	183795-30199	01-25-12G	06/29/12	
02SI	020546-02-SS	Heptane(SS)	1000	142276-26578	01-25-12J	01/19/12	
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	
01-25-12AC							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/01/12			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	
02SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	163778-29835	01-25-12I	06/14/12	
02SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	182703-30108	01-25-12H	01/21/12	
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	

1/25/12 RS.

01-25-12AD							
50ug/ml Vol Work Std #7							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	
02SI	120016-03	Gas Mix	2000	167931-28286	01-25-12M	01/30/12	
02SI	020049-02	HEXACHLOROETHANE	1000	164816-29154	01-18-12A	02/07/12	
02SI	020228-02	Benzyl Chloride	1000	176701-29775	01-18-12B	02/07/12	
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	
01-25-12AE							
50ug/ml Vol Work Std #1							
Exp:02/01/12							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	
02SI	020145-02-02	2-CEVE	2000	160092-26641	01-25-12K	02/07/12	
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	
01-25-12AF							
50ug/ml Vol Work Std #8							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	
02SI	122039-02	Volatile Mix, 20-29	2000	176771-29197	01-16-12C	02/01/12	
02SI	120023-03	VOC'S-54 COMP	2000	164454-27875	01-09-12D	02/14/12	
02SI	020232-02	Vinyl Acetate	2000	182701-30110	01-18-12C	03/11/12	
02SI	020620-02	n-Hexane	1000	163378-29232	01-25-12L	02/07/12	
02SI	020546-02	Heptane	1000	169174-28326	01-25-12N	02/07/12	
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	
01-25-12AG							
50ug/ml Vol Work Std #2							
Exp:02/01/12							
Supplier	ID #	ID	ug/ml				
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-29212	01-16-12E	02/07/12	
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	

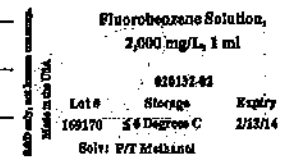
1/25/12 RS.

		01-25-12AH	Exp:	02/01/12			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		01-25-12AD	02/01/12	200	
		50ug/ml Vol Work Std #8		01-25-12AF	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1600	
		01-25-12AI	Exp:	02/01/12			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		01-25-12AE	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
		01-25-12AJ	Exp:	02/01/12			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		01-25-12AG	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
01-25-12AK							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:02/01/12			ug/ml	Lot #	Code	Date	uL
02SI	120002-01	8260B Surr Solution	2000	179059-29570	01-25-12O	02/07/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3900
01-25-12AL			Exp:	02/01/12			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		01-25-12AK	02/01/12	200	
J&T Brand		Purge & Trap MeOH		01/23/12	06/08/12	1800	
01-25-12AM							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/01/12			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	178651-29811	01-25-12P	02/07/12	500
02SI	020229-09	Acrolein	10000	182702-30106	01-18-12E	01/21/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3400

A -

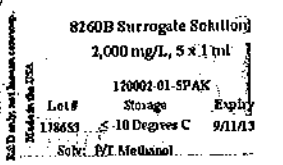
Method 8260 Internal Standard
Lot #: 166255 - 29271
Rec: 8/5/11 MFR exp. 11/18/12

B -



Fluorobenzene
Lot #: 169170 - 29290
Rec: 8/5/11 MFR exp. 02/13/14

C -



8260B Surrogate Solution
Lot #: 178653 - 29571
Rec: 9/22/11 MFR exp. 09/11/13

Sweetpea						
01-24-11D						
250ug/ml 8260 Internal Standard w/ Surrogate			Conc.	Lot #	Date	Exp.
O2SI	120302-03	Internal Standard Mix	2000	166255-29271	01-24-12A	06/09/12
O2SI	020132-02	Fluorobenzene Standard	2000	169170-29290	01-24-12B	06/09/12
O2SI	120002-01	Surrogate Standard	2000	178653-29571	01-24-12C	06/09/12
J.T.Baker		Purge & Trap MeOH		K07E34-00570	01/23/12	09/23/12

1/24/12 RS. 1/25/12

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

		Expiration Date:		01/25/12					
		5µg/mL Vol Std #9	5µg/mL Vol Std #12	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Vol Std #2	250µg/mL TAPD	Final Vol
Date	Conc.	01-18-12K	01-18-12M	01-18-12G	01-18-12I	01-18-12J	01-18-12P	w/P&T H2O
Code	µg/L	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	mL
01-24-12E	0.2	2	2	n/a	n/a	n/a	2	50
01-24-12F	0.5	5	5	n/a	n/a	n/a	5	50
01-24-12G	1	10	10	n/a	n/a	n/a	10	50
01-24-12H	5	n/a	n/a	5	5	40	20	50
01-24-12I	10	n/a	n/a	10	10	20	25	50
01-24-12J	40	n/a	n/a	40	40	100	35	50
01-24-12K	100	n/a	n/a	100	100	200	40	50

1/24/12 RS.

1/26/12 RS

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

		Expiration Date:		01/25/12						
		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 #1	50µg/mL Vol Std #2	250µg/mL TAPD
Date	Conc.	01-25-12U	01-25-12V	01-25-12Q	01-25-12S	01-25-12X	01-25-12V	01-25-12R	01-25-12T	01-25-12W
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-25-12AN	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-25-12AO	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-25-12AP	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-25-12AQ	5	n/a	n/a	5	5	10	n/a	5	5	20
01-25-12AR	10	n/a	n/a	10	10	25	n/a	10	10	25
01-25-12AS	40	n/a	n/a	40	40	80	n/a	40	40	35
01-25-12AT	100	n/a	n/a	100	100	100	n/a	100	100	40
01-25-12AU	200	n/a	n/a	200	200	125	n/a	200	200	45

1/25/12 RS

1/26/12 RS

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

		Expiration Date:		01/25/12						
		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 #1	50µg/mL Vol Std #2	250µg/mL TAPD
Date	Conc.	01-18-12K	01-18-12O	01-18-12G	01-18-12I	01-18-12N	01-18-12L	01-18-12H	01-18-12J	01-18-12P
Code	µg/L	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12
01-24-12L	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-24-12M	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-24-12N	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-24-12O	5	n/a	n/a	5	5	10	n/a	5	5	20
01-24-12P	10	n/a	n/a	10	10	25	n/a	10	10	25
01-24-12Q	40	n/a	n/a	40	40	80	n/a	40	40	35
01-24-12R	100	n/a	n/a	100	100	100	n/a	100	100	40

1/24/12 RS

1/26/12 RS

NOTEBOOK INSERT LABEL

Gasoline
Lot: LB82077 EXP: FEB/2014 STORAGE: ROOM TEMP. 47516-U 1 x 1ml

A-

DATE RECEIVED:_____

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

RS.

STANDARD TRANSFER LABEL

Date of Preparation: Exp. Date:

Reference Number: Storage: EXP: FEB/2014 ROOM TEMP.

Description: Gasoline

Lot #: LB82077 - 29979
Rec: 11/11/11 MFR exp. 02/28/14
gasoline

B-

RESTEK Catalog # 3

Unleaded gasoline composite
Lot #: A081012 - 29980
Rec: 11/14/11 MFR exp. 05/30/18

Unleaded Gasoline Composite Standard

50000 ug/mL each in P&T Methanol
Lot# A081012 Exp Date: 05/2018 Store: 0°C or colder

RS.

01/26/12C							
2000ug/ml Gasoline							
Supplier	ID #		Conc. ug/ml	Lot #	Date Code	APPL Exp. Date	uL
Supelco	LB82077	Gasoline	20,000	LB82077-29979	01-26-12A	02/01/14	200
J&T Brand		Purge & Trap MeOH		K01B34-00570	01/23/12	08/02/12	1800
01/26/12D							
2000ug/ml Unleaded Gasoline							
Supplier	ID #		Conc. ug/ml	Lot #	Date Code	APPL Exp. Date	uL
Restek	30205	Unleaded Gasoline	50,000	A081012-29980	01-26-12B	02/01/14	80
J&T Brand		Purge & Trap MeOH		K07B34-00570	01/23/12	08/02/12	1920

RS

Gasoline Curve Preparation for 100mL Purge (water)-CHICO			
	Expiration Date:		01/27/12
		50µg/mL Gasoline	Final Vol
Date	Conc.	01-26-12C	w/P&T H2O
Code	µg/L	Exp.01-03-12	mL
01-26-12E	20	1	100
01-26-12F	50	2.5	100
01-26-12G	100	5	100
01-26-12H	300	15	100
01-26-12I	600	30	100
01-26-12J	800	40	100
01-26-12K	1000	50	100

RS.

Volatile Standard Curve Preparation for 5mL Purge (8260 soil)-THOR										
Date:	Expiration Date:		01/27/12							
Date		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Code	Conc. µg/L	01-25-12AH Exp:02-01-12	01-25-12AL Exp:02-01-12	01-26-12AD Exp:02-01-12	01-25-12AF Exp:02-01-12	01-25-12AK Exp:02-01-12	01-25-12AI Exp:02-01-12	01-25-12AE Exp:02-01-12	01-25-12AG Exp:02-01-12	01-25-12AJ Exp:02-01-12
01-26-12L	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
01-26-12M	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
01-26-12N	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
01-26-12O	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
01-26-12P	50	n/a	n/a	5	5	5	n/a	5	n/a	5
01-26-12Q	100	n/a	n/a	10	10	10	n/a	10	n/a	10
01-26-12R	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA	Final Vol
01-25-12AM	w/P&T H2O
Exp:02-01-12	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

50

1/28/12 RS

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

	Expiration Date:		01/29/12							
		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 #1	50µg/mL Vol Std #2	50µg/mL Vol Std #3
Date	Conc.	01-25-12AH	01-25-12AL	01-25-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AC
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-28-12H	2	2	2	n/a	n/a	n/a	2	n/a	n/a	n/a
01-28-12I	5	5	5	n/a	n/a	n/a	5	n/a	n/a	n/a
01-28-12J	10	10	10	n/a	n/a	n/a	10	n/a	n/a	n/a
01-28-12K	20	20	20	n/a	n/a	n/a	20	n/a	n/a	n/a
01-28-12L	50	n/a	n/a	5	5	5	n/a	5	n/a	n/a
01-28-12M	100	n/a	n/a	10	10	10	n/a	10	n/a	n/a
01-28-12N	200	n/a	n/a	20	20	20	n/a	20	n/a	n/a

1/31/12 RS

A -

EPA Method 502/524
Fortification Solution, 3-1,
1000 mg/L, 1 ml
122450-02
Lot# 176776 Storage 5 -10 Degrees C Expiry 7/31/13
Solvent: P/T Methanol
Supelco solutions®
EPA Method 502/524 Fortification
Lot #: 176776 - 29297
Rec: 8/5/11 MFR exp. 07/31/13

RS.

Thor 524					
01-31-12B					
10ug/ml Nac-524 Internal Standard w/ Surrogate			Conc.		Date
			ug/ml	Lot #	Code
02SI	122450-02	524 Fortification Sol	1000	176776-29297	01-31-12A
J.T.Baker		Purge & Trap MeOH		K07E34-00571	01/25/12

1/31/12 RS

CHICO					
01-31-12C					
250ug/ml 8260 Internal Standard - Chico			Conc.		Date
Supplier	ID #		ug/ml	Lot #	Code
02SI	120302-03	Internal Standard Mix	2000	166255-29273	01-28-12D
02SI	020132-02	Fluorobenzene Standard	2000	169170-29282	01-28-12E
J&T Baker		Purge & Trap MeOH		K07E34-00571	01/25/12

1/31/12 RS.

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

	Expiration Date:		02/01/12							
		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 #1	50µg/mL Vol Std #2	50µg/mL Vol Std #3
Date	Conc.	01-25-12AH	01-25-12AL	01-25-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AC
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-31-12D	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a
01-31-12E	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a
01-31-12F	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a
01-31-12G	5	n/a	n/a	5	5	10	n/a	5	n/a	n/a
01-31-12H	10	n/a	n/a	10	10	25	n/a	10	n/a	n/a
01-31-12I	20	n/a	n/a	20	20	40	n/a	20	n/a	n/a
01-31-12J	40	n/a	n/a	40	40	80	n/a	40	n/a	n/a
01-31-12K	100	n/a	n/a	100	100	100	n/a	100	n/a	n/a

1/31/12 RS.

L -

Fluorobenzene Solution,
2,000 mg/L, 1 ml
Lot# 169170 Storage 5 Degrees C Expiry 2/13/14
Solvent: P/T Methanol
Fluorobenzene
Lot #: 169170 - 29283
Rec: 8/5/11 MFR exp. 02/13/14

RS.

Injection Log

Directory: M:\CHICO\DATA\C120125

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0125C00T.D	1	25ug/mL BFB Std. 01-12-12	2uL	01/25/2012 12:41
2	1	0125C07W.D	1	Vol. Std. 01-25-12@0.3ug/L	Water 10mLw/ IS&S:12-	01/25/2012 17:16
3	1	0125C08W.D	1	Vol. Std. 01-25-12@0.5ug/L	Water 10mLw/ IS&S:12-	01/25/2012 17:53
4	1	0125C09W.D	1	Vol. Std. 01-25-12@1.0ug/L	Water 10mLw/ IS&S:12-	01/25/2012 18:30
5	1	0125C10W.D	1	Vol. Std. 01-25-12@5.0ug/L	Water 10mLw/ IS&S:12-	01/25/2012 19:07
6	1	0125C11W.D	1	Vol. Std. 01-25-12@10ug/L	Water 10mLw/ IS&S:12-	01/25/2012 19:44
7	1	0125C12W.D	1	Vol. Std. 01-25-12@40ug/L	Water 10mLw/ IS&S:12-	01/25/2012 20:21
8	1	0125C13W.D	1	Vol. Std. 01-25-12@100ug/L	Water 10mLw/ IS&S:12-	01/25/2012 20:58
9	1	0127C00T.D	1	25ug/mL BFB Std. 01-12-12	2uL	01/27/2012 09:32
10	1	0127C02W.D	1	10ug/L Vol Std 01-27-12	Water 10mLw/ IS:12-06-	01/27/2012 10:41
11	1	0127C03W.D	1	120127A LCS-1WC	Water 10mLw/ IS:12-06-	01/27/2012 11:18
12	1	0127C09W.D	1	120127A BLK-1WC	Water 10mLw/ IS:12-06-	01/27/2012 15:01
13	1	0127C11W.D	1	AY53809W01	Water 10mLw/ IS:12-06-	01/27/2012 16:16
14	1	0127C15W.D	1	AY53807W01	Water 10mLw/ IS:12-06-	01/27/2012 18:44
15	1	0127C16W.D	1	AY53808W01	Water 10mLw/ IS:12-06-	01/27/2012 19:21

Injection Log

Directory: M:\THOR\DATA\T120131\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0131T00T.D	1	5ng- BFB STD 1-12-12	2ul	31 Jan 12 10:01
2	4	0131T04W.D	1	0.3ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11	31 Jan 12 11:46
3	5	0131T05W.D	1	0.5ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11	31 Jan 12 12:14
4	6	0131T06W.D	1	1.0ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11	31 Jan 12 12:42
5	7	0131T07W.D	1	5.0ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11	31 Jan 12 13:10
6	8	0131T08W.D	1	10ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11	31 Jan 12 13:37
7	9	0131T09W.D	1	20ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11	31 Jan 12 14:05
8	10	0131T10W.D	1	40ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11	31 Jan 12 14:32
9	11	0131T11W.D	1	100ug/L VOC STD 1-31-12	10ml w/5ul of IS: 12-25-11	31 Jan 12 15:00
10	16	0131T16W.D	1	10ug/L VOC STd 1-31-12	10ml w/5ul of IS: 12-25-11	31 Jan 12 17:19
11	17	0131T17W.D	1	120131A LCS-1WT	10ml w/5ul of IS: 12-25-11	31 Jan 12 17:46
12	24	0131T24W.D	1	120131A BLK-1WT	10ml w/5ul of IS: 12-25-11	31 Jan 12 21:00
13	25	0131T25W.D	1	AY53809W02	10ml w/5ul of IS: 12-25-11	31 Jan 12 21:27
14	1	0201T00T.D	1	5ng- BFB STD 1-12-12	2ul	1 Feb 12 8:48
15	2	0201T02W.D	1	10ug/L VOC STd 2-01-12	10ml w/5ul of IS: 12-25-11	1 Feb 12 9:54
16	24	0201T24W.D	1	AY53807W02 MS-1WT	10ml w/5ul of IS: 12-25-11	1 Feb 12 20:03

Injection Log

Directory: M:\CHICO\DATA\C120125

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0125C24T.D	1	25ug/mL BFB Std. 01-12-12	2uL	01/26/2012 16:30
2	1	0125C28W.D	1	VOC Mix Marker	Water 10mLw/ IS:12-06-	01/26/2012 18:55
3	1	0125C29W.D	1	Vol. Std. 01-26-12@20ug/L	Water 10mLw/ IS:12-06-	01/26/2012 19:32
4	1	0125C30W.D	1	Vol. Std. 01-26-12@50ug/L	Water 10mLw/ IS:12-06-	01/26/2012 20:09
5	1	0125C31W.D	1	Vol. Std. 01-26-12@100ug/L	Water 10mLw/ IS:12-06-	01/26/2012 20:46
6	1	0125C32W.D	1	Vol. Std. 01-26-12@300ug/L	Water 10mLw/ IS:12-06-	01/26/2012 21:24
7	1	0125C33W.D	1	Vol. Std. 01-26-12@600ug/L	Water 10mLw/ IS:12-06-	01/26/2012 22:01
8	1	0125C34W.D	1	Vol. Std. 01-26-12@800ug/L	Water 10mLw/ IS:12-06-	01/26/2012 22:38
9	1	0125C35W.D	1	Vol. Std. 01-26-12@1000ug/L	Water 10mLw/ IS:12-06-	01/26/2012 23:15
10	1	0125C38W.D	1	Second Source 01-26-12	Water 10mLw/ IS:12-06-	01/27/2012 01:06
11	1	0127C00T.D	1	25ug/mL BFB Std. 01-12-12	2uL	01/27/2012 09:32
12	1	0127C05W.D	1	CCV gas 300ug/L	Water 10mLw/ IS:12-06-	01/27/2012 12:32
13	1	0127C06W.D	1	LCS gas 300ug/L	Water 10mLw/ IS:12-06-	01/27/2012 13:10
14	1	0127C09W.D	1	120127A BLK-1WC	Water 10mLw/ IS:12-06-	01/27/2012 15:01
15	1	0127C11W.D	1	AY53809W01	Water 10mLw/ IS:12-06-	01/27/2012 16:16
16	1	0127C15W.D	1	AY53807W01	Water 10mLw/ IS:12-06-	01/27/2012 18:44
17	1	0127C16W.D	1	AY53808W01	Water 10mLw/ IS:12-06-	01/27/2012 19:21

Injection Log

Directory: M:\CHICO\DATA\C120125

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0125C24T.D	1	25ug/mL BFB Std. 01-12-12	Water 2uL	01/26/2012 16:30
2	1	0125C28W.D	1	VOC Mix Marker	Water 10mLw/ IS:12-06-	01/26/2012 18:55
3	1	0125C29W.D	1	Vol. Std. 01-26-12@20ug/L	Water 10mLw/ IS:12-06-	01/26/2012 19:32
4	1	0125C30W.D	1	Vol. Std. 01-26-12@50ug/L	Water 10mLw/ IS:12-06-	01/26/2012 20:09
5	1	0125C31W.D	1	Vol. Std. 01-26-12@100ug/L	Water 10mLw/ IS:12-06-	01/26/2012 20:46
6	1	0125C32W.D	1	Vol. Std. 01-26-12@300ug/L	Water 10mLw/ IS:12-06-	01/26/2012 21:24
7	1	0125C33W.D	1	Vol. Std. 01-26-12@600ug/L	Water 10mLw/ IS:12-06-	01/26/2012 22:01
8	1	0125C34W.D	1	Vol. Std. 01-26-12@800ug/L	Water 10mLw/ IS:12-06-	01/26/2012 22:38
9	1	0125C35W.D	1	Vol. Std. 01-26-12@1000ug/L	Water 10mLw/ IS:12-06-	01/26/2012 23:15
10	1	0125C38W.D	1	Second Source 01-26-12	Water 10mLw/ IS:12-06-	01/27/2012 01:06

Injection Log

Directory: M:\CHICO\DATA\C120131

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0201C00T.D	1	25ug/mL BFB Std. 01-12-12	2uL	02/01/2012 12:01
2	1	0201C03W.D	1	120201A CCV-WC-GAS	Water 10mLw/ IS&S:01-	02/01/2012 13:48
3	1	0201C05W.D	1	AY53807W05 MS-1WC	Water 10mLw/ IS&S:01-	02/01/2012 15:02
4	1	0201C06W.D	1	AY53807W06 MSD-1WS	Water 10mLw/ IS&S:01-	02/01/2012 15:39

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.22 U	0.5	0.22	0.11	ug/L	01/31/12	02/03/12	#602D-120131A-AY53807

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	47.6	95.2	80-120	01/31/12	02/03/12	#602D-120131A-AY53807

463

Comments: _____

Matrix Spike Recoveries

METALS

APPL ID: **120131W-53807 MS - 163676**

Sample ID: AY53807

Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	50.0	0.14	46.9	46.5	93.5	92.7	0.9	20	80-120	01/31/12	02/03/12	01/31/12	02/03/12	163676	AY53807

Comments: _____

METALS
Sample Data

APPL, INC.

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: ES060
Sample Collection Date: 01/26/12

ARF: 66826
APPL ID: AY53807

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.14J	0.5	0.22	0.11	ug/L	1	01/31/12	02/03/12

J = Estimated value.

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\066SMPL.D\066SMPL.D#
Date Acquired: Feb 3 2012 05:55 pm
Operator: NBS
Sample Name: AY53807W16
Misc Info: 120131A-3015
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	0.00	ug/l	0.00	204.88	1000	
11 B	208.80	ug/l	231.98	1.43	1000	
23 Na	86390.00	ug/l	95979.29	1.81	25000	>Cal
24 Mg	30350.00	ug/l	33718.85	1.59	50000	
27 Al	6.11	ug/l	6.79	5.80	20000	
39 K	3506.00	ug/l	3895.17	3.73	20000	
44 Ca	23990.00	ug/l	26652.89	0.80	50000	
47 Ti	0.24	ug/l	0.27	13.45	1000	
51 V	17.57	ug/l	19.52	1.36	1000	
52 Cr	1.43	ug/l	1.59	0.61	1000	
55 Mn	59.35	ug/l	65.94	1.32	1000	
56 Fe	42.89	ug/l	47.65	1.21	20000	
59 Co	0.42	ug/l	0.47	3.71	1000	
60 Ni	2.66	ug/l	2.95	6.39	1000	
63 Cu	0.64	ug/l	0.72	4.83	1000	
65 Cu	0.68	ug/l	0.76	7.01	1000	
66 Zn	14.33	ug/l	15.92	1.73	1000	
75 As	0.72	ug/l	0.80	3.77	1000	
78 Se	0.12	ug/l	0.13	10.39	1000	
78 Se	0.58	ug/l	0.64	30.70	1000	
88 Sr	145.50	ug/l	161.65	0.53	1000	
88 Sr	145.80	ug/l	161.98	0.15	1000	
95 Mo	14.56	ug/l	16.18	1.64	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	-0.67	ug/l	-0.74	0.34	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.01	ug/l	0.02	62.33	1000	
118 Sn	0.51	ug/l	0.57	3.46	#######	
118 Sn	0.69	ug/l	0.77	4.12	#######	
118 Sn	0.70	ug/l	0.78	3.63	1000	
121 Sb	-0.01	ug/l	-0.01	149.51	1000	
137 Ba	11.34	ug/l	12.60	0.89	1000	
205 Tl	0.01	ug/l	0.01	38.69	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	0.12	ug/l	0.14	5.08	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3736221.80	0.51	3064290.80	121.9	70 - 120	IS Fai
45 Sc	3173232.80	0.88	2924075.00	108.5	70 - 120	
45 Sc	393684.34	0.77	340955.84	115.5	70 - 120	
45 Sc	6377861.00	0.98	5880860.00	108.5	70 - 120	
72 Ge	731770.19	1.13	724882.88	101.0	70 - 120	
72 Ge	243497.63	2.13	224740.89	108.3	70 - 120	
72 Ge	1294944.10	1.40	1271052.30	101.9	70 - 120	
115 In	5950631.50	1.45	5959684.00	99.8	70 - 120	
115 In	2454988.80	1.69	2344790.50	104.7	70 - 120	
115 In	8214885.00	0.96	8142423.50	100.9	70 - 120	
159 Tb	11409012.00	1.27	11331791.00	100.7	70 - 120	
165 Ho	11079953.00	1.17	10919742.00	101.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
1 :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: ES061
Sample Collection Date: 01/26/12

ARF: 66826
APPL ID: AY53808

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.17J	0.5	0.22	0.11	ug/L	1	01/31/12	02/03/12

J = Estimated value.

Printed: 02/07/12 1:07:26 PM
APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\071SMPL.D\071SMPL.D#
Date Acquired: Feb 3 2012 06:29 pm
Operator: NBS
Sample Name: AY53808W08
Misc Info: 120131A-3015
Vial Number: 3303
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	26.07	1000	
11 B	139.90	ug/l	155.43	1.43	1000	
23 Na	70830.00	ug/l	78692.13	0.43	25000	>Cal
24 Mg	30120.00	ug/l	33463.32	0.52	50000	
27 Al	4.03	ug/l	4.47	28.69	20000	
39 K	2870.00	ug/l	3188.57	0.70	20000	
44 Ca	15270.00	ug/l	16964.97	0.05	50000	
47 Ti	1.04	ug/l	1.16	4.59	1000	
51 V	1.62	ug/l	1.80	4.22	1000	
52 Cr	0.88	ug/l	0.97	3.16	1000	
55 Mn	1595.00	ug/l	1772.05	2.47	1000	>Cal
56 Fe	1776.00	ug/l	1973.14	1.04	20000	
59 Co	0.22	ug/l	0.24	8.19	1000	
60 Ni	0.51	ug/l	0.57	12.30	1000	
63 Cu	0.23	ug/l	0.25	7.06	1000	
65 Cu	0.25	ug/l	0.27	3.63	1000	
66 Zn	7.91	ug/l	8.79	0.09	1000	
75 As	0.22	ug/l	0.24	13.30	1000	
78 Se	0.11	ug/l	0.12	5.03	1000	
78 Se	0.55	ug/l	0.61	41.17	1000	
88 Sr	120.90	ug/l	134.32	0.41	1000	
88 Sr	122.60	ug/l	136.21	0.47	1000	
95 Mo	0.27	ug/l	0.30	1.55	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	-0.59	ug/l	-0.66	0.99	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.01	ug/l	0.02	8.55	1000	
118 Sn	0.46	ug/l	0.51	20.25	#######	
118 Sn	0.49	ug/l	0.54	8.12	#######	
118 Sn	0.55	ug/l	0.61	4.14	1000	
121 Sb	0.12	ug/l	0.14	22.19	1000	
137 Ba	24.34	ug/l	27.04	0.23	1000	
205 Tl	0.00	ug/l	0.00	598.37	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	0.16	ug/l	0.17	6.63	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3708023.30	1.30	3064290.80	121.0	70 - 120	IS Fai
45 Sc	3191409.80	0.47	2924075.00	109.1	70 - 120	
45 Sc	388339.81	1.16	340955.84	113.9	70 - 120	
45 Sc	6482003.00	1.78	5880860.00	110.2	70 - 120	
72 Ge	740956.00	1.29	724882.88	102.2	70 - 120	
72 Ge	241898.16	1.43	224740.89	107.6	70 - 120	
72 Ge	1333153.00	1.07	1271052.30	104.9	70 - 120	
115 In	5980766.00	0.62	5959684.00	100.4	70 - 120	
115 In	2484038.30	0.35	2344790.50	105.9	70 - 120	
115 In	8399774.00	0.63	8142423.50	103.2	70 - 120	
159 Tb	11615170.00	0.71	11331791.00	102.5	70 - 120	
165 Ho	11336486.00	1.20	10919742.00	103.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
1 :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: 66826 SDG: 66826
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 02/03/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:31	%R(1)	True CCV1	Found 12:04	%R(1)	True CCV1	Found 14:11	%R(1)	
Lead (Pb)	100	102.9	103	50	48.24	96.5	50	47.86	95.7	P

(1) Control Limits: Metals 90-110

A.P.P.L. INC.
2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.
ARF No: 66826 SDG: 66826
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 02/03/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:31	%R(1)	True CCV1	Found 15:48	%R(1)	True CCV1	Found 17:21	%R(1)	
Lead (Pb)	100	102.9	103	50	48.26	96.5	50	47.52	95.0	P

(1) Control Limits: Metals 90-110

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66826 SDG: 66826

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 02/03/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:31	%R(1)	True CCV1	Found 18:56	%R(1)	True	Found	%R(1)	
Lead (Pb)	100	102.9	103	50	46.43	92.9				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.: 66826 SDG: 66826

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 02/03/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	11:57		12:11		14:24		16:01		15:07		
Lead (Pb)	.20	U	.20	U	.20	U	.20	U	.20	U	P

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66826 SDG: 66826

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 02/03/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	11:57		17:35		19:09				15:07		
Lead (Pb)	.20	U	.20	U	.20	U			.20	U	P

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Environet, Inc.
ARF No.:	66826	SDG:	66826
ICP ID Number:	Optimus	ICS Source:	Environmental Express

Analysis Date: 02/03/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 12:37	Sol AB 12:44	%R(1)
Lead (Pb)		500	0.9168	490.3	98.1

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

ES060

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66826 SDG: 66826

Analysis Date: 02/03/12 Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	265.845		0.137418		277.500	95.8		

Comments:

02/03/12 17:55 AY53807W16

02/03/12 18:15 AY53807W16-A

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\069SMPL.D\069SMPL.D#
Date Acquired: Feb 3 2012 06:15 pm
Operator: NBS
Sample Name: AY53807W16-A
Misc Info: 120131A-301S
Vial Number: 3301
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	47.99	ug/l	53.32	0.75	1000	
11 B	514.50	ug/l	571.61	0.90	1000	
23 Na	108900.00	ug/l	120987.90	0.60	25000	>Cal
24 Mg	55110.00	ug/l	61227.21	0.42	50000	>Cal
27 Al	2105.00	ug/l	2338.66	0.77	20000	
39 K	8671.00	ug/l	9633.48	0.59	20000	
44 Ca	49130.00	ug/l	54583.43	0.63	50000	
47 Ti	247.70	ug/l	275.19	1.36	1000	
51 V	247.90	ug/l	275.42	0.62	1000	
52 Cr	232.50	ug/l	258.31	1.13	1000	
55 Mn	293.50	ug/l	326.08	1.95	1000	
56 Fe	992.60	ug/l	1102.78	2.17	20000	
59 Co	214.40	ug/l	238.20	1.14	1000	
60 Ni	215.40	ug/l	239.31	1.09	1000	
63 Cu	203.90	ug/l	226.53	0.08	1000	
65 Cu	201.80	ug/l	224.20	1.29	1000	
66 Zn	446.40	ug/l	495.95	1.15	1000	
75 As	230.10	ug/l	255.64	1.25	1000	
78 Se	208.60	ug/l	231.75	0.74	1000	
78 Se	212.70	ug/l	236.31	1.75	1000	
88 Sr	426.10	ug/l	473.40	2.69	1000	
88 Sr	386.90	ug/l	429.85	0.95	1000	
95 Mo	254.90	ug/l	283.19	1.50	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	71.12	ug/l	79.01	0.60	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	44.56	ug/l	49.51	0.69	1000	
118 Sn	265.60	ug/l	295.08	1.08	#######	
118 Sn	262.00	ug/l	291.08	1.07	#######	
118 Sn	284.80	ug/l	316.41	0.69	1000	
121 Sb	258.40	ug/l	287.08	0.51	1000	
137 Ba	247.60	ug/l	275.08	0.62	1000	
205 Tl	227.60	ug/l	252.86	0.44	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	239.50	ug/l	266.08	0.46	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3638986.00	1.74	3064290.80	118.8	70 - 120	
45 Sc	3203128.50	1.15	2924075.00	109.5	70 - 120	
45 Sc	388109.56	0.78	340955.84	113.8	70 - 120	
45 Sc	6405902.00	1.04	5880860.00	108.9	70 - 120	
72 Ge	734789.06	1.44	724882.88	101.4	70 - 120	
72 Ge	242822.31	2.47	224740.89	108.0	70 - 120	
72 Ge	1296355.30	0.29	1271052.30	102.0	70 - 120	
115 In	5851008.00	1.12	5959684.00	98.2	70 - 120	
115 In	2415745.00	1.34	2344790.50	103.0	70 - 120	
115 In	8230601.50	1.06	8142423.50	101.1	70 - 120	
159 Tb	11280778.00	1.38	11331791.00	99.5	70 - 120	
165 Ho	10983795.00	1.50	10919742.00	100.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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

A.P.P.L. INC.

9

ICP SERIAL DILUTION

CLIENT SAMPLE NO.

ES060

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66826 SDG: 66826

Matrix: water

Analysis Date: 02/03/12 Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	%D	Q	M
Lead (Pb)	0.137418		0.179588		NA		

Comments:

02/03/12 17:55 AY53807W16

02/03/12 18:22 AY53807W16-1/5

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\070SMPL.D\070SMPL.D#
Date Acquired: Feb 3 2012 06:22 pm
Operator: NBS
Sample Name: AY53807W16-1/5
Misc Info: 120131A-3015
Vial Number: 3302
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
Sample Type: Sample
Prep Dil Factor: 5.56
Total Dil Factor: 5.56

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	#VALUE!	--------	0	
9 Be	0.00 ug/l	0.00	420.85	1000	
11 B	54.78 ug/l	304.36	1.26	1000	
23 Na	17810.00 ug/l	98952.36	0.40	25000	
24 Mg	6501.00 ug/l	36119.56	1.60	50000	
27 Al	1.21 ug/l	6.72	44.21	20000	
39 K	711.60 ug/l	3953.65	2.08	20000	
44 Ca	4884.00 ug/l	27135.50	1.12	50000	
47 Ti	0.06 ug/l	0.33	129.24	1000	
51 V	3.63 ug/l	20.16	1.48	1000	
52 Cr	0.30 ug/l	1.69	5.45	1000	
55 Mn	12.20 ug/l	67.78	0.98	1000	
56 Fe	8.56 ug/l	47.54	0.33	20000	
59 Co	0.09 ug/l	0.50	3.80	1000	
60 Ni	0.56 ug/l	3.09	6.99	1000	
63 Cu	0.08 ug/l	0.42	12.11	1000	
65 Cu	0.06 ug/l	0.31	24.67	1000	
66 Zn	3.27 ug/l	18.15	1.18	1000	
75 As	0.29 ug/l	1.60	1.71	1000	
78 Se	0.28 ug/l	1.57	6.35	1000	
78 Se	0.39 ug/l	2.16	36.48	1000	
88 Sr	28.35 ug/l	157.51	0.78	1000	
88 Sr	26.61 ug/l	147.85	0.55	1000	
95 Mo	2.95 ug/l	16.40	2.42	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	-0.44 ug/l	-2.43	3.55	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.00 ug/l	0.02	164.99	1000	
118 Sn	0.50 ug/l	2.75	10.65	#######	
118 Sn	0.59 ug/l	3.28	8.32	#######	
118 Sn	0.54 ug/l	3.01	3.27	1000	
121 Sb	0.70 ug/l	3.88	2.86	1000	
137 Ba	2.31 ug/l	12.83	0.91	1000	
205 Tl	0.00 ug/l	0.01	168.84	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	0.03 ug/l	0.18	3.60	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3578152.80	0.99	3064290.80	116.8	70 - 120	
45 Sc	3323961.80	1.00	2924075.00	113.7	70 - 120	
45 Sc	393897.56	0.27	340955.84	115.5	70 - 120	
45 Sc	6247583.00	0.61	5880860.00	106.2	70 - 120	
72 Ge	783998.94	0.86	724882.88	108.2	70 - 120	
72 Ge	254748.59	1.37	224740.89	113.4	70 - 120	
72 Ge	1341561.60	0.89	1271052.30	105.5	70 - 120	
115 In	6329332.00	1.55	5959684.00	106.2	70 - 120	
115 In	2590623.00	0.52	2344790.50	110.5	70 - 120	
115 In	8578436.00	0.15	8142423.50	105.4	70 - 120	
159 Tb	11825383.00	1.50	11331791.00	104.4	70 - 120	
165 Ho	11543507.00	1.38	10919742.00	105.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: **Pass**
ISTD: **Pass**

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\004CAL
Date Acquired: Feb 3 2012 10:57 am
Operator: NBS
Sample Name: Calibration Blank
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 10:54 am
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	3064291.00	A	25520.00	0.83
7	(Li)	187091.80	P	440.50	0.24
9	Be	21.11	P	6.94	32.87
11	B	1146.83	P	86.35	7.53
23	Na	48775.94	P	456.90	0.94
24	Mg	114.45	P	29.88	26.11
27	Al	128.89	P	11.71	9.09
39	K	24356.14	P	678.90	2.79
44	Ca	586.44	P	45.38	7.74
45	Sc	2924075.00	A	17640.00	0.60
45	Sc	340955.91	A	1726.00	0.51
45	Sc	5880860.00	A	23330.00	0.40
47	Ti	7.11	P	4.29	60.27
51	V	220.89	P	26.00	11.77
52	Cr	416.90	P	25.03	6.00
55	Mn	144.45	P	1.54	1.07
56	Fe	3780.09	P	79.51	2.10
59	Co	56.00	P	10.07	17.98
60	Ni	51.56	P	0.77	1.49
63	Cu	926.71	P	4.81	0.52
65	Cu	401.79	P	15.34	3.82
66	Zn	120.45	P	22.80	18.93
72	Ge	724882.88	A	5051.00	0.70
72	Ge	224740.91	A	2217.00	0.99
72	Ge	1271052.00	A	7145.00	0.56
75	As	23.22	P	2.84	12.21
78	Se	7.33	P	2.03	27.64
78	Se	84.89	P	8.04	9.48
88	Sr	91.11	P	8.39	9.21
88	Sr	464.47	P	42.21	9.09
95	Mo	318.90	P	10.71	3.36
106	(Cd)	10.00	P	3.33	33.33
107	Ag	5975.92	P	212.40	3.55
108	(Cd)	7.78	P	3.85	49.49
111	Cd	23.22	P	11.02	47.46
115	In	5959684.00	A	32310.00	0.54
115	In	2344790.00	A	7474.00	0.32
115	In	8142423.00	A	44470.00	0.55
118	Sn	193.34	P	50.33	26.03
118	Sn	86.67	P	13.33	15.38
118	Sn	324.46	P	12.62	3.89
121	Sb	2043.56	P	50.34	2.46
137	Ba	56.67	P	14.53	25.64
159	Tb	11331790.00	A	68730.00	0.61
165	Ho	10919740.00	A	116400.00	1.07
205	Tl	734.49	P	87.59	11.93
206	(Pb)	358.91	P	5.09	1.42
207	(Pb)	282.24	P	31.51	11.16
208	Pb	1390.08	P	31.80	2.29

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\005CALS.D\005CALS.D#
Date Acquired: Feb 3 2012 11:04 am
Operator: NBS
Sample Name: 120203 Standard 1
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:01 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3080687.00	A	19400.00	0.63	0.0000
7 (Li)	188377.91	P	1758.00	0.93	0.0000
9 Be	297.79	P	25.02	8.40	0.0000
11 B	1341.23	P	135.40	10.10	0.0000
23 Na	49397.97	P	577.40	1.17	0.0000
24 Mg	877.84	P	104.00	11.85	0.0000
27 Al	222.23	P	54.30	24.43	0.0000
39 K	24919.48	P	83.23	0.33	0.0000
44 Ca	565.33	P	55.57	9.83	0.0000
45 Sc	2945587.00	A	31130.00	1.06	0.0000
45 Sc	346739.59	A	2843.00	0.82	0.0000
45 Sc	5870275.00	A	13640.00	0.23	0.0000
47 Ti	10.22	P	6.16	60.24	0.0000
51 V	437.79	P	28.61	6.54	0.0000
52 Cr	631.58	P	21.43	3.39	0.0000
55 Mn	272.45	P	20.67	7.59	0.0000
56 Fe	7410.85	P	155.40	2.10	0.0000
59 Co	400.01	P	19.73	4.93	0.0000
60 Ni	134.22	P	5.05	3.76	0.0000
63 Cu	1132.06	P	30.49	2.69	0.0000
65 Cu	491.13	P	6.30	1.28	0.0000
66 Zn	234.23	P	55.72	23.79	0.0000
72 Ge	720104.50	A	4685.00	0.65	0.0000
72 Ge	228893.70	A	2123.00	0.93	0.0000
72 Ge	1281134.00	A	2838.00	0.22	0.0000
75 As	60.67	P	3.71	6.12	0.0000
78 Se	26.44	P	1.17	4.43	0.0000
78 Se	89.78	P	6.62	7.37	0.0000
88 Sr	313.35	P	18.56	5.92	0.0000
88 Sr	2402.51	P	56.71	2.36	0.0000
95 Mo	643.37	P	43.34	6.74	0.0000
106 (Cd)	25.56	P	7.70	30.12	0.0000
107 Ag	4858.78	P	151.70	3.12	0.0000
108 (Cd)	14.44	P	6.94	48.04	0.0000
111 Cd	222.71	P	35.75	16.05	0.0000
115 In	5998605.00	A	34190.00	0.57	0.0000
115 In	2381924.00	A	6219.00	0.26	0.0000
115 In	8203342.00	A	105000.00	1.28	0.0000
118 Sn	567.81	P	62.75	11.05	0.0000
118 Sn	255.57	P	24.57	9.61	0.0000
118 Sn	775.61	P	69.47	8.96	0.0000
121 Sb	2692.58	P	18.37	0.68	0.0000
137 Ba	332.24	P	31.51	9.48	0.0000
159 Tb	11374910.00	A	29700.00	0.26	0.0000
165 Ho	11006810.00	A	106700.00	0.97	0.0000
205 Tl	2363.63	P	153.80	6.51	0.0000
206 (Pb)	882.29	P	65.18	7.39	0.0000
207 (Pb)	775.61	P	32.03	4.13	0.0000
208 Pb	3612.56	P	43.38	1.20	0.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3080686.80	0.63	3064290.80	100.5	70 -	120	
45 Sc	2945587.50	1.06	2924075.00	100.7	70 -	120	
45 Sc	346739.56	0.82	340955.84	101.7	70 -	120	
45 Sc	5870275.00	0.23	5880860.00	99.8	70 -	120	
72 Ge	720104.50	0.65	724882.88	99.3	70 -	120	
72 Ge	228893.66	0.93	224740.89	101.8	70 -	120	
72 Ge	1281133.80	0.22	1271052.30	100.8	70 -	120	
115 In	5998605.50	0.57	5959684.00	100.7	70 -	120	
115 In	2381923.80	0.26	2344790.50	101.6	70 -	120	
115 In	8203342.00	1.28	8142423.50	100.7	70 -	120	
159 Tb	11374913.00	0.26	11331791.00	100.4	70 -	120	
165 Ho	11006813.00	0.97	10919742.00	100.8	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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\12B03k00.B\006CALS.D\006CALS.D#
Date Acquired: Feb 3 2012 11:10 am
Operator: NBS
Sample Name: 120203 Standard 2
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:08 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3358906.00	A	263800.00	7.85	0.0000
7 (Li)	204779.09	P	14560.00	7.11	1.0000
9 Be	2506.96	P	65.58	2.62	1.0000
11 B	2710.37	P	109.10	4.03	1.0000
23 Na	56556.76	P	579.40	1.02	-1.0000
24 Mg	7632.21	P	230.80	3.02	1.0000
27 Al	1245.65	P	78.20	6.28	1.0000
39 K	28692.96	P	472.60	1.65	1.0000
44 Ca	994.84	P	32.90	3.31	-1.0000
45 Sc	2953723.00	A	48920.00	1.66	0.0000
45 Sc	333873.81	A	6239.00	1.87	0.0000
45 Sc	6727760.00	A	424600.00	6.31	0.0000
47 Ti	77.33	P	8.11	10.49	1.0000
51 V	2305.10	P	43.36	1.88	1.0000
52 Cr	2864.76	P	71.02	2.48	1.0000
55 Mn	1733.02	P	31.28	1.80	1.0000
56 Fe	44615.52	P	229.50	0.51	1.0000
59 Co	3616.94	P	86.17	2.38	1.0000
60 Ni	957.38	P	27.36	2.86	1.0000
63 Cu	3346.21	P	68.13	2.04	1.0000
65 Cu	1558.77	P	37.05	2.38	1.0000
66 Zn	656.02	P	21.83	3.33	1.0000
72 Ge	727526.19	A	17220.00	2.37	0.0000
72 Ge	225102.30	A	4017.00	1.78	0.0000
72 Ge	1413858.00	A	86660.00	6.13	0.0000
75 As	391.56	P	1.58	0.40	1.0000
78 Se	201.45	P	5.36	2.66	1.0000
78 Se	118.33	P	2.33	1.97	1.0000
88 Sr	2719.25	P	77.23	2.84	1.0000
88 Sr	18898.62	P	298.10	1.58	1.0000
95 Mo	3617.24	P	123.90	3.43	1.0000
106 (Cd)	165.56	P	11.71	7.07	1.0000
107 Ag	7759.04	P	38.46	0.50	-1.0000
108 (Cd)	143.34	P	24.04	16.77	1.0000
111 Cd	1845.38	P	86.49	4.69	1.0000
115 In	6003035.00	A	107900.00	1.80	0.0000
115 In	2327541.00	A	34740.00	1.49	0.0000
115 In	9334153.00	A	683800.00	7.33	0.0000
118 Sn	3811.76	P	72.62	1.91	1.0000
118 Sn	1675.71	P	71.84	4.29	1.0000
118 Sn	5167.80	P	147.20	2.85	1.0000
121 Sb	8346.11	P	171.80	2.06	1.0000
137 Ba	2803.72	P	78.63	2.80	1.0000
159 Tb	12940590.00	A	1023000.00	7.91	0.0000
165 Ho	12580020.00	A	899800.00	7.15	0.0000
205 Tl	17258.45	P	193.60	1.12	1.0000
206 (Pb)	6257.23	P	160.10	2.56	1.0000
207 (Pb)	5522.45	P	141.50	2.56	1.0000
208 Pb	24658.63	P	293.30	1.19	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3358905.80	7.85	3064290.80	109.6	70 -	120	
45 Sc	2953722.80	1.66	2924075.00	101.0	70 -	120	
45 Sc	333873.84	1.87	340955.84	97.9	70 -	120	
45 Sc	6727760.50	6.31	5880860.00	114.4	70 -	120	
72 Ge	727526.13	2.37	724882.88	100.4	70 -	120	
72 Ge	225102.28	1.78	224740.89	100.2	70 -	120	
72 Ge	1413857.80	6.13	1271052.30	111.2	70 -	120	
115 In	6003035.50	1.80	5959684.00	100.7	70 -	120	
115 In	2327541.50	1.49	2344790.50	99.3	70 -	120	
115 In	9334153.00	7.33	8142423.50	114.6	70 -	120	
159 Tb	12940587.00	7.91	11331791.00	114.2	70 -	120	
165 Ho	12580016.00	7.15	10919742.00	115.2	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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\12B03k00.B\007CALS.D\007CALS.D#
Date Acquired: Feb 3 2012 11:17 am
Operator: NBS
Sample Name: 120203 Standard 3
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:14 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3093215.00	A	34150.00	1.10	0.0000
7 (Li)	188437.70	P	1186.00	0.63	0.9997
9 Be	128817.70	P	774.70	0.60	0.9997
11 B	76555.97	P	616.80	0.81	0.9982
23 Na	449920.31	P	1946.00	0.43	0.9940
24 Mg	379209.19	P	3057.00	0.81	1.0000
27 Al	54266.36	P	419.50	0.77	0.9998
39 K	227615.80	P	1651.00	0.73	0.9979
44 Ca	25042.43	P	295.20	1.18	0.9888
45 Sc	2987698.00	A	20060.00	0.67	0.0000
45 Sc	344508.59	A	2536.00	0.74	0.0000
45 Sc	5904387.00	A	35420.00	0.60	0.0000
47 Ti	3524.47	P	37.82	1.07	0.9985
51 V	104222.00	P	255.00	0.24	1.0000
52 Cr	120198.20	P	514.60	0.43	0.9998
55 Mn	78387.25	P	385.10	0.49	0.9997
56 Fe	2135246.00	A	8277.00	0.39	0.9999
59 Co	175746.00	P	1102.00	0.63	1.0000
60 Ni	45682.89	P	271.70	0.59	0.9999
63 Cu	124709.80	P	398.10	0.32	0.9997
65 Cu	60499.63	P	272.00	0.45	0.9996
66 Zn	24965.59	P	148.70	0.60	0.9947
72 Ge	730359.13	A	7793.00	1.07	0.0000
72 Ge	228007.41	A	4839.00	2.12	0.0000
72 Ge	1283478.00	A	3450.00	0.27	0.0000
75 As	17974.81	P	66.54	0.37	1.0000
78 Se	9896.40	P	164.80	1.67	1.0000
78 Se	1822.12	P	15.82	0.87	1.0000
88 Sr	129166.60	P	1085.00	0.84	0.9999
88 Sr	944507.69	M	45920.00	4.86	0.9998
95 Mo	171071.41	P	1065.00	0.62	0.9999
106 (Cd)	8479.49	P	163.00	1.92	1.0000
107 Ag	226230.00	P	1560.00	0.69	0.7561
108 (Cd)	6399.45	P	44.42	0.69	0.9989
111 Cd	94688.72	P	808.70	0.85	0.9997
115 In	5966424.00	A	9319.00	0.16	0.0000
115 In	2388941.00	A	4423.00	0.19	0.0000
115 In	8292106.00	A	49360.00	0.60	0.0000
118 Sn	179848.80	P	1521.00	0.85	1.0000
118 Sn	79632.16	P	570.40	0.72	1.0000
118 Sn	252409.59	P	1798.00	0.71	1.0000
121 Sb	363379.09	P	3402.00	0.94	0.9998
137 Ba	134453.30	P	1065.00	0.79	0.9999
159 Tb	11444060.00	A	188700.00	1.65	0.0000
165 Ho	11026840.00	A	68110.00	0.62	0.0000
205 Tl	846132.88	P	3918.00	0.46	0.9999
206 (Pb)	296184.31	P	883.30	0.30	0.9999
207 (Pb)	256997.59	P	781.30	0.30	1.0000
208 Pb	1181687.00	P	4079.00	0.35	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3093215.00	1.10	3064290.80	100.9	70 -	120	
45 Sc	2987698.30	0.67	2924075.00	102.2	70 -	120	
45 Sc	344508.63	0.74	340955.84	101.0	70 -	120	
45 Sc	5904387.00	0.60	5880860.00	100.4	70 -	120	
72 Ge	730359.06	1.07	724882.88	100.8	70 -	120	
72 Ge	228007.41	2.12	224740.89	101.5	70 -	120	
72 Ge	1283477.80	0.27	1271052.30	101.0	70 -	120	
115 In	5966423.50	0.16	5959684.00	100.1	70 -	120	
115 In	2388941.30	0.19	2344790.50	101.9	70 -	120	
115 In	8292106.50	0.60	8142423.50	101.8	70 -	120	
159 Tb	11444055.00	1.65	11331791.00	101.0	70 -	120	
165 Ho	11026836.00	0.62	10919742.00	101.0	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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\12B03k00.B\008CALS.D\008CALS.D#
Date Acquired: Feb 3 2012 11:24 am
Operator: NBS
Sample Name: 120203 Standard 4
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:21 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3131097.00	A	31640.00	1.01	0.0000
7 (Li)	190124.59	P	2133.00	1.12	-0.2780
9 Be	262031.70	P	1016.00	0.39	1.0000
11 B	156810.80	P	2782.00	1.77	1.0000
23 Na	915414.69	A	4077.00	0.45	1.0000
24 Mg	759715.19	P	3829.00	0.50	1.0000
27 Al	109796.00	P	1213.00	1.10	1.0000
39 K	433010.09	P	4632.00	1.07	1.0000
44 Ca	49510.72	P	1015.00	2.05	1.0000
45 Sc	2971494.00	A	23920.00	0.80	0.0000
45 Sc	344348.69	A	2362.00	0.69	0.0000
45 Sc	5897219.00	A	95670.00	1.62	0.0000
47 Ti	6917.27	P	23.35	0.34	1.0000
51 V	207315.70	P	820.60	0.40	1.0000
52 Cr	240306.00	P	1199.00	0.50	1.0000
55 Mn	155880.20	P	1191.00	0.76	1.0000
56 Fe	4175561.00	A	32770.00	0.78	1.0000
59 Co	347124.00	P	1246.00	0.36	1.0000
60 Ni	89865.73	P	498.80	0.56	1.0000
63 Cu	244704.91	P	446.10	0.18	1.0000
65 Cu	120267.50	P	314.90	0.26	1.0000
66 Zn	48816.51	P	365.70	0.75	1.0000
72 Ge	728728.81	A	4042.00	0.55	0.0000
72 Ge	226406.70	A	1089.00	0.48	0.0000
72 Ge	1274105.00	A	12600.00	0.99	0.0000
75 As	35705.13	P	31.92	0.09	1.0000
78 Se	19657.34	P	28.13	0.14	1.0000
78 Se	3560.00	P	28.57	0.80	1.0000
88 Sr	256742.50	P	226.80	0.09	1.0000
88 Sr	1952938.00	A	23260.00	1.19	1.0000
95 Mo	336688.69	P	5416.00	1.61	1.0000
106 (Cd)	16763.83	P	180.40	1.08	1.0000
107 Ag	442722.09	P	4532.00	1.02	0.9999
108 (Cd)	12566.05	P	121.20	0.96	1.0000
111 Cd	187920.91	P	2304.00	1.23	1.0000
115 In	5952166.00	A	32530.00	0.55	0.0000
115 In	2370033.00	A	18520.00	0.78	0.0000
115 In	8162602.00	A	27560.00	0.34	0.0000
118 Sn	359137.50	P	2474.00	0.69	1.0000
118 Sn	158714.20	P	243.00	0.15	1.0000
118 Sn	502030.69	P	4217.00	0.84	1.0000
121 Sb	710791.38	P	4565.00	0.64	1.0000
137 Ba	269740.41	P	3812.00	1.41	1.0000
159 Tb	11371240.00	A	78870.00	0.69	0.0000
165 Ho	10946020.00	A	53510.00	0.49	0.0000
205 Tl	1903272.00	A	16370.00	0.86	1.0000
206 (Pb)	588904.19	P	3523.00	0.60	1.0000
207 (Pb)	510673.81	P	3715.00	0.73	1.0000
208 Pb	2478192.00	A	10480.00	0.42	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3131097.50	1.01	3064290.80	102.2	70 -	120	
45 Sc	2971494.00	0.80	2924075.00	101.6	70 -	120	
45 Sc	344348.75	0.69	340955.84	101.0	70 -	120	
45 Sc	5897218.50	1.62	5880860.00	100.3	70 -	120	
72 Ge	728728.81	0.55	724882.88	100.5	70 -	120	
72 Ge	226406.75	0.48	224740.89	100.7	70 -	120	
72 Ge	1274105.50	0.99	1271052.30	100.2	70 -	120	
115 In	5952166.00	0.55	5959684.00	99.9	70 -	120	
115 In	2370033.00	0.78	2344790.50	101.1	70 -	120	
115 In	8162602.00	0.34	8142423.50	100.2	70 -	120	
159 Tb	11371236.00	0.69	11331791.00	100.3	70 -	120	
165 Ho	10946025.00	0.49	10919742.00	100.2	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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\12B03k00.B\009_QCS.D\009_QCS.D#
Date Acquired: Feb 3 2012 11:31 am
Operator: NBS
Sample Name: ICV 120203
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	104.00	ug/l	1.29	100.00	90 - 110	
11 B	110.10	ug/l	1.58	100.00	90 - 110	Fail
23 Na	2491.00	ug/l	1.96	2500.00	90 - 110	
24 Mg	2509.00	ug/l	1.55	2500.00	90 - 110	
27 Al	2588.00	ug/l	1.27	2500.00	90 - 110	
39 K	2468.00	ug/l	2.29	2500.00	90 - 110	
44 Ca	2529.00	ug/l	2.92	2500.00	90 - 110	
47 Ti	101.30	ug/l	3.47	100.00	90 - 110	
51 V	100.50	ug/l	1.72	100.00	90 - 110	
52 Cr	104.60	ug/l	2.45	100.00	90 - 110	
55 Mn	103.00	ug/l	2.91	100.00	90 - 110	
56 Fe	2535.00	ug/l	2.06	2500.00	90 - 110	
59 Co	101.80	ug/l	1.68	100.00	90 - 110	
60 Ni	100.90	ug/l	2.06	100.00	90 - 110	
63 Cu	99.79	ug/l	2.46	100.00	90 - 110	
65 Cu	99.41	ug/l	2.15	100.00	90 - 110	
66 Zn	101.10	ug/l	0.71	100.00	90 - 110	
75 As	97.30	ug/l	0.49	100.00	90 - 110	
78 Se	101.60	ug/l	0.50	100.00	90 - 110	
78 Se	101.70	ug/l	1.23	100.00	90 - 110	
88 Sr	98.61	ug/l	1.42	100.00	90 - 110	
88 Sr	100.10	ug/l	1.35	100.00	90 - 110	
95 Mo	98.28	ug/l	1.04	100.00	90 - 110	
106 (Cd)	--------	ug/l	--------	100.00	90 - 110	
107 Ag	48.10	ug/l	1.11	50.00	90 - 110	
108 (Cd)	--------	ug/l	--------	100.00	90 - 110	
111 Cd	100.30	ug/l	1.16	100.00	90 - 110	
118 Sn	50.72	ug/l	21.81	50.00	90 - 110	
118 Sn	47.76	ug/l	7.21	50.00	90 - 110	
118 Sn	44.73	ug/l	13.90	50.00	90 - 110	Fail
121 Sb	107.10	ug/l	1.03	100.00	90 - 110	
137 Ba	98.29	ug/l	1.32	100.00	90 - 110	
205 Tl	104.10	ug/l	0.68	100.00	90 - 110	
206 (Pb)	--------	ug/l	--------	100.00	90 - 110	
207 (Pb)	--------	ug/l	--------	100.00	90 - 110	
208 Pb	102.90	ug/l	0.19	100.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3203911.80	0.40	3064290.80	104.6	70 - 120	
45 Sc	2953824.00	0.44	2924075.00	101.0	70 - 120	
45 Sc	342280.81	1.71	340955.84	100.4	70 - 120	
45 Sc	5814651.50	0.81	5880860.00	98.9	70 - 120	
72 Ge	727124.56	1.39	724882.88	100.3	70 - 120	
72 Ge	227168.55	0.82	224740.89	101.1	70 - 120	
72 Ge	1263911.50	0.37	1271052.30	99.4	70 - 120	
115 In	5922005.50	0.46	5959684.00	99.4	70 - 120	
115 In	2357402.30	0.40	2344790.50	100.5	70 - 120	
115 In	8146213.50	1.38	8142423.50	100.0	70 - 120	
159 Tb	11278538.00	0.48	11331791.00	99.5	70 - 120	
165 Ho	10819910.00	0.63	10919742.00	99.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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\12B03k00.B\013_CCB.D\013_CCB.D#
Date Acquired: Feb 3 2012 11:57 am
Operator: NBS
Sample Name: ICB 120203
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#######	
9 Be	0.00 ug/l	149.58	0.12	
11 B	2.30 ug/l	0.97	15.00	
23 Na	-4.96 ug/l	29.51	77.10	
24 Mg	0.00 ug/l	957.64	7.50	
27 Al	-0.34 ug/l	125.41	3.96	
39 K	6.06 ug/l	84.27	19.20	
44 Ca	-2.11 ug/l	324.13	90.00	
47 Ti	-0.08 ug/l	39.01	0.78	
51 V	-0.01 ug/l	176.14	0.21	
52 Cr	0.02 ug/l	50.42	0.12	
55 Mn	-0.01 ug/l	285.80	0.18	
56 Fe	-0.04 ug/l	54.18	40.80	
59 Co	0.00 ug/l	68.81	0.09	
60 Ni	0.00 ug/l	91.09	0.48	
63 Cu	-0.03 ug/l	7.85	0.39	
65 Cu	-0.03 ug/l	44.75	0.39	
66 Zn	0.04 ug/l	31.86	6.90	
75 As	0.01 ug/l	118.40	0.27	
78 Se	0.01 ug/l	141.37	0.30	
78 Se	0.18 ug/l	54.17	0.30	
88 Sr	-0.01 ug/l	28.11	0.03	
88 Sr	0.00 ug/l	417.48	0.03	
95 Mo	-0.03 ug/l	31.21	0.21	
106 (Cd)	-------- ug/l	--------	#######	
107 Ag	-0.56 ug/l	1.00	0.09	
108 (Cd)	-------- ug/l	--------	#######	
111 Cd	0.00 ug/l	150.40	0.06	
118 Sn	0.04 ug/l	28.95	#######	
118 Sn	0.06 ug/l	14.60	#######	
118 Sn	0.04 ug/l	41.47	0.30	
121 Sb	0.08 ug/l	7.51	0.03	Fail
137 Ba	0.00 ug/l	281.98	0.12	
205 Tl	-0.01 ug/l	5.97	0.03	
206 (Pb)	-------- ug/l	--------	#######	
207 (Pb)	-------- ug/l	--------	#######	
208 Pb	-0.01 ug/l	12.67	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3174444.30	1.00	3064290.80	103.6	70 - 120	
45 Sc	3025597.80	0.60	2924075.00	103.5	70 - 120	
45 Sc	335901.19	0.65	340955.84	98.5	70 - 120	
45 Sc	5893620.00	1.28	5880860.00	100.2	70 - 120	
72 Ge	738302.06	0.66	724882.88	101.9	70 - 120	
72 Ge	227680.39	2.84	224740.89	101.3	70 - 120	
72 Ge	1281517.80	1.07	1271052.30	100.8	70 - 120	
115 In	6016214.00	0.35	5959684.00	100.9	70 - 120	
115 In	2325487.30	0.49	2344790.50	99.2	70 - 120	
115 In	8196816.50	0.59	8142423.50	100.7	70 - 120	
159 Tb	11366884.00	0.13	11331791.00	100.3	70 - 120	
165 Ho	10914490.00	0.55	10919742.00	100.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\014_CCV.D\014_CCV.D#
Date Acquired: Feb 3 2012 12:04 pm
Operator: NBS
Sample Name: CCV 120203
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	50.31	ug/l	0.92	50.00	90 - 110	
11 B	51.52	ug/l	1.51	50.00	90 - 110	
23 Na	1166.00	ug/l	1.21	1250.00	90 - 110	
24 Mg	2497.00	ug/l	0.98	2500.00	90 - 110	
27 Al	1002.00	ug/l	1.41	1000.00	90 - 110	
39 K	992.00	ug/l	1.90	1000.00	90 - 110	
44 Ca	2478.00	ug/l	1.51	2500.00	90 - 110	
47 Ti	50.03	ug/l	2.10	50.00	90 - 110	
51 V	49.51	ug/l	1.34	50.00	90 - 110	
52 Cr	49.28	ug/l	0.86	50.00	90 - 110	
55 Mn	49.33	ug/l	2.00	50.00	90 - 110	
56 Fe	998.20	ug/l	0.80	1000.00	90 - 110	
59 Co	49.21	ug/l	1.32	50.00	90 - 110	
60 Ni	49.45	ug/l	1.47	50.00	90 - 110	
63 Cu	49.31	ug/l	1.13	50.00	90 - 110	
65 Cu	48.95	ug/l	1.45	50.00	90 - 110	
66 Zn	50.92	ug/l	1.99	50.00	90 - 110	
75 As	49.70	ug/l	0.25	50.00	90 - 110	
78 Se	49.70	ug/l	0.30	50.00	90 - 110	
78 Se	49.99	ug/l	2.01	50.00	90 - 110	
88 Sr	50.35	ug/l	0.77	50.00	90 - 110	
88 Sr	49.59	ug/l	4.12	50.00	90 - 110	
95 Mo	50.48	ug/l	0.55	50.00	90 - 110	
106 (Cd)	--------	ug/l	--------	50.00	90 - 110	
107 Ag	24.78	ug/l	0.62	25.00	90 - 110	
108 (Cd)	--------	ug/l	--------	50.00	90 - 110	
111 Cd	49.93	ug/l	1.04	50.00	90 - 110	
118 Sn	49.31	ug/l	0.65	---	##### - #####	
118 Sn	49.98	ug/l	0.65	---	##### - #####	
118 Sn	50.11	ug/l	0.07	50.00	90 - 110	
121 Sb	51.03	ug/l	0.55	50.00	90 - 110	
137 Ba	50.61	ug/l	0.48	50.00	90 - 110	
205 Tl	45.63	ug/l	1.29	50.00	90 - 110	
206 (Pb)	--------	ug/l	--------	50.00	90 - 110	
207 (Pb)	--------	ug/l	--------	50.00	90 - 110	
208 Pb	48.24	ug/l	0.95	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3179316.50	0.33	3064290.80	103.8	70 - 120	
45 Sc	3042338.00	0.42	2924075.00	104.0	70 - 120	
45 Sc	355573.00	1.24	340955.84	104.3	70 - 120	
45 Sc	5963351.50	0.23	5880860.00	101.4	70 - 120	
72 Ge	735712.00	0.48	724882.88	101.5	70 - 120	
72 Ge	235244.28	0.34	224740.89	104.7	70 - 120	
72 Ge	1292922.90	0.23	1271052.30	101.7	70 - 120	
115 In	6016920.50	0.99	5959684.00	101.0	70 - 120	
115 In	2410921.80	0.48	2344790.50	102.8	70 - 120	
115 In	8229678.50	0.29	8142423.50	101.1	70 - 120	
159 Tb	11465195.00	0.94	11331791.00	101.2	70 - 120	
165 Ho	11070671.00	0.62	10919742.00	101.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\015_CCB.D\015_CCB.D#
Date Acquired: Feb 3 2012 12:11 pm
Operator: NBS
Sample Name: CCB 120203
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	########	
9 Be	0.00 ug/l	56.54	0.12	
11 B	3.68 ug/l	2.77	15.00	
23 Na	-12.88 ug/l	21.91	77.10	
24 Mg	0.10 ug/l	133.46	7.50	
27 Al	-0.22 ug/l	175.66	3.96	
39 K	2.31 ug/l	253.99	19.20	
44 Ca	-8.88 ug/l	19.19	90.00	
47 Ti	-0.07 ug/l	15.42	0.78	
51 V	-0.01 ug/l	115.75	0.21	
52 Cr	0.00 ug/l	693.40	0.12	
55 Mn	-0.01 ug/l	69.18	0.18	
56 Fe	0.21 ug/l	24.12	40.80	
59 Co	0.00 ug/l	115.41	0.09	
60 Ni	-0.01 ug/l	28.13	0.48	
63 Cu	-0.04 ug/l	15.38	0.39	
65 Cu	-0.05 ug/l	51.56	0.39	
66 Zn	0.06 ug/l	71.98	6.90	
75 As	0.02 ug/l	57.34	0.27	
78 Se	0.04 ug/l	60.35	0.30	
78 Se	-0.09 ug/l	387.37	0.30	
88 Sr	0.00 ug/l	556.64	0.03	
88 Sr	0.00 ug/l	48.49	0.03	
95 Mo	0.08 ug/l	20.39	0.21	
106 (Cd)	-------- ug/l	--------	########	
107 Ag	-0.58 ug/l	0.57	0.09	
108 (Cd)	-------- ug/l	--------	########	
111 Cd	0.00 ug/l	112.13	0.06	
118 Sn	0.16 ug/l	4.30	########	
118 Sn	0.20 ug/l	7.95	########	
118 Sn	0.17 ug/l	4.58	0.30	
121 Sb	0.76 ug/l	3.57	0.03	Fail
137 Ba	0.01 ug/l	80.21	0.12	
205 Tl	0.00 ug/l	126.99	0.03	
206 (Pb)	-------- ug/l	--------	########	
207 (Pb)	-------- ug/l	--------	########	
208 Pb	-0.01 ug/l	33.07	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3197063.80	0.41	3064290.80	104.3	70 - 120	
45 Sc	3080161.50	1.48	2924075.00	105.3	70 - 120	
45 Sc	355742.50	2.72	340955.84	104.3	70 - 120	
45 Sc	5937170.50	1.29	5880860.00	101.0	70 - 120	
72 Ge	749737.81	0.26	724882.88	103.4	70 - 120	
72 Ge	236984.77	2.08	224740.89	105.4	70 - 120	
72 Ge	1293085.10	0.70	1271052.30	101.7	70 - 120	
115 In	6128064.00	0.87	5959684.00	102.8	70 - 120	
115 In	2424697.50	2.04	2344790.50	103.4	70 - 120	
115 In	8260376.00	0.41	8142423.50	101.4	70 - 120	
159 Tb	11350200.00	0.30	11331791.00	100.2	70 - 120	
165 Ho	11000716.00	0.48	10919742.00	100.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\016SMPL.D\016SMPL.D#
Date Acquired: Feb 3 2012 12:17 pm
Operator: NBS
Sample Name: LDR 1000ppb 120203
Misc Info:
Vial Number: 2201
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	1019.00	ug/l	1019.00	0.68	1000	>Cal
11 B	1121.00	ug/l	1121.00	0.63	1000	>Cal
23 Na	24040.00	ug/l	24040.00	1.03	25000	
24 Mg	51670.00	ug/l	51670.00	0.20	50000	>Cal
27 Al	22180.00	ug/l	22180.00	0.96	20000	>Cal
39 K	19990.00	ug/l	19990.00	0.87	20000	
44 Ca	50390.00	ug/l	50390.00	0.09	50000	>Cal
47 Ti	991.50	ug/l	991.50	0.75	1000	
51 V	1036.00	ug/l	1036.00	1.10	1000	>Cal
52 Cr	1001.00	ug/l	1001.00	0.57	1000	>Cal
55 Mn	1027.00	ug/l	1027.00	0.76	1000	>Cal
56 Fe	19270.00	ug/l	19270.00	0.67	20000	
59 Co	986.70	ug/l	986.70	0.35	1000	
60 Ni	940.20	ug/l	940.20	0.71	1000	
63 Cu	974.80	ug/l	974.80	1.33	1000	
65 Cu	979.00	ug/l	979.00	0.64	1000	
66 Zn	972.40	ug/l	972.40	1.06	1000	
75 As	1019.00	ug/l	1019.00	0.56	1000	>Cal
78 Se	980.00	ug/l	980.00	1.08	1000	
78 Se	991.70	ug/l	991.70	0.76	1000	
88 Sr	1091.00	ug/l	1091.00	0.62	1000	>Cal
88 Sr	1022.00	ug/l	1022.00	0.64	1000	>Cal
95 Mo	1085.00	ug/l	1085.00	0.78	1000	>Cal
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	498.60	ug/l	498.60	0.36	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	1058.00	ug/l	1058.00	0.98	1000	>Cal
118 Sn	1066.00	ug/l	1066.00	2.07	#######	
118 Sn	1086.00	ug/l	1086.00	0.85	#######	
118 Sn	1073.00	ug/l	1073.00	1.08	1000	>Cal
121 Sb	959.80	ug/l	959.80	1.78	1000	
137 Ba	1126.00	ug/l	1126.00	0.21	1000	>Cal
205 Tl	979.70	ug/l	979.70	0.84	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	1001.00	ug/l	1001.00	0.68	1000	>Cal

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3206767.30	1.64	3064290.80	104.6	70 - 120	
45 Sc	3017568.00	0.90	2924075.00	103.2	70 - 120	
45 Sc	352325.13	0.53	340955.84	103.3	70 - 120	
45 Sc	6003517.00	0.99	5880860.00	102.1	70 - 120	
72 Ge	724132.94	1.53	724882.88	99.9	70 - 120	
72 Ge	230734.88	1.37	224740.89	102.7	70 - 120	
72 Ge	1280039.10	0.10	1271052.30	100.7	70 - 120	
115 In	5787562.00	0.10	5959684.00	97.1	70 - 120	
115 In	2309543.50	0.28	2344790.50	98.5	70 - 120	
115 In	7945501.00	0.29	8142423.50	97.6	70 - 120	
159 Tb	11414768.00	0.46	11331791.00	100.7	70 - 120	
165 Ho	11078988.00	0.10	10919742.00	101.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

16 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\017SMPL.D\017SMPL.D#
Date Acquired: Feb 3 2012 12:24 pm
Operator: NBS
Sample Name: LDR 500ppb 120203
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	535.60	ug/l	535.60	0.64	1000	
11 B	608.10	ug/l	608.10	0.69	1000	
23 Na	11990.00	ug/l	11990.00	3.59	25000	
24 Mg	25620.00	ug/l	25620.00	4.70	50000	
27 Al	10060.00	ug/l	10060.00	4.57	20000	
39 K	10140.00	ug/l	10140.00	4.51	20000	
44 Ca	25050.00	ug/l	25050.00	4.38	50000	
47 Ti	490.00	ug/l	490.00	4.42	1000	
51 V	515.30	ug/l	515.30	4.13	1000	
52 Cr	509.20	ug/l	509.20	4.96	1000	
55 Mn	485.80	ug/l	485.80	5.12	1000	
56 Fe	9605.00	ug/l	9605.00	5.27	20000	
59 Co	501.00	ug/l	501.00	5.66	1000	
60 Ni	471.10	ug/l	471.10	4.62	1000	
63 Cu	498.10	ug/l	498.10	5.29	1000	
65 Cu	469.60	ug/l	469.60	4.94	1000	
66 Zn	485.10	ug/l	485.10	5.03	1000	
75 As	499.50	ug/l	499.50	4.36	1000	
78 Se	491.40	ug/l	491.40	0.76	1000	
78 Se	493.30	ug/l	493.30	4.07	1000	
88 Sr	536.10	ug/l	536.10	4.14	1000	
88 Sr	502.30	ug/l	502.30	1.11	1000	
95 Mo	548.20	ug/l	548.20	0.87	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	258.30	ug/l	258.30	2.05	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	497.60	ug/l	497.60	1.07	1000	
118 Sn	532.70	ug/l	532.70	1.03	#######	
118 Sn	495.90	ug/l	495.90	4.57	#######	
118 Sn	543.90	ug/l	543.90	1.12	1000	
121 Sb	497.90	ug/l	497.90	0.78	1000	
137 Ba	556.40	ug/l	556.40	1.45	1000	
205 Tl	490.40	ug/l	490.40	0.58	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	514.20	ug/l	514.20	0.80	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3298150.50	1.12	3064290.80	107.6	70 - 120	
45 Sc	3066701.00	0.43	2924075.00	104.9	70 - 120	
45 Sc	358947.72	4.75	340955.84	105.3	70 - 120	
45 Sc	6004302.50	0.53	5880860.00	102.1	70 - 120	
72 Ge	745198.81	0.99	724882.88	102.8	70 - 120	
72 Ge	233425.55	2.53	224740.89	103.9	70 - 120	
72 Ge	1282284.30	1.37	1271052.30	100.9	70 - 120	
115 In	5933473.50	0.87	5959684.00	99.6	70 - 120	
115 In	2386825.80	4.20	2344790.50	101.8	70 - 120	
115 In	8081734.50	0.72	8142423.50	99.3	70 - 120	
159 Tb	11354081.00	0.66	11331791.00	100.2	70 - 120	
165 Ho	10975551.00	0.28	10919742.00	100.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\019SMPL.D\019SMPL.D#
Date Acquired: Feb 3 2012 12:37 pm
Operator: NBS
Sample Name: ICSA 120203
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	0.22	ug/l	0.22	8.95	1000	
11 B	30.19	ug/l	30.19	5.35	1000	
23 Na	93880.00	ug/l	93880.00	2.93	25000	>Cal
24 Mg	101400.00	ug/l	101400.00	2.88	50000	>Cal
27 Al	109500.00	ug/l	109500.00	3.81	20000	>Cal
39 K	98000.00	ug/l	98000.00	3.03	20000	>Cal
44 Ca	109300.00	ug/l	109300.00	2.68	50000	>Cal
47 Ti	2004.00	ug/l	2004.00	3.05	1000	>Cal
51 V	0.64	ug/l	0.64	3.93	1000	
52 Cr	1.58	ug/l	1.58	2.25	1000	
55 Mn	5.92	ug/l	5.92	3.48	1000	
56 Fe	93790.00	ug/l	93790.00	1.90	20000	>Cal
59 Co	1.66	ug/l	1.66	3.37	1000	
60 Ni	2.13	ug/l	2.13	2.76	1000	
63 Cu	1.22	ug/l	1.22	3.01	1000	
65 Cu	1.27	ug/l	1.27	6.70	1000	
66 Zn	2.92	ug/l	2.92	3.01	1000	
75 As	0.76	ug/l	0.76	3.35	1000	
78 Se	0.50	ug/l	0.50	1.50	1000	
78 Se	0.96	ug/l	0.96	38.84	1000	
88 Sr	1.41	ug/l	1.41	1.20	1000	
88 Sr	1.29	ug/l	1.29	3.64	1000	
95 Mo	2053.00	ug/l	2053.00	4.53	1000	>Cal
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	-0.22	ug/l	-0.22	3.94	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.66	ug/l	0.66	17.69	1000	
118 Sn	2.61	ug/l	2.61	3.02	#######	
118 Sn	2.73	ug/l	2.73	3.92	#######	
118 Sn	2.70	ug/l	2.70	2.83	1000	
121 Sb	7.52	ug/l	7.52	4.31	1000	
137 Ba	2.93	ug/l	2.93	5.70	1000	
205 Tl	0.50	ug/l	0.50	4.90	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	0.92	ug/l	0.92	5.74	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3394564.30	1.60	3064290.80	110.8	70 - 120	
45 Sc	3061194.30	2.27	2924075.00	104.7	70 - 120	
45 Sc	360058.47	2.30	340955.84	105.6	70 - 120	
45 Sc	6157588.50	3.65	5880860.00	104.7	70 - 120	
72 Ge	739097.06	2.02	724862.88	102.0	70 - 120	
72 Ge	240600.78	1.79	224740.89	107.1	70 - 120	
72 Ge	1367647.60	1.19	1271052.30	107.6	70 - 120	
115 In	5613512.50	2.93	5959684.00	94.2	70 - 120	
115 In	2260911.00	0.78	2344790.50	96.4	70 - 120	
115 In	7955972.50	3.02	8142423.50	97.7	70 - 120	
159 Tb	11363893.00	3.87	11331791.00	100.3	70 - 120	
165 Ho	10955811.00	3.01	10919742.00	100.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

8 :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-AB QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\020ICSB.D\020ICSB.D#
Date Acquired: Feb 3 2012 12:44 pm
Acq. Method: 62A0203A.M
Operator: NBS
Sample Name: ICSAB 120203
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal. Update: Feb 03 2012 11:28 am
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	246.00	0.83	250	98.4	80 - 120	
11 B	45	3	21.68	0.60	---		-	
23 Na	45	2	96330.00	1.77	---		-	
24 Mg	45	2	104500.00	2.24	---		-	
27 Al	45	2	113000.00	1.96	---		-	
39 K	45	2	101300.00	2.09	---		-	
44 Ca	45	2	112200.00	1.89	---		-	
47 Ti	45	2	2049.00	1.64	2000	102.5	80 - 120	
51 V	45	2	243.20	1.71	250	97.3	80 - 120	
52 Cr	45	2	243.20	1.86	250	97.3	80 - 120	
55 Mn	45	2	251.00	1.72	250	100.4	80 - 120	
56 Fe	45	2	95990.00	2.66	---		-	
59 Co	45	2	227.50	2.17	250	91.0	80 - 120	
60 Ni	45	2	446.10	1.32	500	89.2	80 - 120	
63 Cu	45	2	218.20	1.83	250	87.3	80 - 120	
65 Cu	45	2	217.60	1.92	250	87.0	80 - 120	
66 Zn	115	2	560.60	0.85	500	112.1	80 - 120	
75 As	115	2	242.70	0.77	250	97.1	80 - 120	
78 Se	115	1	248.10	0.32	250	99.2	80 - 120	
78 Se	115	2	248.40	1.09	250	99.4	80 - 120	
88 Sr	115	2	1.57	0.99	---		-	
88 Sr	115	3	1.45	2.04	---		-	
95 Mo	115	3	2376.00	0.46	2000	118.8	80 - 120	
106 (Cd)	---	3	----------	-------	---		-	
107 Ag	115	3	523.80	4.28	500	104.8	80 - 120	
108 (Cd)	---	3	----------	-------	---		-	
111 Cd	115	3	476.80	0.26	500	95.4	80 - 120	
118 Sn	115	1	2.63	2.20	---		-	
118 Sn	115	2	2.68	5.10	---		-	
118 Sn	115	3	2.69	1.50	---		-	
121 Sb	115	3	279.00	1.14	250	111.6	80 - 120	
137 Ba	115	3	252.60	0.25	250	101.0	80 - 120	
205 Tl	159	3	240.90	0.56	250	96.4	80 - 120	
206 (Pb)	---	3	----------	-------	---		-	
207 (Pb)	---	3	----------	-------	---		-	
208 Pb	159	3	490.30	0.23	500	98.1	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	3375711	0.68	3064291	110.2	70 - 120	
45 Sc	1	3033774	1.18	2924075	103.8	70 - 120	
45 Sc	2	354389	1.59	340956	103.9	70 - 120	
45 Sc	3	6086659	0.64	5880860	103.5	70 - 120	
72 Ge	1	738629	0.69	724883	101.9	70 - 120	
72 Ge	2	237390	0.33	224741	105.6	70 - 120	
72 Ge	3	1336868	0.32	1271052	105.2	70 - 120	
115 In	1	5561159	0.39	5959684	93.3	70 - 120	
115 In	2	2265755	0.99	2344791	96.6	70 - 120	
115 In	3	7809600	0.08	8142424	95.9	70 - 120	
159 Tb	3	11070003	0.27	11331791	97.7	70 - 120	
165 Ho	3	10729733	0.58	10919742	98.3	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2_hmi.u
Tune File# 2 c:\icpchem\1\7500\he_hmi.u
Tune File# 3 c:\icpchem\1\7500\ng_hmi.u

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\033_CCV.D\033_CCV.D#
Date Acquired: Feb 3 2012 02:11 pm
Operator: NBS
Sample Name: CCV 120203
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	50.44	ug/l	2.69	50.00	90 -	110	
11 B	53.09	ug/l	2.24	50.00	90 -	110	
23 Na	1171.00	ug/l	1.62	1250.00	90 -	110	
24 Mg	2538.00	ug/l	2.01	2500.00	90 -	110	
27 Al	1038.00	ug/l	2.30	1000.00	90 -	110	
39 K	1013.00	ug/l	2.16	1000.00	90 -	110	
44 Ca	2552.00	ug/l	4.17	2500.00	90 -	110	
47 Ti	49.61	ug/l	2.04	50.00	90 -	110	
51 V	48.38	ug/l	1.93	50.00	90 -	110	
52 Cr	48.08	ug/l	1.68	50.00	90 -	110	
55 Mn	49.33	ug/l	1.68	50.00	90 -	110	
56 Fe	994.80	ug/l	2.05	1000.00	90 -	110	
59 Co	47.74	ug/l	2.62	50.00	90 -	110	
60 Ni	47.88	ug/l	2.51	50.00	90 -	110	
63 Cu	47.42	ug/l	2.47	50.00	90 -	110	
65 Cu	47.44	ug/l	2.26	50.00	90 -	110	
66 Zn	49.50	ug/l	1.19	50.00	90 -	110	
75 As	48.79	ug/l	0.88	50.00	90 -	110	
78 Se	53.16	ug/l	0.28	50.00	90 -	110	
78 Se	50.05	ug/l	1.57	50.00	90 -	110	
88 Sr	50.51	ug/l	0.98	50.00	90 -	110	
88 Sr	51.09	ug/l	2.25	50.00	90 -	110	
95 Mo	49.37	ug/l	2.71	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	24.33	ug/l	2.26	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	49.18	ug/l	2.09	50.00	90 -	110	
118 Sn	53.27	ug/l	0.97	---	##### -	#####	
118 Sn	49.45	ug/l	1.05	---	##### -	#####	
118 Sn	49.98	ug/l	2.25	50.00	90 -	110	
121 Sb	50.71	ug/l	2.30	50.00	90 -	110	
137 Ba	49.99	ug/l	3.23	50.00	90 -	110	
205 Tl	45.40	ug/l	2.28	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	47.86	ug/l	2.34	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3414771.00	1.19	3064290.80	111.4	70 -	120	
45 Sc	3079724.50	1.68	2924075.00	105.3	70 -	120	
45 Sc	389623.16	1.77	340955.84	114.3	70 -	120	
45 Sc	6331228.00	2.10	5880860.00	107.7	70 -	120	
72 Ge	755774.38	2.46	724882.88	104.3	70 -	120	
72 Ge	252864.75	0.76	224740.89	112.5	70 -	120	
72 Ge	1344485.80	1.44	1271052.30	105.8	70 -	120	
115 In	6036502.50	0.51	5959684.00	101.3	70 -	120	
115 In	2619172.80	1.00	2344790.50	111.7	70 -	120	
115 In	8782302.00	2.22	8142423.50	107.9	70 -	120	
159 Tb	12265605.00	1.80	11331791.00	108.2	70 -	120	
165 Ho	11957105.00	2.14	10919742.00	109.5	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12B03K00.B\035_CCB.D\035_CCB.D#
Date Acquired: Feb 3 2012 02:24 pm
Operator: NBS
Sample Name: CCB 120203
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#######	
9 Be	0.00 ug/l	94.72	0.12	
11 B	-3.43 ug/l	3.01	15.00	
23 Na	-41.23 ug/l	1.74	77.10	
24 Mg	-0.13 ug/l	139.65	7.50	
27 Al	-0.90 ug/l	39.61	3.96	
39 K	-8.19 ug/l	19.87	19.20	
44 Ca	-15.62 ug/l	49.23	90.00	
47 Ti	-0.08 ug/l	29.83	0.78	
51 V	-0.08 ug/l	5.41	0.21	
52 Cr	-0.11 ug/l	2.65	0.12	
55 Mn	-0.01 ug/l	36.36	0.18	
56 Fe	-0.68 ug/l	6.07	40.80	
59 Co	-0.01 ug/l	21.10	0.09	
60 Ni	-0.03 ug/l	10.76	0.48	
63 Cu	-0.16 ug/l	3.06	0.39	
65 Cu	-0.14 ug/l	3.75	0.39	
66 Zn	-0.03 ug/l	25.69	6.90	
75 As	-0.03 ug/l	17.25	0.27	
78 Se	0.01 ug/l	102.80	0.30	
78 Se	-0.10 ug/l	106.16	0.30	
88 Sr	-0.01 ug/l	60.17	0.03	
88 Sr	0.00 ug/l	476.59	0.03	
95 Mo	-0.03 ug/l	26.39	0.21	
106 (Cd)	-------- ug/l	--------	#######	
107 Ag	-0.66 ug/l	0.10	0.09	
108 (Cd)	-------- ug/l	--------	#######	
111 Cd	0.00 ug/l	95.76	0.06	
118 Sn	-0.02 ug/l	21.75	#######	
118 Sn	-0.03 ug/l	20.13	#######	
118 Sn	-0.03 ug/l	15.56	0.30	
121 Sb	-0.15 ug/l	1.58	0.03	
137 Ba	-0.01 ug/l	32.08	0.12	
205 Tl	-0.02 ug/l	5.19	0.03	
206 (Pb)	-------- ug/l	--------	#######	
207 (Pb)	-------- ug/l	--------	#######	
208 Pb	-0.02 ug/l	18.56	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4009943.80	1.02	3064290.80	130.9	70 - 120	IS Fail
45 Sc	3414053.50	0.29	2924075.00	116.8	70 - 120	
45 Sc	412735.78	0.16	340955.84	121.1	70 - 120	IS Fail
45 Sc	6741643.50	0.55	5880860.00	114.6	70 - 120	
72 Ge	834230.19	0.33	724882.88	115.1	70 - 120	
72 Ge	264593.19	1.03	224740.89	117.7	70 - 120	
72 Ge	1430327.60	0.65	1271052.30	112.5	70 - 120	
115 In	6630720.50	0.73	5959684.00	111.3	70 - 120	
115 In	2728333.80	0.07	2344790.50	116.4	70 - 120	
115 In	9158250.00	0.62	8142423.50	112.5	70 - 120	
159 Tb	12516837.00	0.52	11331791.00	110.5	70 - 120	
165 Ho	12126306.00	0.69	10919742.00	111.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03K00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\047_CCV.D\047_CCV.D#
Date Acquired: Feb 3 2012 03:48 pm
Operator: NBS
Sample Name: CCV 120203
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	52.33	ug/l	0.53	50.00	90 - 110	
11 B	57.38	ug/l	0.29	50.00	90 - 110	Fail
23 Na	1182.00	ug/l	0.34	1250.00	90 - 110	
24 Mg	2570.00	ug/l	0.70	2500.00	90 - 110	
27 Al	1047.00	ug/l	0.53	1000.00	90 - 110	
39 K	1026.00	ug/l	0.80	1000.00	90 - 110	
44 Ca	2543.00	ug/l	1.34	2500.00	90 - 110	
47 Ti	49.00	ug/l	0.84	50.00	90 - 110	
51 V	47.74	ug/l	0.33	50.00	90 - 110	
52 Cr	47.76	ug/l	0.71	50.00	90 - 110	
55 Mn	48.68	ug/l	0.05	50.00	90 - 110	
56 Fe	983.80	ug/l	0.57	1000.00	90 - 110	
59 Co	47.07	ug/l	0.58	50.00	90 - 110	
60 Ni	46.68	ug/l	1.31	50.00	90 - 110	
63 Cu	46.57	ug/l	0.78	50.00	90 - 110	
65 Cu	45.94	ug/l	0.51	50.00	90 - 110	
66 Zn	49.37	ug/l	2.05	50.00	90 - 110	
75 As	48.73	ug/l	1.33	50.00	90 - 110	
78 Se	49.46	ug/l	0.29	50.00	90 - 110	
78 Se	50.41	ug/l	0.51	50.00	90 - 110	
88 Sr	50.37	ug/l	0.42	50.00	90 - 110	
88 Sr	51.18	ug/l	2.10	50.00	90 - 110	
95 Mo	49.03	ug/l	0.56	50.00	90 - 110	
106 (Cd)	--------	ug/l	--------	50.00	90 - 110	
107 Ag	24.34	ug/l	1.55	25.00	90 - 110	
108 (Cd)	--------	ug/l	--------	50.00	90 - 110	
111 Cd	50.04	ug/l	0.22	50.00	90 - 110	
118 Sn	50.16	ug/l	0.15	---	##### - #####	
118 Sn	49.34	ug/l	0.24	---	##### - #####	
118 Sn	50.07	ug/l	0.18	50.00	90 - 110	
121 Sb	51.48	ug/l	0.71	50.00	90 - 110	
137 Ba	50.54	ug/l	0.20	50.00	90 - 110	
205 Tl	45.58	ug/l	0.46	50.00	90 - 110	
206 (Pb)	--------	ug/l	--------	50.00	90 - 110	
207 (Pb)	--------	ug/l	--------	50.00	90 - 110	
208 Pb	48.26	ug/l	0.57	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3610070.30	1.88	3064290.80	117.8	70 - 120	
45 Sc	3248652.30	0.33	2924075.00	111.1	70 - 120	
45 Sc	393995.59	0.40	340955.84	115.6	70 - 120	
45 Sc	6290273.50	0.48	5880860.00	107.0	70 - 120	
72 Ge	794540.25	1.15	724882.88	109.6	70 - 120	
72 Ge	255003.31	0.49	224740.89	113.5	70 - 120	
72 Ge	1352435.80	0.30	1271052.30	106.4	70 - 120	
115 In	6332947.00	0.42	5959684.00	106.3	70 - 120	
115 In	2616183.80	0.49	2344790.50	111.6	70 - 120	
115 In	8732563.00	0.80	8142423.50	107.2	70 - 120	
159 Tb	12234685.00	0.36	11331791.00	108.0	70 - 120	
165 Ho	11971863.00	0.23	10919742.00	109.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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\12B03k00.B\049_CCB.D\049_CCB.D#
Date Acquired: Feb 3 2012 04:01 pm
Operator: NBS
Sample Name: CCB 120203
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	########	
9 Be	0.00 ug/l	444.92	0.12	
11 B	4.16 ug/l	2.63	15.00	
23 Na	-48.40 ug/l	5.57	77.10	
24 Mg	-0.05 ug/l	201.19	7.50	
27 Al	-0.59 ug/l	52.92	3.96	
39 K	-6.11 ug/l	47.74	19.20	
44 Ca	-16.56 ug/l	11.28	90.00	
47 Ti	-0.08 ug/l	42.16	0.78	
51 V	-0.08 ug/l	4.19	0.21	
52 Cr	-0.10 ug/l	5.20	0.12	
55 Mn	-0.02 ug/l	48.35	0.18	
56 Fe	-0.64 ug/l	6.15	40.80	
59 Co	-0.01 ug/l	6.16	0.09	
60 Ni	-0.03 ug/l	19.11	0.48	
63 Cu	-0.15 ug/l	9.47	0.39	
65 Cu	-0.13 ug/l	4.23	0.39	
66 Zn	-0.03 ug/l	107.97	6.90	
75 As	-0.02 ug/l	24.79	0.27	
78 Se	0.01 ug/l	39.98	0.30	
78 Se	-0.22 ug/l	36.53	0.30	
88 Sr	-0.01 ug/l	36.09	0.03	
88 Sr	0.00 ug/l	43.44	0.03	
95 Mo	-0.02 ug/l	34.74	0.21	
106 (Cd)	-------- ug/l	--------	########	
107 Ag	-0.67 ug/l	0.51	0.09	
108 (Cd)	-------- ug/l	--------	########	
111 Cd	0.00 ug/l	475.82	0.06	
118 Sn	-0.01 ug/l	12.69	########	
118 Sn	-0.02 ug/l	53.55	########	
118 Sn	-0.02 ug/l	33.15	0.30	
121 Sb	-0.13 ug/l	10.45	0.03	
137 Ba	0.00 ug/l	508.58	0.12	
205 Tl	-0.02 ug/l	10.35	0.03	
206 (Pb)	-------- ug/l	--------	########	
207 (Pb)	-------- ug/l	--------	########	
208 Pb	-0.02 ug/l	4.86	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4199822.50	0.77	3064290.80	137.1	70 - 120	IS Fail
45 Sc	3410744.50	0.65	2924075.00	116.6	70 - 120	
45 Sc	418709.25	0.62	340955.84	122.8	70 - 120	IS Fail
45 Sc	6678361.50	0.64	5880860.00	113.6	70 - 120	
72 Ge	833246.81	1.03	724882.88	114.9	70 - 120	
72 Ge	262724.72	2.44	224740.89	116.9	70 - 120	
72 Ge	1422998.30	1.58	1271052.30	112.0	70 - 120	
115 In	6638073.50	1.31	5959684.00	111.4	70 - 120	
115 In	2768056.30	0.85	2344790.50	118.1	70 - 120	
115 In	9021249.00	0.75	8142423.50	110.8	70 - 120	
159 Tb	12533462.00	0.37	11331791.00	110.6	70 - 120	
165 Ho	12229954.00	0.66	10919742.00	112.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\061_CCV.D\061_CCV.D#
Date Acquired: Feb 3 2012 05:21 pm
Operator: NBS
Sample Name: CCV 120203
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	52.71	ug/l	0.25	50.00	90 - 110	
11 B	62.94	ug/l	1.16	50.00	90 - 110	Fail
23 Na	1164.00	ug/l	1.94	1250.00	90 - 110	
24 Mg	2567.00	ug/l	1.65	2500.00	90 - 110	
27 Al	1057.00	ug/l	2.20	1000.00	90 - 110	
39 K	1025.00	ug/l	1.09	1000.00	90 - 110	
44 Ca	2535.00	ug/l	2.18	2500.00	90 - 110	
47 Ti	48.21	ug/l	1.82	50.00	90 - 110	
51 V	47.42	ug/l	1.28	50.00	90 - 110	
52 Cr	47.16	ug/l	0.80	50.00	90 - 110	
55 Mn	48.22	ug/l	0.39	50.00	90 - 110	
56 Fe	978.30	ug/l	1.44	1000.00	90 - 110	
59 Co	46.40	ug/l	0.84	50.00	90 - 110	
60 Ni	46.16	ug/l	1.47	50.00	90 - 110	
63 Cu	45.66	ug/l	0.86	50.00	90 - 110	
65 Cu	45.51	ug/l	1.19	50.00	90 - 110	
66 Zn	49.06	ug/l	0.73	50.00	90 - 110	
75 As	48.77	ug/l	0.45	50.00	90 - 110	
78 Se	48.44	ug/l	0.41	50.00	90 - 110	
78 Se	50.10	ug/l	1.33	50.00	90 - 110	
88 Sr	50.70	ug/l	1.30	50.00	90 - 110	
88 Sr	51.35	ug/l	0.72	50.00	90 - 110	
95 Mo	48.95	ug/l	0.44	50.00	90 - 110	
106 (Cd)	--------	ug/l	--------	50.00	90 - 110	
107 Ag	24.28	ug/l	0.91	25.00	90 - 110	
108 (Cd)	--------	ug/l	--------	50.00	90 - 110	
111 Cd	48.99	ug/l	0.62	50.00	90 - 110	
118 Sn	49.97	ug/l	0.45	---	##### - #####	
118 Sn	50.46	ug/l	0.91	---	##### - #####	
118 Sn	50.89	ug/l	0.42	50.00	90 - 110	
121 Sb	50.63	ug/l	0.66	50.00	90 - 110	
137 Ba	50.53	ug/l	0.45	50.00	90 - 110	
205 Tl	44.84	ug/l	0.35	50.00	90 - 110	Fail
206 (Pb)	--------	ug/l	--------	50.00	90 - 110	
207 (Pb)	--------	ug/l	--------	50.00	90 - 110	
208 Pb	47.52	ug/l	0.87	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3686526.30	0.73	3064290.80	120.3	70 - 120	IS Fail
45 Sc	3303236.00	0.98	2924075.00	113.0	70 - 120	
45 Sc	398066.41	0.78	340955.84	116.8	70 - 120	
45 Sc	6272068.00	0.48	5880860.00	106.7	70 - 120	
72 Ge	794585.25	0.94	724882.88	109.6	70 - 120	
72 Ge	258256.84	1.32	224740.89	114.9	70 - 120	
72 Ge	1340084.10	0.61	1271052.30	105.4	70 - 120	
115 In	6427798.50	0.64	5959684.00	107.9	70 - 120	
115 In	2623190.80	1.04	2344790.50	111.9	70 - 120	
115 In	8755606.00	0.12	8142423.50	107.5	70 - 120	
159 Tb	12334404.00	0.72	11331791.00	108.8	70 - 120	
165 Ho	12037831.00	0.44	10919742.00	110.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\063_CCB.D\063_CCB.D#
Date Acquired: Feb 3 2012 05:35 pm
Operator: NBS
Sample Name: CCB 120203
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#######	
9 Be	0.00 ug/l	38.70	0.12	
11 B	7.27 ug/l	11.05	15.00	
23 Na	-48.30 ug/l	0.90	77.10	
24 Mg	-0.07 ug/l	142.68	7.50	
27 Al	-0.62 ug/l	50.73	3.96	
39 K	4.18 ug/l	51.20	19.20	
44 Ca	-10.91 ug/l	16.32	90.00	
47 Ti	-0.06 ug/l	32.40	0.78	
51 V	-0.08 ug/l	5.74	0.21	
52 Cr	-0.10 ug/l	7.34	0.12	
55 Mn	-0.03 ug/l	31.53	0.18	
56 Fe	-0.61 ug/l	4.44	40.80	
59 Co	-0.01 ug/l	20.68	0.09	
60 Ni	-0.03 ug/l	9.66	0.48	
63 Cu	-0.14 ug/l	8.06	0.39	
65 Cu	-0.13 ug/l	11.05	0.39	
66 Zn	-0.01 ug/l	197.56	6.90	
75 As	-0.01 ug/l	8.09	0.27	
78 Se	0.07 ug/l	11.72	0.30	
78 Se	-0.01 ug/l	136.51	0.30	
88 Sr	-0.01 ug/l	37.41	0.03	
88 Sr	0.00 ug/l	50213.00	0.03	
95 Mo	-0.03 ug/l	16.43	0.21	
106 (Cd)	-------- ug/l	--------	#######	
107 Ag	-0.66 ug/l	0.26	0.09	
108 (Cd)	-------- ug/l	--------	#######	
111 Cd	0.00 ug/l	595.67	0.06	
118 Sn	0.08 ug/l	7.64	#######	
118 Sn	0.09 ug/l	51.35	#######	
118 Sn	0.09 ug/l	12.96	0.30	
121 Sb	-0.08 ug/l	7.44	0.03	
137 Ba	0.00 ug/l	998.85	0.12	
205 Tl	-0.01 ug/l	25.58	0.03	
206 (Pb)	-------- ug/l	--------	#######	
207 (Pb)	-------- ug/l	--------	#######	
208 Pb	-0.02 ug/l	6.66	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4128047.30	1.24	3064290.80	134.7	70 - 120	IS Fail
45 Sc	3372659.80	0.65	2924075.00	115.3	70 - 120	
45 Sc	401759.91	0.67	340955.84	117.8	70 - 120	
45 Sc	6586785.50	1.20	5880860.00	112.0	70 - 120	
72 Ge	819429.50	0.21	724882.88	113.0	70 - 120	
72 Ge	261973.58	1.71	224740.89	116.6	70 - 120	
72 Ge	1407395.60	0.90	1271052.30	110.7	70 - 120	
115 In	6568839.50	0.57	5959684.00	110.2	70 - 120	
115 In	2710702.00	0.51	2344790.50	115.6	70 - 120	
115 In	8938281.00	0.62	8142423.50	109.8	70 - 120	
159 Tb	12422615.00	1.48	11331791.00	109.6	70 - 120	
165 Ho	12058374.00	1.22	10919742.00	110.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\075_CCV.D\075_CCV.D#
Date Acquired: Feb 3 2012 06:56 pm
Operator: NBS
Sample Name: CCV 120203
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	50.48 ug/l	1.21	50.00	90 - 110	
11 B	57.41 ug/l	0.54	50.00	90 - 110	Fail
23 Na	1162.00 ug/l	0.80	1250.00	90 - 110	
24 Mg	2551.00 ug/l	1.07	2500.00	90 - 110	
27 Al	1043.00 ug/l	1.41	1000.00	90 - 110	
39 K	1036.00 ug/l	0.94	1000.00	90 - 110	
44 Ca	2558.00 ug/l	2.52	2500.00	90 - 110	
47 Ti	48.85 ug/l	2.16	50.00	90 - 110	
51 V	48.19 ug/l	0.62	50.00	90 - 110	
52 Cr	47.74 ug/l	0.62	50.00	90 - 110	
55 Mn	48.82 ug/l	1.65	50.00	90 - 110	
56 Fe	982.20 ug/l	0.92	1000.00	90 - 110	
59 Co	46.73 ug/l	1.09	50.00	90 - 110	
60 Ni	46.15 ug/l	1.32	50.00	90 - 110	
63 Cu	45.99 ug/l	0.75	50.00	90 - 110	
65 Cu	45.90 ug/l	1.86	50.00	90 - 110	
66 Zn	48.82 ug/l	0.91	50.00	90 - 110	
75 As	49.38 ug/l	0.25	50.00	90 - 110	
78 Se	48.21 ug/l	0.73	50.00	90 - 110	
78 Se	49.67 ug/l	1.63	50.00	90 - 110	
88 Sr	50.67 ug/l	0.27	50.00	90 - 110	
88 Sr	51.99 ug/l	2.19	50.00	90 - 110	
95 Mo	48.99 ug/l	1.93	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	24.30 ug/l	1.95	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	49.49 ug/l	1.74	50.00	90 - 110	
118 Sn	49.81 ug/l	0.95	---	##### - #####	
118 Sn	50.03 ug/l	0.63	---	##### - #####	
118 Sn	49.89 ug/l	1.72	50.00	90 - 110	
121 Sb	49.17 ug/l	0.90	50.00	90 - 110	
137 Ba	50.17 ug/l	2.74	50.00	90 - 110	
205 Tl	43.96 ug/l	0.93	50.00	90 - 110	Fail
206 (Pb)	-------- ug/l	--------	50.00	90 - 110	
207 (Pb)	-------- ug/l	--------	50.00	90 - 110	
208 Pb	46.43 ug/l	0.31	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3531220.30	1.15	3064290.80	115.2	70 - 120	
45 Sc	3276384.80	0.66	2924075.00	112.0	70 - 120	
45 Sc	393901.81	1.10	340955.84	115.5	70 - 120	
45 Sc	6295156.50	0.94	5880860.00	107.0	70 - 120	
72 Ge	790631.56	1.36	724882.88	109.1	70 - 120	
72 Ge	253615.94	1.00	224740.89	112.8	70 - 120	
72 Ge	1349182.50	0.39	1271052.30	106.1	70 - 120	
115 In	6403919.50	0.57	5959684.00	107.5	70 - 120	
115 In	2606577.00	0.67	2344790.50	111.2	70 - 120	
115 In	8698286.00	1.44	8142423.50	106.8	70 - 120	
159 Tb	12082266.00	0.63	11331791.00	106.6	70 - 120	
165 Ho	11727983.00	0.19	10919742.00	107.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.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\12B03k00.B\077_CCB.D\077_CCB.D#
Date Acquired: Feb 3 2012 07:09 pm
Operator: NBS
Sample Name: CCB 120203
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#######	
9 Be	0.00 ug/l	86.26	0.12	
11 B	5.50 ug/l	2.29	15.00	
23 Na	-42.44 ug/l	3.61	77.10	
24 Mg	-0.09 ug/l	119.56	7.50	
27 Al	-0.10 ug/l	75.66	3.96	
39 K	6.44 ug/l	50.37	19.20	
44 Ca	-6.94 ug/l	36.31	90.00	
47 Ti	-0.09 ug/l	20.72	0.78	
51 V	-0.07 ug/l	2.73	0.21	
52 Cr	-0.11 ug/l	2.42	0.12	
55 Mn	-0.01 ug/l	105.52	0.18	
56 Fe	-0.64 ug/l	1.32	40.80	
59 Co	-0.01 ug/l	36.02	0.09	
60 Ni	-0.03 ug/l	9.33	0.48	
63 Cu	-0.15 ug/l	6.84	0.39	
65 Cu	-0.14 ug/l	14.65	0.39	
66 Zn	-0.03 ug/l	69.60	6.90	
75 As	-0.01 ug/l	46.47	0.27	
78 Se	0.05 ug/l	16.74	0.30	
78 Se	0.33 ug/l	74.49	0.30	Fail
88 Sr	-0.01 ug/l	64.44	0.03	
88 Sr	0.00 ug/l	78.11	0.03	
95 Mo	-0.03 ug/l	11.02	0.21	
106 (Cd)	-------- ug/l	--------	#######	
107 Ag	-0.63 ug/l	0.26	0.09	
108 (Cd)	-------- ug/l	--------	#######	
111 Cd	0.00 ug/l	49.63	0.06	
118 Sn	0.04 ug/l	43.68	#######	
118 Sn	0.03 ug/l	78.73	#######	
118 Sn	0.02 ug/l	53.06	0.30	
121 Sb	-0.14 ug/l	4.56	0.03	
137 Ba	0.00 ug/l	240.89	0.12	
205 Tl	-0.02 ug/l	4.49	0.03	
206 (Pb)	-------- ug/l	--------	#######	
207 (Pb)	-------- ug/l	--------	#######	
208 Pb	-0.02 ug/l	21.04	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3873507.00	1.28	3064290.80	126.4	70 - 120	IS Fail
45 Sc	3331849.50	1.44	2924075.00	113.9	70 - 120	
45 Sc	395385.56	0.88	340955.84	116.0	70 - 120	
45 Sc	6427289.00	1.01	5880860.00	109.3	70 - 120	
72 Ge	822542.06	1.85	724882.88	113.5	70 - 120	
72 Ge	256723.70	1.14	224740.89	114.2	70 - 120	
72 Ge	1389591.60	0.45	1271052.30	109.3	70 - 120	
115 In	6501620.50	1.53	5959684.00	109.1	70 - 120	
115 In	2620193.80	1.04	2344790.50	111.7	70 - 120	
115 In	8832362.00	0.57	8142423.50	108.5	70 - 120	
159 Tb	12088906.00	1.08	11331791.00	106.7	70 - 120	
165 Ho	11668757.00	0.59	10919742.00	106.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

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	0.22 U	0.5	0.22	0.11	ug/L	01/31/12	02/03/12	#602D-120131A-AY53807

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\041SMPL.D\041SMPL.D#
Date Acquired: Feb 3 2012 03:07 pm
Operator: NBS
Sample Name: 120131A-3015-BLK
Misc Info: 120131A-3015
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	0.00	ug/l	0.00	66.58	1000	
11 B	2.41	ug/l	2.68	1.55	1000	
23 Na	60.35	ug/l	67.05	3.29	25000	
24 Mg	2.85	ug/l	3.17	3.21	50000	
27 Al	1.03	ug/l	1.15	45.27	20000	
39 K	2.31	ug/l	2.56	54.77	20000	
44 Ca	-0.71	ug/l	-0.79	174.83	50000	
47 Ti	0.01	ug/l	0.02	198.82	1000	
51 V	-0.06	ug/l	-0.07	11.27	1000	
52 Cr	0.47	ug/l	0.53	5.98	1000	
55 Mn	0.29	ug/l	0.32	3.96	1000	
56 Fe	2.97	ug/l	3.30	2.53	20000	
59 Co	0.06	ug/l	0.07	2.59	1000	
60 Ni	0.00	ug/l	0.01	170.62	1000	
63 Cu	-0.09	ug/l	-0.10	11.60	1000	
65 Cu	-0.09	ug/l	-0.10	15.59	1000	
66 Zn	0.48	ug/l	0.53	9.07	1000	
75 As	-0.01	ug/l	-0.01	65.45	1000	
78 Se	0.01	ug/l	0.01	139.41	1000	
78 Se	0.03	ug/l	0.04	178.52	1000	
88 Sr	0.00	ug/l	0.00	5882.40	1000	
88 Sr	0.01	ug/l	0.01	9.94	1000	
95 Mo	-0.04	ug/l	-0.05	7.52	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	-0.64	ug/l	-0.71	0.33	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	0.00	ug/l	0.00	141.83	1000	
118 Sn	0.10	ug/l	0.11	10.71	#######	
118 Sn	0.09	ug/l	0.10	33.57	########	
118 Sn	0.09	ug/l	0.10	6.55	1000	
121 Sb	-0.16	ug/l	-0.18	5.95	1000	
137 Ba	0.02	ug/l	0.02	9.83	1000	
205 Tl	0.00	ug/l	0.00	4781.90	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	-0.02	ug/l	-0.02	16.22	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3701654.50	0.44	3064290.80	120.8	70 - 120	IS Fai
45 Sc	3204092.80	1.83	2924075.00	109.6	70 - 120	
45 Sc	392042.88	0.72	340955.84	115.0	70 - 120	
45 Sc	6290720.00	0.48	5880860.00	107.0	70 - 120	
72 Ge	763553.88	1.31	724882.88	105.3	70 - 120	
72 Ge	246514.14	1.91	224740.89	109.7	70 - 120	
72 Ge	1327909.00	1.53	1271052.30	104.5	70 - 120	
115 In	6122473.00	0.64	5959684.00	102.7	70 - 120	
115 In	2521233.00	0.63	2344790.50	107.5	70 - 120	
115 In	8569724.00	0.64	8142423.50	105.2	70 - 120	
159 Tb	11852258.00	0.41	11331791.00	104.6	70 - 120	
165 Ho	11506622.00	1.35	10919742.00	105.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

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	47.6	95.2	80-120	01/31/12	02/03/12	#602D-120131A-AY53807

505

Comments:

Printed: 02/07/12 1:07:21 PM
APPL Standard LCS

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\045SMPL.D\045SMPL.D#
Date Acquired: Feb 3 2012 03:34 pm
Operator: NBS
Sample Name: 120131A-3015-LCS
Misc Info: 120131A-3015
Vial Number: 3106
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	9.37	ug/l	10.41	1.59	1000	
11 B	57.03	ug/l	63.36	1.22	1000	
23 Na	4485.00	ug/l	4982.84	0.11	25000	
24 Mg	4789.00	ug/l	5320.58	5.64	50000	
27 Al	393.10	ug/l	436.73	1.92	20000	
39 K	917.30	ug/l	1019.12	1.20	20000	
44 Ca	4821.00	ug/l	5356.13	1.27	50000	
47 Ti	45.25	ug/l	50.27	3.32	1000	
51 V	43.37	ug/l	48.18	0.80	1000	
52 Cr	45.48	ug/l	50.53	1.23	1000	
55 Mn	45.29	ug/l	50.32	0.93	1000	
56 Fe	177.60	ug/l	197.31	1.08	20000	
59 Co	42.64	ug/l	47.37	1.41	1000	
60 Ni	43.01	ug/l	47.78	0.62	1000	
63 Cu	40.59	ug/l	45.10	1.18	1000	
65 Cu	40.17	ug/l	44.63	0.98	1000	
66 Zn	84.06	ug/l	93.39	1.70	1000	
75 As	40.95	ug/l	45.50	0.94	1000	
78 Se	38.40	ug/l	42.66	1.21	1000	
78 Se	38.14	ug/l	42.37	1.97	1000	
88 Sr	45.84	ug/l	50.93	0.76	1000	
88 Sr	42.53	ug/l	47.25	0.67	1000	
95 Mo	44.44	ug/l	49.37	0.54	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	16.32	ug/l	18.13	1.13	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	8.50	ug/l	9.45	1.71	1000	
118 Sn	48.53	ug/l	53.92	1.16	#######	
118 Sn	48.25	ug/l	53.61	0.34	#######	
118 Sn	49.12	ug/l	54.57	0.33	1000	
121 Sb	43.91	ug/l	48.78	0.44	1000	
137 Ba	44.03	ug/l	48.92	0.49	1000	
205 Tl	40.15	ug/l	44.61	0.40	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	42.85	ug/l	47.61	0.14	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3922210.80	1.51	3064290.80	128.0	70 - 120	IS Fai
45 Sc	3197252.00	1.43	2924075.00	109.3	70 - 120	
45 Sc	386788.88	0.89	340955.84	113.4	70 - 120	
45 Sc	6325252.00	0.87	5880860.00	107.6	70 - 120	
72 Ge	759157.13	1.12	724882.88	104.7	70 - 120	
72 Ge	245322.25	1.21	224740.89	109.2	70 - 120	
72 Ge	1324692.10	0.78	1271052.30	104.2	70 - 120	
115 In	6045791.00	0.65	5959684.00	101.4	70 - 120	
115 In	2517394.30	0.92	2344790.50	107.4	70 - 120	
115 In	8413796.00	0.38	8142423.50	103.3	70 - 120	
159 Tb	11592250.00	0.34	11331791.00	102.3	70 - 120	
165 Ho	11283941.00	0.63	10919742.00	103.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

Matrix Spike Recoveries

METALS

APPL ID: **120131W-53807 MS - 163676**

Sample ID: AY53807

Client ID: ES060

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	50.0	0.14	46.9	46.5	93.5	92.7	0.9	20	80-120	01/31/12	02/03/12	01/31/12	02/03/12	163676	AY53807

507

Comments: _____

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\067SMPL.D\067SMPL.D#
Date Acquired: Feb 3 2012 06:02 pm
Operator: NBS
Sample Name: AY53807W15 MS
Misc Info: 120131A-3015
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	9.46	ug/l	10.51	1.13	1000	
11 B	245.00	ug/l	272.20	1.85	1000	
23 Na	86370.00	ug/l	95957.07	1.43	25000	>Cal
24 Mg	33920.00	ug/l	37685.12	0.58	50000	
27 Al	410.10	ug/l	455.62	2.54	20000	
39 K	4503.00	ug/l	5002.83	1.76	20000	
44 Ca	27770.00	ug/l	30852.47	1.98	50000	
47 Ti	46.43	ug/l	51.58	1.92	1000	
51 V	60.39	ug/l	67.09	0.99	1000	
52 Cr	46.30	ug/l	51.44	0.44	1000	
55 Mn	105.40	ug/l	117.10	1.03	1000	
56 Fe	234.80	ug/l	260.86	0.70	20000	
59 Co	42.20	ug/l	46.88	1.47	1000	
60 Ni	44.07	ug/l	48.96	1.32	1000	
63 Cu	40.45	ug/l	44.94	1.16	1000	
65 Cu	40.33	ug/l	44.81	0.29	1000	
66 Zn	101.00	ug/l	112.21	1.30	1000	
75 As	43.86	ug/l	48.73	1.61	1000	
78 Se	40.08	ug/l	44.53	0.74	1000	
78 Se	41.78	ug/l	46.42	2.25	1000	
88 Sr	182.90	ug/l	203.20	0.51	1000	
88 Sr	180.40	ug/l	200.42	0.26	1000	
95 Mo	58.94	ug/l	65.48	1.35	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	16.15	ug/l	17.94	2.07	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	8.64	ug/l	9.60	1.34	1000	
118 Sn	50.77	ug/l	56.41	0.49	#######	
118 Sn	50.04	ug/l	55.59	0.47	#######	
118 Sn	51.27	ug/l	56.96	0.49	1000	
121 Sb	46.47	ug/l	51.63	0.27	1000	
137 Ba	55.40	ug/l	61.55	0.58	1000	
205 Tl	39.58	ug/l	43.97	1.42	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	42.25	ug/l	46.94	1.60	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3690361.00	1.88	3064290.80	120.4	70 - 120	IS Fai
45 Sc	3227324.30	0.94	2924075.00	110.4	70 - 120	
45 Sc	386208.97	1.24	340955.84	113.3	70 - 120	
45 Sc	6381927.50	0.43	5880860.00	108.5	70 - 120	
72 Ge	751848.00	0.91	724882.88	103.7	70 - 120	
72 Ge	241113.81	1.61	224740.89	107.3	70 - 120	
72 Ge	1292944.10	0.61	1271052.30	101.7	70 - 120	
115 In	5973777.50	0.76	5959684.00	100.2	70 - 120	
115 In	2453629.00	1.01	2344790.50	104.6	70 - 120	
115 In	8293541.50	0.87	8142423.50	101.9	70 - 120	
159 Tb	11479718.00	0.84	11331791.00	101.3	70 - 120	
165 Ho	11172767.00	0.25	10919742.00	102.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B03k00.B\068SMPL.D\068SMPL.D#
Date Acquired: Feb 3 2012 06:09 pm
Operator: NBS
Sample Name: AY53807W15 MSD
Misc Info: 120131A-3015
Vial Number: 3212
Current Method: C:\ICPCHEM\1\METHODS\62A0203A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0203A.C
Last Cal Update: Feb 03 2012 11:28 am
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	9.27	ug/l	10.30	0.39	1000	
11 B	242.70	ug/l	269.64	0.51	1000	
23 Na	84010.00	ug/l	93335.11	1.03	25000	>Cal
24 Mg	33250.00	ug/l	36940.75	0.88	50000	
27 Al	410.60	ug/l	456.18	0.95	20000	
39 K	4461.00	ug/l	4956.17	2.77	20000	
44 Ca	27100.00	ug/l	30108.10	2.04	50000	
47 Ti	46.23	ug/l	51.36	3.25	1000	
51 V	59.67	ug/l	66.29	1.92	1000	
52 Cr	45.97	ug/l	51.07	2.55	1000	
55 Mn	103.60	ug/l	115.10	2.06	1000	
56 Fe	214.50	ug/l	238.31	1.81	20000	
59 Co	41.53	ug/l	46.14	1.76	1000	
60 Ni	43.03	ug/l	47.81	1.22	1000	
63 Cu	40.03	ug/l	44.47	1.98	1000	
65 Cu	39.82	ug/l	44.24	2.52	1000	
66 Zn	87.27	ug/l	96.96	1.01	1000	
75 As	44.21	ug/l	49.12	0.66	1000	
78 Se	39.75	ug/l	44.16	0.97	1000	
78 Se	41.93	ug/l	46.58	0.88	1000	
88 Sr	183.60	ug/l	203.98	0.28	1000	
88 Sr	182.90	ug/l	203.20	0.54	1000	
95 Mo	60.77	ug/l	67.52	0.51	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	16.43	ug/l	18.25	0.69	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	8.67	ug/l	9.63	1.12	1000	
118 Sn	50.94	ug/l	56.59	1.55	#######	
118 Sn	50.66	ug/l	56.28	0.82	#######	
118 Sn	51.40	ug/l	57.11	0.69	1000	
121 Sb	46.99	ug/l	52.21	1.30	1000	
137 Ba	56.21	ug/l	62.45	0.86	1000	
205 Tl	39.57	ug/l	43.96	0.12	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	41.93	ug/l	46.58	0.45	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3713249.00	1.97	3064290.80	121.2	70 - 120	IS Fai
45 Sc	3196772.30	1.20	2924075.00	109.3	70 - 120	
45 Sc	394734.31	2.15	340955.84	115.8	70 - 120	
45 Sc	6397879.00	1.03	5880860.00	108.8	70 - 120	
72 Ge	740956.00	1.21	724882.88	102.2	70 - 120	
72 Ge	242648.17	1.81	224740.89	108.0	70 - 120	
72 Ge	1307548.10	1.22	1271052.30	102.9	70 - 120	
115 In	5999836.00	0.93	5959684.00	100.7	70 - 120	
115 In	2461568.80	0.37	2344790.50	105.0	70 - 120	
115 In	8236861.50	0.38	8142423.50	101.2	70 - 120	
159 Tb	11512170.00	0.35	11331791.00	101.6	70 - 120	
165 Ho	11156750.00	0.67	10919742.00	102.2	70 - 120	

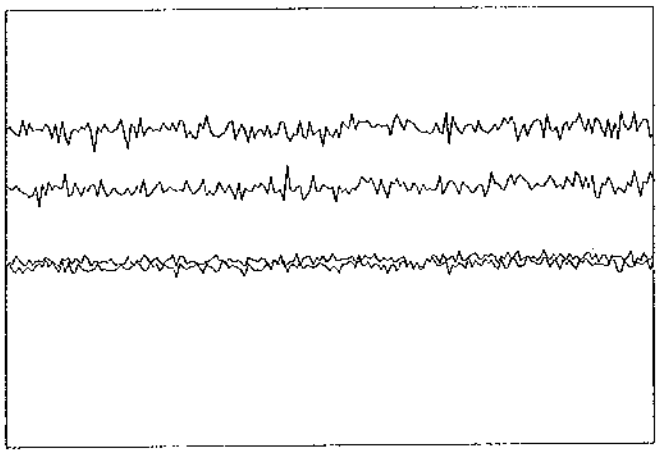
ISTD Ref File : C:\ICPCHEM\1\DATA\12B03k00.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Fail

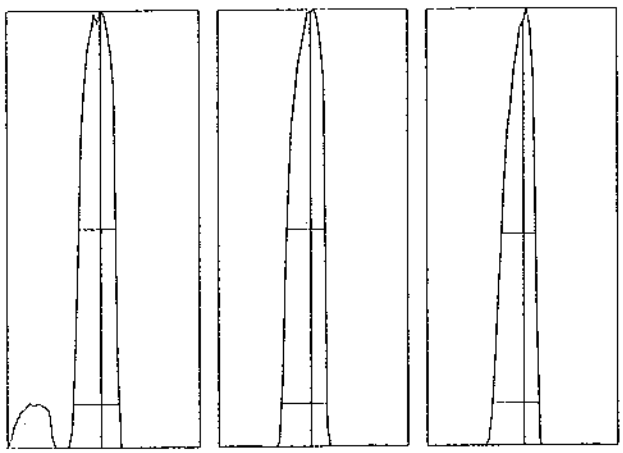
Tune Report

Tune File : NG_HMI.u
Comment : 120203



Integration Time:	0.1000 sec	
Sampling Period:	0.6200 sec	
n:	200	
Oxide:	156/140	0.937%
Doubly Charged:	70/140	1.159%

m/z	Range	Count	Mean	RSD%	Background
7	20,000	12043.0	11826.6	2.46	2.10
89	50,000	21740.0	21298.6	1.82	1.40
205	20,000	14285.0	14512.3	2.22	4.50
156/140	2	0.885%	0.942%	7.36	
70/140	2	1.112%	1.156%	6.97	
140	50,000	21136.0	20593.2	2.12	3.00



m/z:	7	89	205
Height:	12,010	21,330	15,005
Axis:	7.00	89.00	205.05
W-50%:	0.60	0.65	0.55
W-10%:	0.7500	0.7500	0.7500

Integration Time:	0.1000 sec
Acquisition Time:	22.7600 sec

Y axis : Linear

Generated : Feb 03, 2012 09:45:42
Printed : Feb 03, 2012 09:45:44

Tune Report

Tune File : NG_HMI.u
Comment : 120203

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1600 W	Extract 1	:	0 V	AMU Gain	:	126
RF Matching	:	1.84 V	Extract 2	:	-170 V	AMU Offset	:	127
Smpl Depth	:	8 mm	Omega Bias-ce	:	-18 V	Axis Gain	:	1.0001
Torch-H	:	-0.2 mm	Omega Lens-ce	:	0.2 V	Axis Offset	:	-0.05
Torch-V	:	0.4 mm	Cell Entrance	:	-30 V	QP Bias	:	-3 V
Carrier Gas	:	0.4 L/min	QP Focus	:	5 V			
Makeup Gas	:	0.6 L/min	Cell Exit	:	-30 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	8 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1680 V
Sample Pump	:	--- rps	OctP RF	:	180 V	Pulse HV	:	1150 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	:	--- %

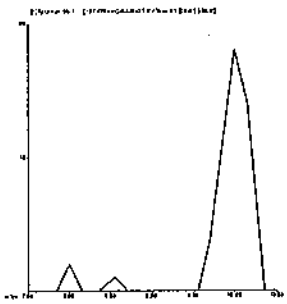
Generated : Feb 03, 2012 09:45:42
Printed : Feb 03, 2012 09:45:46

200.8 QC Tune Report

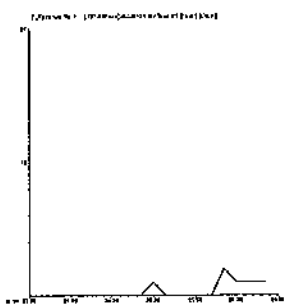
Data File: C:\ICPCHEM\1\DATA\12B03k00.B\001TUNE.D
Date Acquired: Feb 3 2012 10:32 am
Acq. Method: TN200_8.M
Operator: NBS
Sample Name: 100ppb Tune sol
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

RSD (%)

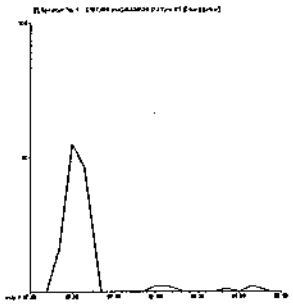
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	2019252	1966220	2026081	2049307	2051016	2003634	**1.89**	5.00	
24 Mg	5544806	5448692	5542204	5561947	5599490	5571699	**1.28**	5.00	
59 Co	7727861	7664954	7792832	7773472	7697300	7710747	**1.06**	5.00	
115 In	35035147	34632544	35562356	35227628	34906816	34846388	**0.87**	5.00	
208 Pb	6205444	6103728	6221644	6268316	6216480	6217052	**1.15**	5.00	



9 Be
Mass Calib.
Actual: 8.95
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:



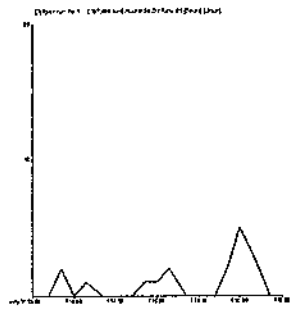
59 Co

Mass Calib.

Actual:	59.00		
Required:	58.90	-	59.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.90		
Flag:			



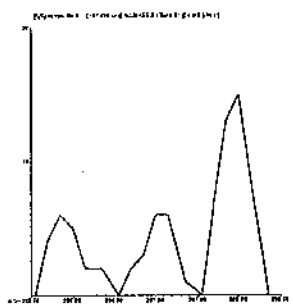
115 In

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:	208.05		
Required:	207.90	-	208.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.80		
Flag:			

Tune Result: Pass

052

Metals Standards Log Book # 34 Page # 053

NBS 02/03/12

6020/6020A

A

NBS 02/03/12

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date: 02/03/12
Expires: 02/10/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL DI Water
Lot # K23022
20mL HCL / 2000mL DI Water
Lot #K43032
Expires: 02/10/12

Internal Standard Mix: Prep 02/03/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	Env. Express	1036407-28139
50 uL	CCV-B	Env. Express	1036410-28140
50 uL	CCV-C	Env. Express	1100309-28141

Prepared in 100 mL of 1% HNO3/1.0% HCL 02/03/12

Standard 3 02/10/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	Env. Express	1036407-28139
25 uL	CCV-B	Env. Express	1036410-28140
25 uL	CCV-C	Env. Express	1100309-28141

Prepared in 100 mL of 1% HNO3/1.0% HCL 02/03/12

NBS 02/03/12

Standard 2 02/10/12
Amount STD
500 uL Standard 4 02/03/12
Prepared in 50 mL of 1% HNO3/1.0% HCL 02/03/12

Standard 1 02/10/12
Amount STD
50 uL Standard 4 02/03/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 02/03/12

ICP-MS ICV 02/10/12
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 02/03/12

ICSA Prep: 02/10/12
1 mL ICSA CPI 11C068-28529
Prepared in 5 mL of 1% HNO3/1.0% HCL 02/03/12

ICSAB Prep: 02/10/12
1mL ICSA CPI 11C068-28529
0.025mL INT O2SI 1023805-28210
Prepared in 5 mL of 1% HNO3/1.0% HCL 02/03/12

ICP-LDR 02/10/12
Amount STD
50 uL CCV-A Env. Express 1036407-28139
50 uL CCV-B Env. Express 1036410-28140
50 uL CCV-C Env. Express 1100309-28141
Prepared in 10 mL of 1% HNO3/1.0% HCL 02/03/12

NBS 02/03/12

NBS 02/03/12

Internal Standard Concentration

Amt	STD	Element	Vendor	Lot#	Final Conc. In Std	Expires
500uL	1000 ug/mL	Li	CPI	10L079-27839	5000 ug/L	06/10/12
500uL	1000 ug/mL	In	CPI	10J155-26574	5000 ug/L	09/25/12
500uL	1000 ug/mL	Ho	CPI	10A107-28576	5000 ug/L	09/25/12
500uL	1000 ug/mL	Tb	CPI	11B064-28575	5000 ug/L	09/25/12
500uL	1000 ug/mL	Sc	o2si	1024073-28527	5000 ug/L	08/18/12
500uL	1000 ug/mL	Ge	Environmental Express	1116041-29381	5000 ug/L	02/05/13

Prep:	02/03/12	NBS	Prep in -	1%HNO3/1.0%HCL:	Lot #KK23022/43032	in 100mL
Expires:	03/04/12					

Prep 2/3/12

Prep 2/3/12

Hg WORKING STANDARD

1ml X 10ug/ml Hg STOCK STD. (01/19/12KWS)/200ml 1% HNO3 Lot#K23022
1ml X 10ug/ml Hg STOCK ICV (01/19/12KWS)/200ml 1% HNO3 Lot#K23022
Final concentration is 50 ug/L. Expires.....2/3/12.....

2/3/12

6010B/C R

1%HNO3 / 5%HCl BLK

AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	BDH	411040	12/28/11
20 mL	HNO3	JT BAKER	K23022	12/27/11
Prepared in 2000 ml DI Water				

STD 3 / LDL 6010B/6010C

AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.5 mL	6010 LDL	ABSOLUTE	091409-25205	09/14/12
Prepared in 50 ml 1%HNO3/5%HCl				

STD 3 / HDL 6010B/6010C

1ML	CCV-A	ABSOLUTE	091409-25206	09/14/12
1ML	CCV-B	ABSOLUTE	091109-26208	09/14/12
1ML	CCV-C	ABSOLUTE	091009-25207	09/10/12
Prepared in 100 ml 1%HNO3 / 5%HCl				

STD 3 / CCV3 6010B/6010C/6010C

AMOUNT	STD	PREP DATE	EXP DATE
25mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

CCV2 6010B/6010C

AMOUNT	STD	PREP DATE	EXP DATE
15mL	STD 3	Today	1 week
25mL	1%HNO3/5%HCl	Today	1 week

6010B/6010C ICSA

AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	10E012-27665	04/20/12
1mL	Ca	CPI	11A006-28528	09/15/12
1mL	Mg	CPI	10H213-27666	04/20/12
1mL	Fe	O2SI	1022245-27699	04/22/12
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICSAB

1mL	Al	CPI	10E012-27665	04/20/12
1mL	Ca	CPI	11A006-28528	09/15/12
1mL	Mg	CPI	10H213-27666	04/20/12
1mL	Fe	O2SI	1022245-27699	04/22/12
0.5mL	JT SPECIAL M	O2SI	160495-01-01	03/01/12
Prepared in 50 ml 1%HNO3/5%HCl				

6010B/6010C ICV

0.5ML	QCS ICV A	CPI	11C174-28548	09/17/12
0.5ML	QCS ICV B	CPI	11C174-28549	09/17/12
Prepared in 50ml 1%HNO3/5%HCl				

D 2-3-12

_M3015

Metals Digestion Worksheet

Method Name 3015 Digestion **Prep Method** M3015 **Set** 120131A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1032278-30261
Spiked ID 2	LCSW LOT# 1032271-30259
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 01/31/12 11:20:00 AM
Witnessed By	NBS Date: 01/31/12 11:20:00 AM

Starting Temp:	20 c
Ending Temp:	170 c
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	Yes
End Date/Time	01/31/12 12:30

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	120131A Blk				45mL	50mL	01/31/12 11:20	equip: Venus
2	120131A LCS		90uL	1+2	45mL	50mL	01/31/12 11:20	equip: Venus
3	AY53748	AY53748W04			45mL	50mL	01/31/12 11:20	equip: Venus
4	AY53749	AY53749W04			45mL	50mL	01/31/12 11:20	equip: Venus
5	AY53750	AY53750W04			45mL	50mL	01/31/12 11:20	equip: Venus
6	AY53750 DUP	AY53750W04			45mL	50mL	01/31/12 11:20	equip: Venus
7	AY53750 MS	AY53750W04	90uL	1+2	45mL	50mL	01/31/12 11:20	equip: Venus
8	AY53751	AY53751W04			45mL	50mL	01/31/12 11:20	equip: Venus
9	AY53807	AY53807W16			45mL	50mL	01/31/12 11:20	equip: Venus
10	AY53807 MS	AY53807W15	90uL	1+2	45mL	50mL	01/31/12 11:20	equip: Venus
11	AY53807 MSD	AY53807W15	90uL	1+2	45mL	50mL	01/31/12 11:20	equip: Venus
12	AY53808	AY53808W08			45mL	50mL	01/31/12 11:20	equip: Venus

Solvent and Lot#
HNO3 J.T.B K23022 0135

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	SA
Date	1-31-12
Time	12:30
Moved to	Metals

Technicians Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	lo
Bring up to volume	lo
Modified	01/31/12 10:58:21 AM

Reviewed By: SA 515 **Date:** 1-31-12

6020/200.8 Injection Log

Directory: K:\ICP-MS Optimus\raw data output csv\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	03 Feb 2012	10:57	Calibration Blank		120203Arev	1.
2	03 Feb 2012	11:04	120203 Standard 1		120203Arev	1.
3	03 Feb 2012	11:10	120203 Standard 2		120203Arev	1.
4	03 Feb 2012	11:17	120203 Standard 3		120203Arev	1.
5	03 Feb 2012	11:24	120203 Standard 4		120203Arev	1.
6	03 Feb 2012	11:31	ICV 120203		120203Arev	1.
9	03 Feb 2012	11:57	ICB 120203		120203Arev	1.
10	03 Feb 2012	12:04	CCV 120203		120203Arev	1.
11	03 Feb 2012	12:11	CCB 120203		120203Arev	1.
12	03 Feb 2012	12:17	LDR 1000ppb 120203		120203Arev	1.
13	03 Feb 2012	12:24	LDR 500ppb 120203		120203Arev	1.
14	03 Feb 2012	12:37	ICSA 120203		120203Arev	1.
15	03 Feb 2012	12:44	ICSAB 120203		120203Arev	1.
26	03 Feb 2012	14:11	CCV 120203		120203Arev	1.
27	03 Feb 2012	14:24	CCB 120203		120203Arev	1.
33	03 Feb 2012	15:07	120131A-3015-BLK		120203Arev	1.
37	03 Feb 2012	15:34	120131A-3015-LCS		120203Arev	1.
39	03 Feb 2012	15:48	CCV 120203		120203Arev	1.
40	03 Feb 2012	16:01	CCB 120203		120203Arev	1.
52	03 Feb 2012	17:21	CCV 120203		120203Arev	1.
53	03 Feb 2012	17:35	CCB 120203		120203Arev	1.
56	03 Feb 2012	17:55	AY53807W16		120203Arev	1.
57	03 Feb 2012	18:02	AY53807W15 MS		120203Arev	1.
58	03 Feb 2012	18:09	AY53807W15 MSD		120203Arev	1.
59	03 Feb 2012	18:15	AY53807W16-A		120203Arev	1.
60	03 Feb 2012	18:22	AY53807W16-1/5		120203Arev	5.
61	03 Feb 2012	18:29	AY53808W08		120203Arev	1.
65	03 Feb 2012	18:56	CCV 120203		120203Arev	1.
66	03 Feb 2012	19:09	CCB 120203		120203Arev	1.

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

March 1, 2012

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

Attn: Max Solmssen

Title: Report of Data: Case 66864

Project: Red Hill/1022-015

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

Dear Mr. Solmssen:

Samples were received February 2, 2012, in good condition. Written results for the requested analyses are provided on this March 1, 2012.

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.

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/sdm
Enclosure
cc: File

Number of pages in this report: 369

Data Validation Package
for
LTM Red Hill Bulk Fuel Storage Facility

SDG 66864

TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

SAMPLE RECEIPT INFORMATION

Sample receipt information

ARF: 66864

Project: Red Hill/1022-015

Sample Receipt Information:

The samples were received on February 2, 2012, at 2.0°C. The samples were assigned Analytical Request Form (ARF) number 66864. The sample numbers and requested analysis were compared to the chains of custody and email communications. No exception was encountered.

Sample Table1

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
ES062	AY54074	WATER	02/01/12	02/02/12
ES063	AY54075	WATER	02/01/12	02/02/12
TRIP BLANK	AY54076	WATER	02/01/12	02/02/12

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

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

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

Measurement uncertainty can be reported upon request.

CASE NARRATIVE

EPA Method 8015B

Total Petroleum Hydrocarbons – Diesel

Sample Preparation:

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

Sample Analysis Information:

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

Quality Control/Assurance

Calibrations:

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

Blanks:

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

Spikes:

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

No sample was designated by the client for MS/MSD analysis.

Surrogates:

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

Summary:

No 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 by the client for MS/MSD analysis

Surrogates

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

Tuning:

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

Internal Standards

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

Summary:

No problem was encountered.

EPA Method 8260B
Volatile Organic Analysis

Sample Preparation:

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

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector. All holding times were met. The samples were received in unpreserved vials; they were analyzed within seven days of collection. Manual integration for gasoline was performed on, the samples, the LCS, the method blank, the second-source 0125C38W.D, the continuing calibration 0203C07W.D, and on every calibration point used to make the gasoline calibration curve. The integration was performed due to the computer integration not following the baseline. Chromatograms of before and after manual integration are enclosed. Manual integrations were performed in accordance with APPL's SOP and a summary of manual integrations performed on the gasoline is included in the QC Summary section of the report.

Quality Control/Assurance:

Calibrations:

Initial and continuing calibrations were performed according to the method. All system performance check compounds and calibration check compounds met DoD acceptance criteria. All calibration criteria were met.

Blanks:

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

Spikes:

A Laboratory Control Spike (LCS) was used for quality assurance. A second-source standard was used for the LCS. All LCS and second-source 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 method 3015. Samples ES062 and ES063 were preserved in the laboratory. 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 ES063 was designated by the laboratory for MS/MSD analysis. The MS/MSD, PDS, and DT met all acceptance criteria.

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 66864

Client: **Environet, Inc.**
Address: **650 Iwilei Rd, #204**
Honolulu, HI 96817
Attn: **Max Solmssen**
Phone: **808-833-2225** Fax: **808-833-2231**
Job: **RED HILL/1022-015**
PO #: **1022-015**
Chain of Custody (Y/N): **Y** # **37642**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **2 WEEKS**

Received by: **TBV**
Date Received: **02/02/12** Time: **11:50**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **N** Time Zone:
Chest Temp(s): **2.0°C**
Color: **VOA,B-RED,R-ORYELL**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Cynthia Clark**
QC Report Type: **DVP4/ADRDOD/HI**
Due Date: **02/16/12**

Comments:
14 day TAT for Form 1s & 30 day TAT for full package.
OSDas@, MSolmssen@ & 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 OSDas@ VDupra@ & MSolmssen@environetinc.com
metals 6020: report Lead with 0.5ug/L RL
TPH-Diesel only; VOCs: include gasoline by 8260B

Sample Distribution: 2 18
GC: 2-$SIMHC12W, 2-$TPETD2
Extractions: 2-_SEP004S, 2-_SEP011
VOA: 3-$86RHBF 2-10
Metals: 2-$602D(Pb) 2-8
Other: 2-_M3015

Charges:

Invoice To:
same

Client ID	APPL ID	Sampled	Analyses Requested
1. ES062	AY54074W	02/01/12 09:30	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- un-preserved VOA vials
2. ES063	AY54075W	02/01/12 10:45	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- un-preserved VOA vials
3. TRIP BLANK	AY54076W	02/01/12 00:01	$86RHBF -- un-preserved VOA vials

APPL Sample Receipt Form

ARF# **66864**

Sample	Container Type	Count	pH
AY54074	[2] PL 500mL	1	NA
	[15] VOAs - NP	3	NA
	[17] Amber Liter	4	NA
AY54075	[2] PL 500mL	1	NA
	[15] VOAs - NP	3	NA
	[17] Amber Liter	4	NA
AY54076	[15] VOAs - NP	3	NA

Sample	Container Type	Count	pH

66864
20

CHAIN OF CUSTODY RECORD

C.O.C. 37642

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
Phone: (559) 275-2175
Fax: (559) 275-4422

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: Environet, Inc. Phone: 808-833-2225	Company Name: Environet, INC. Phone: 808-833-2225
Address: 1050 Iwilei Rd, Suite 204 Honolulu, HI 96817 Fax:	Address: 1050 Iwilei RD Suite 204 Honolulu, HI 96817 Fax:
Attn: Vilma Dupra	Attn: Accounts Payable

Project Name/Number	Sampler (Print)
Red Hill 1022-015	Max Solmssen
Purchase Order Number	Sampler (Signature)
	Vilma R Sol

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Matrix: Sed.	Matrix: Soil	Analysis Requested/Method Number: TPH-GRO	VOCs	TPH-DRO	PAHs	* dissolved lead	Date Shipped: 2/1/12
ES062	Red Hill	2/1/12	9:30	HST	8	X			X	X	X	X	X	Carrier: Fedex
ES063	↓	↓	10:45	↓	↓	↓			↓	↓	↓	↓	↓	Waybill No.: 874806716
trip blank									↓	↓				Comments: * lead samples were field filtered. All samples[15] one unpreserved.

Shuttle Temperature:

Turnaround Requested: Check one
☑ Standard 2-3wk ☐ One week ☐ 24/48 Hrs. ☐ Other

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

Relinquished by sampler: MS	Date 2/1/12	Time 13:30	Received by:
Relinquished by:	Date	Time	Received by:

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date 2/2/12	Time 1100	Received at lab by:

White: Return to client with report Yellow: Laboratory Copy Pink: Sampler

See reverse side for Container Preservative and Sampling Information

COOLER RECEIPT FORM

1) Project: LTM Red Hill Bulk Fuel Storage Facility Date Received: 2/2/12

2) Coolers: Number of Coolers: 1

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

4) YES (NO) Were custody seals on outside of cooler? How many?_____ Date on seal? _____

5) Name on seal? _____

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) 8748 0067 1645 2) _____ 3) _____

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

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

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

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

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

14) Serial number of certified NIST thermometer used: 43926 7 Correction factor: 0

15) Cooler temp(s): 1) 2.0c 2) _____ 3) _____ 4) _____ 5) _____ 6) _____ 7) _____ 8) _____

Chain of custody:

16) (YES) NO Was a chain of custody received?

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

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

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

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

Sample Labels:

21) (YES) NO Were container labels in good condition?

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

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

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

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

Sample Containers:

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

27) (YES) NO Did all containers arrive unbroken?

28) YES (NO) Was there any leakage from samples?

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

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

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

32) YES (NO) NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:

Larger than a pea: _____

Smaller than a pea: _____

Preservation & Hold time:

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

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

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

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

37) (YES) NO NA Unpreserved VOA Vials received? _____

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

Lab notified if pH was not adequate: Metal preserved 2-2-12

Deficiencies: _____

Signature of personnel receiving samples: _____ Second reviewer: _____

Signature of project manager notified: _____ Date and Time of notification: _____

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

Information given to client: _____

_____ by whom (Initials): _____

EPA 8015 Modified
Total Petroleum Hydrocarbons

EPA 8015 Modified
Total Petroleum Hydrocarbons
QC Summary

Method Blank
TPH Diesel Water

Blank Name/QCG: **120206W-54074 - 163991**
Batch ID: #TPETD-120206A

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	02/06/12	02/13/12
BLANK	SURROGATE: OCTACOSANE (S)	83.8	28-142			%	02/06/12	02/13/12
BLANK	SURROGATE: ORTHO-TERPHEN	63.6	57-132			%	02/06/12	02/13/12

Quant Method: TPH0210.M
Run #: 210088
Instrument: Apollo
Sequence: 120210
Initials: LA

GC SC-Blank-REG MDLs
Printed: 03/01/12 8:56:25 AM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66864

Case No: 66864 Date Analyzed: 02/13/12

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120206A-BLK	Blank	28-142	83.8		57-132	63.6	
120206A-LCS	Lab Control Spike	28-142	84.0		57-132	79.3	
AY54074	ES062	28-142	90.6		57-132	67.5	
AY54075	ES063	28-142	88.7		57-132	68.2	

Comments: Batch: #TPETD-120206A

Laboratory Control Spike Recovery

TPH Diesel Water

APPL ID: **120206W-54074 LCS - 163991**
Batch ID: #TPETD-120206A

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	1360	68.0	61-143
SURROGATE: OCTACOSANE (S)	150	126	84.0	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	119	79.3	57-132

Comments: _____

Primary	SPK
Quant Method :	TPH0210.M
Extraction Date :	02/06/12
Analysis Date :	02/13/12
Instrument :	Apollo
Run :	210089
Initials :	LA

Printed: 03/01/12 8:56:16 AM

APPL Standard LCS

EPA 8015B-e

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66864

Case No: 66864 Date Analyzed: 02/13/12

Matrix: WATER Instrument: Apollo

Blank ID: 120206A-BLK Time Analyzed: 1820

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120206A-BLK	Blank	210088	02/13/12 1820
120206A-LCS	Lab Control Spike	210089	02/13/12 1844
AY54074	ES062	210091	02/13/12 1931
AY54075	ES063	210092	02/13/12 1955

Comments: Batch: #TPETD-120206A

EPA 8015 Modified
Total Petroleum Hydrocarbons
Sample Data

TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen

Project: RED HILL/1022-015

ARF: 66864

Sample ID: ES062

APPL ID: AY54074

Sample Collection Date: 02/01/12

QCG: #TPETD-120206A-163991

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	02/06/12	02/13/12
EPA 8015B-	SURROGATE: OCTACOSANE (S)	90.6	28-142			%	02/06/12	02/13/12
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	67.5	57-132			%	02/06/12	02/13/12

Quant Method:	TPH0210.M
Run #:	210091
Instrument:	Apollo
Sequence:	120210
Dilution Factor:	1
Initials:	LA

Printed: 03/01/12 8:56:20 AM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120210\210091.D Vial: 91
Acq On : 2-13-12 19:31:24 Operator: LAC
Sample : AY54074W07 5/1020 Inst : Apollo
Misc : Water Multiplr: 4.90
IntFile : events.e
Quant Time: Feb 17 9:24 2012 Quant Results File: TPH0210.RES

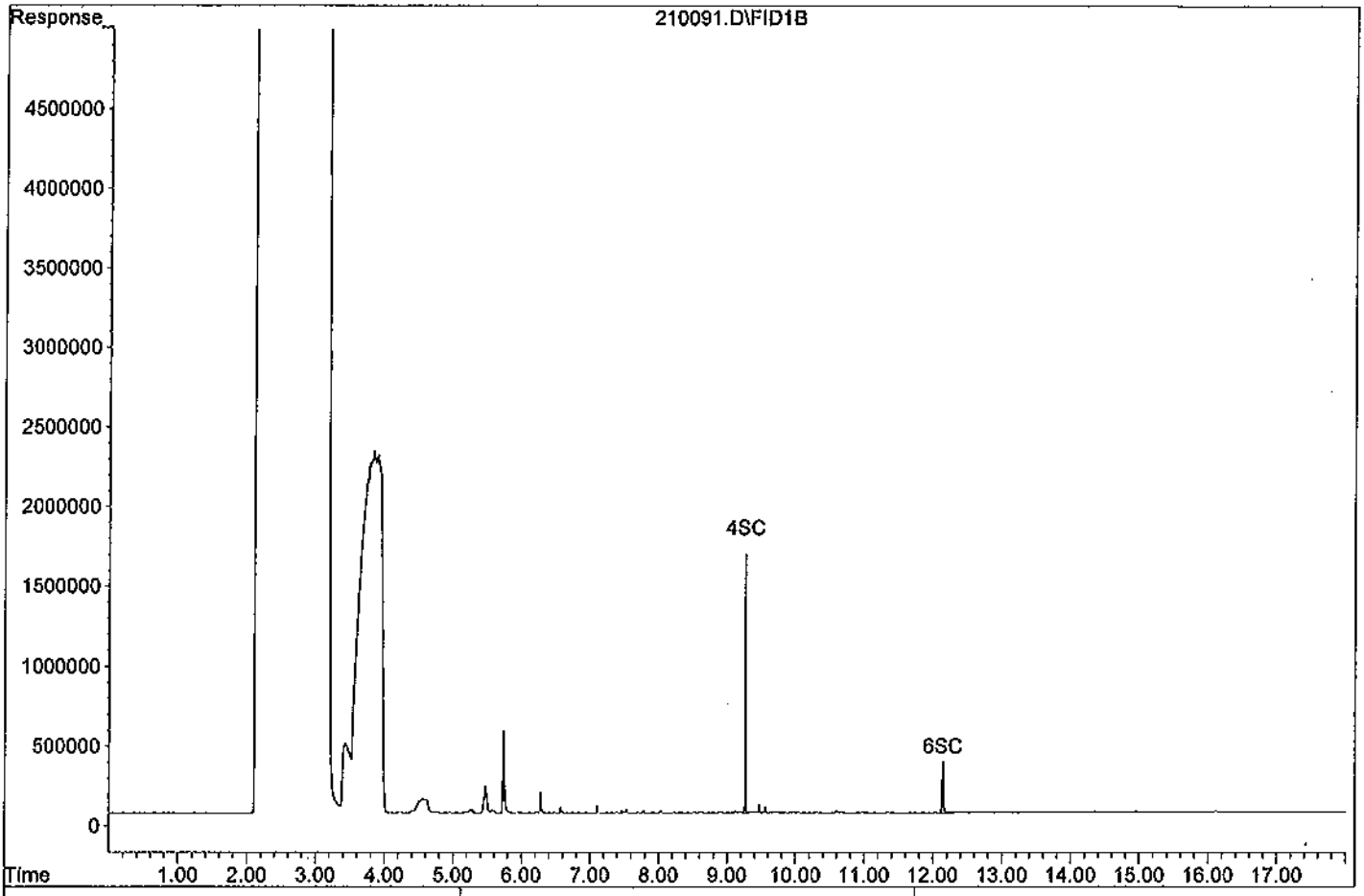
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

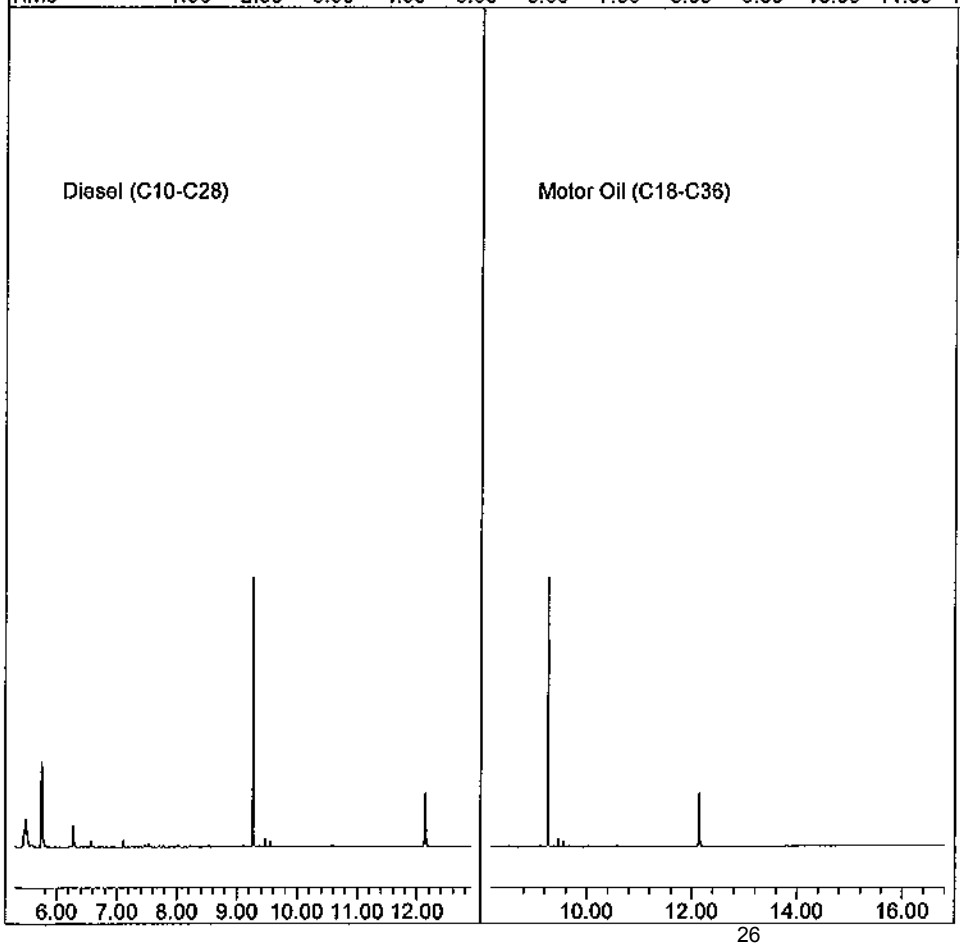
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.26	10237788	99.277 ppb
Surrogate Spike 147.059		Recovery =	67.51%
6) SC Octacosane(S)	12.14	4469184	133.240 ppb
Surrogate Spike 147.059		Recovery =	90.60%
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\120210\210091.D
Sample : AY54074W07 5/1020





TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen

Project: RED HILL/1022-015

ARF: 66864

Sample ID: ES063

APPL ID: AY54075

Sample Collection Date: 02/01/12

QCG: #TPETD-120206A-163991

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	02/06/12	02/13/12
EPA 8015B-	SURROGATE: OCTACOSANE (S)	88.7	28-142			%	02/06/12	02/13/12
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	68.2	57-132			%	02/06/12	02/13/12

Quant Method:	TPH0210.M
Run #:	210092
Instrument:	Apollo
Sequence:	120210
Dilution Factor:	1
Initials:	LA

Printed: 03/01/12 8:56:20 AM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120210\210092.D Vial: 92
Acq On : 2-13-12 19:55:03 Operator: LAC
Sample : AY54075W07 5/1020 Inst : Apollo
Misc : Water Multiplr: 4.90
IntFile : events.e
Quant Time: Feb 17 9:24 2012 Quant Results File: TPH0210.RES

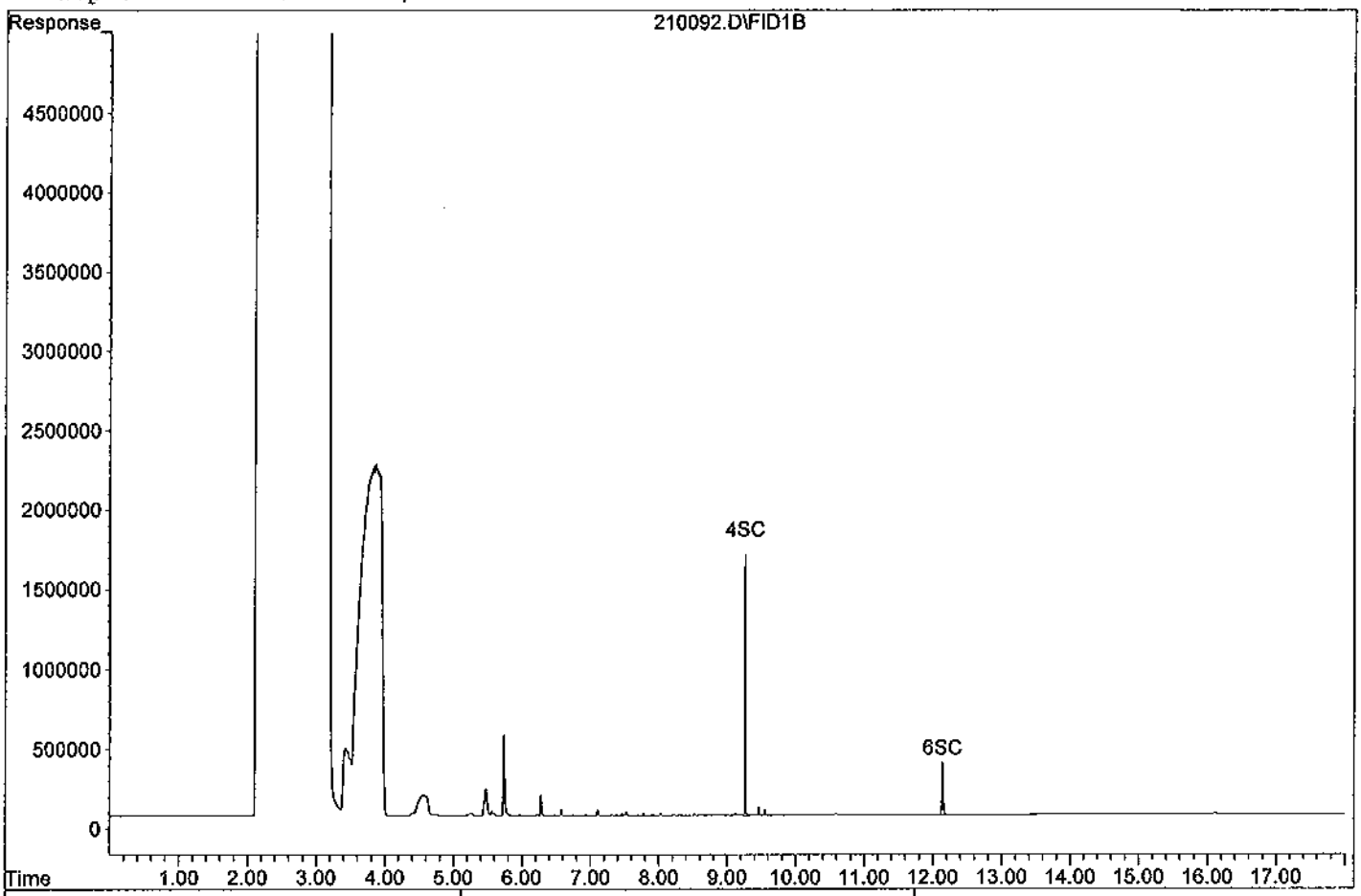
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

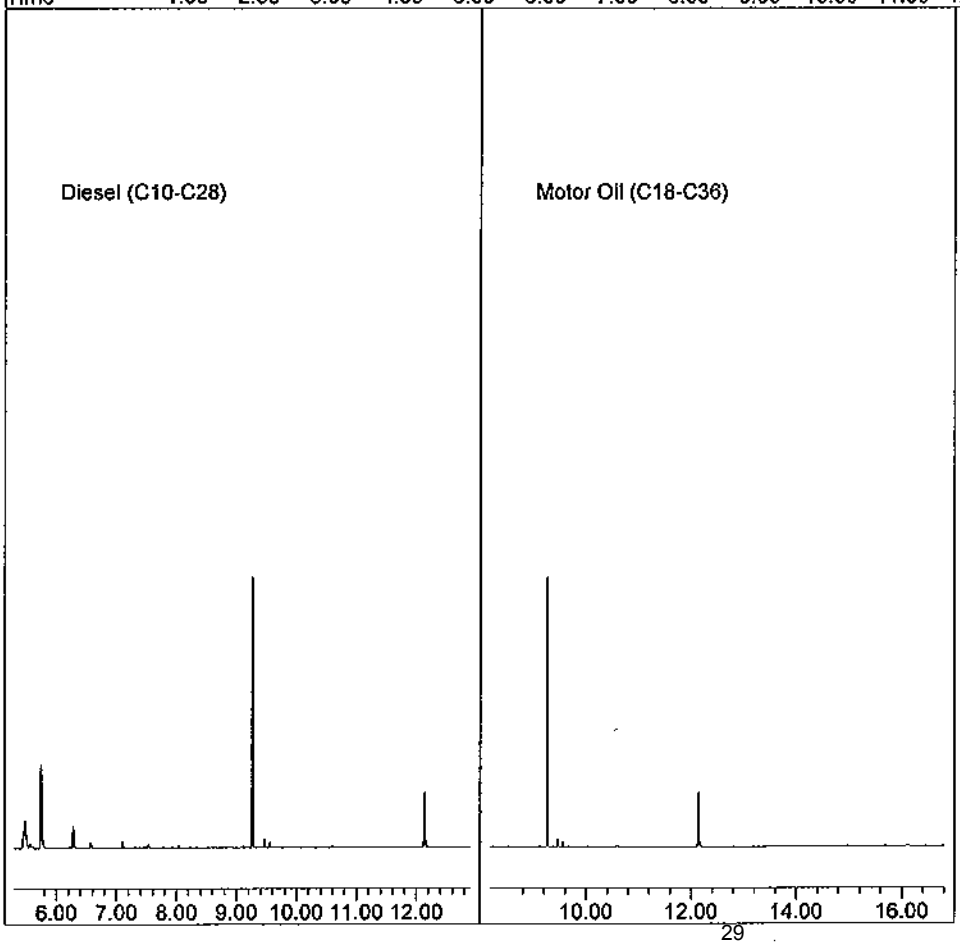
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.26	10342889	100.296 ppb
Surrogate Spike 147.059		Recovery =	68.20%
6) SC Octacosane(S)	12.14	4377289	130.500 ppb
Surrogate Spike 147.059		Recovery =	88.74%
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\120210\210092.D
Sample : AY54075W07 5/1020





EPA 8015 Modified
Total Petroleum Hydrocarbons

Calibration Data

TPH Extractables
TPH0210

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66864
Case No: Initial Cal. Date: 02/10/12
Matrix: Instrument: Apollo
Initials: LAC

210004.D 210005.D 210006.D 210007.D 210008.D 210009.D
210011.D 210012.D 210013.D 210014.D 210015.D 210016.D
210018.D 210019.D 210020.D 210021.D 210022.D

		Compound	1	2	3	4	5	6					Avg	%RSD		
1	HATML	Diesel (C10-C28)	324780	189399	190755	190397	190034	191206					212762	26	HATML	1.000
2	HBTM	Motor Oil (C18-C36)	124825	73717	81097	85328	88995	95130					91515	20	HBTM	
3	SA	Not Used(S)	245462	292978	245280	247826	251734	317427					266784	12	SA	
4	SC	Ortho-Terphenyl(S)		249473	252733	253761	242341	265465					252755	3.3	SC	
5	SA	Not Used2(S)	69407	65182	68155	70028	68157	70173					68517	2.7	SA	
6	SC	Octacosane(S)		78636	81622	81722	80821	88256					82212	4.4	SC	
7																
8																
9																
10																
11																
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35																

1.9217152

Quantitation Report (Not Reviewed)

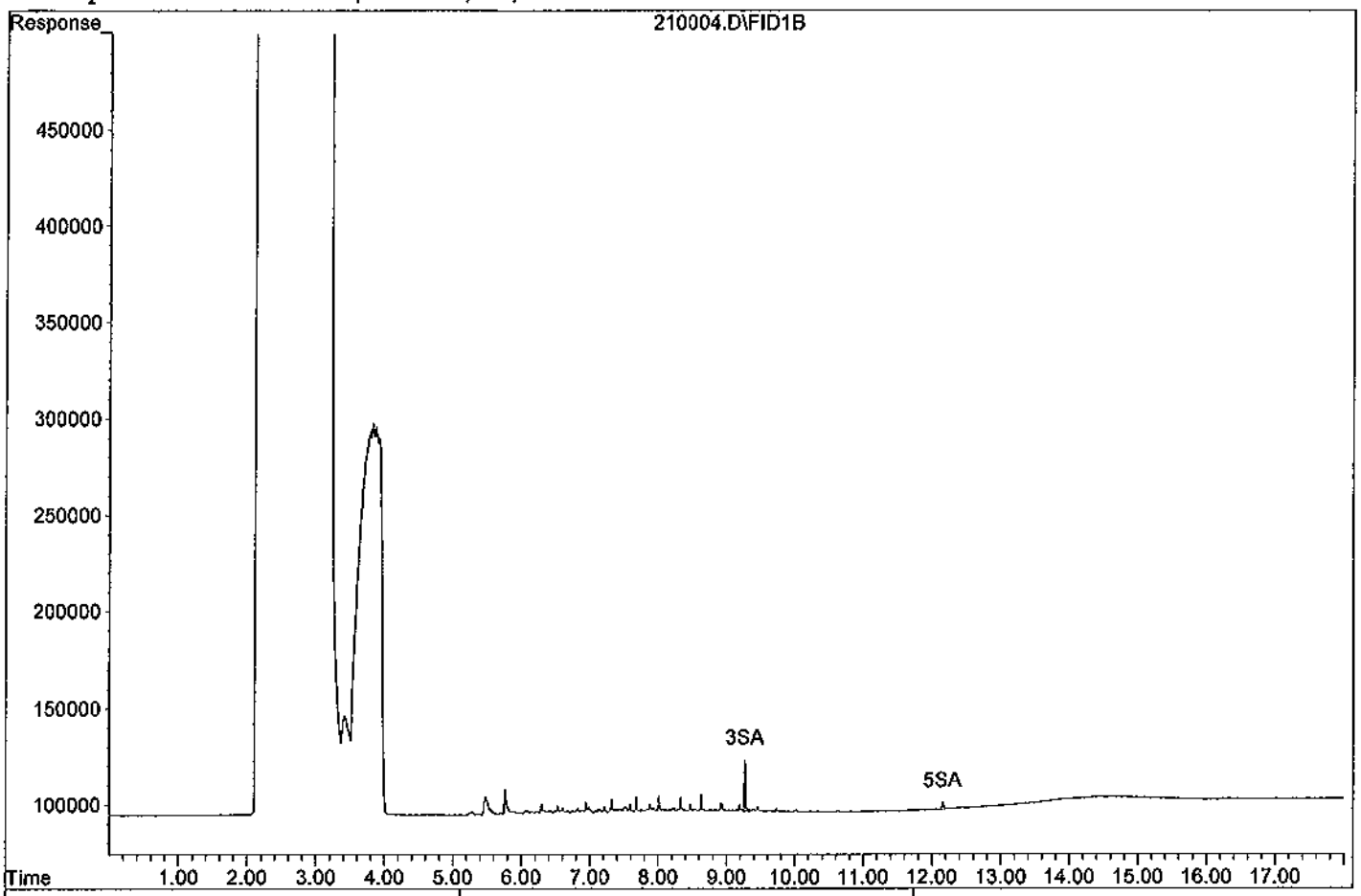
Data File : G:\APOLLO\DATA\120210\210004.D Vial: 4
Acq On : 2-10-12 15:49:00 Operator: LAC
Sample : DIESEL 10/1000 2/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 8:38 2012 Quant Results File: TPH0210.RES

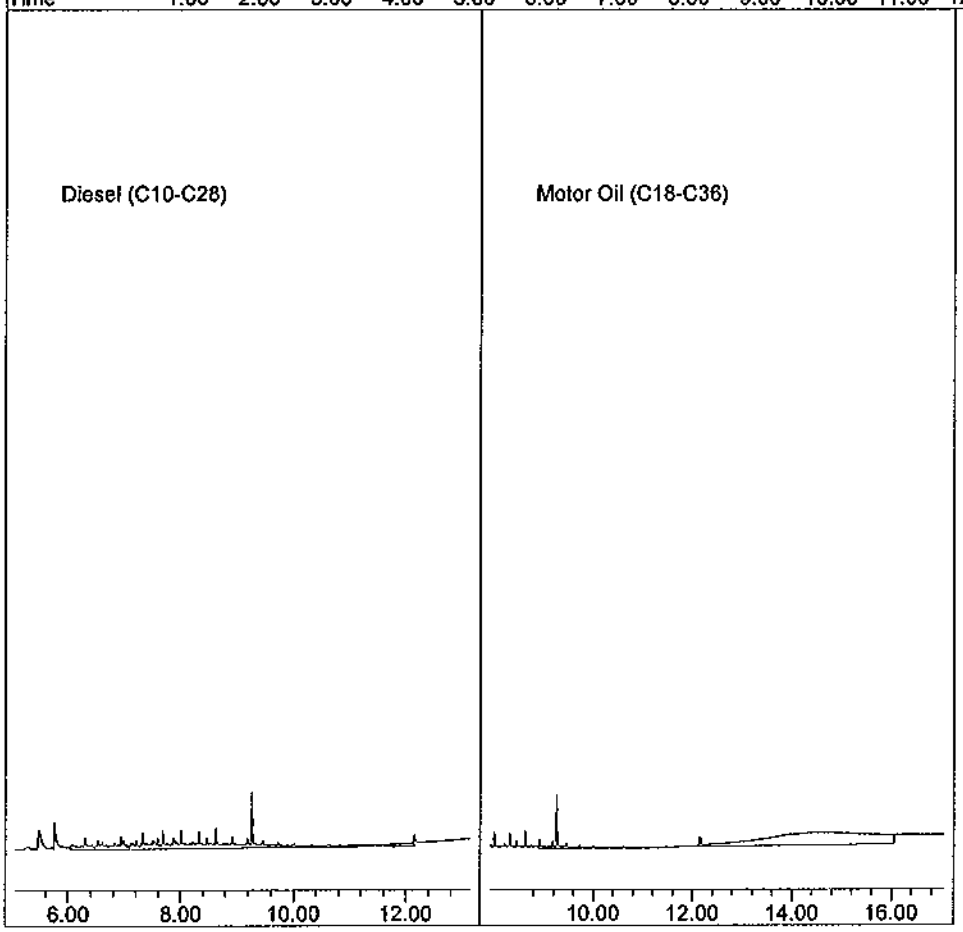
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.27	245462	0.500 ppb
Surrogate Spike 30.000	Recovery	=	1.67%
5) SA Not Used2(S)	12.16	69407	0.500 ppb
Surrogate Spike 30.000	Recovery	=	1.67%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	6495596	10.000 ppb

Data File: G:\APOLLO\DATA\120210\210004.D
Sample : DIESEL 10/1000 2/10/12





Quantitation Report (QT Reviewed)

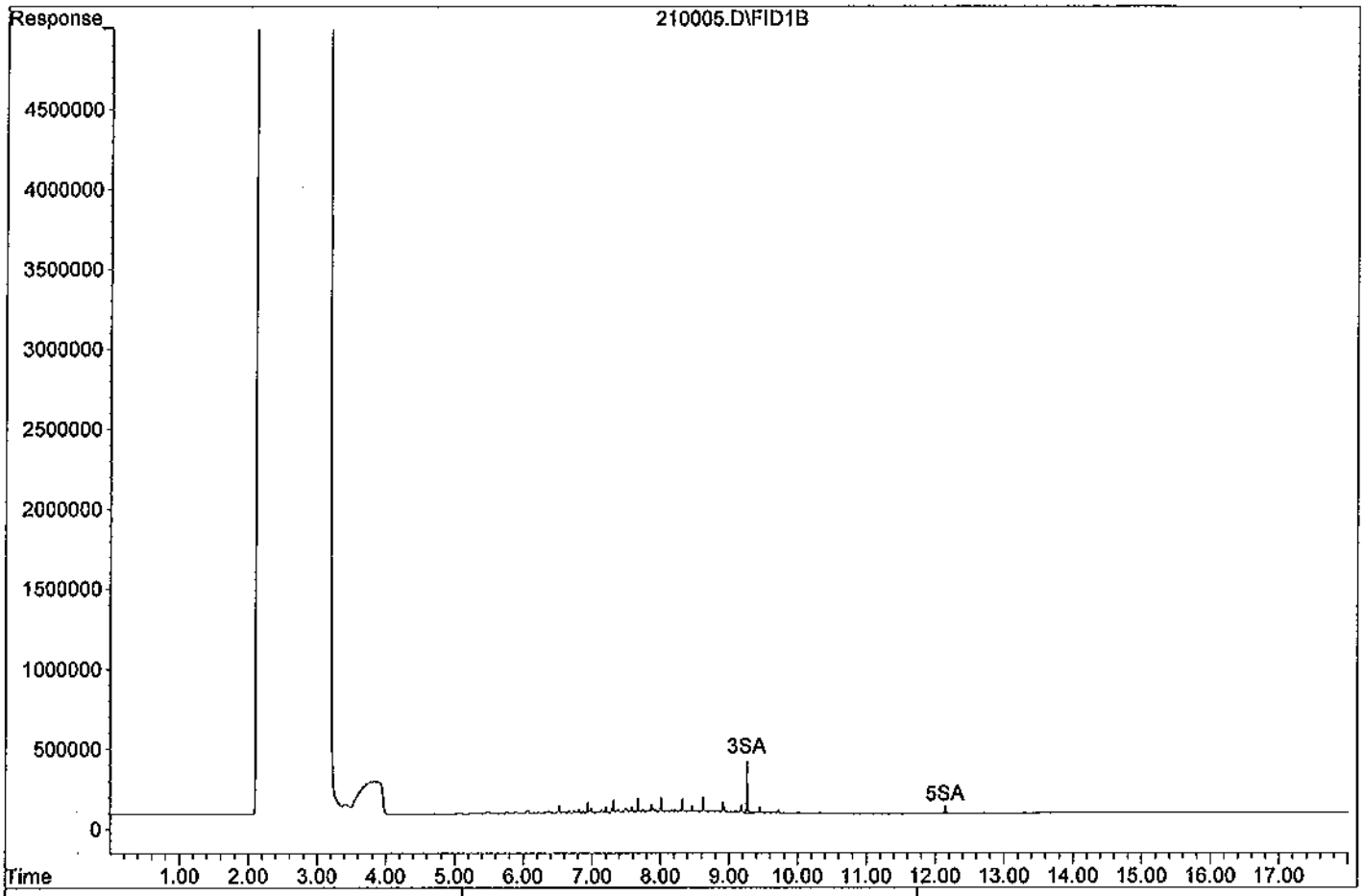
Data File : G:\APOLLO\DATA\120210\210005.D Vial: 5
Acq On : 2-10-12 16:13:08 Operator: LAC
Sample : DIESEL 100/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:11 2012 Quant Results File: TPH2436.RES

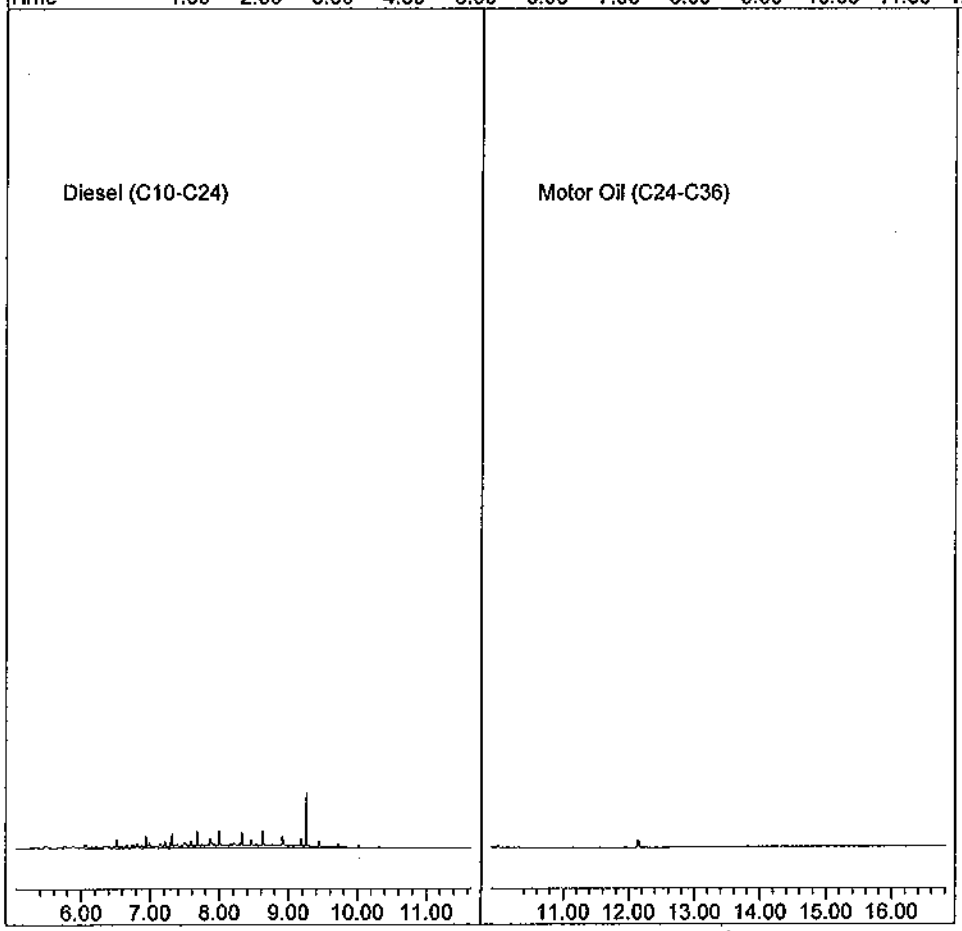
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.26	2929783	5.491 ppb
Surrogate Spike 30.000	Recovery =		18.30%
5) SA Not Used2(S)	12.15	651825	4.757 ppb
Surrogate Spike 30.000	Recovery =		15.86%
Target Compounds			
1) HATM Diesel (C10-C24)	8.35	37505589	93.185 ppb

Data File: G:\APOLLO\DATA\120210\210005.D
Sample : DIESEL 100/1000





Quantitation Report (QT Reviewed)

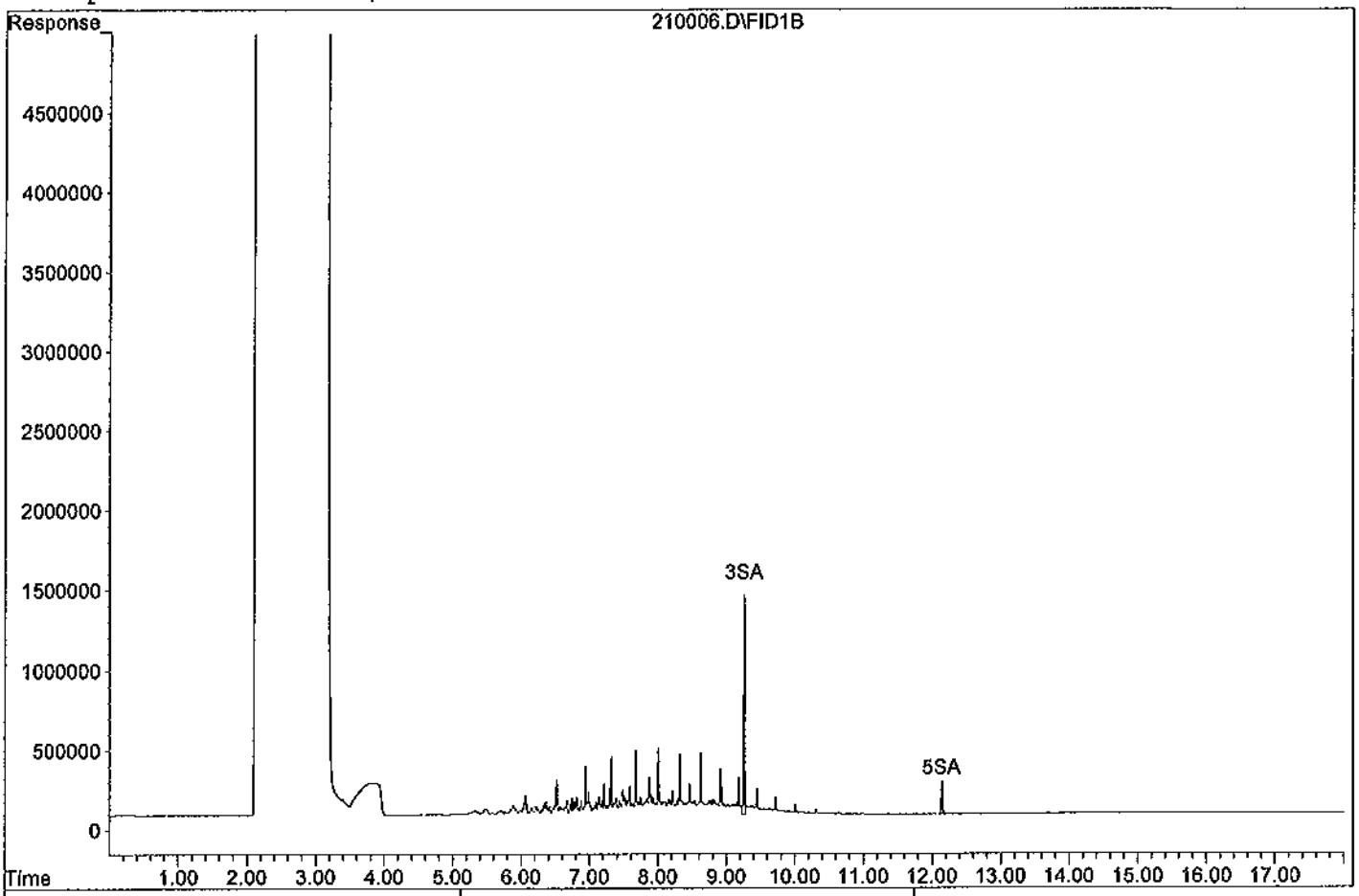
Data File : G:\APOLLO\DATA\120210\210006.D Vial: 6
Acq On : 2-10-12 16:37:20 Operator: LAC
Sample : DIESEL 400/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:11 2012 Quant Results File: TPH2436.RES

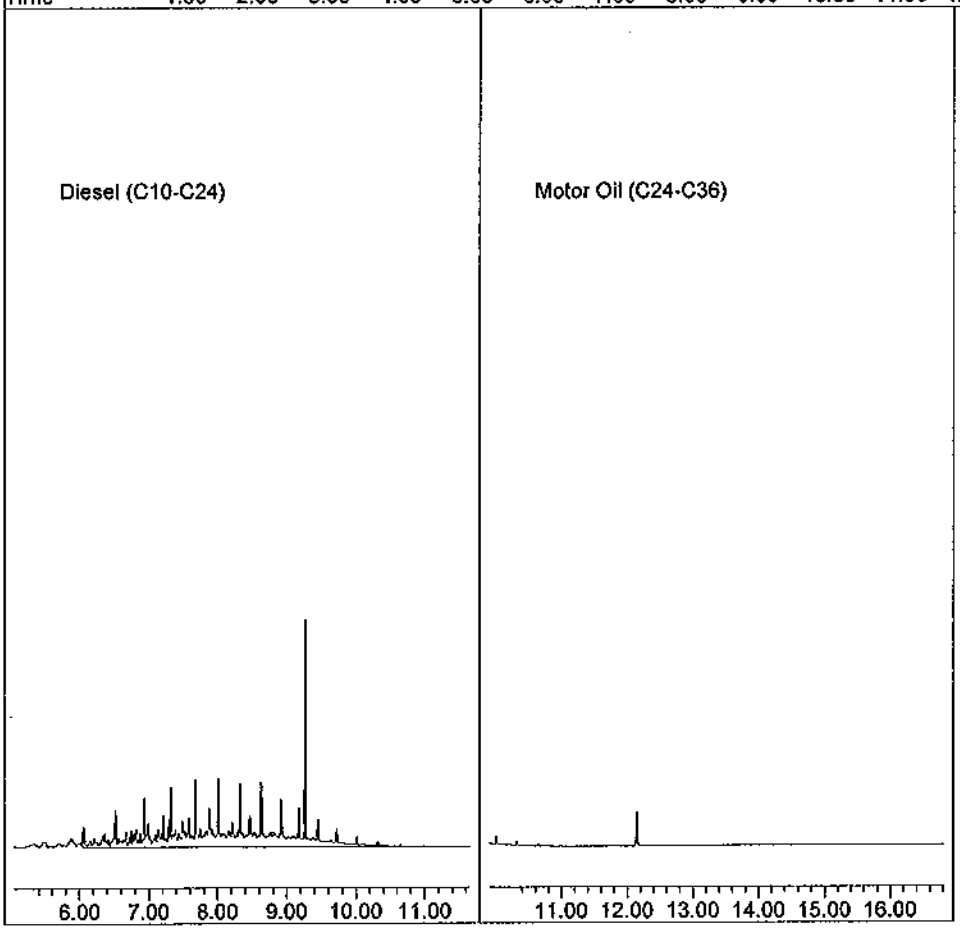
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.26	9811181	18.388 ppb
Surrogate Spike 30.000	Recovery =		61.29%
5) SA Not Used2(S)	12.14	2726187	19.894 ppb
Surrogate Spike 30.000	Recovery =		66.31%
Target Compounds			
1) HATM Diesel (C10-C24)	8.35	153806468	382.737 ppb

Data File: G:\APOLLO\DATA\120210\210006.D
Sample : DIESEL 400/1000





Quantitation Report (QT Reviewed)

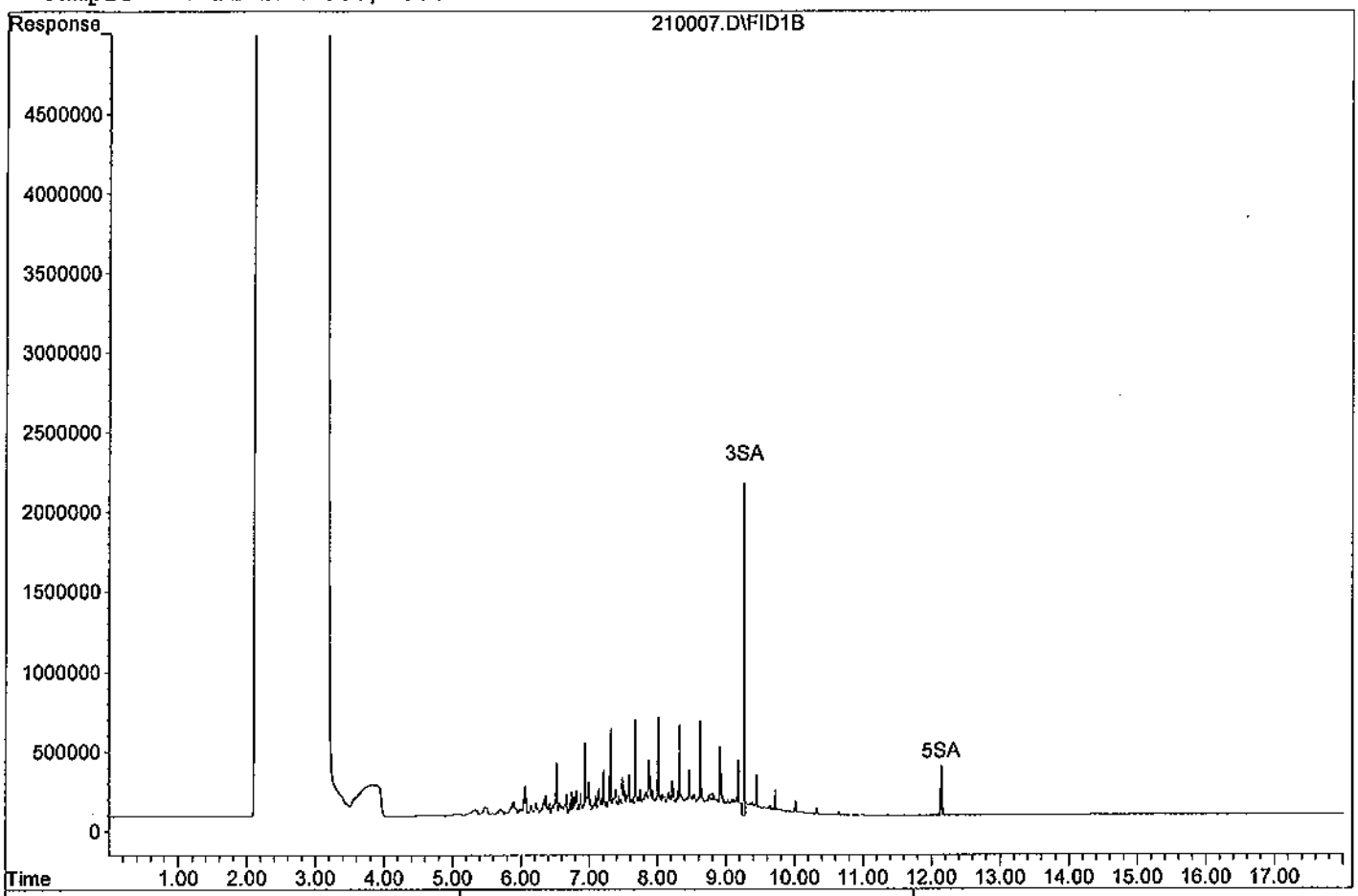
Data File : G:\APOLLO\DATA\120210\210007.D Vial: 7
Acq On : 2-10-12 17:01:40 Operator: LAC
Sample : DIESEL 600/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:12 2012 Quant Results File: TPH2436.RES

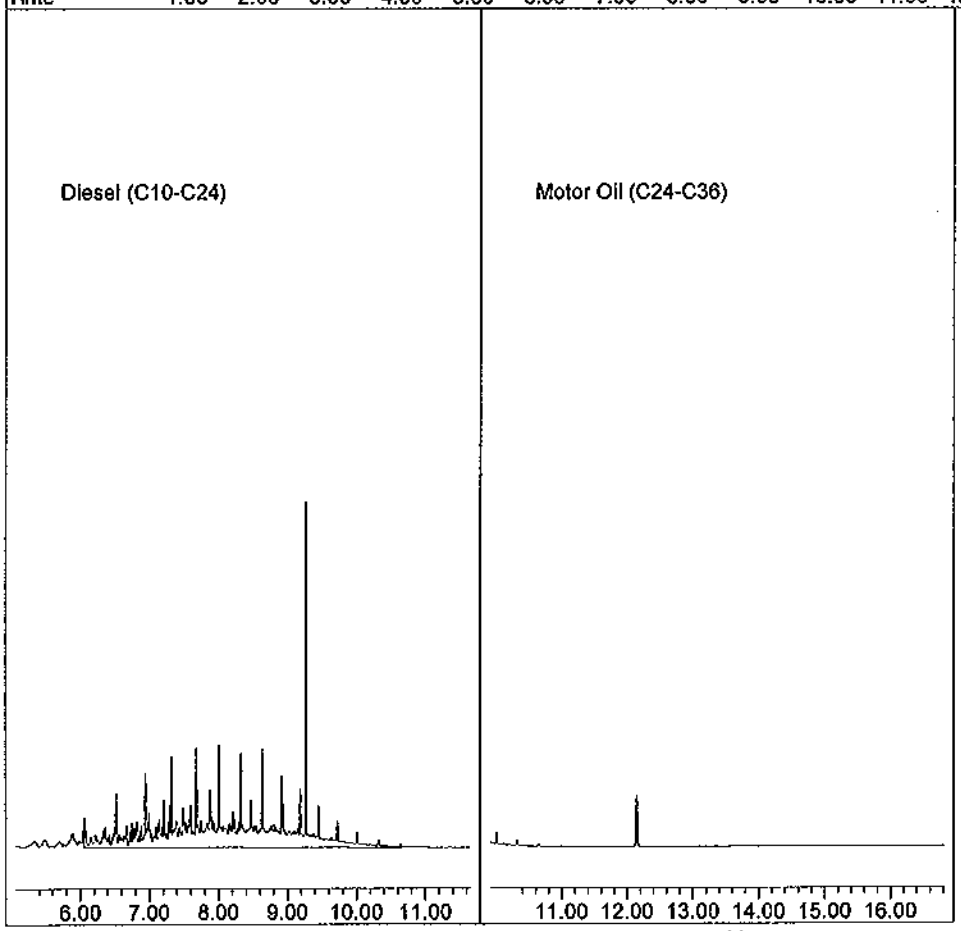
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Not Used(S)	9.26	14869538	27.868	ppb
Surrogate Spike 30.000	Recovery =		92.89%	
5) SA Not Used2(S)	12.14	4201651	30.661	ppb
Surrogate Spike 30.000	Recovery =		102.20%	
Target Compounds				
1) HATM Diesel (C10-C24)	8.35	230772645	573.547	ppb

Data File: G:\APOLLO\DATA\120210\210007.D
Sample : DIESEL 600/1000





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120210\210008.D Vial: 8
Acq On : 2-10-12 17:25:59 Operator: LAC
Sample : DIESEL 800/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:13 2012 Quant Results File: TPH2436.RES

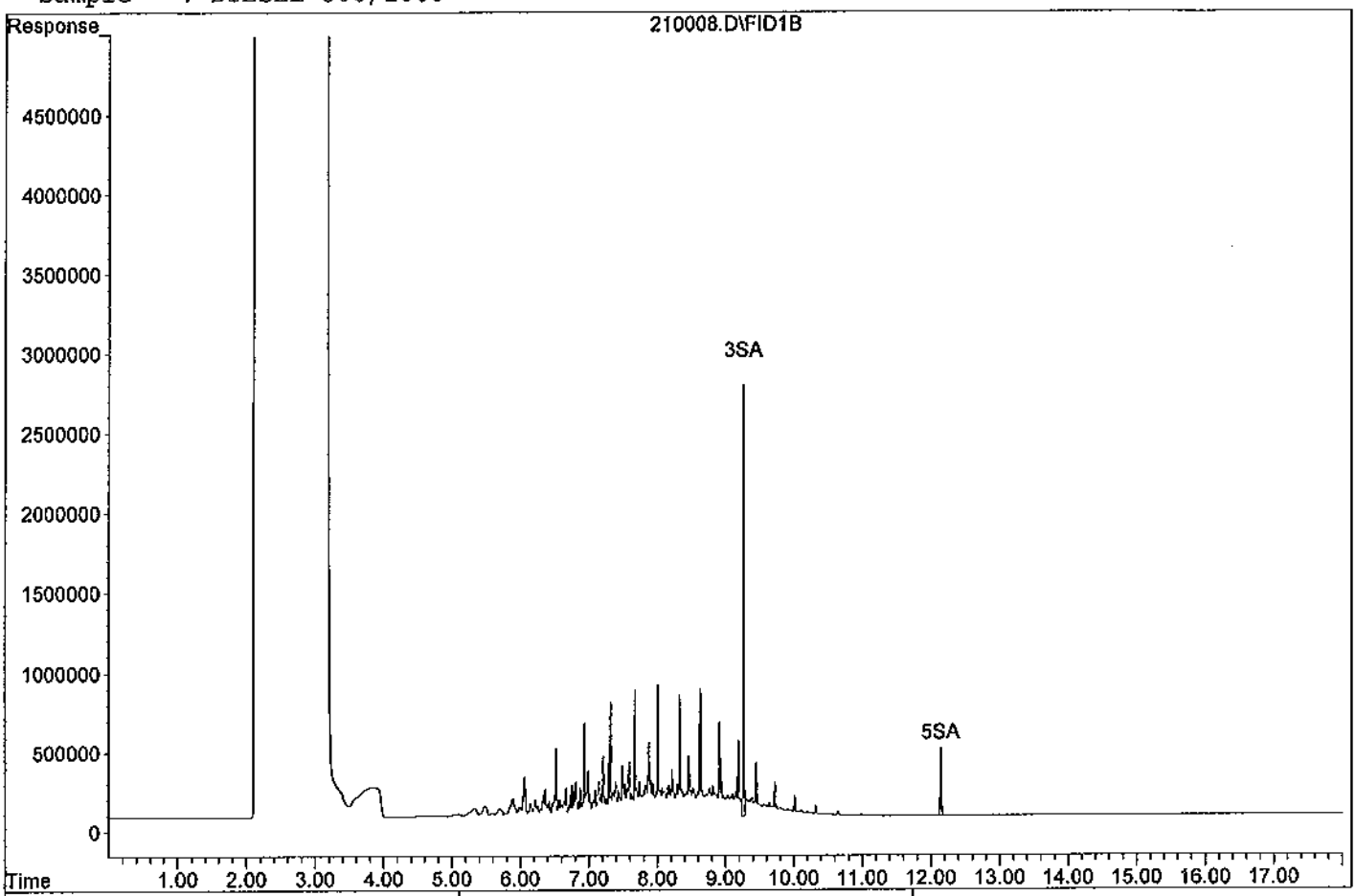
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

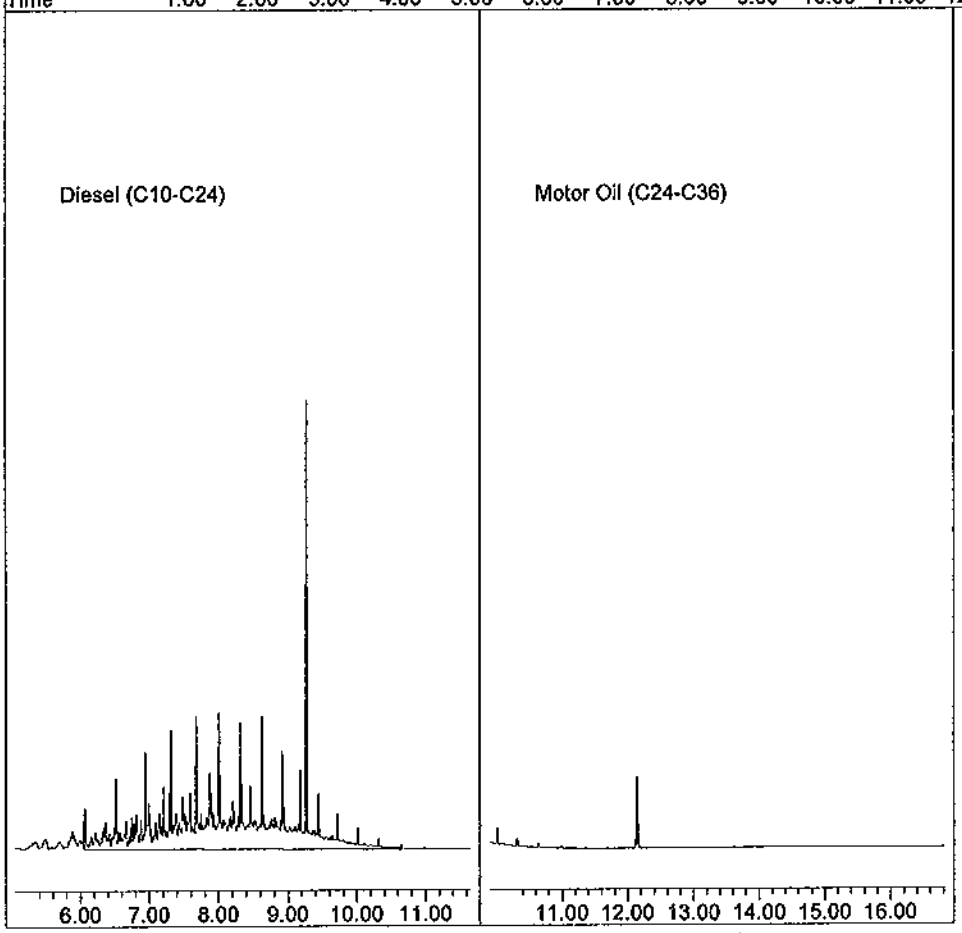
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Not Used(S)	9.26	20138733	37.743	ppb
Surrogate Spike 30.000	Recovery =		125.81%	
5) SA Not Used2(S)	12.14	5452587	39.790	ppb
Surrogate Spike 30.000	Recovery =		132.63%	
Target Compounds				
1) HATM Diesel (C10-C24)	8.35	306989379	761.763	ppb

Quantitation Report

Data File: G:\APOLLO\DATA\120210\210008.D
Sample : DIESEL 800/1000





Quantitation Report (QT Reviewed)

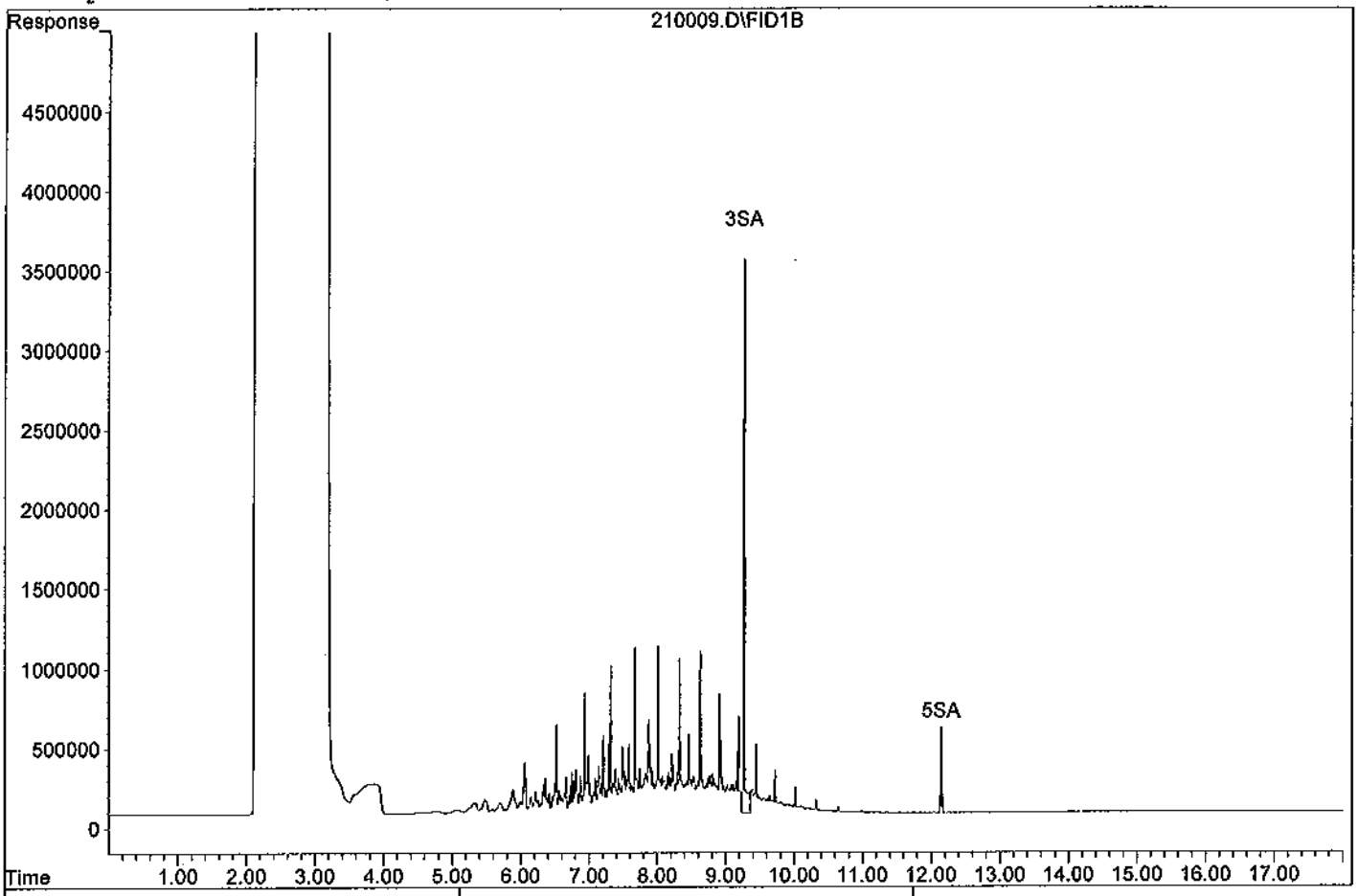
Data File : G:\APOLLO\DATA\120210\210009.D Vial: 9
Acq On : 2-10-12 17:50:15 Operator: LAC
Sample : DIESEL 1000/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:14 2012 Quant Results File: TPH2436.RES

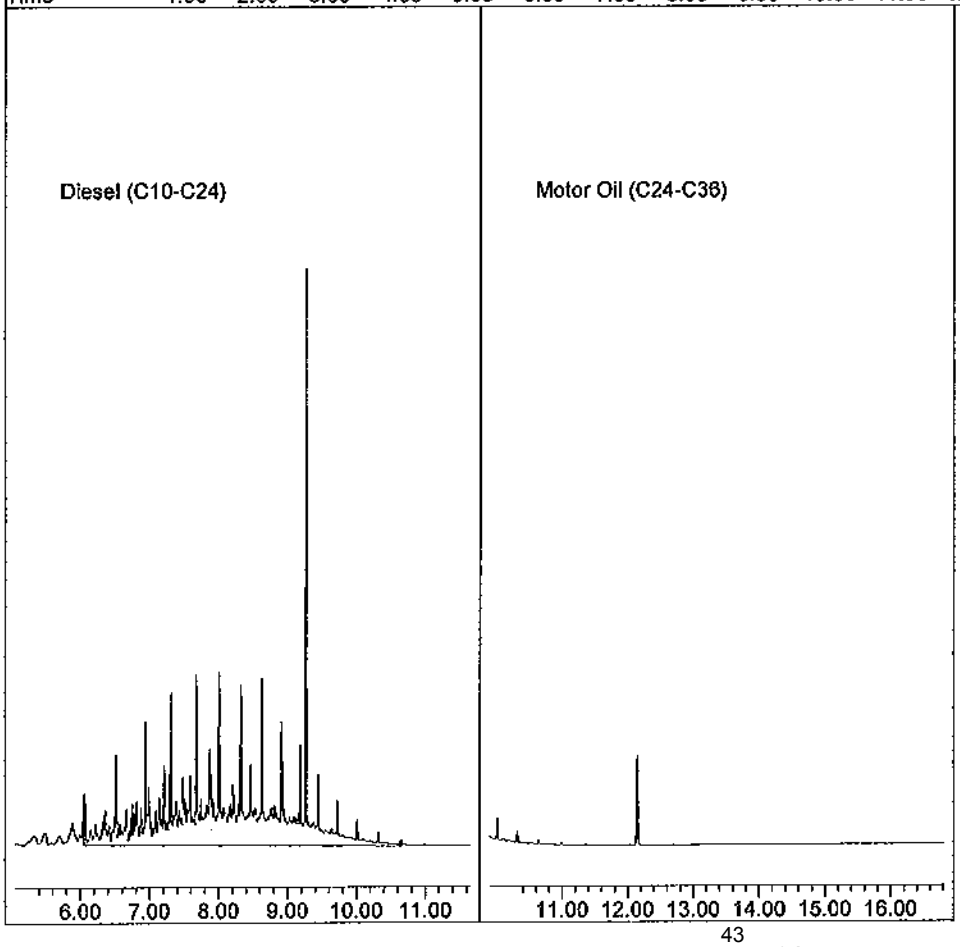
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.27	31742679	59.491 ppb
Surrogate Spike 30.000	Recovery =		198.30%
5) SA Not Used2(S)	12.14	7017310	51.209 ppb
Surrogate Spike 30.000	Recovery =		170.70%
Target Compounds			
1) HATM Diesel (C10-C24)	8.35	386741275	958.205 ppb

Data File: G:\APOLLO\DATA\120210\210009.D
Sample : DIESEL 1000/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120210\210017.D Vial: 17
Acq On : 2-10-12 21:02:12 Operator: LAC
Sample : THC SURR 50/1000 2/10/12 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:22 2012 Quant Results File: TPH2436.RES

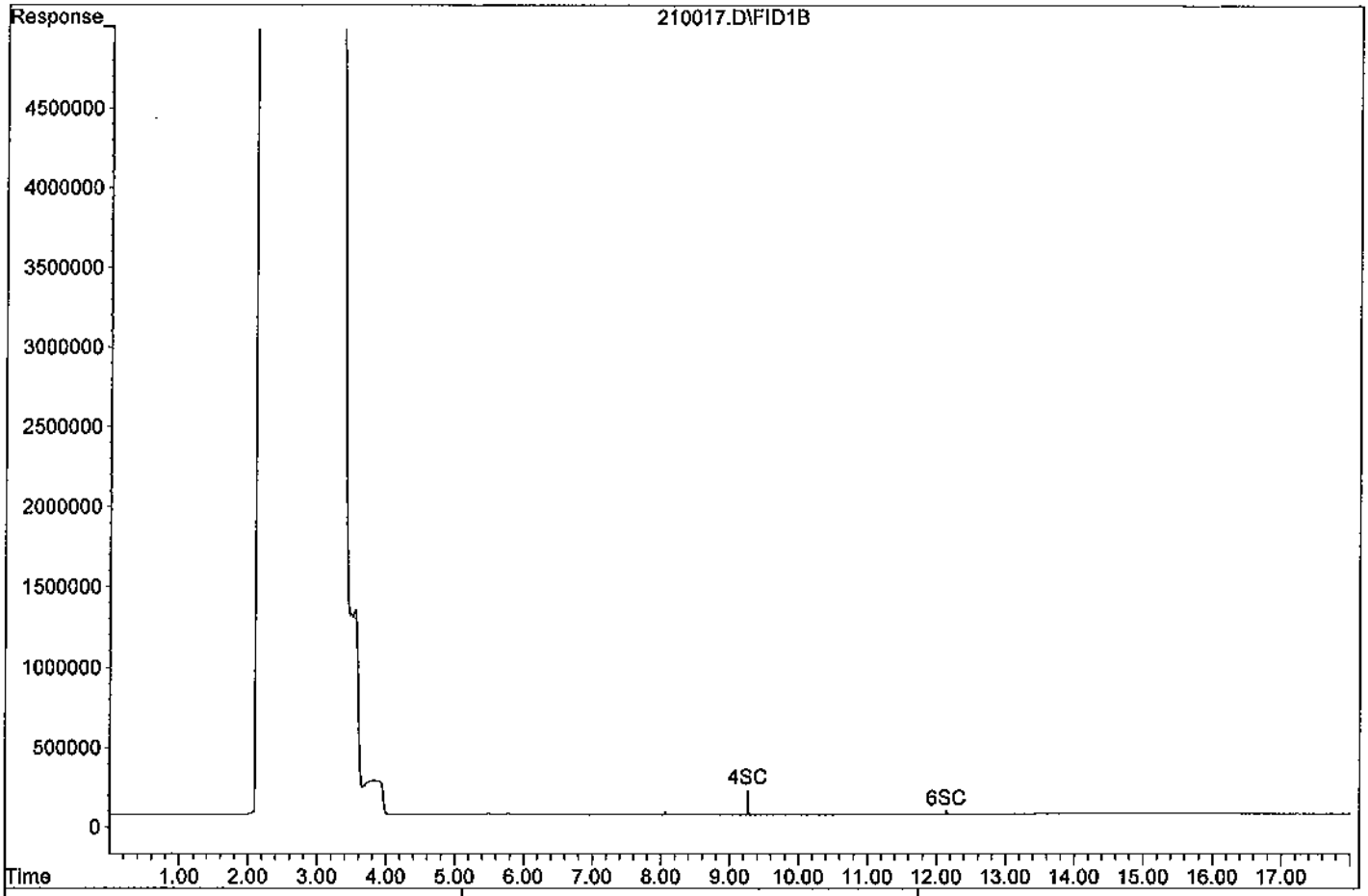
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

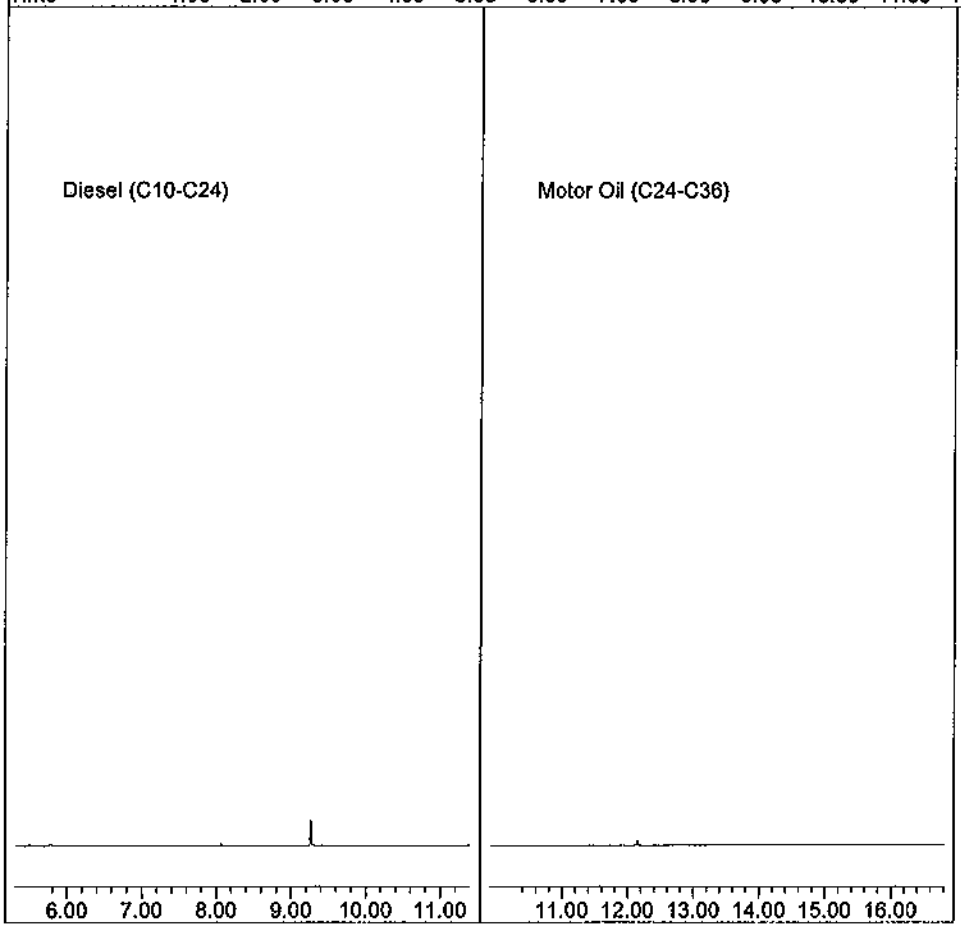
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.26	1325637	2.622 ppb
Surrogate Spike 30.000	Recovery	=	8.74%
6) SC Octacosane(S)	12.14	402803	2.450 ppb
Surrogate Spike 30.000	Recovery	=	8.17%
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\120210\210017.D
Sample : THC SURR 50/1000 2/10/12





Quantitation Report (Not Reviewed)

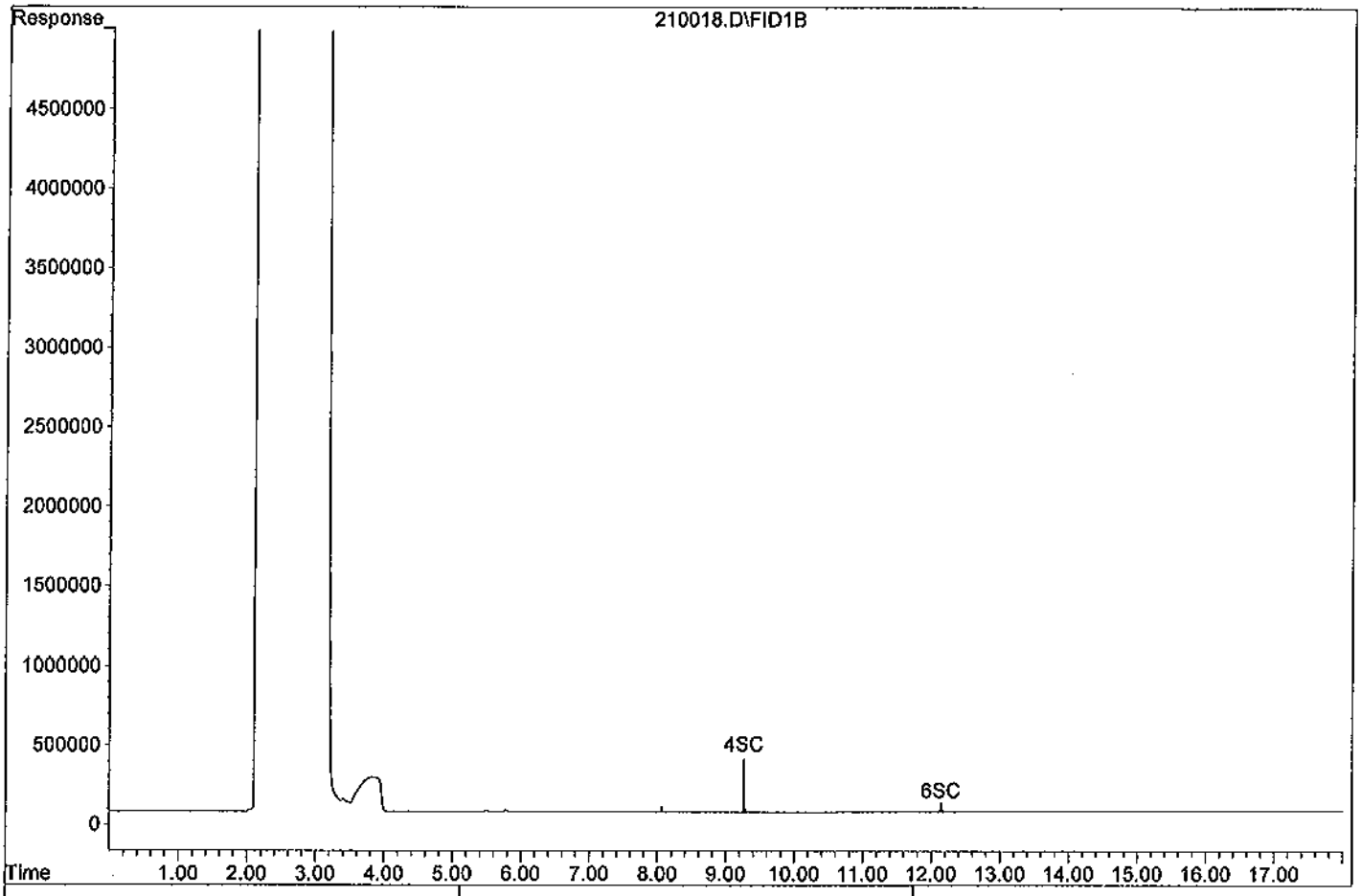
Data File : G:\APOLLO\DATA\120210\210018.D Vial: 18
Acq On : 2-10-12 21:25:57 Operator: LAC
Sample : THC SURR 100/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:23 2012 Quant Results File: TPH2436.RES

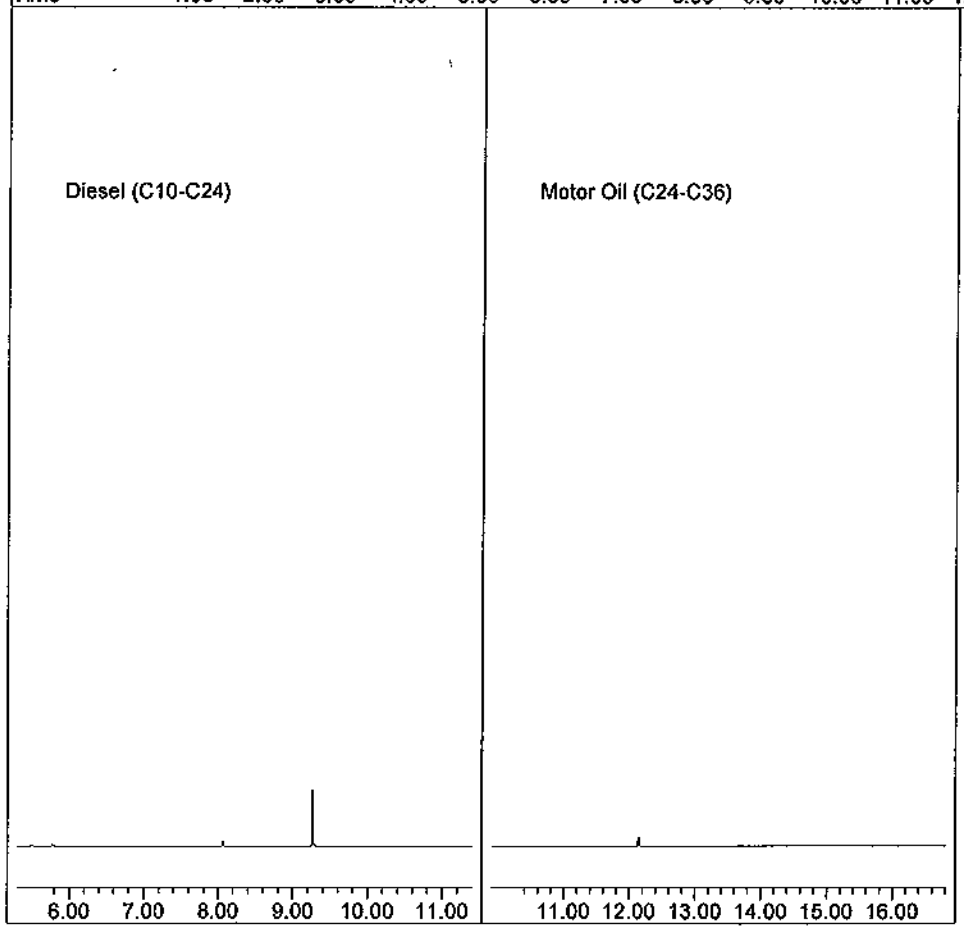
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.26	2494731	2.890	ppb
Surrogate Spike 30.000	Recovery =		9.63%	
6) SC Octacosane(S)	12.14	786360	2.899	ppb
Surrogate Spike 30.000	Recovery =		9.66%	
Target Compounds				

Data File: G:\APOLLO\DATA\120210\210018.D
Sample : THC SURR 100/1000





Quantitation Report (Not Reviewed)

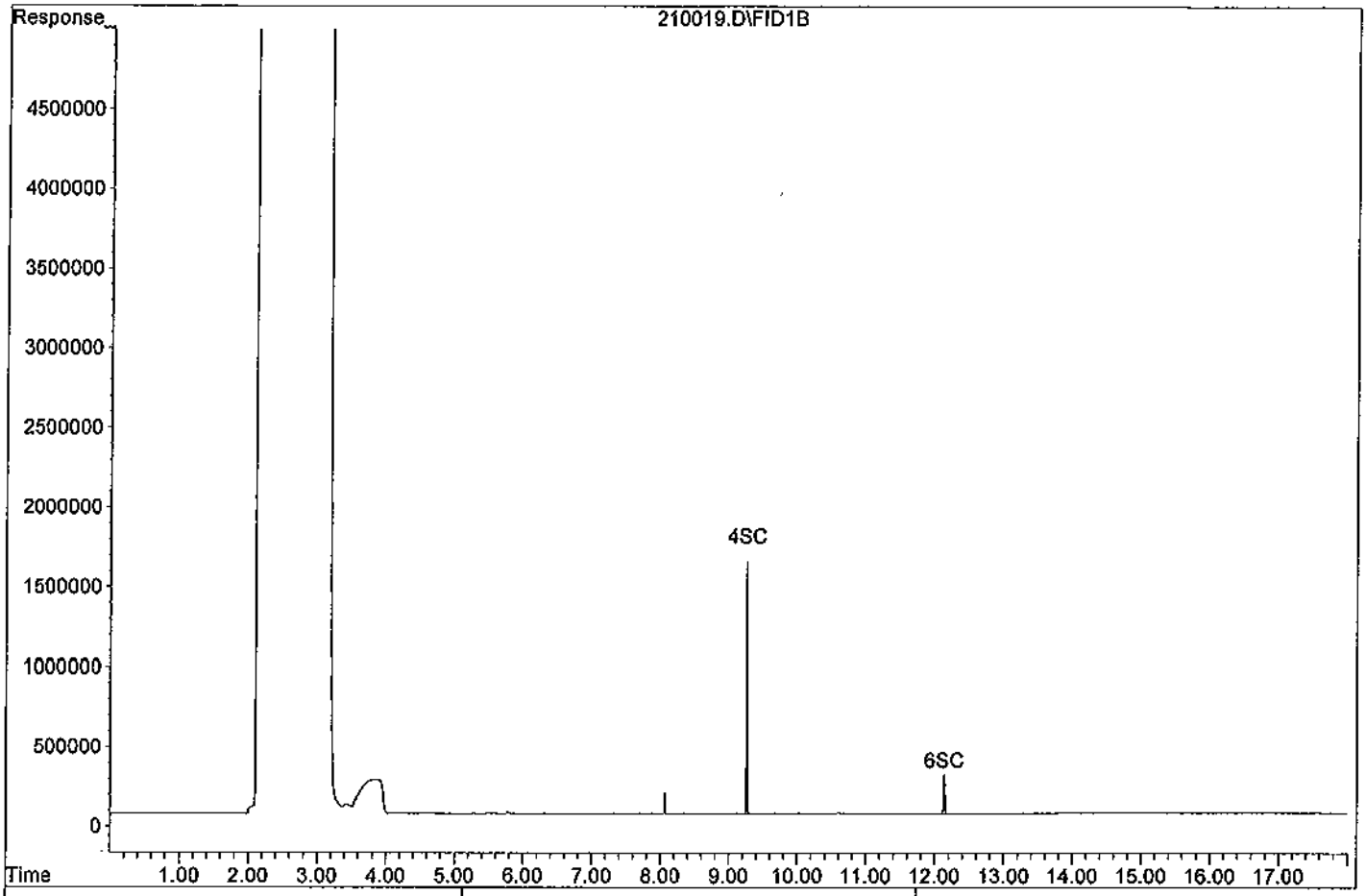
Data File : G:\APOLLO\DATA\120210\210019.D Vial: 19
Acq On : 2-10-12 21:49:45 Operator: LAC
Sample : THC SURR 400/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:23 2012 Quant Results File: TPH2436.RES

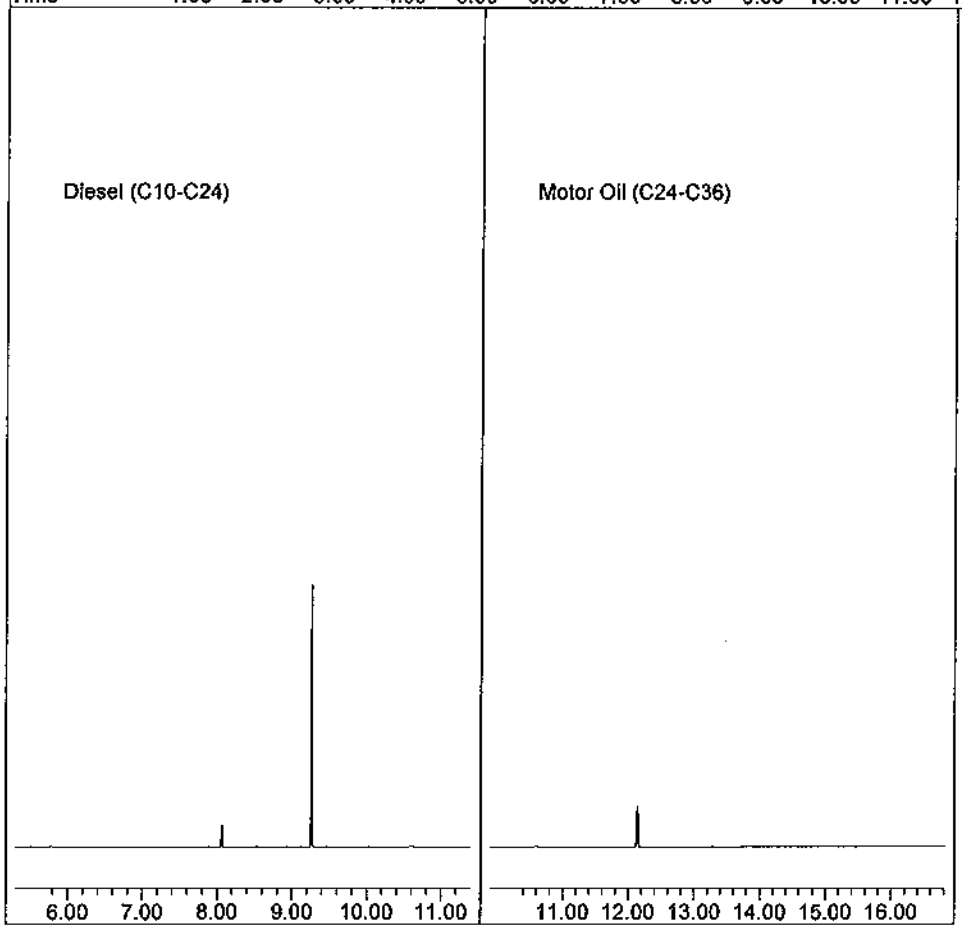
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.26	10109302	11.712	ppb
Surrogate Spike 30.000		Recovery =	39.04%	
6) SC Octacosane(S)	12.14	3264885	12.035	ppb
Surrogate Spike 30.000		Recovery =	40.12%	
Target Compounds				

Data File: G:\APOLLO\DATA\120210\210019.D
Sample : THC SURR 400/1000





Quantitation Report (Not Reviewed)

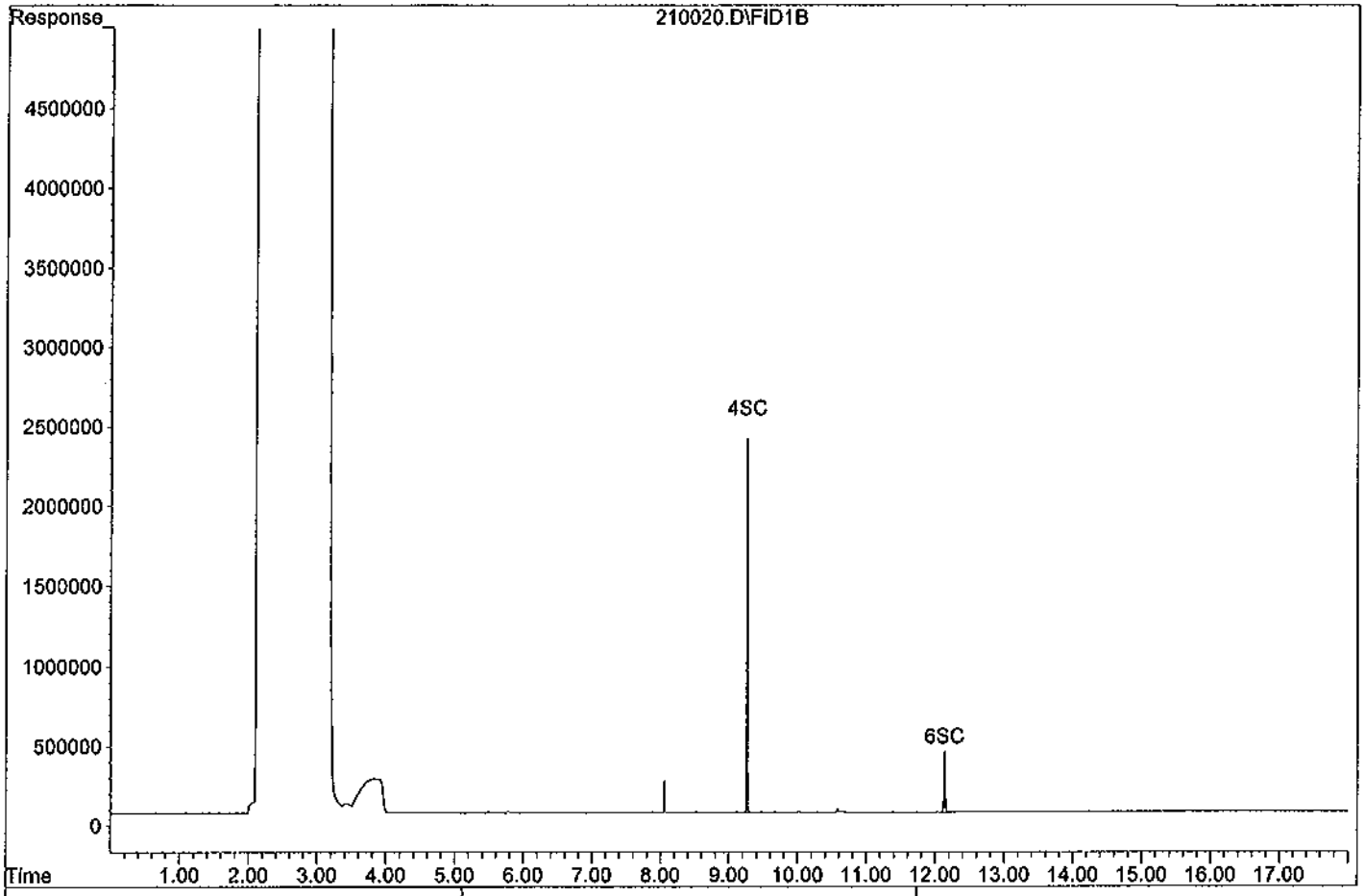
Data File : G:\APOLLO\DATA\120210\210020.D Vial: 20
Acq On : 2-10-12 22:13:31 Operator: LAC
Sample : THC SURR 600/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:23 2012 Quant Results File: TPH2436.RES

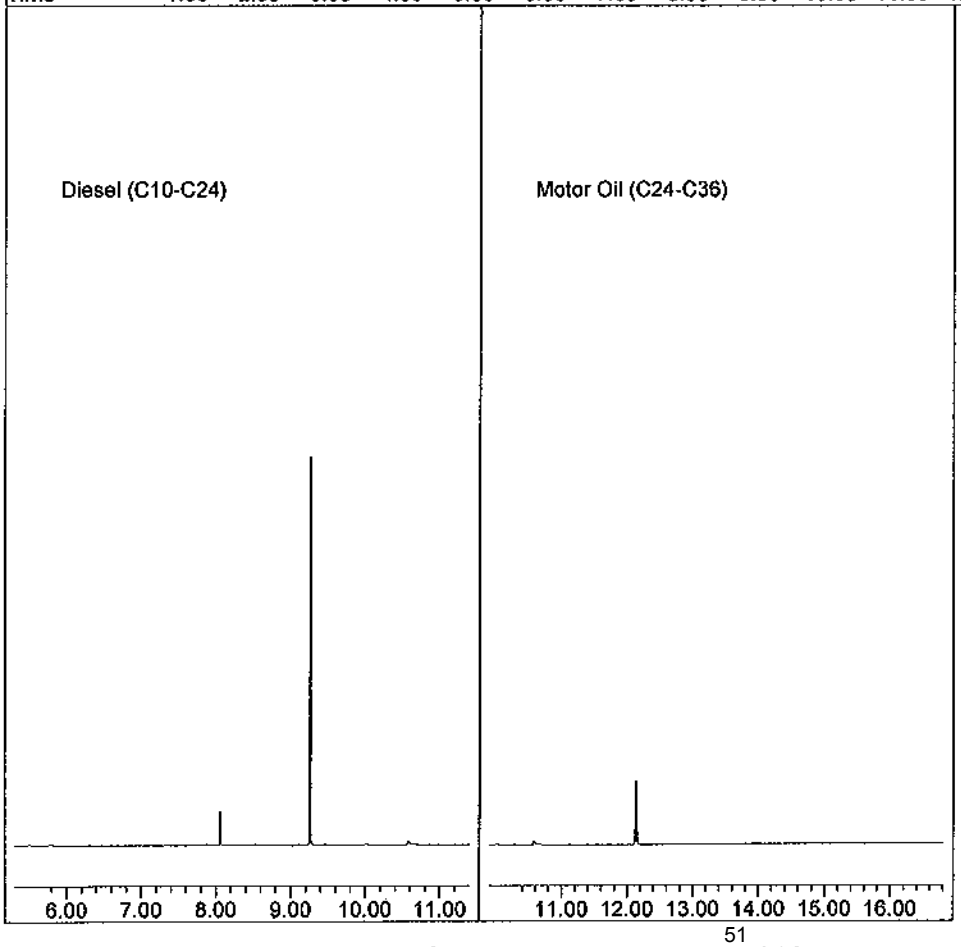
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
4) SC Ortho-Terphenyl(S)	9.26	15225656	17.640	ppb
Surrogate Spike 30.000	Recovery =		58.80%	
6) SC Octacosane(S)	12.14	4903340	18.074	ppb
Surrogate Spike 30.000	Recovery =		60.25%	
Target Compounds				

Data File: G:\APOLLO\DATA\120210\210020.D
Sample : THC SURR 600/1000





Quantitation Report (Not Reviewed)

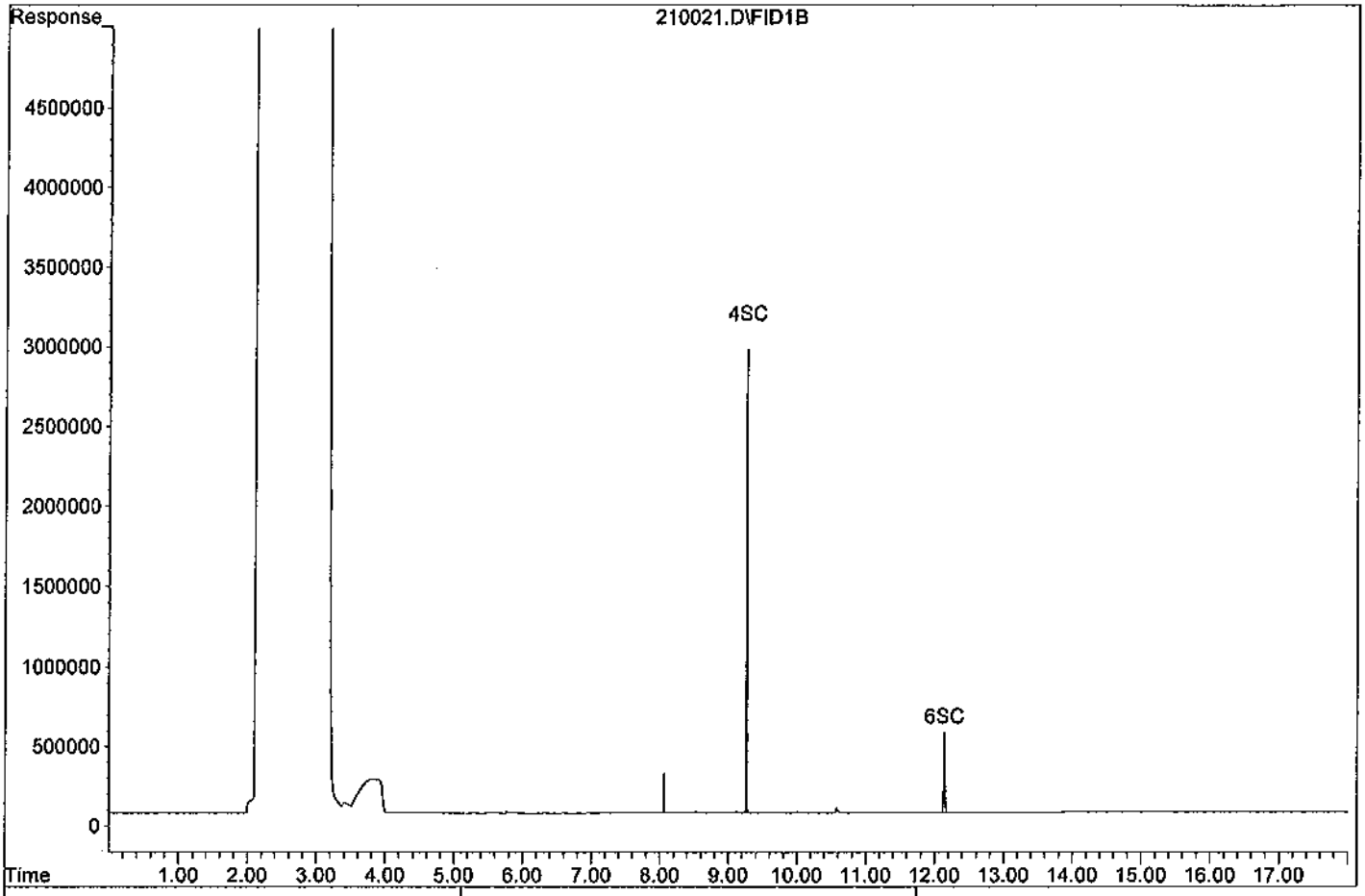
Data File : G:\APOLLO\DATA\120210\210021.D Vial: 21
Acq On : 2-10-12 22:37:15 Operator: LAC
Sample : THC SURR 800/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:23 2012 Quant Results File: TPH2436.RES

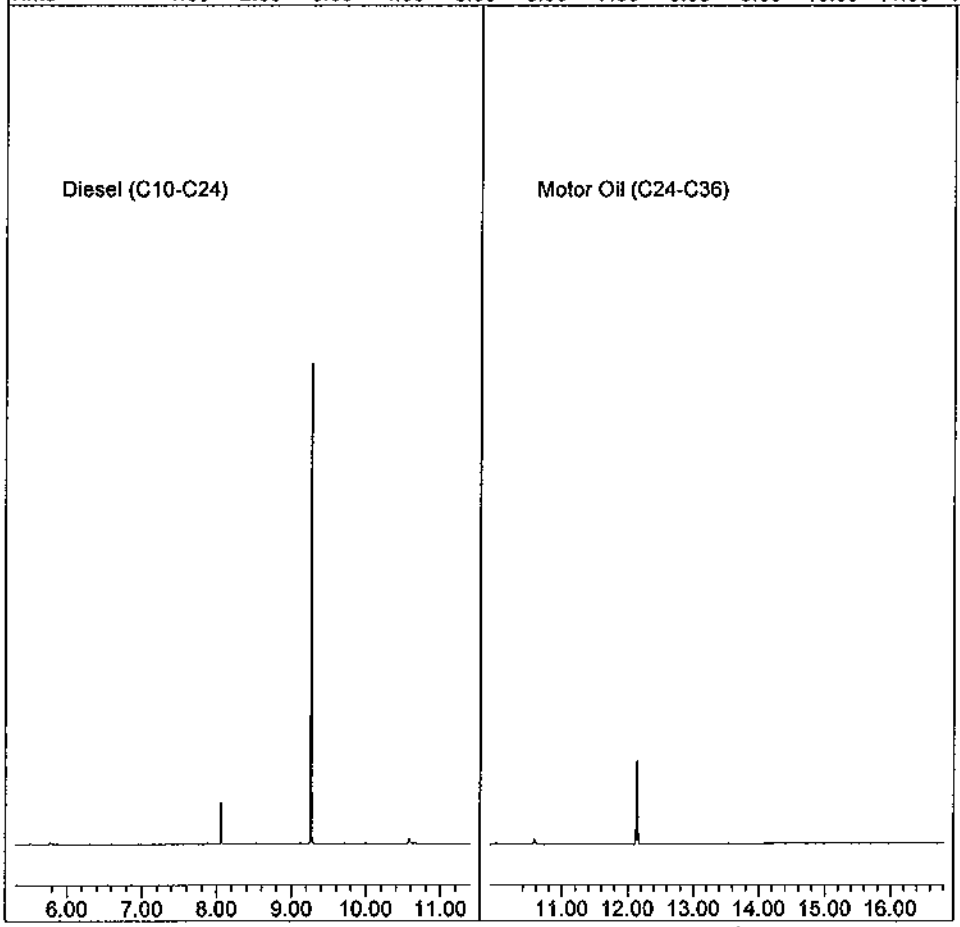
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.26	19387319	22.461 ppb
Surrogate Spike 30.000	Recovery =		74.87%
6) SC Octacosane(S)	12.14	6465685	23.833 ppb
Surrogate Spike 30.000	Recovery =		79.44%
Target Compounds			

Data File: G:\APOLLO\DATA\120210\210021.D
Sample : THC SURR 800/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120210\210022.D Vial: 22
Acq On : 2-10-12 23:00:58 Operator: LAC
Sample : THC SURR 1000/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:24 2012 Quant Results File: TPH2436.RES

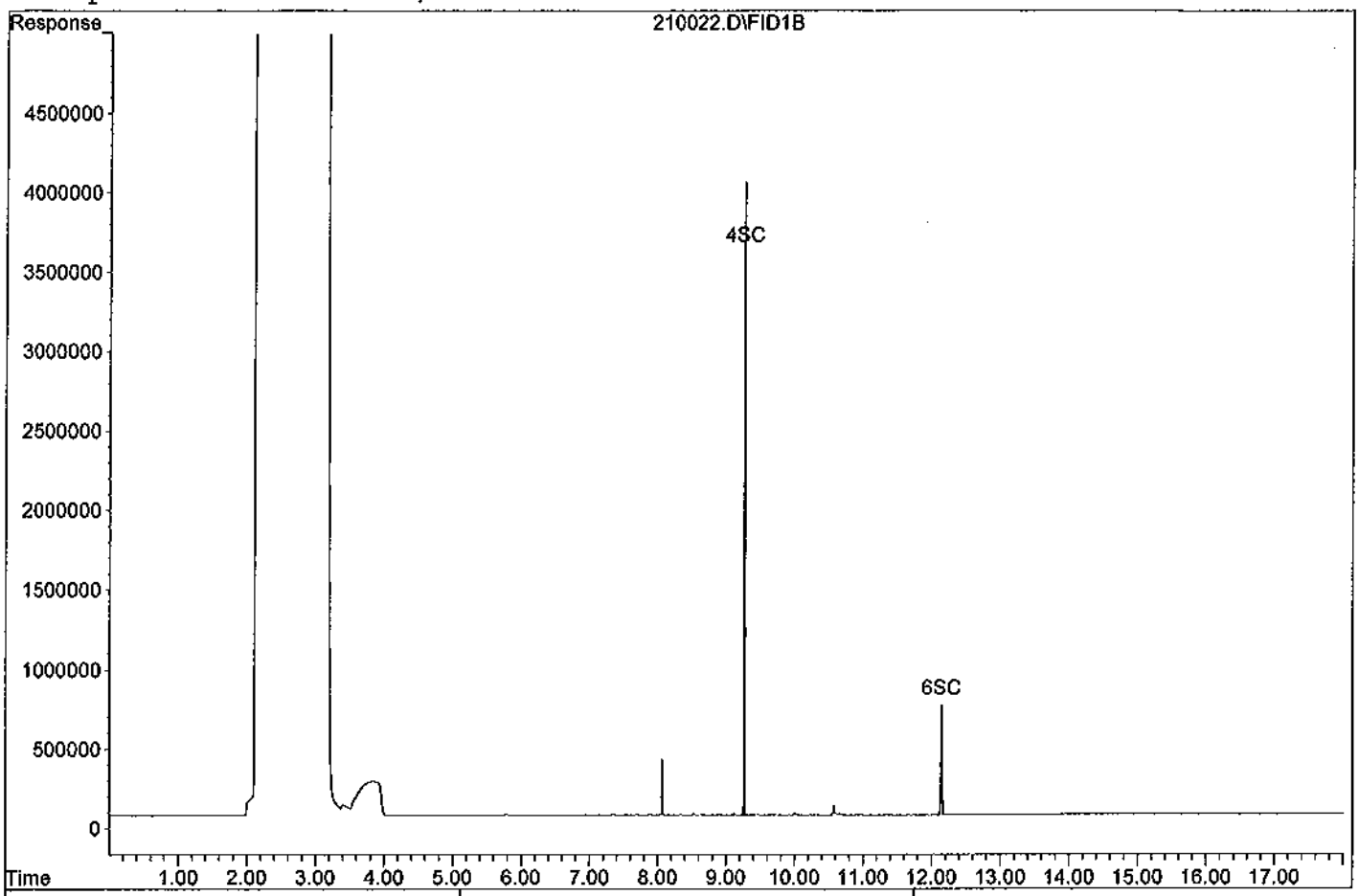
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

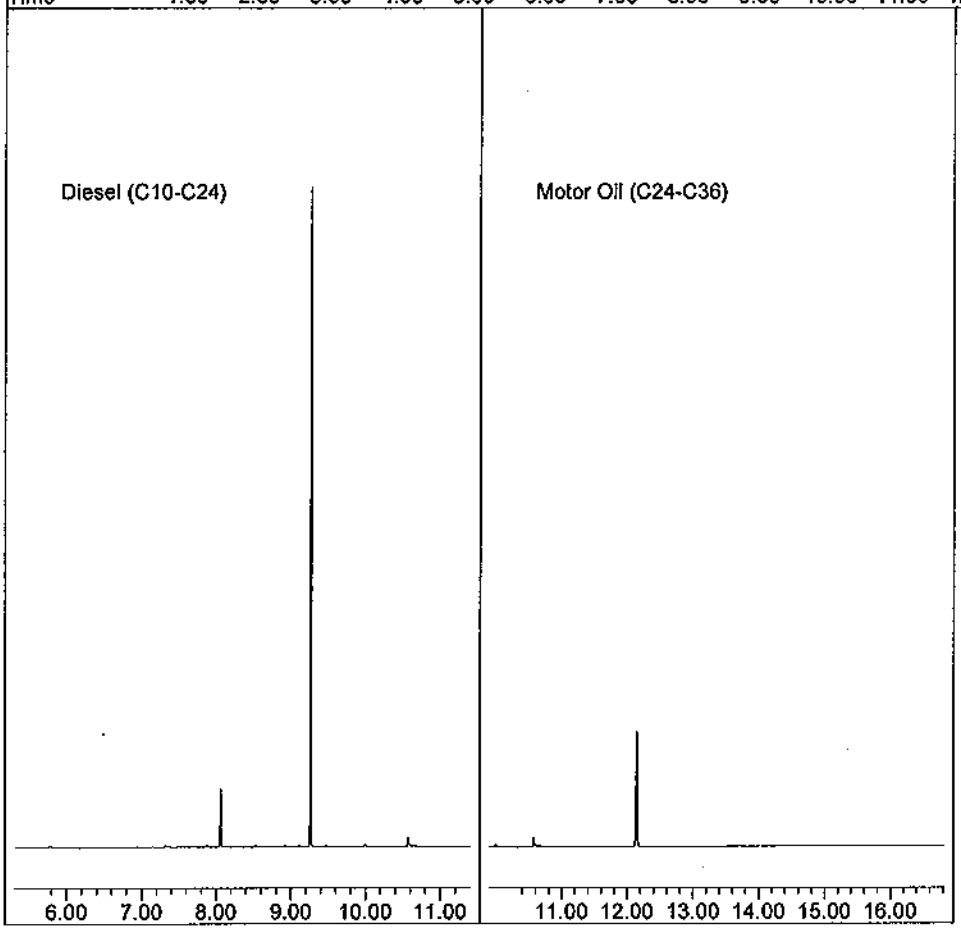
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.27	26546488	30.756 ppb
Surrogate Spike 30.000	Recovery =		102.52%
6) SC Octacosane(S)	12.14	8825648	32.533 ppb
Surrogate Spike 30.000	Recovery =		108.44%
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\120210\210022.D
Sample : THC SURR 1000/1000





TPH Extractables
TPH0210

Form 7

Second Source Calibration

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

SDG No: 66864
Date Analyzed: 02/10/12
Instrument: Apollo
Initial Cal. Date: 02/10/12
Data File: 210010.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	212762	191399	10	HATML	0.07
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40							
		Average			10.0		

Quantitation Report (QT Reviewed)

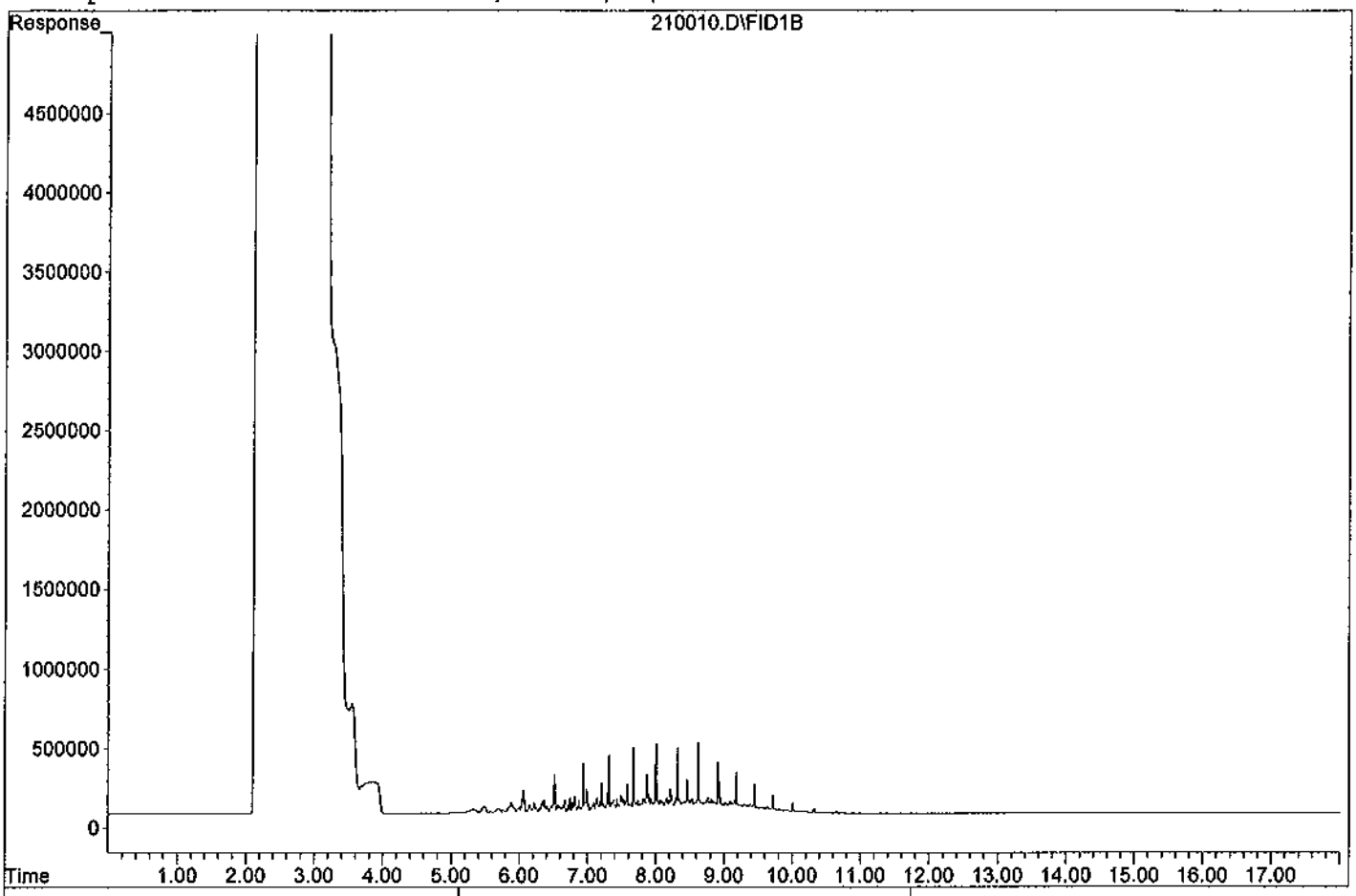
Data File : G:\APOLLO\DATA\120210\210010.D Vial: 10
Acq On : 2-10-12 18:14:27 Operator: LAC
Sample : DIESEL 2ND SRC 400/1000 2/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:14 2012 Quant Results File: TPH2436.RES

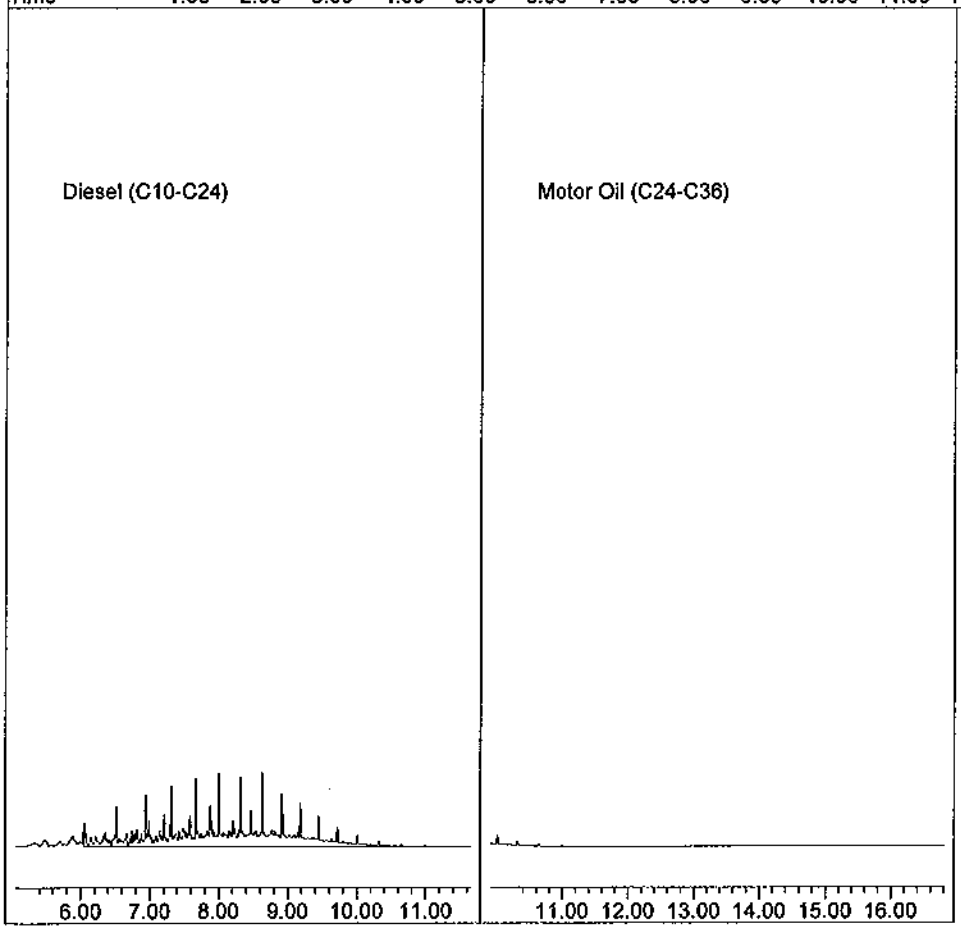
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
1) HATM Diesel (C10-C24)	8.35	154297376	381.611 ppb

Data File: G:\APOLLO\DATA\120210\210010.D
Sample : DIESEL 2ND SRC 400/1000 2/10/12





TPH Extractables
TPH2436

Form 7

Continuing Calibration

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

SDG No: 66864
Date Analyzed: 02/13/12
Instrument: Apollo
Initial Cal. Date: 02/10/12
Data File: 210078.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	202166	205590	1.7	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			1.7		

Quantitation Report (QT Reviewed)

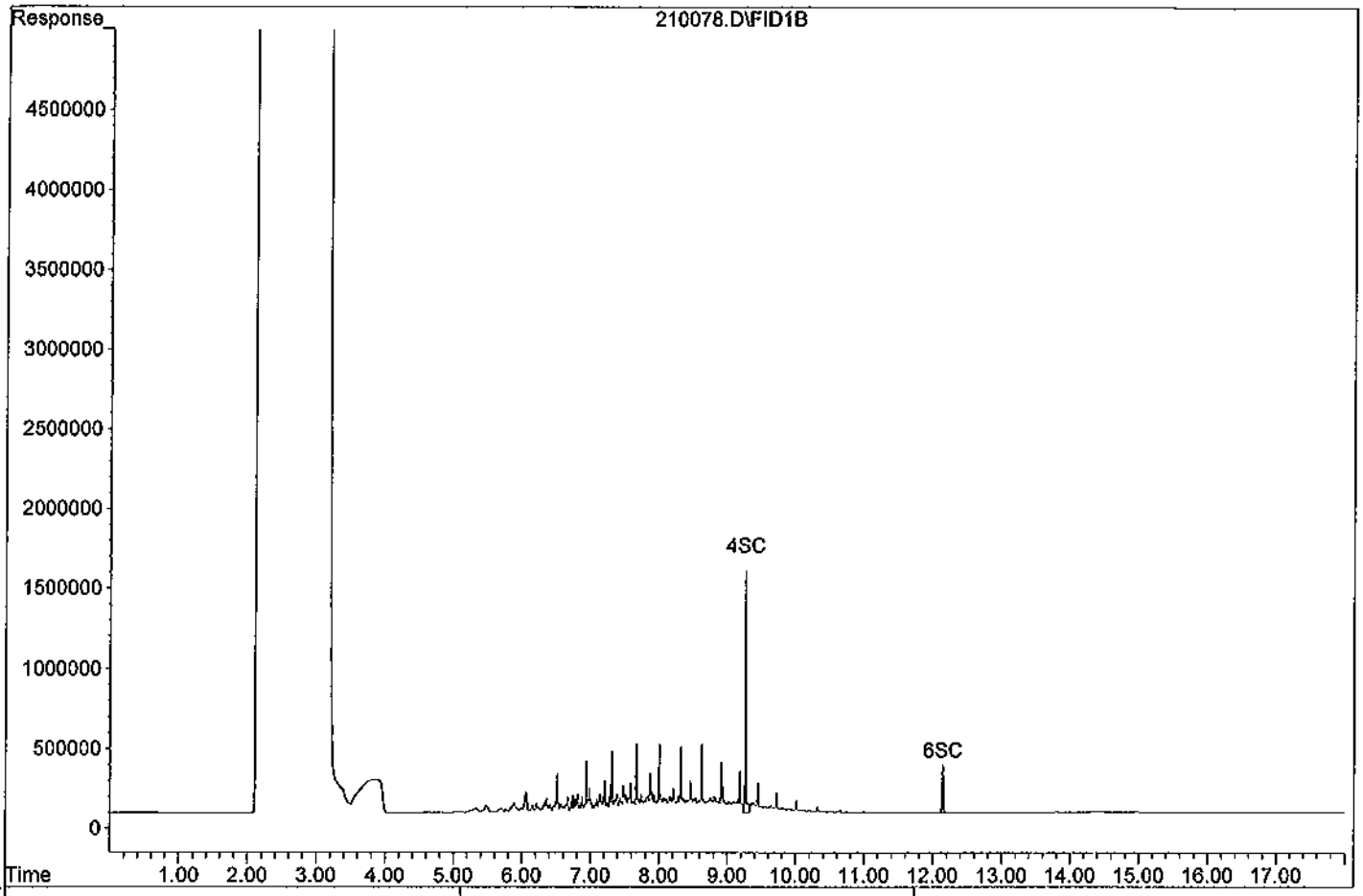
Data File : G:\APOLLO\DATA\120210\210078.D Vial: 78
Acq On : 2-13-12 14:21:19 Operator: LAC
Sample : DIESEL 400/1000 2/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 15 16:02 2012 Quant Results File: TPH2436.RES

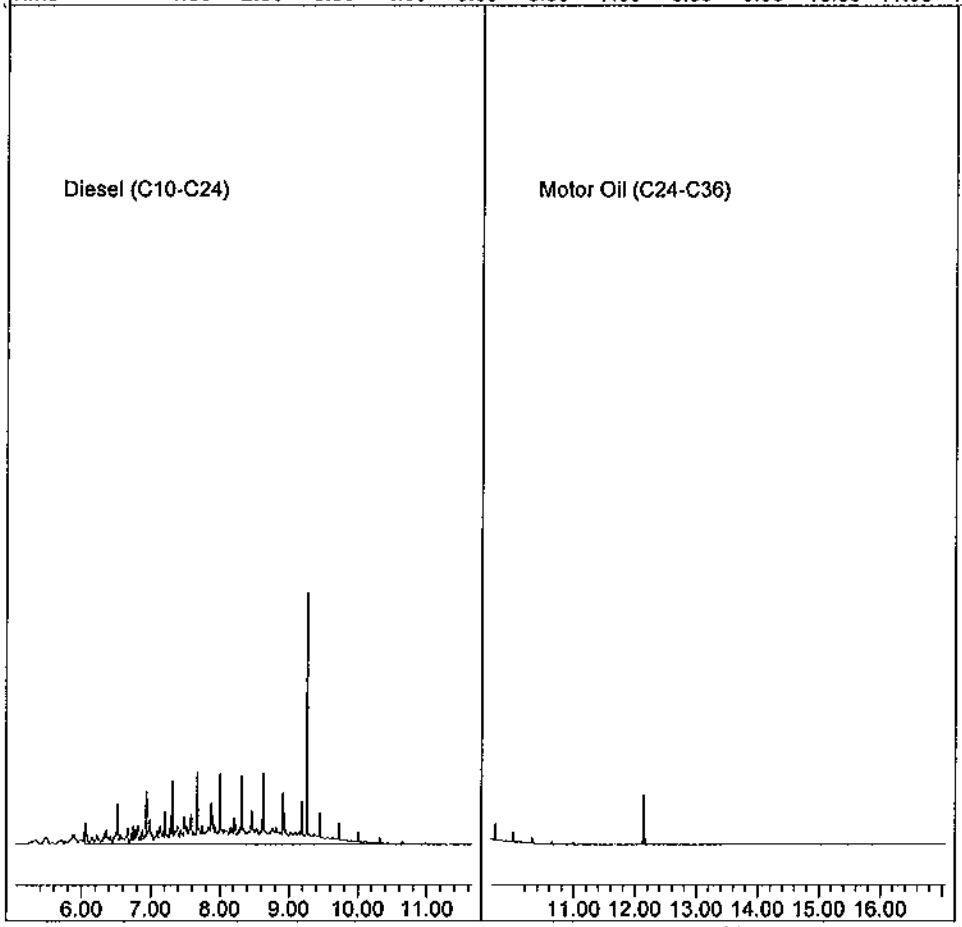
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.26	12356639	24.444 ppb
Surrogate Spike 30.000	Recovery =		81.48%
6) SC Octacosane(S)	12.14	3780284	22.991 ppb
Surrogate Spike 30.000	Recovery =		76.64%
Target Compounds			
1) HATM Diesel (C10-C24)	8.35	164471637	406.774 ppb
2) HBTM Motor Oil (C24-C36)	13.36	4772630	44.559 ppb

Data File: G:\APOLLO\DATA\120210\210078.D
Sample : DIESEL 400/1000 2/10/12





TPH Extractables
TPH2436

Form 7

Continuing Calibration

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

SDG No: 66864
Date Analyzed: 02/13/12
Instrument: Apollo
Initial Cal. Date: 02/10/12
Data File: 210095.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	202166	216880	7.3	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
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28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			7.3		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120210\210095.D Vial: 95
Acq On : 2-13-12 21:05:47 Operator: LAC
Sample : DIESEL 400/1000 2/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 15 16:04 2012 Quant Results File: TPH2436.RES

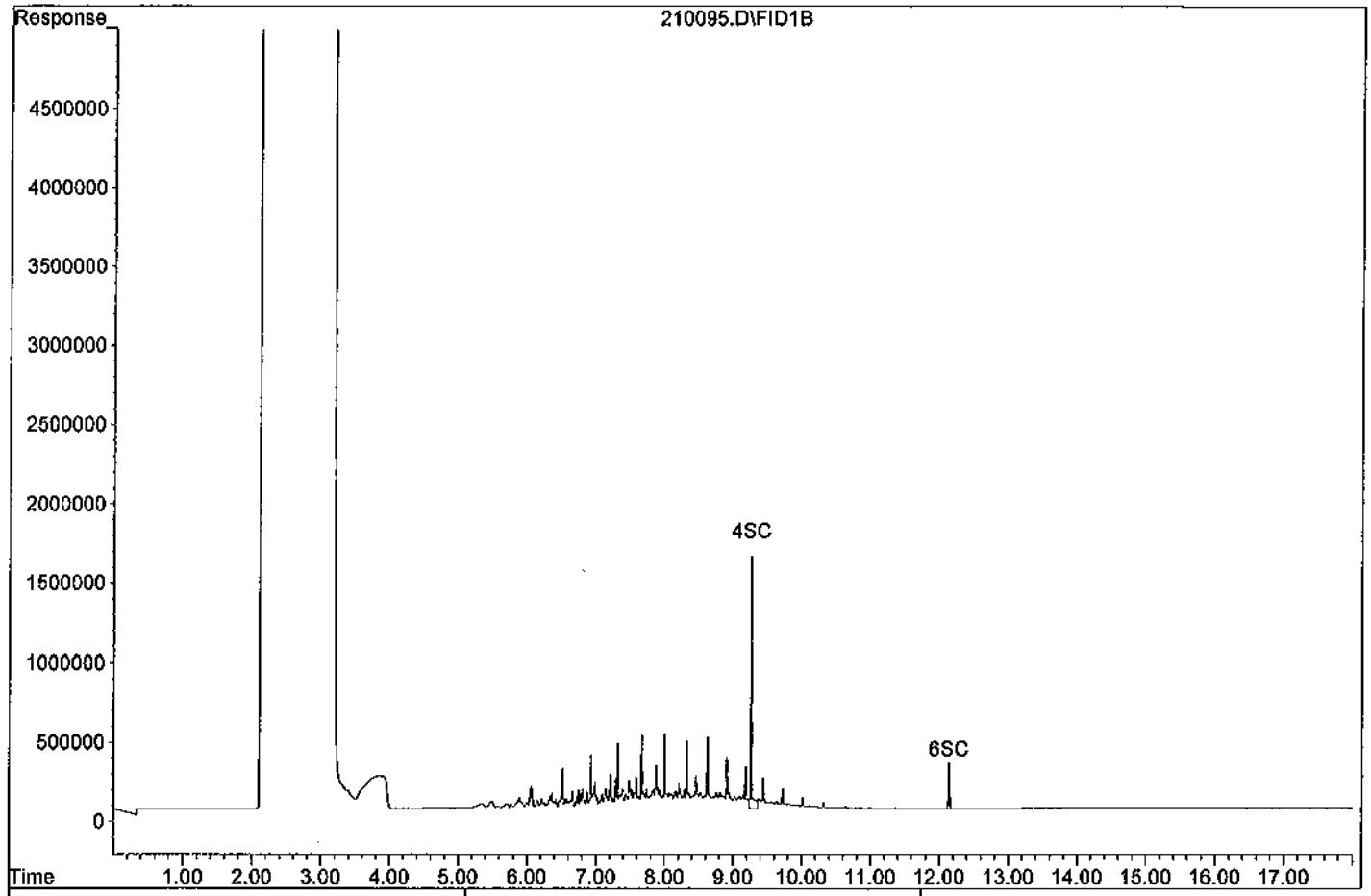
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

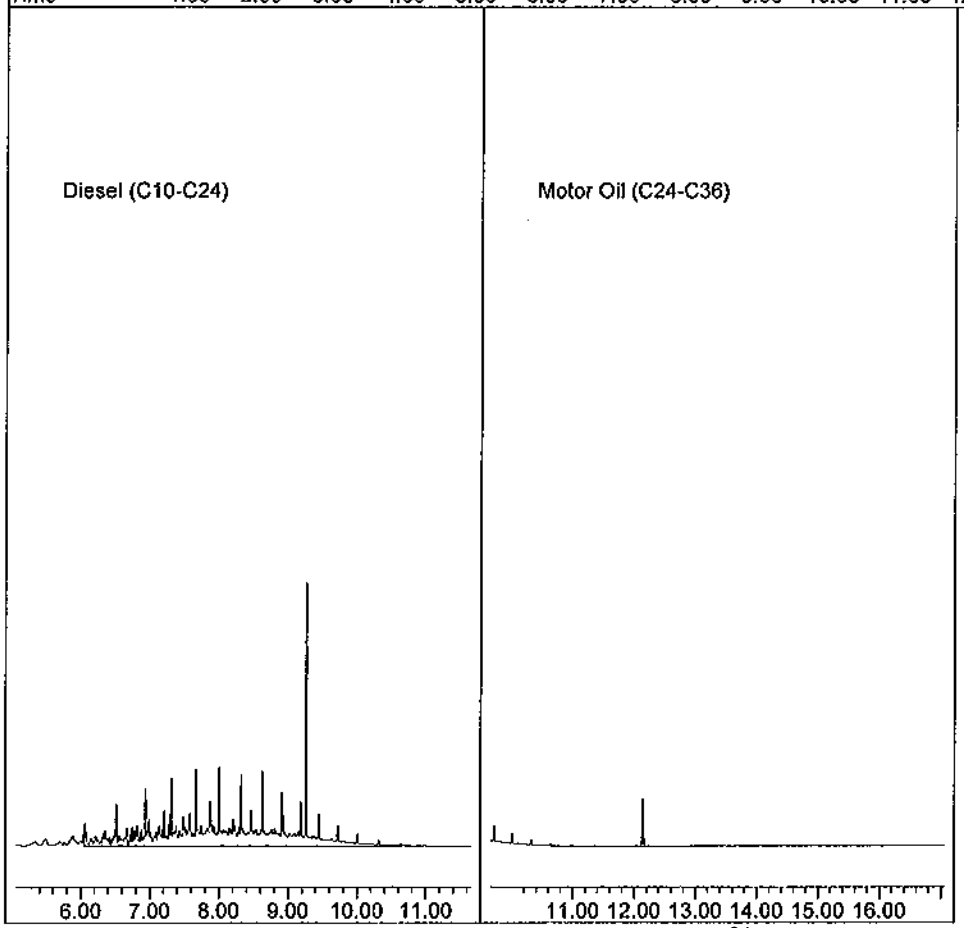
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.26	13870641	27.439 ppb
Surrogate Spike 30.000	Recovery =		91.46%
6) SC Octacosane(S)	12.14	3731761	22.696 ppb
Surrogate Spike 30.000	Recovery =		75.65%
Target Compounds			
1) HATM Diesel (C10-C24)	8.35	173503617	429.112 ppb
2) HBTM Motor Oil (C24-C36)	13.36	6634899	61.946 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\120210\210095.D
Sample : DIESEL 400/1000 2/10/12





EPA 8015 Modified
Total Petroleum Hydrocarbons
Raw Data

Method Blank
TPH Diesel Water

Blank Name/QCG: **120206W-54074 - 163991**
Batch ID: #TPETD-120206A

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	02/06/12	02/13/12
BLANK	SURROGATE: OCTACOSANE (S)	83.8	28-142			%	02/06/12	02/13/12
BLANK	SURROGATE: ORTHO-TERPHEN	63.6	57-132			%	02/06/12	02/13/12

Quant Method: TPH0210.M
Run #: 210088
Instrument: Apollo
Sequence: 120210
Initials: LA

GC SC-Blank-REG MDLs
Printed: 03/01/12 8:56:24 AM

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120210\210088.D Vial: 88
Acq On : 2-13-12 18:20:22 Operator: LAC
Sample : 120206A BLK 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Feb 16 16:52 2012 Quant Results File: TPH0210.RES

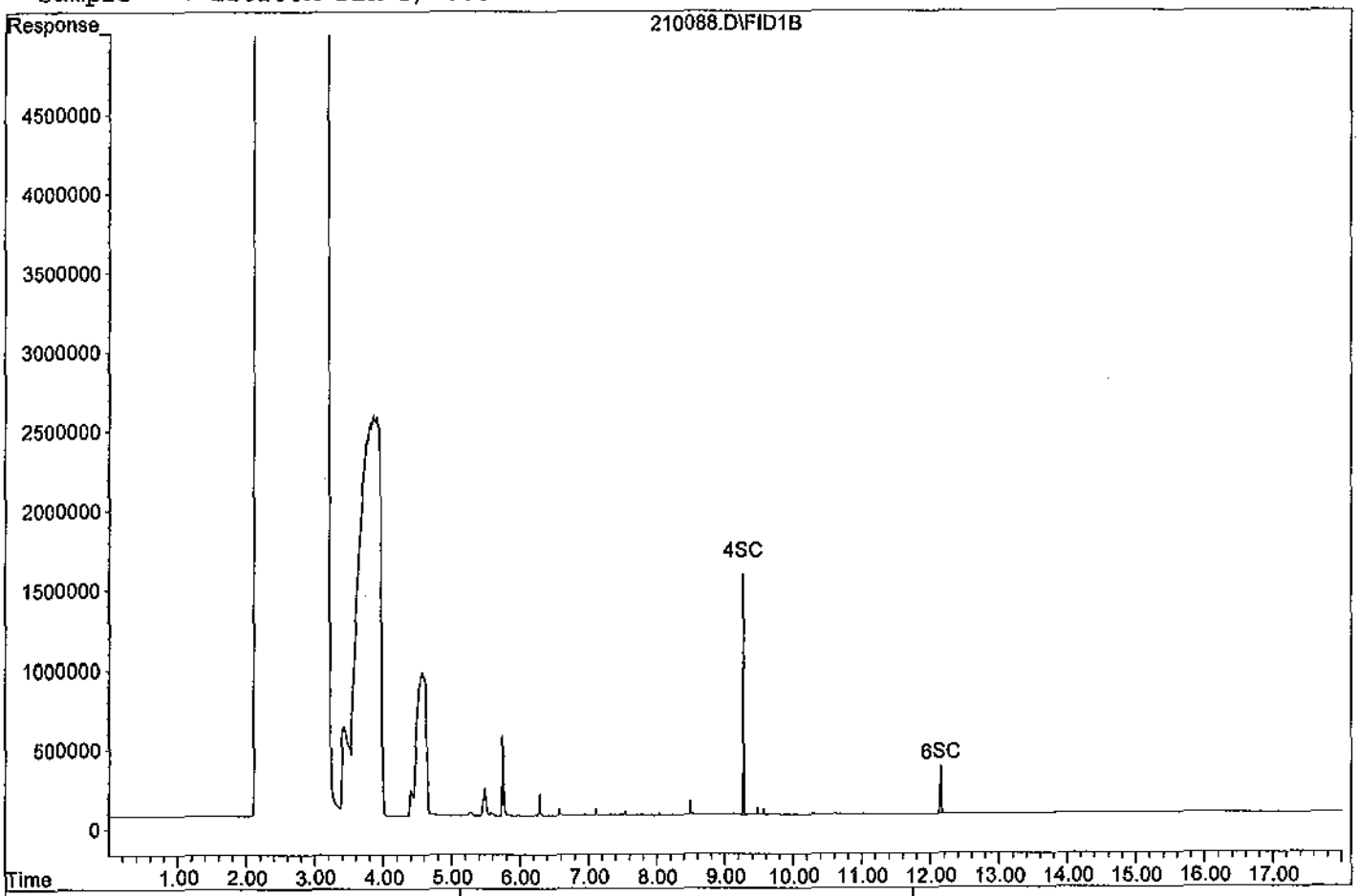
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

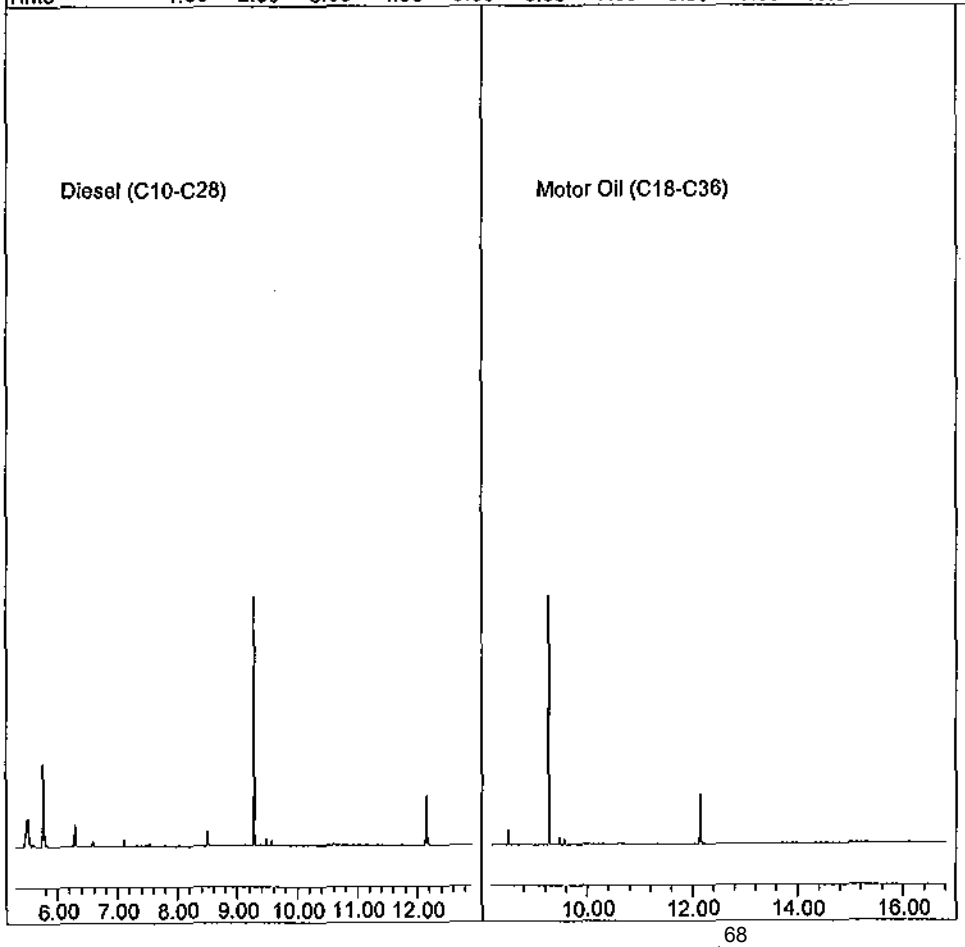
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.26	9642368	95.373 ppb
Surrogate Spike 150.000		Recovery =	63.58%
6) SC Octacosane(S)	12.14	4133354	125.693 ppb
Surrogate Spike 150.000		Recovery =	83.80%
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\120210\210088.D
Sample : 120206A BLK 5/1000





Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **120206W-54074 LCS - 163991**
Batch ID: #TPETD-120206A

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	1360	68.0	61-143
SURROGATE: OCTACOSANE (S)	150	126	84.0	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	119	79.3	57-132

Comments:

Primary	SPK
Quant Method :	TPH0210.M
Extraction Date :	02/06/12
Analysis Date :	02/13/12
Instrument :	Apollo
Run :	210089
Initials :	LA

Printed: 03/01/12 8:56:16 AM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120210\210089.D Vial: 89
Acq On : 2-13-12 18:44:01 Operator: LAC
Sample : 120206A LCS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Feb 17 9:25 2012 Quant Results File: TPH0210.RES

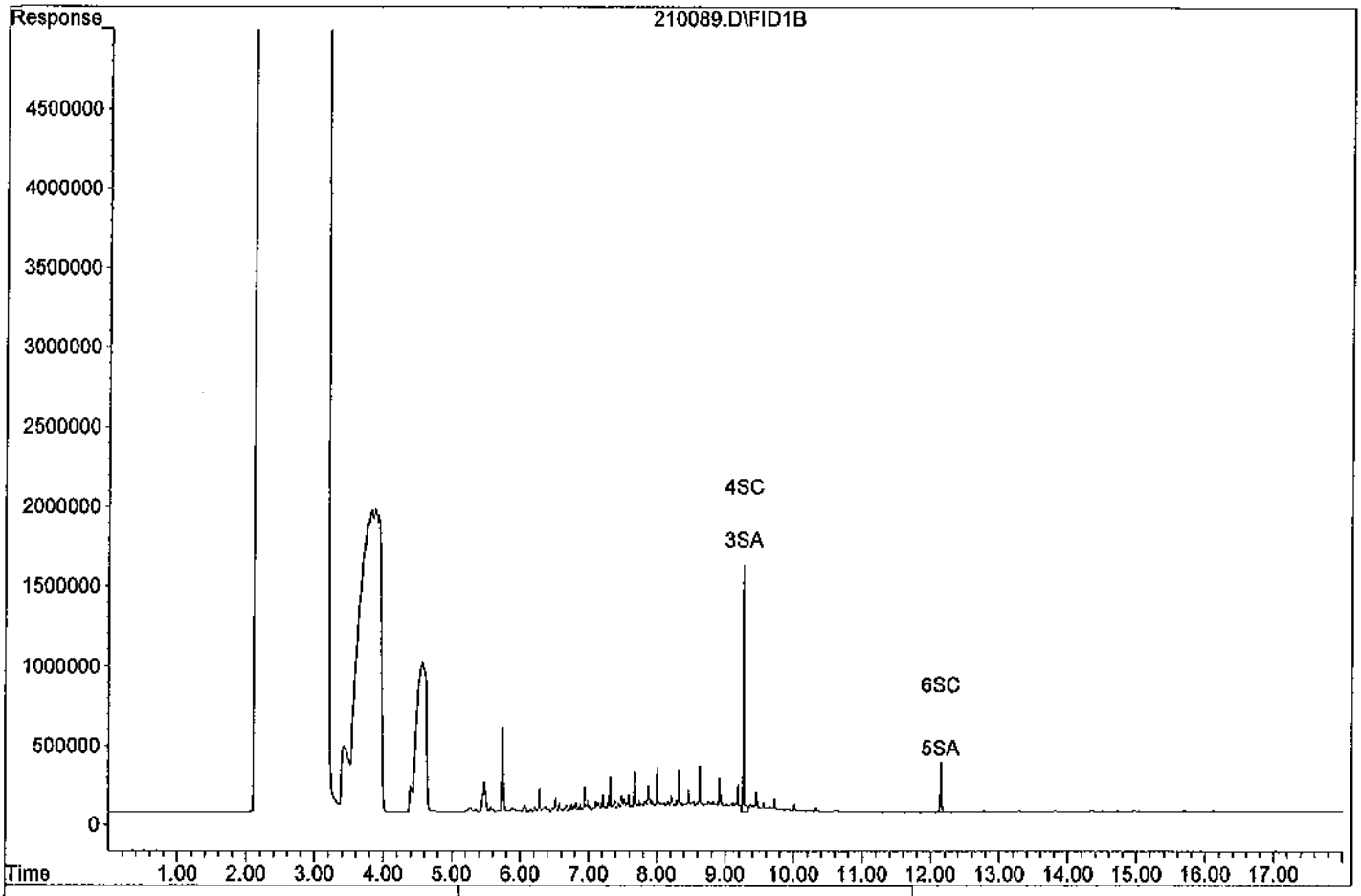
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

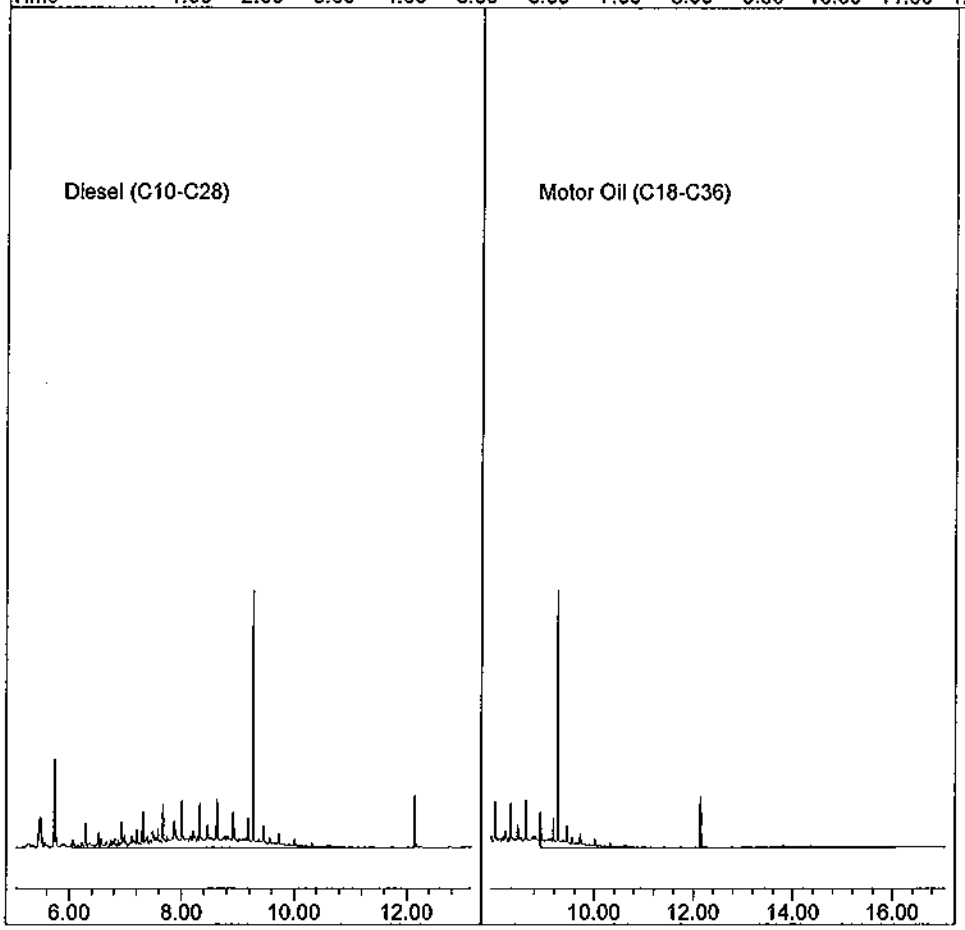
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.26	12074527	113.149 ppb
Surrogate Spike 150.000		Recovery =	75.43%
4) SC Ortho-Terphenyl(S)	9.26	12074527	119.429 ppb
Surrogate Spike 150.000		Recovery =	79.62% LMC 3/1/12
5) SA Not Used2(S)	12.14	4151045	151.461 ppb
Surrogate Spike 150.000		Recovery =	100.97%
6) SC Octacosane(S)	12.14	4151045	126.231 ppb
Surrogate Spike 150.000		Recovery =	84.15%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	104407707	1360.466 ppb
2) HBTM Motor Oil (C18-C36)	12.49	34384378	939.308 ppb

Algorithm Check: $\frac{(12074527)(5)}{(104407707)(2)} = \frac{(252755)(2)}{(252755)(2)} = 119.4291607$ LMC 3/1/12

Data File: G:\APOLLO\DATA\120210\210089.D
Sample : 120206A LCS-1 5/1000

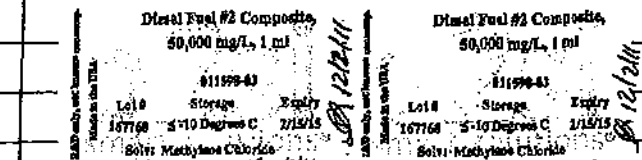




STANDARD 108	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS

DIESEL SPIKE

DIESEL FUEL #2	50,000ug/ml	O2SI	2000ml	50ML	2000ug/ml	MC # 51204	12/2/11 EX: 3/2/12

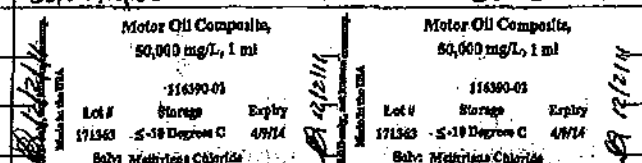


Diesel Fuel #2 Composite Op. 12/2/11
Lot #: 167768 - 29402 Ex. 12/2/12
Rec: 8/26/11 MFR exp. 02/15/15

Diesel Fuel #2 Composite Op. 12/2/11
Lot #: 167768 - 29403 Ex. 12/2/12
Rec: 8/26/11 MFR exp. 02/15/15

MOTOR OIL SPIKE

MOTOR OIL	50,000ug/ml	O2SI	2000ml	50ML	2000ug/ml	MC # 51204	12/2/11 EX: 3/2/12



Motor oil composite Op. 12/2/11
Lot #: 171363 - 28641 Ex. 12/2/12
Rec: 4/20/11 MFR exp. 04/09/14

Motor oil composite Op. 12/2/11
Lot #: 171363 - 28640 Ex. 12/2/12
Rec: 4/20/11 MFR exp. 04/09/14

OCL 3 (CCV)

See pg. 041 VARIOUS Analytes	10ug/ml	OCL STOCK PREP: 8/19/11 EX: 2/23/12	250ml	25ML	0.160ug/ml	HEXANE # 0107113	12/2/11 EX: 2/28/12

TDX 3 (CCV)

TOXAPHENE	100ug/ml	TDX STOCK PREP: 9/20/11 EX: 3/20/12	125ml	25ML	0.50ug/ml	HEXANE # 0107113	12/2/11 EX: 3/20/12

12/3/11

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
		10/26/11	04/26/12			51204

12/3/11 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
		10/26/11	04/26/12			51204

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE / INITIALS
							003

THC SURROGATE (* GIVEN TO EXTRACTIONS)

O-TERPHENYL OCTACOSANE	600ug/ml	O2SI CAT: 1110316-05 LOT: 176405-29679 OP: 12/28/11 EX: 12/28/12	N/A	25ML	600ug/ml	N/A	12/28/11 EX: ~~12/28/11~~ 12/28/12

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
		10/28/11	04/28/12			51204

12/28/11 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
		10/26/11	04/26/12			51204

DIESEL CAL STD.

STD.	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT / LOT#
DIESEL FUEL #2	50,000 ug/mL	O2SI CAT#011698-03 LOT#179635-29648 OP:12/28/11 EXP:12/28/12	500µL	25mL	1000ug/mL	MC LOT# 110510F
O-TERPHENYL OCTACOSANE	600 ug/mL	O2SI CAT#1110316-05 LOT#176405-29679 OP:12/28/11EXP:12/28/12	2080µL		50ug/mL	

12/28/11 EX: 6/28/12

MOTOR OIL CAL STD

STD.	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT / LOT#
MOTOR OIL	50,000 ug/mL	O2SI CAT#116390-02 LOT#171363-28618 OP:12/28/11 EXP:12/28/12	500 µL	25mL	1000ug/mL	MC LOT# 110510F

12/28/11 EX: 6/28/12

DIESEL 2ND SOURCE

DIESEL FUEL #2	50,000ug/ml	O2SI CAT: 011598-03 LOT: 167768-29405 OP: 12/28/11 EX: 12/28/12	500ml	25ML	1000ug/ml	MC #110510F	12/28/11 EX: 6/28/12

STANDARD 004

	INITIAL CONC	SOURCE	DATE	FINAL CONC	LOT #	DATE / INITIALS

PREP DATE:	12/28/11					
OP 2ND SOURCE						
EXP:	04/27/12					
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL
	OP 2ND SRC	6		12/02/11	04/27/12	500
VWR	HEXANE		010713A			500
					Final VOL.	1000

12/28/11
EX: 4/27/12

PREP DATE:	12/28/11											
OPF CURVE												
EXP:	02/07/12			12/28/11		ZA	1	2	3	4	5	6
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL
	OPF STD	6		~~12/28/11~~	02/07/12	1	10	50	200	500	700	1000
	Hexane		010713A	12/28/11		998	990	950	800	500	300	NA
					Final VOL.	1000	1000	1000	1000	1000	1000	1000

12/28/11
EX: 2/7/12

DIESEL SPIKE

DIESEL FUEL #2 — 50,000µg/mL — 025I — 2000mL — 50mL — 2000µg/mL — MC — #110510F — 12/28/11 — EX: 3/28/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
611590-03
Lot # 179635 Storage ≤-10 Degrees C Expiry 11/8/15
Solvt: Methylene Chloride
Diesel Fuel #2 Composite OP: 12/28/11
Lot #: 179635 - 29647 EX: 12/28/12
Rec: 10/13/11 MFR exp. 11/08/15

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
611590-03
Lot # 179635 Storage ≤-10 Degrees C Expiry 11/8/15
Solvt: Methylene Chloride
Diesel Fuel #2 Composite OP: 12/28/11
Lot #: 179635 - 29646 EX: 12/28/12
Rec: 10/13/11 MFR exp. 11/08/15

MOTOR OIL SPIKE

MOTOR OIL — 50,000µg/mL — 025I — 3000mL — 75mL — 2000µg/mL — MC — #110510F — 12/28/11 — EX: 3/28/12

o2si — 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 OP: 12/28/11
Date Opene Motor oil composite EX: 12/28/12
Lot #: 161898 - 27589
Rec: 10/18/10 MFR exp. 07/23/13

o2si — 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 OP: 12/28/11
Date Opene Motor oil composite EX: 12/28/12
Lot #: 161898 - 27588
Rec: 10/18/10 MFR exp. 07/23/13

Motor Oil Composite, 50,000 mg/L, 1 ml
116390-02
Lot # 171363 Storage ≤-10 Degrees C Expiry 4/9/14
Solvt: Methylene Chloride
Motor oil composite OP: 12/28/11
Lot #: 171363 - 28642 EX: 12/28/12
Rec: 4/20/11 MFR exp. 04/09/14
12/28/11

STANDARD 028

	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CNC	SOL'N. LOT #	DATE / INITIALS

2/9/12

PREP:	02/09/12												
PAC ECO CURVE													
EXP:	02/25/12												
PE Lot#	ID#	[µg/mL]	Lot #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	
Lot: 177986	PAC ECO CAL STD	5		02/09/12	02/25/12	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 Lot# 178704				DATE	EXP. DATE								
Prep: 2/9/12	Exp: 03/11/12	5µg/ml	010711A	01/20/12	03/11/12	500/1000							

2/9/12
EX: 2/25/12

2/9/12
EX: 3/11/12

2/10/12

TCH SURROGATE CURVE											
STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	
THC SURR	50		11/15/11	05/15/12	50	100	400	600	800	1000	
MC		51257			950	900	600	400	200	NA	
				Final VOL.	1000	1000	1,000	1000	1000	1000	

2/10/12
EX: 5/15/12

DIESEL CURVE											
STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	
DIESEL	1000		12/28/11	06/28/12	10	100	400	600	800	1000	
MC		51257			990	900	600	400	200	NA	
				Final VOL.	1000	1000	1,000	1000	1000	1000	

2/10/12
EX: 6/28/12

MOTOR OIL CURVE											
STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	
MOTOR OIL	1000		12/28/11	06/28/12	50	100	400	600	800	1000	
MC		51257			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:	12/28/11				51257
2/10/12	Exp:	06/28/12				

Deg. Degradation Check

DDT
DDD
DDE
ENDRIN
ENDRIN KETONE
ENDRIN ALDEHYDE

100ng/µL O2SI — 25mL — 5mL — 0.5ng/µL — Hexane #010711A

CAT: 130109-01
LOT: 176402-29311
OP: 8/11/11
EX: 8/11/12

2/13/12
EX: 8/11/12

QC STOCK

VARIOUS ANALYTES

100ng/µL O2SI — 1000µL — 10mL — 10ng/µL — Hexane #010711A

CAT: 180015-09
LOT: 176672-29350
OP: 2/13/12
EX: 2/13/13

2/13/12
EX: 11/2/12

DCA
DBCP
TCMX

5000ng/µL O2SI — 20mL — 10ng/µL

CAT: 130070-01
LOT: 154164-29416
OP: 11/2/11
EX: 11/2/12

_SEP011

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	120206A	Extraction Method	SEP011	Units	mL

Spiked ID 1	Diesel Spike 12/28/11 BX 03/28/12		Surrogate ID 1	THC Surrogate 176405-29682	
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:	02/15/12 0:00	

pH1			Water Bath Temp Criteria	80 °C
pH2				
pH3				

Spiked By: DL **Date** 02/06/12 **Witnessed By:** GH **Date** 02/06/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	120206A Blk				0.250	1	1000	5	7	02/06/12 10:30	
						equip	E-WB5				
2	120206A LCS-1		1	1	0.250	1	1000	5	7	02/06/12 10:30	
						equip	E-WB5				
3	AY54008	AY54008W01			0.250	1	1020	5	7	02/06/12 10:30	66851-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
4	AY54074	AY54074W07			0.250	1	1020	5	7	02/06/12 10:30	66864-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
5	AY54075	AY54075W07			0.250	1	1020	5	7	02/06/12 10:30	66864-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
6	AY54077 MS-1	AY54077W03	1	1	0.250	1	1050	5	7	02/06/12 10:30	66863-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
7	AY54077 MSD-1	AY54077W07	1	1	0.250	1	1050	5	7	02/06/12 10:30	66863-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
8	AY54077	AY54077W01			0.250	1	1050	5	7	02/06/12 10:30	66863-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
9	AY54078	AY54078W02			0.250	1	1050	5	7	02/06/12 10:30	66863-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
10	AY54079	AY54079W02			0.250	1	1050	5	7	02/06/12 10:30	66863-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
11	AY54113	AY54113W02			0.250	1	1050	5	7	02/06/12 10:30	66879-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
12	AY54114	AY54114W02			0.250	1	1050	5	7	02/06/12 10:30	66879-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
13	AY54115	AY54115W02			0.250	1	1050	5	7	02/06/12 10:30	66879-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				

Solvent and Lot#	
MC	BMD51257
Na2SO4	2351C512

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	HA
Date	2/7/12
Time	12:50
Refrigerator	Hobart

	Technician's Initials
Scanned By	GH
Sample Preparation	DL
Extraction	DL/GH
Concentration	JL

Modified	02/06/12 9:55:56 AM

Reviewed By: DRA **Date** 02/07/12

SEP011

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	120206A	Extraction Method	SEP011	Units	mL

Spiked ID 1	Diesel Spike 12/28/11 BX 03/28/12		Surrogate ID 1	THC Surrogate 176405-29682	
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:	02/15/12 0:00	

pH1			Water Bath Temp Criteria	80 °C
pH2				
pH3				

Spiked By: DL **Date** 02/06/12 **Witnessed By:** GH **Date** 02/06/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
14	AY54116	AY54116W03			0.250	1	1050	5	7	02/06/12 10:30	66879-2 WEEK RUSH -- Amber Liter
						equip	B-WB6				

DRA 2/7/12

Solvent and Lot#	
MC	BMD51257
Na2SO4	2351C512

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	
Date	
Time	
Refrigerator	

	Technician's Initials
Scanned By	GH
Sample Preparation	DL
Extraction	DL/GH
Concentration	JL

Modified	02/06/12 9:55:56 AM

Reviewed By: DRA **Date** 02/07/12

Injection Log

Directory: G:\APOLLO\DATA\120210

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	210004.D	1	DIESEL 10/1000 2/10/12	Mix(A)	2-10-12 15:49:00
2	5	210005.D	1	DIESEL 100/1000	Mix(A)	2-10-12 16:13:08
3	6	210006.D	1	DIESEL 400/1000	Mix(A)	2-10-12 16:37:20
4	7	210007.D	1	DIESEL 600/1000	Mix(A)	2-10-12 17:01:40
5	8	210008.D	1	DIESEL 800/1000	Mix(A)	2-10-12 17:25:59
6	9	210009.D	1	DIESEL 1000/1000	Mix(A)	2-10-12 17:50:15
7	10	210010.D	1	DIESEL 2ND SRC 400/1000 2/10/12	Mix(A)	2-10-12 18:14:27
8	17	210017.D	1	THC SURR 50/1000 2/10/12	Mix(C)	2-10-12 21:02:12
9	18	210018.D	1	THC SURR 100/1000	Mix(C)	2-10-12 21:25:57
10	19	210019.D	1	THC SURR 400/1000	Mix(C)	2-10-12 21:49:45
11	20	210020.D	1	THC SURR 600/1000	Mix(C)	2-10-12 22:13:31
12	21	210021.D	1	THC SURR 800/1000	Mix(C)	2-10-12 22:37:15
13	22	210022.D	1	THC SURR 1000/1000	Mix(C)	2-10-12 23:00:58
14	78	210078.D	1	DIESEL 400/1000 2/10/12	Mix(A)	2-13-12 14:21:19
15	88	210088.D	5	120206A BLK 5/1000	Water	2-13-12 18:20:22
16	89	210089.D	5	120206A LCS-1 5/1000	Water	2-13-12 18:44:01
17	91	210091.D	4.90196	AY54074W07 5/1020	Water	2-13-12 19:31:24
18	92	210092.D	4.90196	AY54075W07 5/1020	Water	2-13-12 19:55:03
19	95	210095.D	1	DIESEL 400/1000 2/10/12	Mix(A)	2-13-12 21:05:47

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
QC Summary

Method Blank
EPA 8270D SIM

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **120208W-54074 - 163961**
Batch ID: #SIMHC-120208AW

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	02/08/12	02/11/12
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
BLANK	SURROGATE: 2-FLUORBIPHENY	62.8	50-110			%	02/08/12	02/11/12
BLANK	SURROGATE: NITROBENZENE-	66.3	40-110			%	02/08/12	02/11/12
BLANK	SURROGATE: TERPHENYL-D14 (	56.6	50-135			%	02/08/12	02/11/12

Quant Method:SIM2.M
Run #:0210L025
Instrument:Linus
Sequence:L111027
Initials:LF

GC SC-Blank-REG MDLs
Printed: 02/16/12 11:24:23 AM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66864

Case No: 66864 Date Analyzed: 02/11/12

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-FLUORBIPHENYL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120208AW-BLK	Blank	50-110	62.8		40-110	66.3	
120208AW-LCS	Lab Control Spike	50-110	55.5		40-110	76.5	
AY54074	ES062	50-110	58.7		40-110	50.5	
AY54075	ES063	50-110	56.7		40-110	69.5	

Comments: Batch: #SIMHC-120208AW

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66864

Case No: 66864 Date Analyzed: 02/11/12

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: TERPHENYL-D14 (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
120208AW-BLK	Blank	50-135	56.6				
120208AW-LCS	Lab Control Spike	50-135	56.5				
AY54074	ES062	50-135	54.0				
AY54075	ES063	50-135	51.7				

Comments: Batch: #SIMHC-120208AW

Laboratory Control Spike Recovery
EPA 8270D SIM

APPL ID: **120208W-54074 LCS - 163961**
Batch ID: #SIMHC-120208AW

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	2.98	74.5	45-105
2-METHYLNAPHTHALENE	4.00	2.43	60.8	45-105
ACENAPHTHENE	4.00	2.80	70.0	45-110
ACENAPHTHYLENE	4.00	2.74	68.5	50-105
ANTHRACENE	4.00	3.56	89.0	55-110
BENZO(A)ANTHRACENE	4.00	3.06	76.5	55-110
BENZO(A)PYRENE	4.00	2.66	66.5	55-110
BENZO(B)FLUORANTHENE	4.00	2.74	68.5	45-120
BENZO(GHI)PERYLENE	4.00	2.72	68.0	40-125
BENZO(K)FLUORANTHENE	4.00	3.92	98.0	45-125
CHRYSENE	4.00	3.63	90.8	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.63	65.8	40-125
FLUORANTHENE	4.00	3.43	85.8	55-115
FLUORENE	4.00	3.31	82.8	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.81	70.3	45-125
NAPHTHALENE	4.00	2.67	66.8	40-100
PHENANTHRENE	4.00	2.89	72.3	50-115
PYRENE	4.00	3.02	75.5	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.11	55.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.53	76.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.13	56.5	50-135

Comments: _____

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	02/08/12
Analysis Date :	02/11/12
Instrument :	Linus
Run :	0210L026
Initials :	LF

Printed: 02/16/12 11:24:31 AM

APPL Standard LCS

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66864

Case No: 66864 Date Analyzed: 02/11/12

Matrix: WATER Instrument: Linus

Blank ID: 120208AW-BLK Time Analyzed: 0011

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120208AW-BLK	Blank	0210L025	02/11/12 0011
120208AW-LCS	Lab Control Spike	0210L026	02/11/12 0037
AY54074	ES062	0210L027	02/11/12 0102
AY54075	ES063	0210L028	02/11/12 0127

Comments: Batch: #SIMHC-120208AW

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 66864
Matrix: Water
ID: SVTUNE 10-27-11

SDG No: 66864
Date Analyzed: 02/10/12
Instrument: Linus
Time Analyzed: 23:28

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	120208A BLK 1/1000	0210L025.D	02/11/12 0:11
2	Lab Control Spike	120208A LCS-1 1/1000	0210L026.D	02/11/12 0:37
3	ES062	AY54074W05 1/1010	0210L027.D	02/11/12 1:02
4	ES063	AY54075W05 1/980	0210L028.D	02/11/12 1:27
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	58.8
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.6
127	40 - 60% of mass 198	53.7
197	0 - 1% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	7.3
275	10 - 30% of mass 198	26.6
365	1 - 100% of mass 198	3.1
441	0.01 - 100% of mass 443	74.2
442	40 - 150% of mass 198	73.3
443	17 - 23% of mass 442	21.0

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66864

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	120208A BLK 1/1000	1749	6.14	801	8.11	1740	9.88
02	120208A LCS-1 1/1000	1833	6.12	896	8.10	1764	9.85
03	AY54074W05 1/1010	1908	6.14	868	8.11	1918	9.88
04	AY54075W05 1/980	1839	6.14	869	8.11	1896	9.88
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.: 66864

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	120208A BLK 1/1000	2454	12.97	1981	14.62		
02	120208A LCS-1 1/1000	2524	12.94	2133	14.59		
03	AY54074W05 1/1010	2655	12.97	2124	14.63		
04	AY54075W05 1/980	2434	12.97	2050	14.63		
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Sample Data

EPA 8270D SIM

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

Attn: Max Solmssen

Project: RED HILL/1022-015

Sample ID: ES062

Sample Collection Date: 02/01/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66864

APPL ID: AY54074

QCG: #SIMHC-120208AW-163961

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	02/08/12	02/11/12
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
8270D-SIM	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	58.7	50-110			%	02/08/12	02/11/12
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	50.5	40-110			%	02/08/12	02/11/12
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	54.0	50-135			%	02/08/12	02/11/12

Quant Method: SIM2.M
Run #: 0210L027
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 02/16/12 11:24:36 AM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0210L027.D Vial: 27
Acq On : 11 Feb 12 1:02 Operator: LF
Sample : AY54074W05 1/1010 Inst : Linus
Misc : Multiplr: 0.99

Quant Time: Feb 14 14:43 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Feb 10 11:31:36 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.14	136	1908	2.50000 ppb	0.05
6) Acenaphthene-D10(IS)	8.11	164	868	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.88	188	1918	2.50000 ppb	0.04
15) Chrysene-D12(IS)	12.97	240	2655	2.50000 ppb	0.05
21) Perylene-D12(IS)	14.63	264	2124	2.50000 ppb	0.07
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.55	82	345	0.99962 ppb	0.01
Spiked Amount 1.980			Recovery = 50.500%		
7) Surrogate Recovery (FBP)	7.39	172	909	1.16311 ppb	0.04
Spiked Amount 1.980			Recovery = 58.732%		
17) Surrogate Recovery (TPH)	11.71	244	1236	1.07043 ppb	0.00
Spiked Amount 1.980			Recovery = 54.035%		

Target Compounds Qvalue

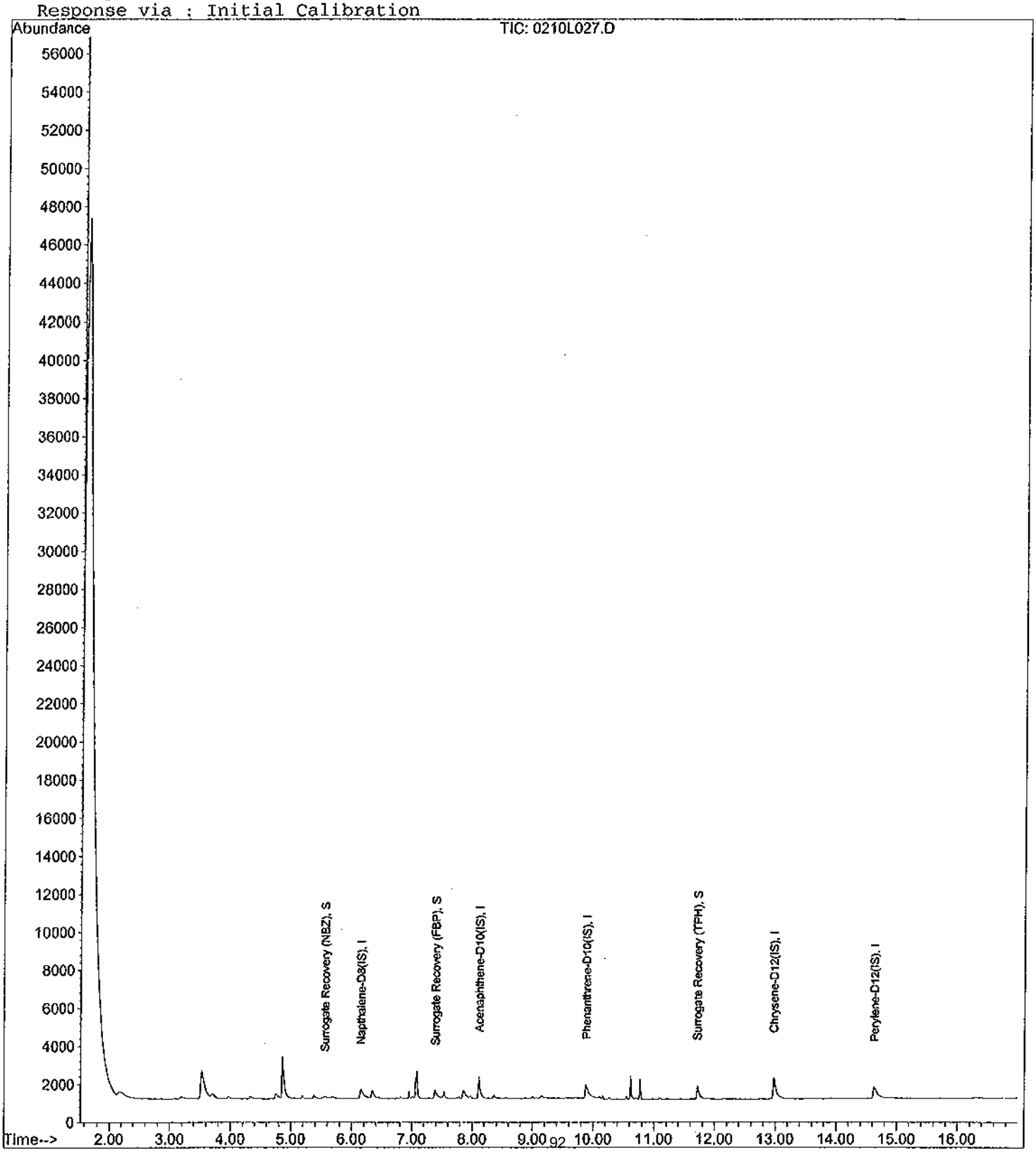
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0210L027.D Vial: 27
Acq On : 11 Feb 12 1:02 Operator: LF
Sample : AY54074W05 1/1010 Inst : Linus
Misc : Multiplr: 0.99

Quant Time: Feb 14 14:43 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Feb 10 11:31:36 2012
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: Max Solmssen
Project: RED HILL/1022-015
Sample ID: ES063
Sample Collection Date: 02/01/12

ARF: 66864
APPL ID: AY54075
QCG: #SIMHC-120208AW-163961

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	02/08/12	02/11/12
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
8270D-SIM	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	56.7	50-110			%	02/08/12	02/11/12
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	69.5	40-110			%	02/08/12	02/11/12
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	51.7	50-135			%	02/08/12	02/11/12

Quant Method: SIM2.M
Run #: 0210L028
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 02/16/12 11:24:36 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0210L028.D Vial: 28
Acq On : 11 Feb 12 1:27 Operator: LF
Sample : AY54075W05 1/980 Inst : Linus
Misc : Multiplr: 1.02

Quant Time: Feb 14 14:45 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Feb 10 11:31:36 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

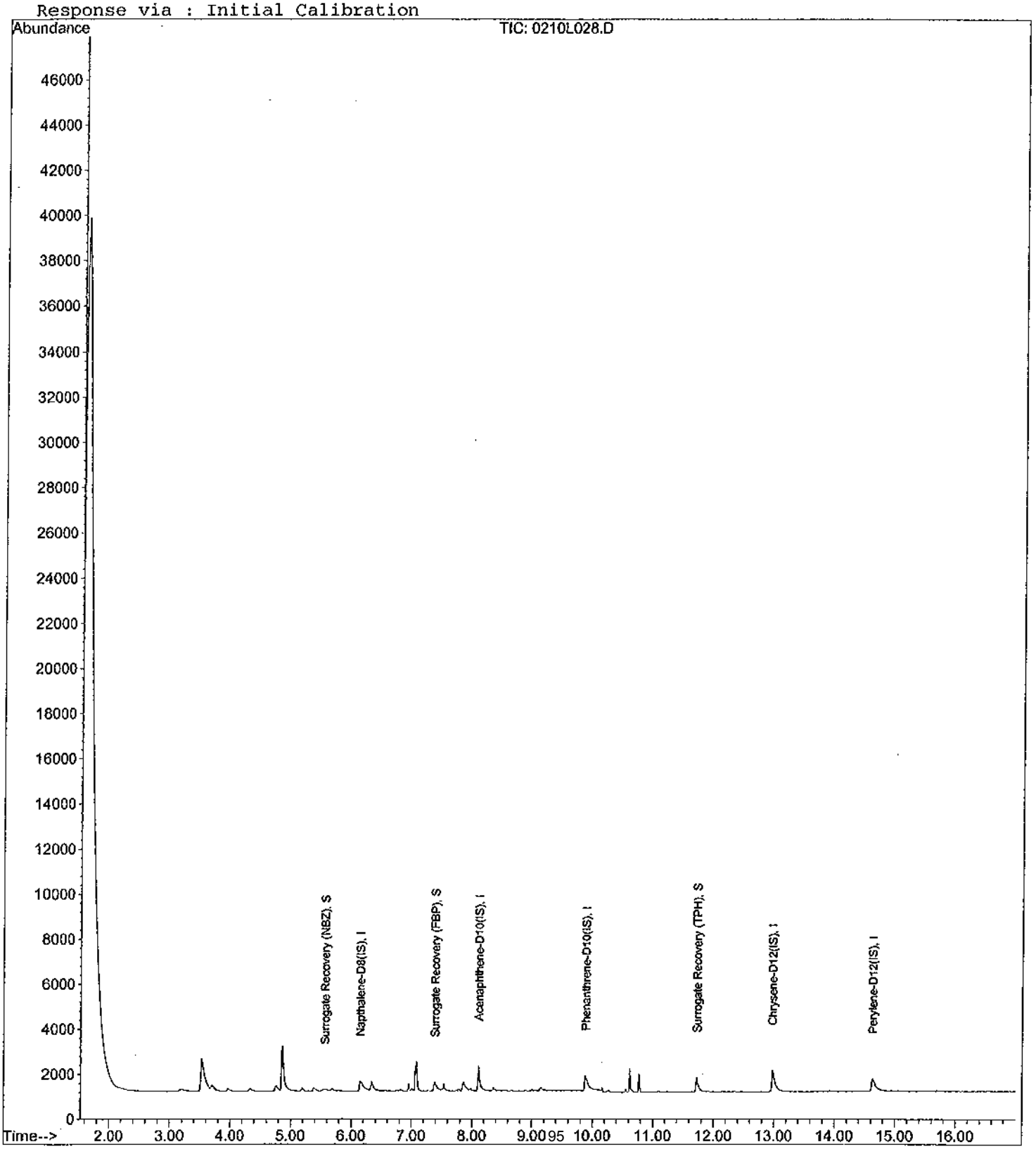
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.14	136	1839	2.50000 ppb	0.05
6) Acenaphthene-D10(IS)	8.11	164	869	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.88	188	1896	2.50000 ppb	0.04
15) Chrysene-D12(IS)	12.97	240	2434	2.50000 ppb	0.05
21) Perylene-D12(IS)	14.63	264	2050	2.50000 ppb	0.07
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.56	82	458	1.41897 ppb	0.02
Spiked Amount 2.041			Recovery = 69.531%		
7) Surrogate Recovery (FBP)	7.39	172	878	1.15650 ppb	0.04
Spiked Amount 2.041			Recovery = 56.693%		
17) Surrogate Recovery (TPH)	11.72	244	1085	1.05636 ppb	0.01
Spiked Amount 2.041			Recovery = 51.744%		
Target Compounds					Qvalue

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0210L028.D Vial: 28
Acq On : 11 Feb 12 1:27 Operator: LF
Sample : AY54075W05 1/980 Inst : Linus
Misc : Multiplr: 1.02

Quant Time: Feb 14 14:45 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Feb 10 11:31:36 2012
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Calibration Data

EPA 8270C SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No:
Matrix:
SDG No: 66864
Initial Cal. Date: 10/27/11
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						
3	TM	Naphthalene	1.848	2.053	1.897	1.975	1.484	1.725	1.497	1.455			0.45	8.7	S	
4	TM	2-Methylnaphthalene	0.8339	0.8429	0.8095	0.9618	0.8735	1.026	0.9052	0.8919			1.7	14	TM	
5	TM	1-Methylnaphthalene	1.006	1.140	1.127	1.262	0.9445	1.066	0.8694	0.8324			0.89	8.0	TM	
6	I	Acenaphthene-D10(IS)											1.0	14	TM	
7	S	Surrogate Recovery (FBP)	2.266	2.373	2.477	2.606	2.184	2.112	1.948	1.864						
8	TM	Acenaphthylene	3.556	3.474	3.469	3.747	3.046	3.265	3.097	2.960			2.2	11	S	
9	*TM	Acenaphthene	2.197	2.003	2.015	2.153	1.761	1.820	1.687	1.595			3.3	8.4	TM	
10	TM	Fluorene	2.179	2.202	2.246	2.358	1.948	2.057	1.915	1.761			1.9	12	*TM	
11	I	Phenanthrene-D10(IS)											2.1	9.5	TM	
12	TM	Phenanthrene	1.851	1.670	1.765	1.775	1.470	1.719	1.377	1.248						
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			1.6	13	TM	
15	I	Chrysene-D12(IS)											2.8	13	*TM	
16	TM	Pyrene	2.537	2.408	2.291	2.412	2.045	2.168	1.892	1.849						
17	S	Surrogate Recovery (TPH)	1.147	1.155	1.070	1.235	1.097	1.067	0.9366	0.9044			2.2	12	TM	
18	TM	Benz (a) anthracene	1.767	1.435	1.243	1.561	1.267	1.372	1.372	1.578			1.1	10	S	
19	TM	Chrysene	2.135	2.066	2.037	2.114	1.981	2.084	1.655	1.438			1.4	12	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			1.9	13	TM	
21	I	Perylene-D12(IS)											1.5	10	TM	
22	TM	Benzo (b) fluoranthene	1.711	1.652	1.826	1.857	1.789	1.866	1.765	1.625						
23	TM	Benzo (k) fluoranthene	2.136	1.797	1.882	1.854	1.869	1.935	1.561	1.548			1.8	5.2	TM	
24	*TM	Benzo (a) pyrene	2.001	1.899	1.650	1.686	1.673	1.757	1.585	1.533			1.8	11	TM	
25	TM	Dibenz (a,h) anthracene	1.773	1.577	1.175	1.438	1.356	1.477	1.399	1.379			1.7	9.2	*TM	
26	TM	Benzo (g,h,i) perylene	1.410	1.754	1.503	1.639	1.449	1.558	1.444	1.446			1.4	12	TM	
27													1.5	7.8	TM	
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

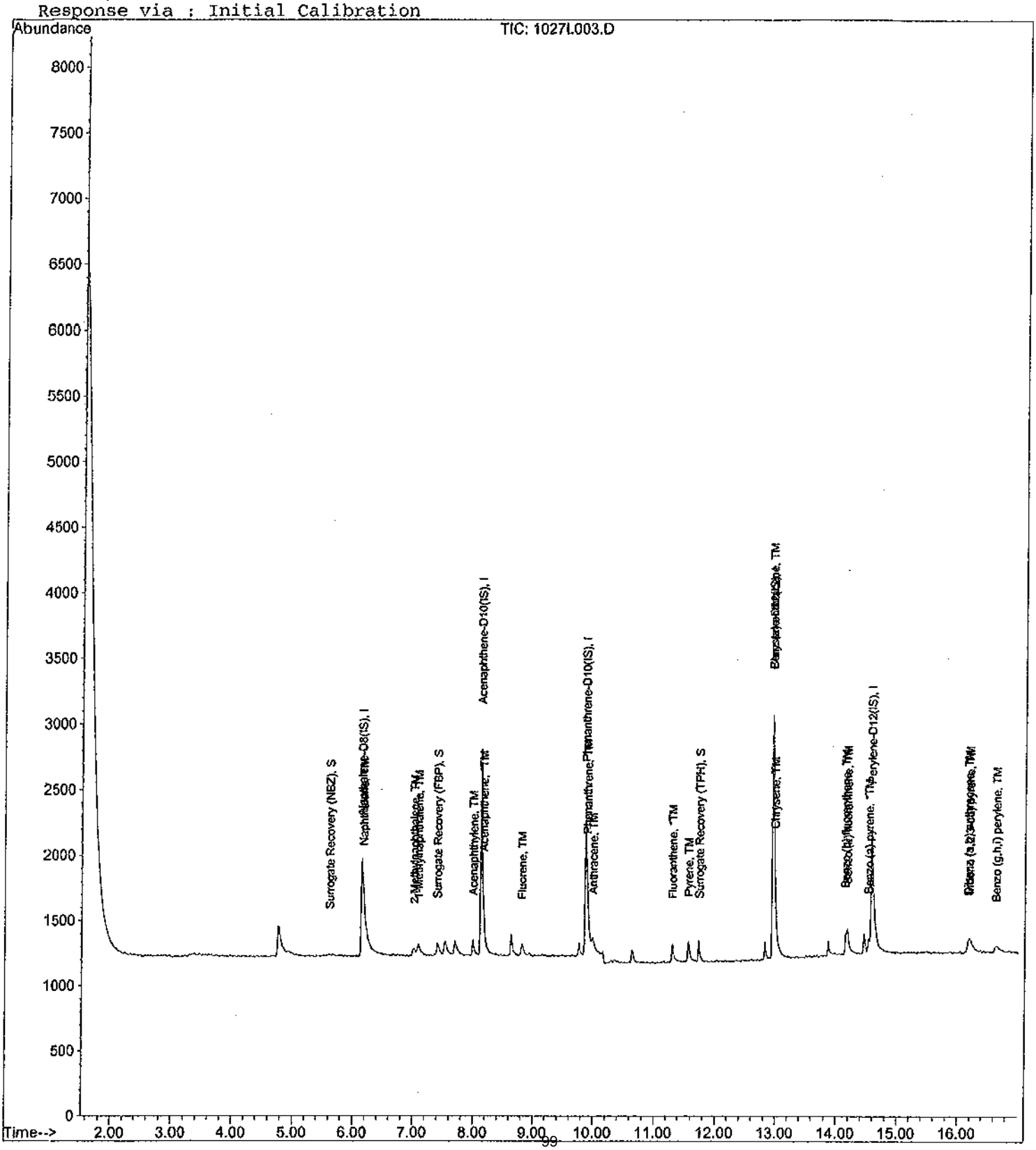
(#) = qualifier out of range (m) = manual integration

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

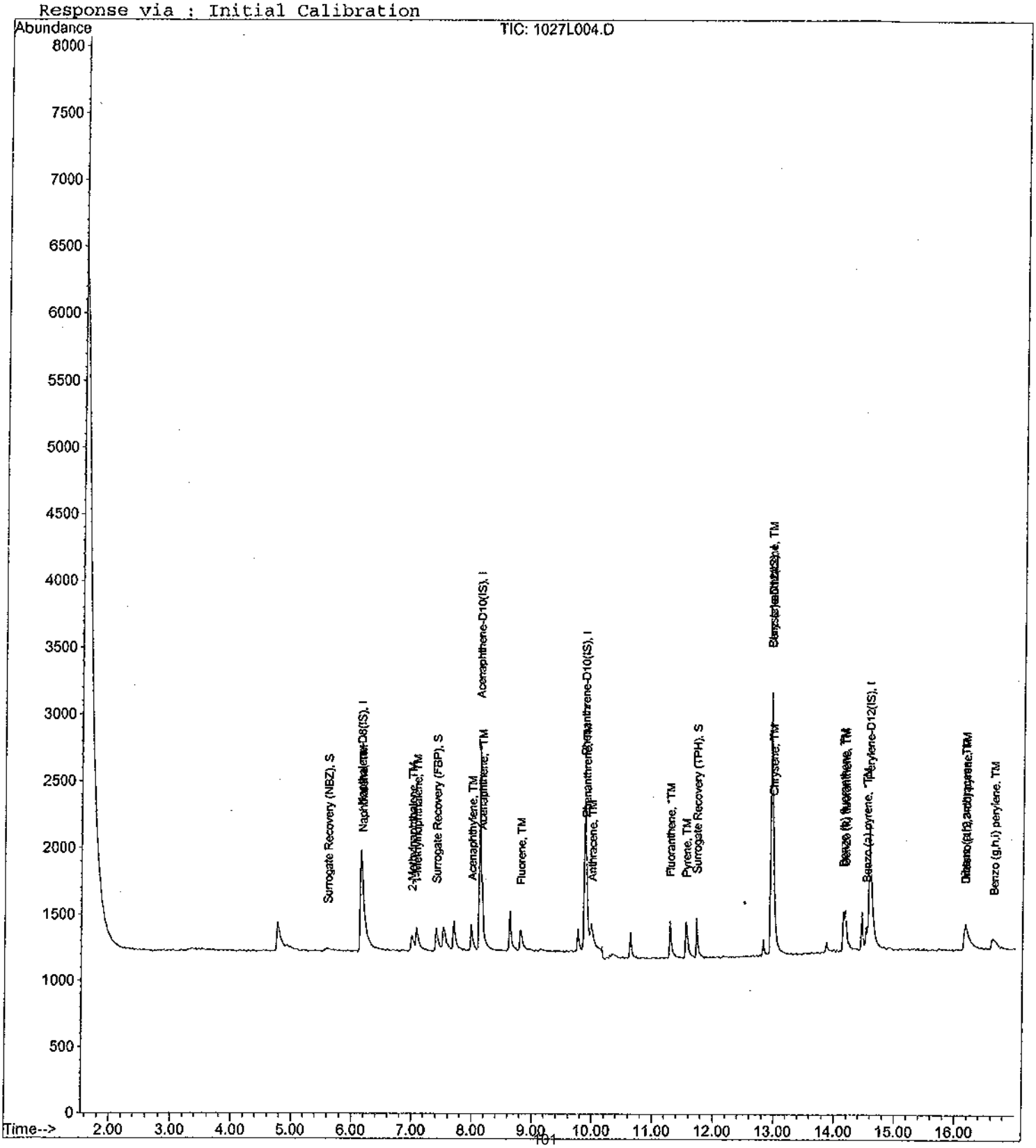
(#) = qualifier out of range (m) = manual integration

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

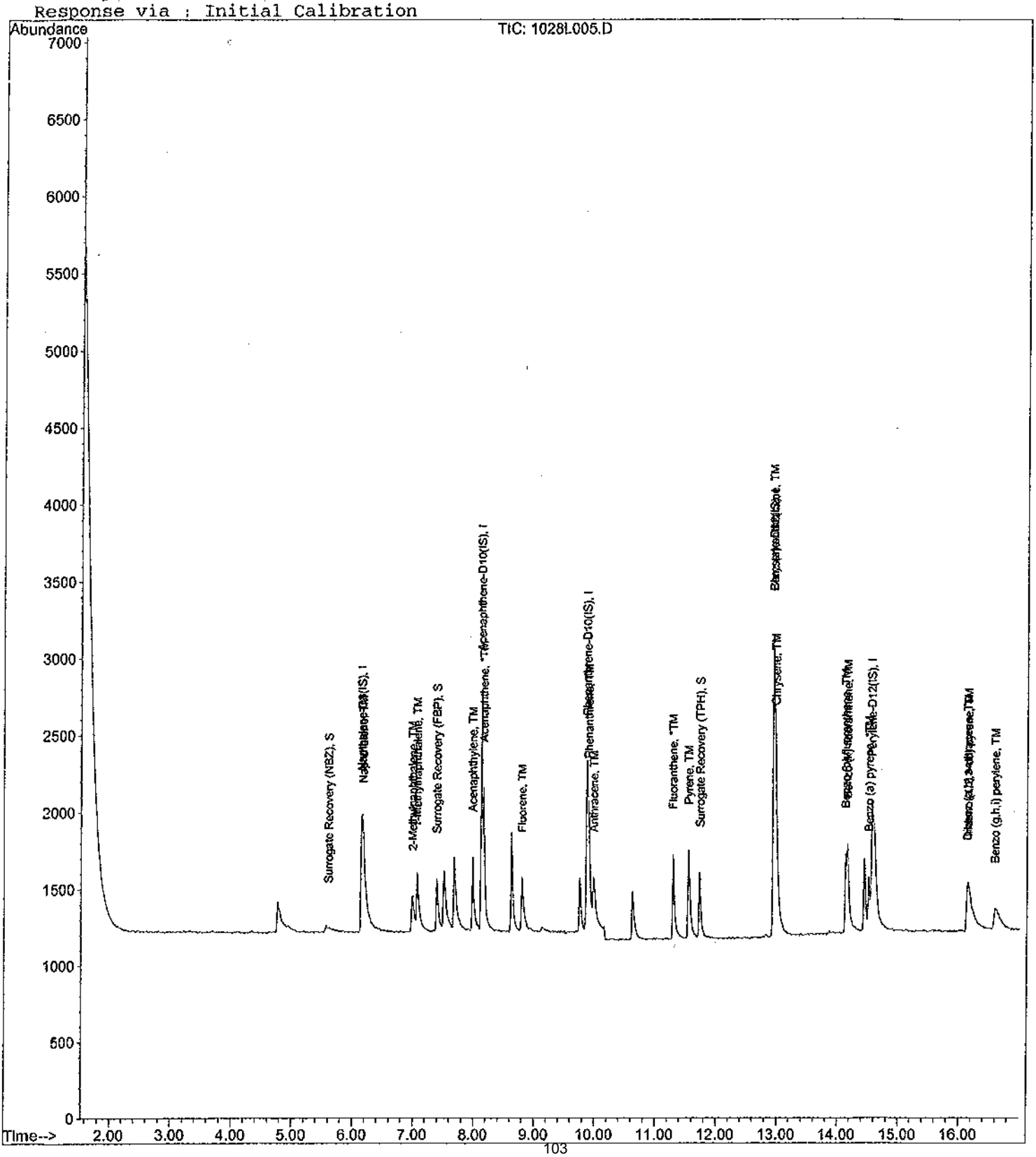
(#) = qualifier out of range (m) = manual integration

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

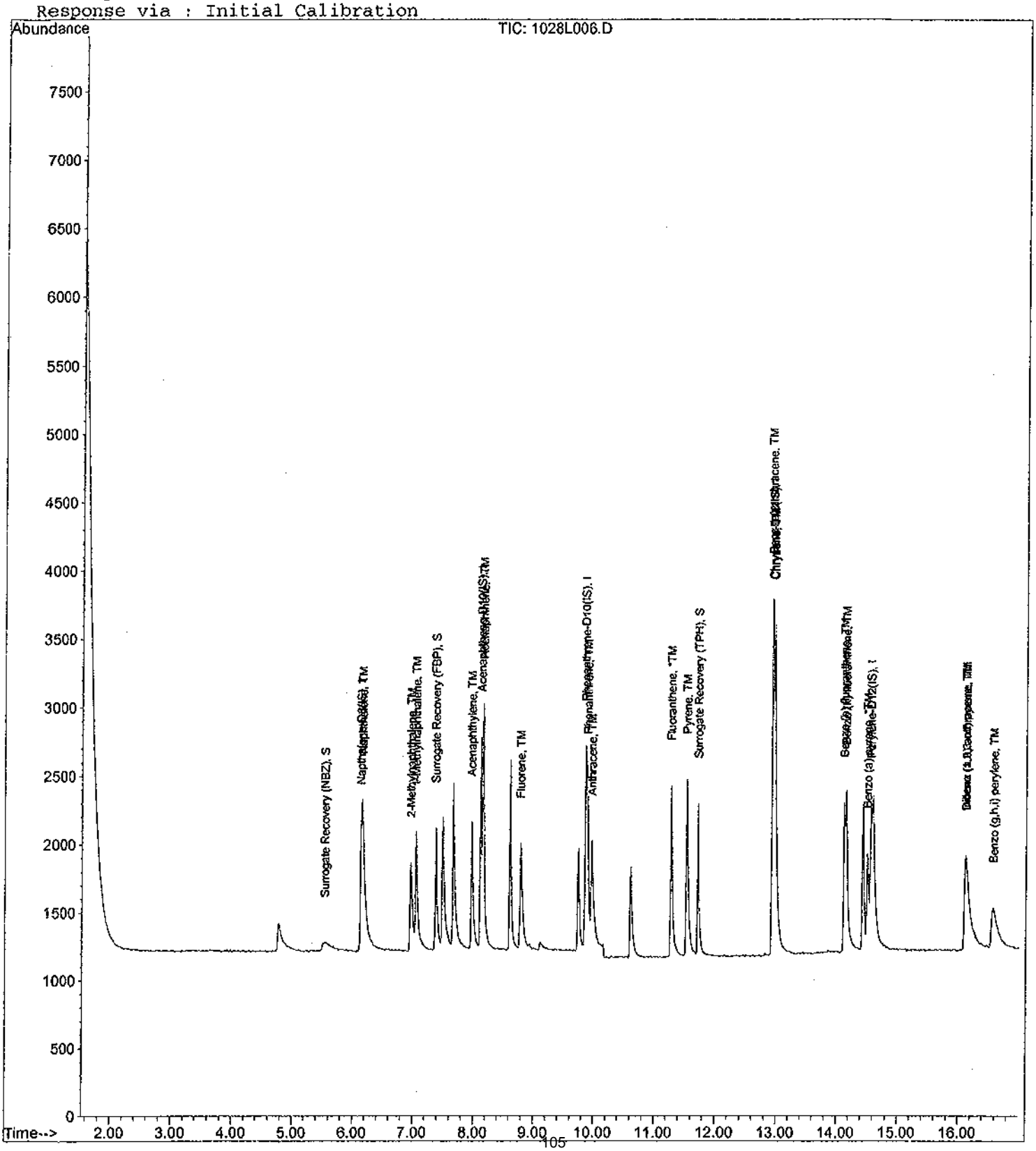
(#) = qualifier out of range (m) = manual integration

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

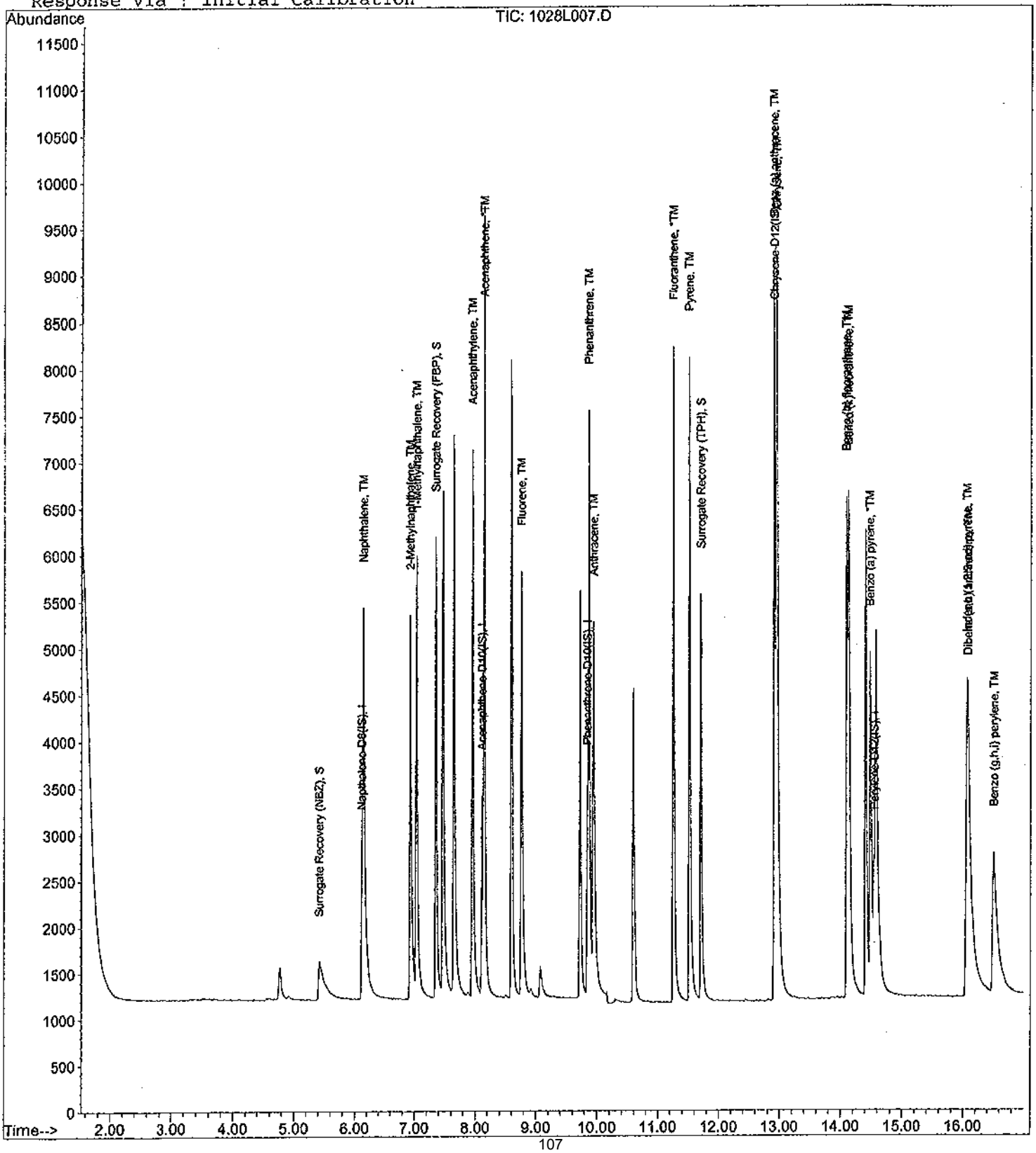
Quantitation Report

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

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

Quant Time: Oct 30 10:40 2011 Quant Results File: SIM2.RES

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



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

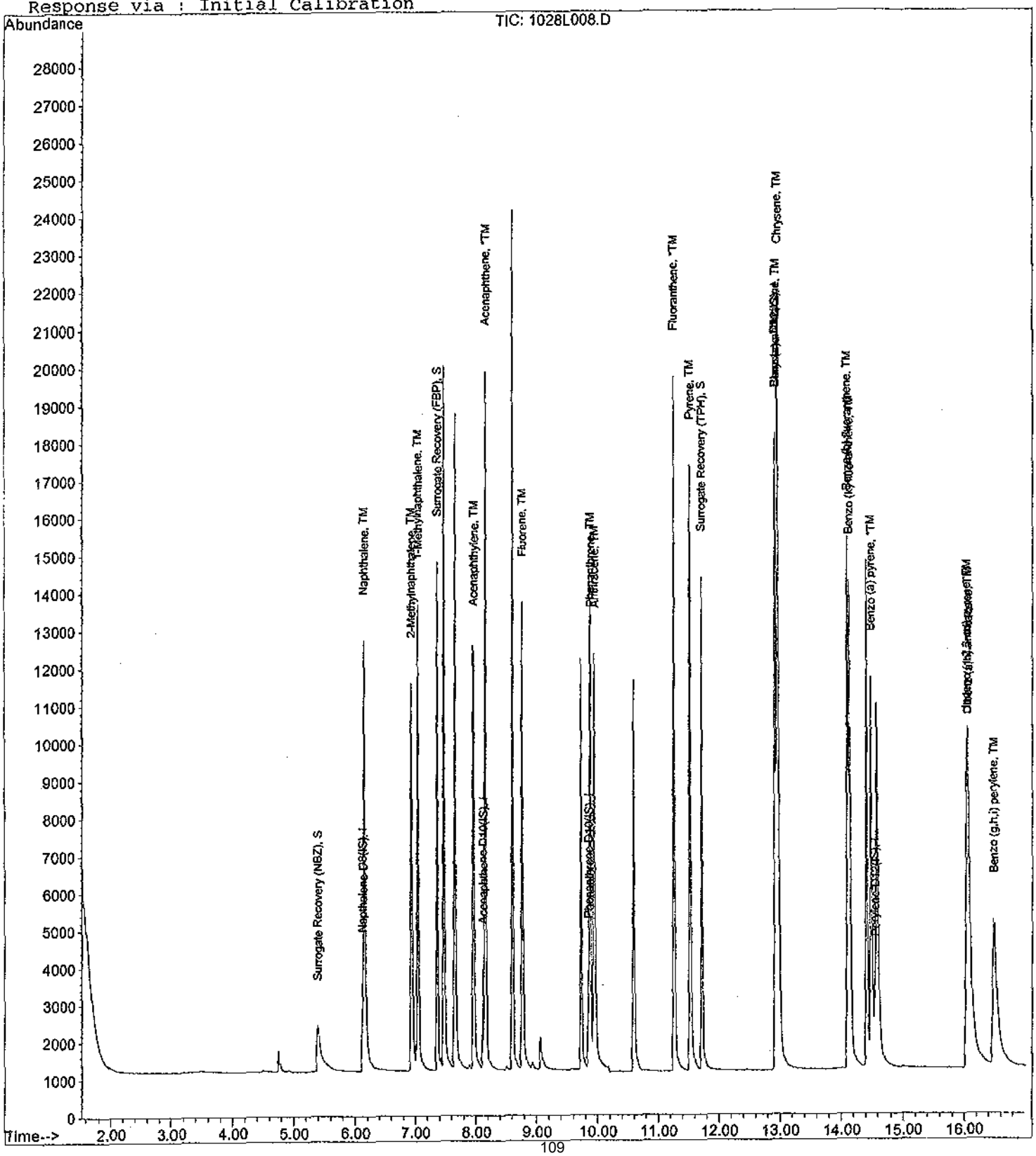
Quantitation Report

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

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

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

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



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

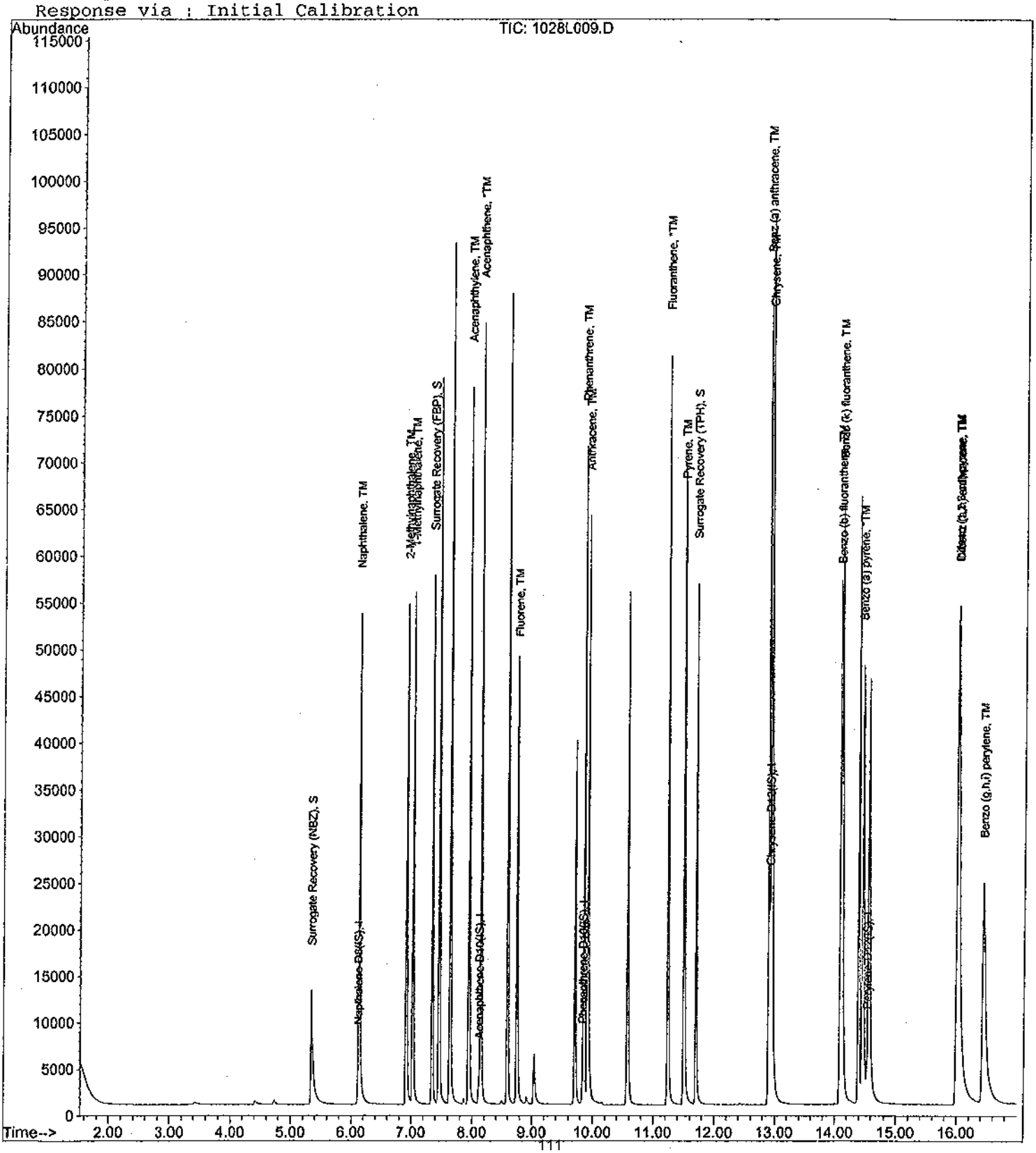
(#) = qualifier out of range (m) = manual integration

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
Acq On : 28 Oct 11 13:14
Sample : 100ug/ml PAH
Misc :

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

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

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

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) 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

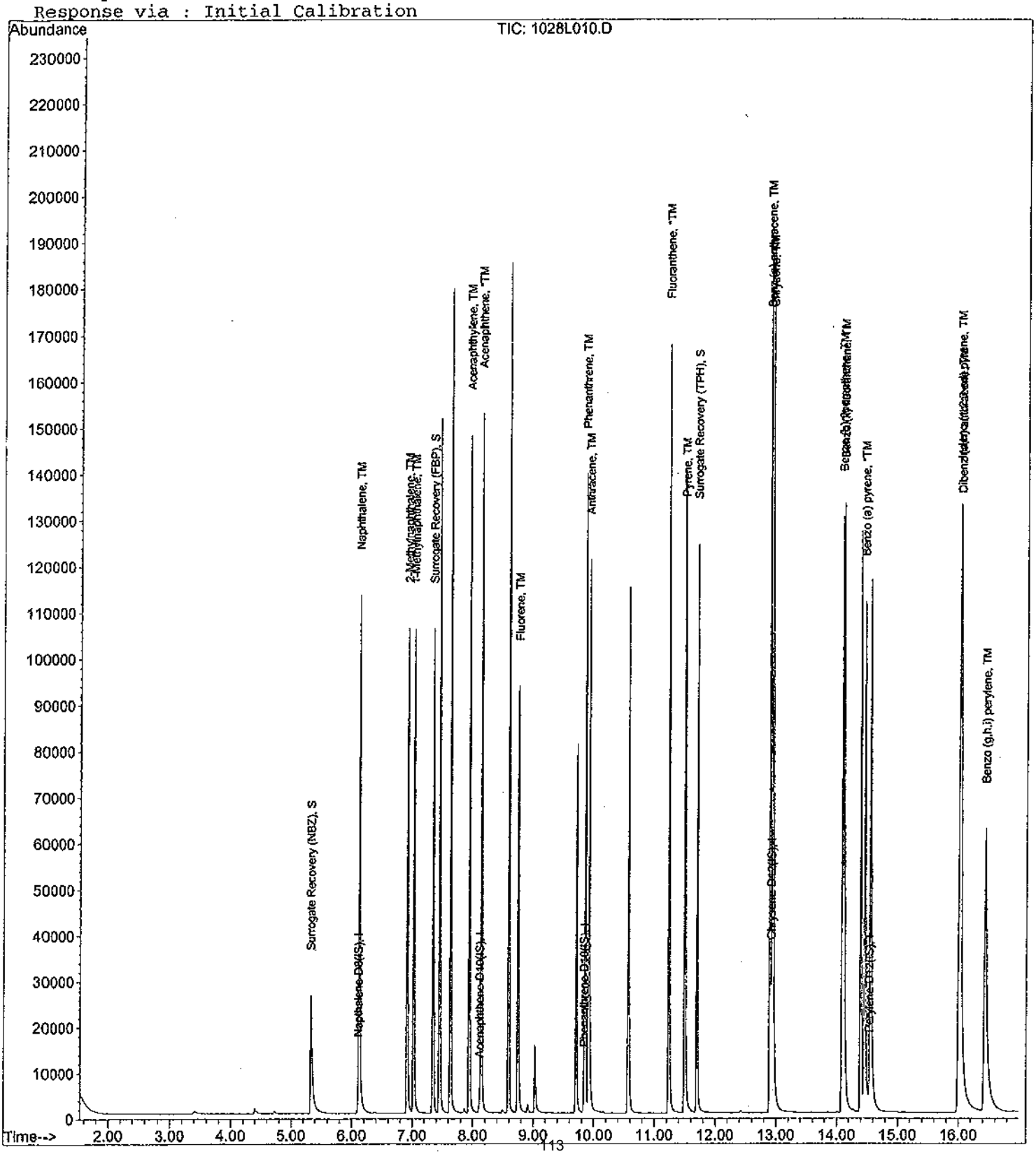
(#) = qualifier out of range (m) = manual integration

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: 66864
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
Acq On : 28 Oct 11 13:40
Sample : 5.0ug/ml SS PAH 10-27-11
Misc :

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

Quant Time: Oct 30 11:17 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (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

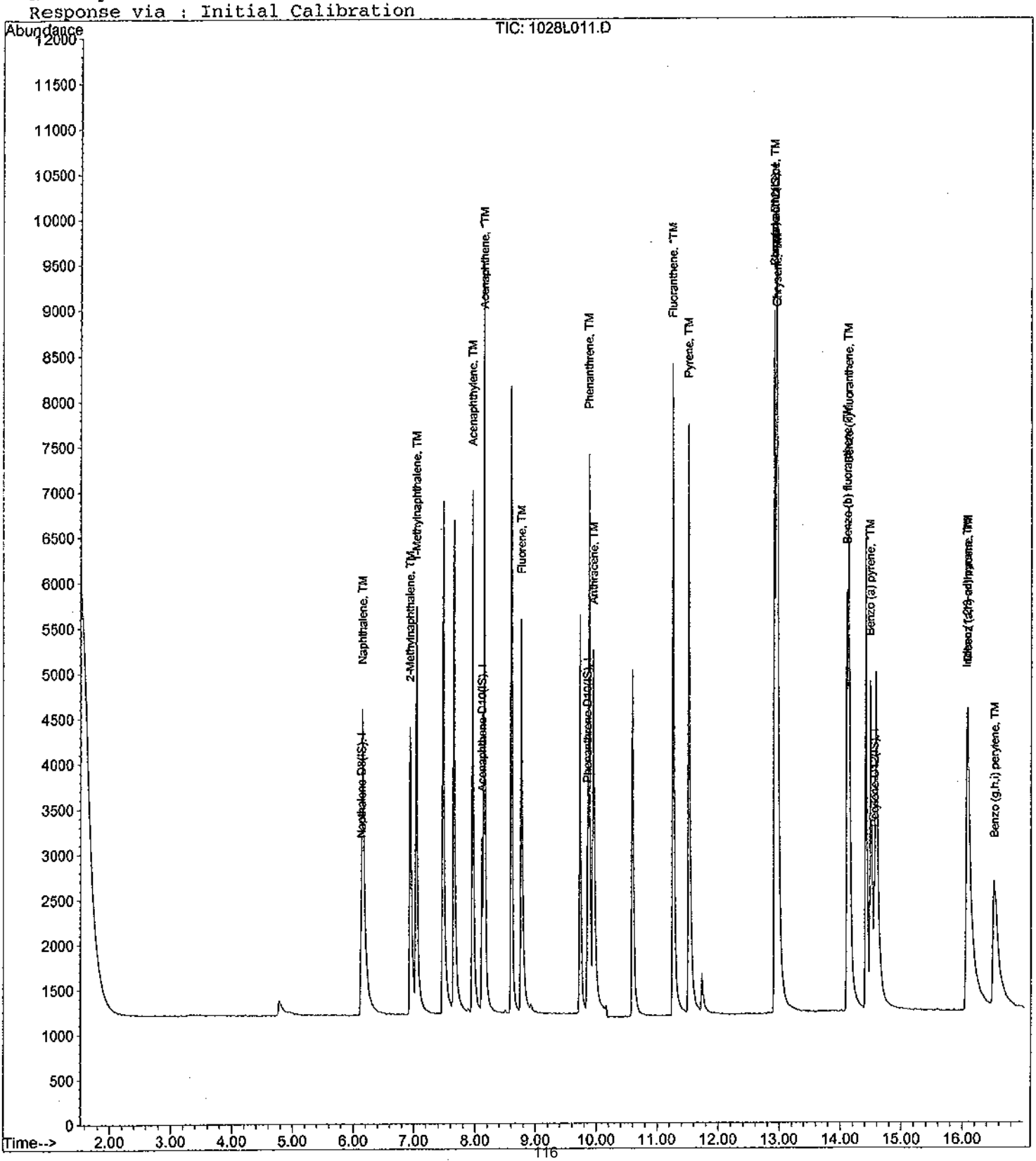
Quantitation Report

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

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

Quant Time: Oct 30 11:17 2011 Quant Results File: SIM2.RES

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



EPA 8270C SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No: L66864

Case No: Date Analyzed: 02/10/12

Matrix: Instrument: Linus

Initial Cal. Date: 10/27/11

Data File: 0210L024.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	S	Surrogate Recovery (NBZ)	0.4477	0.4136	7.6	S	
3	TM	Naphthalene	1.742	1.642	5.7	TM	
4	TM	2-Methylnaphthalene	0.8931	0.8231	7.8	TM	
5	TM	1-Methylnaphthalene	1.031	1.056	2.4	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	S	Surrogate Recovery (FBP)	2.229	1.916	14	S	
8	TM	Acenaphthylene	3.327	2.836	15	TM	
9	*TM	Acenaphthene	1.904	1.661	13	*TM	
10	TM	Fluorene	2.083	1.839	12	TM	
11	I	Phenanthrene-D10(IS)	ISTD			I	
12	TM	Phenanthrene	1.609	1.387	14	TM	
13	TM	Anthracene	1.634	1.727	5.7	TM	
14	*TM	Fluoranthene	2.792	2.632	5.7	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	2.200	1.874	15	TM	
17	S	Surrogate Recovery (TPH)	1.077	0.9358	13	S	
18	TM	Benz (a) anthracene	1.449	1.217	16	TM	
19	TM	Chrysene	1.939	1.939	0.04	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.502	1.281	15	TM	
21	I	Perylene-D12(IS)	ISTD			I	
22	TM	Benzo (b) fluoranthene	1.761	1.517	14	TM	
23	TM	Benzo (k) fluoranthene	1.823	2.127	17	TM	
24	*TM	Benzo (a) pyrene	1.723	1.496	13	*TM	
25	TM	Dibenz (a,h) anthracene	1.447	1.277	12	TM	
26	TM	Benzo (g,h,i) perylene	1.525	1.369	10	TM	
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			10.9		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0210L024.D Vial: 24
Acq On : 10 Feb 12 23:46 Operator: LF
Sample : 5.0ug/ml PAH 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 14 14:40 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Feb 10 11:31:36 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

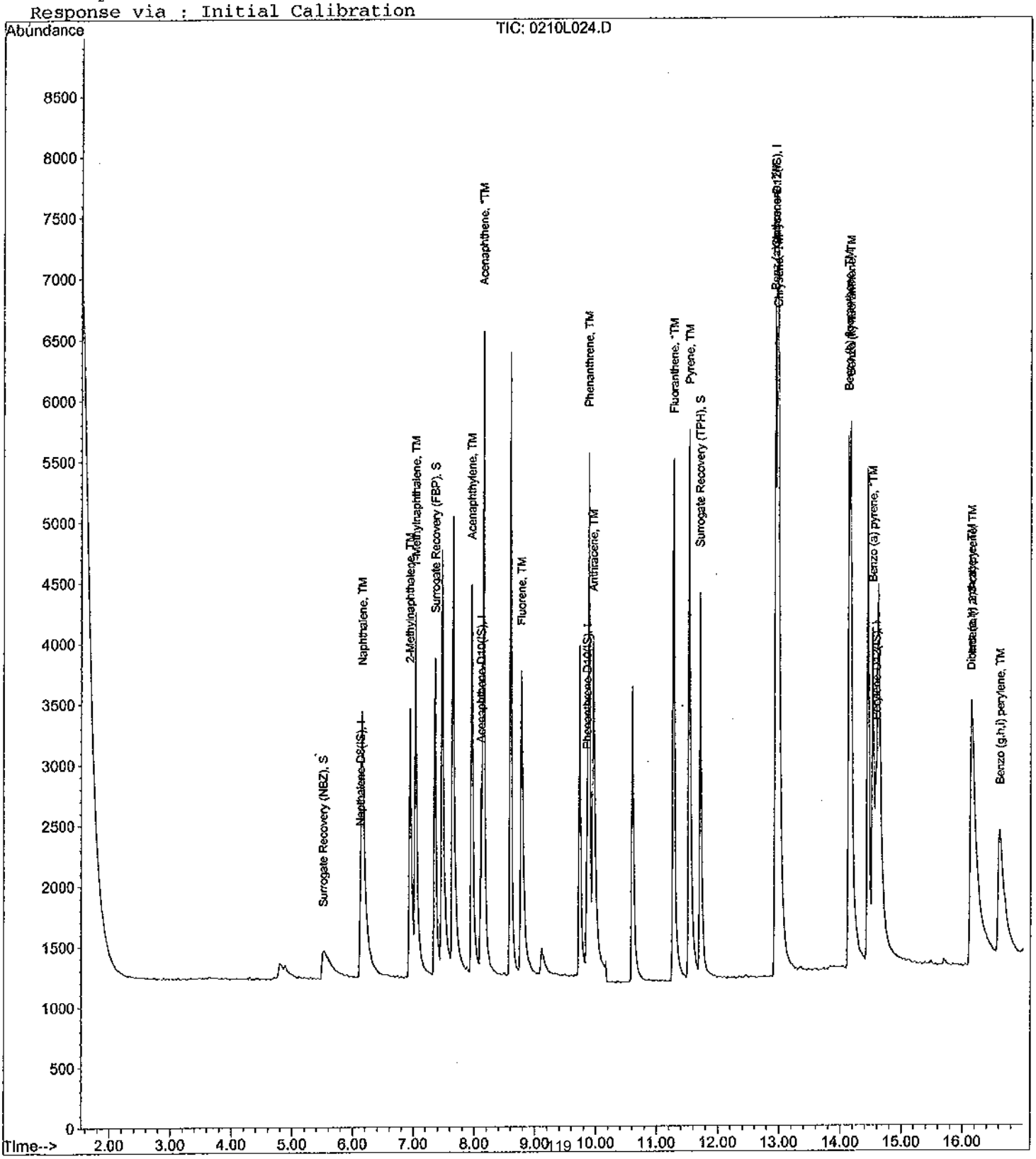
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.12	136	1874	2.50000 ppb	0.02
6) Acenaphthene-D10(IS)	8.10	164	922	2.50000 ppb	-0.01
11) Phenanthrene-D10(IS)	9.85	188	1612	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.94	240	2321	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.58	264	1948	2.50000 ppb	0.02
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.50	82	1550	4.61823 ppb	-0.04
Spiked Amount 2.000			Recovery	= 230.900%	
7) Surrogate Recovery (FBP)	7.35	172	3534	4.29964 ppb	0.00
Spiked Amount 2.000			Recovery	= 215.000%	
17) Surrogate Recovery (TPH)	11.70	244	4344	4.34652 ppb	-0.01
Spiked Amount 2.000			Recovery	= 217.350%	
Target Compounds					Qvalue
3) Naphthalene	6.14	128	6154	4.71345 ppb	98
4) 2-Methylnaphthalene	6.93	142	3085	4.60804 ppb	100
5) 1-Methylnaphthalene	7.02	142	3956	5.11914 ppb	84
8) Acenaphthylene	7.94	152	5230	4.26282 ppb	97
9) Acenaphthene	8.13	154	3062	4.36072 ppb	92
10) Fluorene	8.76	166	3391	4.41358 ppb	97
12) Phenanthrene	9.87	178	4473	4.31062 ppb	98
13) Anthracene	9.94	178	5567	5.28378 ppb	95
14) Fluoranthene	11.27	202	8486	4.71409 ppb	94
16) Pyrene	11.53	202	8701	4.25965 ppb	95
18) Benz (a) anthracene	12.93	228	5650	4.19922 ppb	98
19) Chrysene	12.97	228	9003	5.00211 ppb	99
20) Indeno (1,2,3-cd) pyrene	16.15	276	5946	4.26272 ppb	90
22) Benzo (b) fluoranthene	14.13	252	5912	4.30795 ppb	98
23) Benzo (k) fluoranthene	14.16	252	8287	5.83483 ppb	99
24) Benzo (a) pyrene	14.52	252	5828	4.34111 ppb	95
25) Dibenz (a,h) anthracene	16.13	278	4976	4.41417 ppb	96
26) Benzo (g,h,i) perylene	16.61	276	5334	4.48774 ppb	98

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0210L024.D Vial: 24
Acq On : 10 Feb 12 23:46 Operator: LF
Sample : 5.0ug/ml PAH 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 14 14:40 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Feb 10 11:31:36 2012
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Raw Data

Method Blank
EPA 8270D SIM

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **120208W-54074 - 163961**
Batch ID: #SIMHC-120208AW

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	02/08/12	02/11/12
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	02/08/12	02/11/12
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	02/08/12	02/11/12
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	02/08/12	02/11/12
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	02/08/12	02/11/12
BLANK	SURROGATE: 2-FLUORBIPHENY	62.8	50-110			%	02/08/12	02/11/12
BLANK	SURROGATE: NITROBENZENE-	66.3	40-110			%	02/08/12	02/11/12
BLANK	SURROGATE: TERPHENYL-D14 (	56.6	50-135			%	02/08/12	02/11/12

Quant Method:SIM2.M
Run #:0210L025
Instrument:Linus
Sequence:L111027
Initials:LF

GC SC-Blank-REG MDLs
Printed: 02/16/12 11:24:39 AM

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0210L025.D Vial: 25
Acq On : 11 Feb 12 00:11 Operator: LF
Sample : 120208A BLK 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 14 14:41 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Feb 10 11:31:36 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

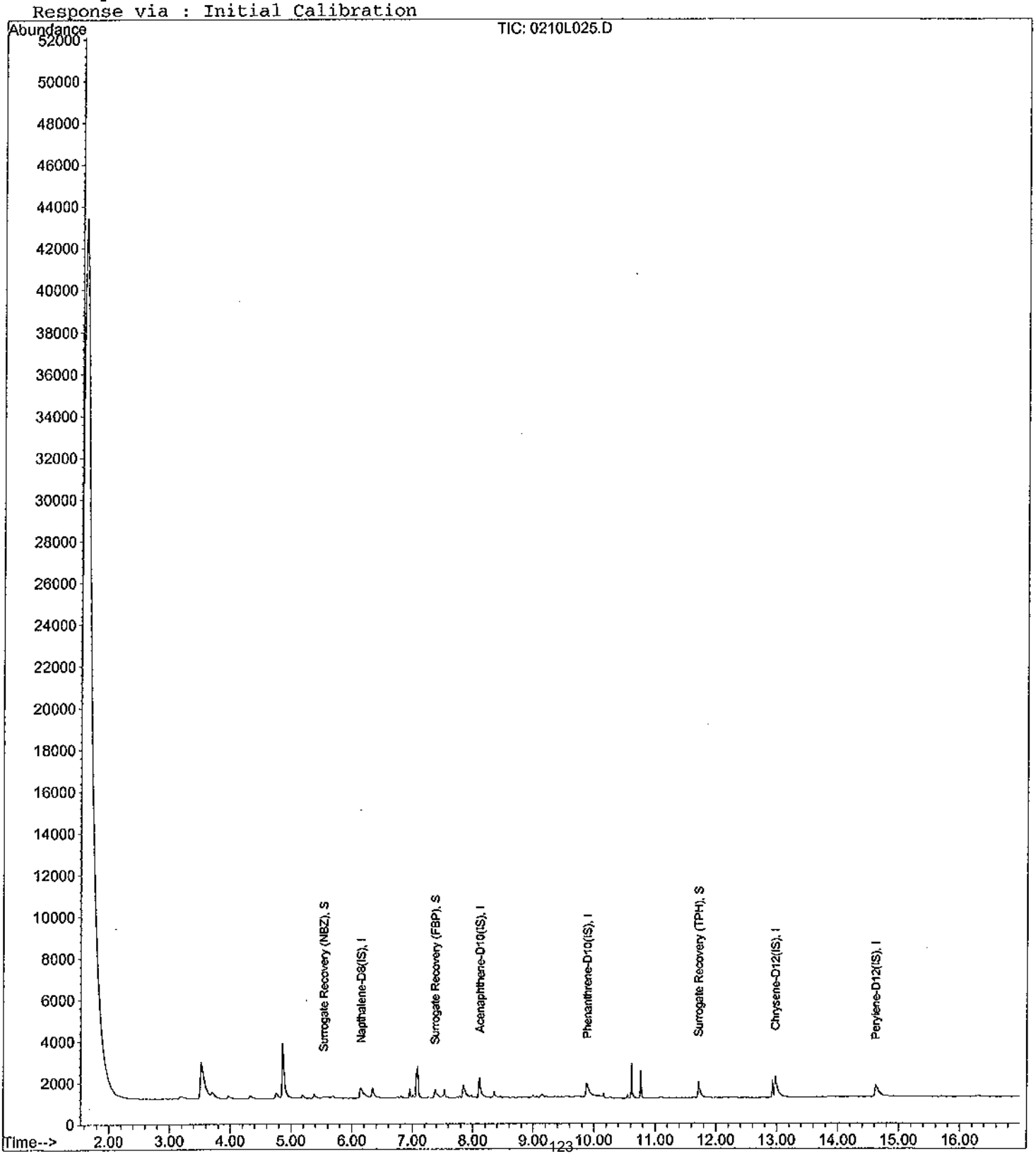
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.14	136	1749	2.50000 ppb	0.05
6) Acenaphthene-D10(IS)	8.11	164	801	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.88	188	1740	2.50000 ppb	0.04
15) Chrysene-D12(IS)	12.97	240	2454	2.50000 ppb	0.05
21) Perylene-D12(IS)	14.62	264	1981	2.50000 ppb	0.06
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.53	82	415	1.32487 ppb	-0.01
Spiked Amount 2.000			Recovery	= 66.250%	
7) Surrogate Recovery (FBP)	7.37	172	896	1.25479 ppb	0.02
Spiked Amount 2.000			Recovery	= 62.750%	
17) Surrogate Recovery (TPH)	11.71	244	1196	1.13184 ppb	0.00
Spiked Amount 2.000			Recovery	= 56.600%	
Target Compounds					Qvalue

Quantitation Report

Data File : M:\LINUS\DATA\L111027\0210L025.D Vial: 25
Acq On : 11 Feb 12 00:11 Operator: LF
Sample : 120208A BLK 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 14 14:41 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Feb 10 11:31:36 2012
Response via : Initial Calibration



Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: **120208W-54074 LCS - 163961**
Batch ID: #SIMHC-120208AW

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	2.98	74.5	45-105
2-METHYLNAPHTHALENE	4.00	2.43	60.8	45-105
ACENAPHTHENE	4.00	2.80	70.0	45-110
ACENAPHTHYLENE	4.00	2.74	68.5	50-105
ANTHRACENE	4.00	3.56	89.0	55-110
BENZO(A)ANTHRACENE	4.00	3.06	76.5	55-110
BENZO(A)PYRENE	4.00	2.66	66.5	55-110
BENZO(B)FLUORANTHENE	4.00	2.74	68.5	45-120
BENZO(GHI)PERYLENE	4.00	2.72	68.0	40-125
BENZO(K)FLUORANTHENE	4.00	3.92	98.0	45-125
CHRYSENE	4.00	3.63	90.8	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.63	65.8	40-125
FLUORANTHENE	4.00	3.43	85.8	55-115
FLUORENE	4.00	3.31	82.8	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.81	70.3	45-125
NAPHTHALENE	4.00	2.67	66.8	40-100
PHENANTHRENE	4.00	2.89	72.3	50-115
PYRENE	4.00	3.02	75.5	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.11	55.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.53	76.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.13	56.5	50-135

Comments:

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	02/08/12
Analysis Date :	02/11/12
Instrument :	Linus
Run :	0210L026
Initials :	LF

Printed: 02/16/12 11:24:40 AM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L111027\0210L026.D Vial: 26
Acq On : 11 Feb 12 00:37 Operator: LF
Sample : 120208A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 14 14:42 2012 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Feb 10 11:31:36 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.12	136	1833	2.50000 ppb		0.02
6) Acenaphthene-D10(IS)	8.10	164	896	2.50000 ppb		-0.01
11) Phenanthrene-D10(IS)	9.85	188	1764	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.94	240	2524	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.59	264	2133	2.50000 ppb		0.04
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.53	82	502	1.52917 ppb		-0.01
Spiked Amount 2.000			Recovery	= 76.450%		
7) Surrogate Recovery (FBP)	7.35	172	889	1.11299 ppb		0.00
Spiked Amount 2.000			Recovery	= 55.650%		
17) Surrogate Recovery (TPH)	11.71	244	1226	1.12805 ppb		0.00
Spiked Amount 2.000			Recovery	= 56.400%		
Target Compounds						Qvalue
3) Naphthalene	6.14	128	3411	2.67098 ppb		97
4) 2-Methylnaphthalene	6.94	142	1589	2.42657 ppb		99
5) 1-Methylnaphthalene	7.02	142	2250	2.97667 ppb		88
8) Acenaphthylene	7.94	152	3265	2.73843 ppb		99
9) Acenaphthene	8.13	154	1914	2.80490 ppb		93
10) Fluorene	8.76	166	2474	3.31349 ppb		99
12) Phenanthrene	9.87	178	3283	2.89120 ppb		98
13) Anthracene	9.94	178	4102	3.55784 ppb		95
14) Fluoranthene	11.27	202	6759	3.43118 ppb	#	93
16) Pyrene	11.53	202	6705	3.01849 ppb		92
18) Benz (a) anthracene	12.94	228	4472	3.05638 ppb		99
19) Chrysene	12.97	228	7099	3.62701 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.17	276	4263	2.81037 ppb		90
22) Benzo (b) fluoranthene	14.14	252	4121	2.74244 ppb		99
23) Benzo (k) fluoranthene	14.16	252	6098	3.92118 ppb		97
24) Benzo (a) pyrene	14.54	252	3909	2.65917 ppb		96
25) Dibenz (a,h) anthracene	16.15	278	3241	2.62570 ppb		95
26) Benzo (g,h,i) perylene	16.61	276	3536	2.71697 ppb		98

$\frac{3411 \times 2.5}{1833 \times 1.742} = 2.67$ VF 2/28/12

(#) = qualifier out of range (m) = manual integration
0210L026.D SIM2.M Tue Feb 14 15:10:15 2012 Page 1

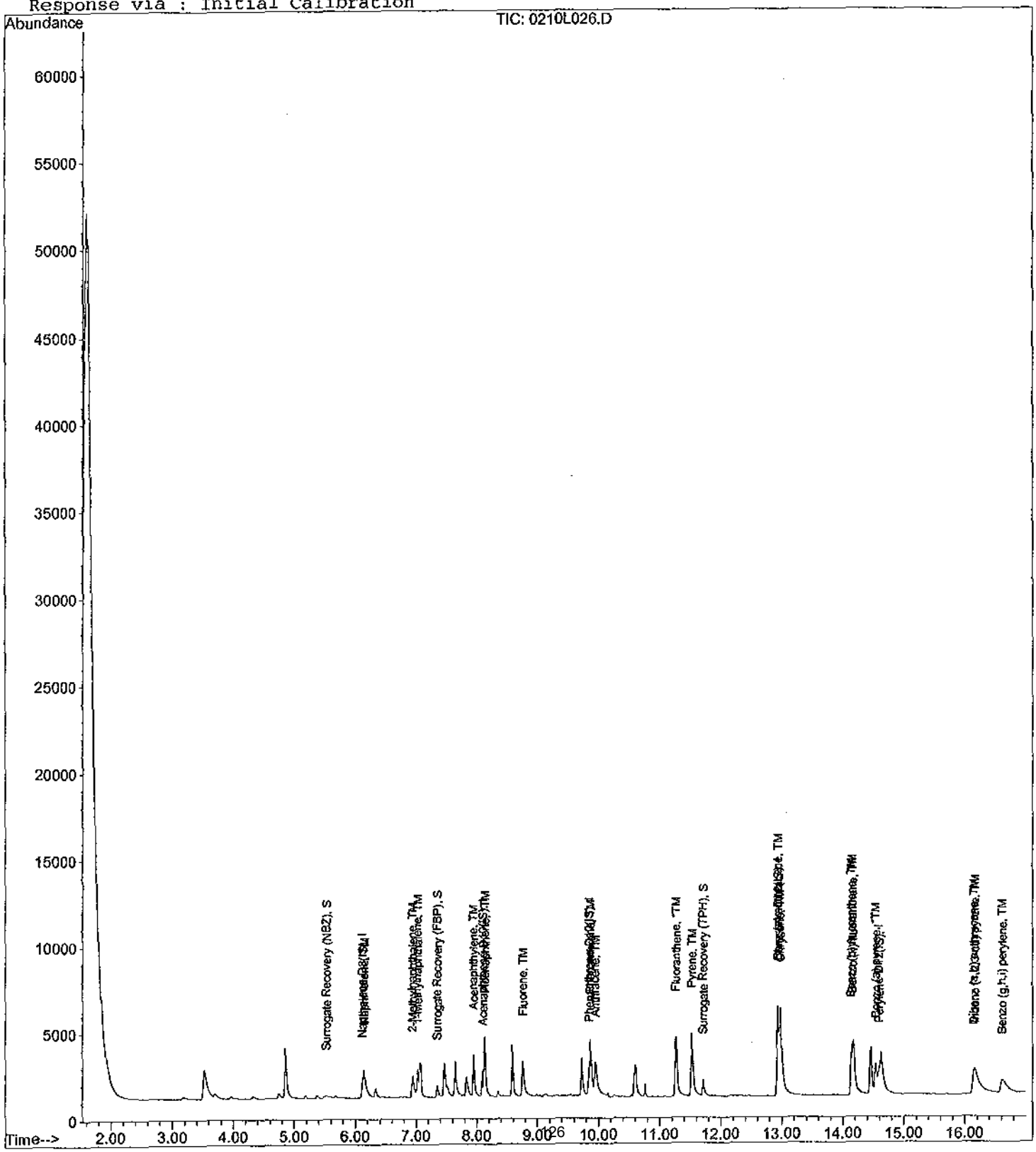
Quantitation Report

Data File : M:\LINUS\DATA\L111027\0210L026.D
Acq On : 11 Feb 12 00:37
Sample : 120208A LCS-1 1/1000
Misc :

Vial: 26
Operator: LF
Inst : Linus
Multiplr: 1.00

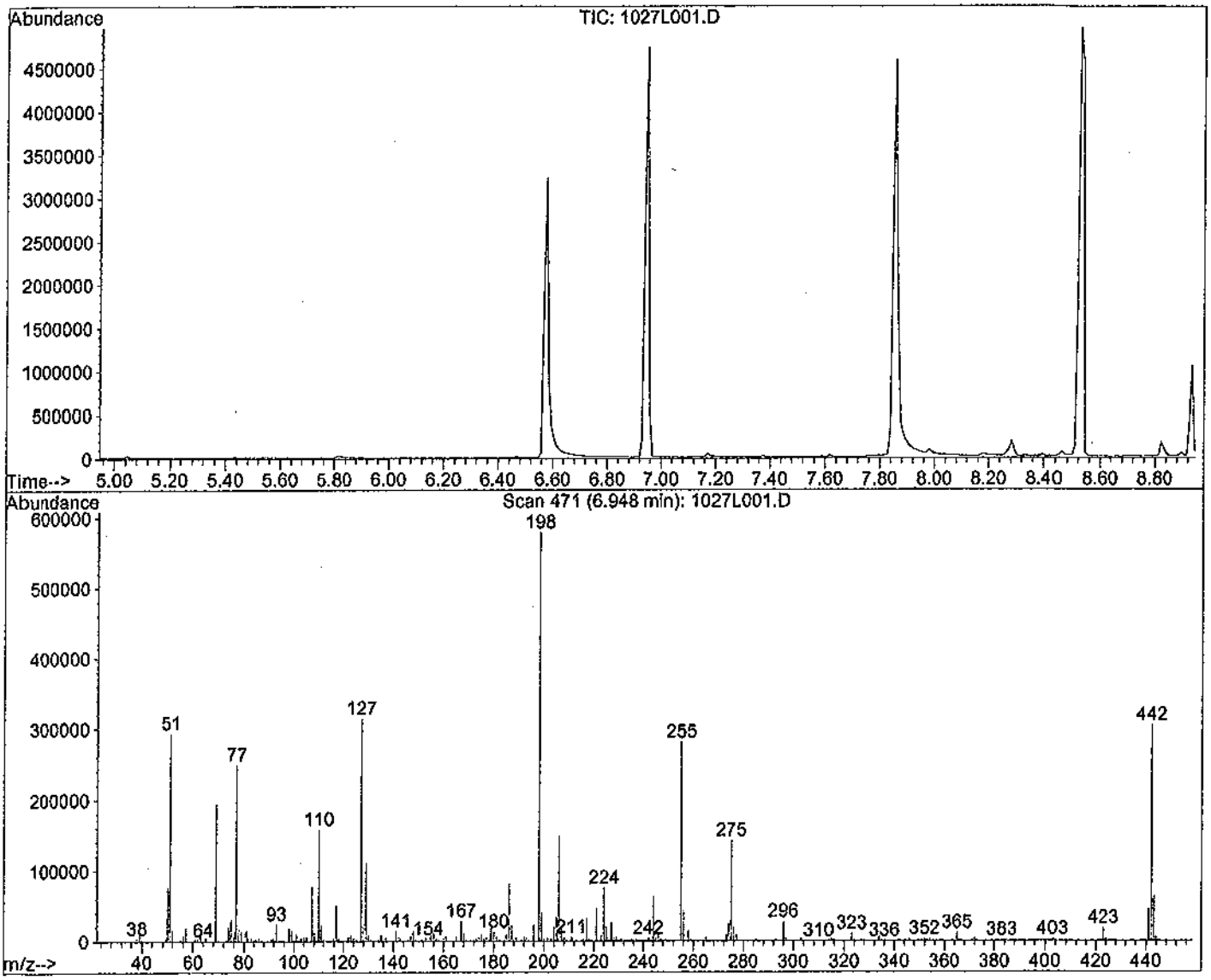
Quant Time: Feb 14 14:42 2012 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Feb 10 11:31:36 2012
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1027L001.D Vial: 1
Acq On : 27 Oct 11 18:29 Operator: LF
Sample : SVTUNE 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

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



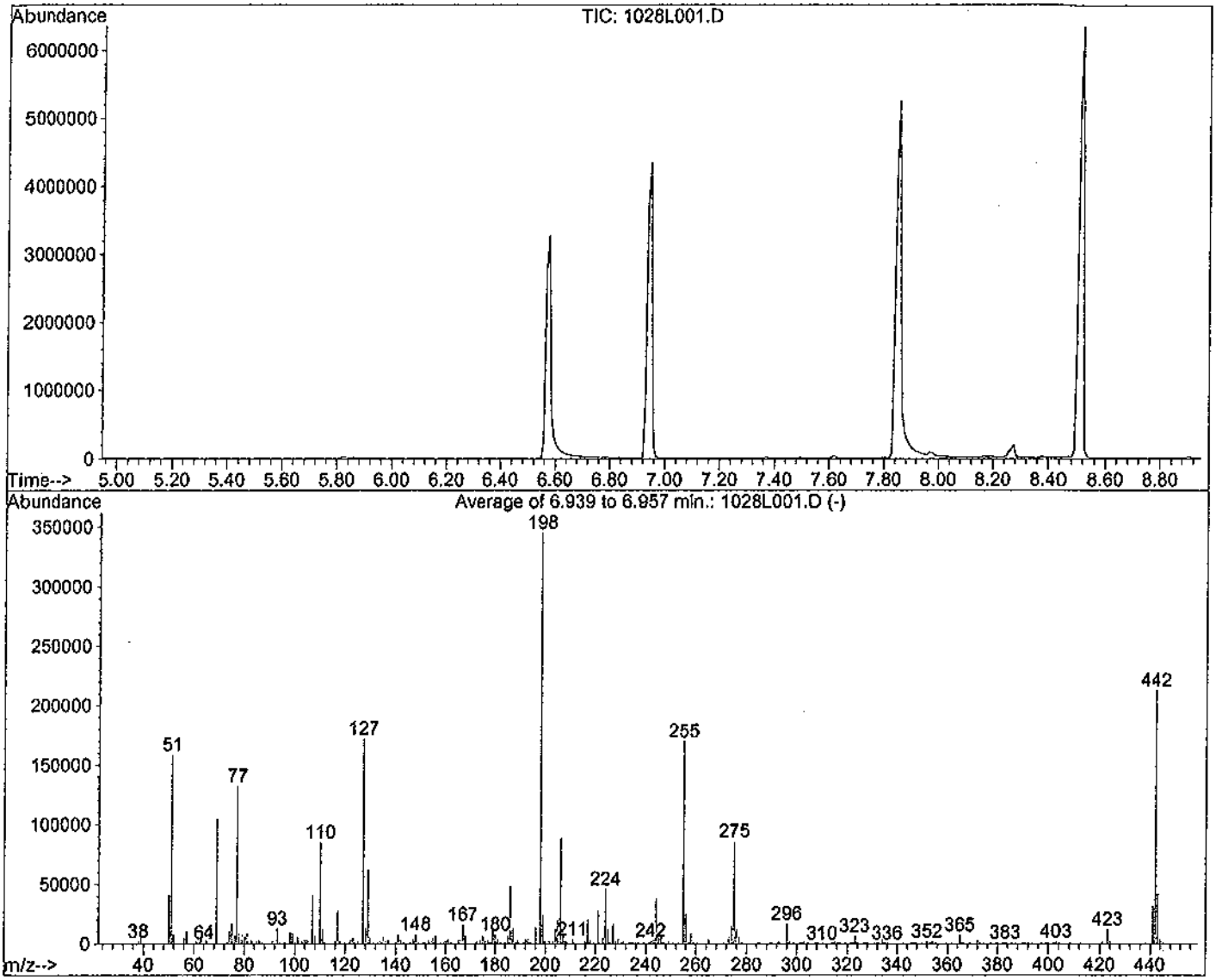
Spectrum Information: Scan 471

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 Vial: 1
Acq On : 28 Oct 11 9:32 Operator: LF
Sample : SVTUNE 10-27-11 Inst : Linus
Misc : 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.

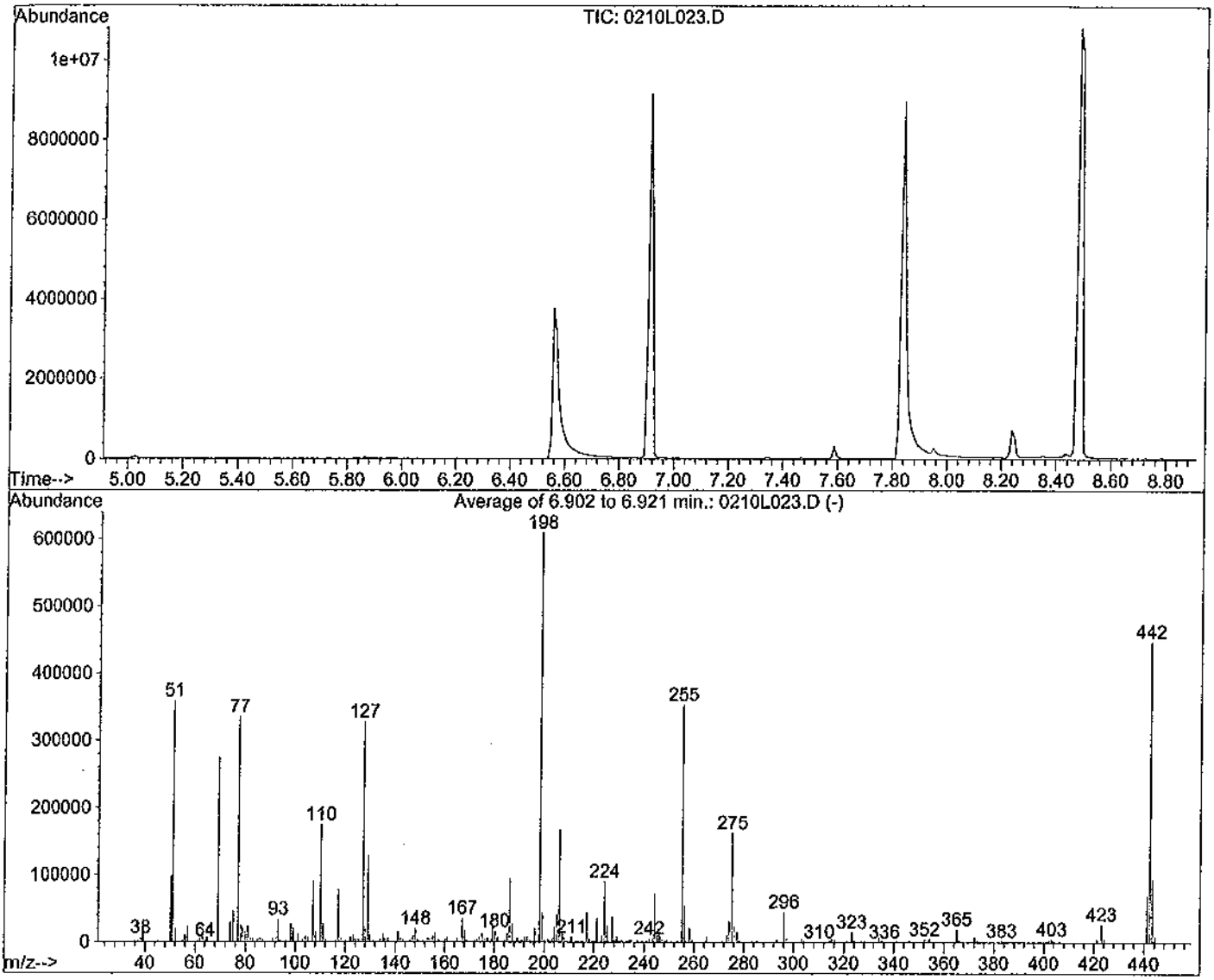
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.8	158326	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	519	PASS
127	198	40	60	49.8	171922	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	345360	PASS
199	198	5	9	7.1	24580	PASS
275	198	10	30	24.8	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

1028L001.D SIM2.M Tue Nov 01 17:33:59 2011

DFTPP

Data File : M:\LINUS\DATA\L111027\0210L023.D Vial: 23
Acq On : 10 Feb 12 23:28 Operator: LF
Sample : SVTUNE 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

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



Spectrum Information: Average of 6.902 to 6.921 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	58.8	358597	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	1593	PASS
127	198	40	60	53.7	327381	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	609792	PASS
199	198	5	9	7.3	44219	PASS
275	198	10	30	26.6	162296	PASS
365	198	1	100	3.1	19134	PASS
441	443	0.01	100	74.2	69668	PASS
442	198	40	150	73.3	447125	PASS
443	442	17	23	21.0	93907	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

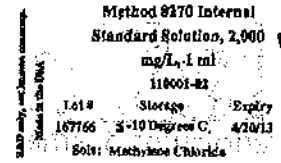
VF 1/25/11

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

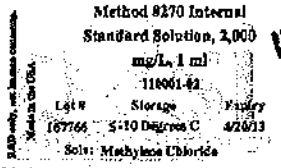
VF 1/25/11



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

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

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
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 STANDAI

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

SIM IS exp 1/25/12
1500µL EM Science MC Lot #47080

kr 3/28/11

o2si Smart Solutions — 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: 6/10/2011
Date Opened: 8270 BN:A (200:400) Surrogate Solution
Lot #: 160538 - 27574
Rec: 10/18/10 MFR exp. 06/10/12

VF exp 3/28/12

VF 3/28/11

PREP DATE:	03-28-11															
8270T STANDARD CURVE																
Exp:	06-27-11					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

PREP DATE:	03-28-11					
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 4/18/11

GCM-150-1 ULTRA 1 mL
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, No Kingstown, RI 02852 USA

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

VF exp 8/31/11

VF 4/13/11

PREP DATE:	04-13-11						
SV Tune Mix 50ug/ml							
Exp:	08-31-11						
		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	

exp 8/31/11

VF 4/20/11

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

VF exp 4/20/12

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

BA

kr 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

VF exp 4/20/12

8270D PAH SIM (SS)
Lot #: 170256 - 28487

BA

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

8270 BN:A (200:400)
Surrogate Solution, 1 ml
119004-17
Lot # 167801 Storage 5-10 Degrees C Expiry 1/9/13
Solv: Methylene Chloride

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
		Conc.		Date										
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		07/26/11	01-26-12	5	5	10	20	25	30	40	50
	Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12	5	5	10	20	25	30	40	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 (88) 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		47186			75	
					Final Vol.	100	

VF 8/31/11

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
		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		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

PREP DATE:	09-21-11						
SIM 8270 Second Source (5µg/mL)							
Exp:	10-05-11						
				Conc.	Date	CODE:	
Supplier	ID #		Lot #	µg/mL	Code	Exp.Date	µL
	8270D PAH SIM (SS)		170256-28487	200	04/20/11	04-20-12	5
	MeCl2			Lot#47186			195
					Final Volume		200

8270 BN Solution 14-4, 2,000 mg/L, 1 ml

Cat. No: 110391-01
Lot No: 158119
8270BN Solution 14-4
Lot #: 158119 - 28021
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

8270 BN Solution 14-3, 2,000 mg/L, 1 ml

Cat. No: 110392-01
Lot No: 158120
8270BN Solution 14-3
Lot #: 158120 - 28023
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
ened: _____

8270 Acid Solution 4-6, 2,000 mg/L, 1 ml

Cat. No: 110393-01
Lot No: 158121
8270B Acid Solution 4-6
Lot #: 158121 - 28025
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
ned: _____

TCL Hazardous Substances Solution 2, 2,000 mg/L, 1 ml

Cat. No: 110394-01
Lot No: 158122
TCL Hzd. Soln. 2
Lot #: 158122 - 28018
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

PAH Solution 17-3, 2,000 mg/L, 1 ml

Cat. No: 116070-02
Lot No: 158123
PAH Solution
Lot #: 158123 - 28027
Rec: 12/16/10 MFR exp. 07/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

8270 Acid Solution 13-4, 2,000 mg/L, 1 ml

Cat. No: 110396-01
Lot No: 158124
8270 Acid Solution 13-4
Lot #: 158124 - 28029
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

8270 BN Solution 4-21, 2,000 mg/L, 1 ml

o2si
Cat. No: 110395-01
Lot No: 158125
8270BN Solution 4-21
Lot #: 158125 - 28031
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
pened: _____

exp 10/12/12

8270 11 Compound Custom Mix, 200:2,000 mg/L, 1 ml

o2si
Cat. No: 110397-01
Lot No: 158127
8270 11 Compound Mix
Lot #: 158127 - 28033
Rec: 12/16/10 MFR exp. 04/12/12

Exp: 4/12/2012
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
ened: _____

exp 4/12/12

Atrazine Solution, 1,000 mg/L, 1 ml

o2si
Cat. No: 010337-01
Lot No: 158126
Atrazine
Lot #: 158126 - 28019
Rec: 12/16/10 MFR exp. 04/12/12

Exp: 4/12/2012
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
ed: _____

exp 4/12/12

PREP DATE:	10-11-11					
8270C Second Source Stock Standard						
Exp:	04-12-12					
		Conc.		Date	CODE:	F
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
O2SI	110391-01	2000	158119-28021	10-11-11	04-17-13	1000
O2SI	110392-01	2000	158120-28023	10-11-11	04-17-13	1000
O2SI	110393-01	2000	158121-28025	10-11-11	04-17-13	1000
O2SI	110394-01	2000	158122-28018	10-11-11	04-17-13	1000
O2SI	116070-02	2000	158123-28027	10-11-11	04-17-13	1000
O2SI	110395-01	2000	158125-28031	10-11-11	04-17-13	1000
O2SI	110396-01	2000	158124-28029	10-11-11	04-17-13	1000
O2SI	110397-01	2000	158127-28033	10-11-11	04-12-12	1000
O2SI	010337-01	1000	158126-28019	10-11-11	04-12-12	1000
EM Science	MeCl2		47186			1000
					Final Vol	10000

PREP DATE:	10-11-11													
8270 STANDARD CURVE							5	10	20	40	50	60	80	100
Exp:	10-18-11													
		Conc.		Date										
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date		µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		07/26/11	01-26-12		5	5	10	20	25	30	40	50
	Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12		5	5	10	20	25	30	40	50
EM Science	Methylene Chloride		47186				190	90	80	60	50	40	20	0
						Final Vol.	200	100	100	100	100	100	100	100

PREP DATE:	10-11-11					
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

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
Lab Use Only

50ug/mL SV Tune Mix
1ml of GCM-150-1 opened 10/11/11 into 19mls EM Science MC Lot 47186

10/18/11

Part #: 10001 Laboratory Use Only - See MSDS
Lot #: 042910 Exp: 042913 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in methy
ABSOLUTE STANDARD
CLP Semi-Volatiles Base/Neutrals Mix #1
Lot #: 042910 - 28440
Rec: 3/8/11 MFR exp. 4/29/2013

exp 10/18/12

10/18/11

Part #: 10001 Laboratory Use Only - See MSDS
Lot #: 042910 Exp: 042913 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in m
ABSOLUTE STANDA
Lot #: 042910 - 29085
Rec: 8/4/11 MFR exp. 04/29/13

exp 10/18/12

10/18/11

Part #: 10002 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in methyle
ABSOLUTE STANDARDS
CLP Semi-Volatiles Base/Neutrals Mix #2
Lot #: 073109 - 28446
Rec: 3/8/11 MFR exp. 7/31/2012

exp 7/31/12

10/18/11

Part #: 10002 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in met
ABSOLUTE STANDAF
CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 29090
Rec: 8/4/11 MFR exp. 07/31/12

exp 7/31/12

10/18/11

Part #: 10004 Laboratory Use Only - See MSDS
Lot #: 101509 Exp: 101514 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in methyl
ABSOLUTE STANDARDS
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 28453
Rec: 3/8/11 MFR exp. 10/15/201

exp 10/18/12

10/18/11

Part #: 10004 Laboratory Use Only - See MSDS
Lot #: 101509 Exp: 101514 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in met
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 29095
Rec: 8/4/11 MFR exp. 10/15/14

exp 10/18/12

10/18/11

Part #: 10005 Laboratory Use Only - See MSDS
Lot #: 061209 Exp: 061214 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
8 components
2000 ug/mL in methy
ABSOLUTE STANDARD
CLP Semi-Volatiles Toxic Substances #2
Lot #: 061209 - 28458
Rec: 3/8/11 MFR exp. 6/12/2014

exp 10/18/12

10/18/11

Part #: 10005 Laboratory Use Only - See MSDS
Lot #: 121208 Exp: 121213 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
8 components
2000 ug/mL in met
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #2
Lot #: 121208 - 29100
Rec: 8/4/11 MFR exp. 12/12/13

exp 10/18/12

Part #: 10006
Lot #: 120810
Laboratory Use Only - See MSDS
Exp: 120813 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in methar
ABSOLUTE STANDARDS
CLP Semi-Volatiles - Benzidines
Lot #: 120810 - 28462
Rec: 3/8/11 MFR exp. 12/6/2013

exp 10/18/12

Part #: 10006
Lot #: 071211
Laboratory Use Only - See MSDS
Exp: 071214 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in meti
ABSOLUTE STANDAR
Lot #: 071211 - 29105
Rec: 8/4/11 MFR exp. 07/12/14

exp 10/18/12

Part #: 10007
Lot #: 100909
Laboratory Use Only - See MSDS
Exp: 100914 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components
2000 ug/mL in methy
ABSOLUTE STANDAR
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 28469
Rec: 3/8/11 MFR exp. 10/9/2014

exp 10/18/12

Part #: 10007
Lot #: 100909
Laboratory Use Only - See MSDS
Exp: 100914 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components
2000 ug/mL in meti
ABSOLUTE STANDAR
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 29110
Rec: 8/4/11 MFR exp. 10/09/14

exp 10/18/12

Part #: 10018
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Pher
2000 ug/mL in methyl
ABSOLUTE STANDARD
CLP Semi-Volatiles Mix #8 - Phenols
Lot #: 073109 - 28410
Rec: 3/8/11 MFR exp. 7/31/2014

exp 10/18/12

Part #: 10018
Lot #: 062111
Laboratory Use Only - See MSDS
Exp: 062116 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Ph
2000 ug/mL in meth
ABSOLUTE STANDARI
EPA Method 8270A - Analytes Mix #8
Lot #: 062111 - 29115
Rec: 8/4/11 MFR exp. 06/21/16

exp 10/18/12

Part #: 70023
Lot #: 080310
Laboratory Use Only - See MSDS
Exp: 080315 Storage 4 °C
Atrazine
1000 ug/mL in aceto
ABSOLUTE STANDARI
Atrazine
Lot #: 080310 - 28416
Rec: 3/8/11 MFR exp. 8/13/2015

exp 10/18/12

Part #: 70023
Lot #: 031611
Laboratory Use Only - See MSDS
Exp: 031616 Storage 4 °C
Atrazine
1000 ug/mL in ace
ABSOLUTE STANDA
Atrazine
Lot #: 031611 - 29120
Rec: 8/4/11 MFR exp. 03/16/16

exp 10/18/12

_SEP004S

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	120208A	Extraction Method	SEP004S	Units	mL

Spiked ID 1	SIM Spike 178987-29583		Surrogate ID 1	8270 SIM Surrogate 177982-29475	
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:	02/16/12 0:00	

pH1	2	02/08/12 3:00:00 PM	Water Bath Temp Criteria	80 °C
pH2	14	02/08/12 4:15:00 PM		
pH3				

Spiked By: DL **Date** 02/08/12 **Witnessed By:** IC **Date** 02/08/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	120208A Blk				0.025	1	1000	1	2/1	02/08/12 14:50	
						equip	E-WB5				
2	120208A LCS-1		0.025	1	0.025	1	1000	1	2/1	02/08/12 14:50	
						equip	E-WB5				
3	AY54074	AY54074W05			0.025	1	1010	1	2/1	02/08/12 14:50	66864-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
4	AY54075	AY54075W05			0.025	1	980	1	2/1	02/08/12 14:50	66864-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
5	AY54156 MS-1	AY54156W04	0.025	1	0.025	1	1000	1	2/1	02/08/12 14:50	66878-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
6	AY54156 MSD-1	AY54156W06	0.025	1	0.025	1	1000	1	2/1	02/08/12 14:50	66878-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
7	AY54156	AY54156W05			0.025	1	990	1	2/1	02/08/12 14:50	66878-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
8	AY54157	AY54157W02			0.025	1	1010	1	2/1	02/08/12 14:50	66878-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				
9	AY54158	AY54158W02			0.025	1	960	1	2/1	02/08/12 14:50	66878-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
10	AY54159	AY54159W03			0.025	1	1030	1	2/1	02/08/12 14:50	66880-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
11	AY54163	AY54163W10			0.025	1	1020	1	2/1	02/08/12 14:50	66882-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
12	AY54164	AY54164W08			0.025	1	980	1	2/1	02/08/12 14:50	66882-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				

Solvent and Lot#	
MC	EMD51257
Na2SO4	2351C512
10N NaOH	02/02/12
1+1 Acid	09/15/11
A. Na2SO4	10/31/11

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	IX
Date	2/10/12
Time	1400
Refrigerator	Down

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	DL
Concentration	IC

Modified	02/09/12 4:32:18 PM

Reviewed By: DRA **Date** 02/09/12

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	23	0210L023.D	1	SVTUNE 10-27-11		10 Feb 12 23:28
13	24	0210L024.D	1	5.0ug/ml PAH 10-27-11		10 Feb 12 23:46
14	25	0210L025.D	1	120208A BLK 1/1000		11 Feb 12 00:11
15	26	0210L026.D	1	120208A LCS-1 1/1000		11 Feb 12 00:37
16	27	0210L027.D	0.9901	AY54074W05 1/1010		11 Feb 12 1:02
17	28	0210L028.D	1.02041	AY54075W05 1/980		11 Feb 12 1:27

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: **120203W-54074 - 163650**
Batch ID: #86RHB-120203AC

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	02/03/12	02/03/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	02/03/12	02/03/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/03/12	02/03/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	02/03/12	02/03/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	02/03/12	02/03/12
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	02/03/12	02/03/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/03/12	02/03/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	02/03/12	02/03/12
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	02/03/12	02/03/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	02/03/12	02/03/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	02/03/12	02/03/12
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	02/03/12	02/03/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	02/03/12	02/03/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	02/03/12	02/03/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	02/03/12	02/03/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	02/03/12	02/03/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	02/03/12	02/03/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	02/03/12	02/03/12
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	02/03/12	02/03/12

Quant Method: CALLW.M
Run #: 0203C12
Instrument: Chico
Sequence: C120202
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/09/12 11:58:47 AM

Method Blank

EPA 8260B VOCs + Gas Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **120203W-54074 - 163650**
Batch ID: #86RHB-120203AC

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	02/03/12	02/03/12
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	02/03/12	02/03/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	02/03/12	02/03/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	02/03/12	02/03/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	SURROGATE: 1,2-DICHLOROET	103	70-120			%	02/03/12	02/03/12
BLANK	SURROGATE: 4-BROMOFLUORO	93.8	75-120			%	02/03/12	02/03/12
BLANK	SURROGATE: DIBROMOFLUOR	95.8	85-115			%	02/03/12	02/03/12
BLANK	SURROGATE: TOLUENE-D8 (S)	88.6	85-120			%	02/03/12	02/03/12

Quant Method: CALLW.M
Run #: 0203C12
Instrument: Chico
Sequence: C120202
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/09/12 11:58:47 AM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66864

Case No: 66864 Date Analyzed: 02/03/12

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
120203AC-LCS	Lab Control Spike	70-120	103		75-120	94.9	
120203AC-BLK	Blank	70-120	103		75-120	93.8	
AY54076	TRIP BLANK	70-120	103		75-120	100	
AY54074	ES062	70-120	99.8		75-120	96.4	
AY54075	ES063	70-120	97.6		75-120	95.1	

Comments: Batch: #86RHB-120203AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66864

Case No: 66864 Date Analyzed: 02/03/12

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120203AC-LCS	Lab Control Spike	85-115	102		85-120	92.0	
120203AC-BLK	Blank	85-115	95.8		85-120	88.6	
AY54076	TRIP BLANK	85-115	98.5		85-120	95.8	
AY54074	ES062	85-115	98.0		85-120	91.1	
AY54075	ES063	85-115	94.9		85-120	91.5	

Comments: Batch: #86RHB-120203AC

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120203W-54074 LCS - 163650**
Batch ID: #86RHB-120203AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	11.0	110	80-130
1,1,1-TRICHLOROETHANE	10.00	10.6	106	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	11.1	111	65-130
1,1,2-TRICHLOROETHANE	10.00	11.5	115	75-125
1,1-DICHLOROETHANE	10.00	10.4	104	70-135
1,1-DICHLOROETHENE	10.00	10.1	101	70-130
1,2,3-TRICHLOROPROPANE	10.00	10.5	105	75-125
1,2,4-TRICHLOROBENZENE	10.00	11.6	116	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	11.0	110	50-130
1,2-DIBROMOETHANE	10.00	10.9	109	70-130
1,2-DICHLOROBENZENE	10.00	10.4	104	70-120
1,2-DICHLOROETHANE	10.00	11.1	111	70-130
1,2-DICHLOROPROPANE	10.00	10.3	103	75-125
1,3-DICHLOROBENZENE	10.00	10.1	101	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	21.8	109	70-130
1,4-DICHLOROBENZENE	10.00	10.2	102	75-125
2-BUTANONE	10.00	11.8	118	30-150
4-METHYL-2-PENTANONE	10.00	11.1	111	60-135
ACETONE	10.00	10.6	106	40-140
BENZENE	10.00	10.1	101	80-120
BROMODICHLOROMETHANE	10.00	10.7	107	75-120
BROMOFORM	10.00	10.5	105	70-130
BROMOMETHANE	10.00	10.3	103	30-145
CARBON TETRACHLORIDE	10.00	10.4	104	65-140
CHLOROBENZENE	10.00	10.5	105	80-120
CHLORODIBROMOMETHANE	10.00	11.0	110	60-135

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	02/03/12
Analysis Date :	02/03/12
Instrument :	Chico
Run :	0203C05
Initials :	ARS

Printed: 02/09/12 11:58:33 AM

APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: **120203W-54074 LCS - 163650**
Batch ID: #86RHB-120203AC

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	10.7	107	60-135
CHLOROFORM	10.00	10.7	107	65-135
CHLOROMETHANE	10.00	10.6	106	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.8	108	70-125
ETHYLBENZENE	10.00	10.0	100	75-125
GASOLINE	300	293	97.7	75-125
HEXACHLOROBUTADIENE	10.00	10.5	105	50-140
METHYL TERT-BUTYL ETHER	10.00	11.1	111	65-125
METHYLENE CHLORIDE	10.00	11.0	110	55-140
STYRENE	10.00	10.8	108	65-135
TETRACHLOROETHENE	10.00	10.2	102	45-150
TOLUENE	10.00	10.2	102	75-120
TRANS-1,2-DICHLOROETHENE	10.00	10.4	104	60-140
TRICHLOROETHENE	10.00	10.9	109	70-125
VINYL CHLORIDE	10.00	9.39	93.9	50-145
XYLENES (TOTAL)	30.0	30.1	100	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	21.7	22.3	103	70-120
SURROGATE: 4-BROMOFLUOROBENZE	25.9	24.6	94.9	75-120
SURROGATE: DIBROMOFLUOROMETH	22.4	22.8	102	85-115
SURROGATE: TOLUENE-D8 (S)	24.0	22.1	92.0	85-120

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	02/03/12
Analysis Date :	02/03/12
Instrument :	Chico
Run :	0203C05
Initials :	ARS

Printed: 02/09/12 11:58:33 AM

APPL Standard LCS

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66864

Case No: 66864 Date Analyzed: 02/03/12

Matrix: WATER Instrument: Chico

Blank ID: 120203AC-BLK Time Analyzed: 1654

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120203AC-LCS	Lab Control Spike	0203C05	02/03/12 1235
120203AC-BLK	Blank	0203C12	02/03/12 1654
AY54076	TRIP BLANK	0203C13	02/03/12 1731
AY54074	ES062	0203C14	02/03/12 1808
AY54075	ES063	0203C15	02/03/12 1846

Comments: Batch: #86RHB-120203AC

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0203C02W.D
Matrix: Water
ID: 25ug/L BFB Std. 01-12-12

SDG No: 66864
Date Analyzed: 02/03/12
Instrument: Chico
Time Analyzed: 10:44

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		10ug/L Vol Std 02-03	0203C04W.D	02/03/12 11:58
2	Lab Control Spike	120203A LCS-1WC	0203C05W.D	02/03/12 12:35
3	Blank	120203A BLK-1WC	0203C12W.D	02/03/12 16:54
4	TRIP BLANK	AY54076W01	0203C13W.D	02/03/12 17:31
5	ES062	AY54074W01	0203C14W.D	02/03/12 18:08
6	ES063	AY54075W01	0203C15W.D	02/03/12 18:46
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	17.6
75	30 - 60% of mass 95	43.9
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.6
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	92.7
175	5 - 9% of mass 174	7.1
176	95 - 101% of mass 174	95.4
177	5 - 9% of mass 176	6.6

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0203C02W.D
Matrix: Water
ID: 25ug/L BFB Std. 01-12-12

SDG No: 66864
Date Analyzed: 02/03/12
Instrument: Chico
Time Analyzed: 10:44

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		GAS CCV 300ug/L	0203C07W.D	02/03/12 13:48
2	Lab Control Spike	120203A GAS LCS-1WC	0203C08W.D	02/03/12 14:26
3	Blank	120203A BLK-1WC	0203C12W.D	02/03/12 16:54
4	TRIP BLANK	AY54076W01	0203C13W.D	02/03/12 17:31
5	ES062	AY54074W01	0203C14W.D	02/03/12 18:08
6	ES063	AY54075W01	0203C15W.D	02/03/12 18:46
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	17.6
75	30 - 60% of mass 95	43.9
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.6
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	92.7
175	5 - 9% of mass 174	7.1
176	95 - 101% of mass 174	95.4
177	5 - 9% of mass 176	6.6

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66864

Lab File ID (Standard): 0202C09W.D Date Analyzed: 2 Feb 12 19:45

Instrument ID: Chico Time Analyzed: 2 Feb 12 19:45

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	587426	12.81	416448	18.01	207872	22.21
	UPPER LIMIT	1174852	13.31	832896	18.51	415744	22.71
	LOWER LIMIT	293713	12.31	208224	17.51	103936	21.71
	SAMPLE NO.						
01	10ug/L Vol Std 02-03-12	580203	12.82	424512	18.00	218240	22.20
02	120203A LCS-1WC	584886	12.81	417536	18.01	217792	22.21
03	120203A BLK-1WC	543201	12.82	395072	18.01	196224	22.21
04	AY54076W01	531717	12.82	367488	18.01	187776	22.20
05	AY54074W01	549994	12.82	379264	18.00	188608	22.20
06	AY54075W01	542144	12.81	383680	18.01	198272	22.21
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.: 66864

Lab File ID (Standard): 0125C32W.D Date Analyzed: 01/26/12

Instrument ID: Chico Time Analyzed: 21:24

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	1085220	12.79	1323770	17.98	1382630	22.18
	UPPER LIMIT	2170440	13.29	2647540	18.48	2765260	22.68
	LOWER LIMIT	542610	12.29	661885	17.48	691315	21.68
	SAMPLE NO.						
01	GAS CCV 300ug/L	1178840	12.82	1149880	18.00	1180730	22.20
02	120203A GAS LCS-1WC	1136490	12.82	1120620	18.01	1165610	22.21
03	120203A BLK-1WC	1053080	12.82	1023960	18.01	1026150	22.21
04	AY54076W01	1035920	12.82	998196	18.00	1002560	22.20
05	AY54074W01	1063640	12.82	1043400	18.00	1032640	22.20
06	AY54075W01	1054830	12.81	1026350	18.01	1032060	22.21
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.

Manual Integration Summary

ARF: 66864

APPL ID	Client ID	Method	Analyte	Type	Comment
AY54074	Blank	EPA 8260B	GASOLINE	Blank	(MI1) Integration does not follow baseline.
AY54074	LCS	EPA 8260B	GASOLINE	LCS	(MI1) Integration does not follow baseline.
AY54074	ES062	EPA 8260B	GASOLINE	Parent	(MI1) Integration does not follow baseline.
AY54075	ES063	EPA 8260B	GASOLINE	Parent	(MI1) Integration does not follow baseline.
AY54076	TRIP BLANK	EPA 8260B	GASOLINE	Parent	(MI1) Integration does not follow baseline.

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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66864

Sample ID: ES062

APPL ID: AY54074

Sample Collection Date: 02/01/12

QCG: #86RHB-120203AC-163650

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	02/03/12	02/03/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	02/03/12	02/03/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/03/12	02/03/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	02/03/12	02/03/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	02/03/12	02/03/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	02/03/12	02/03/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	02/03/12	02/03/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	02/03/12	02/03/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	02/03/12	02/03/12
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	02/03/12	02/03/12
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	02/03/12	02/03/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	02/03/12	02/03/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	02/03/12	02/03/12
EPA 8260B	GASOLINE	12.12 U MI1	20.0	12.12	6.06	ug/L	02/03/12	02/03/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	02/03/12	02/03/12
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	02/03/12	02/03/12

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
(MI1) Manual integration: Integration does not follow baseline.

Quant Method: CALLW.M
Run #: 0203C14
Instrument: Chico
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/09/12 4:25:51 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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66864

Sample ID: ES062

APPL ID: AY54074

Sample Collection Date: 02/01/12

QCG: #86RHB-120203AC-163650

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	02/03/12	02/03/12
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	02/03/12	02/03/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	02/03/12	02/03/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	99.8	70-120			%	02/03/12	02/03/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	96.4	75-120			%	02/03/12	02/03/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	98.0	85-115			%	02/03/12	02/03/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	91.1	85-120			%	02/03/12	02/03/12

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
(MI1) Manual integration: Integration does not follow baseline.

Quant Method: CALLW.M
Run #: 0203C14
Instrument: Chlco
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/09/12 4:25:51 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C14W.D Vial: 1
Acq On : 3 Feb 12 18:08 Operator: RS, ARS
Sample : AY54074W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 6 8:48 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.82	96	549994	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	18.00	117	379264	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	188608	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.40	111	326601	21.99242 ppb	0.00
Spiked Amount 22.441			Recovery =	97.998%	
37) 1,2-DCA-D4(S)	12.21	65	227077	21.66715 ppb	0.00
Spiked Amount 21.710			Recovery =	99.802%	
55) Toluene-D8(S)	15.48	98	1239394	21.88703 ppb	0.00
Spiked Amount 24.025			Recovery =	91.103%	
63) 4-Bromofluorobenzene(S)	20.07	95	472232	24.97073 ppb	0.00
Spiked Amount 25.909			Recovery =	96.378%	
Target Compounds					Qvalue
25) Vinyl Acetate	9.41	43	1586	0.24436 ppb NT	88

ARS 2/6/12

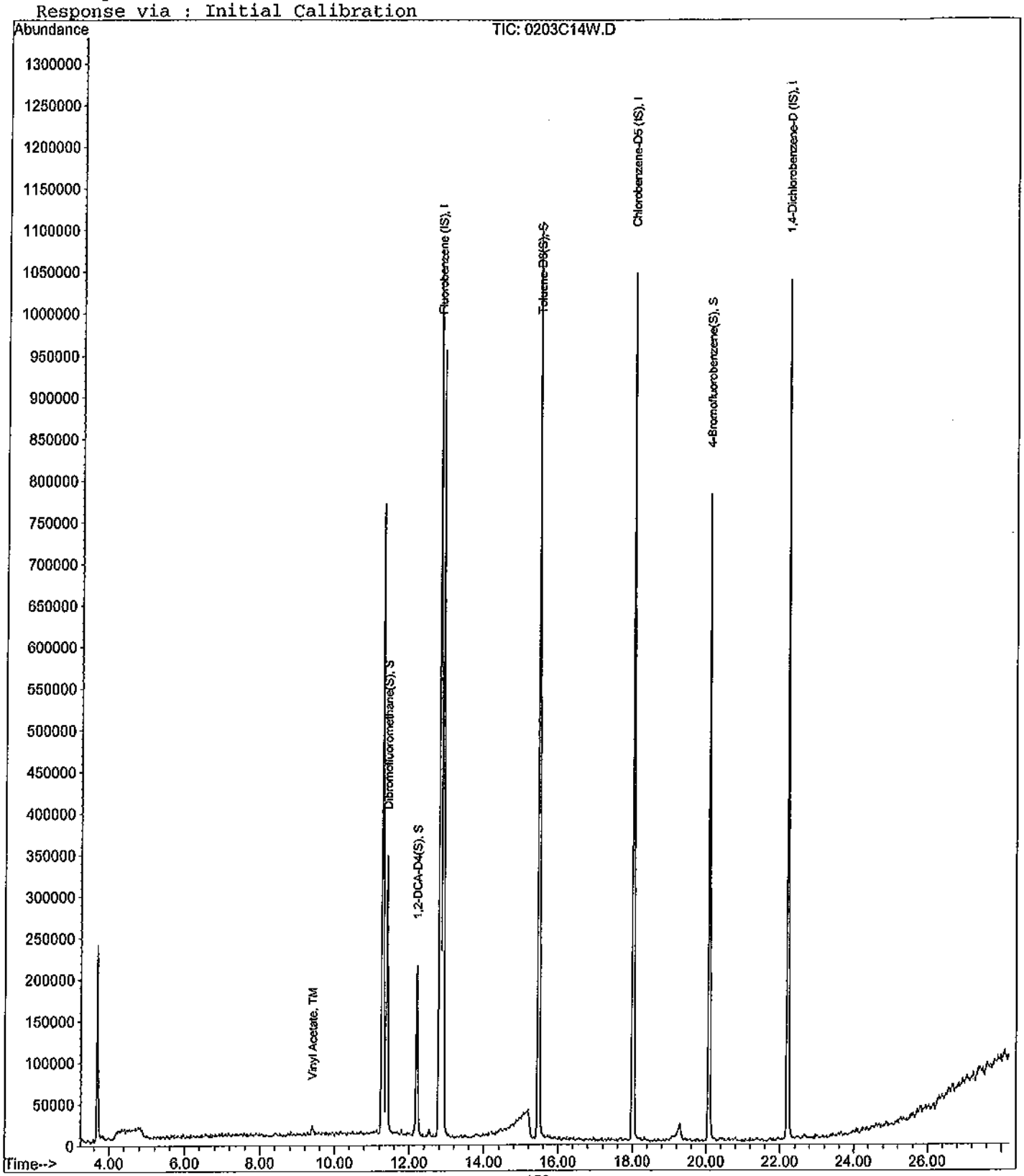
(#) = qualifier out of range (m) = manual integration
0203C14W.D CALLW.M Mon Feb 06 13:32:51 2012 Page 1

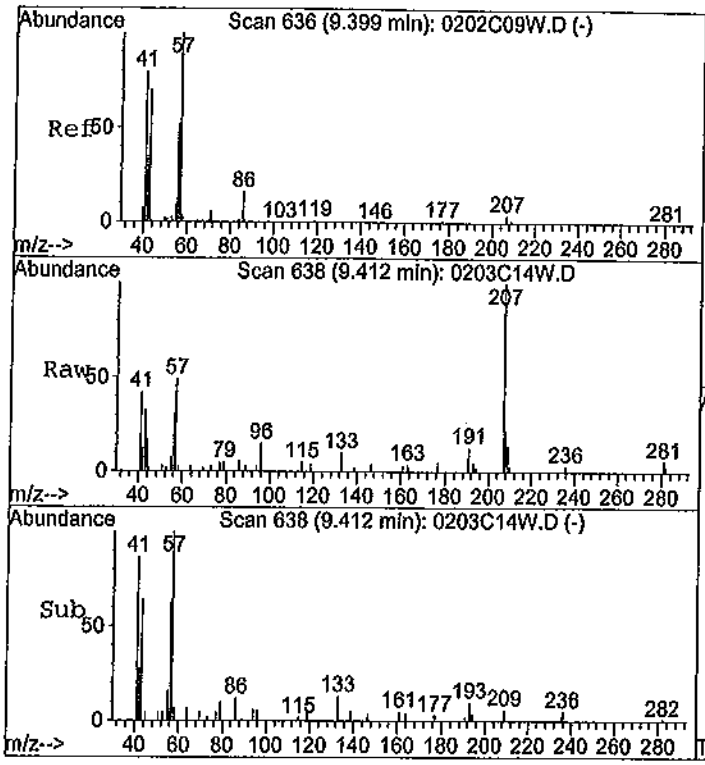
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C14W.D Vial: 1
Acq On : 3 Feb 12 18:08 Operator: RS, ARS
Sample : AY54074W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 6 8:48 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration

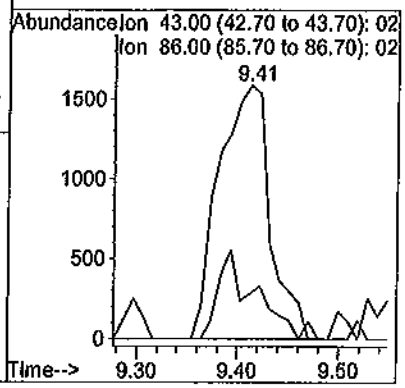




#25
Vinyl Acetate
Concen: 0.24436 ppb
RT: 9.41 min Scan# 638
Delta R.T. 0.01 min
Lab File: 0203C14W.D
Acq: 3 Feb 12 18:08

Tgt Ion: 43 Resp: 1586

Ion	Ratio	Lower	Upper
43	100		
86	17.8	16.5	30.7



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C14W.D Vial: 1
Acq On : 3 Feb 12 18:08 Operator: RS, ARS
Sample : AY54074W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:16 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.82	TIC	1063642	25.00000	ppb	0.03
3) Chlorobenzene-D5 (IS)	18.00	TIC	1043399	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.20	TIC	1032641	25.00000	ppb	0.02

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.48	TIC	22027595m	46.18275	ppb	ND 100

No Gasoline Pattern
RS 2/9/12

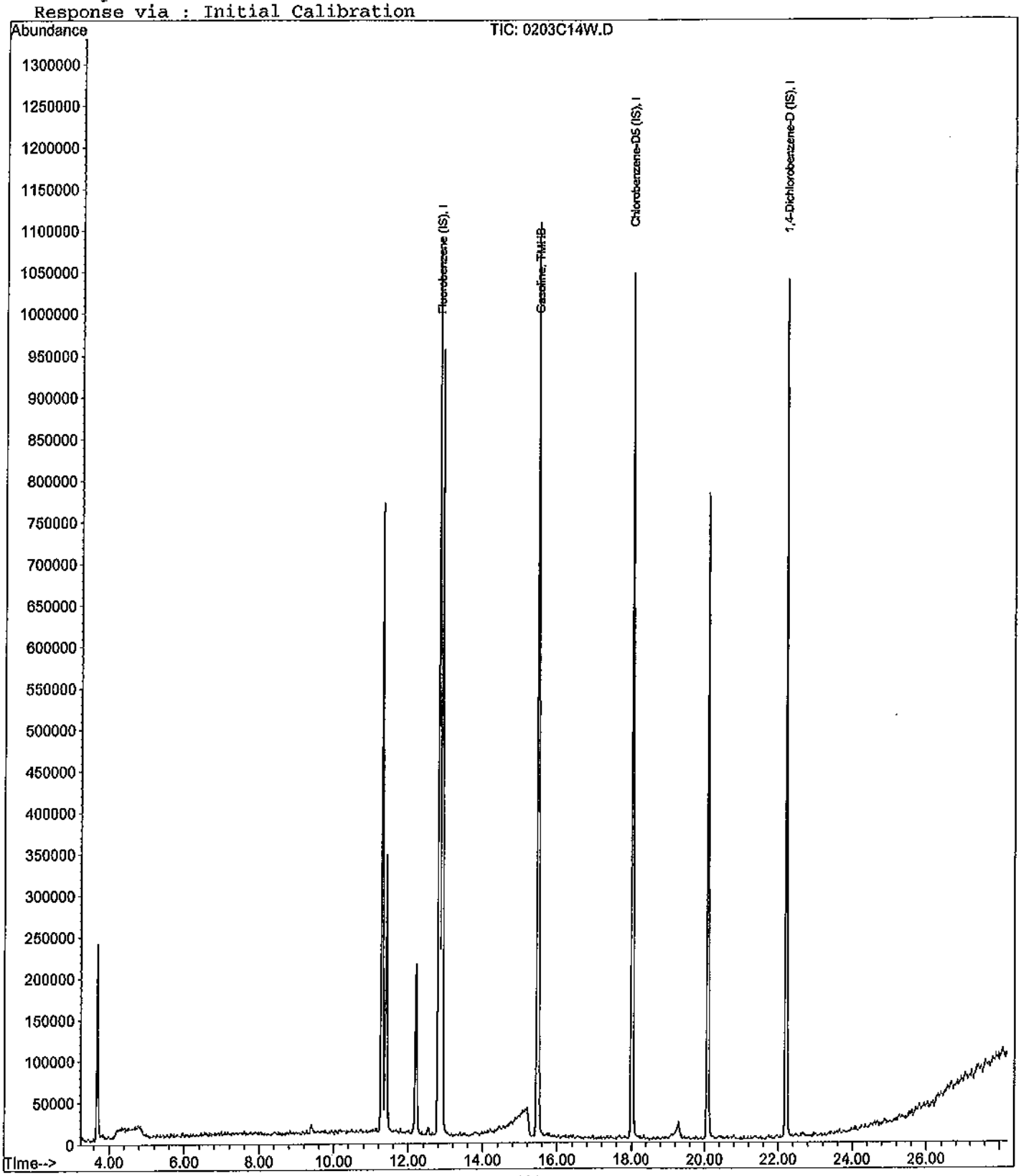
(#) = qualifier out of range (m) = manual integration
0203C14W.D CGAS.M Thu Feb 09 11:17:12 2012 Page 1

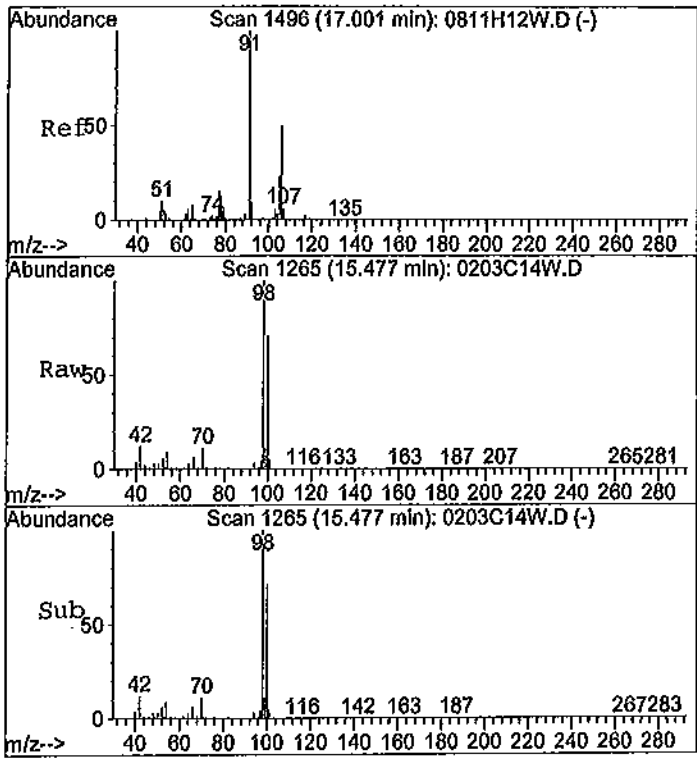
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C14W.D Vial: 1
Acq On : 3 Feb 12 18:08 Operator: RS, ARS
Sample : AY54074W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:16 2012 Quant Results File: CGAS.RES

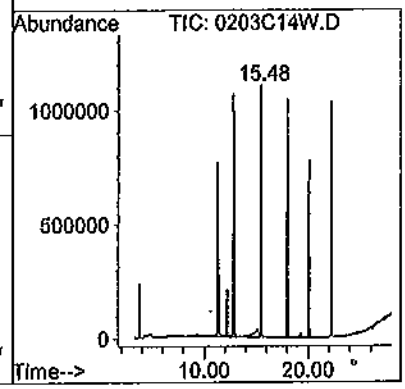
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration





#2
Gasoline
Concen: 46.18275 ppb m
RT: 15.48 min Scan# 1265
Delta R.T. -0.11 min
Lab File: 0203C14W.D
Acq: 3 Feb 12 18:08

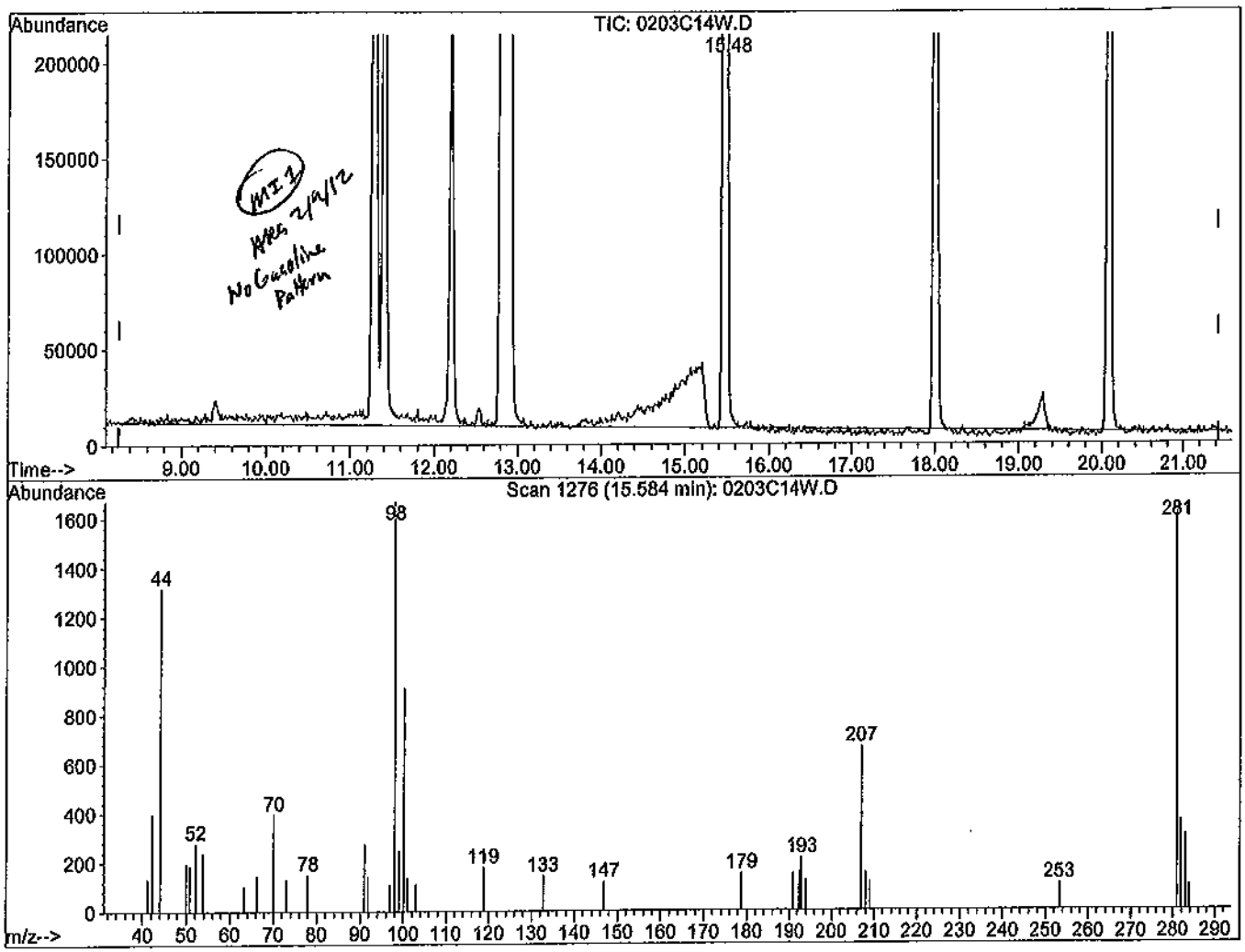
Tgt Ion:TIC Resp:22027595



Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C14W.D Vial: 1
Acq On : 3 Feb 12 18:08 Operator: RS, ARS
Sample : AY54074W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:08 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0203C14W.D

(2) Gasoline (TMHB)

15.58min -8.0793ppb m

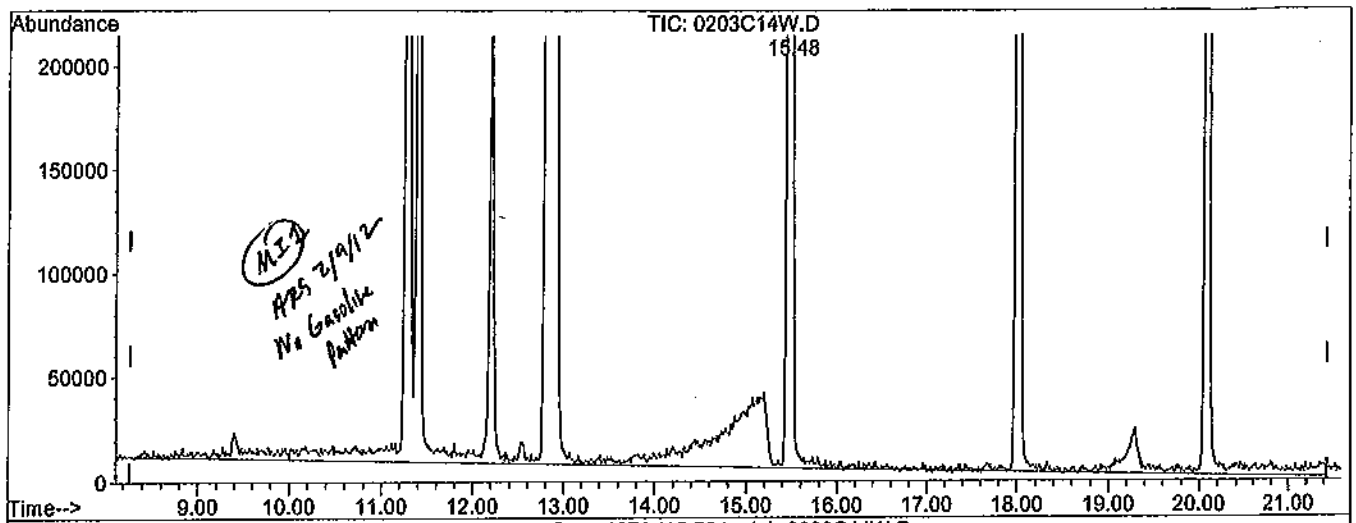
response 17011774

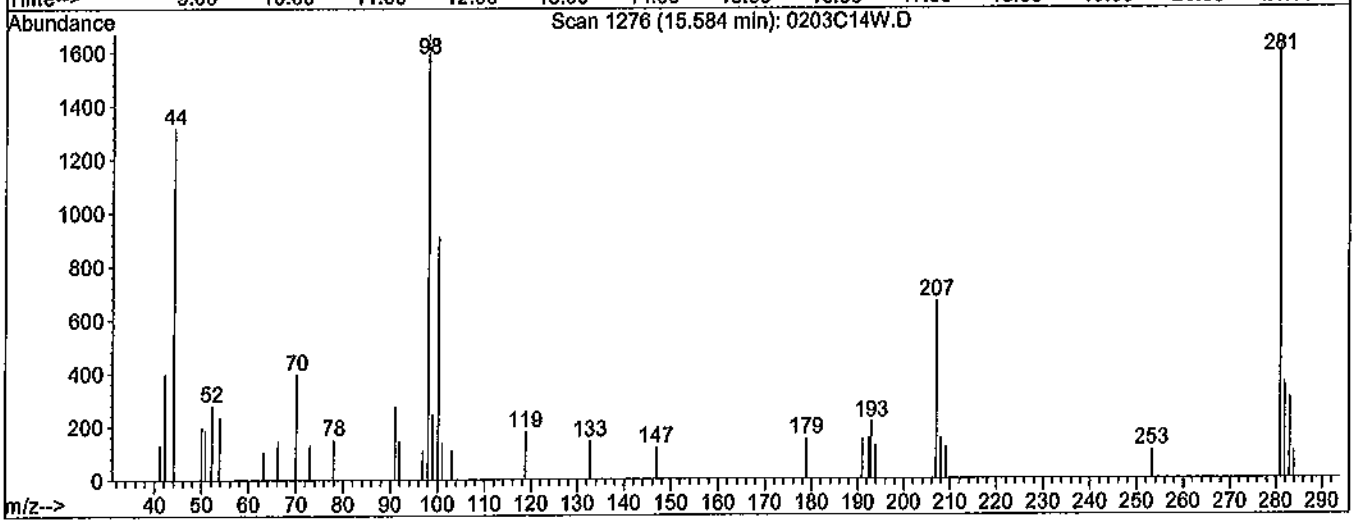
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.61#
0.00	0.00	1.77#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C14W.D Vial: 1
Acq On : 3 Feb 12 18:08 Operator: RS, ARS
Sample : AY54074W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:16 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0203C14W.D

(2) Gasoline (TMHB)

15.48min 46.1828ppb m

response 22027595

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.47#
0.00	0.00	1.37#
0.00	0.00	0.00

EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen

Project: RED HILL/1022-015

ARF: 66864

Sample ID: ES063

APPL ID: AY54075

Sample Collection Date: 02/01/12

QCG: #86RHB-120203AC-163650

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	02/03/12	02/03/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	02/03/12	02/03/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/03/12	02/03/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	02/03/12	02/03/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	02/03/12	02/03/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	02/03/12	02/03/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	02/03/12	02/03/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	02/03/12	02/03/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	02/03/12	02/03/12
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	02/03/12	02/03/12
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	02/03/12	02/03/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	02/03/12	02/03/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	02/03/12	02/03/12
EPA 8260B	GASOLINE	12.12 U MI1	20.0	12.12	6.06	ug/L	02/03/12	02/03/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	02/03/12	02/03/12
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	02/03/12	02/03/12

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
(MI1) Manual integration: Integration does not follow baseline.

Quant Method: CALLW.M
Run #: 0203C15
Instrument: Chico
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/09/12 4:23:33 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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66864

Sample ID: ES063

APPL ID: AY54075

Sample Collection Date: 02/01/12

QCG: #86RHB-120203AC-163650

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	02/03/12	02/03/12
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	02/03/12	02/03/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	02/03/12	02/03/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	97.6	70-120			%	02/03/12	02/03/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	95.1	75-120			%	02/03/12	02/03/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	94.9	85-115			%	02/03/12	02/03/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	91.5	85-120			%	02/03/12	02/03/12

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
(MI1) Manual integration: Integration does not follow baseline.

Quant Method: CALLW.M
Run #: 0203C15
Instrument: Chico
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/09/12 4:23:33 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C15W.D Vial: 1
Acq On : 3 Feb 12 18:46 Operator: RS, ARS
Sample : AY54075W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 6 8:50 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	96	542144	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	18.01	117	383680	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.21	152	198272	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.40	111	311763	21.29725 ppb	0.00
Spiked Amount 22.441			Recovery =	94.901%	
37) 1,2-DCA-D4(S)	12.20	65	218982	21.19729 ppb	0.00
Spiked Amount 21.710			Recovery =	97.637%	
55) Toluene-D8(S)	15.47	98	1258956	21.97660 ppb	0.00
Spiked Amount 24.025			Recovery =	91.477%	
63) 4-Bromofluorobenzene(S)	20.08	95	471403	24.64000 ppb	0.00
Spiked Amount 25.909			Recovery =	95.101%	
Target Compounds					Qvalue
25) Vinyl Acetate	9.40	43	1617	0.26519 ppb NT	92

ARS 2/6/12

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

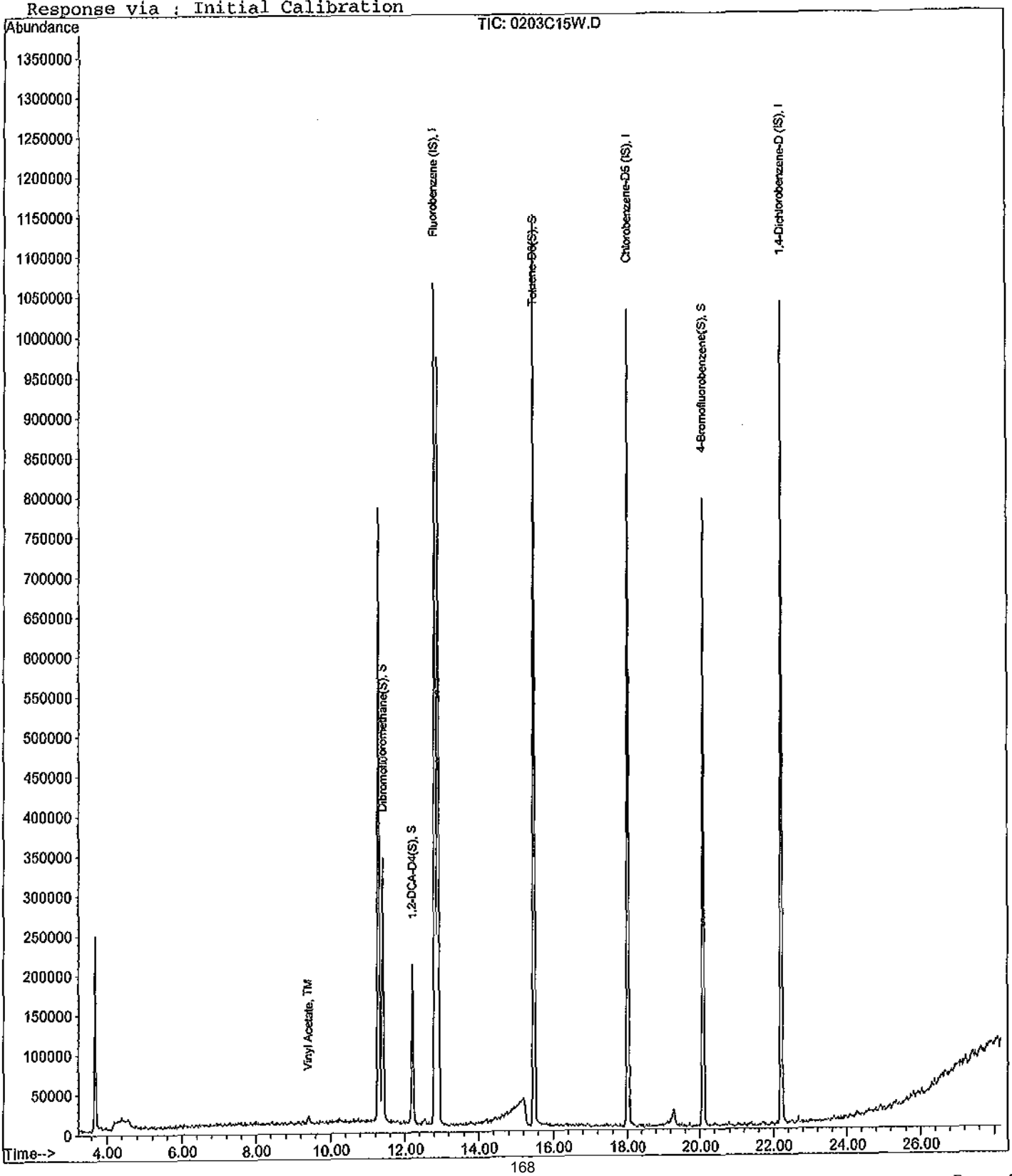
Quantitation Report

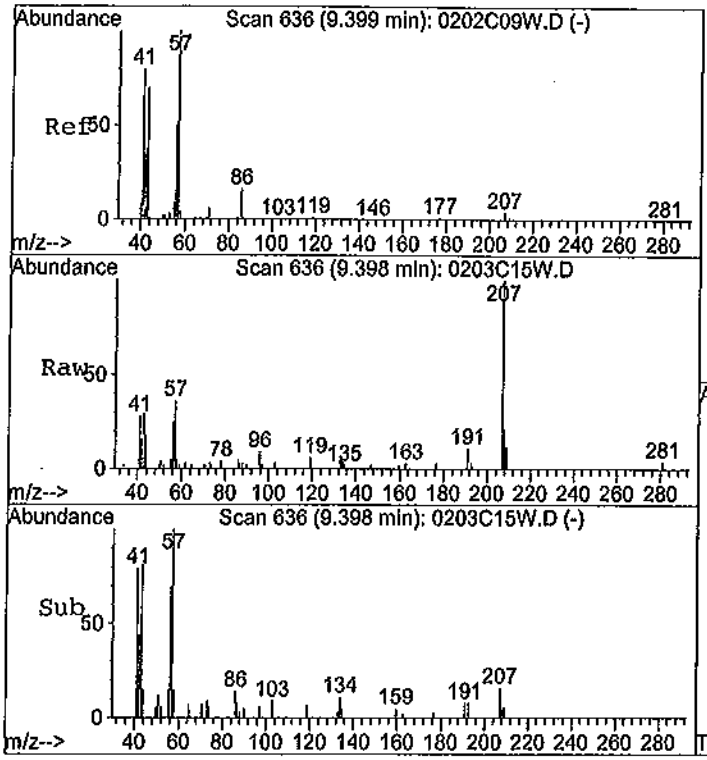
Data File : M:\CHICO\DATA\C120202\0203C15W.D
Acq On : 3 Feb 12 18:46
Sample : AY54075W01
Misc : Water 10mLw/ IS&S:01-30C&01-20

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 6 8:50 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration

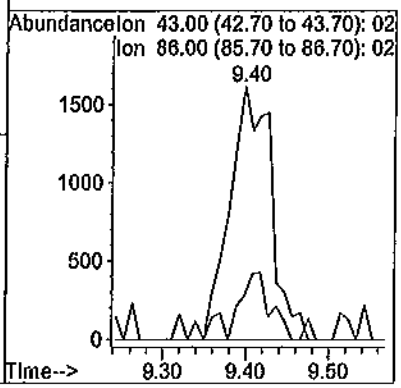




#25
Vinyl Acetate
Concen: 0.26519 ppb
RT: 9.40 min Scan# 636
Delta R.T. 0.00 min
Lab File: 0203C15W.D
Acq: 3 Feb 12 18:46

Tgt Ion: 43 Resp: 1617

Ion	Ratio	Lower	Upper
43	100		
86	27.6	16.5	30.7



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C15W.D Vial: 1
Acq On : 3 Feb 12 18:46 Operator: RS, ARS
Sample : AY54075W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:16 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	TIC	1054832	25.00000	ppb	0.02
3) Chlorobenzene-D5 (IS)	18.01	TIC	1026348	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.21	TIC	1032055	25.00000	ppb	0.02

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.47	TIC	21608059m	43.59651	ppb	ND 100

No Gasoline Pattern
ARS 2/9/12

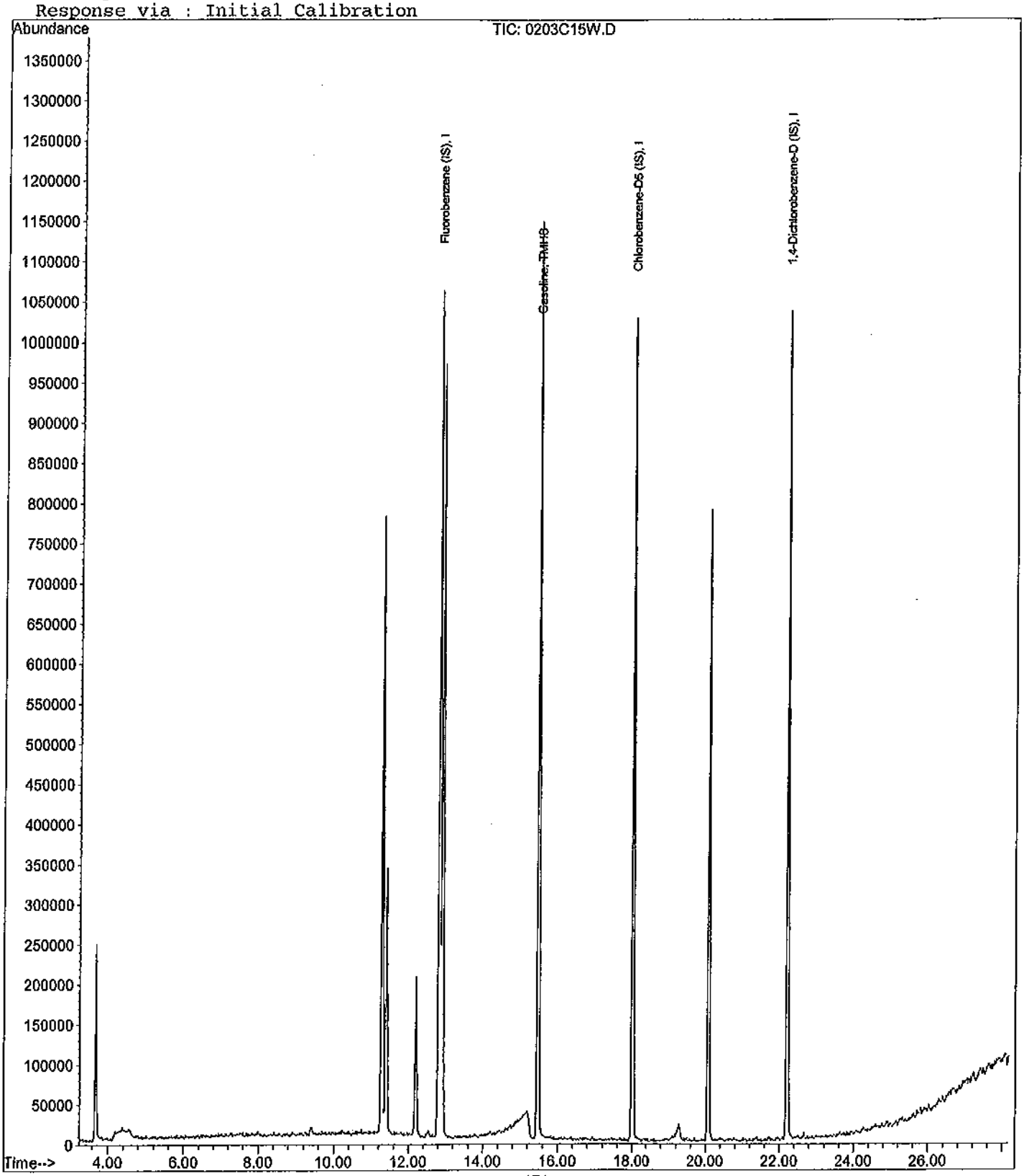
(#) = qualifier out of range (m) = manual integration

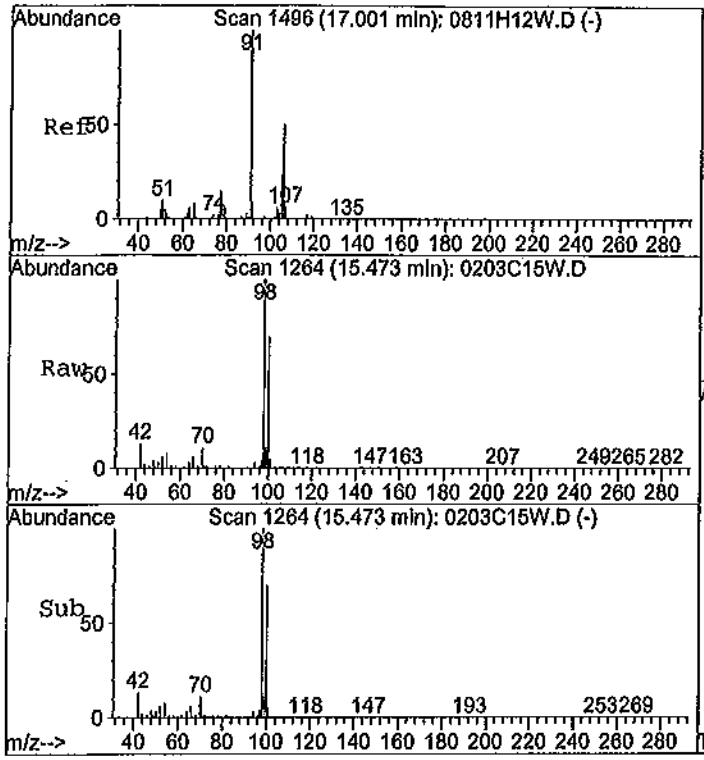
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C15W.D Vial: 1
Acq On : 3 Feb 12 18:46 Operator: RS, ARS
Sample : AY54075W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:16 2012 Quant Results File: CGAS.RES

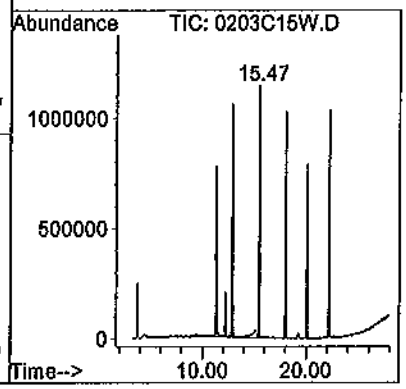
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration





#2
Gasoline
Concen: 43.59651 ppb m
RT: 15.47 min Scan# 1264
Delta R.T. -0.11 min
Lab File: 0203C15W.D
Acq: 3 Feb 12 18:46

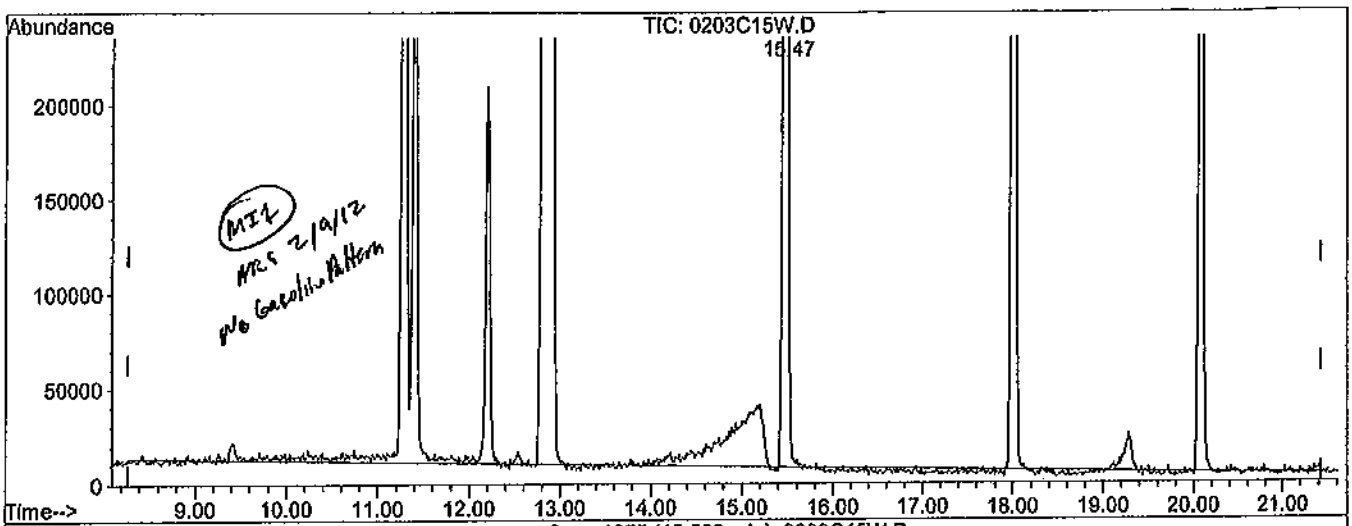
Tgt Ion:TIC Resp:21608059

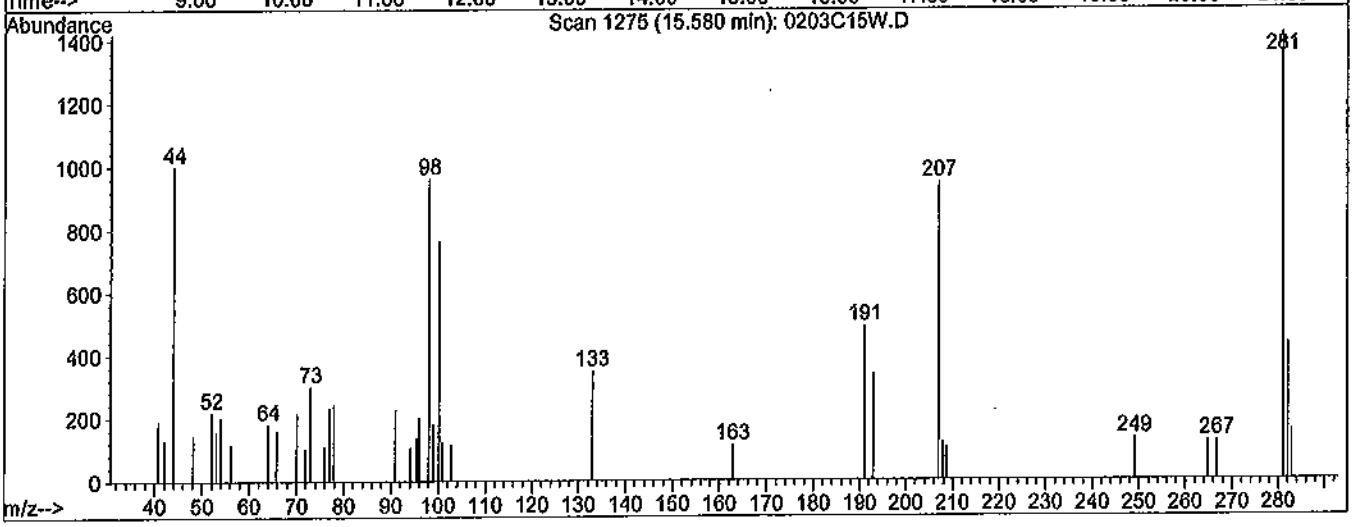


Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C15W.D Vial: 1
Acq On : 3 Feb 12 18:46 Operator: RS, ARS
Sample : AY54075W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:08 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0203C15W.D

(2) Gasoline (TMHB)

15.58min -5.6157ppb m

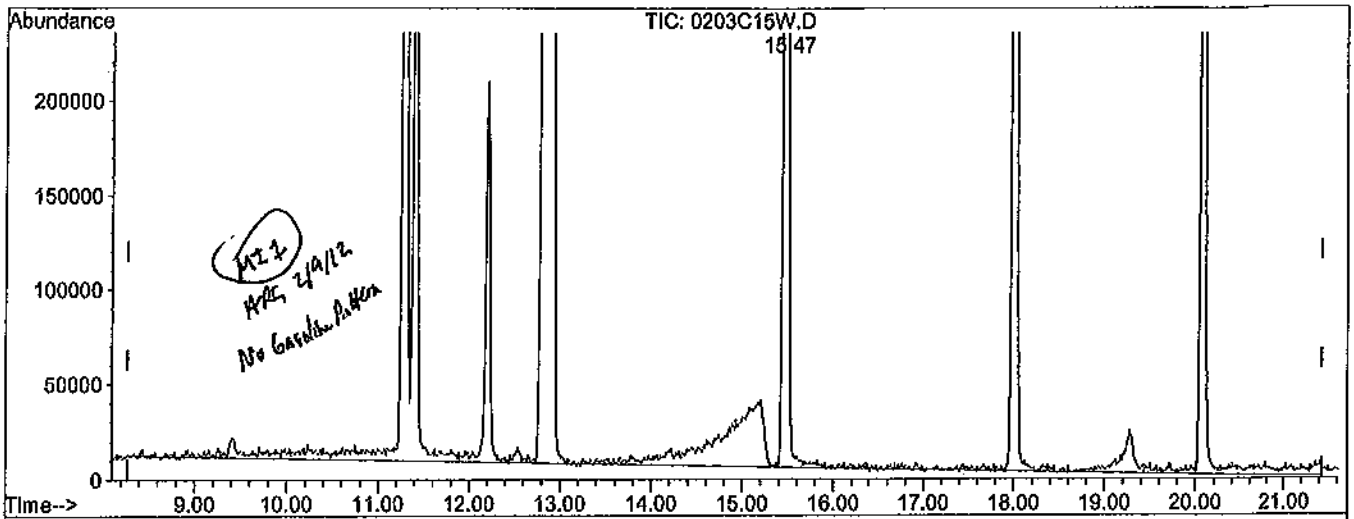
response 17096713

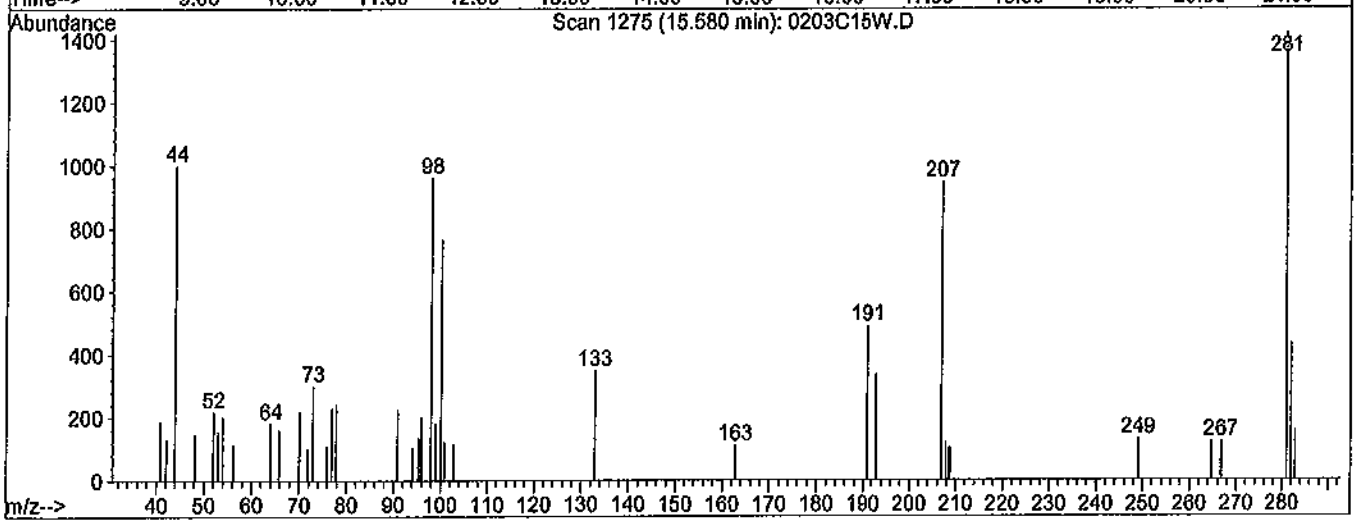
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.61#
0.00	0.00	1.76#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C15W.D Vial: 1
Acq On : 3 Feb 12 18:46 Operator: RS, ARS
Sample : AY54075W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:16 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0203C15W.D

(2) Gasoline (TMHB)

15.47min 43.5965ppb m

response 21608059

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.48#
0.00	0.00	1.40#
0.00	0.00	0.00

0203C15W.D CGAS.M Thu Feb 09 11:16:41 2012

EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen
Project: RED HILL/1022-015
Sample ID: TRIP BLANK
Sample Collection Date: 02/01/12

ARF: 66864
APPL ID: AY54076
QCG: #86RHB-120203AC-163650

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	02/03/12	02/03/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	02/03/12	02/03/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/03/12	02/03/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	02/03/12	02/03/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	02/03/12	02/03/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	02/03/12	02/03/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	02/03/12	02/03/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	02/03/12	02/03/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	02/03/12	02/03/12
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	02/03/12	02/03/12
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	02/03/12	02/03/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	02/03/12	02/03/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	02/03/12	02/03/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	02/03/12	02/03/12
EPA 8260B	GASOLINE	12.12 U MI1	20.0	12.12	6.06	ug/L	02/03/12	02/03/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	02/03/12	02/03/12
EPA 8260B	METHYLENE CHLORIDE	0.37 J	5.0	0.70	0.35	ug/L	02/03/12	02/03/12

J = Estimated value.
U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
(MI1) Manual integration: Integration does not follow baseline.

Quant Method: CALLW.M
Run #: 0203C13
Instrument: Chico
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/09/12 4:25:51 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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66864

Sample ID: TRIP BLANK

APPL ID: AY54076

Sample Collection Date: 02/01/12

QCG: #86RHB-120203AC-163650

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	02/03/12	02/03/12
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	02/03/12	02/03/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	02/03/12	02/03/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	103	70-120			%	02/03/12	02/03/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	100	75-120			%	02/03/12	02/03/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	98.5	85-115			%	02/03/12	02/03/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	95.8	85-120			%	02/03/12	02/03/12

J = Estimated value.
U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
(MI1) Manual integration: Integration does not follow baseline.

Quant Method: CALLW.M
Run #: 0203C13
Instrument: Chlco
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/09/12 4:25:51 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C13W.D
Acq On : 3 Feb 12 17:31
Sample : AY54076W01
Misc : Water 10mLw/ IS&S:01-30C&01-20

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 6 8:45 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.82	96	531717	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	18.01	117	367488	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	187776	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.41	111	317250	22.09707 ppb	0.00
Spiked Amount 22.441			Recovery = 98.466%		
37) 1,2-DCA-D4(S)	12.21	65	225840	22.28984 ppb	0.00
Spiked Amount 21.710			Recovery = 102.672%		
55) Toluene-D8(S)	15.48	98	1263187	23.02203 ppb	0.00
Spiked Amount 24.025			Recovery = 95.827%		
63) 4-Bromofluorobenzene(S)	20.08	95	475882	25.97010 ppb	0.00
Spiked Amount 25.909			Recovery = 100.234%		
Target Compounds					Qvalue
19) Methylene chloride	8.46	84	5091	0.37464 ppb J	96
25) Vinyl Acetate	9.40	43	1700	0.31036 ppb NT	99

ARS 2/6/12

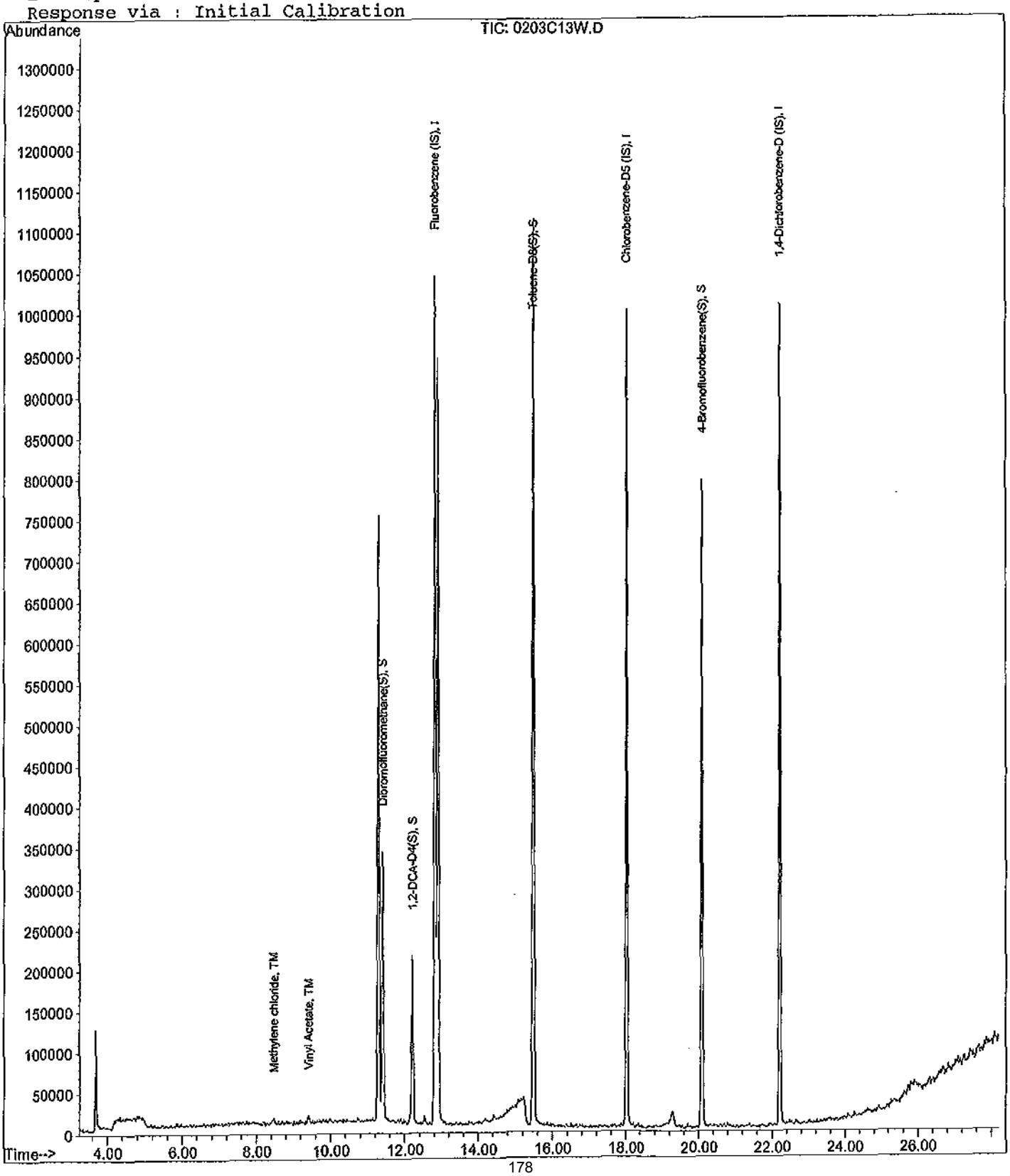
(#) = qualifier out of range (m) = manual integration
0203C13W.D CALLW.M Mon Feb 06 13:32:42 2012

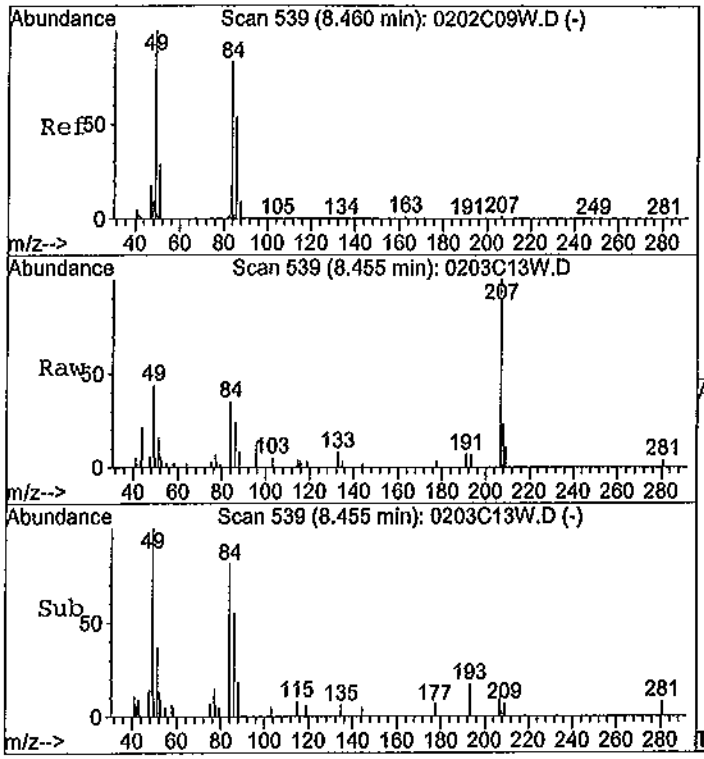
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C13W.D Vial: 1
Acq On : 3 Feb 12 17:31 Operator: RS, ARS
Sample : AY54076W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 6 8:45 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration

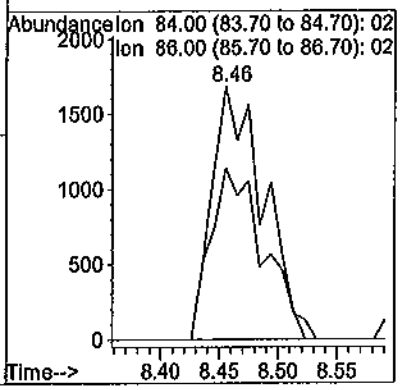


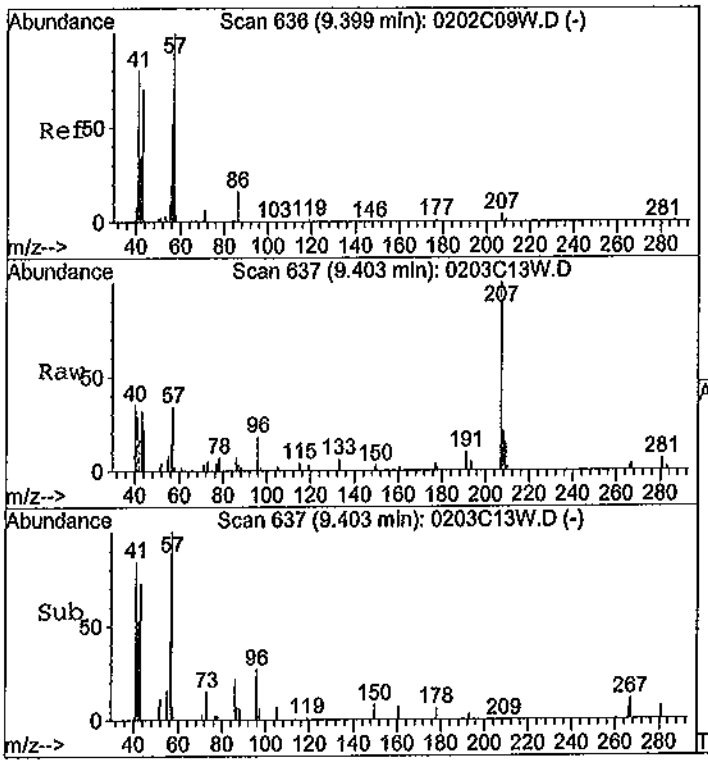


#19
Methylene chloride
Concen: 0.37464 ppb
RT: 8.46 min Scan# 539
Delta R.T. -0.00 min
Lab File: 0203C13W.D
Acq: 3 Feb 12 17:31

Tgt Ion: 84 Resp: 5091

Ion	Ratio	Lower	Upper
84	100		
86	67.8	45.3	84.1

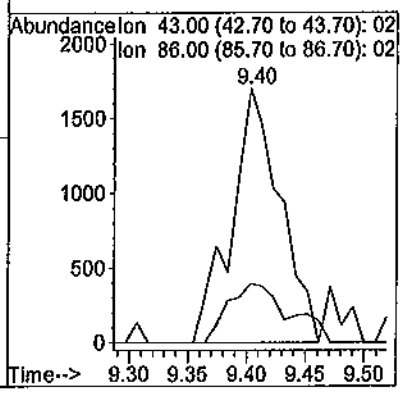




#25
Vinyl Acetate
Concen: 0.31036 ppb
RT: 9.40 min Scan# 637
Delta R.T. 0.01 min
Lab File: 0203C13W.D
Acq: 3 Feb 12 17:31

Tgt Ion: 43 Resp: 1700

Ion	Ratio	Lower	Upper
43	100		
86	23.3	16.5	30.7



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C13W.D Vial: 1
Acq On : 3 Feb 12 17:31 Operator: RS, ARS
Sample : AY54076W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:15 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.82	TIC	1035915	25.00000	ppb	0.03
3) Chlorobenzene-D5 (IS)	18.00	TIC	998196	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.20	TIC	1002556	25.00000	ppb	0.02

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.48	TIC	21887049m	50.99984	ppb	ND 100

No Gasoline Pattern

ARS 2/9/12

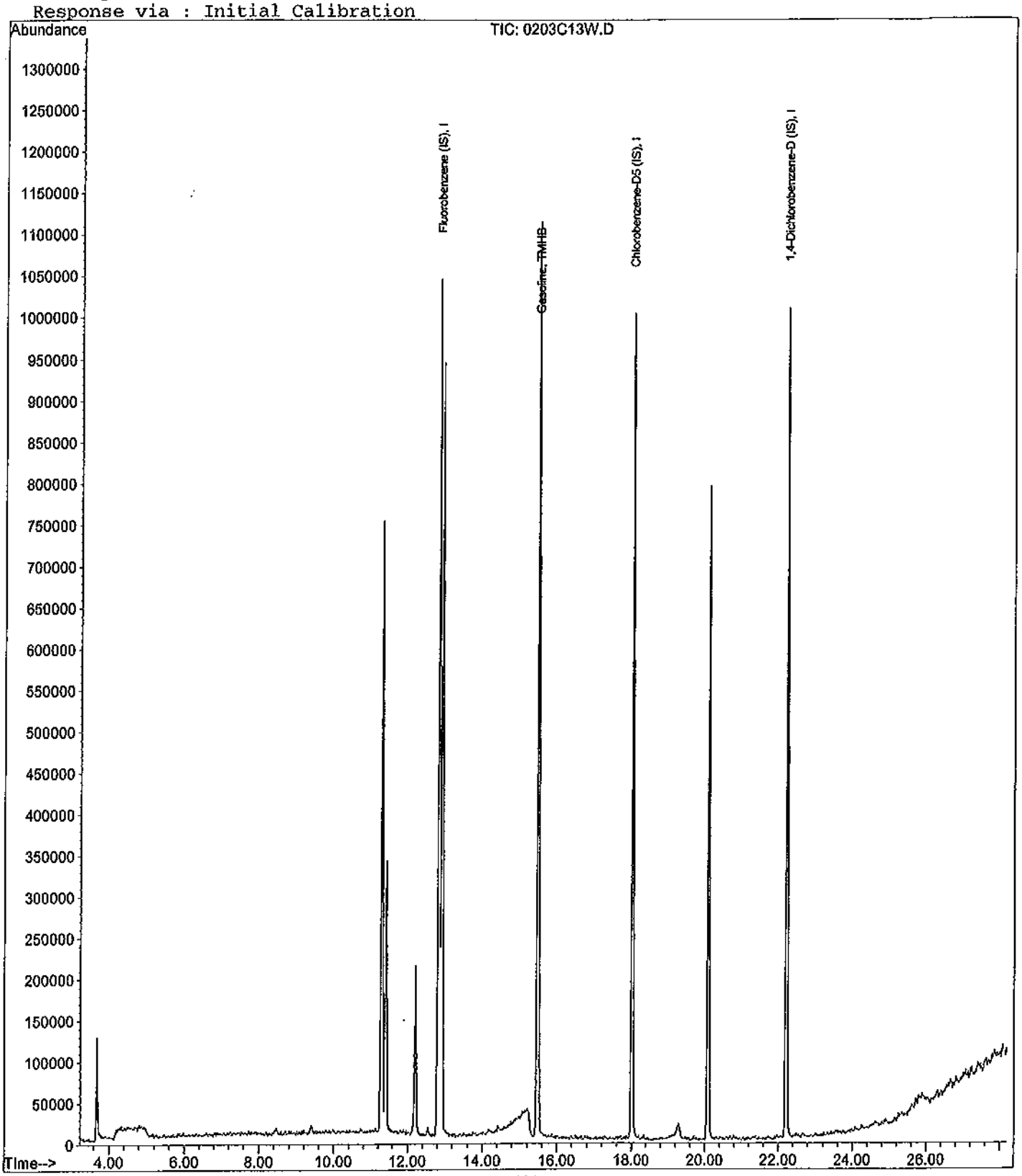
(#) = qualifier out of range (m) = manual integration
0203C13W.D CGAS.M Thu Feb 09 11:17:06 2012 Page 1

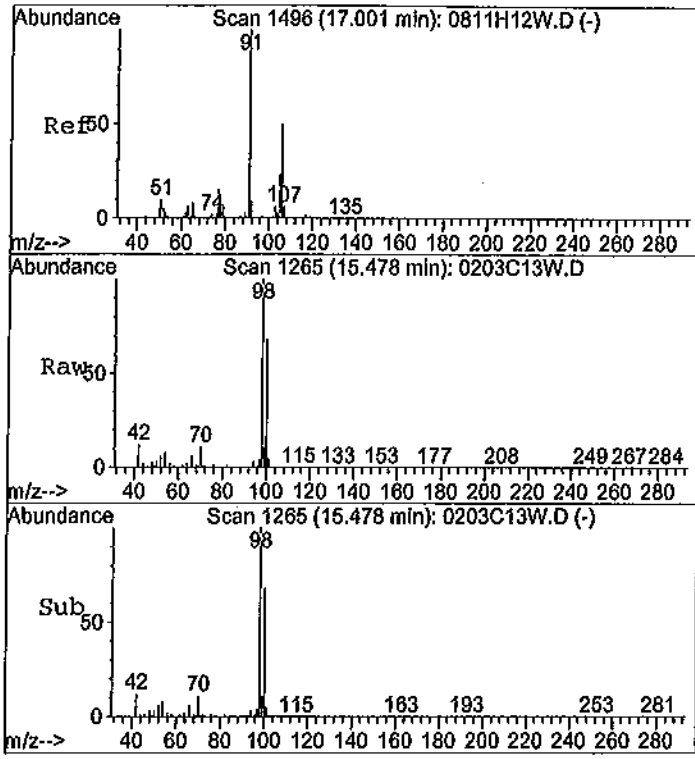
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C13W.D Vial: 1
Acq On : 3 Feb 12 17:31 Operator: RS, ARS
Sample : AY54076W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:15 2012 Quant Results File: CGAS.RES

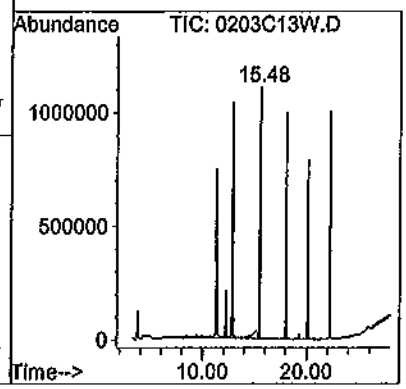
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration





#2
Gasoline
Concen: 50.99984 ppb m
RT: 15.48 min Scan# 1265
Delta R.T. -0.11 min
Lab File: 0203C13W.D
Acq: 3 Feb 12 17:31

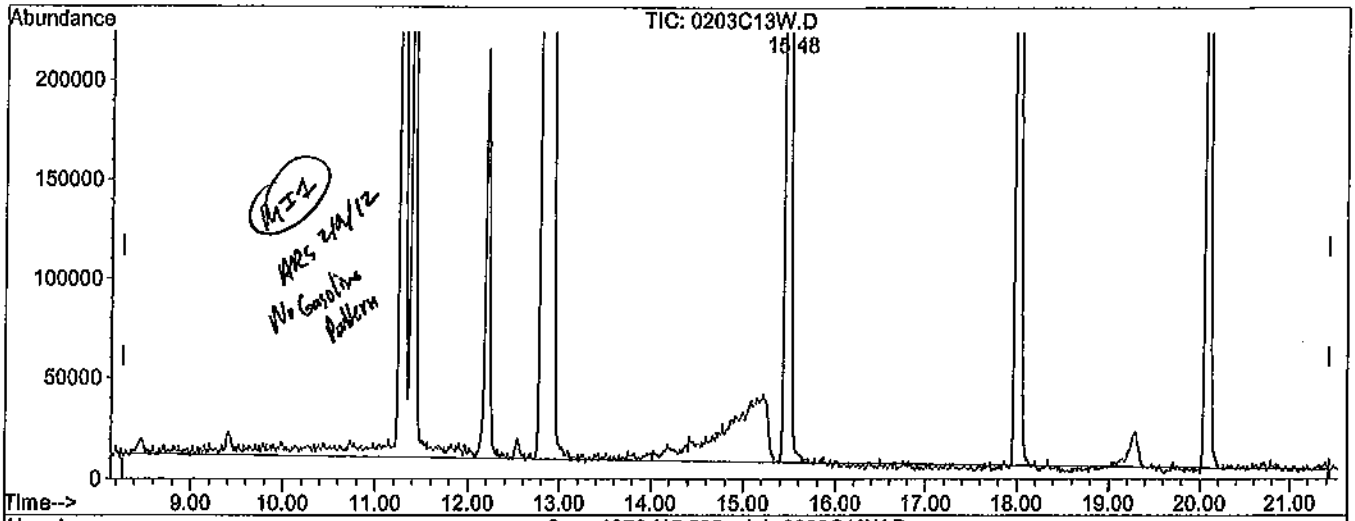
Tgt Ion:TIC Resp:21887049

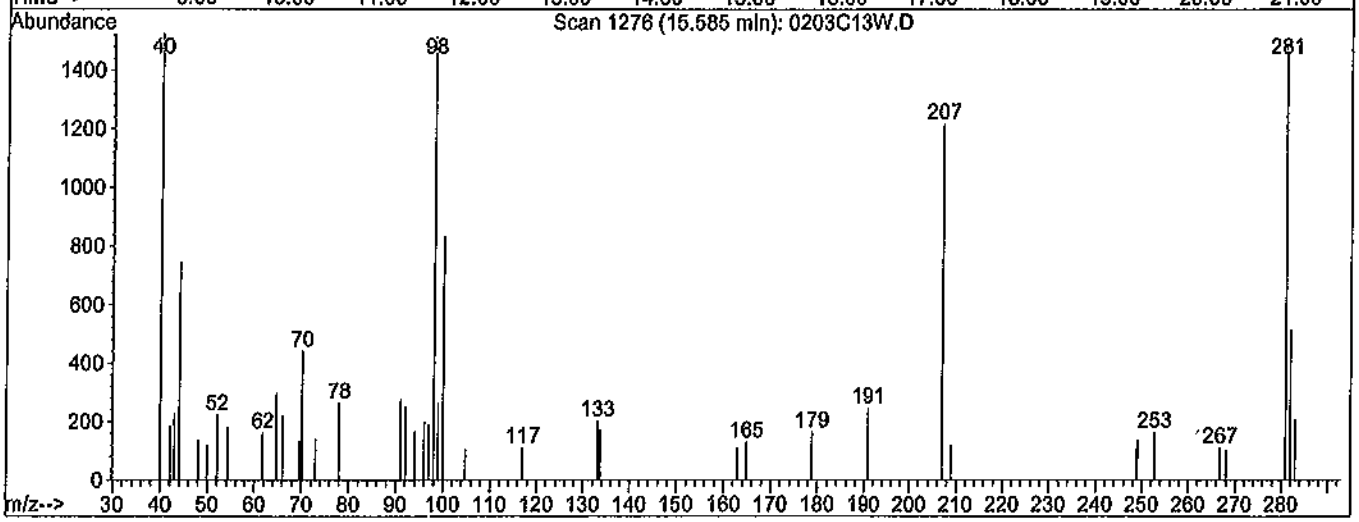


Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C13W.D Vial: 1
Acq On : 3 Feb 12 17:31 Operator: RS, ARS
Sample : AY54076W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:08 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0203C13W.D

(2) Gasoline (TMHB)

15.58min -5.5528ppb m

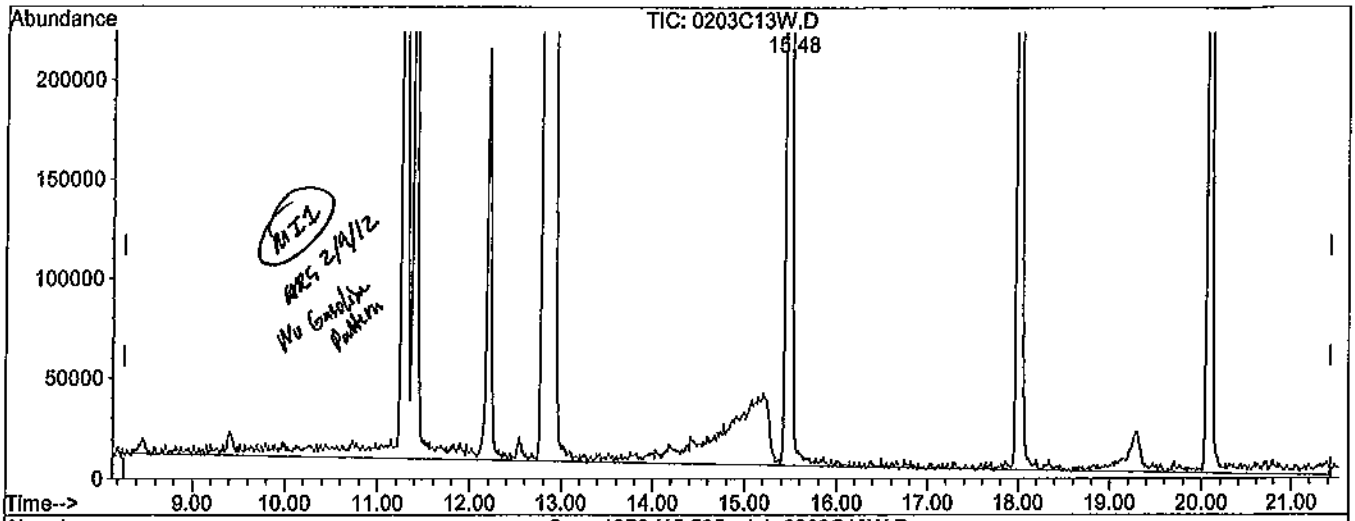
response 16795762

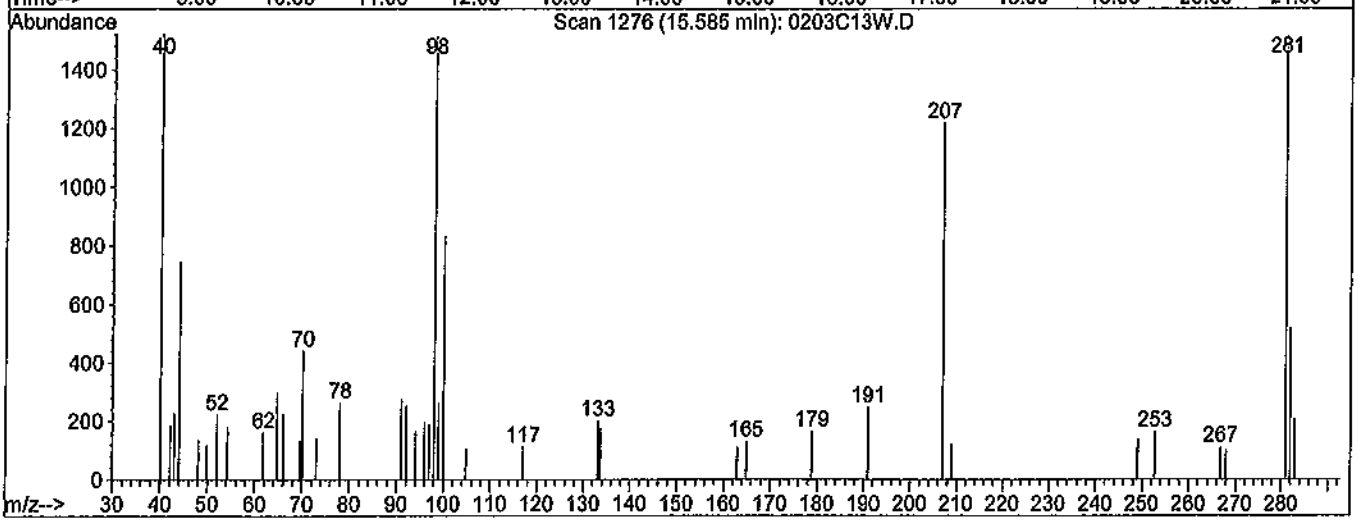
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.61#
0.00	0.00	1.71#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C13W.D Vial: 1
Acq On : 3 Feb 12 17:31 Operator: RS, ARS
Sample : AY54076W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:15 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0203C13W.D

(2) Gasoline (TMHB)

15.48min 50.9998ppb m

response 21887049

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.47#
0.00	0.00	1.31#
0.00	0.00	0.00

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: 66864
Case No: Initial Cal. Date: 02/02/12
Matrix: Water Instrument: Chico
Initials:

		Compound	0202C05W.D	0202C06W.D	0202C07W.D	0202C08W.D	0202C09W.D	0202C10W.D	0202C11W.D	0202C12W.D			Avg	%RSD		r2
			0.3	0.5	1	5	10	40	100	200						
1	I	Fluorobenzene (IS)														
2	TM	Dichlorodifluoromethane		0.8010	0.8393	0.8187	0.6389	0.9181	0.8532	0.7687			0.81	11	TM	
3	TM	Freon 114		0.6593	0.5769	0.5111	0.5915	0.5802	0.5515	0.5042			0.57	9.3	TM	
4	TM**	Chloromethane		0.3654	0.4186	0.3445	0.3081	0.3201	0.3429	0.3088			0.34	11	TM**	
5	TM*	Vinyl chloride		0.3159	0.2713	0.2783	0.2603	0.2098	0.1547				0.25	23	TM*	
6	TM	Bromomethane		0.2240	0.1781	0.1988	0.1987	0.2102	0.1927	0.1753			0.20	8.7	TM	
7	TML	Chloroethane		0.2187	0.1934	0.1745	0.1567	0.1533	0.1465				0.17	16	TML	1.000
8	TM	Dichlorofluoromethane	1.550	1.696	1.556	1.633	1.626	1.539	1.441	1.350			1.5	7.2	TM	
9	TM	Trichlorofluoromethane	0.2069	0.2348	0.2197	0.2099	0.1672	0.1981	0.1911	0.1653			0.20	12	TM	
10		Acetonitrile	0.0261	0.0191	0.0203	0.0213	0.0217	0.0213	0.0201	0.0187			0.02	11		
11	TM	Acrolein	0.0378	0.0325	0.0326	0.0295	0.0320	0.0320	0.0322	0.0300			0.03	7.7	TM	
12	TML	Acetone			0.0845	0.0562	0.0490	0.0436	0.0437	0.0414			0.05	31	TML	0.999
13	TM	Freon-113		0.6738	0.6882	0.6389	0.6607	0.6660	0.6546	0.5936			0.65	4.7	TM	
14	TM*	1,1-DCE		0.9339	0.8342	0.6670	0.6961	0.7016	0.6869	0.6481			0.74	14	TM*	
15	TM	t-Butanol	0.0021	0.0018	0.0021	0.0022	0.0020	0.0021	0.0020				0.00	6.8	TM	
16	TML	Methyl Acetate		0.3218	0.2948	0.1800	0.1812	0.1896	0.1780	0.1680			0.22	29	TML	0.999
17	TML	Iodomethane		0.7911	0.9412	1.126	1.201	1.258	1.290	1.213			1.1	16	TML	0.999
18	TM	Acrylonitrile		0.0681	0.0647	0.0693	0.0678	0.0693	0.0656	0.0625			0.07	3.8	TM	
19	TM	Methylene chloride				0.6958	0.6861	0.6331	0.6093	0.5703			0.64	8.2	TM	
20	TM	Carbon disulfide	0.8320	0.8014	0.7526	0.7475	0.7948	0.7798	0.6586				0.77	7.3	TM	
21	TM	Methyl t-butyl ether (MtBE)		1.134	0.9190	0.9734	0.9566	0.9234	0.8711	0.8148			0.94	11	TM	
22	TM	Trans-1,2-DCE		0.9953	0.9526	0.8149	0.8510	0.8304	0.8017	0.7518			0.86	10	TM	
23	TM	Diisopropyl Ether		2.156	1.999	2.223	2.085	1.976	1.882	1.723			2.0	8.4	TM	
24	TM**	1,1-DCA	1.517	1.454	1.251	1.332	1.333	1.273	1.205	1.125			1.3	9.8	TM**	
25	TML	Vinyl Acetate		0.2244	0.1957	0.1148	0.1294	0.1182	0.1194				0.15	32	TML	1.000
26	TM	Ethyl tert Butyl Ether		1.439	1.336	1.501	1.447	1.402	1.315	1.205			1.4	7.2	TM	
27	TM	MEK (2-Butanone)			0.0643	0.0528	0.0528	0.0556	0.0501	0.0444			0.05	12	TM	
28	TML	Cis-1,2-DCE		1.354	1.083	0.8547	0.8404	0.8196	0.7803	0.7258			0.92	24	TML	0.999
29	TM	2,2-Dichloropropane	1.202	1.254	1.074	1.077	1.084	1.045	0.9710	0.9089			1.1	10	TM	
30	TM*	Chloroform	0.9130	0.7656	0.7382	0.8435	0.8160	0.7984	0.7617	0.7192			0.79	7.9	TM*	
31	TM	Bromochloromethane	0.3697	0.2445	0.2470	0.2856	0.2834	0.2888	0.2782	0.2523			0.28	14	TM	
32	S	Dibromofluoromethane(S)		0.6874	0.6817	0.6949	0.6505	0.6717	0.6642				0.68	2.4	S	
33	TM	1,1,1-TCA		1.122	1.125	1.165	1.142	1.156	1.105	1.023			1.1	4.2	TM	
34	TM	Cyclohexane		1.278	1.154	1.097	1.137	1.150	1.148	1.064			1.1	5.8	TM	
35	TM	1,1-Dichloropropene	0.9559	1.051	1.039	0.9474	0.9841	0.9489	0.9330	0.8709			0.97	6.0	TM	

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66864
Case No: Initial Cal. Date: 02/02/12
Matrix: Water Instrument: Chico Initials:

		Compound	0.3	0.5	1	5	10	40	100	200			Avg	%RSD		r2
36	TM	2,2,4-Trimethylpentane			1.942	1.743	1.883	1.795	1.860	1.732			1.8	4.6	TM	
37	S	1,2-DCA-D4(S)		0.5296	0.4795	0.4821	0.4582	0.4643	0.4446				0.48	6.2	S	
38	TM	Carbon Tetrachloride	0.9462	0.8804	0.9294	0.9843	0.9768	0.9912	0.9715	0.9099			0.95	4.2	TM	
39	TM	Tert Amyl Methyl Ether	1.244	1.300	1.193	1.191	1.098	1.068	1.025	0.9331			1.1	11	TM	
40	TM	1,2-DCA	0.5752	0.5403	0.5565	0.5597	0.5704	0.5299	0.4976	0.4583			0.54	7.5	TM	
41	TM	Benzene	3.625	3.293	3.171	2.956	3.015	2.848	2.792	2.645			3.0	10	TM	
42	TM	TCE		0.7828	0.7743	0.8566	0.8363	0.8017	0.7708	0.7053			0.79	6.2	TM	
43	TM	2-Pentanone	0.1499	0.1220	0.1303	0.1309	0.1279	0.1375	0.1332	0.1264			0.13	6.4	TM	
44	TM*	1,2-Dichloropropane	0.8965	0.6708	0.6354	0.6676	0.6473	0.6265	0.6086				0.68	14	TM*	✓
45	TM	Bromodichloromethane		0.6725	0.6244	0.7657	0.7550	0.7498	0.7279	0.6828			0.71	7.4	TM	
46	TM	Methyl Cyclohexane	1.019	1.125	1.067	0.9610	1.008	1.015	1.023	0.9501			1.0	5.5	TM	
47	TM	Dibromomethane		0.2788	0.2154	0.2825	0.2842	0.2796	0.2696	0.2487			0.27	9.5	TM	
48	TM	2-Chloroethyl vinyl ether		0.2134	0.1791	0.1698	0.1729	0.1833	0.1768	0.1681			0.18	8.6	TM	
49	TM	1-Bromo-2-chloroethane		0.4544	0.4584	0.5387	0.5444	0.5186	0.4976	0.4647			0.50	7.7	TM	
50	TM	Cis-1,3-Dichloropropene		0.8490	0.8944	0.8887	0.8562	0.8648	0.8378	0.7815			0.85	4.4	TM	
51	TM*	Toluene		3.383	3.141	3.308	3.154	3.005	2.904	2.702			3.1	7.6	TM*	✓
52	TM	Trans-1,3-Dichloropropene	0.6036	0.5938	0.5199	0.5927	0.5981	0.6116	0.5921	0.5471			0.58	5.4	TM	
53	TM	1,1,2-TCA	0.2722	0.2576	0.2641	0.2899	0.2885	0.2957	0.2733	0.2499			0.27	6.0	TM	
54	I	Chlorobenzene-D5 (IS)														
55	S	Toluene-D8(S)		4.105	3.972	3.889	3.548	3.494	3.389				3.7	7.9	S	
56	TM	1,2-EDB	0.4941	0.4821	0.4347	0.5107	0.4793	0.4899	0.4566	0.4620			0.48	5.1	TM	
57	TM	Tetrachloroethene		1.010	1.118	1.112	1.070	1.021	0.9709	0.9891			1.0	5.6	TM	
58	TM	1-Chlorohexane	1.527	1.666	1.642	1.600	1.530	1.526	1.461	1.474			1.6	4.8	TM	
59	TM	1,1,1,2-Tetrachloroethane		0.7739	0.7488	0.9112	0.8671	0.8718	0.8244	0.8384			0.83	6.8	TM	
60	TM	m&p-Xylene	2.096	2.053	1.941	2.057	1.931	1.860	1.755	2.104			2.0	6.3	TM	
61	TM	o-Xylene		1.953	1.799	1.971	1.891	1.821	1.690	1.693			1.8	6.2	TM	
62	TM	Styrene	2.787	2.882	2.442	2.851	2.779	2.723	2.537	2.516			2.7	6.2	TM	
63	S	4-Bromofluorobenzene(S)		1.362	1.380	1.267	1.173	1.164	1.133				1.2	8.5	S	
64	TM	2-Hexanone		0.1803	0.1759	0.1521	0.1492	0.1670	0.1595	0.1649			0.16	7.0	TM	
65	TM	1,3-Dichloropropane	0.9499	0.9071	0.8109	0.8691	0.8434	0.8633	0.7953	0.7947			0.85	6.5	TM	
66	TM	Dibromochloromethane	0.6065	0.5317	0.5217	0.6290	0.6115	0.6548	0.6439	0.6592			0.61	8.8	TM	
67	TM**	Chlorobenzene	2.914	2.884	2.633	2.838	2.717	2.608	2.470	2.500			2.7	6.3	TM**	✓
68	TM*	Ethylbenzene	5.386	5.585	4.955	5.220	4.947	4.768	4.581	4.591			5.0	7.3	TM*	✓
69	TM**	Bromoform		0.2896	0.2769	0.2952	0.3090	0.3611	0.3643	0.3717			0.32	12	TM**	✓
70	I	1,4-Dichlorobenzene-D (IS)														

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66864
Case No: Initial Cal. Date: 02/02/12
Matrix: Water Instrument: Chico Initials:

		Compound	0.3	0.5	1	5	10	40	100	200			Avg	%RSD		r2
71	TML	MIBK (methyl isobutyl ketone)	0.7680	0.9556	0.6923	0.5412	0.5350	0.5103	0.5433	0.5446			0.64	25	TML	1.000
72	TM	Isopropylbenzene	9.579	9.889	9.296	10.3	9.750	8.395	8.624	8.793			9.3	7.2	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.7395	0.8218	0.7158	0.8453	0.8463	0.7828	0.8186	0.8289			0.80	6.1	TM**	
74	TML	1,2,3-Trichloropropane	0.0990	0.1228	0.1294	0.0849	0.0885	0.0772	0.0784	0.0809			0.10	21	TML	1.000
75	TM	t-1,4-Dichloro-2-Butene		0.2376	0.2044	0.1939	0.2018	0.1968	0.1975	0.2008			0.20	7.3	TM	
76	TM	Bromobenzene	2.708	2.628	2.170	2.432	2.213	1.961	1.984	2.006			2.3	13	TM	
77	TM	n-Propylbenzene	12.2	12.4	11.5	12.4	11.6	10.3	10.4	10.3			11	8.3	TM	
78	TM	4-Ethyltoluene	6.898	7.131	6.694	7.258	6.698	6.186	6.029	6.420			6.7	6.5	TM	
79	TM	2-Chlorotoluene	8.475	8.413	7.459	7.844	7.120	6.334	6.514	6.348			7.3	12	TM	
80	TM	1,3,5-Trimethylbenzene		8.465	7.393	8.082	7.750	6.685	6.997	6.868			7.5	8.9	TM	
81	TM	4-Chlorotoluene	6.945	7.092	6.247	6.808	6.633	5.740	5.685	5.883			6.4	8.8	TM	
82	TM	Tert-Butylbenzene	8.690	9.171	8.069	8.771	8.140	7.277	7.284	7.369			8.1	9.1	TM	
83	TM	1,2,4-Trimethylbenzene	8.116	8.005	7.735	8.300	7.738	6.803	6.951	7.018			7.6	7.6	TM	
84	TM	Sec-Butylbenzene	10.8	11.5	10.1	11.2	10.5	9.420	9.620	9.661			10	7.5	TM	
85	TM	p-Isopropyltoluene		9.001	8.514	9.068	8.479	7.614	7.818	7.824			8.3	7.1	TM	
86	TM	Benzyl Chloride		1.593	1.229	1.519	1.350	1.421	1.445	1.425			1.4	8.2	TM	
87	TM	1,3-DCB	4.513	5.082	4.271	4.691	4.370	3.884	3.863	3.910			4.3	10	TM	
88	TM	1,4-DCB	4.412	4.512	3.956	4.254	4.054	3.667	3.654	3.640			4.0	8.7	TM	
89	TML	Hexachloroethane		0.9462	0.9818	1.665	1.639	1.802	1.819	1.833			1.5	26	TML	1.000
90	TM	n-Butylbenzene		8.413	7.230	7.937	7.501	6.722	6.832	6.817			7.4	8.7	TM	
91	TM	1,2-DCB	3.917	4.001	3.335	3.678	3.594	3.180	3.098	3.059			3.5	11	TM	
92	TM	1,2-Dibromo-3-chloropropane			0.1400	0.1363	0.1440	0.1232	0.1236	0.1302			0.13	6.5	TM	
93	TM	1,2,4-Trichlorobenzene		1.188	0.9583	1.069	0.9948	0.9482	0.9317	0.8908			1.00	10	TM	
94	TML	Hexachlorobutadiene	1.565	2.402	1.354	1.293	1.108	1.067	1.089	1.098			1.4	33	TML	1.000
95	TM	Naphthalene		3.168	2.705	3.085	3.085	2.766	2.644	2.577			2.9	8.5	TM	
96	TM	1,2,3-Trichlorobenzene		0.9228	0.7206	0.8463	0.8120	0.7304	0.6735	0.6832			0.77	12	TM	
97																
98																
99																
100																
101																
102																
103																
104																
105																

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C05W.D Vial: 1
Acq On : 2 Feb 12 17:16 Operator: RS, ARS
Sample : Vol Std 02-02-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	570993	25.00000	ppb		0.00
54) Chlorobenzene-D5 (IS)	18.01	117	414528	25.00000	ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.21	152	210496	25.00000	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	11.39	111	9939	0.64465	ppb		-0.01
Spiked Amount 22.441			Recovery =	2.874%			
37) 1,2-DCA-D4(S)	12.21	65	7532	0.69226	ppb		0.00
Spiked Amount 21.710			Recovery =	3.187%			
55) Toluene-D8(S)	15.48	98	41347	0.66805	ppb		0.00
Spiked Amount 24.025			Recovery =	2.780%			
63) 4-Bromofluorobenzene(S)	20.08	95	15187	0.73474	ppb		0.00
Spiked Amount 25.909			Recovery =	2.837%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.08	85	3704	0.20135	ppb	#	81
3) Freon 114	4.33	85	3191	0.24606	ppb		96
4) Chloromethane	4.57	50	2846	0.36214	ppb	#	82
5) Vinyl chloride	4.83	62	2894	0.51015	ppb		92
6) Bromomethane	5.72	94	1009	0.22447	ppb	#	42
7) Chloroethane	5.92	64	1945	-0.16287	ppb	#	70
8) Dichlorofluoromethane	6.00	67	10619	0.30019	ppb		96
9) Trichlorofluoromethane	6.52	103	1418	0.31179	ppb		83
10) Acetonitrile	7.66	41	8926	18.55998	ug/l		100
11) Acrolein	7.15	56	12952	17.53817	ppb		89
12) Acetone	7.29	43	593	-1.57463	ppb	#	1
13) Freon-113	7.42	101	5038	0.33744	ppb	#	53
14) 1,1-DCE	7.69	96	6797	0.40311	ppb	#	57
15) t-Butanol	7.78	59	710	15.34491	ppb	#	80
16) Methyl Acetate	8.20	43	2313	-1.12477	ppb		95
17) Iodomethane	8.15	142	3984	-0.34108	ppb	#	87
18) Acrylonitrile	8.58	53	706	0.46302	ppb	#	68
19) Methylene chloride	8.46	84	19748	1.35327	ppb		99
20) Carbon disulfide	8.55	76	5701	0.32557	ppb		97
21) Methyl t-butyl ether (MtBE	8.89	73	7979	0.37093	ppb	#	90
22) Trans-1,2-DCE	9.07	96	5863	0.29960	ppb	#	82
23) Diisopropyl Ether	9.74	45	16838	0.36742	ppb	#	82
24) 1,1-DCA	9.77	63	10394	0.34708	ppb	#	90
25) Vinyl Acetate	9.41	43	1893	0.33522	ppb		96
26) Ethyl tert Butyl Ether	10.42	59	11248	0.35744	ppb	#	89
27) MEK (2-Butanone)	10.43	43	777	0.63805	ppb	#	66
28) Cis-1,2-DCE	10.78	96	9824	-1.45263	ppb	#	67
29) 2,2-Dichloropropane	10.79	77	8233	0.33471	ppb	#	77
30) Chloroform	11.06	85	6256	0.34478	ppb		86
31) Bromochloromethane	11.31	128	2533	0.39441	ppb	#	79
33) 1,1,1-TCA	11.82	97	8802	0.34420	ppb	#	72
34) Cyclohexane	11.98	56	7250	0.27678	ppb		90
35) 1,1-Dichloropropene	12.08	75	6550	0.29679	ppb	#	82
36) 2,2,4-Trimethylpentane	12.16	57	17084	0.40964	ppb	#	91
38) Carbon Tetrachloride	12.28	117	6483	0.29920	ppb	#	69
39) Tert Amyl Methyl Ether	12.34	73	8527	0.32996	ppb	#	83
40) 1,2-DCA	12.36	62	3941	0.32193	ppb	#	87
41) Benzene	12.48	78	24841	0.35740	ppb		95
42) TCE	13.52	95	5954	0.33011	ppb		89

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C05W.D Vial: 1
Acq On : 2 Feb 12 17:16 Operator: RS, ARS
Sample : Vol Std 02-02-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Pentanone	13.19	43	51364	17.00278 ppb		94
44)	1,2-Dichloropropane	13.74	63	6143	0.39613 ppb		98
45)	Bromodichloromethane	14.09	83	5634	0.34686 ppb	#	81
46)	Methyl Cyclohexane	13.80	83	6985	0.29954 ppb		97
47)	Dibromomethane	14.16	93	2166	0.35712 ppb	#	72
48)	2-Chloroethyl vinyl ether	14.55	63	1370	0.33229 ppb	#	73
49)	1-Bromo-2-chloroethane	14.85	63	3895	0.34336 ppb		98
50)	Cis-1,3-Dichloropropene	14.99	75	9781	0.50192 ppb		84
51)	Toluene	15.61	91	24742	0.35110 ppb		91
52)	Trans-1,3-Dichloropropene	15.77	75	4136	0.31095 ppb	#	79
53)	1,1,2-TCA	16.07	83	1865	0.29812 ppb		74
56)	1,2-EDB	17.30	107	2458	0.31131 ppb	#	36
57)	Tetrachloroethene	16.76	164	6325	0.36623 ppb	#	79
58)	1-Chlorohexane	17.67	91	7596	0.29493 ppb		91
59)	1,1,1,2-Tetrachloroethane	18.12	131	4785	0.34616 ppb		87
60)	m&p-Xylene	18.33	106	20848	0.63682 ppb		94
61)	o-Xylene	19.07	106	9971	0.32840 ppb		90
62)	Styrene	19.08	104	13862	0.31084 ppb		90
65)	1,3-Dichloropropane	16.47	76	4725	0.33360 ppb		100
66)	Dibromochloromethane	16.94	129	3017	0.29961 ppb		81
67)	Chlorobenzene	18.08	112	14497	0.32436 ppb		94
68)	Ethylbenzene	18.19	91	26790	0.32287 ppb		94
69)	Bromoform	19.59	173	586	0.10908 ppb		90
71)	MIBK (methyl isobutyl keto	14.64	43	1940	0.66257 ppb	#	58
72)	Isopropylbenzene	19.70	105	24197	0.30798 ppb		97
73)	1,1,2,2-Tetrachloroethane	19.85	83	1868	0.27736 ppb	#	80
74)	1,2,3-Trichloropropane	20.12	110	250	0.41302 ppb	#	40
75)	t-1,4-Dichloro-2-Butene	20.19	53	296	0.17176 ppb	#	68
76)	Bromobenzene	20.44	156	6840	0.35905 ppb		77
77)	n-Propylbenzene	20.42	91	30841	0.32177 ppb		98
78)	4-Ethyltoluene	20.60	105	17423	0.31051 ppb		98
79)	2-Chlorotoluene	20.71	91	21408	0.34766 ppb		88
80)	1,3,5-Trimethylbenzene	20.68	105	21575	0.34335 ppb		93
81)	4-Chlorotoluene	20.78	91	17542	0.32660 ppb		95
82)	Tert-Butylbenzene	21.33	119	21951	0.32200 ppb	#	78
83)	1,2,4-Trimethylbenzene	21.38	105	20501	0.32108 ppb		93
84)	Sec-Butylbenzene	21.72	105	27160	0.31178 ppb		95
85)	p-Isopropyltoluene	21.95	119	24612	0.35086 ppb		91
86)	Benzyl Chloride	22.39	91	4070	0.33894 ppb	#	92
87)	1,3-DCB	22.10	146	11400	0.31319 ppb		90
88)	1,4-DCB	22.26	146	11145	0.32939 ppb		92
89)	Hexachloroethane	23.57	117	2745	0.80756 ppb		87
90)	n-Butylbenzene	22.67	91	23984	0.38753 ppb		87
91)	1,2-DCB	22.90	146	9895	0.33743 ppb	#	79
92)	1,2-Dibromo-3-chloropropan	24.01	155	272	0.24310 ppb		76
93)	1,2,4-Trichlorobenzene	25.55	180	3279	0.39049 ppb		93
94)	Hexachlorobutadiene	25.80	223	3954	0.28536 ppb		75
95)	Naphthalene	25.90	128	8779	0.36436 ppb	#	75
96)	1,2,3-Trichlorobenzene	26.26	180	2289	0.35314 ppb		96

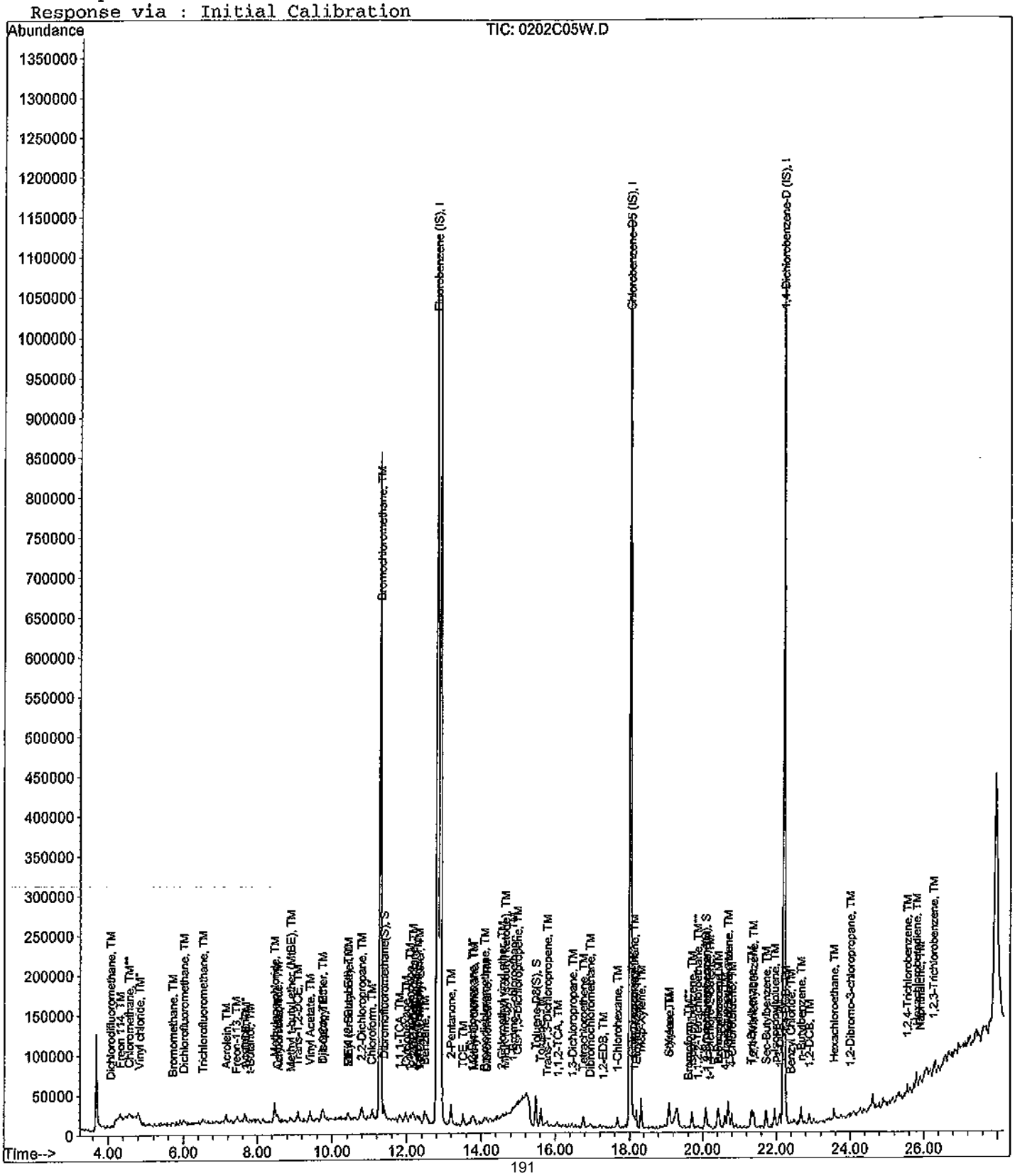
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C05W.D Vial: 1
Acq On : 2 Feb 12 17:16 Operator: RS, ARS
Sample : Vol Std 02-02-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C06W.D Vial: 1
Acq On : 2 Feb 12 17:53 Operator: RS, ARS
Sample : Vol Std 02-02-12@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	588072	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	399296	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	202432	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	16169	1.01828 ppb		0.00
Spiked Amount 22.441			Recovery = 4.536%			
37) 1,2-DCA-D4(S)	12.21	65	12457	1.11165 ppb		0.00
Spiked Amount 21.710			Recovery = 5.122%			
55) Toluene-D8(S)	15.48	98	65564	1.09974 ppb		0.00
Spiked Amount 24.025			Recovery = 4.579%			
63) 4-Bromofluorobenzene(S)	20.08	95	21760	1.09290 ppb		0.00
Spiked Amount 25.909			Recovery = 4.219%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	9421	0.49726 ppb		89
3) Freon 114	4.33	85	7754	0.58055 ppb	#	61
4) Chloromethane	4.56	50	4298	0.53102 ppb		91
5) Vinyl chloride	4.84	62	3716	0.63603 ppb		86
6) Bromomethane	5.73	94	2634	0.56895 ppb		76
8) Dichlorofluoromethane	6.01	67	19948	0.54753 ppb		85
9) Trichlorofluoromethane	6.52	103	2761	0.58946 ppb		89
10) Acetonitrile	7.66	41	11216	22.64430 ug/l		100
11) Acrolein	7.14	56	19107	25.12120 ppb		90
12) Acetone	7.28	43	1900	-0.24721 ppb	#	84
13) Freon-113	7.46	101	7925	0.51539 ppb		87
14) 1,1-DCE	7.66	96	10984	0.63251 ppb	#	81
15) t-Butanol	7.77	59	1029	21.59343 ppb	#	63
16) Methyl Acetate	8.19	43	3785	-0.77103 ppb		92
17) Iodomethane	8.14	142	9304	-0.16061 ppb		96
18) Acrylonitrile	8.56	53	801	0.51007 ppb	#	7
19) Methylene chloride	8.47	84	18391	1.22368 ppb		81
20) Carbon disulfide	8.55	76	9426	0.52266 ppb		96
21) Methyl t-butyl ether (MtBE	8.88	73	13340	0.60215 ppb	#	91
22) Trans-1,2-DCE	9.07	96	11706	0.58080 ppb		86
23) Diisopropyl Ether	9.75	45	25356	0.53723 ppb	#	81
24) 1,1-DCA	9.78	63	17097	0.55433 ppb	#	93
25) Vinyl Acetate	9.41	43	2639	0.58199 ppb		93
26) Ethyl tert Butyl Ether	10.43	59	16928	0.52231 ppb		93
27) MEK (2-Butanone)	10.43	43	810	0.64583 ppb	#	66
28) Cis-1,2-DCE	10.79	96	15921	-1.11435 ppb		74
29) 2,2-Dichloropropane	10.79	77	14746	0.58208 ppb	#	66
30) Chloroform	11.08	85	9004	0.48181 ppb		83
31) Bromochloromethane	11.30	128	2876	0.43481 ppb	#	13
33) 1,1,1-TCA	11.83	97	13201	0.50123 ppb	#	82
34) Cyclohexane	11.97	56	15028	0.55706 ppb		92
35) 1,1-Dichloropropene	12.08	75	12365	0.54400 ppb		88
36) 2,2,4-Trimethylpentane	12.16	57	30298	0.70539 ppb		94
38) Carbon Tetrachloride	12.27	117	10355	0.46402 ppb		94
39) Tert Amyl Methyl Ether	12.33	73	15284	0.57425 ppb	#	90
40) 1,2-DCA	12.35	62	6355	0.50405 ppb		96
41) Benzene	12.49	78	38728	0.54101 ppb		99
42) TCE	13.52	95	9207	0.49564 ppb		87
43) 2-Pentanone	13.18	43	71724	23.05292 ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C06W.D Vial: 1
Acq On : 2 Feb 12 17:53 Operator: RS, ARS
Sample : Vol Std 02-02-12@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,2-Dichloropropane	13.74	63	7889	0.49395 ppb		99
45)	Bromodichloromethane	14.09	83	7910	0.47284 ppb	#	96
46)	Methyl Cyclohexane	13.79	83	13230	0.55087 ppb		88
47)	Dibromomethane	14.15	93	3279	0.52493 ppb	#	74
48)	2-Chloroethyl vinyl ether	14.55	63	2510	0.59111 ppb	#	80
49)	1-Bromo-2-chloroethane	14.85	63	5344	0.45741 ppb		94
50)	Cis-1,3-Dichloropropene	14.97	75	9986	0.49756 ppb	#	81
51)	Toluene	15.61	91	39794	0.54830 ppb		99
52)	Trans-1,3-Dichloropropene	15.77	75	6984	0.50982 ppb	#	72
53)	1,1,2-TCA	16.07	83	3030	0.47027 ppb	#	55
56)	1,2-EDB	17.31	107	3850	0.50621 ppb	#	97
57)	Tetrachloroethene	16.76	164	8068	0.48497 ppb		93
58)	1-Chlorohexane	17.68	91	13303	0.53623 ppb		88
59)	1,1,1,2-Tetrachloroethane	18.13	131	6180	0.46414 ppb		79
60)	m&p-Xylene	18.33	106	32788	1.03974 ppb		99
61)	o-Xylene	19.08	106	15594	0.53318 ppb		97
62)	Styrene	19.09	104	23014	0.53574 ppb		97
64)	2-Hexanone	16.11	43	1440	0.54928 ppb		97
65)	1,3-Dichloropropane	16.46	76	7244	0.53095 ppb	#	70
66)	Dibromochloromethane	16.95	129	4246	0.43775 ppb		84
67)	Chlorobenzene	18.08	112	23031	0.53496 ppb		86
68)	Ethylbenzene	18.19	91	44605	0.55809 ppb		99
69)	Bromoform	19.62	173	2313	0.44699 ppb		83
71)	MIBK (methyl isobutyl keto	14.65	43	3869	1.11724 ppb		86
72)	Isopropylbenzene	19.70	105	40035	0.52987 ppb		99
73)	1,1,2,2-Tetrachloroethane	19.85	83	3327	0.51367 ppb	#	77
74)	1,2,3-Trichloropropane	20.13	110	497	0.80734 ppb		89
75)	t-1,4-Dichloro-2-Butene	20.18	53	962	0.58045 ppb	#	1
76)	Bromobenzene	20.43	156	10640	0.58077 ppb		87
77)	n-Propylbenzene	20.40	91	50088	0.54340 ppb		98
78)	4-Ethyltoluene	20.60	105	28870	0.53502 ppb		92
79)	2-Chlorotoluene	20.70	91	34060	0.57516 ppb		97
80)	1,3,5-Trimethylbenzene	20.68	105	34273	0.56716 ppb		99
81)	4-Chlorotoluene	20.78	91	28712	0.55586 ppb		97
82)	Tert-Butylbenzene	21.32	119	37132	0.56638 ppb		93
83)	1,2,4-Trimethylbenzene	21.37	105	32409	0.52780 ppb		94
84)	Sec-Butylbenzene	21.72	105	46495	0.55500 ppb		95
85)	p-Isopropyltoluene	21.95	119	36443	0.54022 ppb		90
86)	Benzyl Chloride	22.40	91	6451	0.55863 ppb	#	80
87)	1,3-DCB	22.09	146	20577	0.58783 ppb		97
88)	1,4-DCB	22.26	146	18268	0.56141 ppb		97
89)	Hexachloroethane	23.56	117	3831	0.88764 ppb		90
90)	n-Butylbenzene	22.66	91	34060	0.57226 ppb		87
91)	1,2-DCB	22.89	146	16199	0.57440 ppb		90
92)	1,2-Dibromo-3-chloropropan	24.10	155	887	0.82434 ppb		93
93)	1,2,4-Trichlorobenzene	25.55	180	4811	0.59575 ppb		83
94)	Hexachlorobutadiene	25.81	223	9723	0.95334 ppb	#	66
95)	Naphthalene	25.90	128	12828	0.55362 ppb		93
96)	1,2,3-Trichlorobenzene	26.26	180	3736	0.59935 ppb		96

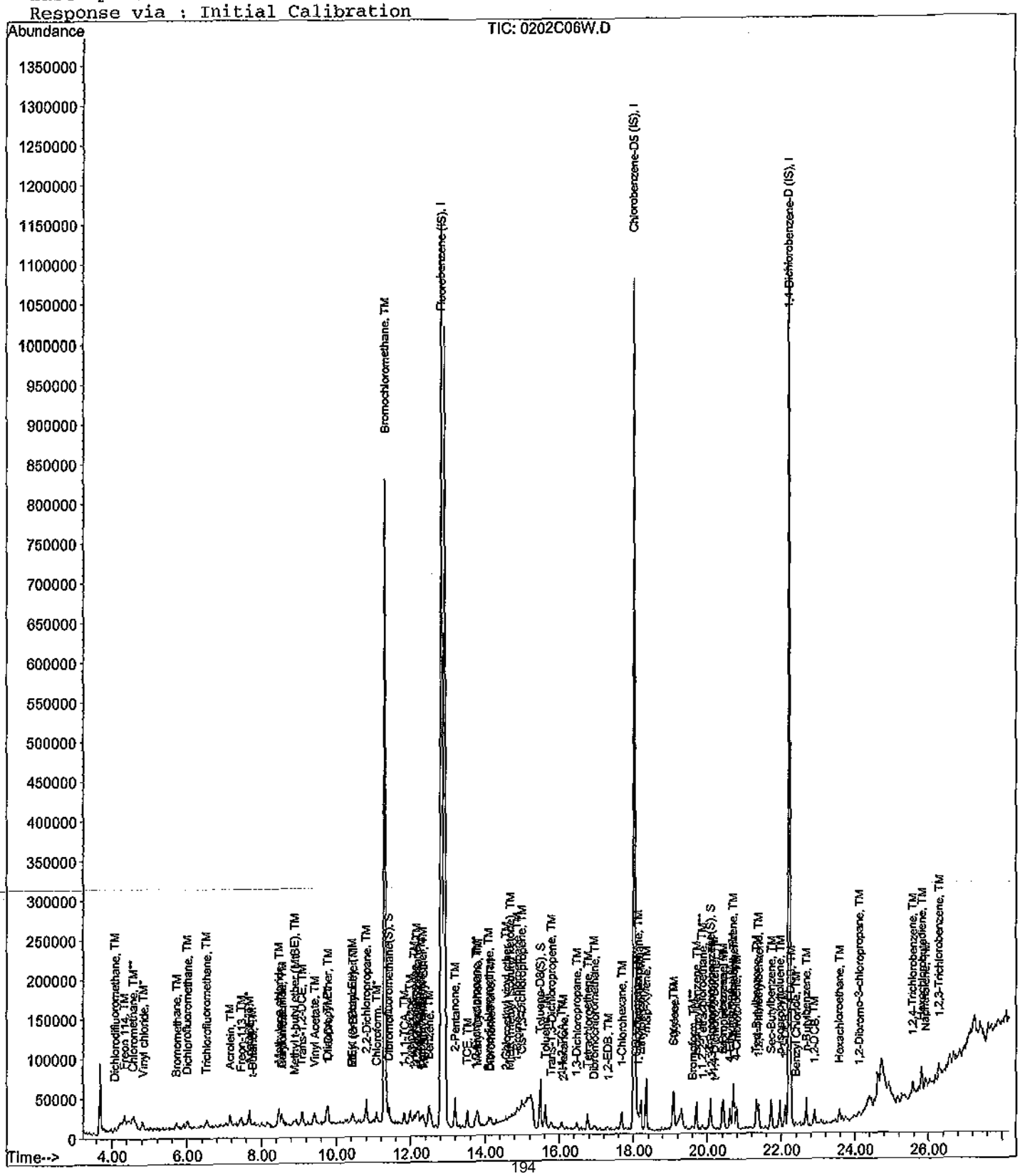
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C06W.D Vial: 1
Acq On : 2 Feb 12 17:53 Operator: RS, ARS
Sample : Vol Std 02-02-12@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C07W.D Vial: 1
Acq On : 2 Feb 12 18:30 Operator: RS, ARS
Sample : Vol Std 02-02-12@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	587000	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	406080	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	204096	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	32012	2.01971 ppb		0.00
Spiked Amount 22.441			Recovery =	9.001%		
37) 1,2-DCA-D4(S)	12.20	65	22519	2.01325 ppb		0.00
Spiked Amount 21.710			Recovery =	9.272%		
55) Toluene-D8(S)	15.48	98	129028	2.12810 ppb		0.00
Spiked Amount 24.025			Recovery =	8.858%		
63) 4-Bromofluorobenzene(S)	20.07	95	44840	2.21448 ppb		0.00
Spiked Amount 25.909			Recovery =	8.545%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	19706	1.04202 ppb		96
3) Freon 114	4.32	85	13545	1.01598 ppb		95
4) Chloromethane	4.57	50	9829	1.21659 ppb		93
5) Vinyl chloride	4.84	62	6369	1.09211 ppb		97
6) Bromomethane	5.72	94	4181	0.90476 ppb		94
7) Chloroethane	5.93	64	4540	0.57746 ppb		98
8) Dichlorofluoromethane	6.02	67	36544	1.00489 ppb		91
9) Trichlorofluoromethane	6.52	103	5159	1.10343 ppb		98
10) Acetonitrile	7.65	41	23775	48.08767 ug/l		100
11) Acrolein	7.15	56	38284	50.42635 ppb		95
12) Acetone	7.30	43	1985	-0.15596 ppb		91
13) Freon-113	7.46	101	16159	1.05279 ppb	#	83
14) 1,1-DCE	7.66	96	19588	1.13002 ppb		96
15) t-Butanol	7.76	59	2494	52.43185 ppb		95
17) Iodomethane	8.16	142	22100	0.28482 ppb		92
18) Acrylonitrile	8.56	53	1520	0.96969 ppb	#	33
19) Methylene chloride	8.46	84	21467	1.43095 ppb		96
20) Carbon disulfide	8.54	76	17672	0.98168 ppb		99
21) Methyl t-butyl ether (MtBE	8.88	73	21579	0.97583 ppb		92
22) Trans-1,2-DCE	9.07	96	22367	1.11178 ppb		94
23) Diisopropyl Ether	9.73	45	46937	0.99629 ppb		92
24) 1,1-DCA	9.76	63	29364	0.95379 ppb		96
25) Vinyl Acetate	9.41	43	4594	1.28481 ppb		98
26) Ethyl tert Butyl Ether	10.43	59	31374	0.96981 ppb		98
27) MEK (2-Butanone)	10.41	43	1510	1.20615 ppb	#	66
28) Cis-1,2-DCE	10.79	96	25427	-0.55752 ppb		81
29) 2,2-Dichloropropane	10.79	77	25211	0.99698 ppb		96
30) Chloroform	11.07	85	17334	0.92926 ppb		89
31) Bromochloromethane	11.30	128	5799	0.87832 ppb	#	71
33) 1,1,1-TCA	11.81	97	26418	1.00490 ppb		93
34) Cyclohexane	11.97	56	27106	1.00661 ppb		80
35) 1,1-Dichloropropene	12.08	75	24389	1.07496 ppb		93
36) 2,2,4-Trimethylpentane	12.16	57	45604	1.06367 ppb		94
38) Carbon Tetrachloride	12.28	117	21822	0.97965 ppb		91
39) Tert Amyl Methyl Ether	12.32	73	28011	1.05434 ppb	#	96
40) 1,2-DCA	12.35	62	13066	1.03823 ppb		96
41) Benzene	12.47	78	74463	1.04212 ppb	#	89
42) TCE	13.51	95	18181	0.98052 ppb		87
43) 2-Pentanone	13.18	43	152974	49.25740 ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C07W.D Vial: 1
Acq On : 2 Feb 12 18:30 Operator: RS, ARS
Sample : Vol Std 02-02-12@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
44)	1,2-Dichloropropane	13.74	63	14920	0.93589	ppb	#	92
45)	Bromodichloromethane	14.09	83	14662	0.87805	ppb	#	78
46)	Methyl Cyclohexane	13.80	83	25050	1.04493	ppb		95
47)	Dibromomethane	14.14	93	5058	0.81120	ppb		87
48)	2-Chloroethyl vinyl ether	14.55	63	4206	0.99233	ppb		90
49)	1-Bromo-2-chloroethane	14.86	63	10763	0.92292	ppb		95
50)	Cis-1,3-Dichloropropene	14.98	75	21001	1.04830	ppb		94
51)	Toluene	15.60	91	73743	1.01791	ppb		99
52)	Trans-1,3-Dichloropropene	15.77	75	12208	0.89280	ppb	#	82
53)	1,1,2-TCA	16.06	83	6200	0.96403	ppb	#	86
56)	1,2-EDB	17.30	107	7061	0.91289	ppb	#	99
57)	Tetrachloroethene	16.76	164	18155	1.07308	ppb		96
58)	1-Chlorohexane	17.67	91	26665	1.05688	ppb		92
59)	1,1,1,2-Tetrachloroethane	18.14	131	12163	0.89822	ppb		84
60)	m&p-Xylene	18.33	106	63043	1.96576	ppb		97
61)	o-Xylene	19.07	106	29229	0.98269	ppb		91
62)	Styrene	19.09	104	39670	0.90805	ppb		84
64)	2-Hexanone	16.13	43	2857	1.07158	ppb		79
65)	1,3-Dichloropropane	16.46	76	13171	0.94925	ppb		98
66)	Dibromochloromethane	16.95	129	8474	0.85905	ppb		76
67)	Chlorobenzene	18.07	112	42764	0.97672	ppb		87
68)	Ethylbenzene	18.19	91	80477	0.99009	ppb		97
69)	Bromoform	19.60	173	4498	0.85473	ppb	#	74
71)	MIBK (methyl isobutyl keto	14.66	43	5652	1.51145	ppb		98
72)	Isopropylbenzene	19.71	105	75895	0.99630	ppb		100
73)	1,1,2,2-Tetrachloroethane	19.86	83	5844	0.89493	ppb		88
74)	1,2,3-Trichloropropane	20.11	110	1056	1.65319	ppb	#	59
75)	t-1,4-Dichloro-2-Butene	20.20	53	1669	0.99882	ppb	#	39
76)	Bromobenzene	20.44	156	17715	0.95907	ppb		84
77)	n-Propylbenzene	20.40	91	93631	1.00752	ppb		97
78)	4-Ethyltoluene	20.61	105	54645	1.00442	ppb		96
79)	2-Chlorotoluene	20.70	91	60893	1.01989	ppb		98
80)	1,3,5-Trimethylbenzene	20.68	105	60355	0.99063	ppb		93
81)	4-Chlorotoluene	20.78	91	50996	0.97922	ppb		98
82)	Tert-Butylbenzene	21.32	119	65876	0.99662	ppb		88
83)	1,2,4-Trimethylbenzene	21.38	105	63151	1.02006	ppb		100
84)	Sec-Butylbenzene	21.72	105	82529	0.97710	ppb		91
85)	p-Isopropyltoluene	21.95	119	69509	1.02198	ppb		99
86)	Benzyl Chloride	22.39	91	10034	0.86182	ppb	#	93
87)	1,3-DCB	22.09	146	34870	0.98803	ppb		92
88)	1,4-DCB	22.26	146	32294	0.98436	ppb		98
89)	Hexachloroethane	23.56	117	8015	1.16454	ppb		91
90)	n-Butylbenzene	22.67	91	59025	0.98362	ppb		95
91)	1,2-DCB	22.89	146	27227	0.95757	ppb		92
92)	1,2-Dibromo-3-chloropropan	24.11	155	1143	1.05360	ppb		97
93)	1,2,4-Trichlorobenzene	25.55	180	7823	0.96084	ppb		98
94)	Hexachlorobutadiene	25.81	223	11051	1.09300	ppb		81
95)	Naphthalene	25.90	128	22086	0.94539	ppb		91
96)	1,2,3-Trichlorobenzene	26.26	180	5883	0.93608	ppb		99

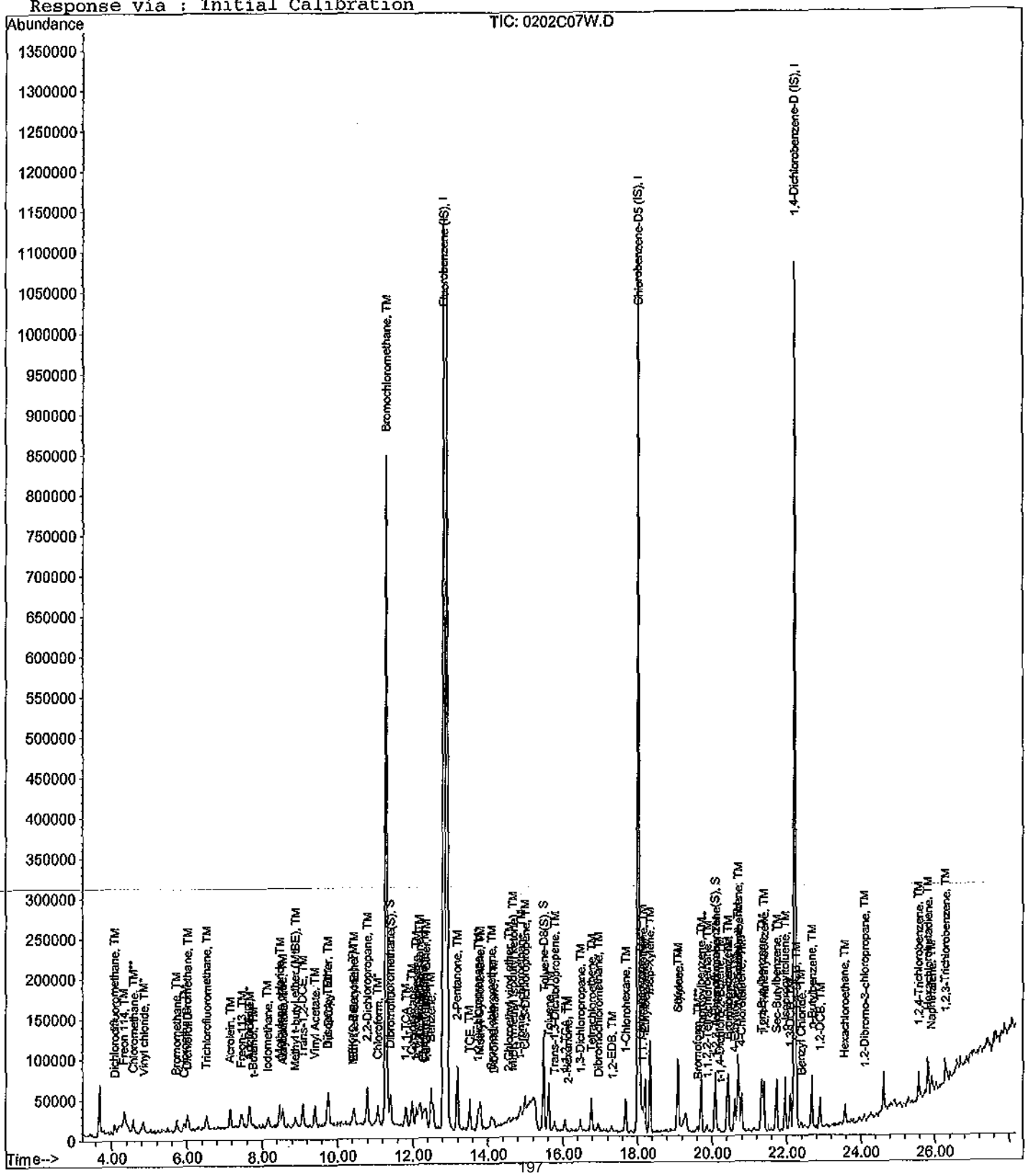
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C07W.D Vial: 1
Acq On : 2 Feb 12 18:30 Operator: RS, ARS
Sample : Vol Std 02-02-12@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C08W.D Vial: 1
Acq On : 2 Feb 12 19:08 Operator: RS, ARS
Sample : Vol Std 02-02-12@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	576880	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	407104	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	203648	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.39	111	160341	10.29373 ppb		0.00
Spiked Amount 22.441			Recovery = 45.871%			
37) 1,2-DCA-D4(S)	12.20	65	111244	10.11994 ppb		0.00
Spiked Amount 21.710			Recovery = 46.614%			
55) Toluene-D8(S)	15.47	98	633278	10.41857 ppb		0.00
Spiked Amount 24.025			Recovery = 43.368%			
63) 4-Bromofluorobenzene(S)	20.08	95	206246	10.16009 ppb		0.00
Spiked Amount 25.909			Recovery = 39.214%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	94464	5.08273 ppb		96
3) Freon 114	4.33	85	58971	4.50088 ppb		96
4) Chloromethane	4.56	50	39752	5.00663 ppb		98
5) Vinyl chloride	4.83	62	32112	5.60293 ppb		97
6) Bromomethane	5.73	94	22936	5.05038 ppb		95
7) Chloroethane	5.92	64	20136	5.22530 ppb		92
8) Dichlorofluoromethane	6.01	67	188458	5.27313 ppb		94
9) Trichlorofluoromethane	6.51	103	24216	5.27028 ppb		95
10) Acetonitrile	7.64	41	49084	101.01964 ug/l		100
11) Acrolein	7.14	56	68170	91.36632 ppb		95
12) Acetone	7.27	43	6483	4.60093 ppb		97
13) Freon-113	7.45	101	73719	4.88720 ppb		92
14) 1,1-DCE	7.66	96	76951	4.51715 ppb		93
15) t-Butanol	7.76	59	4961	106.12570 ppb	#	87
16) Methyl Acetate	8.17	43	20767	3.61277 ppb		92
17) Iodomethane	8.14	142	129934	4.11284 ppb		98
18) Acrylonitrile	8.54	53	7991	5.18732 ppb		88
19) Methylene chloride	8.46	84	80279	5.44513 ppb		92
20) Carbon disulfide	8.54	76	86248	4.87511 ppb		99
21) Methyl t-butyl ether (MtBE	8.87	73	112311	5.16793 ppb		98
22) Trans-1,2-DCE	9.08	96	94021	4.75542 ppb		94
23) Diisopropyl Ether	9.74	45	256508	5.54018 ppb		96
24) 1,1-DCA	9.77	63	153733	5.08111 ppb		97
25) Vinyl Acetate	9.40	43	13244	4.47015 ppb		100
26) Ethyl tert Butyl Ether	10.43	59	173169	5.44680 ppb		94
27) MEK (2-Butanone)	10.43	43	6088	4.94824 ppb	#	81
28) Cis-1,2-DCE	10.79	96	98617	3.81771 ppb		95
29) 2,2-Dichloropropane	10.79	77	124275	5.00074 ppb		100
30) Chloroform	11.07	85	97321	5.30879 ppb		92
31) Bromochloromethane	11.29	128	32949	5.07804 ppb		97
33) 1,1,1-TCA	11.81	97	134379	5.20125 ppb		99
34) Cyclohexane	11.98	56	126569	4.78274 ppb		95
35) 1,1-Dichloropropene	12.08	75	109303	4.90211 ppb		100
36) 2,2,4-Trimethylpentane	12.15	57	201156	4.77409 ppb		97
38) Carbon Tetrachloride	12.28	117	113560	5.18745 ppb		95
39) Tert Amyl Methyl Ether	12.33	73	137400	5.26251 ppb	#	92
40) 1,2-DCA	12.35	62	64572	5.22093 ppb		99
41) Benzene	12.48	78	341081	4.85721 ppb		99
42) TCE	13.51	95	98830	5.42353 ppb		97

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C08W.D Vial: 1
Acq On : 2 Feb 12 19:08 Operator: RS, ARS
Sample : Vol Std 02-02-12@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.17	43	302057	98.96813	ppb		97
44)	1,2-Dichloropropane	13.74	63	77026	4.91636	ppb	#	93
45)	Bromodichloromethane	14.09	83	88338	5.38305	ppb		100
46)	Methyl Cyclohexane	13.79	83	110873	4.70607	ppb		99
47)	Dibromomethane	14.14	93	32588	5.31814	ppb		85
48)	2-Chloroethyl vinyl ether	14.55	63	19596	4.70442	ppb	#	88
49)	1-Bromo-2-chloroethane	14.85	63	62154	5.42315	ppb		93
50)	Cis-1,3-Dichloropropene	14.97	75	102532	5.20784	ppb		97
51)	Toluene	15.60	91	381622	5.36014	ppb		96
52)	Trans-1,3-Dichloropropene	15.77	75	68381	5.08859	ppb		96
53)	1,1,2-TCA	16.06	83	33453	5.29283	ppb		92
56)	1,2-EDB	17.30	107	41583	5.36257	ppb	#	95
57)	Tetrachloroethene	16.75	164	90547	5.33844	ppb		96
58)	1-Chlorohexane	17.67	91	130293	5.15122	ppb		96
59)	1,1,1,2-Tetrachloroethane	18.13	131	74192	5.46521	ppb		96
60)	m&p-Xylene	18.32	106	334953	10.41799	ppb		100
61)	o-Xylene	19.08	106	160487	5.38206	ppb		92
62)	Styrene	19.09	104	232143	5.30041	ppb		92
64)	2-Hexanone	16.08	43	12385	4.63360	ppb		81
65)	1,3-Dichloropropane	16.46	76	70764	5.08722	ppb		100
66)	Dibromochloromethane	16.94	129	51215	5.17885	ppb		87
67)	Chlorobenzene	18.07	112	231047	5.26376	ppb		98
68)	Ethylbenzene	18.19	91	424989	5.21537	ppb		99
69)	Bromoform	19.60	173	24036	4.55592	ppb		98
71)	MIBK (methyl isobutyl keto	14.65	43	22044	5.21233	ppb		85
72)	Isopropylbenzene	19.69	105	420389	5.53073	ppb		99
73)	1,1,2,2-Tetrachloroethane	19.87	83	34429	5.28393	ppb	#	80
74)	1,2,3-Trichloropropane	20.11	110	3458	5.32615	ppb		95
75)	t-1,4-Dichloro-2-Butene	20.18	53	7896	4.73579	ppb	#	82
76)	Bromobenzene	20.44	156	99045	5.37398	ppb		88
77)	n-Propylbenzene	20.41	91	506757	5.46495	ppb		97
78)	4-Ethyltoluene	20.60	105	295598	5.44527	ppb		98
79)	2-Chlorotoluene	20.70	91	319501	5.36308	ppb		93
80)	1,3,5-Trimethylbenzene	20.68	105	329193	5.41505	ppb		93
81)	4-Chlorotoluene	20.78	91	277289	5.33620	ppb		99
82)	Tert-Butylbenzene	21.32	119	357257	5.41676	ppb		94
83)	1,2,4-Trimethylbenzene	21.38	105	338048	5.47242	ppb		96
84)	Sec-Butylbenzene	21.72	105	457550	5.42905	ppb		97
85)	p-Isopropyltoluene	21.95	119	369345	5.44237	ppb		99
86)	Benzyl Chloride	22.38	91	61861	5.32494	ppb		96
87)	1,3-DCB	22.09	146	191073	5.42588	ppb		99
88)	1,4-DCB	22.26	146	173273	5.29320	ppb		97
89)	Hexachloroethane	23.56	117	67814	5.16198	ppb		89
90)	n-Butylbenzene	22.66	91	323282	5.39917	ppb		98
91)	1,2-DCB	22.89	146	149796	5.27990	ppb		98
92)	1,2-Dibromo-3-chloropropan	24.11	155	5552	5.12900	ppb		96
93)	1,2,4-Trichlorobenzene	25.56	180	43544	5.35993	ppb		94
94)	Hexachlorobutadiene	25.80	223	52643	5.76034	ppb		85
95)	Naphthalene	25.90	128	125667	5.39102	ppb		97
96)	1,2,3-Trichlorobenzene	26.26	180	34468	5.49650	ppb		96

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

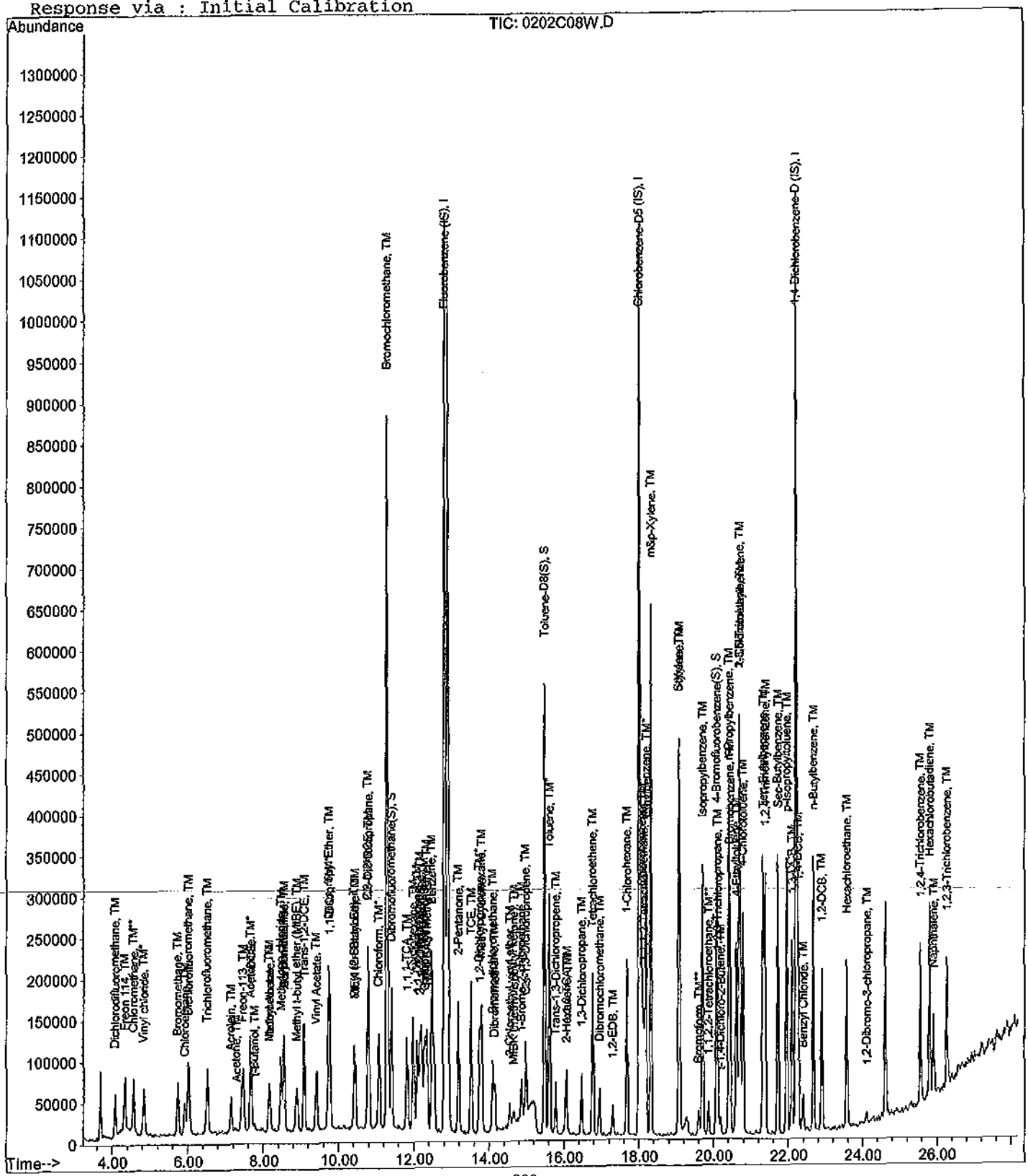
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C08W.D
Acq On : 2 Feb 12 19:08
Sample : Vol Std 02-02-12@5.0ug/L
Misc : Water 10mLw/ IS:01-31-12C

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C09W.D Vial: 1
Acq On : 2 Feb 12 19:45 Operator: RS, ARS
Sample : Vol Std 02-02-12@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	96	587426	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	18.01	117	416448	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.21	152	207872	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.40	111	382093	24.08959 ppb	0.00
Spiked Amount 22.441			Recovery = 107.347%		
37) 1,2-DCA-D4(S)	12.20	65	269146	24.04481 ppb	0.00
Spiked Amount 21.710			Recovery = 110.755%		
55) Toluene-D8(S)	15.47	98	1477413	23.76075 ppb	0.00
Spiked Amount 24.025			Recovery = 98.903%		
63) 4-Bromofluorobenzene(S)	20.08	95	488642	23.53139 ppb	0.00
Spiked Amount 25.909			Recovery = 90.820%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.08	85	150114	7.93202 ppb	100
3) Freon 114	4.33	85	138979	10.41695 ppb	100
4) Chloromethane	4.56	50	72403	8.95520 ppb	100
5) Vinyl chloride	4.82	62	61160	10.47967 ppb	100
6) Bromomethane	5.72	94	46688	10.09587 ppb	100
7) Chloroethane	5.92	64	36815	9.97508 ppb	100
8) Dichlorofluoromethane	6.00	67	381955	10.49538 ppb	100
9) Trichlorofluoromethane	6.52	103	39288	8.39699 ppb	100
10) Acetonitrile	7.65	41	63848	129.04627 ug/l	100
11) Acrolein	7.14	56	94007	123.73294 ppb	100
12) Acetone	7.28	43	11512	9.66230 ppb	100
13) Freon-113	7.44	101	155254	10.10777 ppb	100
14) 1,1-DCE	7.67	96	163571	9.42950 ppb	100
15) t-Butanol	7.75	59	5987	125.77460 ppb	100
16) Methyl Acetate	8.17	43	42572	9.02135 ppb	100
17) Iodomethane	8.15	142	282191	9.31960 ppb	100
18) Acrylonitrile	8.55	53	15932	10.15651 ppb	100
19) Methylene chloride	8.46	84	161213	10.73837 ppb	100
20) Carbon disulfide	8.54	76	186752	10.36653 ppb	100
21) Methyl t-butyl ether (MtBE	8.88	73	224776	10.15726 ppb	100
22) Trans-1,2-DCE	9.08	96	199970	9.93256 ppb	100
23) Diisopropyl Ether	9.74	45	489992	10.39308 ppb	100
24) 1,1-DCA	9.77	63	313151	10.16430 ppb	100
25) Vinyl Acetate	9.40	43	30408	10.53420 ppb	100
26) Ethyl tert Butyl Ether	10.42	59	339936	10.50028 ppb	100
27) MEK (2-Butanone)	10.41	43	12414	9.90878 ppb	100
28) Cis-1,2-DCE	10.79	96	197471	9.48125 ppb	100
29) 2,2-Dichloropropane	10.78	77	254778	10.06805 ppb	100
30) Chloroform	11.07	85	191746	10.27183 ppb	100
31) Bromochloromethane	11.29	128	66602	10.08030 ppb	100
33) 1,1,1-TCA	11.82	97	268339	10.19982 ppb	100
34) Cyclohexane	11.97	56	267092	9.91157 ppb	100
35) 1,1-Dichloropropene	12.09	75	231241	10.18469 ppb	100
36) 2,2,4-Trimethylpentane	12.15	57	442383	10.31070 ppb	100
38) Carbon Tetrachloride	12.27	117	229512	10.29594 ppb	100
39) Tert Amyl Methyl Ether	12.33	73	258037	9.70555 ppb	100
40) 1,2-DCA	12.36	62	134024	10.64188 ppb	100
41) Benzene	12.48	78	708450	9.90765 ppb	100
42) TCE	13.52	95	196496	10.58960 ppb	100

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

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C09W.D Vial: 1
Acq On : 2 Feb 12 19:45 Operator: RS, ARS
Sample : Vol Std 02-02-12@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	2-Pentanone	13.18	43	375669	120.87713 ppb	100
44)	1,2-Dichloropropane	13.74	63	152101	9.53391 ppb	100
45)	Bromodichloromethane	14.09	83	177410	10.61674 ppb	100
46)	Methyl Cyclohexane	13.79	83	236866	9.87343 ppb	100
47)	Dibromomethane	14.15	93	66789	10.70383 ppb	100
48)	2-Chloroethyl vinyl ether	14.55	63	40633	9.57966 ppb	100
49)	1-Bromo-2-chloroethane	14.85	63	127910	10.96022 ppb	100
50)	Cis-1,3-Dichloropropene	14.98	75	201186	10.03525 ppb	100
51)	Toluene	15.61	91	741177	10.22344 ppb	100
52)	Trans-1,3-Dichloropropene	15.77	75	140535	10.27019 ppb	100
53)	1,1,2-TCA	16.05	83	67789	10.53281 ppb	100
56)	1,2-EDB	17.29	107	79846	10.06596 ppb	100
57)	Tetrachloroethene	16.76	164	178235	10.27254 ppb	100
58)	1-Chlorohexane	17.67	91	254913	9.85203 ppb	100
59)	1,1,1,2-Tetrachloroethane	18.12	131	144436	10.40087 ppb	100
60)	m&p-Xylene	18.33	106	643254	19.55811 ppb	100
61)	o-Xylene	19.07	106	314918	10.32407 ppb	100
62)	Styrene	19.09	104	462923	10.33253 ppb	100
64)	2-Hexanone	16.08	43	24850	9.08852 ppb	100
65)	1,3-Dichloropropane	16.46	76	140499	9.87384 ppb	100
66)	Dibromochloromethane	16.94	129	101866	10.06956 ppb	100
67)	Chlorobenzene	18.08	112	452598	10.07983 ppb	100
68)	Ethylbenzene	18.18	91	824141	9.88676 ppb	100
69)	Bromoform	19.60	173	51476	9.53814 ppb	100
71)	MIBK (methyl isobutyl keto	14.64	43	44485	10.07115 ppb	100
72)	Isopropylbenzene	19.70	105	810741	10.44955 ppb	100
73)	1,1,2,2-Tetrachloroethane	19.86	83	70372	10.58077 ppb	100
74)	1,2,3-Trichloropropane	20.12	110	7362	11.06156 ppb	100
75)	t-1,4-Dichloro-2-Butene	20.18	53	16781	9.86024 ppb	100
76)	Bromobenzene	20.44	156	183973	9.77916 ppb	100
77)	n-Propylbenzene	20.41	91	964430	10.18923 ppb	100
78)	4-Ethyltoluene	20.60	105	556926	10.05078 ppb	100
79)	2-Chlorotoluene	20.70	91	592045	9.73600 ppb	100
80)	1,3,5-Trimethylbenzene	20.68	105	644374	10.38422 ppb	100
81)	4-Chlorotoluene	20.78	91	551501	10.39752 ppb	100
82)	Tert-Butylbenzene	21.32	119	676820	10.05347 ppb	100
83)	1,2,4-Trimethylbenzene	21.37	105	643411	10.20407 ppb	100
84)	Sec-Butylbenzene	21.71	105	872028	10.13677 ppb	100
85)	p-Isopropyltoluene	21.96	119	704990	10.17707 ppb	100
86)	Benzyl Chloride	22.39	91	112229	9.46426 ppb	100
87)	1,3-DCB	22.09	146	363347	10.10827 ppb	100
88)	1,4-DCB	22.26	146	337097	10.08850 ppb	100
89)	Hexachloroethane	23.56	117	136311	9.55442 ppb	100
90)	n-Butylbenzene	22.66	91	623737	10.20543 ppb	100
91)	1,2-DCB	22.89	146	298821	10.31860 ppb	100
92)	1,2-Dibromo-3-chloropropan	24.10	155	11976	10.83875 ppb	100
93)	1,2,4-Trichlorobenzene	25.55	180	82720	9.97529 ppb	100
94)	Hexachlorobutadiene	25.81	223	92112	9.97694 ppb	100
95)	Naphthalene	25.90	128	256531	10.78136 ppb	100
96)	1,2,3-Trichlorobenzene	26.26	180	67517	10.54794 ppb	100

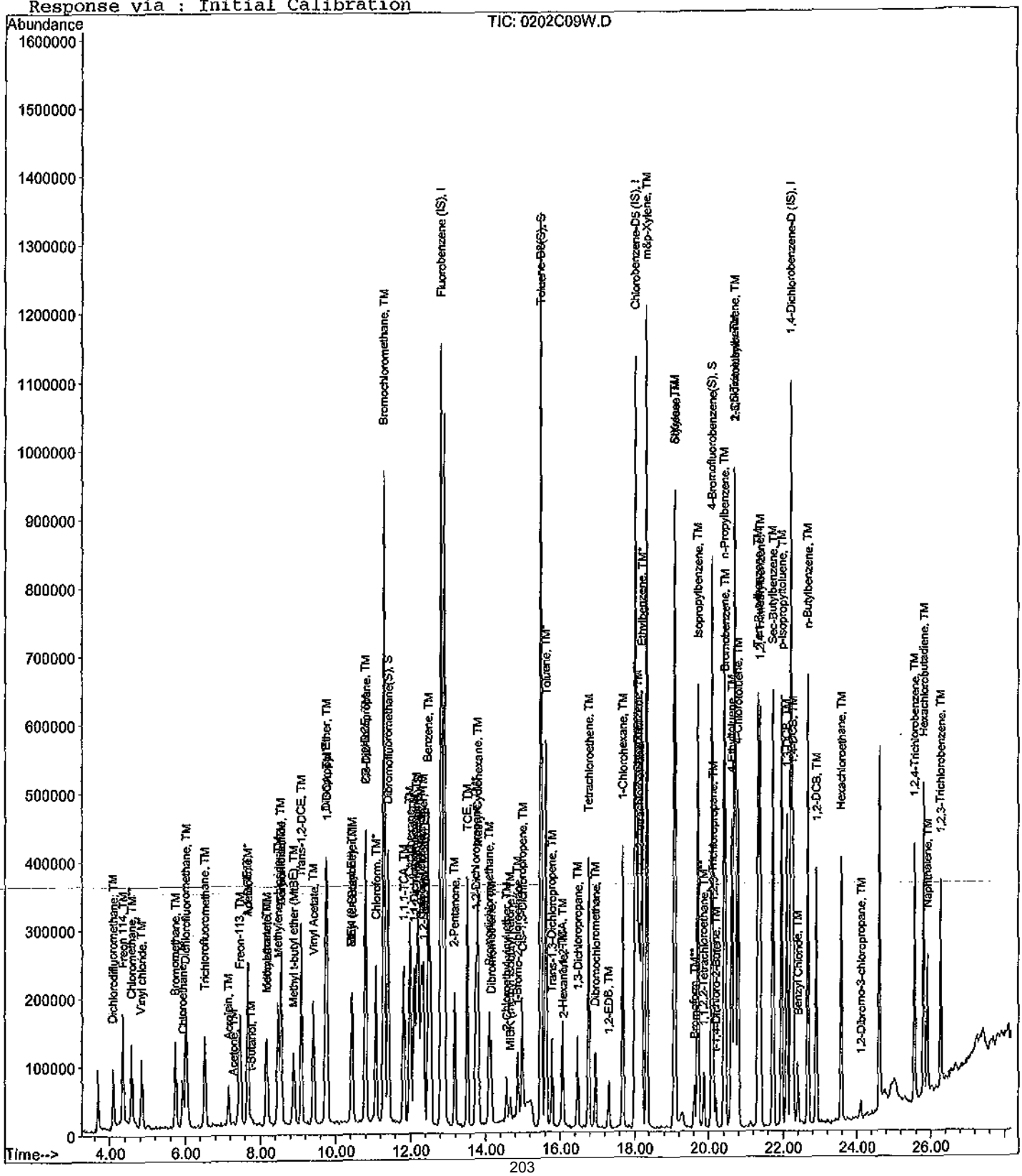
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C09W.D Vial: 1
Acq On : 2 Feb 12 19:45 Operator: RS, ARS
Sample : Vol Std 02-02-12@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C10W.D Vial: 1
Acq On : 2 Feb 12 20:22 Operator: RS, ARS
Sample : Vol Std 02-02-12@40ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	600326	25.00000	ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	422912	25.00000	ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	228736	25.00000	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	11.40	111	1290303	79.60092	ppb		0.00
Spiked Amount 22.441			Recovery = 354.707%				
37) 1,2-DCA-D4(S)	12.20	65	891975	77.97443	ppb		0.00
Spiked Amount 21.710			Recovery = 359.162%				
55) Toluene-D8(S)	15.48	98	4728580	74.88586	ppb		0.00
Spiked Amount 24.025			Recovery = 311.706%				
63) 4-Bromofluorobenzene(S)	20.07	95	1574743	74.67534	ppb		0.00
Spiked Amount 25.909			Recovery = 288.216%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.08	85	881891	45.59778	ppb		96
3) Freon 114	4.33	85	556212	40.79412	ppb		93
4) Chloromethane	4.56	50	307510	37.21723	ppb		98
5) Vinyl chloride	4.82	62	201472	33.78008	ppb		95
6) Bromomethane	5.73	94	201920	42.72515	ppb		99
7) Chloroethane	5.92	64	147215	41.20271	ppb		97
8) Dichlorofluoromethane	6.01	67	1477836	39.73545	ppb		100
9) Trichlorofluoromethane	6.52	103	190272	39.79279	ppb		96
10) Acetonitrile	7.64	41	89495	176.99580	ug/l		100
11) Acrolein	7.15	56	134552	173.29312	ppb		94
12) Acetone	7.27	43	41892	40.04799	ppb	#	76
13) Freon-113	7.45	101	639681	40.75136	ppb		92
14) 1,1-DCE	7.66	96	673858	38.01166	ppb		95
15) t-Butanol	7.75	59	8790	180.69185	ppb	#	93
16) Methyl Acetate	8.17	43	182117	43.26001	ppb		96
17) Iodomethane	8.16	142	1208391	40.59295	ppb		97
18) Acrylonitrile	8.55	53	66518	41.49342	ppb		96
19) Methylene chloride	8.46	84	608098	39.63492	ppb		98
20) Carbon disulfide	8.54	76	748992	40.68284	ppb		97
21) Methyl t-butyl ether (MtBE	8.88	73	886950	39.21859	ppb		95
22) Trans-1,2-DCE	9.08	96	797643	38.76777	ppb		95
23) Diisopropyl Ether	9.73	45	1898090	39.39474	ppb		95
24) 1,1-DCA	9.77	63	1222640	38.83188	ppb		99
25) Vinyl Acetate	9.40	43	113486	39.43175	ppb		93
26) Ethyl tert Butyl Ether	10.43	59	1346271	40.69136	ppb		91
27) MEK (2-Butanone)	10.42	43	53392	41.70140	ppb	#	87
28) Cis-1,2-DCE	10.80	96	787256	42.91171	ppb		96
29) 2,2-Dichloropropane	10.79	77	1004128	38.82740	ppb		95
30) Chloroform	11.07	85	766857	40.19775	ppb		99
31) Bromochloromethane	11.30	128	277404	41.08327	ppb		93
33) 1,1,1-TCA	11.81	97	1110119	41.28994	ppb		95
34) Cyclohexane	11.98	56	1104126	40.09277	ppb		94
35) 1,1-Dichloropropene	12.08	75	911465	39.28157	ppb		99
36) 2,2,4-Trimethylpentane	12.16	57	1724513	39.32985	ppb		98
38) Carbon Tetrachloride	12.28	117	952033	41.79059	ppb		97
39) Tert Amyl Methyl Ether	12.32	73	1025837	37.75571	ppb		98
40) 1,2-DCA	12.35	62	509009	39.54826	ppb		96
41) Benzene	12.48	78	2735602	37.43521	ppb		99
42) TCE	13.51	95	770083	40.60965	ppb		97

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C10W.D Vial: 1
Acq On : 2 Feb 12 20:22 Operator: RS, ARS
Sample : Vol Std 02-02-12@40ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	2-Pentanone	13.18	43	577999	181.98344	ppb	96
44)	1,2-Dichloropropane	13.74	63	601746	36.90781	ppb	98
45)	Bromodichloromethane	14.09	83	720246	42.17546	ppb	99
46)	Methyl Cyclohexane	13.79	83	974706	39.75619	ppb	97
47)	Dibromomethane	14.14	93	268582	42.11891	ppb	90
48)	2-Chloroethyl vinyl ether	14.55	63	176090	40.62300	ppb	90
49)	1-Bromo-2-chloroethane	14.86	63	498114	41.76473	ppb	95
50)	Cis-1,3-Dichloropropene	14.98	75	830679	40.54429	ppb	97
51)	Toluene	15.60	91	2886678	38.96186	ppb	96
52)	Trans-1,3-Dichloropropene	15.78	75	587426	42.00620	ppb	99
53)	1,1,2-TCA	16.05	83	284022	43.18204	ppb	96
56)	1,2-EDB	17.30	107	331477	41.14964	ppb	94
57)	Tetrachloroethene	16.76	164	690869	39.20948	ppb	94
58)	1-Chlorohexane	17.67	91	1032490	39.29438	ppb	94
59)	1,1,1,2-Tetrachloroethane	18.13	131	589888	41.82871	ppb	97
60)	m&p-Xylene	18.32	106	2517225	75.36631	ppb	100
61)	o-Xylene	19.07	106	1232345	39.78290	ppb	99
62)	Styrene	19.09	104	1842254	40.49099	ppb	99
64)	2-Hexanone	16.08	43	113033	40.70830	ppb	90
65)	1,3-Dichloropropane	16.46	76	584179	40.42682	ppb	100
66)	Dibromochloromethane	16.94	129	443099	43.13131	ppb	92
67)	Chlorobenzene	18.07	112	1764947	38.70642	ppb	97
68)	Ethylbenzene	18.19	91	3226186	38.11120	ppb	97
69)	Bromoform	19.61	173	244358	44.58577	ppb	99
71)	MIBK (methyl isobutyl keto	14.65	43	186740	37.74748	ppb	99
72)	Isopropylbenzene	19.70	105	3072485	35.98876	ppb	99
73)	1,1,2,2-Tetrachloroethane	19.86	83	286493	39.14648	ppb	90
74)	1,2,3-Trichloropropane	20.12	110	28264	38.48526	ppb	93
75)	t-1,4-Dichloro-2-Butene	20.19	53	72006	38.45031	ppb	85
76)	Bromobenzene	20.44	156	717532	34.66171	ppb	94
77)	n-Propylbenzene	20.40	91	3769076	36.18819	ppb	99
78)	4-Ethyltoluene	20.61	105	2263956	37.13059	ppb	100
79)	2-Chlorotoluene	20.70	91	2318105	34.64340	ppb	95
80)	1,3,5-Trimethylbenzene	20.68	105	2446383	35.82795	ppb	100
81)	4-Chlorotoluene	20.78	91	2100803	35.99403	ppb	98
82)	Tert-Butylbenzene	21.32	119	2663341	35.95268	ppb	97
83)	1,2,4-Trimethylbenzene	21.38	105	2489889	35.88612	ppb	99
84)	Sec-Butylbenzene	21.72	105	3447509	36.41966	ppb	99
85)	p-Isopropyltoluene	21.95	119	2786503	36.55617	ppb	98
86)	Benzyl Chloride	22.39	91	520078	39.85764	ppb	98
87)	1,3-DCB	22.09	146	1421292	35.93354	ppb	99
88)	1,4-DCB	22.26	146	1341979	36.49882	ppb	99
89)	Hexachloroethane	23.57	117	659628	39.87697	ppb	92
90)	n-Butylbenzene	22.67	91	2460255	36.58233	ppb	96
91)	1,2-DCB	22.89	146	1163915	36.52518	ppb	96
92)	1,2-Dibromo-3-chloropropan	24.11	155	45094	37.08921	ppb	86
93)	1,2,4-Trichlorobenzene	25.55	180	347008	38.02910	ppb	96
94)	Hexachlorobutadiene	25.80	223	390643	38.86238	ppb	90
95)	Naphthalene	25.91	128	1012223	38.66086	ppb	100
96)	1,2,3-Trichlorobenzene	26.26	180	267292	37.94915	ppb	97

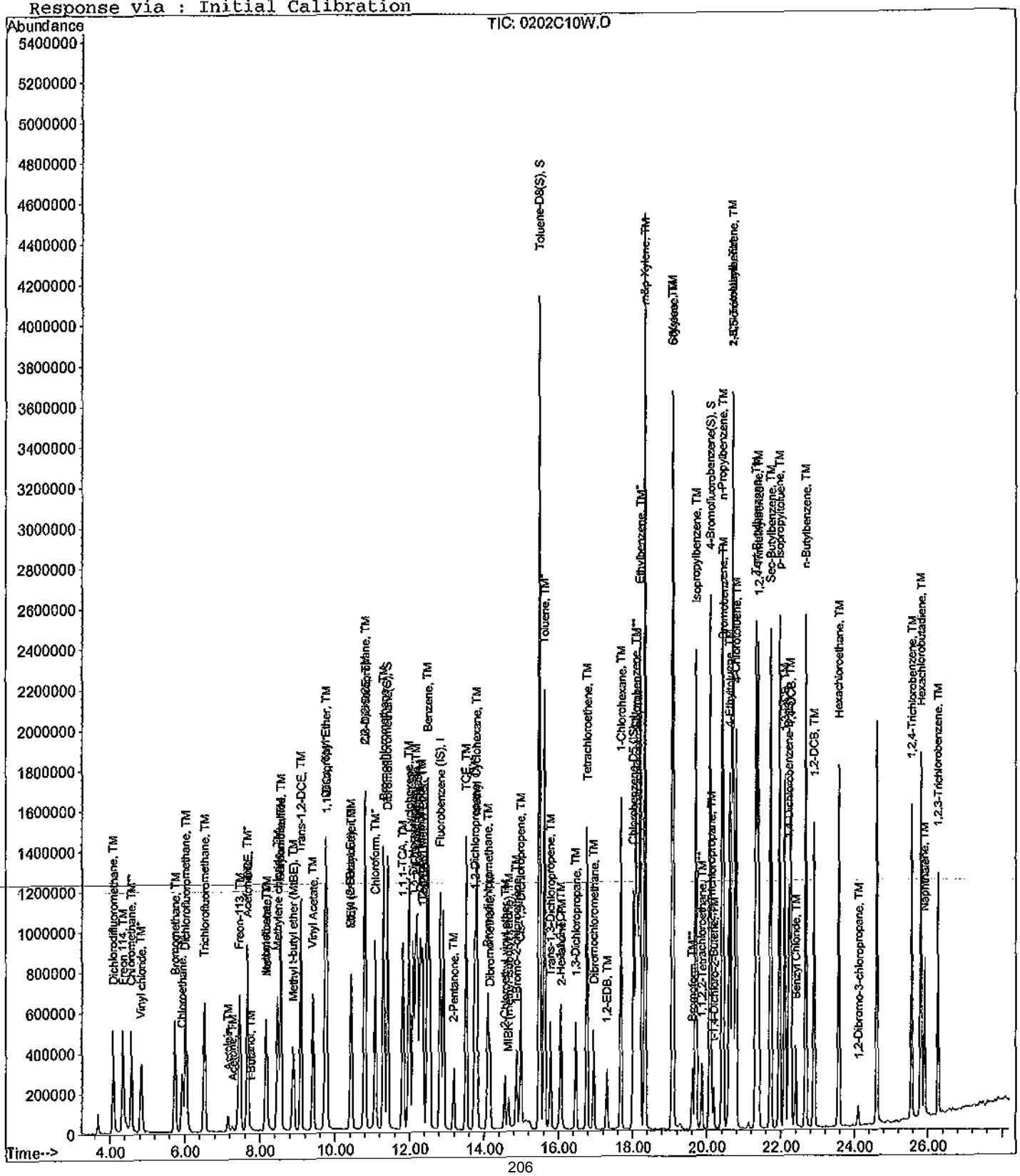
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C10W.D Vial: 1
Acq On : 2 Feb 12 20:22 Operator: RS, ARS
Sample : Vol Std 02-02-12@40ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C11W.D Vial: 1
Acq On : 2 Feb 12 20:59 Operator: RS, ARS
Sample : Vol Std 02-02-12@100ug/L Inst : Chico
Misc : Water 10mLW/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	96	657870	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	18.01	117	478080	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	239552	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.40	111	1747745	98.39013 ppb	0.00
Spiked Amount 22.441			Recovery	= 438.432%	
37) 1,2-DCA-D4(S)	12.20	65	1169913	93.32546 ppb	0.00
Spiked Amount 21.710			Recovery	= 429.871%	
55) Toluene-D8(S)	15.47	98	6480324	90.78523 ppb	0.00
Spiked Amount 24.025			Recovery	= 377.884%	
63) 4-Bromofluorobenzene(S)	20.08	95	2167301	90.91514 ppb	0.00
Spiked Amount 25.909			Recovery	= 350.896%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.08	85	2245269	105.93617 ppb	95
3) Freon 114	4.34	85	1451213	97.12599 ppb	95
4) Chloromethane	4.56	50	902430	99.66563 ppb	98
5) Vinyl chloride	4.80	62	407040	62.27736 ppb	95
6) Bromomethane	5.73	94	507072	97.90863 ppb	98
7) Chloroethane	5.91	64	385593	99.51686 ppb	97
8) Dichlorofluoromethane	6.01	67	3791234	93.02069 ppb	97
9) Trichlorofluoromethane	6.51	103	502848	95.96509 ppb	98
10) Acetonitrile	7.65	41	105634	190.64042 ug/l	100
11) Acrolein	7.15	56	169504	199.21323 ppb	96
12) Acetone	7.26	43	115006	103.64341 ppb	90
13) Freon-113	7.45	101	1722496	100.13455 ppb	93
14) 1,1-DCE	7.67	96	1807525	93.04217 ppb	93
15) t-Butanol	7.76	59	10285	192.93057 ppb	97
16) Methyl Acetate	8.17	43	468276	103.82758 ppb	98
17) Iodomethane	8.16	142	3394614	104.81511 ppb	98
18) Acrylonitrile	8.55	53	172672	98.28992 ppb	99
19) Methylene chloride	8.46	84	1603386	95.36512 ppb	100
20) Carbon disulfide	8.55	76	1733120	85.90328 ppb	96
21) Methyl t-butyl ether (MtBE	8.88	73	2292236	92.49095 ppb	97
22) Trans-1,2-DCE	9.08	96	2109700	93.56858 ppb	95
23) Diisopropyl Ether	9.74	45	4953389	93.81471 ppb	100
24) 1,1-DCA	9.77	63	3171146	91.90796 ppb	100
25) Vinyl Acetate	9.41	43	314266	100.19712 ppb	90
26) Ethyl tert Butyl Ether	10.42	59	3459200	95.40967 ppb	92
27) MEK (2-Butanone)	10.41	43	131716	93.87718 ppb	92
28) Cis-1,2-DCE	10.79	96	2053346	104.95243 ppb	95
29) 2,2-Dichloropropane	10.79	77	2555044	90.15602 ppb	92
30) Chloroform	11.07	85	2004274	95.87194 ppb	98
31) Bromochloromethane	11.29	128	732066	98.93493 ppb	96
33) 1,1,1-TCA	11.81	97	2906994	98.66563 ppb	96
34) Cyclohexane	11.98	56	3021600	100.12244 ppb	99
35) 1,1-Dichloropropene	12.09	75	2455165	96.55542 ppb	99
36) 2,2,4-Trimethylpentane	12.15	57	4895375	101.87997 ppb	99
38) Carbon Tetrachloride	12.27	117	2556502	102.40466 ppb	100
39) Tert Amyl Methyl Ether	12.33	73	2696791	90.57298 ppb	97
40) 1,2-DCA	12.36	62	1309537	92.84675 ppb	96
41) Benzene	12.47	78	7346068	91.73380 ppb	99
42) TCE	13.51	95	2028472	97.61303 ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C11W.D Vial: 1
Acq On : 2 Feb 12 20:59 Operator: RS, ARS
Sample : Vol Std 02-02-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43) 2-Pentanone	13.18	43	701119	201.43901	ppb		96
44) 1,2-Dichloropropane	13.74	63	1601596	89.64068	ppb		98
45) Bromodichloromethane	14.09	83	1915494	102.35447	ppb		98
46) Methyl Cyclohexane	13.79	83	2691755	100.18754	ppb		96
47) Dibromomethane	14.15	93	709494	101.53039	ppb		96
48) 2-Chloroethyl vinyl ether	14.54	63	465372	97.96808	ppb		98
49) 1-Bromo-2-chloroethane	14.85	63	1309488	100.19120	ppb		94
50) Cis-1,3-Dichloropropene	14.98	75	2204762	98.19858	ppb		100
51) Toluene	15.61	91	7642171	94.12503	ppb		95
52) Trans-1,3-Dichloropropene	15.77	75	1558009	101.66635	ppb		99
53) 1,1,2-TCA	16.05	83	719202	99.78130	ppb		96
56) 1,2-EDB	17.30	107	873179	95.88824	ppb	#	96
57) Tetrachloroethene	16.76	164	1856721	93.21623	ppb		94
58) 1-Chlorohexane	17.68	91	2794224	94.07090	ppb		94
59) 1,1,1,2-Tetrachloroethane	18.12	131	1576581	98.89417	ppb		100
60) m&p-Xylene	18.33	106	6710939	177.74114	ppb		98
61) o-Xylene	19.07	106	3232108	92.29951	ppb		95
62) Styrene	19.09	104	4851481	94.32626	ppb		99
64) 2-Hexanone	16.07	43	305043	97.18253	ppb		93
65) 1,3-Dichloropropane	16.47	76	1520829	93.10082	ppb		97
66) Dibromochloromethane	16.94	129	1231333	106.02709	ppb		92
67) Chlorobenzene	18.07	112	4723822	91.64195	ppb		97
68) Ethylbenzene	18.18	91	8760509	91.54655	ppb		98
69) Bromoform	19.60	173	696679	112.44803	ppb		100
71) MIBK (methyl isobutyl keto	14.64	43	520583	100.08157	ppb		99
72) Isopropylbenzene	19.70	105	8263159	92.41828	ppb		99
73) 1,1,2,2-Tetrachloroethane	19.86	83	784392	102.34027	ppb		94
74) 1,2,3-Trichloropropane	20.12	110	75144	97.63194	ppb		99
75) t-1,4-Dichloro-2-Butene	20.19	53	189221	96.47955	ppb		89
76) Bromobenzene	20.44	156	1901056	87.68764	ppb		92
77) n-Propylbenzene	20.41	91	9991825	91.60337	ppb		99
78) 4-Ethyltoluene	20.61	105	5777141	90.47146	ppb		100
79) 2-Chlorotoluene	20.71	91	6241679	89.06837	ppb		94
80) 1,3,5-Trimethylbenzene	20.68	105	6704899	93.76148	ppb		99
81) 4-Chlorotoluene	20.78	91	5447811	89.12548	ppb		97
82) Tert-Butylbenzene	21.32	119	6979393	89.96153	ppb		96
83) 1,2,4-Trimethylbenzene	21.38	105	6660345	91.65959	ppb		96
84) Sec-Butylbenzene	21.72	105	9218411	92.98680	ppb		98
85) p-Isopropyltoluene	21.95	119	7490835	93.83527	ppb		98
86) Benzyl Chloride	22.39	91	1385079	101.35667	ppb		96
87) 1,3-DCB	22.09	146	3701371	89.35401	ppb		99
88) 1,4-DCB	22.26	146	3501109	90.92293	ppb		99
89) Hexachloroethane	23.56	117	1742529	99.62681	ppb		94
90) n-Butylbenzene	22.66	91	6546283	92.94386	ppb		97
91) 1,2-DCB	22.89	146	2968881	88.96079	ppb		95
92) 1,2-Dibromo-3-chloropropan	24.10	155	118411	92.99415	ppb		88
93) 1,2,4-Trichlorobenzene	25.55	180	892726	93.41777	ppb		96
94) Hexachlorobutadiene	25.80	223	1043236	99.32109	ppb		92
95) Naphthalene	25.90	128	2533556	92.39757	ppb		98
96) 1,2,3-Trichlorobenzene	26.26	180	645334	87.48537	ppb		96

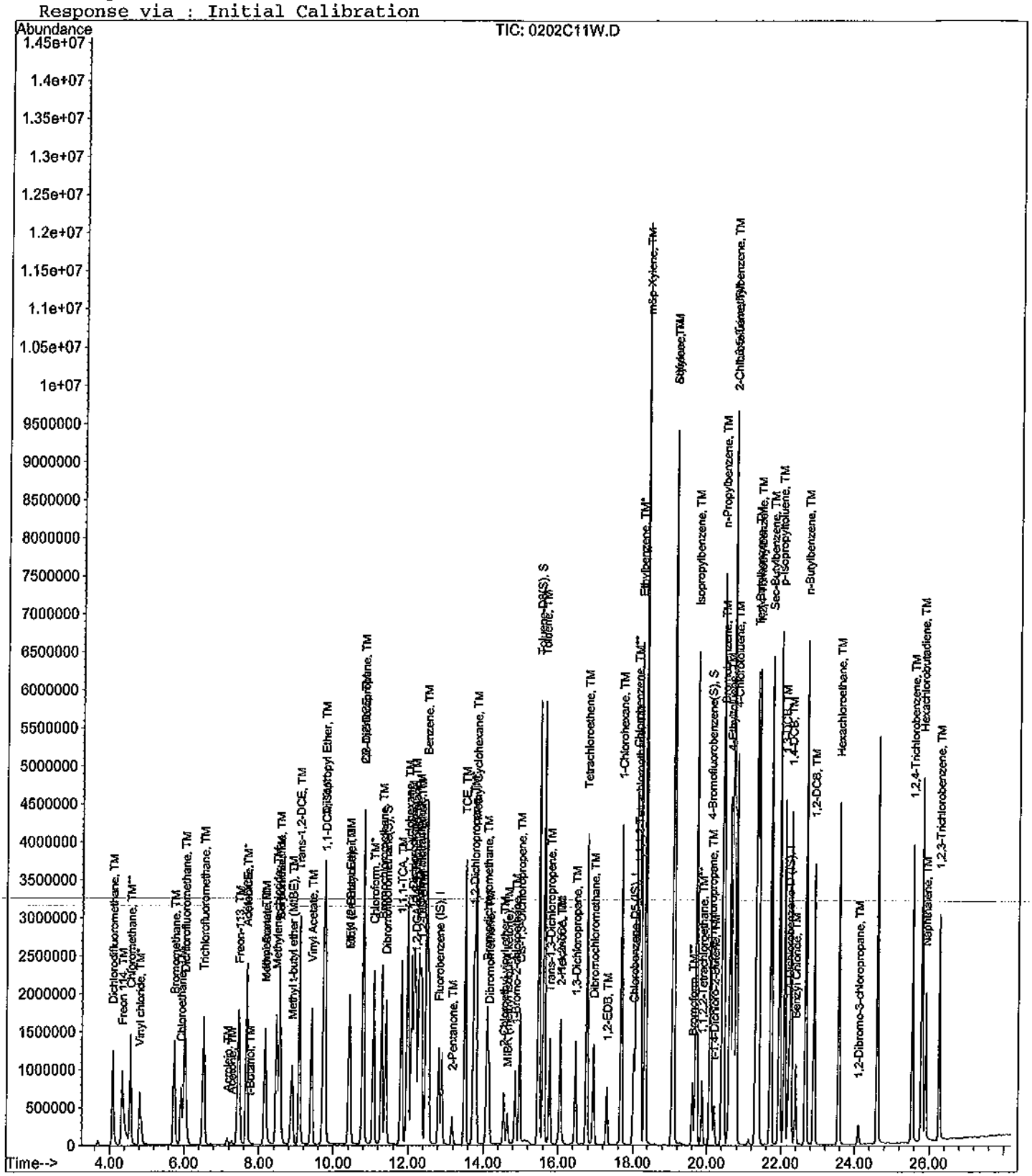
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C11W.D Vial: 1
Acq On : 2 Feb 12 20:59 Operator: RS, ARS
Sample : Vol Std 02-02-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C12W.D Vial: 1
Acq On : 2 Feb 12 21:36 Operator: RS, ARS
Sample : Vol Std 02-02-12@200ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	697741	25.00000	ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	464128	25.00000	ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	230272	25.00000	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	11.40	111	2153919	114.32696	ppb		0.00
Spiked Amount 22.441			Recovery = 509.448%				
37) 1,2-DCA-D4(S)	12.20	65	1418036	106.65462	ppb		0.00
Spiked Amount 21.710			Recovery = 491.271%				
55) Toluene-D8(S)	15.48	98	7973006	115.05444	ppb		0.00
Spiked Amount 24.025			Recovery = 478.902%				
63) 4-Bromofluorobenzene(S)	20.07	95	2601684	112.41760	ppb		0.00
Spiked Amount 25.909			Recovery = 433.889%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.08	85	4290839	190.88154	ppb		97
3) Freon 114	4.34	85	2794769	176.35836	ppb		90
4) Chloromethane	4.57	50	1723698	179.48944	ppb		97
5) Vinyl chloride	4.80	62	993536	143.32519	ppb		93
6) Bromomethane	5.73	94	978240	178.09126	ppb		96
7) Chloroethane	5.91	64	736798	179.89002	ppb		98
8) Dichlorofluoromethane	6.01	67	7535970	174.33476	ppb		98
9) Trichlorofluoromethane	6.51	103	922688	166.02644	ppb		99
10) Acetonitrile	7.64	41	117415	199.79319	ug/l		100
11) Acrolein	7.15	56	188342	208.70423	ppb		95
12) Acetone	7.27	43	230943	198.20134	ppb		90
13) Freon-113	7.45	101	3313489	181.61725	ppb		93
14) 1,1-DCE	7.67	96	3617580	175.57371	ppb		89
15) t-Butanol	7.66	59	48144	851.50022	ppb	#	80
16) Methyl Acetate	8.17	43	937533	197.52588	ppb		98
17) Iodomethane	8.16	142	6770619	197.53528	ppb		99
18) Acrylonitrile	8.55	53	349104	187.36469	ppb		98
19) Methylene chloride	8.46	84	3183435	178.52264	ppb		99
20) Carbon disulfide	8.55	76	3213312	150.16885	ppb		96
21) Methyl t-butyl ether (MtBE	8.88	73	4548335	173.03668	ppb		97
22) Trans-1,2-DCE	9.08	96	4196346	175.47953	ppb		93
23) Diisopropyl Ether	9.73	45	9619548	171.77859	ppb		98
24) 1,1-DCA	9.77	63	6280311	171.61841	ppb		99
25) Vinyl Acetate	9.40	43	581998	175.22511	ppb		91
26) Ethyl tert Butyl Ether	10.42	59	6727759	174.95767	ppb		94
27) MEK (2-Butanone)	10.41	43	247626	166.40394	ppb		95
28) Cis-1,2-DCE	10.80	96	4051522	197.00876	ppb		94
29) 2,2-Dichloropropane	10.79	77	5073622	168.79527	ppb		94
30) Chloroform	11.07	85	4014379	181.05004	ppb		96
31) Bromochloromethane	11.30	128	1408392	179.46047	ppb		93
33) 1,1,1-TCA	11.81	97	5709137	182.69979	ppb		96
34) Cyclohexane	11.98	56	5940782	185.60254	ppb		98
35) 1,1-Dichloropropene	12.08	75	4861151	180.25234	ppb		99
36) 2,2,4-Trimethylpentane	12.16	57	9666522	189.67886	ppb		99
38) Carbon Tetrachloride	12.28	117	5078945	191.81958	ppb		97
39) Tert Amyl Methyl Ether	12.32	73	5208252	164.92602	ppb		96
40) 1,2-DCA	12.35	62	2558043	171.00257	ppb		93
41) Benzene	12.48	78	14763160	173.81994	ppb		98
42) TCE	13.51	95	3937074	178.63155	ppb		96

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C12W.D Vial: 1
Acq On : 2 Feb 12 21:36 Operator: RS, ARS
Sample : Vol Std 02-02-12@200ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Pentanone	13.18	43	793557	214.96899 ppb		98
44)	1,2-Dichloropropane	13.74	63	3124868	164.90342 ppb		97
45)	Bromodichloromethane	14.09	83	3811139	192.01124 ppb		98
46)	Methyl Cyclohexane	13.80	83	5303181	186.10605 ppb		94
47)	Dibromomethane	14.14	93	1388413	187.33194 ppb		93
48)	2-Chloroethyl vinyl ether	14.55	63	938450	186.26932 ppb		96
49)	1-Bromo-2-chloroethane	14.86	63	2593808	187.11634 ppb		94
50)	Cis-1,3-Dichloropropene	14.98	75	4362015	183.17934 ppb		99
51)	Toluene	15.60	91	15083848	175.16460 ppb		94
52)	Trans-1,3-Dichloropropene	15.77	75	3053967	187.89596 ppb		97
53)	1,1,2-TCA	16.05	83	1395122	182.49723 ppb		97
56)	1,2-EDB	17.30	107	1715529	194.05414 ppb	#	98
57)	Tetrachloroethene	16.76	164	3672670	189.92825 ppb		94
58)	1-Chlorohexane	17.67	91	5473378	189.80704 ppb		94
59)	1,1,1,2-Tetrachloroethane	18.13	131	3113047	201.14205 ppb		100
60)	m&p-Xylene	18.32	106	15622713	426.21028 ppb	#	44
61)	o-Xylene	19.07	106	6286185	184.91133 ppb		96
62)	Styrene	19.09	104	9342030	187.09507 ppb		97
64)	2-Hexanone	16.08	43	612346	200.94945 ppb		94
65)	1,3-Dichloropropane	16.46	76	2950788	186.06896 ppb		97
66)	Dibromochloromethane	16.94	129	2447577	217.09033 ppb		91
67)	Chlorobenzene	18.07	112	9281405	185.47157 ppb		97
68)	Ethylbenzene	18.19	91	17047477	183.49978 ppb		96
69)	Bromoform	19.61	173	1379982	229.43273 ppb		98
71)	MIBK (methyl isobutyl keto	14.65	43	1003199	200.39621 ppb		97
72)	Isopropylbenzene	19.71	105	16198091	188.46655 ppb		98
73)	1,1,2,2-Tetrachloroethane	19.86	83	1526953	207.25152 ppb		92
74)	1,2,3-Trichloropropane	20.12	110	149056	201.42154 ppb		98
75)	t-1,4-Dichloro-2-Butene	20.19	53	369911	196.21032 ppb		86
76)	Bromobenzene	20.44	156	3694606	177.28430 ppb		95
77)	n-Propylbenzene	20.41	91	18882720	180.09011 ppb		96
78)	4-Ethyltoluene	20.61	105	11827149	192.68032 ppb		99
79)	2-Chlorotoluene	20.70	91	11693368	173.58826 ppb		95
80)	1,3,5-Trimethylbenzene	20.68	105	12652372	184.06145 ppb		98
81)	4-Chlorotoluene	20.78	91	10838367	184.46006 ppb		98
82)	Tert-Butylbenzene	21.32	119	13575392	182.03305 ppb		97
83)	1,2,4-Trimethylbenzene	21.38	105	12928197	185.08781 ppb		97
84)	Sec-Butylbenzene	21.72	105	17797308	186.75758 ppb		94
85)	p-Isopropyltoluene	21.96	119	14413429	187.82867 ppb		97
86)	Benzyl Chloride	22.39	91	2625876	199.89901 ppb		97
87)	1,3-DCB	22.09	146	7202836	180.88960 ppb		99
88)	1,4-DCB	22.26	146	6704682	181.13595 ppb		98
89)	Hexachloroethane	23.57	117	3377192	200.22764 ppb		88
90)	n-Butylbenzene	22.67	91	12559014	185.49839 ppb		97
91)	1,2-DCB	22.89	146	5635191	175.66010 ppb		94
92)	1,2-Dibromo-3-chloropropan	24.11	155	239793	195.91097 ppb		98
93)	1,2,4-Trichlorobenzene	25.55	180	1641060	178.64648 ppb		95
94)	Hexachlorobutadiene	25.81	223	2023406	200.54755 ppb		93
95)	Naphthalene	25.91	128	4747245	180.10691 ppb		98
96)	1,2,3-Trichlorobenzene	26.26	180	1258665	177.50872 ppb		95

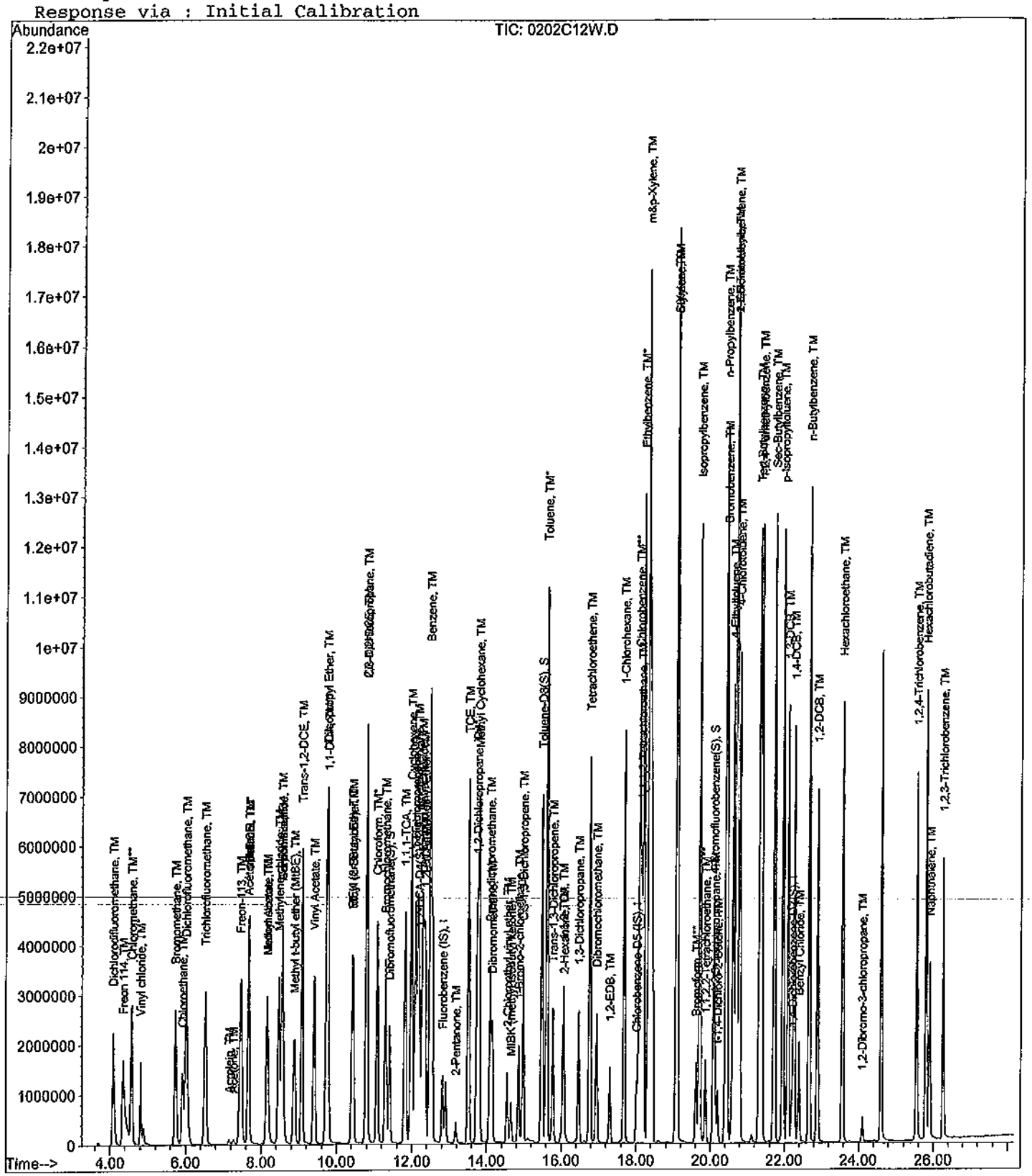
(#) = qualifier out of range (m) = manual integration

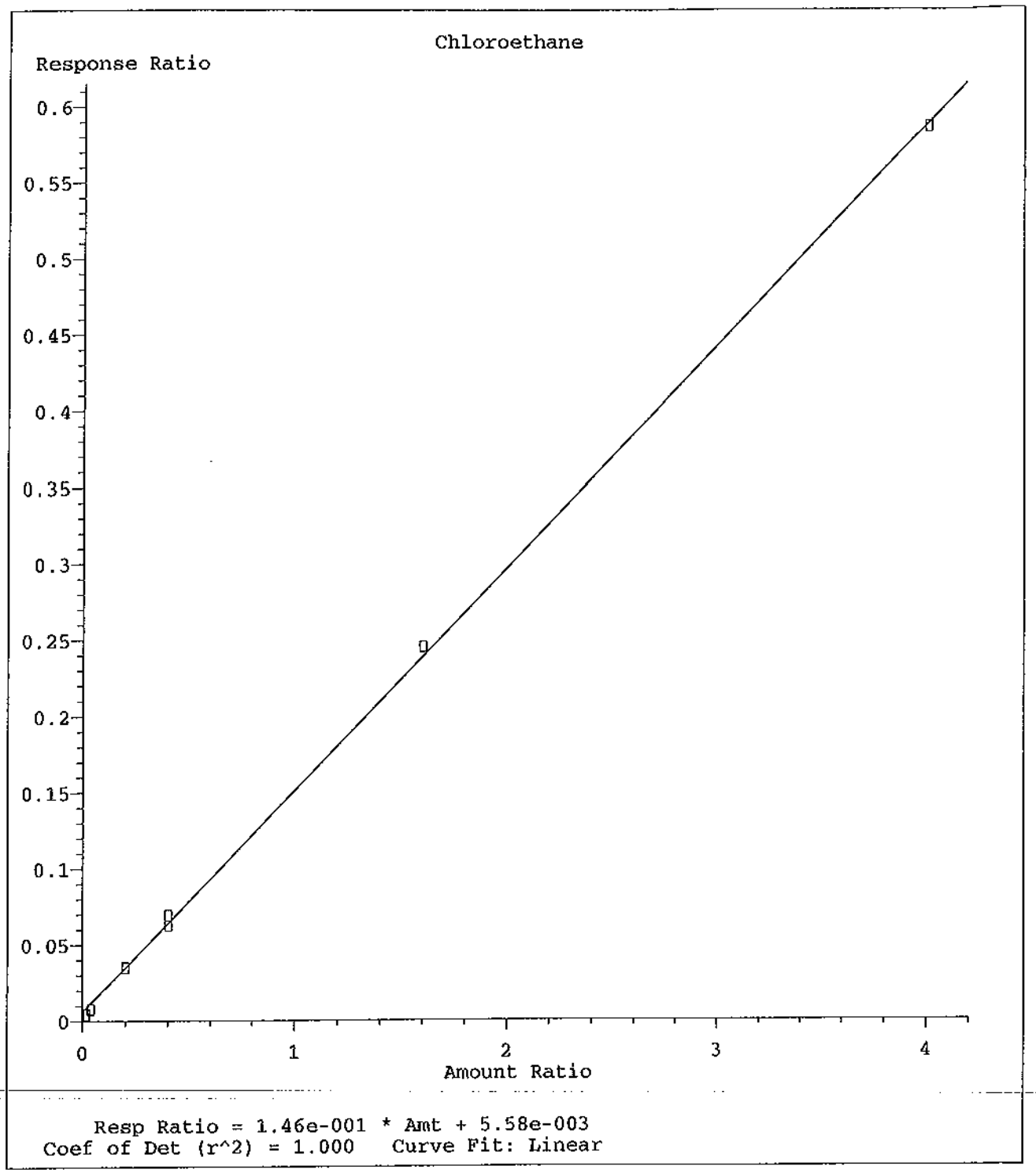
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C12W.D Vial: 1
Acq On : 2 Feb 12 21:36 Operator: RS, ARS
Sample : Vol Std 02-02-12@200ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

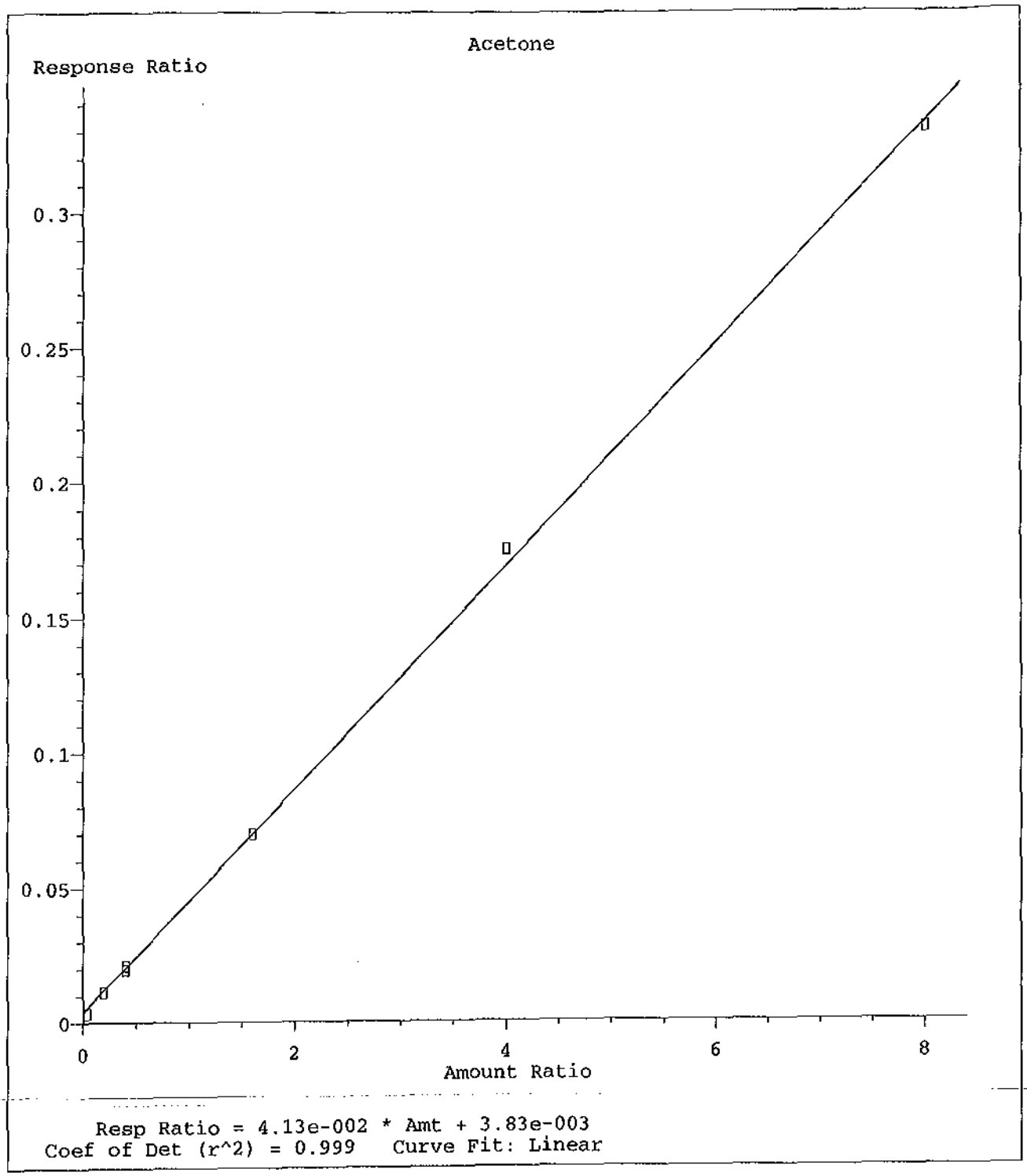
Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration

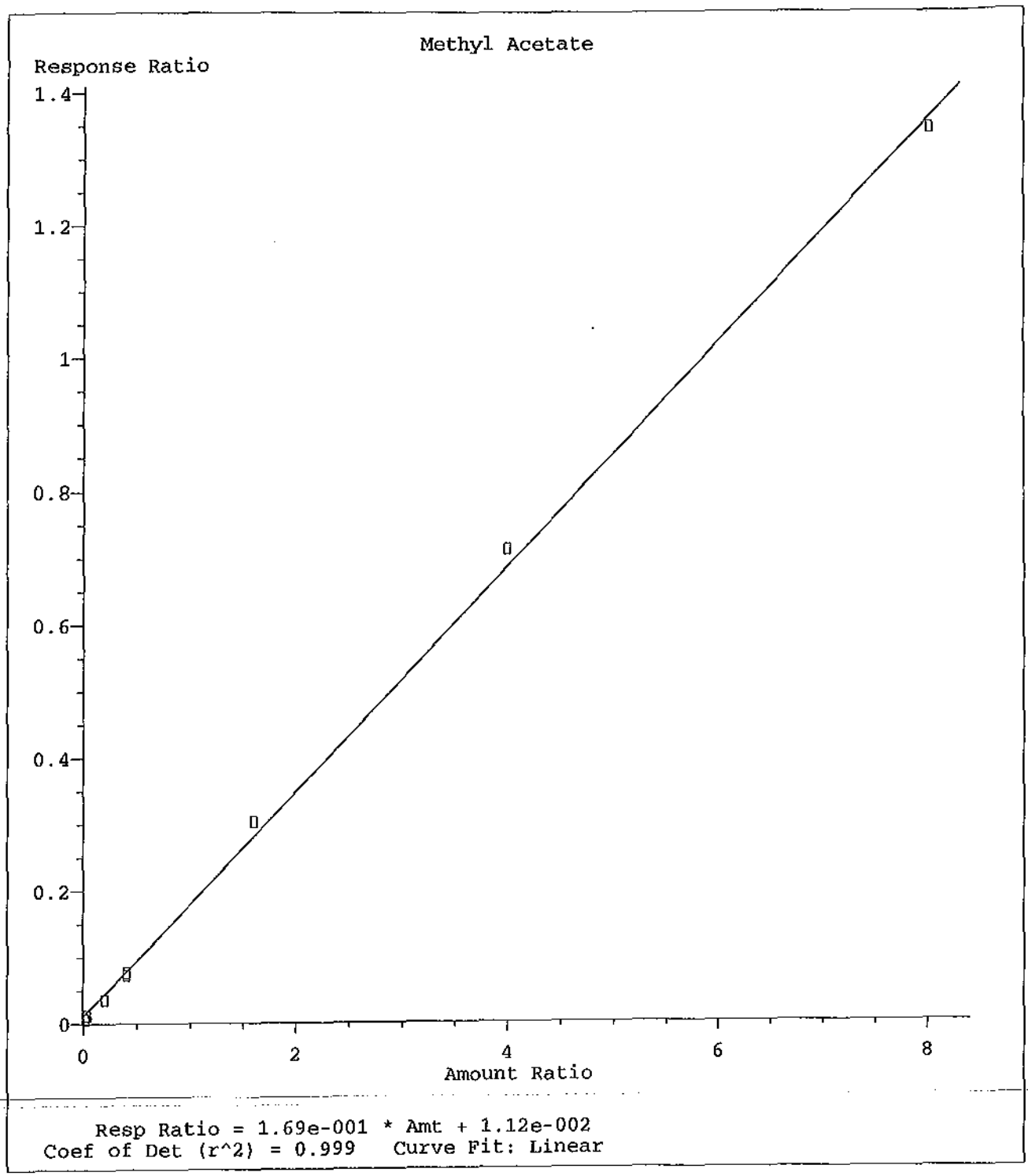




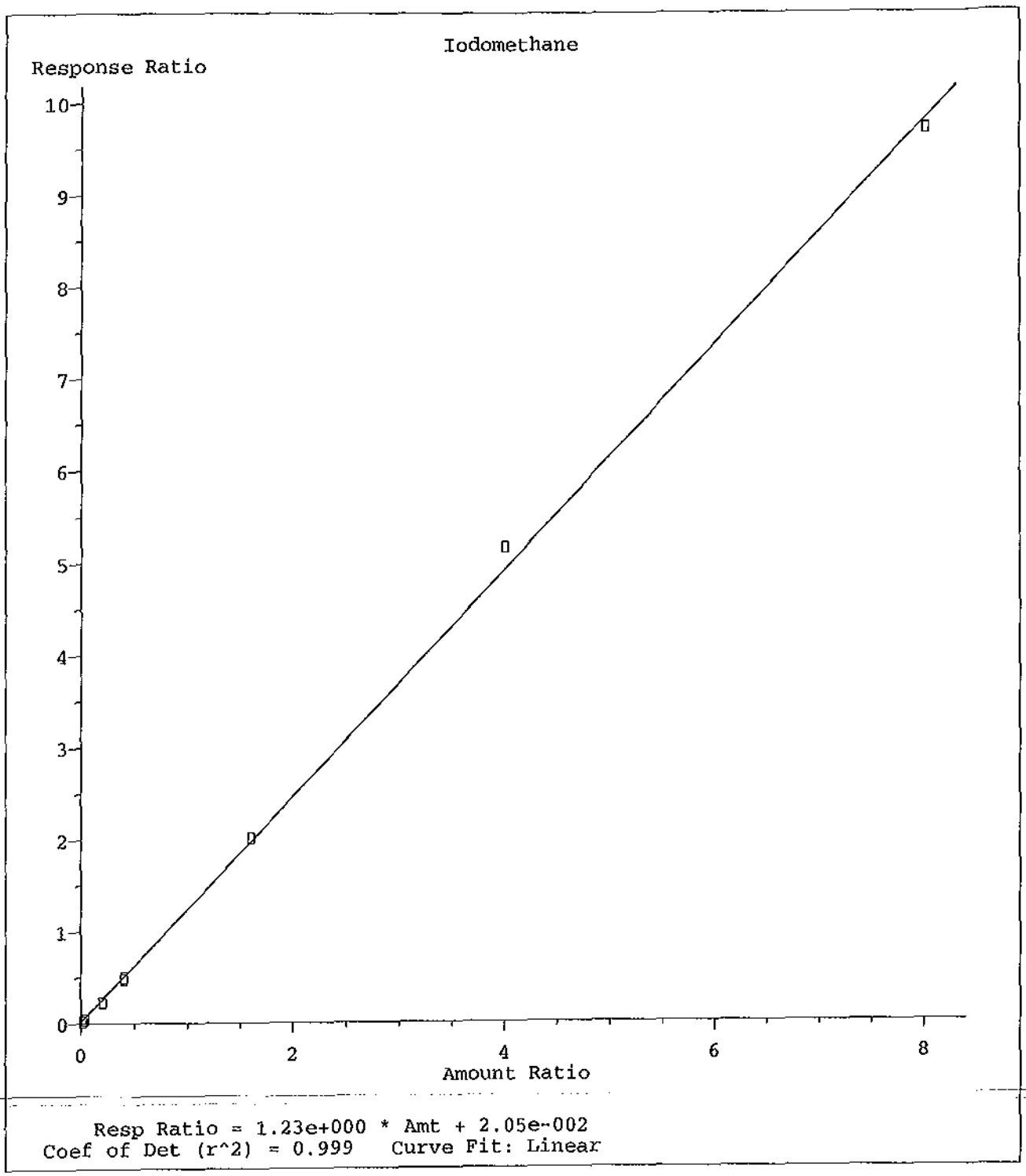
Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



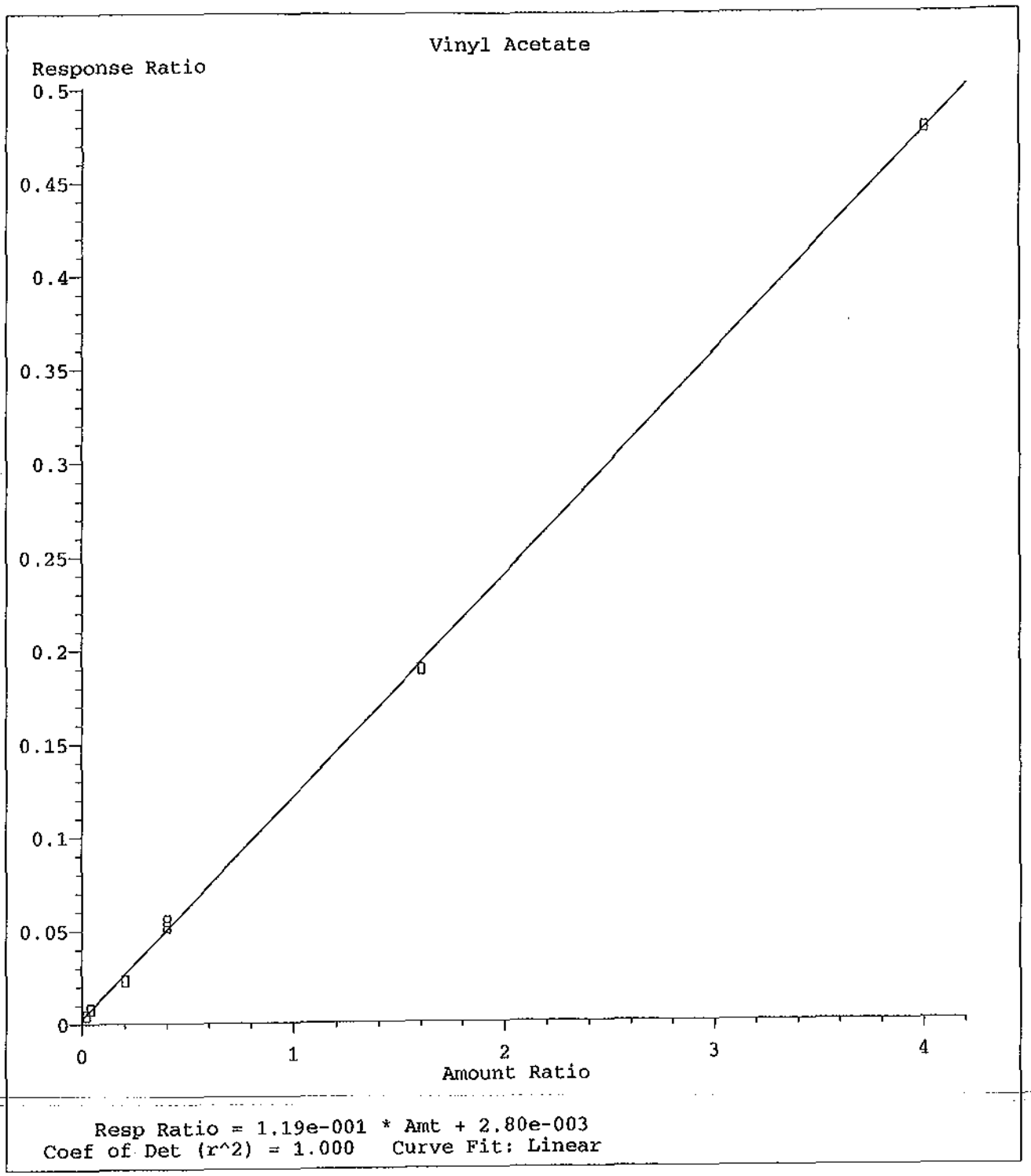
Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



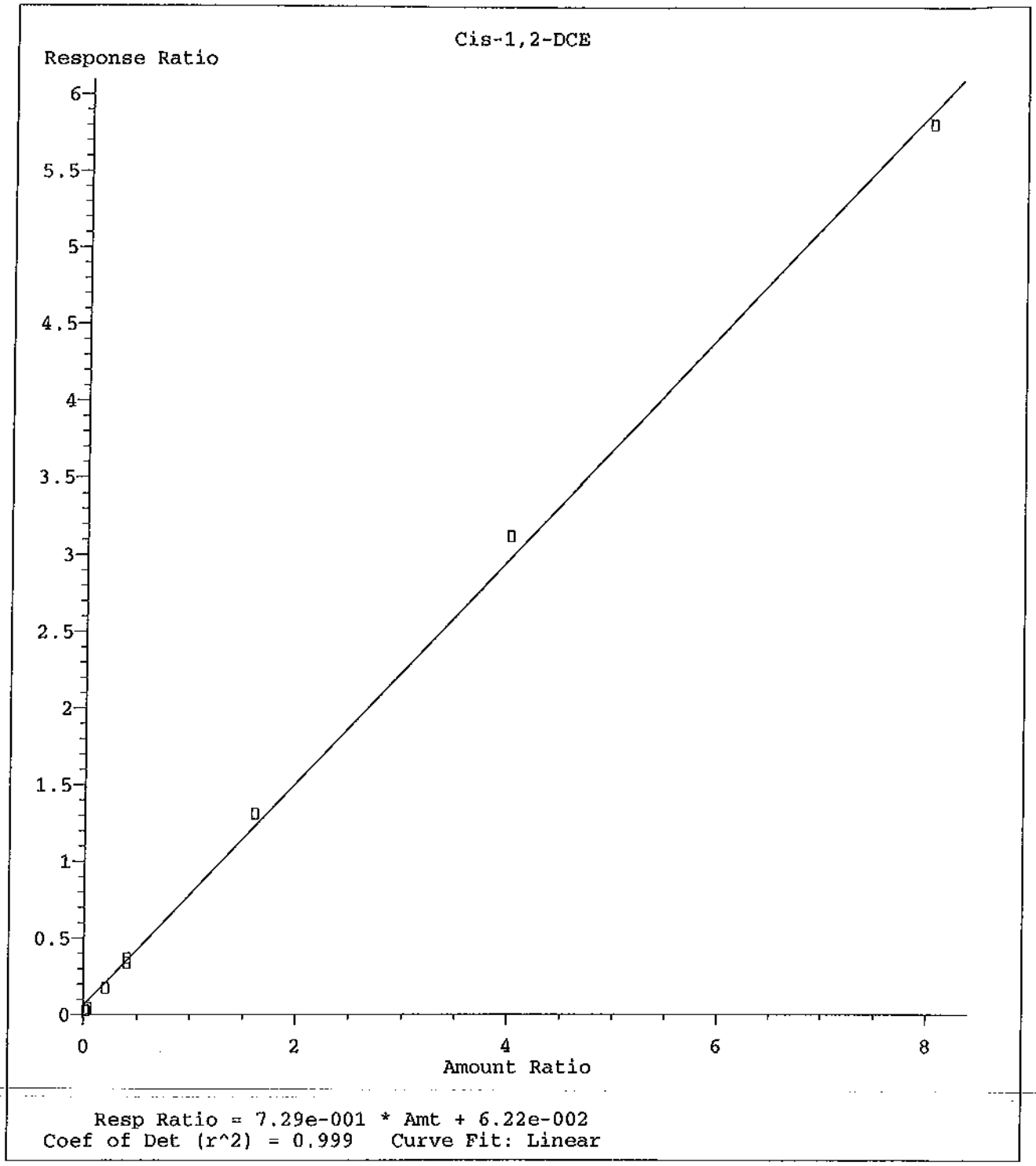
Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



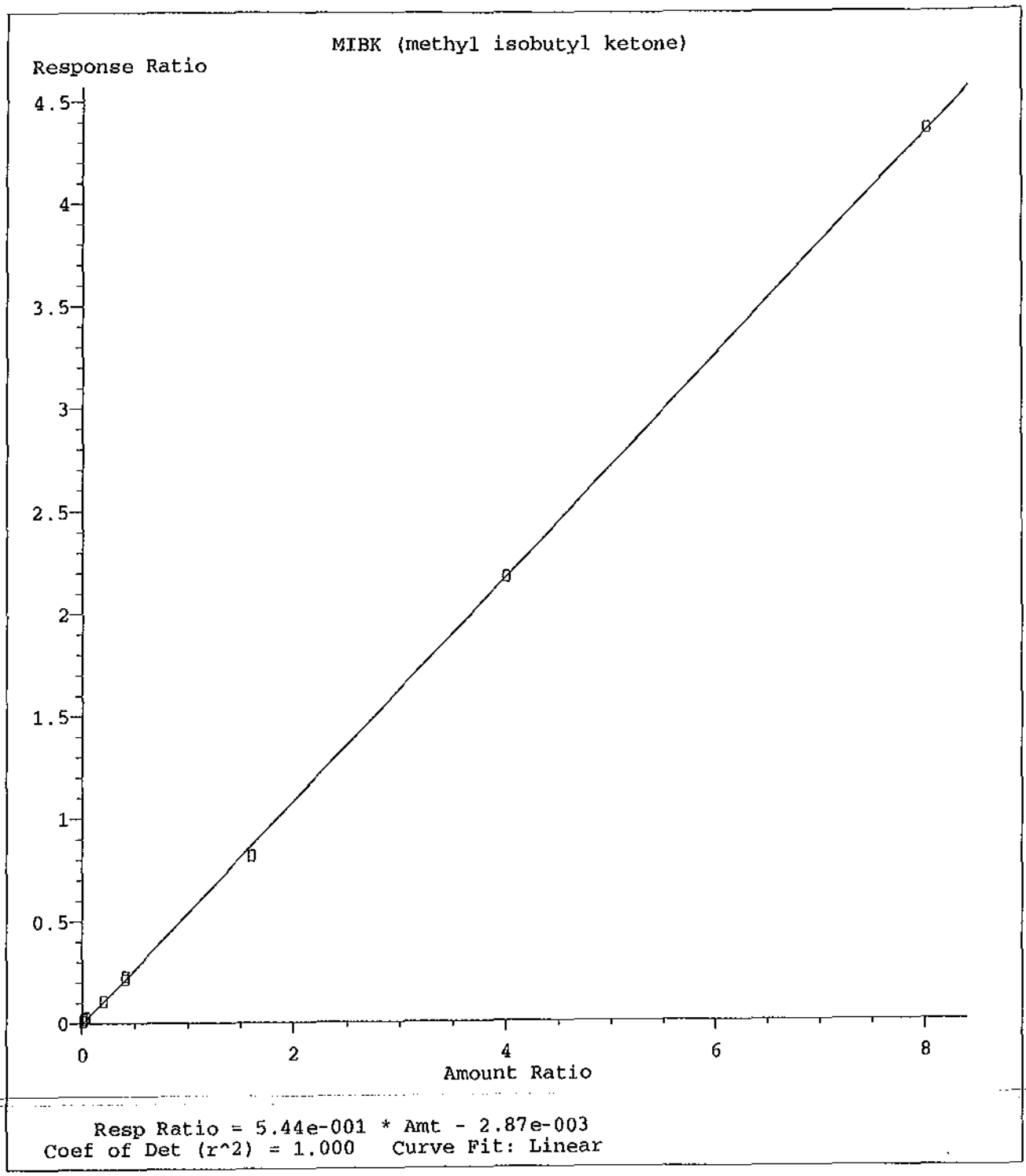
Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



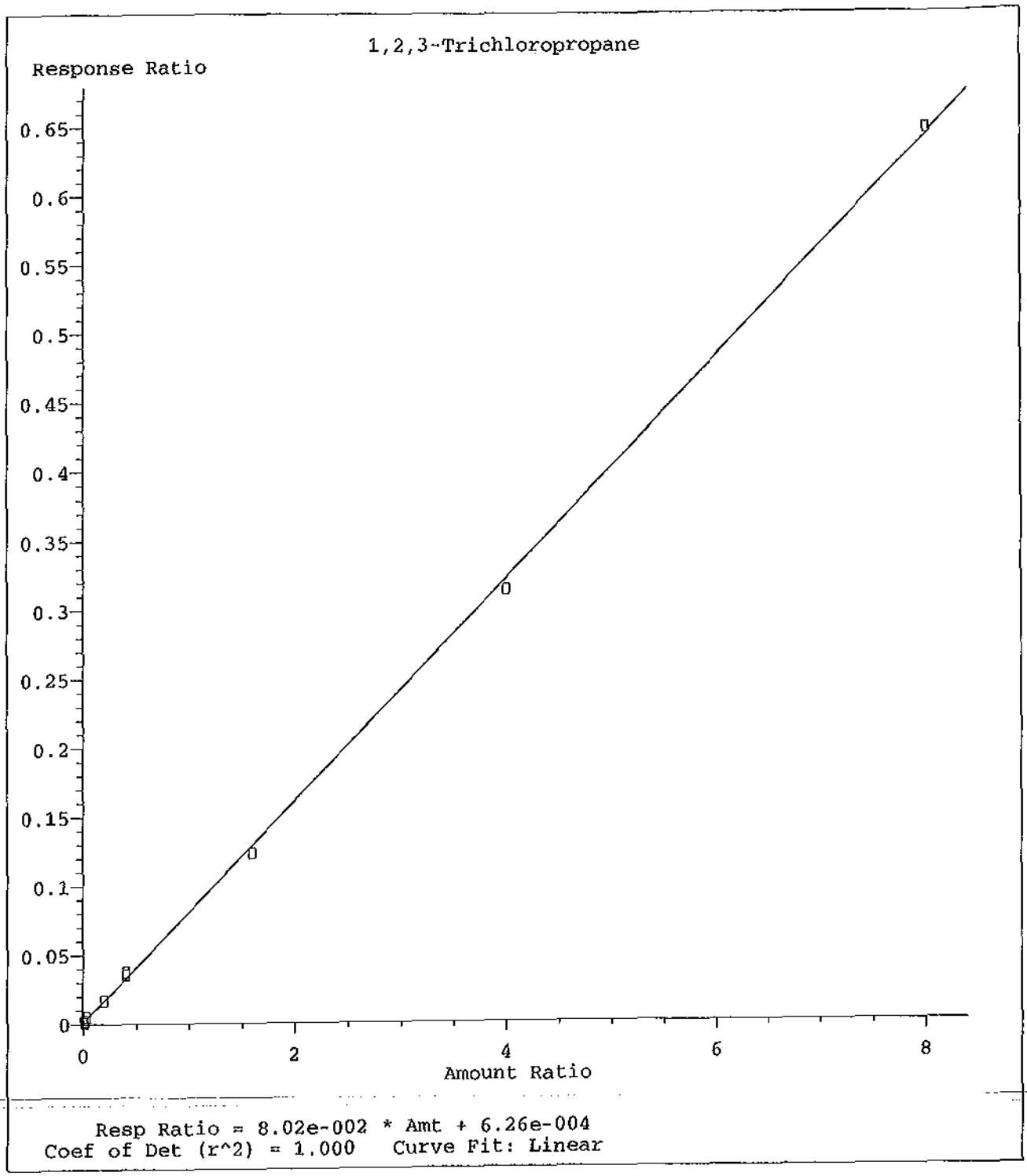
Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



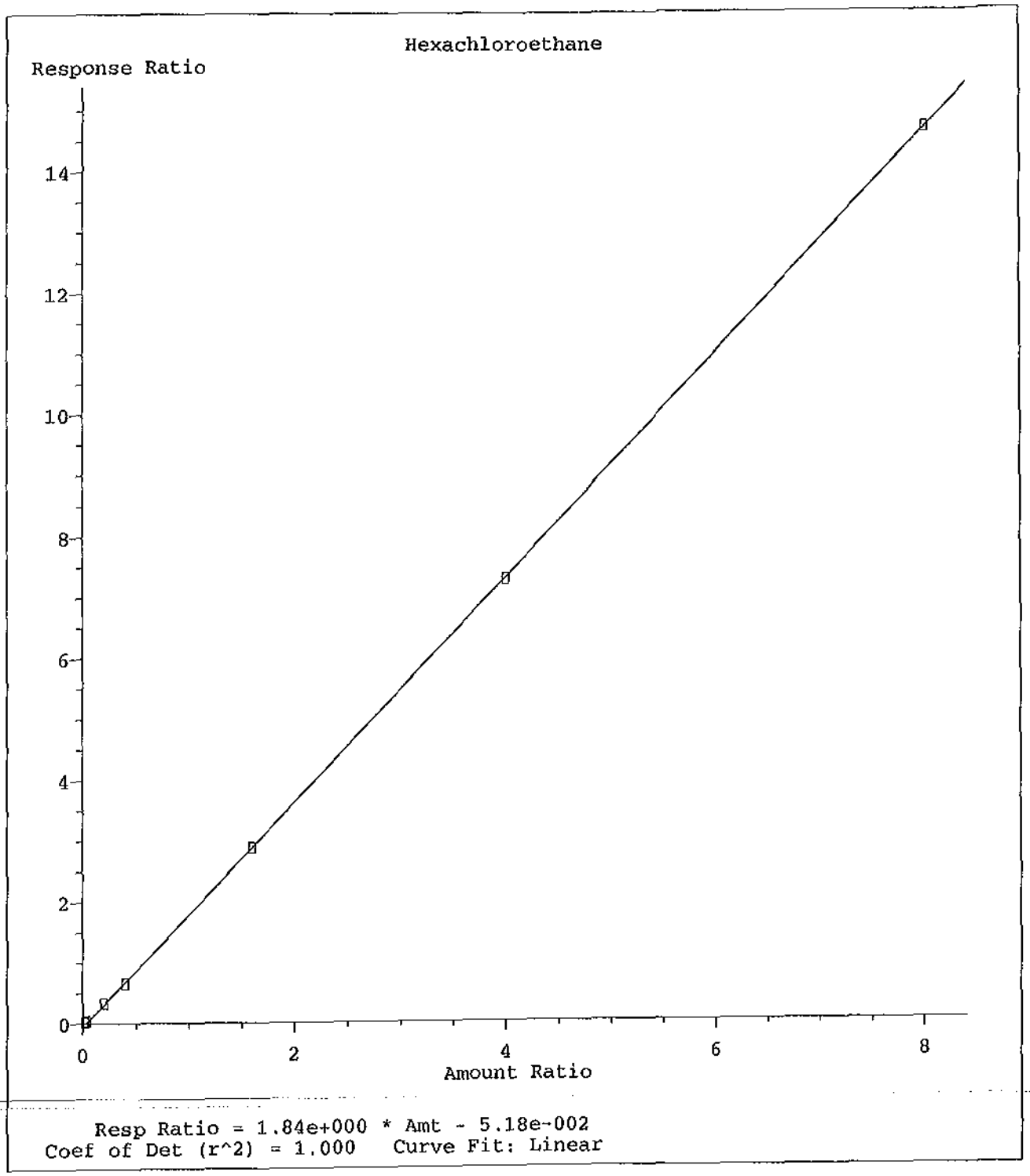
Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



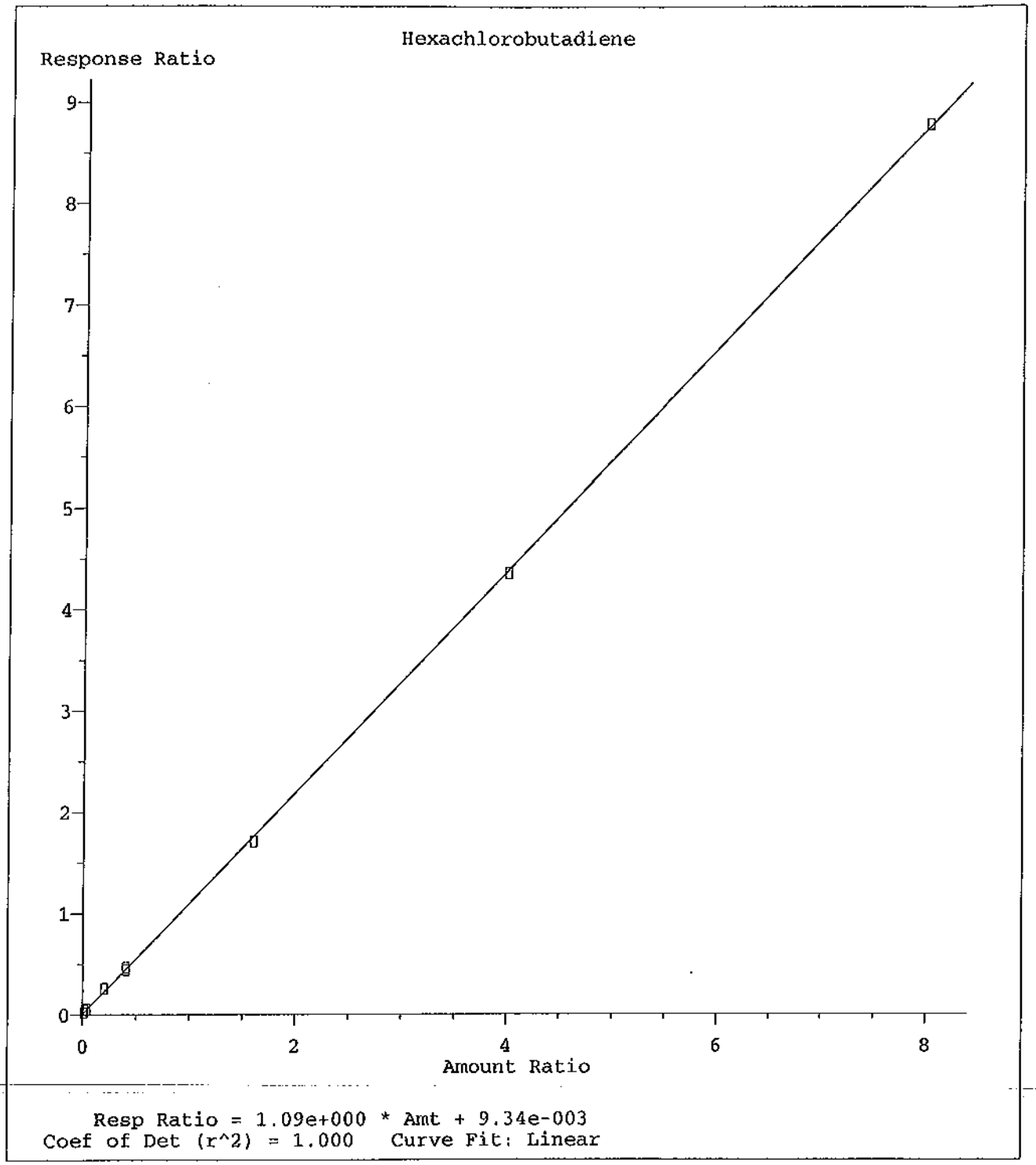
Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66864
Date Analyzed: 3 Feb 12 12:35
Instrument: Chico
Initial Cal. Date: 02/02/12
Data File: 0203C05W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.8054	0.7124	12	TM		
3	TM	Freon 114	0.5678	0.5619	1.0	TM		
4	TM**	Chloromethane	0.3441	0.3657	6.3	TM**		
5	TM*	Vinyl chloride	0.2484	0.2331	6.1	TM*		
6	TM	Bromomethane	0.1968	0.2027	3.0	TM		
7	TML	Chloroethane	0.1738	0.1677	3.5	TML	7.3	
8	TM	Dichlorofluoromethane	1.549	1.640	5.9	TM		
9	TM	Trichlorofluoromethane	0.1991	0.1819	8.6	TM		
10		Acetonitrile	0.0211	0.0276	31			*NT
11	TM	Acrolein	0.0323	0.0363	12	TM		
12	TML	Acetone	0.0531	0.0528	0.47	TML	5.9	
13	TM	Freon-113	0.6537	0.6638	1.5	TM		
14	TM*	1,1-DCE	0.7383	0.7425	0.57	TM*		
15	TM	t-Butanol	0.0020	0.0027	35	TM		*NT
16	TML	Methyl Acetate	0.2162	0.2086	3.5	TML	6.5	
17	TML	Iodomethane	1.117	1.237	11	TML	3.8	
18	TM	Acrylonitrile	0.0668	0.0766	15	TM		
19	TM	Methylene chloride	0.6389	0.7038	10	TM		
20	TM	Carbon disulfide	0.7667	0.8023	4.7	TM		
21	TM	Methyl t-butyl ether (MtBE)	0.9418	1.046	11	TM		
22	TM	Trans-1,2-DCE	0.8568	0.8922	4.1	TM		
23	TM	Diisopropyl Ether	2.006	2.232	11	TM		
24	TM**	1,1-DCA	1.311	1.364	4.0	TM**		
25	TML	Vinyl Acetate	0.1503	0.1177	22	TML	4.5	
26	TM	Ethyl tert Butyl Ether	1.378	1.559	13	TM		
27	TM	MEK (2-Butanone)	0.0533	0.0628	18	TM		
28	TML	Cis-1,2-DCE	0.9225	0.9331	1.2	TML	7.5	
29	TM	2,2-Dichloropropane	1.077	1.180	9.6	TM		
30	TM*	Chloroform	0.7944	0.8500	7.0	TM*		
31	TM	Bromochloromethane	0.2812	0.3130	11	TM		
32	S	Dibromofluoromethane(S)	0.6750	0.6845	1.4	S		
33	TM	1,1,1-TCA	1.120	1.192	6.5	TM		
34	TM	Cyclohexane	1.147	1.124	2.0	TM		
35	TM	1,1-Dichloropropene	0.9663	1.026	6.1	TM		
36	TM	2,2,4-Trimethylpentane	1.826	1.800	1.4	TM		
37	S	1,2-DCA-D4(S)	0.4764	0.4898	2.8	S		
38	TM	Carbon Tetrachloride	0.9487	0.9844	3.8	TM		
39	TM	Tert Amyl Methyl Ether	1.131	1.189	5.1	TM		
40	TM	1,2-DCA	0.5360	0.5928	11	TM		
		Average			8.3			

VOLATILE ORGANIC ANALYSIS BY EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66864
Date Analyzed: 3 Feb 12 12:35
Instrument: Chico
Cal. Date: 02/02/12
Data File: 0203C05W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	Benzene	3.043	3.073	0.98	TM	
42	TM	TCE	0.7897	0.8598	8.9	TM	
43	TM	2-Pentanone	0.1323	0.1549	17	TM	
44	TM*	1,2-Dichloropropane	0.6790	0.6988	2.6	TM*	
45	TM	Bromodichloromethane	0.7112	0.7639	7.4	TM	
46	TM	Methyl Cyclohexane	1.021	1.008	1.3	TM	
47	TM	Dibromomethane	0.2656	0.3027	14	TM	
48	TM	2-Chloroethyl vinyl ether	0.1805	0.1879	4.1	TM	
49	TM	1-Bromo-2-chloroethane	0.4967	0.5560	12	TM	
50	TM	Cis-1,3-Dichloropropene	0.8532	0.9399	10	TM	
51	TM*	Toluene	3.085	3.161	2.4	TM*	
52	TM	Trans-1,3-Dichloropropene	0.5824	0.6272	7.7	TM	
53	TM	1,1,2-TCA	0.2739	0.3138	15	TM	
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	3.733	3.428	8.2	S	
56	TM	1,2-EDB	0.4762	0.5168	8.5	TM	
57	TM	Tetrachloroethene	1.042	1.061	1.9	TM	
58	TM	1-Chlorohexane	1.553	1.510	2.8	TM	
59	TM	1,1,1,2-Tetrachloroethane	0.8337	0.9160	9.9	TM	
60	TM	m&p-Xylene	1.974	1.927	2.4	TM	
61	TM	o-Xylene	1.831	1.932	5.5	TM	
62	TM	Styrene	2.690	2.904	8.0	TM	
63	S	4-Bromofluorobenzene(S)	1.247	1.182	5.2	S	
64	TM	2-Hexanone	0.1641	0.1874	14	TM	
65	TM	1,3-Dichloropropane	0.8542	0.9324	9.2	TM	
66	TM	Dibromochloromethane	0.6073	0.6684	10	TM	
67	TM**	Chlorobenzene	2.696	2.819	4.6	TM**	
68	TM*	Ethylbenzene	5.004	5.004	0.00	TM*	
69	TM**	Bromoform	0.3240	0.3394	4.8	TM**	
70	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
71	TML	MIBK (methyl isobutyl ketone)	0.6363	0.5909	7.1	TML	11
72	TM	Isopropylbenzene	9.331	9.223	1.2	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.7999	0.8893	11	TM**	
74	TML	1,2,3-Trichloropropane	0.0951	0.0838	12	TML	4.7
75	TM	t-1,4-Dichloro-2-Butene	0.2047	0.2081	1.7	TM	
76	TM	Bromobenzene	2.263	2.205	2.5	TM	
77	TM	n-Propylbenzene	11.4	11.2	1.5	TM	
78	TM	4-Ethyltoluene	6.664	6.463	3.0	TM	
79	TM	2-Chlorotoluene	7.313	7.247	0.91	TM	
80	TM	1,3,5-Trimethylbenzene	7.463	7.548	1.1	TM	
		Average			6.3		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66864
Date Analyzed: 3 Feb 12 12:35
Instrument: Chico
Cal. Date: 02/02/12
Data File: 0203C05W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	4-Chlorotoluene	6.379	6.076	4.7	TM	
82	TM	Tert-Butylbenzene	8.097	7.834	3.2	TM	
83	TM	1,2,4-Trimethylbenzene	7.583	7.584	0.00	TM	
84	TM	Sec-Butylbenzene	10.3	10.1	2.8	TM	
85	TM	p-Isopropyltoluene	8.331	8.262	0.82	TM	
86	TM	Benzyl Chloride	1.426	1.622	14	TM	
87	TM	1,3-DCB	4.323	4.356	0.77	TM	
88	TM	1,4-DCB	4.019	4.101	2.0	TM	
89	TML	Hexachloroethane	1.527	1.680	10	TML	2.2
90	TM	n-Butylbenzene	7.350	7.374	0.33	TM	
91	TM	1,2-DCB	3.483	3.620	3.9	TM	
92	TM	1,2-Dibromo-3-chloropropane	0.1329	0.1465	10	TM	
93	TM	1,2,4-Trichlorobenzene	0.9973	1.152	16	TM	
94	TML	Hexachlorobutadiene	1.372	1.167	15	TML	5.2
95	TM	Naphthalene	2.862	3.353	17	TM	
96	TM	1,2,3-Trichlorobenzene	0.7698	0.8789	14	TM	
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			7.2		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C05W.D Vial: 1
Acq On : 3 Feb 12 12:35 Operator: RS, ARS
Sample : 120203A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 13:03 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.81	96	584886	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.01	117	417536	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.21	152	217792	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	359363	22.75494 ppb		0.00
Spiked Amount 22.441			Recovery = 101.398%			
37) 1,2-DCA-D4(S)	12.20	65	248763	22.32036 ppb		0.00
Spiked Amount 21.710			Recovery = 102.810%			
55) Toluene-D8(S)	15.47	98	1375483	22.06380 ppb		0.00
Spiked Amount 24.025			Recovery = 91.839%			
63) 4-Bromofluorobenzene(S)	20.08	95	511596	24.57258 ppb		0.00
Spiked Amount 25.909			Recovery = 94.842%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	166675	8.84535 ppb		99
3) Freon 114	4.32	85	131449	9.89533 ppb		92
4) Chloromethane	4.55	50	85553	10.62762 ppb		98
5) Vinyl chloride	4.81	62	54536	9.38524 ppb		97
6) Bromomethane	5.72	94	47432	10.30129 ppb		99
7) Chloroethane	5.92	64	39237	10.73000 ppb		99
8) Dichlorofluoromethane	6.00	67	383618	10.58685 ppb		99
9) Trichlorofluoromethane	6.51	103	42560	9.13581 ppb		94
10) Acetonitrile	7.65	41	80741	163.89822 ug/l		100
11) Acrolein	7.14	56	106227	140.42421 ppb		94
12) Acetone	7.27	43	12357	10.58858 ppb	#	66
13) Freon-113	7.44	101	155296	10.15441 ppb		94
14) 1,1-DCE	7.66	96	173700	10.05690 ppb		94
15) t-Butanol	7.76	59	8025	169.32093 ppb	#	76
16) Methyl Acetate	8.18	43	48811	10.64983 ppb		99
17) Iodomethane	8.15	142	289505	9.61736 ppb		94
18) Acrylonitrile	8.55	53	17922	11.47473 ppb		82
19) Methylene chloride	8.46	84	164658	11.01547 ppb		100
20) Carbon disulfide	8.54	76	187712	10.46507 ppb		97
21) Methyl t-butyl ether (MtBE	8.89	73	244670	11.10426 ppb		95
22) Trans-1,2-DCE	9.08	96	208738	10.41309 ppb		95
23) Diisopropyl Ether	9.74	45	522183	11.12398 ppb		99
24) 1,1-DCA	9.77	63	319116	10.40290 ppb		98
25) Vinyl Acetate	9.41	43	27536	9.54785 ppb	#	75
26) Ethyl tert Butyl Ether	10.42	59	364705	11.31429 ppb		94
27) MEK (2-Butanone)	10.42	43	14703	11.78681 ppb		91
28) Cis-1,2-DCE	10.79	96	218306	10.75243 ppb		99
29) 2,2-Dichloropropane	10.79	77	276063	10.95654 ppb		95
30) Chloroform	11.07	85	198859	10.69913 ppb		100
31) Bromochloromethane	11.29	128	73235	11.13235 ppb		98
33) 1,1,1-TCA	11.82	97	278843	10.64511 ppb		96
34) Cyclohexane	11.98	56	263047	9.80385 ppb		98
35) 1,1-Dichloropropene	12.09	75	239949	10.61411 ppb		97
36) 2,2,4-Trimethylpentane	12.15	57	421013	9.85524 ppb		96
38) Carbon Tetrachloride	12.27	117	230304	10.37633 ppb		97
39) Tert Amyl Methyl Ether	12.33	73	278160	10.50787 ppb		96
40) 1,2-DCA	12.35	62	138683	11.05964 ppb		94
41) Benzene	12.47	78	718936	10.09796 ppb		98
42) TCE	13.51	95	201150	10.88749 ppb		98

Algorithm Check: $\frac{(166675)(25)}{(584886)(8.805423)}(1) = 8.845354011$ ✓ ARS 2/6/12

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C05W.D Vial: 1
Acq On : 3 Feb 12 12:35 Operator: RS, ARS
Sample : 120203A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 13:03 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.18	43	453124	146.43260	ppb		99
44)	1,2-Dichloropropane	13.74	63	163022	10.26283	ppb		97
45)	Bromodichloromethane	14.09	83	178722	10.74170	ppb		97
46)	Methyl Cyclohexane	13.79	83	235810	9.87209	ppb		93
47)	Dibromomethane	14.15	93	70809	11.39737	ppb		93
48)	2-Chloroethyl vinyl ether	14.54	63	43958	10.40857	ppb		92
49)	1-Bromo-2-chloroethane	14.85	63	130089	11.19534	ppb		98
50)	Cis-1,3-Dichloropropene	14.98	75	219891	11.01590	ppb		97
51)	Toluene	15.61	91	739435	10.24371	ppb		97
52)	Trans-1,3-Dichloropropene	15.77	75	146736	10.76993	ppb		100
53)	1,1,2-TCA	16.05	83	73423	11.45775	ppb		99
56)	1,2-EDB	17.30	107	86313	10.85288	ppb		88
57)	Tetrachloroethene	16.76	164	177189	10.18564	ppb		87
58)	1-Chlorohexane	17.67	91	252208	9.72209	ppb		97
59)	1,1,1,2-Tetrachloroethane	18.12	131	152978	10.98728	ppb		99
60)	m&p-Xylene	18.33	106	643559	19.51640	ppb		99
61)	o-Xylene	19.07	106	322713	10.55205	ppb		94
62)	Styrene	19.09	104	485090	10.79909	ppb		99
64)	2-Hexanone	16.07	43	31302	11.41842	ppb		91
65)	1,3-Dichloropropane	16.46	76	155726	10.91543	ppb		97
66)	Dibromochloromethane	16.94	129	111626	11.00559	ppb		93
67)	Chlorobenzene	18.08	112	470780	10.45744	ppb		99
68)	Ethylbenzene	18.18	91	835740	9.99978	ppb		99
69)	Bromoform	19.60	173	56683	10.47559	ppb		91
71)	MIBK (methyl isobutyl keto	14.65	43	51481	11.09914	ppb		99
72)	Isopropylbenzene	19.70	105	803510	9.88464	ppb		100
73)	1,1,2,2-Tetrachloroethane	19.86	83	77474	11.11801	ppb		98
74)	1,2,3-Trichloropropane	20.13	110	7300	10.47114	ppb		98
75)	t-1,4-Dichloro-2-Butene	20.19	53	18130	10.16767	ppb		85
76)	Bromobenzene	20.44	156	192092	9.74565	ppb		98
77)	n-Propylbenzene	20.41	91	976643	9.84828	ppb		99
78)	4-Ethyltoluene	20.60	105	563026	9.69806	ppb		98
79)	2-Chlorotoluene	20.70	91	631300	9.90868	ppb		97
80)	1,3,5-Trimethylbenzene	20.68	105	657539	10.11374	ppb		97
81)	4-Chlorotoluene	20.77	91	529337	9.52511	ppb		99
82)	Tert-Butylbenzene	21.32	119	682446	9.67532	ppb		97
83)	1,2,4-Trimethylbenzene	21.37	105	660667	10.00050	ppb		100
84)	Sec-Butylbenzene	21.72	105	875971	9.71880	ppb		99
85)	p-Isopropyltoluene	21.95	119	719797	9.91754	ppb		98
86)	Benzyl Chloride	22.39	91	141324	11.37500	ppb		94
87)	1,3-DCB	22.09	146	379509	10.07700	ppb		98
88)	1,4-DCB	22.26	146	357259	10.20490	ppb		100
89)	Hexachloroethane	23.56	117	146370	9.77650	ppb		97
90)	n-Butylbenzene	22.66	91	642430	10.03251	ppb		94
91)	1,2-DCB	22.89	146	315391	10.39472	ppb		95
92)	1,2-Dibromo-3-chloropropan	24.11	155	12760	11.02230	ppb	#	70
93)	1,2,4-Trichlorobenzene	25.55	180	100352	11.55035	ppb		93
94)	Hexachlorobutadiene	25.80	223	101689	10.52029	ppb		86
95)	Naphthalene	25.90	128	292138	11.71861	ppb		99
96)	1,2,3-Trichlorobenzene	26.26	180	76568	11.41711	ppb		98

11.01590 + 10.76993 = 21.78583 ppb is the amount of total 1,3-dichloropropene

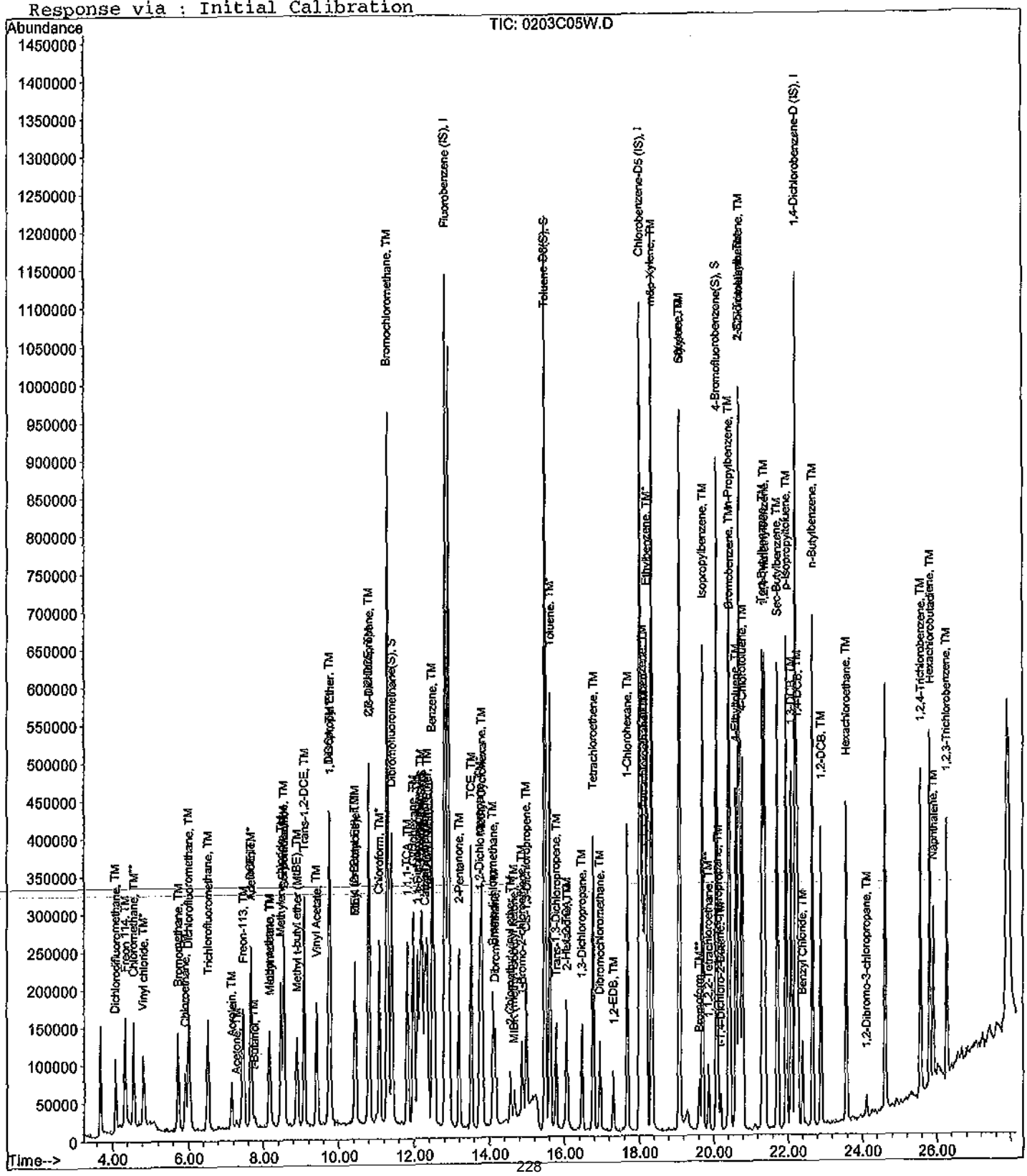
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C05W.D Vial: 1
Acq On : 3 Feb 12 12:35 Operator: RS, ARS
Sample : 120203A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 13:03 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66864
Date Analyzed: 3 Feb 12 11:58
Instrument: Chico
Initial Cal. Date: 02/02/12
Data File: 0203C04W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.8054	0.9619	19	TM		
3	TM	Freon 114	0.5678	0.6306	11	TM		
4	TM**	Chloromethane	0.3441	0.3438	0.09	TM**	✓	
5	TM*	Vinyl chloride	0.2484	0.2396	3.5	TM*	✓	
6	TM	Bromomethane	0.1968	0.2063	4.8	TM		
7	TML	Chloroethane	0.1738	0.1736	0.11	TML	11	
8	TM	Dichlorofluoromethane	1.549	1.643	6.1	TM		
9	TM	Trichlorofluoromethane	0.1991	0.2094	5.2	TM		
10		Acetonitrile	0.0211	0.0258	22			*NT
11	TM	Acrolein	0.0323	0.0362	12	TM		
12	TML	Acetone	0.0531	0.0527	0.68	TML	5.6	
13	TM	Freon-113	0.6537	0.7031	7.6	TM		
14	TM*	1,1-DCE	0.7383	0.7463	1.1	TM*	✓	
15	TM	t-Butanol	0.0020	0.0027	34	TM		*NT
16	TML	Methyl Acetate	0.2162	0.1911	12	TML	3.9	
17	TML	Iodomethane	1.117	1.238	11	TML	3.7	
18	TM	Acrylonitrile	0.0668	0.0737	10	TM		
19	TM	Methylene chloride	0.6389	0.6902	8.0	TM		
20	TM	Carbon disulfide	0.7667	0.8433	10.0	TM		
21	TM	Methyl t-butyl ether (MtBE)	0.9418	0.9991	6.1	TM		
22	TM	Trans-1,2-DCE	0.8568	0.8954	4.5	TM		
23	TM	Diisopropyl Ether	2.006	2.201	9.7	TM		
24	TM**	1,1-DCA	1.311	1.372	4.6	TM**	✓	
25	TML	Vinyl Acetate	0.1503	0.1377	8.4	TML	12	
26	TM	Ethyl tert Butyl Ether	1.378	1.528	11	TM		
27	TM	MEK (2-Butanone)	0.0533	0.0585	9.8	TM		
28	TML	Cis-1,2-DCE	0.9225	0.9164	0.67	TML	5.2	
29	TM	2,2-Dichloropropane	1.077	1.170	8.6	TM		
30	TM*	Chloroform	0.7944	0.8544	7.5	TM*	✓	
31	TM	Bromochloromethane	0.2812	0.3078	9.5	TM		
32	S	Dibromofluoromethane(S)	0.6750	0.6737	0.19	S		
33	TM	1,1,1-TCA	1.120	1.209	8.0	TM		
34	TM	Cyclohexane	1.147	1.212	5.7	TM		
35	TM	1,1-Dichloropropene	0.9663	1.012	4.7	TM		
36	TM	2,2,4-Trimethylpentane	1.826	1.972	8.0	TM		
37	S	1,2-DCA-D4(S)	0.4764	0.4769	0.10	S		
38	TM	Carbon Tetrachloride	0.9487	1.015	7.0	TM		
39	TM	Tert Amyl Methyl Ether	1.131	1.170	3.4	TM		
40	TM	1,2-DCA	0.5360	0.5756	7.4	TM		
		Average			7.8			

VOLATILE ORGANIC ANALYSIS BY EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66864
Date Analyzed: 3 Feb 12 11:58
Instrument: Chico
Cal. Date: 02/02/12
Data File: 0203C04W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	Benzene	3.043	3.051	0.24	TM	
42	TM	TCE	0.7897	0.8567	8.5	TM	
43	TM	2-Pentanone	0.1323	0.1486	12	TM	
44	TM*	1,2-Dichloropropane	0.6790	0.6671	1.8	TM*	
45	TM	Bromodichloromethane	0.7112	0.7619	7.1	TM	
46	TM	Methyl Cyclohexane	1.021	1.066	4.4	TM	
47	TM	Dibromomethane	0.2656	0.2929	10	TM	
48	TM	2-Chloroethyl vinyl ether	0.1805	0.1809	0.19	TM	
49	TM	1-Bromo-2-chloroethane	0.4967	0.5391	8.6	TM	
50	TM	Cis-1,3-Dichloropropene	0.8532	0.9002	5.5	TM	
51	TM*	Toluene	3.085	3.137	1.7	TM*	
52	TM	Trans-1,3-Dichloropropene	0.5824	0.6408	10	TM	
53	TM	1,1,2-TCA	0.2739	0.3050	11	TM	
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	3.733	3.301	12	S	
56	TM	1,2-EDB	0.4762	0.4940	3.7	TM	
57	TM	Tetrachloroethene	1.042	1.040	0.18	TM	
58	TM	1-Chlorohexane	1.553	1.494	3.8	TM	
59	TM	1,1,1,2-Tetrachloroethane	0.8337	0.8854	6.2	TM	
60	TM	m&p-Xylene	1.974	1.901	3.7	TM	
61	TM	o-Xylene	1.831	1.841	0.53	TM	
62	TM	Styrene	2.690	2.744	2.0	TM	
63	S	4-Bromofluorobenzene(S)	1.247	1.158	7.1	S	
64	TM	2-Hexanone	0.1641	0.1733	5.6	TM	
65	TM	1,3-Dichloropropane	0.8542	0.8490	0.61	TM	
66	TM	Dibromochloromethane	0.6073	0.6409	5.5	TM	
67	TM**	Chlorobenzene	2.696	2.709	0.51	TM**	
68	TM*	Ethylbenzene	5.004	4.973	0.62	TM*	
69	TM**	Bromoform	0.3240	0.3174	2.0	TM**	
70	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
71	TML	MIBK (methyl isobutyl ketone)	0.6363	0.5714	10	TML	7.4
72	TM	Isopropylbenzene	9.331	9.082	2.7	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.7999	0.8584	7.3	TM**	
74	TML	1,2,3-Trichloropropane	0.0951	0.0932	2.0	TML	16
75	TM	t-1,4-Dichloro-2-Butene	0.2047	0.1931	5.7	TM	
76	TM	Bromobenzene	2.263	2.157	4.6	TM	
77	TM	n-Propylbenzene	11.4	11.1	2.4	TM	
78	TM	4-Ethyltoluene	6.664	6.384	4.2	TM	
79	TM	2-Chlorotoluene	7.313	7.034	3.8	TM	
80	TM	1,3,5-Trimethylbenzene	7.463	7.490	0.37	TM	
		Average			4.7		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66864
Date Analyzed: 3 Feb 12 11:58
Instrument: Chico
Cal. Date: 02/02/12
Data File: 0203C04W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	4-Chlorotoluene	6.379	6.048	5.2	TM	
82	TM	Tert-Butylbenzene	8.097	7.882	2.7	TM	
83	TM	1,2,4-Trimethylbenzene	7.583	7.481	1.3	TM	
84	TM	Sec-Butylbenzene	10.3	10.2	1.8	TM	
85	TM	p-Isopropyltoluene	8.331	8.048	3.4	TM	
86	TM	Benzyl Chloride	1.426	1.585	11	TM	
87	TM	1,3-DCB	4.323	4.249	1.7	TM	
88	TM	1,4-DCB	4.019	3.920	2.5	TM	
89	TML	Hexachloroethane	1.527	1.641	7.5	TML	4.4
90	TM	n-Butylbenzene	7.350	7.240	1.5	TM	
91	TM	1,2-DCB	3.483	3.454	0.84	TM	
92	TM	1,2-Dibromo-3-chloropropane	0.1329	0.1265	4.8	TM	
93	TM	1,2,4-Trichlorobenzene	0.9973	1.117	12	TM	
94	TML	Hexachlorobutadiene	1.372	1.163	15	TML	4.8
95	TM	Naphthalene	2.862	3.209	12	TM	
96	TM	1,2,3-Trichlorobenzene	0.7698	0.8701	13	TM	
97							
98							
99							
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118							
119							
120							
		Average			6.0		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C04W.D Vial: 1
Acq On : 3 Feb 12 11:58 Operator: RS, ARS
Sample : 10ug/L Vol Std 02-03-12 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 12:28 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	580203	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	424512	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	218240	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	350896	22.39814 ppb		0.00
Spiked Amount 22.441			Recovery = 99.807%			
37) 1,2-DCA-D4(S)	12.20	65	240275	21.73278 ppb		0.00
Spiked Amount 21.710			Recovery = 100.106%			
55) Toluene-D8(S)	15.47	98	1346735	21.24767 ppb		0.00
Spiked Amount 24.025			Recovery = 88.443%			
63) 4-Bromofluorobenzene(S)	20.07	95	509500	24.06976 ppb		0.00
Spiked Amount 25.909			Recovery = 92.901%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.07	85	223232	11.94242 ppb		99
3) Freon 114	4.32	85	146341	11.10530 ppb		95
4) Chloromethane	4.55	50	79782	9.99072 ppb		97
5) Vinyl chloride	4.82	62	55603	9.64609 ppb		98
6) Bromomethane	5.72	94	47872	10.48077 ppb		99
7) Chloroethane	5.90	64	40299	11.13573 ppb		95
8) Dichlorofluoromethane	6.00	67	381228	10.60581 ppb		96
9) Trichlorofluoromethane	6.51	103	48600	10.51654 ppb		94
10) Acetonitrile	7.64	41	74788	153.03941 ug/l		100
11) Acrolein	7.14	56	104921	139.81725 ppb		99
12) Acetone	7.26	43	12232	10.56138 ppb		99
13) Freon-113	7.45	101	163186	10.75644 ppb		93
14) 1,1-DCE	7.66	96	173196	10.10866 ppb		96
15) t-Butanol	7.75	59	7872	167.43334 ppb	#	90
16) Methyl Acetate	8.17	43	44341	9.60727 ppb		98
17) Iodomethane	8.14	142	287423	9.62566 ppb		96
18) Acrylonitrile	8.55	53	17112	11.04455 ppb		93
19) Methylene chloride	8.45	84	160177	10.80219 ppb		94
20) Carbon disulfide	8.54	76	195712	10.99914 ppb		96
21) Methyl t-butyl ether (MtBE	8.87	73	231874	10.60845 ppb		97
22) Trans-1,2-DCE	9.07	96	207814	10.45067 ppb		98
23) Diisopropyl Ether	9.73	45	510839	10.97015 ppb		98
24) 1,1-DCA	9.77	63	318449	10.46494 ppb		100
25) Vinyl Acetate	9.40	43	31952	11.23004 ppb		95
26) Ethyl tert Butyl Ether	10.43	59	354561	11.08837 ppb		98
27) MEK (2-Butanone)	10.42	43	13585	10.97846 ppb	#	88
28) Cis-1,2-DCE	10.79	96	212668	10.52259 ppb		98
29) 2,2-Dichloropropane	10.79	77	271528	10.86353 ppb		100
30) Chloroform	11.07	85	198293	10.75479 ppb		98
31) Bromochloromethane	11.29	128	71430	10.94561 ppb		97
33) 1,1,1-TCA	11.81	97	280532	10.79603 ppb		100
34) Cyclohexane	11.98	56	281337	10.57016 ppb		97
35) 1,1-Dichloropropene	12.08	75	234908	10.47500 ppb		96
36) 2,2,4-Trimethylpentane	12.15	57	457708	10.80069 ppb		96
38) Carbon Tetrachloride	12.28	117	235503	10.69622 ppb		97
39) Tert Amyl Methyl Ether	12.32	73	271476	10.33815 ppb		95
40) 1,2-DCA	12.34	62	133591	10.73955 ppb		94
41) Benzene	12.47	78	707970	10.02419 ppb		99
42) TCE	13.50	95	198828	10.84867 ppb		97

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C04W.D Vial: 1
Acq On : 3 Feb 12 11:58 Operator: RS, ARS
Sample : 10ug/L Vol Std 02-03-12 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 12:28 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.18	43	431091	140.43680	ppb		100
44)	1,2-Dichloropropane	13.74	63	154816	9.82490	ppb		98
45)	Bromodichloromethane	14.08	83	176822	10.71328	ppb		98
46)	Methyl Cyclohexane	13.78	83	247344	10.43854	ppb		96
47)	Dibromomethane	14.14	93	67985	11.03114	ppb		88
48)	2-Chloroethyl vinyl ether	14.55	63	41976	10.01949	ppb		96
49)	1-Bromo-2-chloroethane	14.85	63	125125	10.85506	ppb		97
50)	Cis-1,3-Dichloropropene	14.97	75	208925	10.55101	ppb		96
51)	Toluene	15.60	91	728145	10.16872	ppb		96
52)	Trans-1,3-Dichloropropene	15.77	75	148724	11.00395	ppb		93
53)	1,1,2-TCA	16.05	83	70791	11.13618	ppb		92
56)	1,2-EDB	17.30	107	83880	10.37364	ppb	#	83
57)	Tetrachloroethene	16.75	164	176540	9.98156	ppb		92
58)	1-Chlorohexane	17.67	91	253730	9.62003	ppb		94
59)	1,1,1,2-Tetrachloroethane	18.13	131	150346	10.62079	ppb		94
60)	m&p-Xylene	18.32	106	645706	19.25973	ppb		98
61)	o-Xylene	19.07	106	312597	10.05331	ppb		97
62)	Styrene	19.09	104	466030	10.20429	ppb		96
64)	2-Hexanone	16.08	43	29425	10.55733	ppb		87
65)	1,3-Dichloropropane	16.46	76	144161	9.93874	ppb		99
66)	Dibromochloromethane	16.94	129	108830	10.55360	ppb		86
67)	Chlorobenzene	18.07	112	460054	10.05125	ppb		99
68)	Ethylbenzene	18.18	91	844425	9.93766	ppb		100
69)	Bromoform	19.61	173	53891	9.79594	ppb		97
71)	MIBK (methyl isobutyl keto	14.65	43	49880	10.73981	ppb		91
72)	Isopropylbenzene	19.70	105	792790	9.73275	ppb		100
73)	1,1,2,2-Tetrachloroethane	19.85	83	74939	10.73215	ppb		90
74)	1,2,3-Trichloropropane	20.11	110	8137	11.64289	ppb		90
75)	t-1,4-Dichloro-2-Butene	20.19	53	16857	9.43434	ppb		95
76)	Bromobenzene	20.44	156	188332	9.53527	ppb		92
77)	n-Propylbenzene	20.40	91	969454	9.75572	ppb		99
78)	4-Ethyltoluene	20.59	105	557260	9.57904	ppb		99
79)	2-Chlorotoluene	20.70	91	614012	9.61755	ppb		95
80)	1,3,5-Trimethylbenzene	20.68	105	653869	10.03664	ppb		99
81)	4-Chlorotoluene	20.78	91	527937	9.48042	ppb		99
82)	Tert-Butylbenzene	21.32	119	688065	9.73496	ppb		97
83)	1,2,4-Trimethylbenzene	21.38	105	653068	9.86518	ppb		97
84)	Sec-Butylbenzene	21.72	105	886694	9.81758	ppb		98
85)	p-Isopropyltoluene	21.95	119	702519	9.65961	ppb		99
86)	Benzyl Chloride	22.39	91	138337	11.11173	ppb		95
87)	1,3-DCB	22.08	146	370880	9.82766	ppb		99
88)	1,4-DCB	22.26	146	342166	9.75372	ppb		98
89)	Hexachloroethane	23.55	117	143263	9.56397	ppb		98
90)	n-Butylbenzene	22.66	91	632044	9.85006	ppb		95
91)	1,2-DCB	22.89	146	301492	9.91624	ppb		97
92)	1,2-Dibromo-3-chloropropan	24.10	155	11040	9.51696	ppb	#	78
93)	1,2,4-Trichlorobenzene	25.55	180	97496	11.19860	ppb		90
94)	Hexachlorobutadiene	25.80	223	101512	10.47988	ppb		93
95)	Naphthalene	25.90	128	280153	11.21478	ppb		100
96)	1,2,3-Trichlorobenzene	26.26	180	75960	11.30320	ppb		99

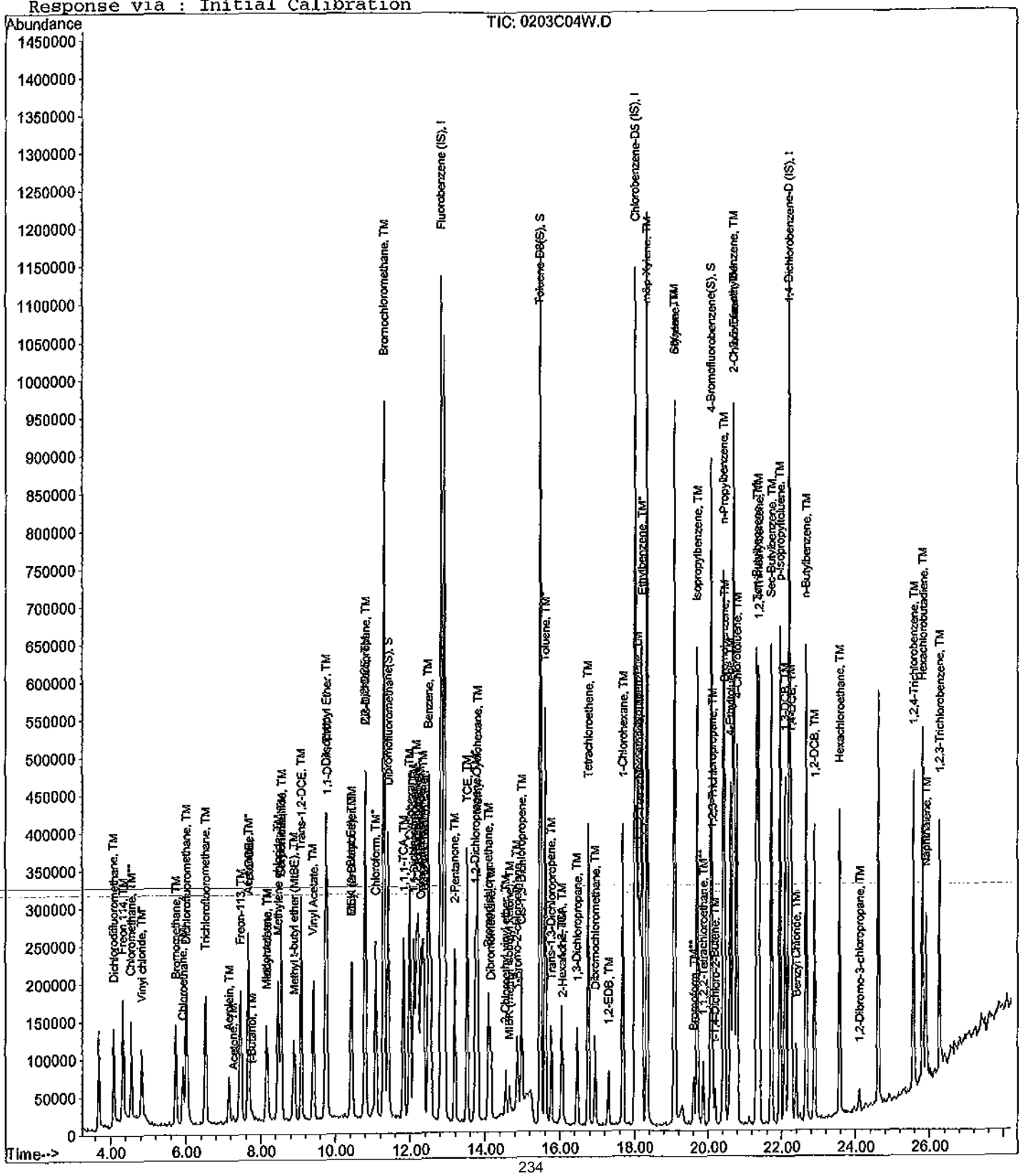
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C04W.D Vial: 1
Acq On : 3 Feb 12 11:58 Operator: RS, ARS
Sample : 10ug/L Vol Std 02-03-12 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 12:28 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66864
Case No: Initial Cal. Date: 01/25/12
Matrix: Water Instrument: Chico
Initials:

			0125C29W.D	0125C30W.D	0125C31W.D	0125C32W.D	0125C33W.D	0125C34W.D	0125C35W.D							
		Compound	20	50	100	300	600	800	1000				Avg	%RSD		r
1	I	Fluorobenzene (IS)														
2	TMHBL	Gasoline	23.6	10.6	5.907	3.541	2.892	2.841	2.494				7.4	104	TMHBL	0.997
3	I	Chlorobenzene-D5 (IS)														
4	I	1,4-Dichlorobenzene-D (IS)														
5																
6																
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10																
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Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:41 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.80	TIC	998565	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	2063547	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1276666	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	68624186m	598.65494	ppb	100

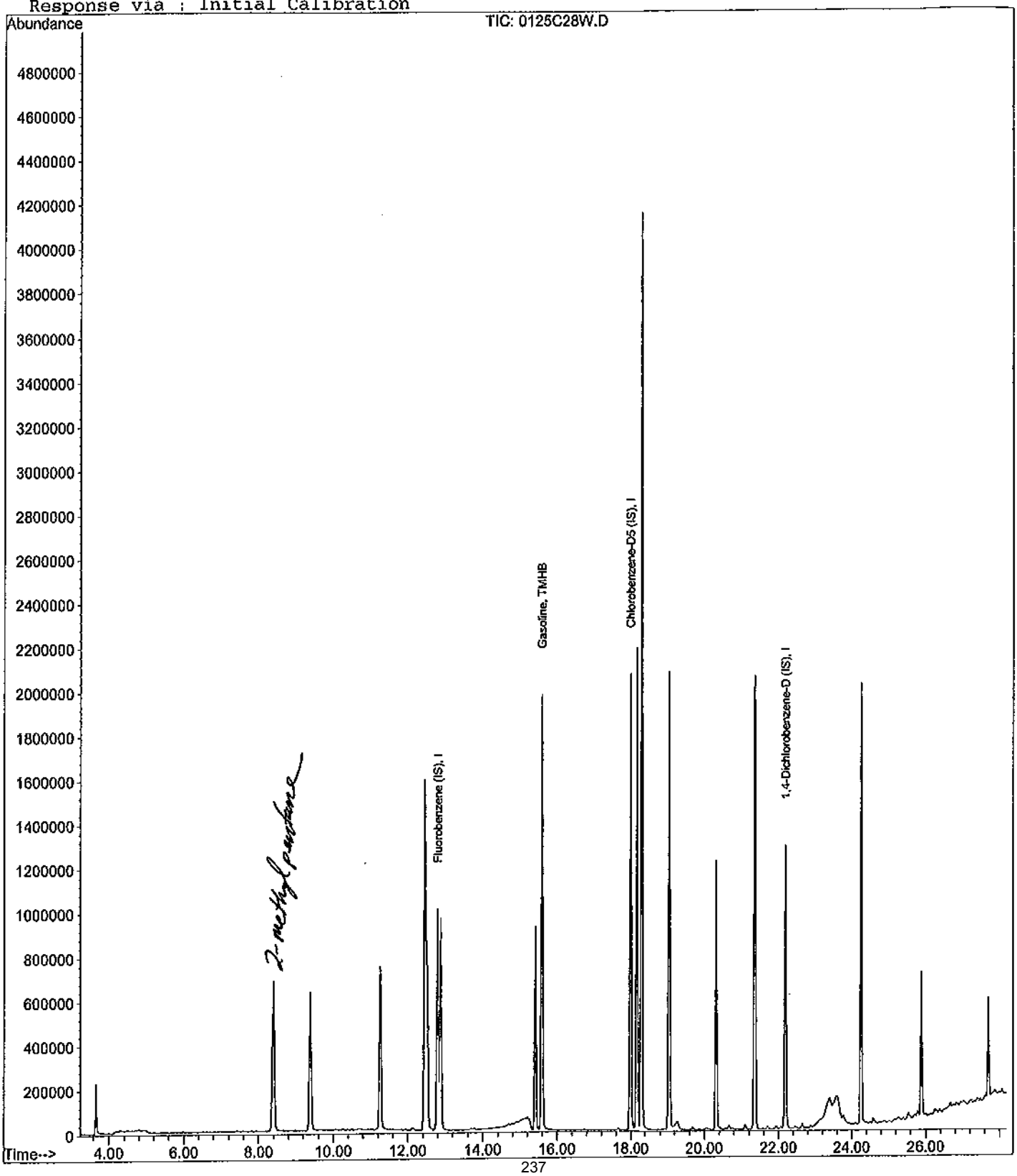
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:41 2012 Quant Results File: CGAS.RES

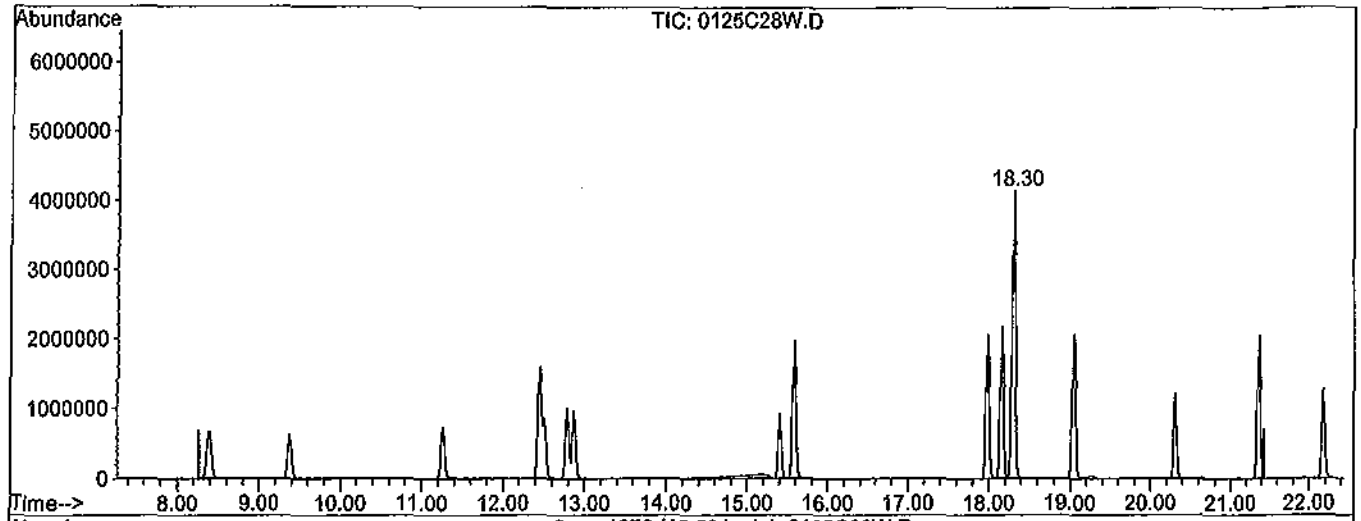
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

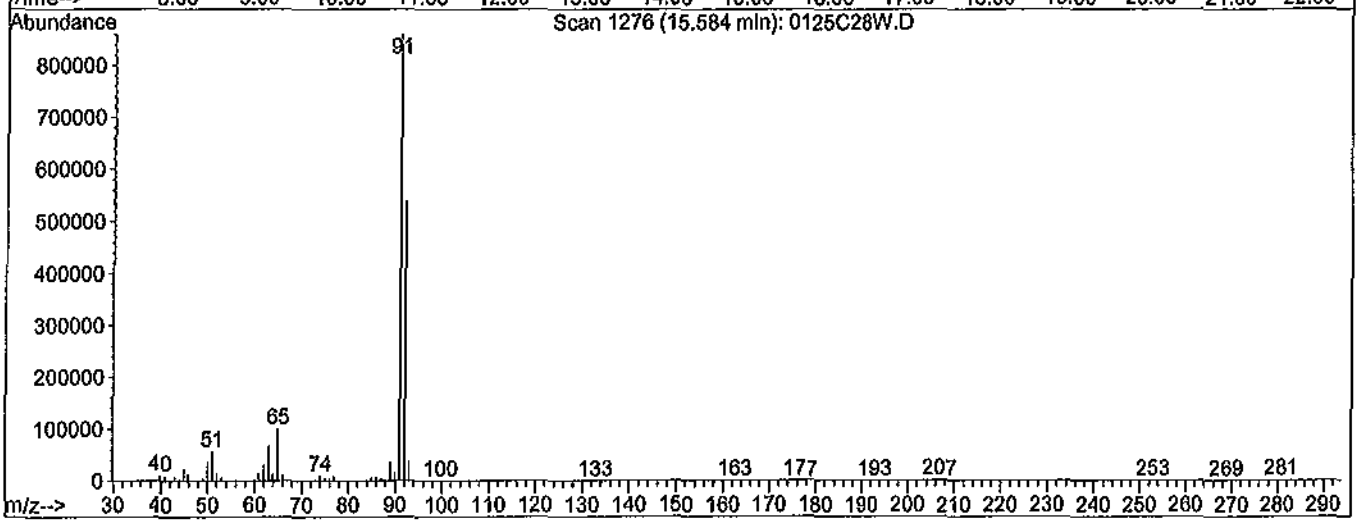


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:41 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0125C28W.D

(2) Gasoline (TMHB)

15.58min 598.6549ppb m

response 68624186

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.19#
0.00	0.00	0.54#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 11:40 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.80	96	514344	25.00000 ppb		0.03
54) Chlorobenzene-D5 (IS)	17.98	117	426880	25.00000 ppb		0.02
70) 1,4-Dichlorobenzene-D (IS)	22.18	152	243008	25.00000 ppb		0.02
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	814	0.05945 ppb		0.04
Spiked Amount 24.119			Recovery =	0.245%		
37) 1,2-DCA-D4(S)	12.18	65	952	0.09637 ppb		0.02
Spiked Amount 22.874			Recovery =	0.420%		
55) Toluene-D8(S)	15.46	98	5539	0.10268 ppb		0.03
Spiked Amount 24.755			Recovery =	0.416%		
63) 4-Bromofluorobenzene(S)	20.05	95	5181	0.27480 ppb		0.02
Spiked Amount 26.777			Recovery =	1.027%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.06	85	2596	0.82228 ppb		98
3) Freon 114	4.31	85	1957	0.24927 ppb		98
4) Chloromethane	4.53	50	497	-0.25189 ppb	#	1
5) Vinyl chloride	4.81	62	636	0.11072 ppb	#	55
6) Bromomethane	5.66	94	352	1.43494 ppb	#	48
7) Chloroethane	5.89	64	688	0.17146 ppb	#	88
9) Trichlorofluoromethane	6.48	103	598	0.15470 ppb	#	42
11) Acrolein	7.16	56	139	1.20103 ppb		81
12) Acetone	7.25	43	1756	0.17301 ppb	#	49
13) Freon-113	7.44	101	1265	0.10656 ppb		84
14) 1,1-DCE	7.63	96	2136	0.28441 ppb	#	17
15) t-Butanol	7.75	59	112	1.98451 ppb	#	80
17) Iodomethane	8.12	142	488	0.33050 ppb	#	43
18) Acrylonitrile	8.40	53	18247	12.53629 ppb	#	22
19) Methylene chloride	8.44	84	5961	-0.42807 ppb	#	1
20) Carbon disulfide	8.51	76	565	0.07522 ppb	#	75
22) Trans-1,2-DCE	9.06	96	3142	0.09631 ppb	#	9
25) Vinyl Acetate	9.38	43	108176	52.11193 ppb		98
27) MEK (2-Butanone)	10.41	43	403	0.27118 ppb	#	66
28) Cis-1,2-DCE	10.76	96	1544	0.11362 ppb	#	23
34) Cyclohexane	11.97	56	2103	0.11787 ppb		99
35) 1,1-Dichloropropene	12.09	75	2011	0.15580 ppb	#	45
36) 2,2,4-Trimethylpentane	12.13	57	18754	0.54048 ppb		99
38) Carbon Tetrachloride	12.23	117	80	0.91706 ppb	#	41
40) 1,2-DCA	12.45	62	18764	2.04942 ppb	#	75
41) Benzene	12.45	78	2517875	58.71375 ppb		98
42) TCE	13.49	95	1033	0.08724 ppb	#	57
43) 2-Pentanone	13.09	43	1444	0.49565 ppb	#	63
46) Methyl Cyclohexane	13.76	83	4236	0.25633 ppb		93
50) Cis-1,3-Dichloropropene	14.93	75	612	-0.23271 ppb		85
51) Toluene	15.58	91	2516540	49.99585 ppb		96
52) Trans-1,3-Dichloropropene	15.76	75	1112	0.10188 ppb	#	60
57) Tetrachloroethene	16.75	164	1780	0.15371 ppb	#	45
58) 1-Chlorohexane	17.66	91	4450	0.20898 ppb		89
60) m&p-Xylene	18.30	106	2213106	87.61936 ppb		97
61) o-Xylene	19.05	106	1078952	43.01267 ppb		93
62) Styrene	19.05	104	54491	1.45381 ppb	#	1
64) 2-Hexanone	16.02	43	394	0.17017 ppb	#	25
67) Chlorobenzene	18.06	112	2884	0.07867 ppb	#	48

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 11:40 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
68) Ethylbenzene	18.17	91	2939246	43.94023 ppb		100
71) MIBK (methyl isobutyl keto	14.58	43	99	-0.18362 ppb	#	31
72) Isopropylbenzene	19.69	105	9228	0.12704 ppb		92
75) t-1,4-Dichloro-2-Butene	20.31	53	19055	11.41330 ppb	#	8
76) Bromobenzene	20.43	156	3594	0.20876 ppb	#	47
77) n-Propylbenzene	20.39	91	18116	0.20048 ppb		98
78) 4-Ethyltoluene	20.59	105	8271	0.15756 ppb		90
79) 2-Chlorotoluene	20.68	91	7547	0.13199 ppb	#	77
80) 1,3,5-Trimethylbenzene	20.66	105	19818	0.33532 ppb		92
81) 4-Chlorotoluene	20.77	91	9067	0.17883 ppb		97
82) Tert-Butylbenzene	21.36	119	276648	4.08833 ppb	#	71
83) 1,2,4-Trimethylbenzene	21.36	105	2161299	36.78081 ppb		97
84) Sec-Butylbenzene	21.70	105	18537	0.22205 ppb	#	76
85) p-Isopropyltoluene	21.93	119	13390	0.19972 ppb	#	89
86) Benzyl Chloride	22.37	91	1446	0.10670 ppb	#	90
87) 1,3-DCB	22.08	146	7950	0.23447 ppb		83
88) 1,4-DCB	22.25	146	8802	0.26702 ppb	#	79
89) Hexachloroethane	23.52	117	2736	0.90342 ppb	#	25
90) n-Butylbenzene	22.65	91	21345	0.34686 ppb	#	94
91) 1,2-DCB	22.88	146	6887	0.24229 ppb	#	79
92) 1,2-Dibromo-3-chloropropan	24.07	155	120	0.11615 ppb	#	46
93) 1,2,4-Trichlorobenzene	25.53	180	5653	0.69548 ppb		79
94) Hexachlorobutadiene	25.78	223	5853	0.53769 ppb	#	69
95) Naphthalene	25.89	128	857570	35.27522 ppb		99
96) 1,2,3-Trichlorobenzene	26.24	180	4574	0.69979 ppb		85

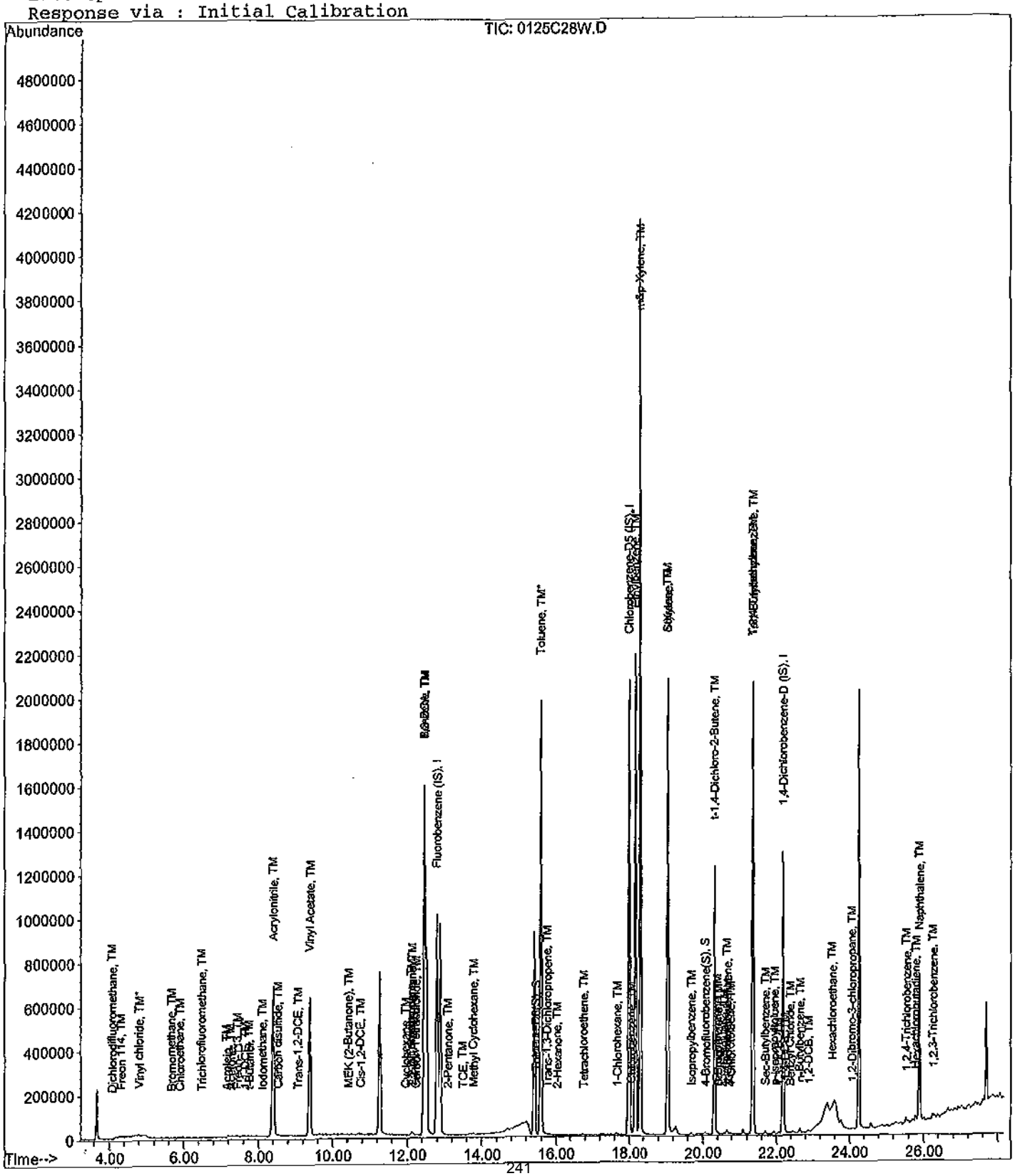
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 11:40 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:34 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:01:13 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1053352	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1266647	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1287754	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	17.98	TIC	19858101m	31.82421	ppb	100

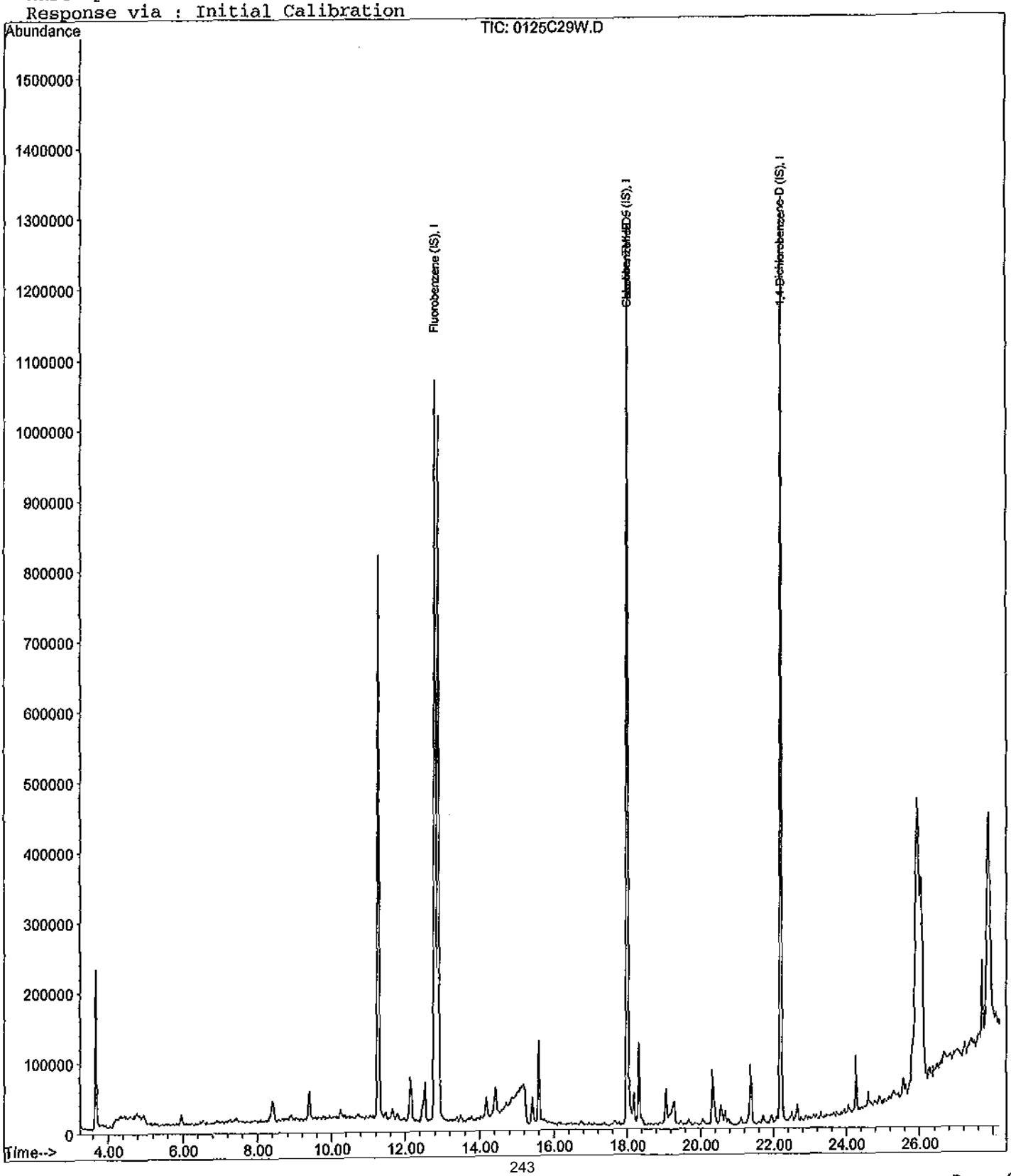
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:34 2012 Quant Results File: CGAS.RES

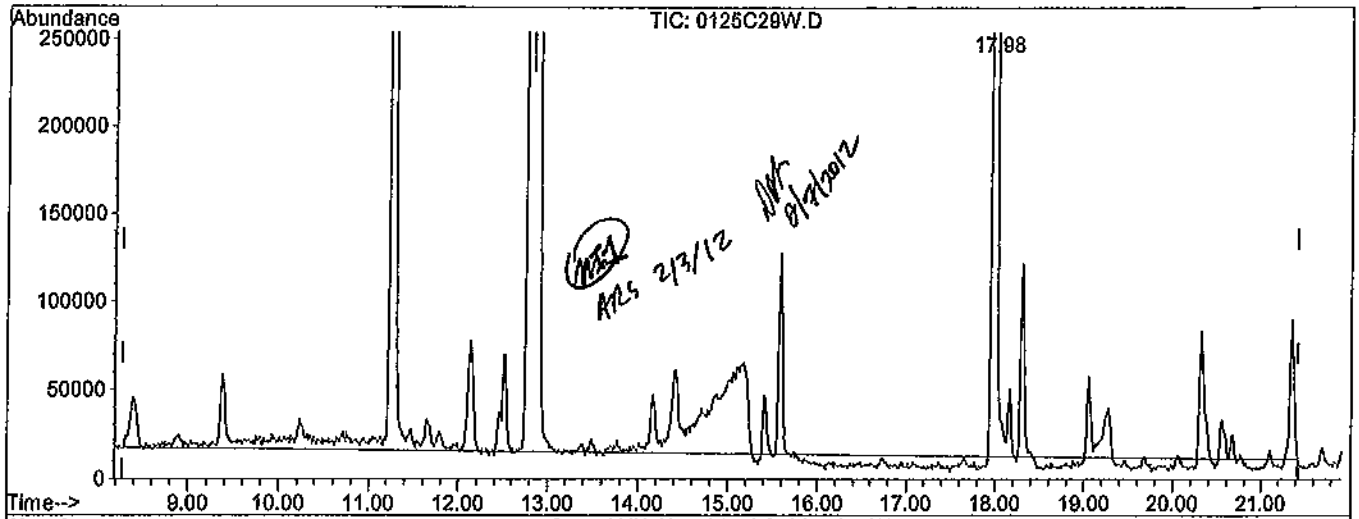
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

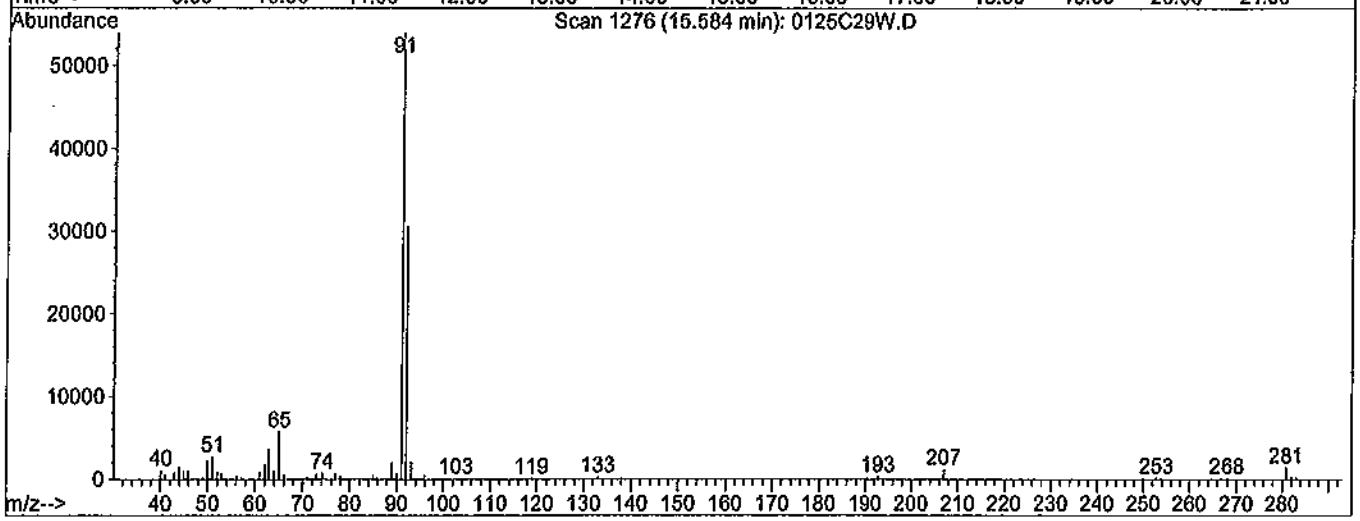


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C29W.D

(2) Gasoline (TMHB)

15.58min -8.2763ppb m

response 16152794

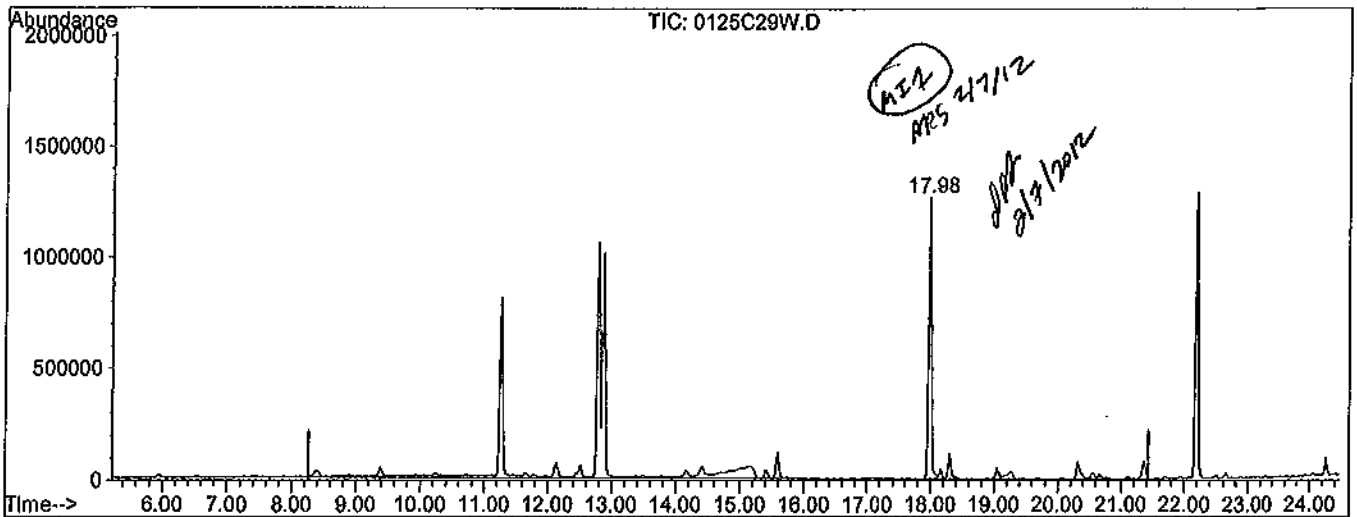
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.79#
0.00	0.00	2.40#
0.00	0.00	0.00

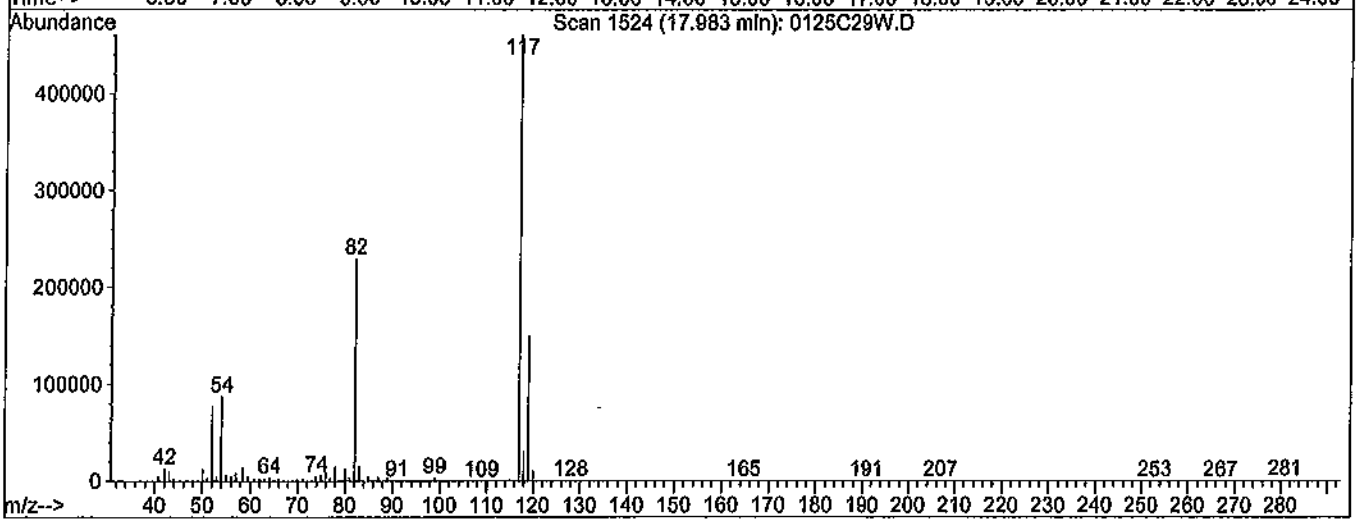
0125C29W.D CGAS.M Fri Feb 03 12:11:22 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:34 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0125C29W.D

(2) Gasoline (TMHB)

17.98min 31.8242ppb m

response 19858101

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.64#
0.00	0.00	1.95#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:35 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1088272	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.99	TIC	1269196	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.19	TIC	1282230	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	17.99	TIC	23136590m	59.27095	ppb	100

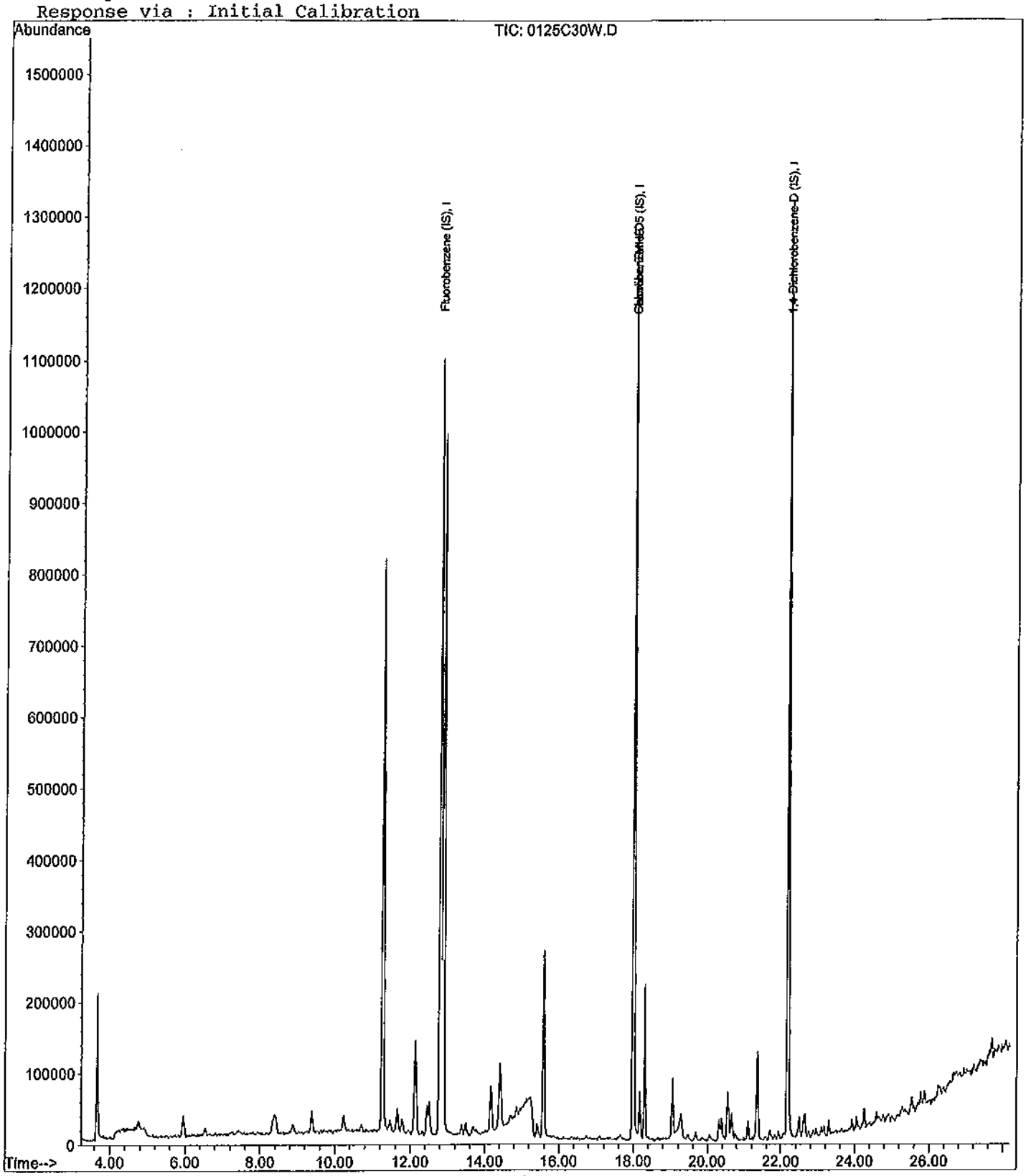
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:35 2012 Quant Results File: CGAS.RES

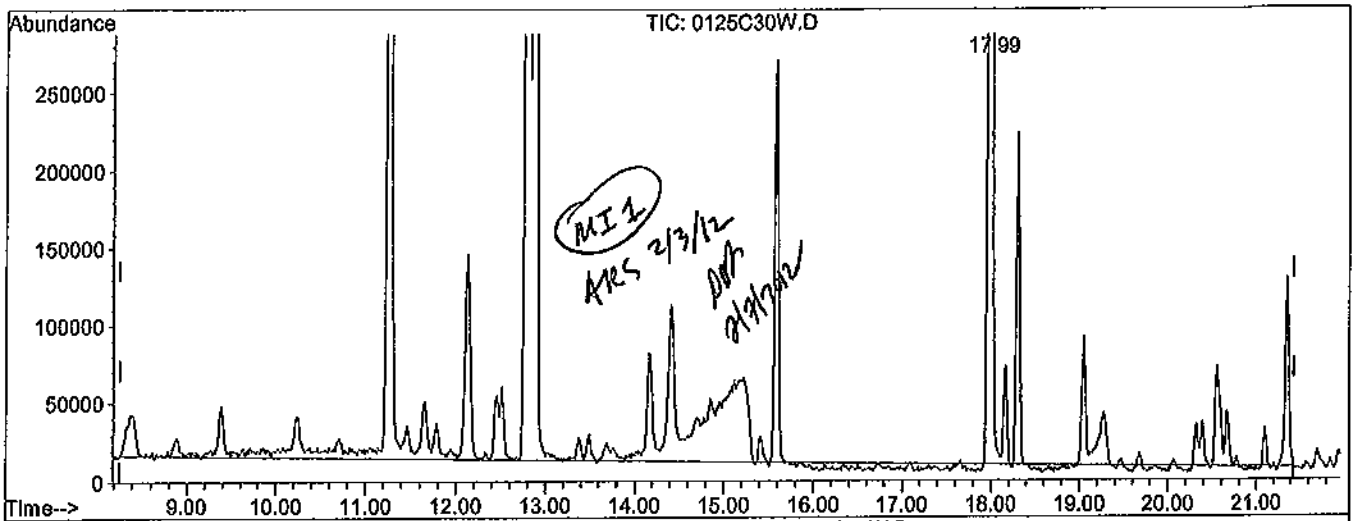
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

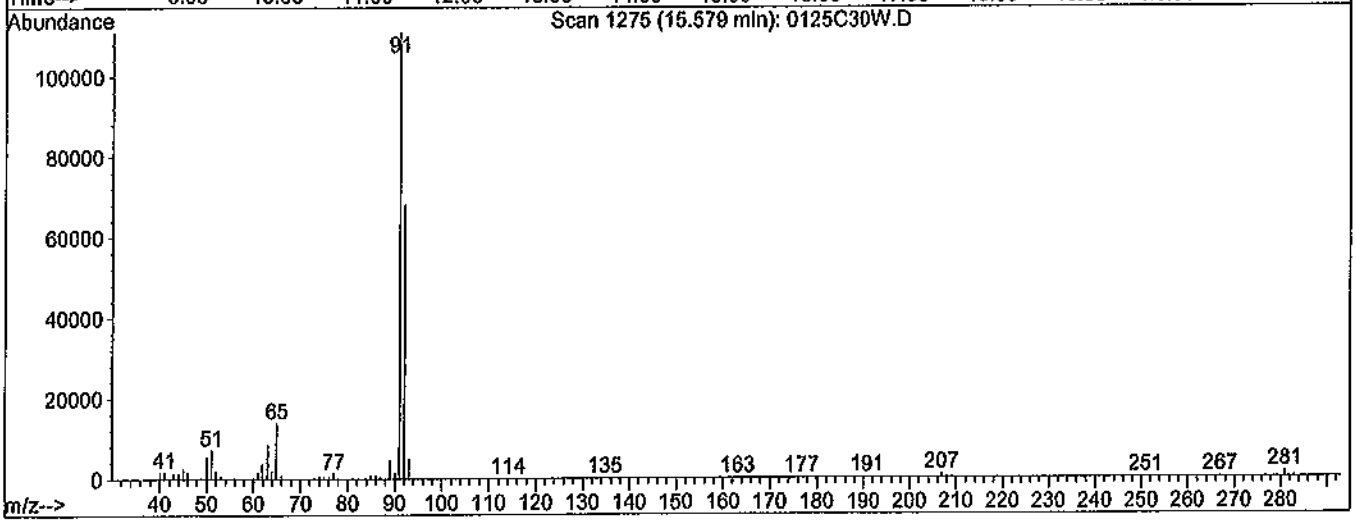


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C30W.D

(2) Gasoline (TMHB)

15.58min -0.0275ppb m

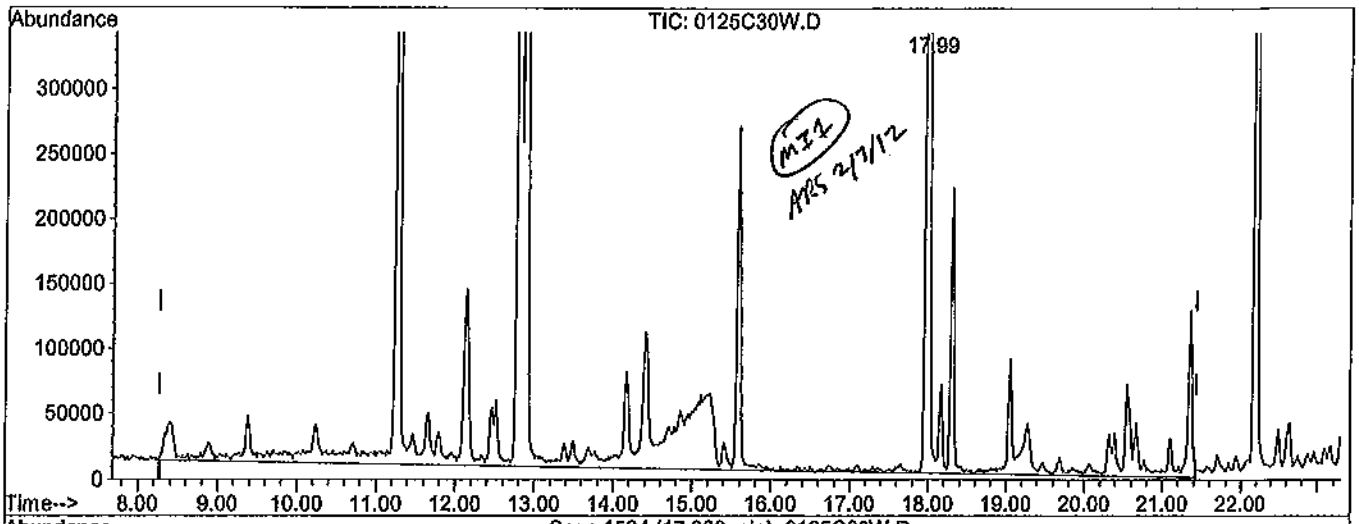
response 17475741

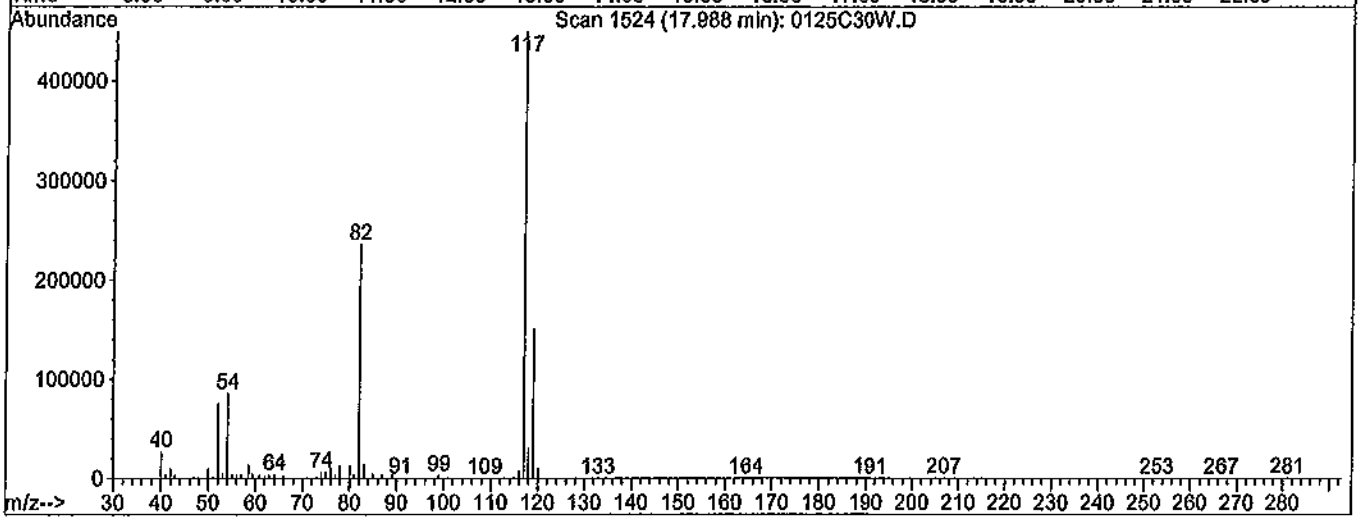
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.72#
0.00	0.00	2.18#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:35 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C30W.D

(2) Gasoline (TMHB)

17.99min 59.2710ppb m

response 23136590

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.54#
0.00	0.00	1.65#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:13 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1080126	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1280154	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1288106	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	17.98	TIC	26257782m	94.04042	ppb	100

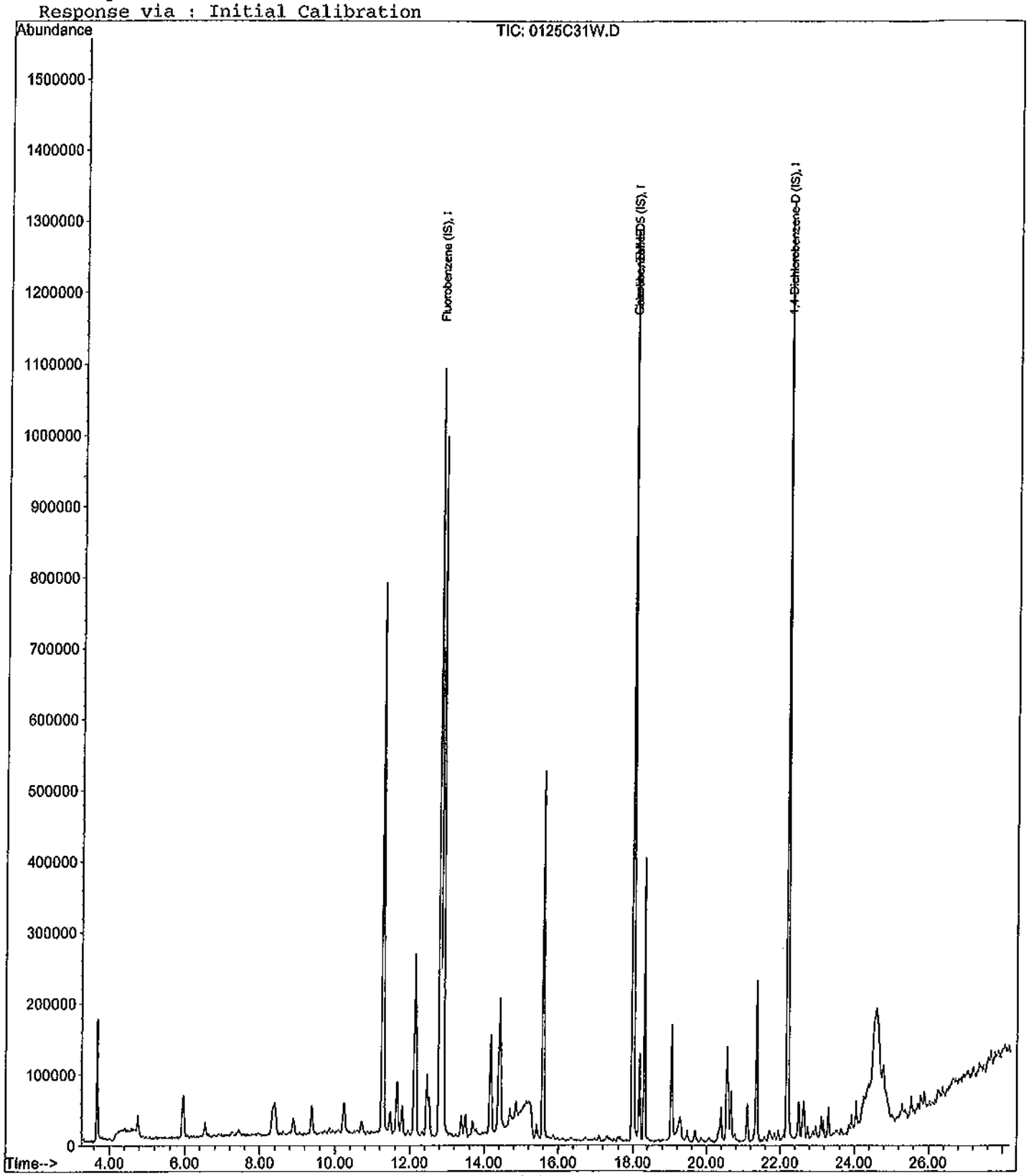
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:13 2012 Quant Results File: CGAS.RES

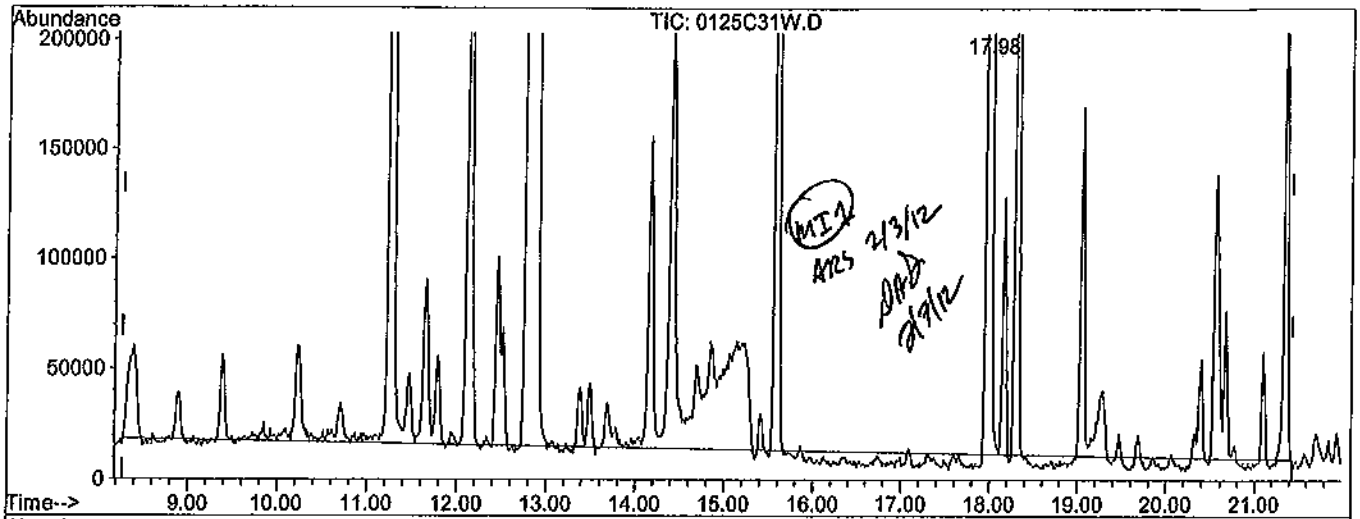
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

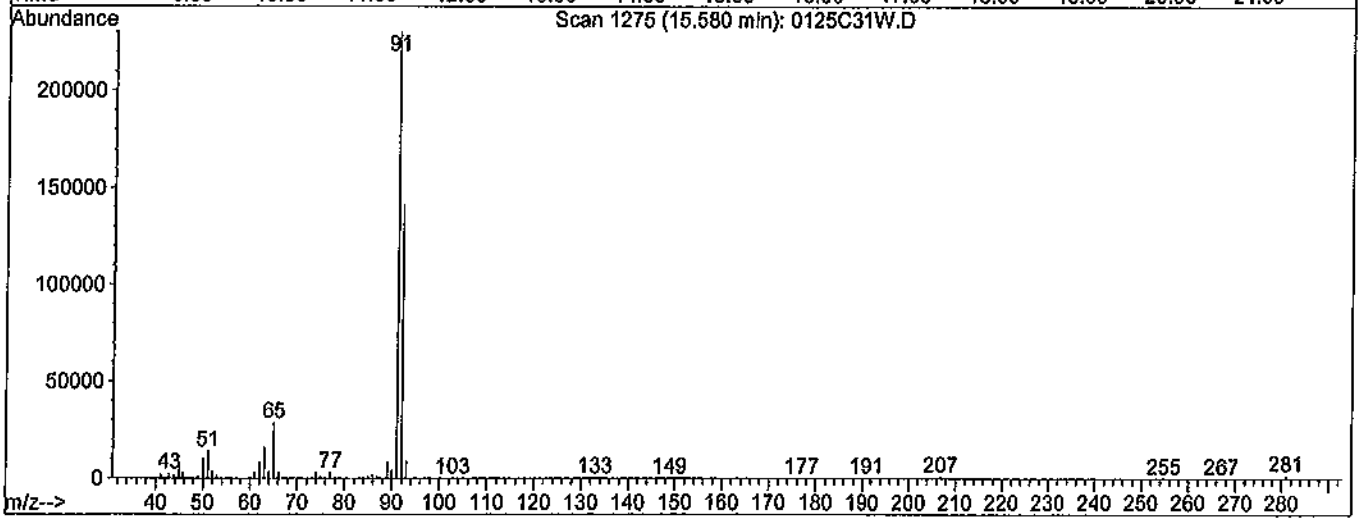


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C31W.D

(2) Gasoline (TMHB)

15.58min 27.4179ppb m

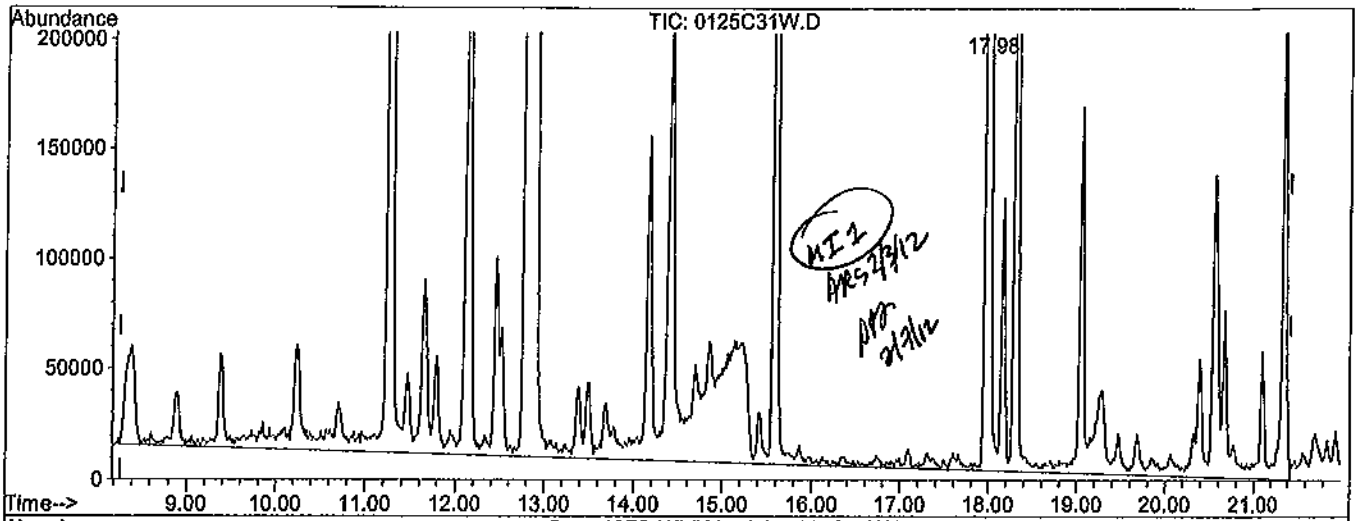
response 19945363

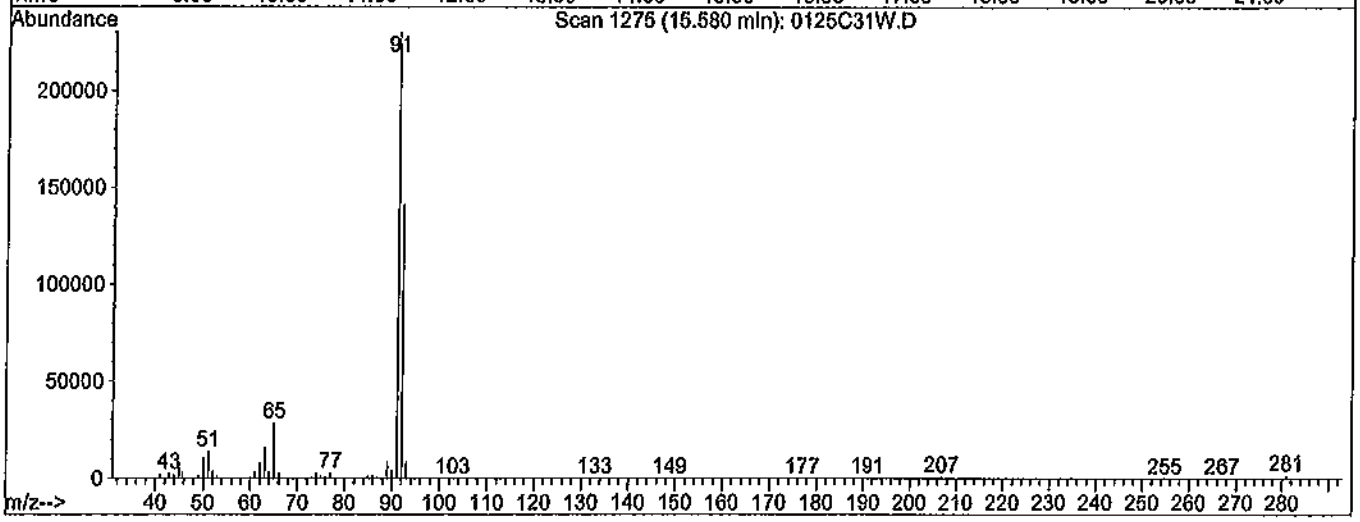
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.64#
0.00	0.00	1.85#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:13 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C31W.D

(2) Gasoline (TMHB)

17.98min 94.0404ppb m

response 26257782

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.48#
0.00	0.00	1.40#
0.00	0.00	0.00

0125C31W.D CGAS.M Fri Feb 03 12:14:27 2012

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:09 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1085223	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1323772	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1382634	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	46451061m	304.86153	ppb	100

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

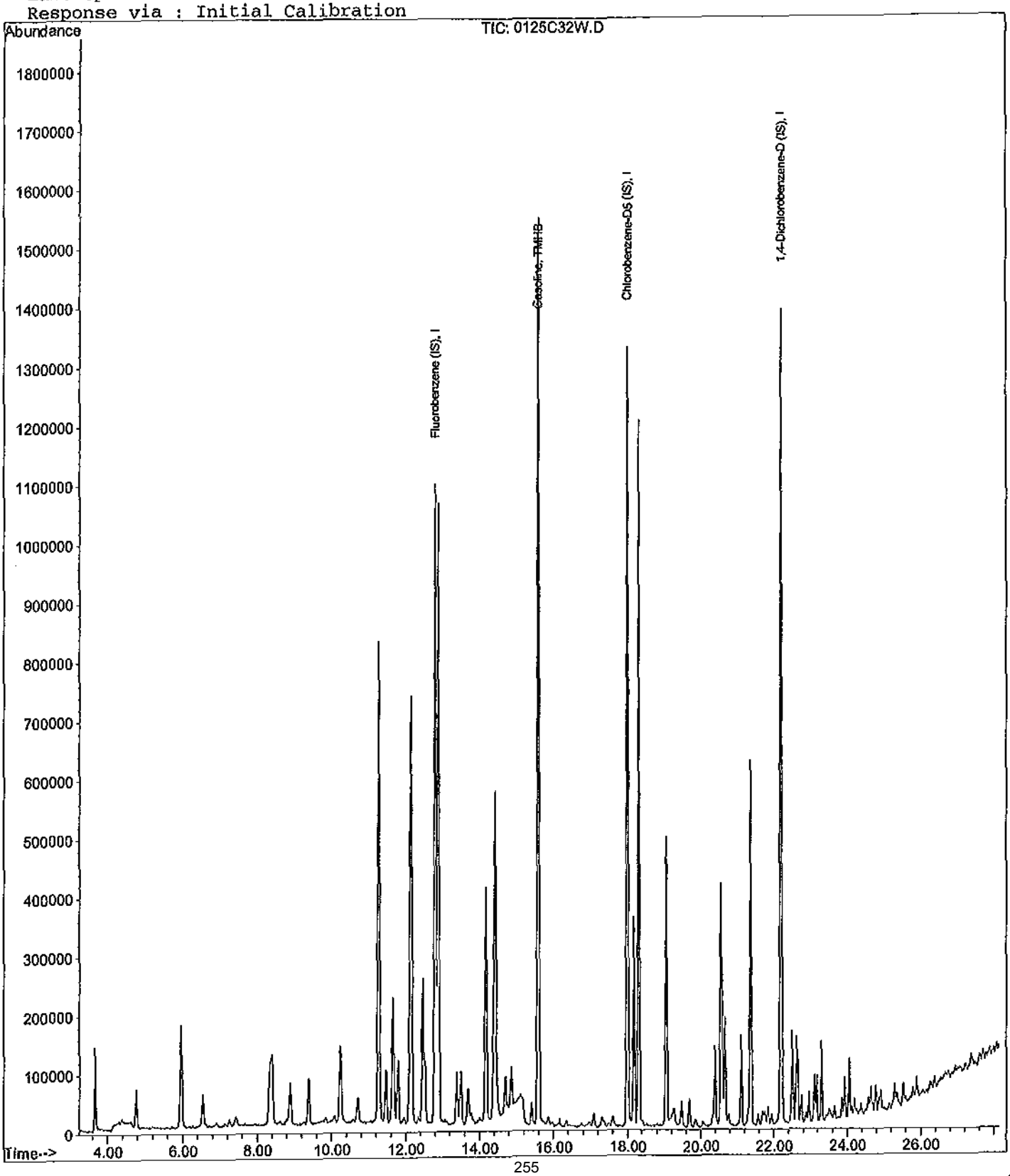
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D
Acq On : 26 Jan 12 21:24
Sample : Vol. Std. 01-26-12@300ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:09 2012 Quant Results File: CGAS.RES

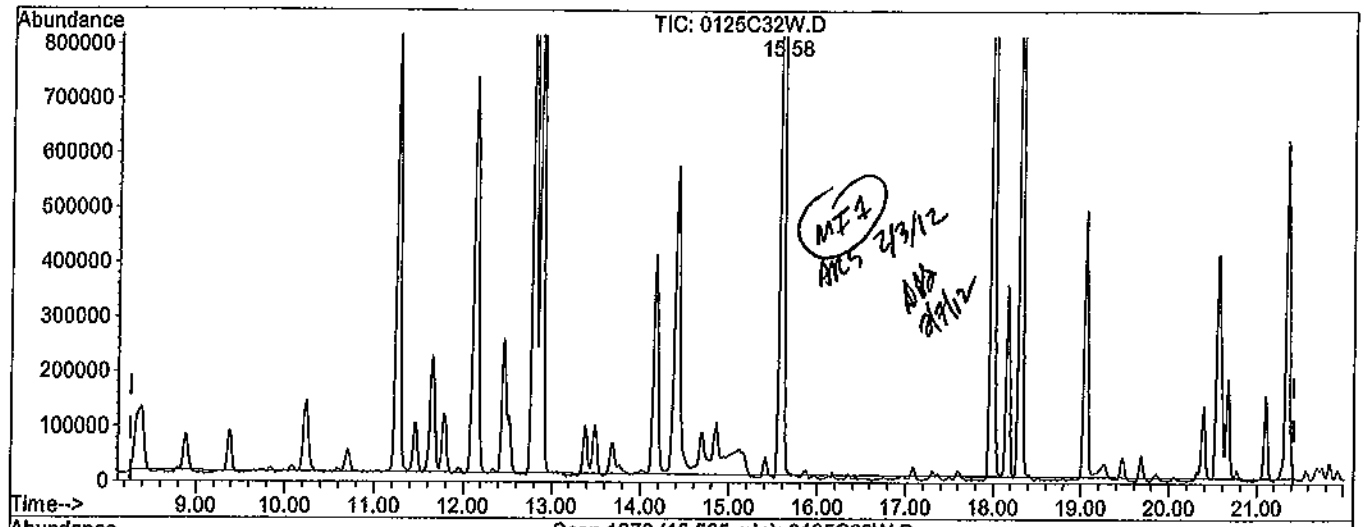
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

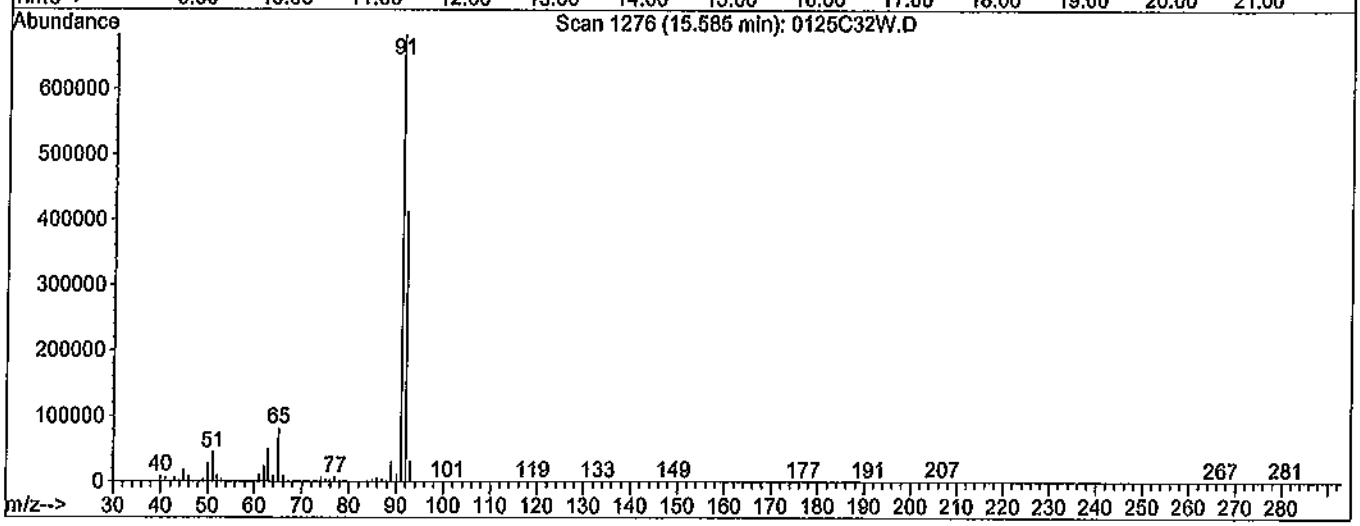


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C32W.D

(2) Gasoline (TMHB)

15.58min 245.6055ppb m

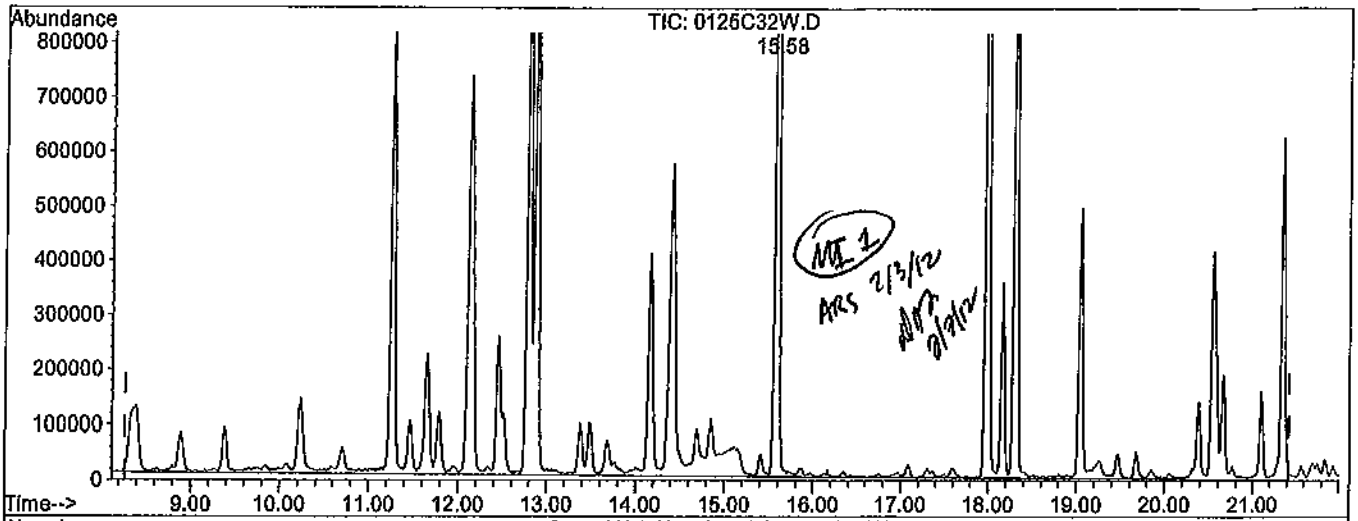
response 40810111

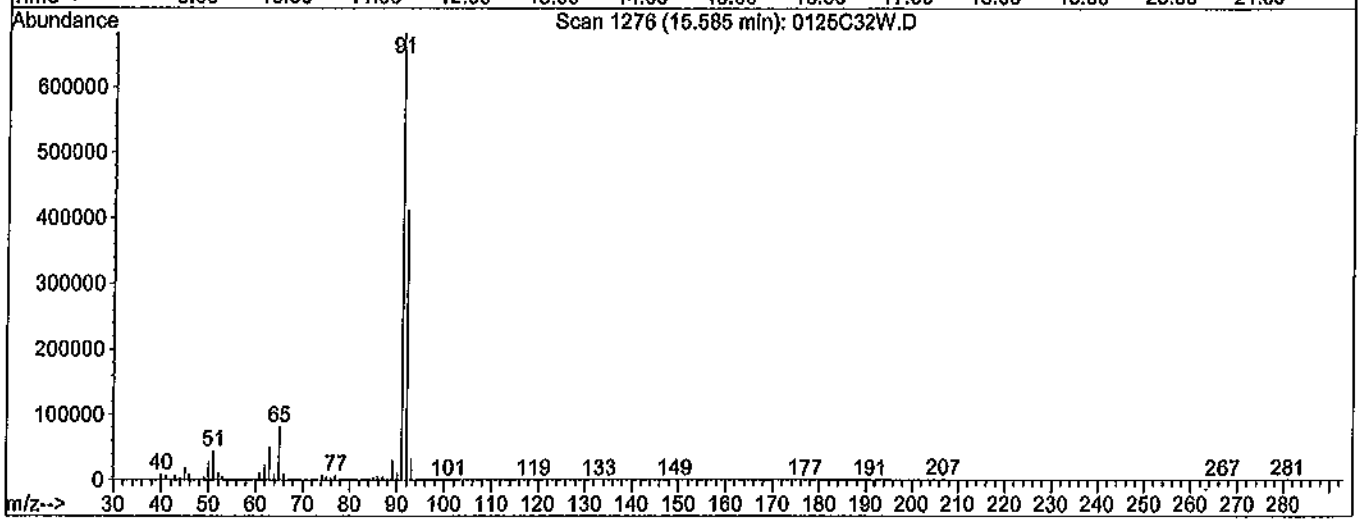
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.33#
0.00	0.00	0.94#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:09 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C32W.D

(2) Gasoline (TMHB)

15.58min 304.8615ppb m

response 46451061

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.29#
0.00	0.00	0.83#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:07 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1115516	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1310876	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.19	TIC	1420552	25.00000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline	15.58	TIC	72391801m	556.70838	ppb	100

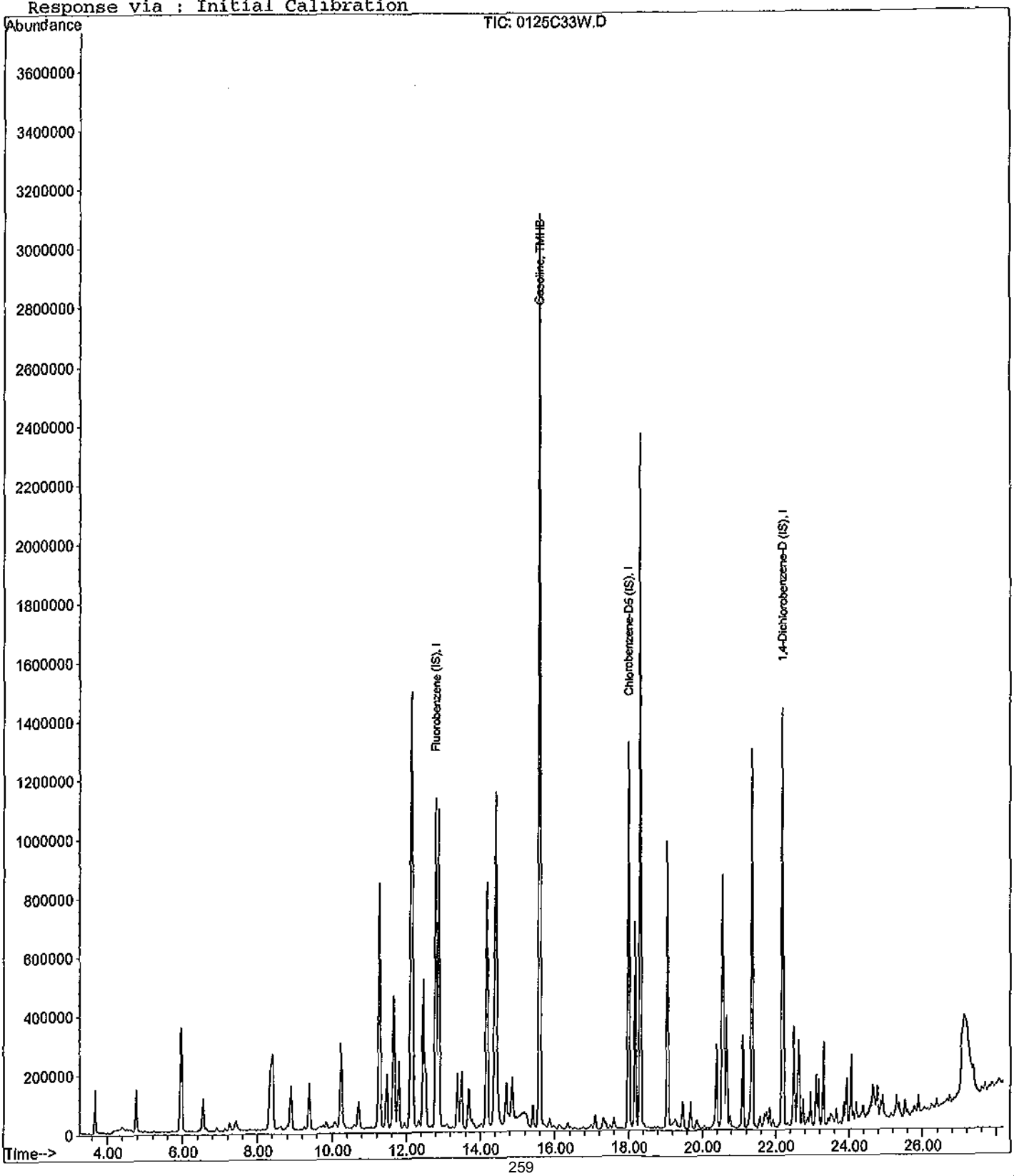
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:07 2012 Quant Results File: CGAS.RES

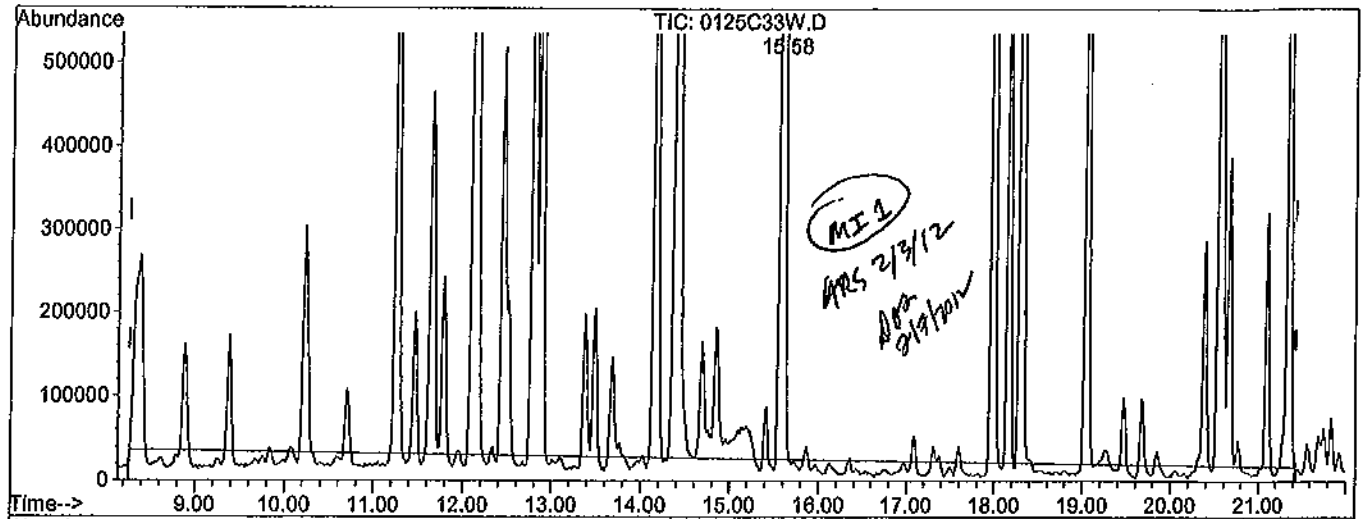
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

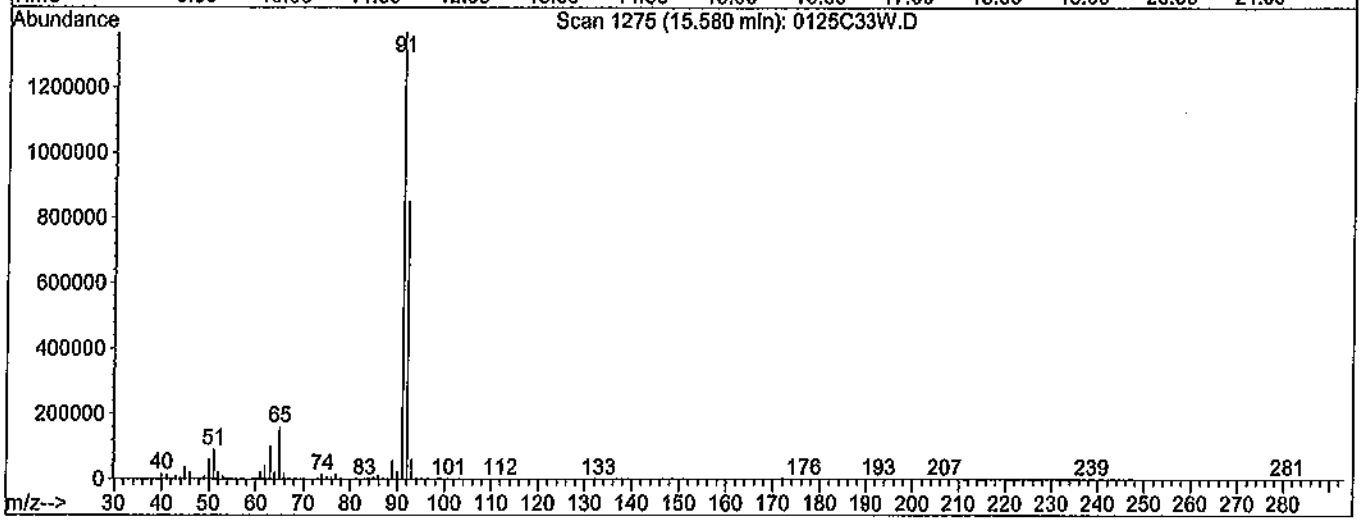


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C33W.D

(2) Gasoline (TMHB)

15.58min 556.7084ppb m

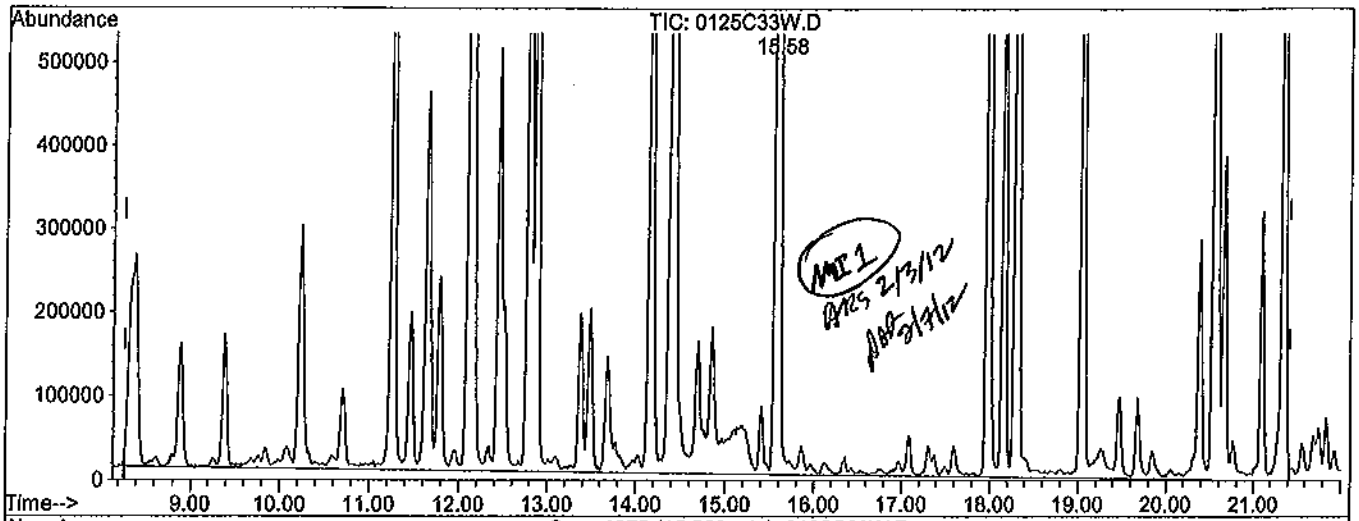
response 72391801

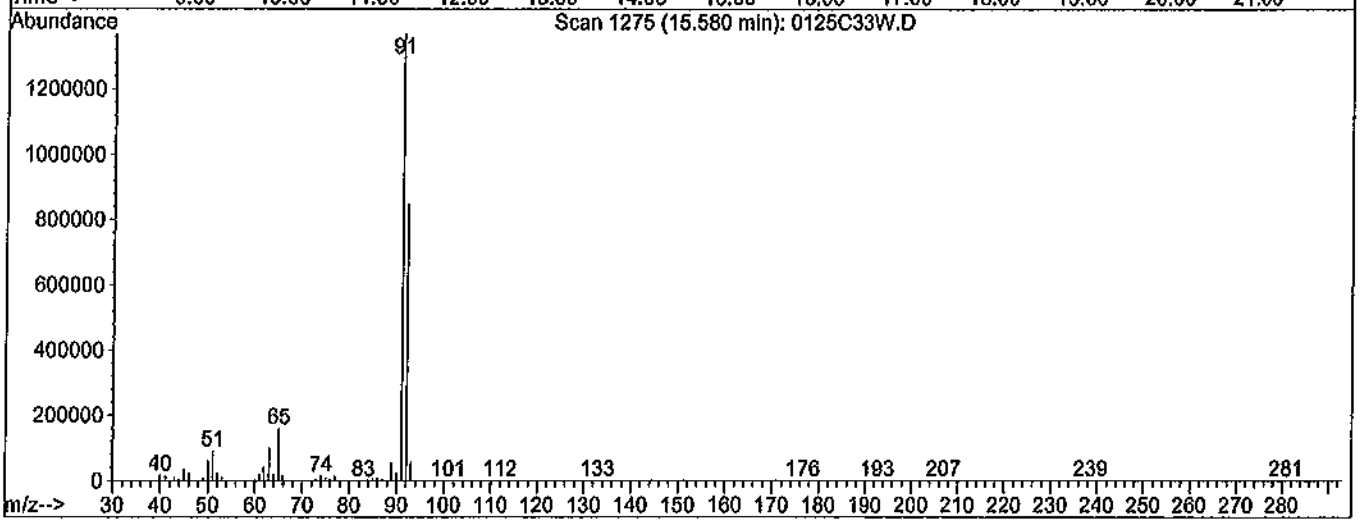
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.18#
0.00	0.00	0.53#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:16 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C33W.D

(2) Gasoline (TMHB)

15.58min 621.4121ppb m

response 78723288

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.16#
0.00	0.00	0.49#
0.00	0.00	0.00

0125C33W.D CGAS.M Fri Feb 03 12:16:32 2012

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:17 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1172096	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1436710	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1528793	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	102155823m	810.48263	ppb	100

(#) = qualifier out of range (m) = manual integration
0125C34W.D CGAS.M Fri Feb 03 12:19:41 2012 Page 1

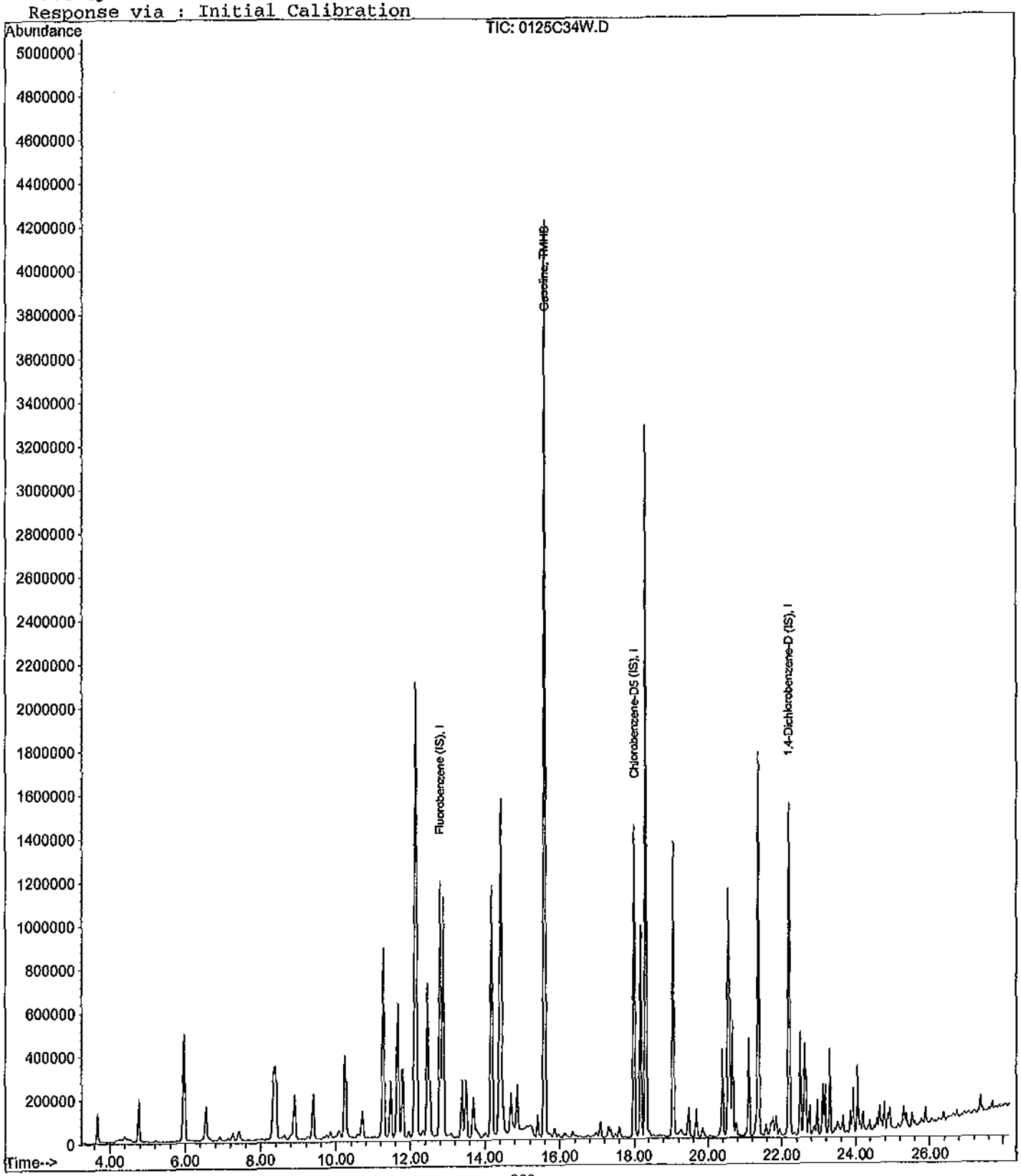
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D
Acq On : 26 Jan 12 22:38
Sample : Vol. Std. 01-26-12@800ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:17 2012 Quant Results File: CGAS.RES

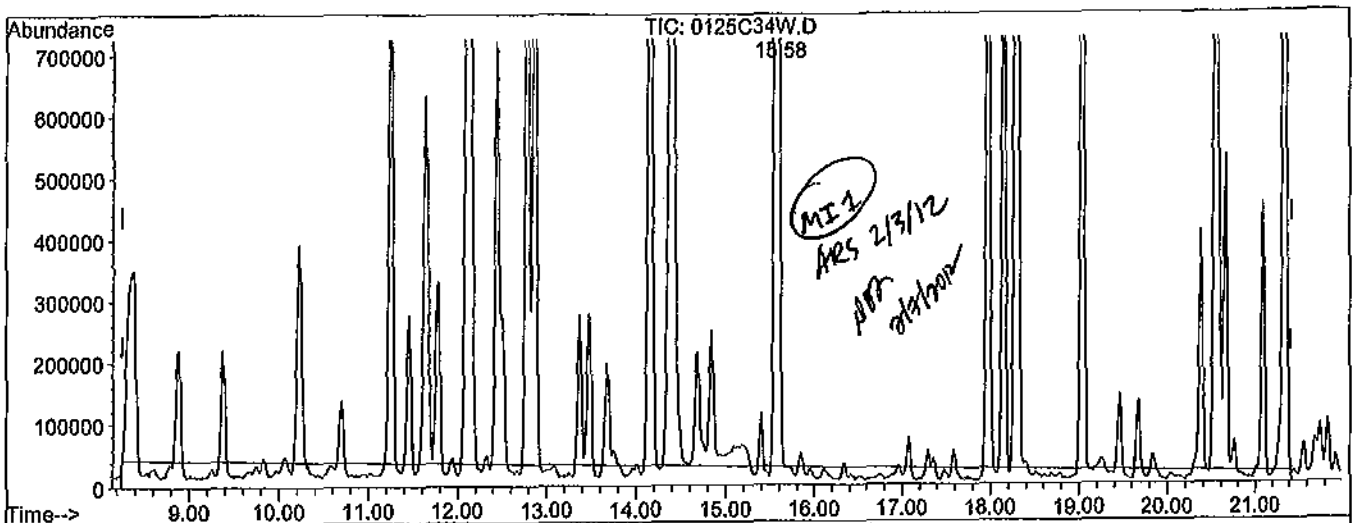
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

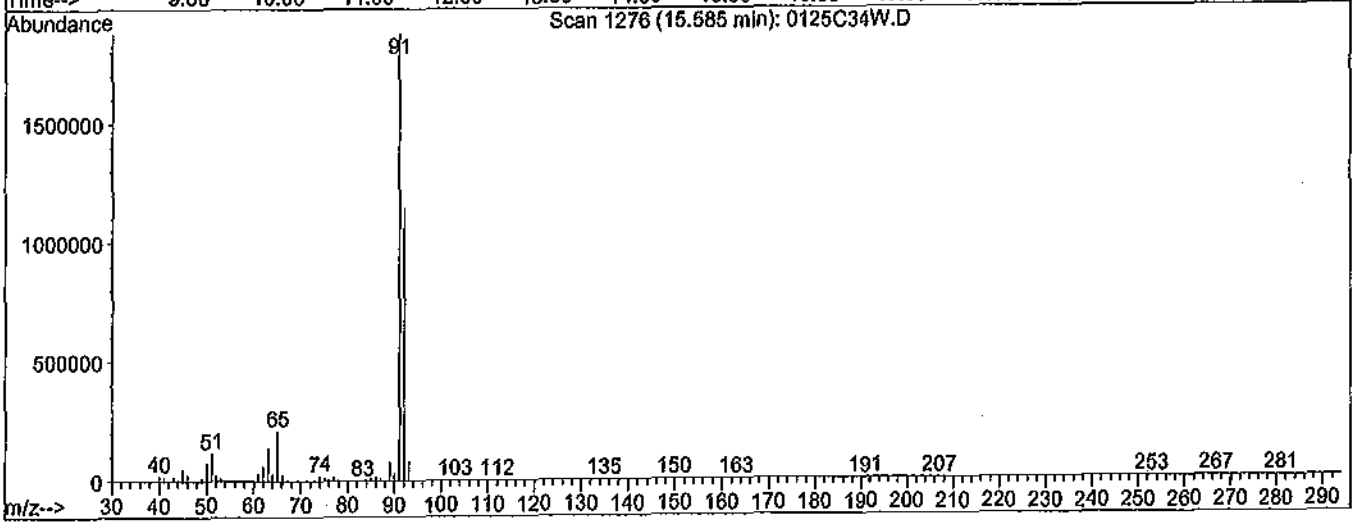


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C34W.D

(2) Gasoline (TMHB)

15.58min 730.0328ppb m

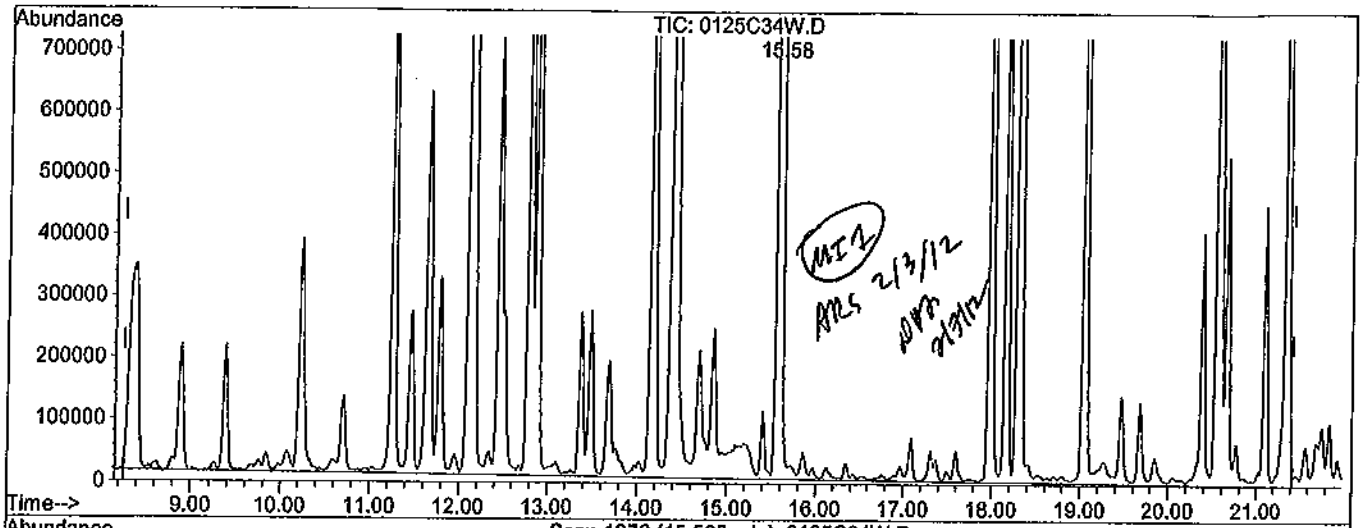
response 93884232

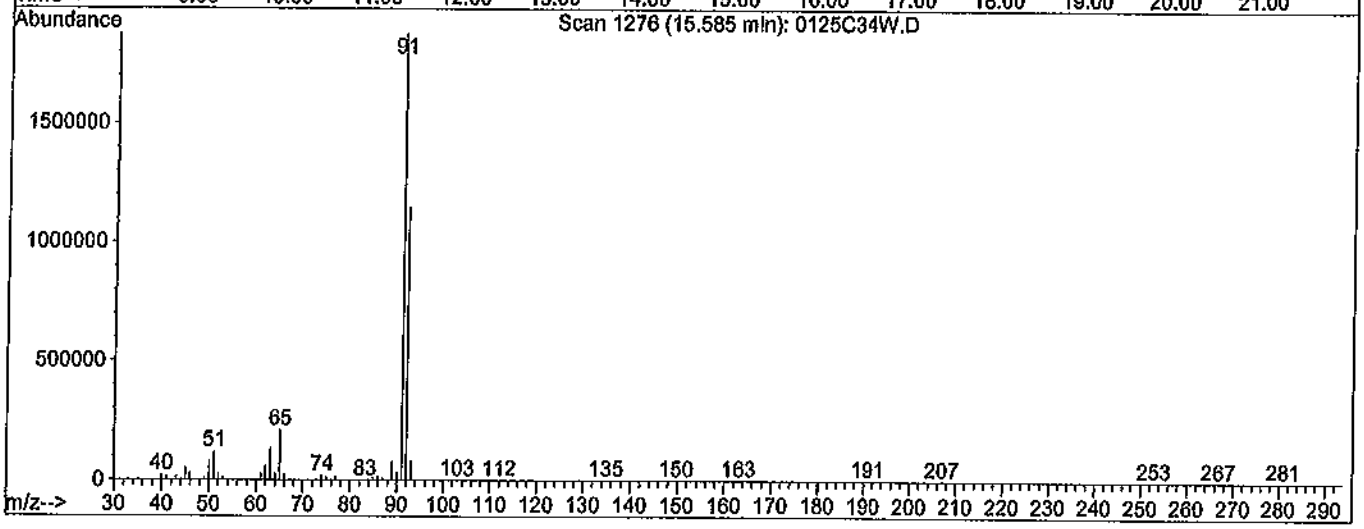
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.14#
0.00	0.00	0.44#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:17 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C34W.D

(2) Gasoline (TMHB)

15.58min 810.4826ppb m

response 102155823

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 (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:18 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1232092	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1442206	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1630956	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	129481006m	1014.92580	ppb	100

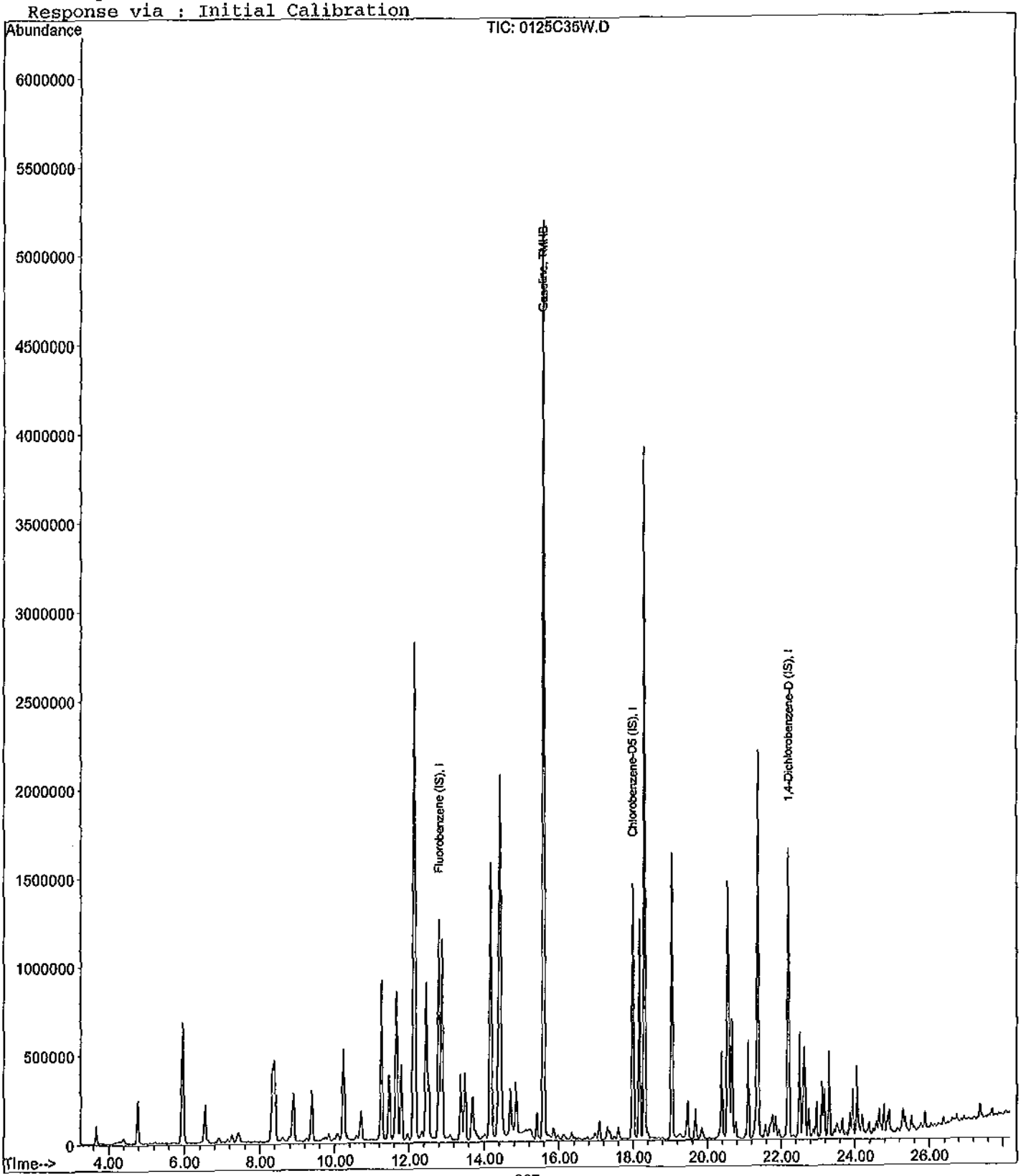
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:18 2012 Quant Results File: CGAS.RES

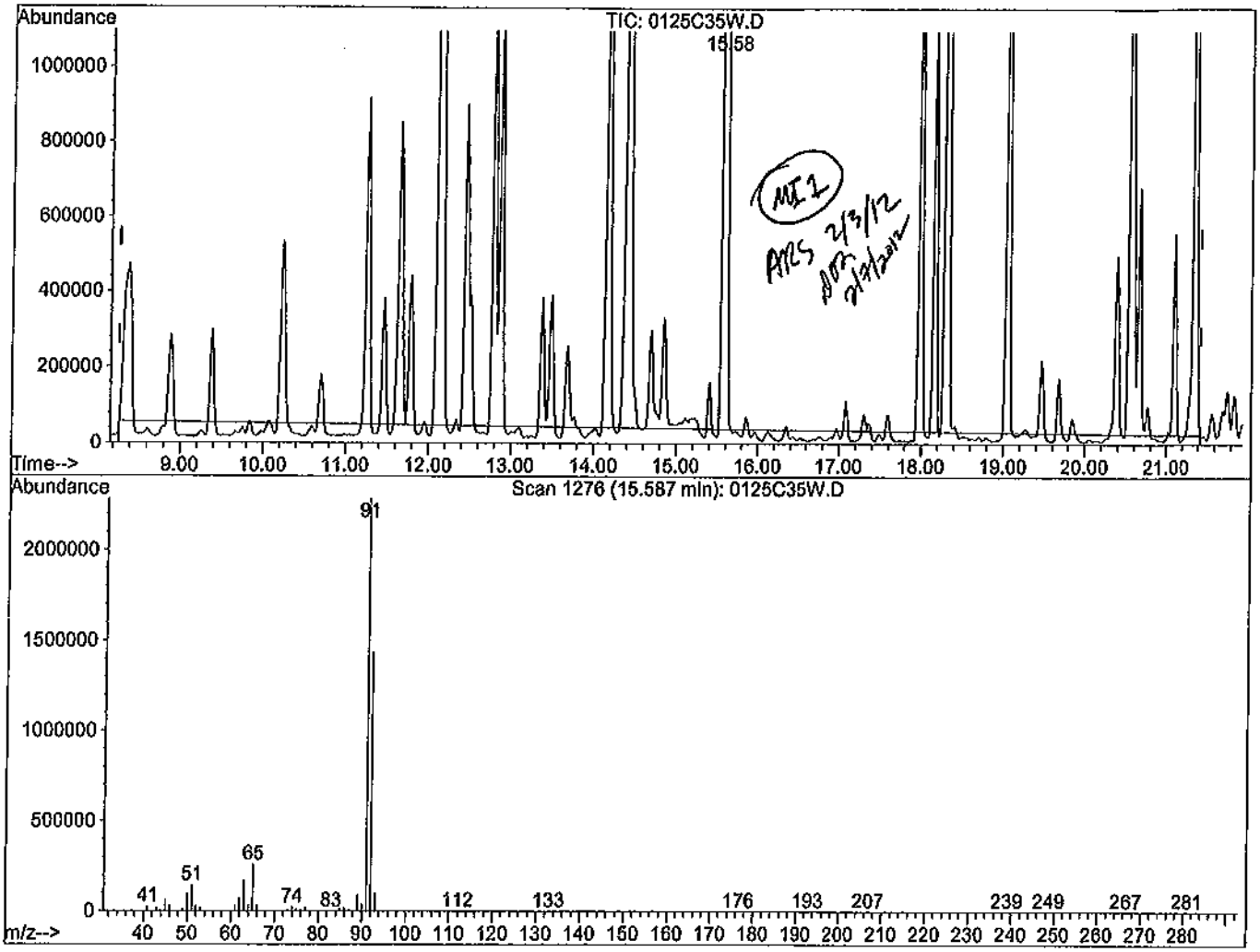
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



TIC: 0125C35W.D

(2) Gasoline (TMHB)

15.58min 923.0372ppb m

response 119549717

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.12#
0.00	0.00	0.35#
0.00	0.00	0.00

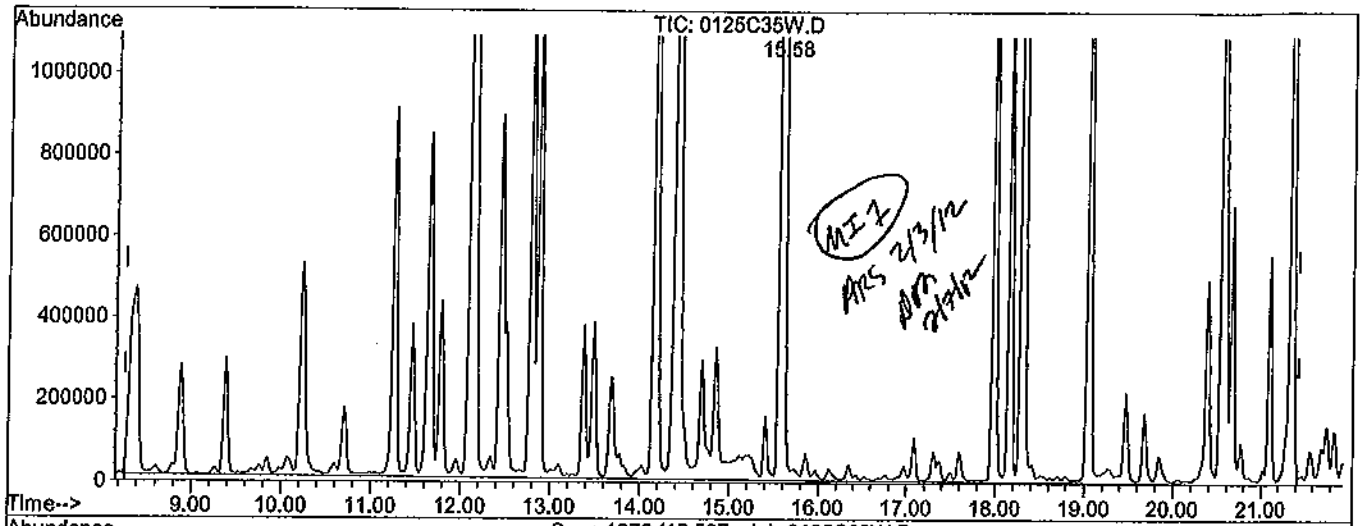
0125C35W.D CGAS.M Fri Feb 03 12:17:55 2012

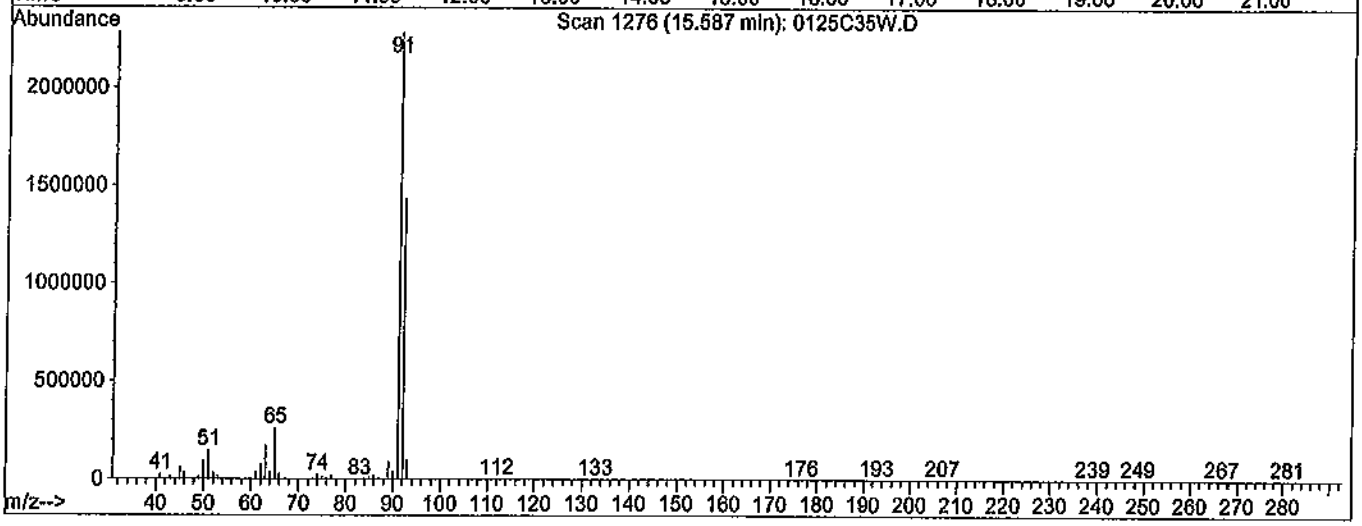
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D
Acq On : 26 Jan 12 23:15
Sample : Vol. Std. 01-26-12@1000ug/L
Misc : Water 10mLw/ IS:12-06-11
Quant Time: Feb 3 12:18 2012

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00
Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C35W.D

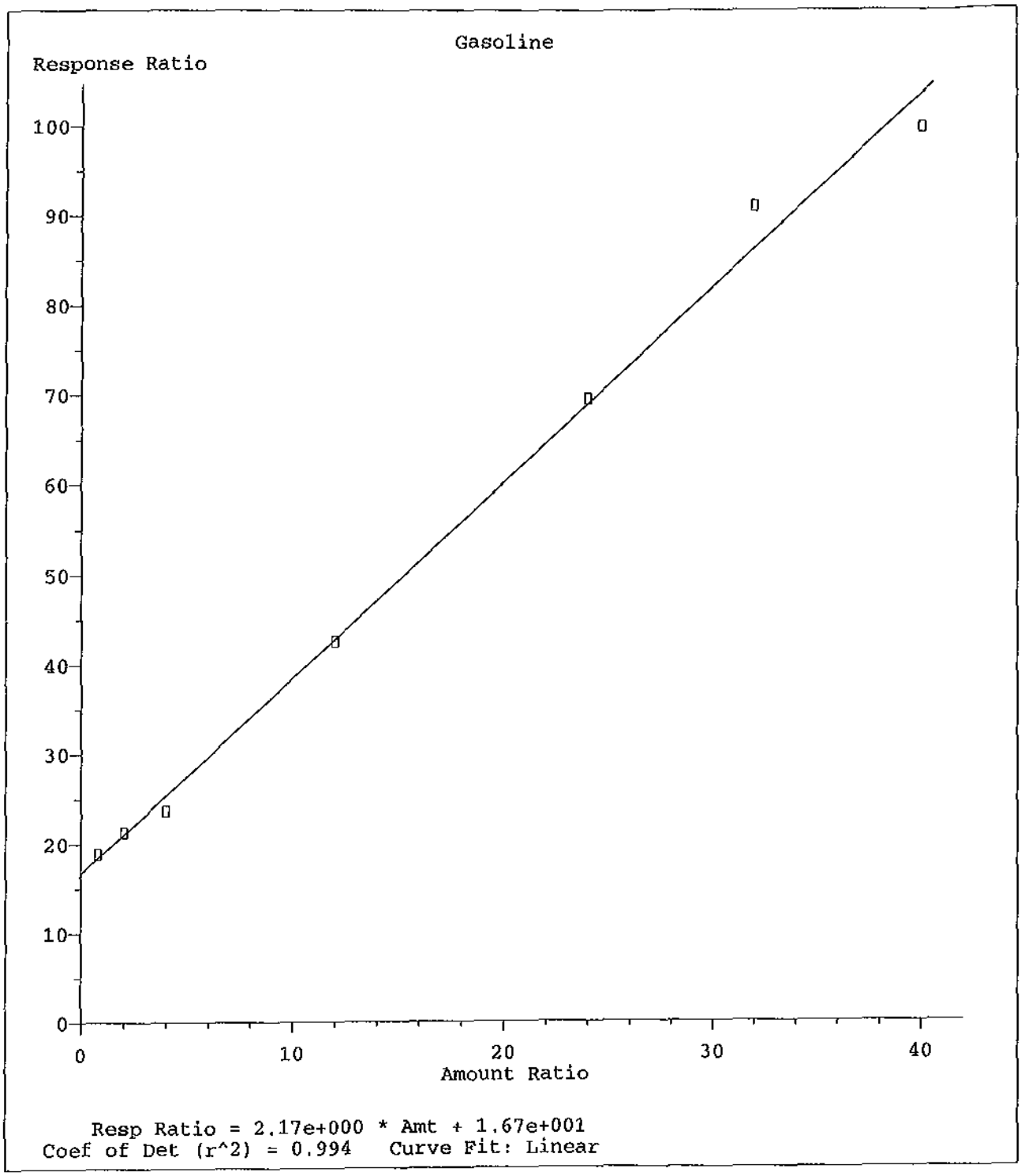
(2) Gasoline (TMHB)

15.58min 1014.9258ppb m

response 129481006

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.11#
0.00	0.00	0.33#
0.00	0.00	0.00

0125C35W.D CGAS.M Fri Feb 03 12:18:11 2012



Method Name: M:\CHICO\DATA\C120125\CGAS.M
Calibration Table Last Updated: Tue Feb 07 09:36:43 2012

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66864
Date Analyzed: 01/27/12
Instrument: Chico
Initial Cal. Date: 01/25/12
Data File: 0125C38W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline	7.410	3.556	52	TMHBL	0.36
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
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33							
34							
35							
36							
37							
38							
39							
40							
		Average			52.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:37 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1138336	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1375303	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1433410	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	48578324m	298.92978	ppb	100

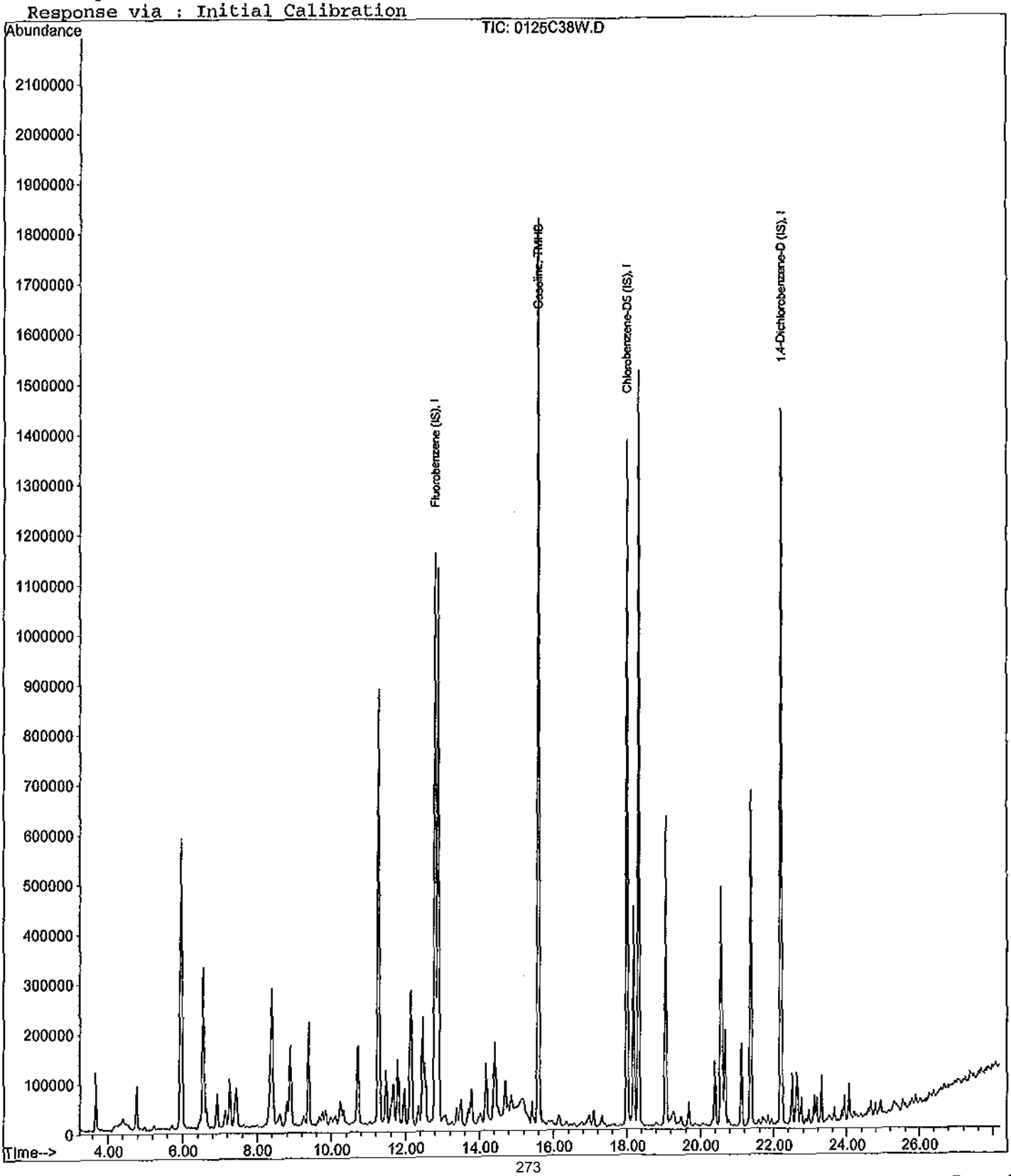
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:37 2012 Quant Results File: CGAS.RES

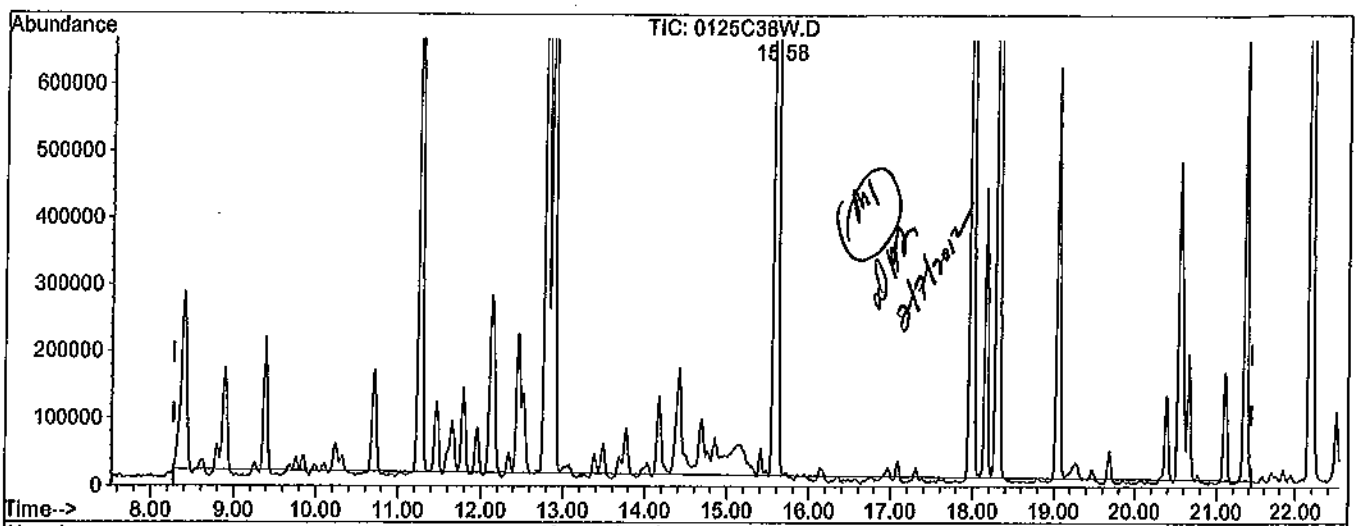
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

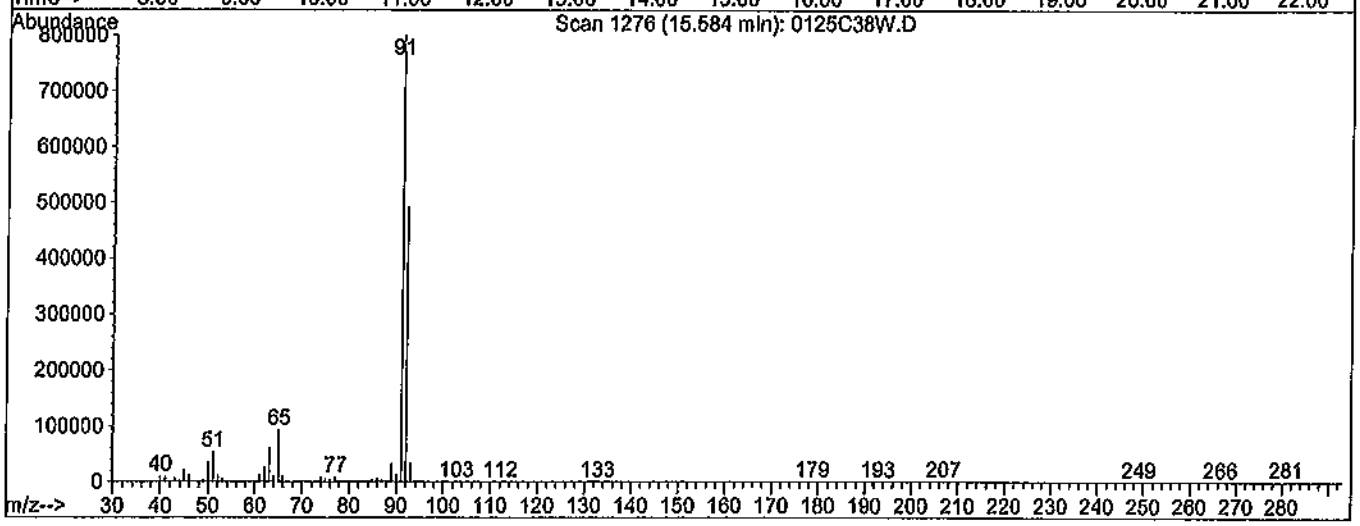


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:37 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0125C38W.D

(2) Gasoline (TMHB)

15.58min 202.8575ppb m

response 39074056

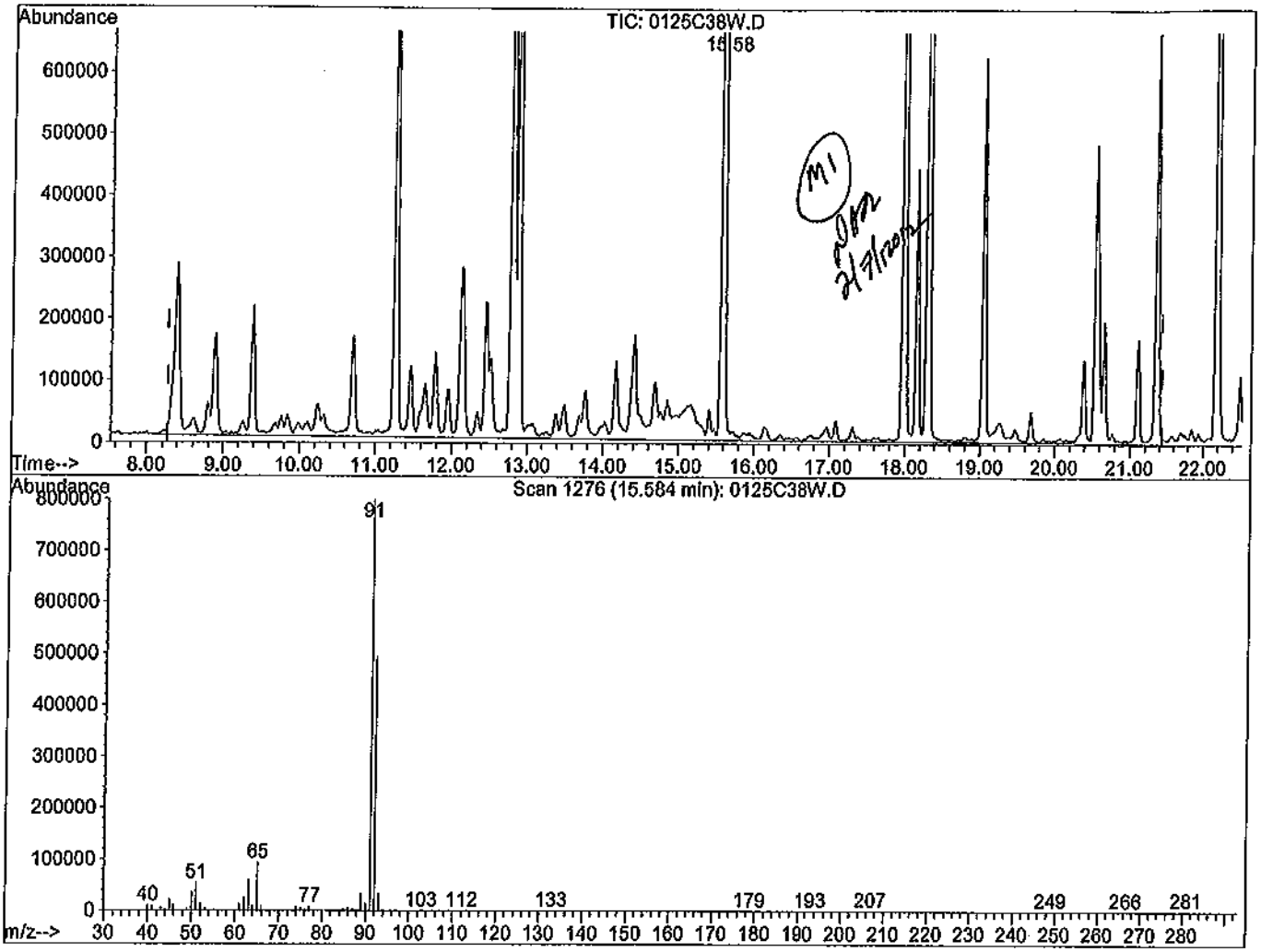
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.34#
0.00	0.00	1.04#
0.00	0.00	0.00

0125C38W.D CGAS.M Tue Feb 07 09:37:23 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:37 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0125C38W.D

(2) Gasoline (TMHB)

15.58min 298.9298ppb m

response 48578324

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.28#
0.00	0.00	0.84#
0.00	0.00	0.00

0125C38W.D CGAS.M Tue Feb 07 09:37:34 2012

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66864
Date Analyzed: 3 Feb 12 13:48
Instrument: Chico
Initial Cal. Date: 02/02/12
Data File: 0203C07W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline	7.410	3.507	53	TMHBL	2.6
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
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31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			53.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C07W.D Vial: 1
Acq On : 3 Feb 12 13:48 Operator: RS, ARS
Sample : GAS CCV 300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:09 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.82	TIC	1178844	25.00000	ppb	0.03
3) Chlorobenzene-D5 (IS)	18.00	TIC	1149881	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.20	TIC	1180733	25.00000	ppb	0.02

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.60	TIC	49610878m	292.13497	ppb	100

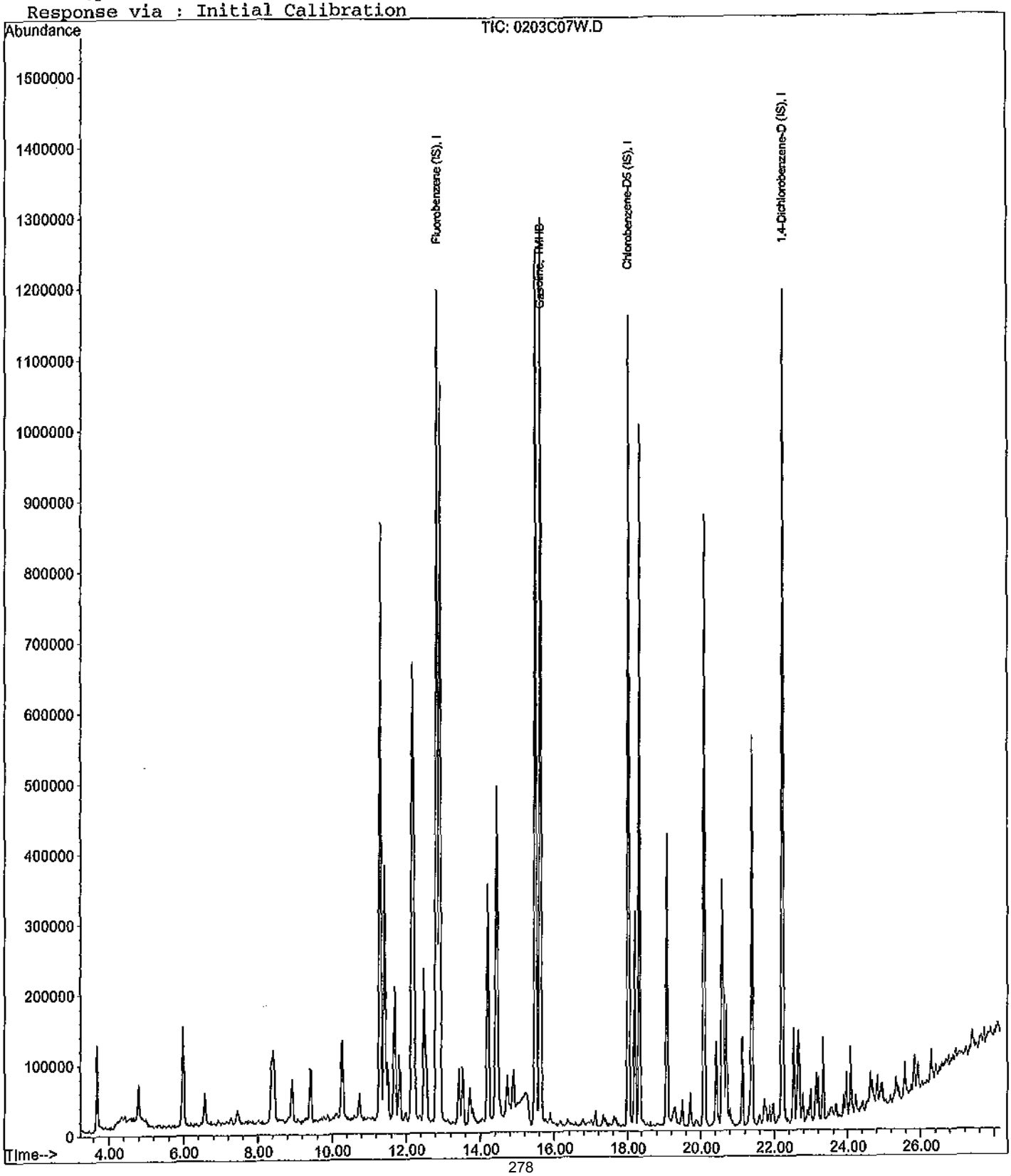
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C07W.D Vial: 1
Acq On : 3 Feb 12 13:48 Operator: RS, ARS
Sample : GAS CCV 300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:09 2012 Quant Results File: CGAS.RES

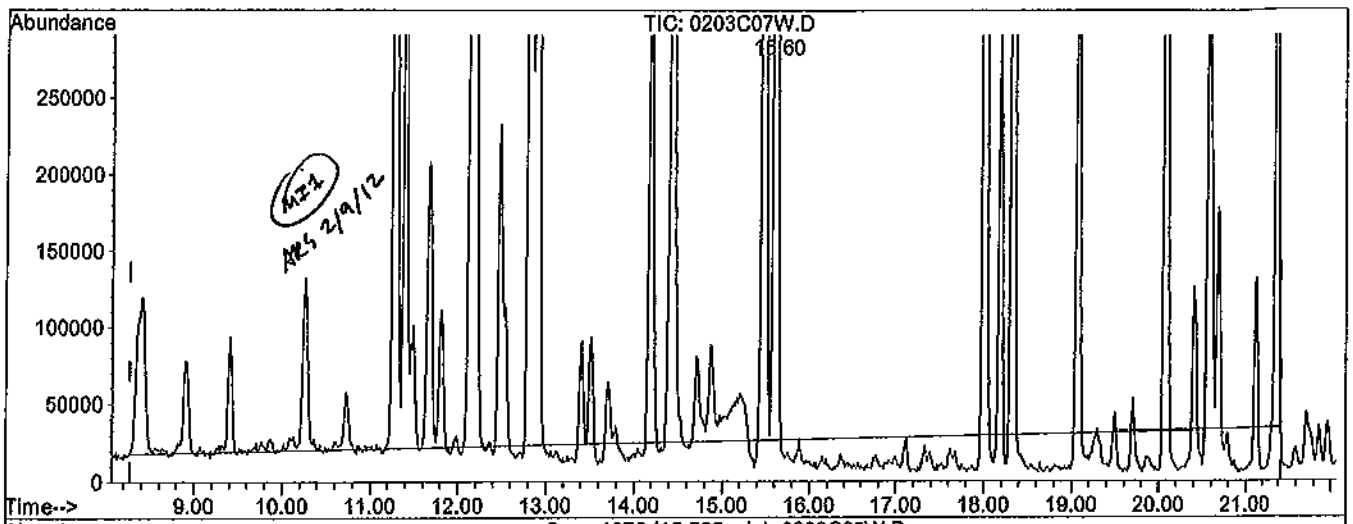
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

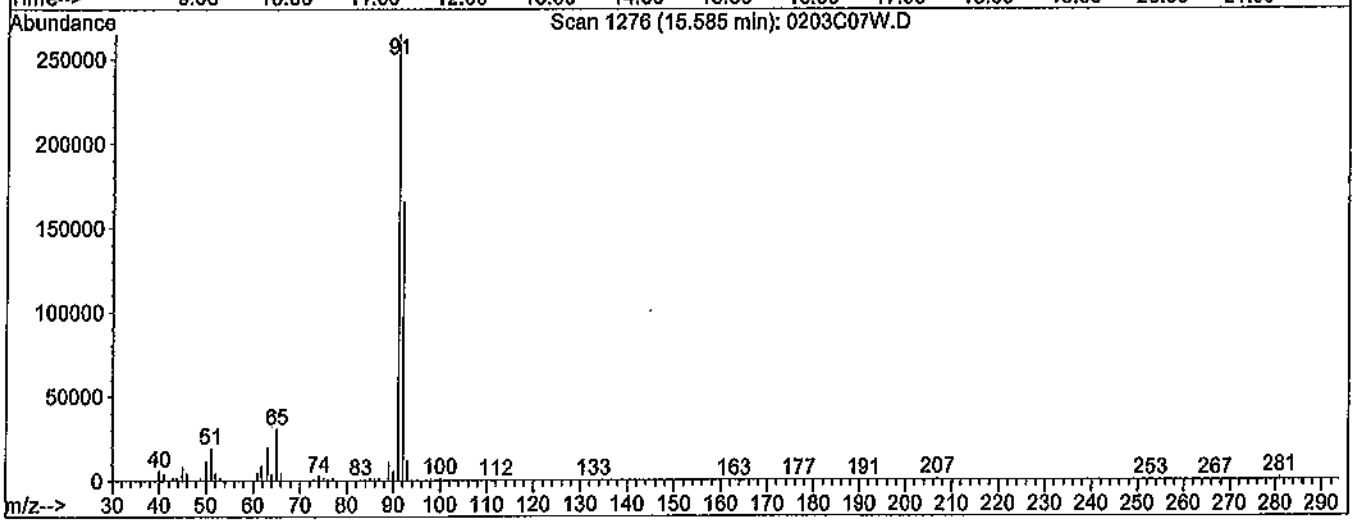


Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C07W.D Vial: 1
Acq On : 3 Feb 12 13:48 Operator: RS, ARS
Sample : GAS CCV 300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:08 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0203C07W.D

(2) Gasoline (TMHB)

15.58min 238.7541ppb m

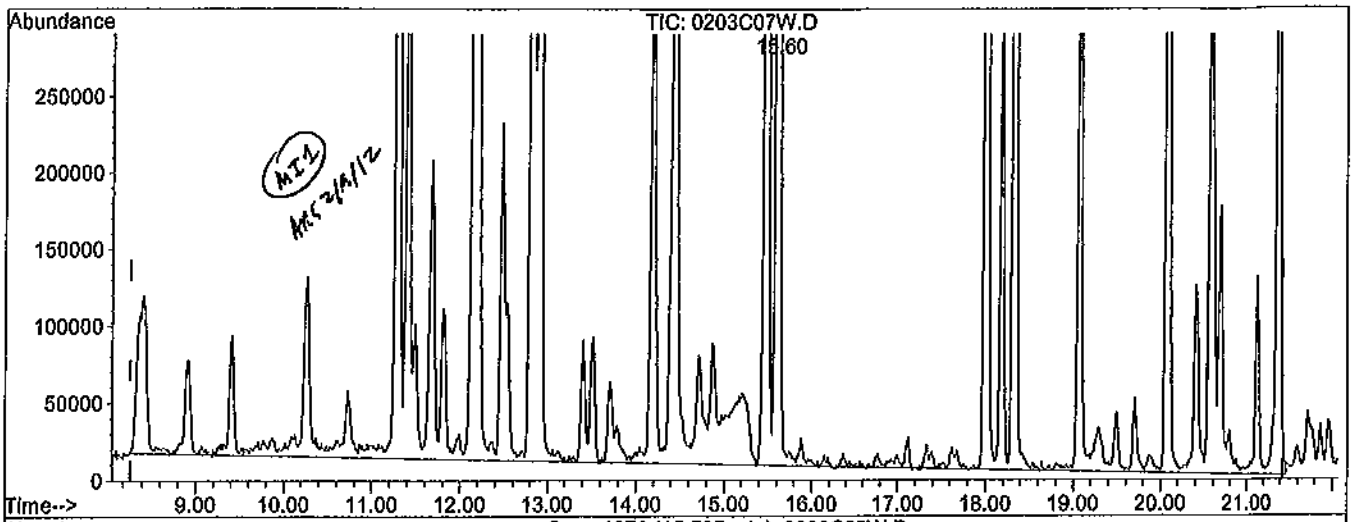
response 44142079

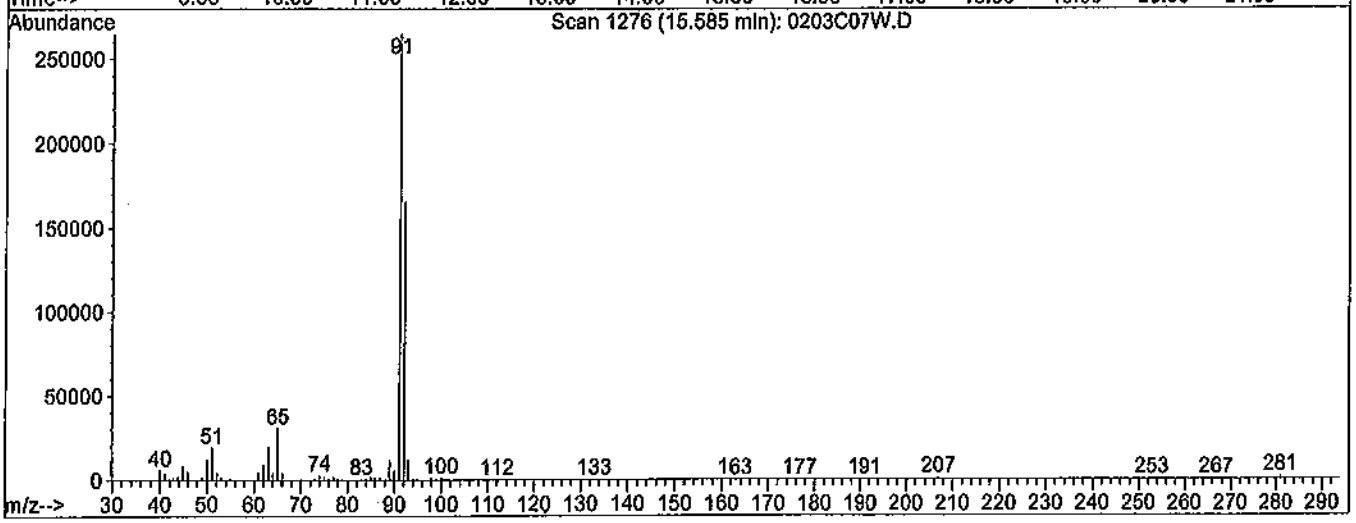
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.26#
0.00	0.00	0.76#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C07W.D Vial: 1
Acq On : 3 Feb 12 13:48 Operator: RS, ARS
Sample : GAS CCV 300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:09 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0203C07W.D

(2) Gasoline (TMHB)

15.60min 292.1350ppb m

response 49610878

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.23#
0.00	0.00	0.68#
0.00	0.00	0.00

0203C07W.D CGAS.M Thu Feb 09 11:09:32 2012

EPA METHOD 8260B
Volatile Organic Compounds
Raw Data

APPL, INC.

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120203W-54074 - 163650**
Batch ID: #86RHB-120203AC

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	02/03/12	02/03/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	02/03/12	02/03/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/03/12	02/03/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	02/03/12	02/03/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	02/03/12	02/03/12
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	02/03/12	02/03/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/03/12	02/03/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	02/03/12	02/03/12
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	02/03/12	02/03/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	02/03/12	02/03/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	02/03/12	02/03/12
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	02/03/12	02/03/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	02/03/12	02/03/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	02/03/12	02/03/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	02/03/12	02/03/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	02/03/12	02/03/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	02/03/12	02/03/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	02/03/12	02/03/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	02/03/12	02/03/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	02/03/12	02/03/12
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	02/03/12	02/03/12

Quant Method: CALLW.M
Run #: 0203C12
Instrument: Chico
Sequence: C120202
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/09/12 12:00:39 PM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120203W-54074 - 163650**
Batch ID: #86RHB-120203AC

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	02/03/12	02/03/12
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	02/03/12	02/03/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	02/03/12	02/03/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	02/03/12	02/03/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/03/12	02/03/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	02/03/12	02/03/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	02/03/12	02/03/12
BLANK	SURROGATE: 1,2-DICHLOROET	103	70-120			%	02/03/12	02/03/12
BLANK	SURROGATE: 4-BROMOFLUORO	93.8	75-120			%	02/03/12	02/03/12
BLANK	SURROGATE: DIBROMOFLUOR	95.8	85-115			%	02/03/12	02/03/12
BLANK	SURROGATE: TOLUENE-D8 (S)	88.6	85-120			%	02/03/12	02/03/12

Quant Method: CALLW.M
Run #: 0203C12
Instrument: Chico
Sequence: C120202
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/09/12 12:00:39 PM

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C12W.D Vial: 1
Acq On : 3 Feb 12 16:54 Operator: RS, ARS
Sample : 120203A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 17:22 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 14:10:38 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.82	96	543201	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	18.01	117	395072	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.21	152	196224	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.40	111	315458	21.50773 ppb	0.00
Spiked Amount 22.441			Recovery =	95.841%	
37) 1,2-DCA-D4(S)	12.21	65	231192	22.33567 ppb	0.00
Spiked Amount 21.710			Recovery =	102.883%	
55) Toluene-D8(S)	15.48	98	1255679	21.28734 ppb	0.00
Spiked Amount 24.025			Recovery =	88.605%	
63) 4-Bromofluorobenzene(S)	20.08	95	478649	24.29732 ppb	0.00
Spiked Amount 25.909			Recovery =	93.777%	
Target Compounds					Qvalue
25) Vinyl Acetate	9.40	43	1778	0.32636 ppb NT#	83

ARS 2/6/12

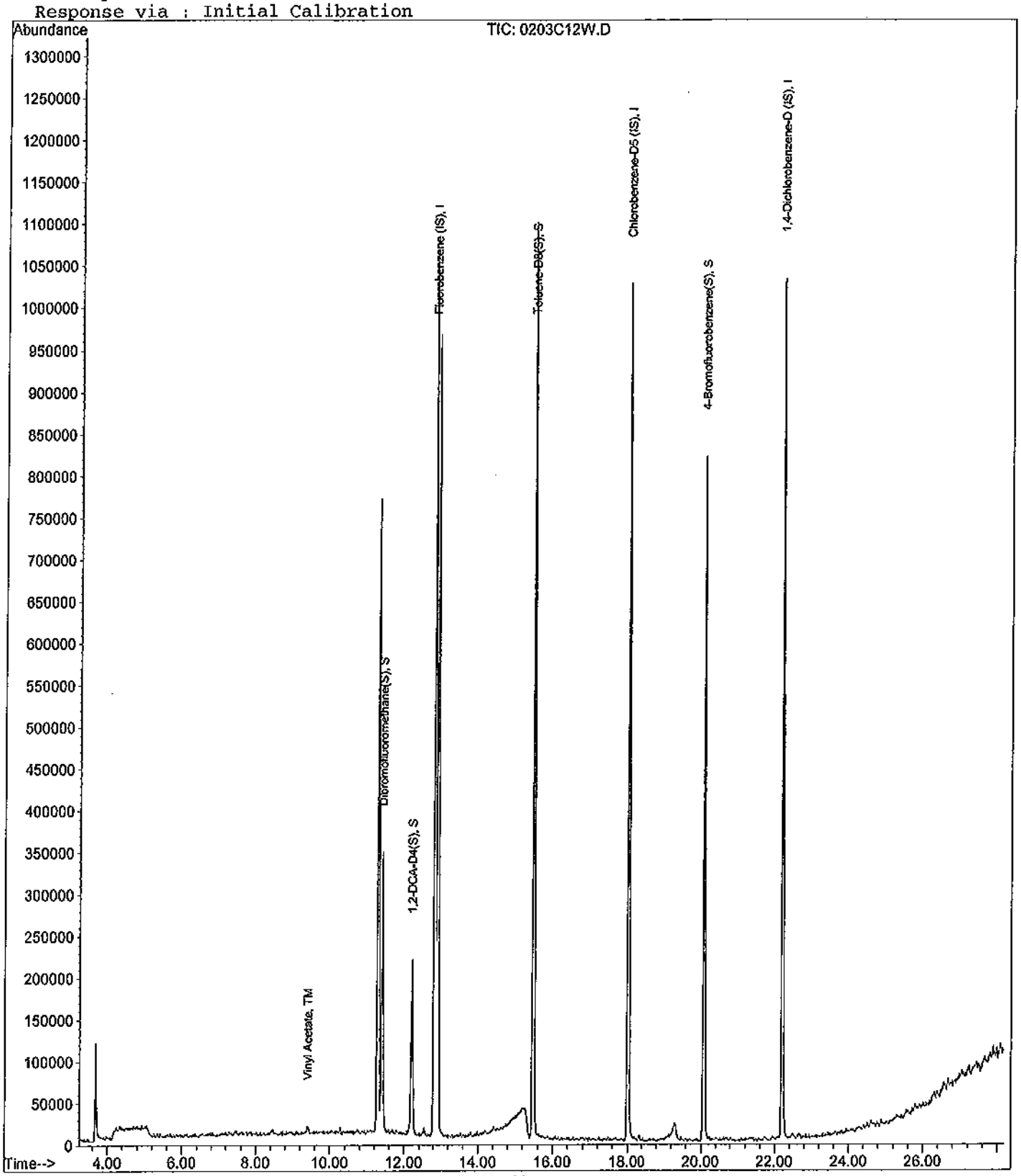
(#) = qualifier out of range (m) = manual integration

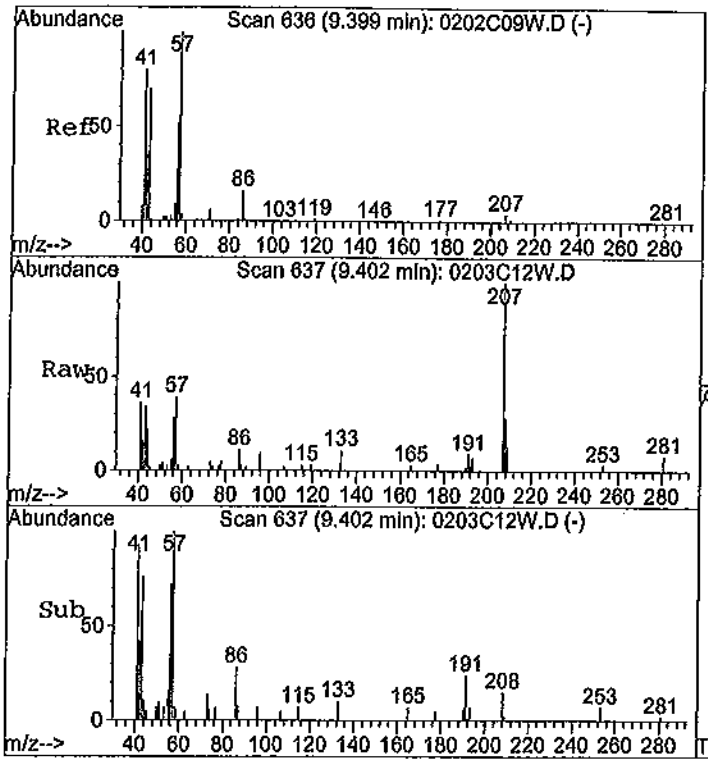
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C12W.D Vial: 1
Acq On : 3 Feb 12 16:54 Operator: RS, ARS
Sample : 120203A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 17:22 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration

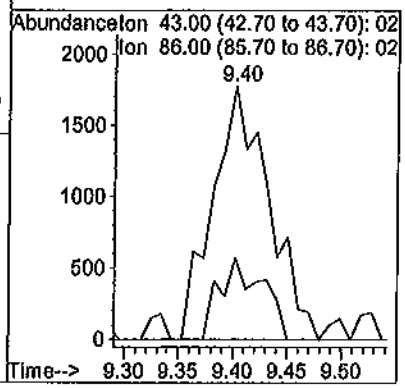




#25
Vinyl Acetate
Concen: 0.32636 ppb
RT: 9.40 min Scan# 637
Delta R.T. 0.00 min
Lab File: 0203C12W.D
Acq: 3 Feb 12 16:54

Tgt Ion: 43 Resp: 1778

Ion	Ratio	Lower	Upper
43	100		
86	32.1	16.5	30.7#



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C12W.D Vial: 1
Acq On : 3 Feb 12 16:54 Operator: RS, ARS
Sample : 120203A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:11 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.82	TIC	1053076	25.00000	ppb	0.03
3) Chlorobenzene-D5 (IS)	18.01	TIC	1023955	25.00000	ppb	0.03
4) 1,4-Dichlorobenzene-D (IS)	22.21	TIC	1026154	25.00000	ppb	0.03

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.48	TIC	22112083m	49.49689	ppb	ND 100

No Gasoline Pattern
ARS 2/9/12

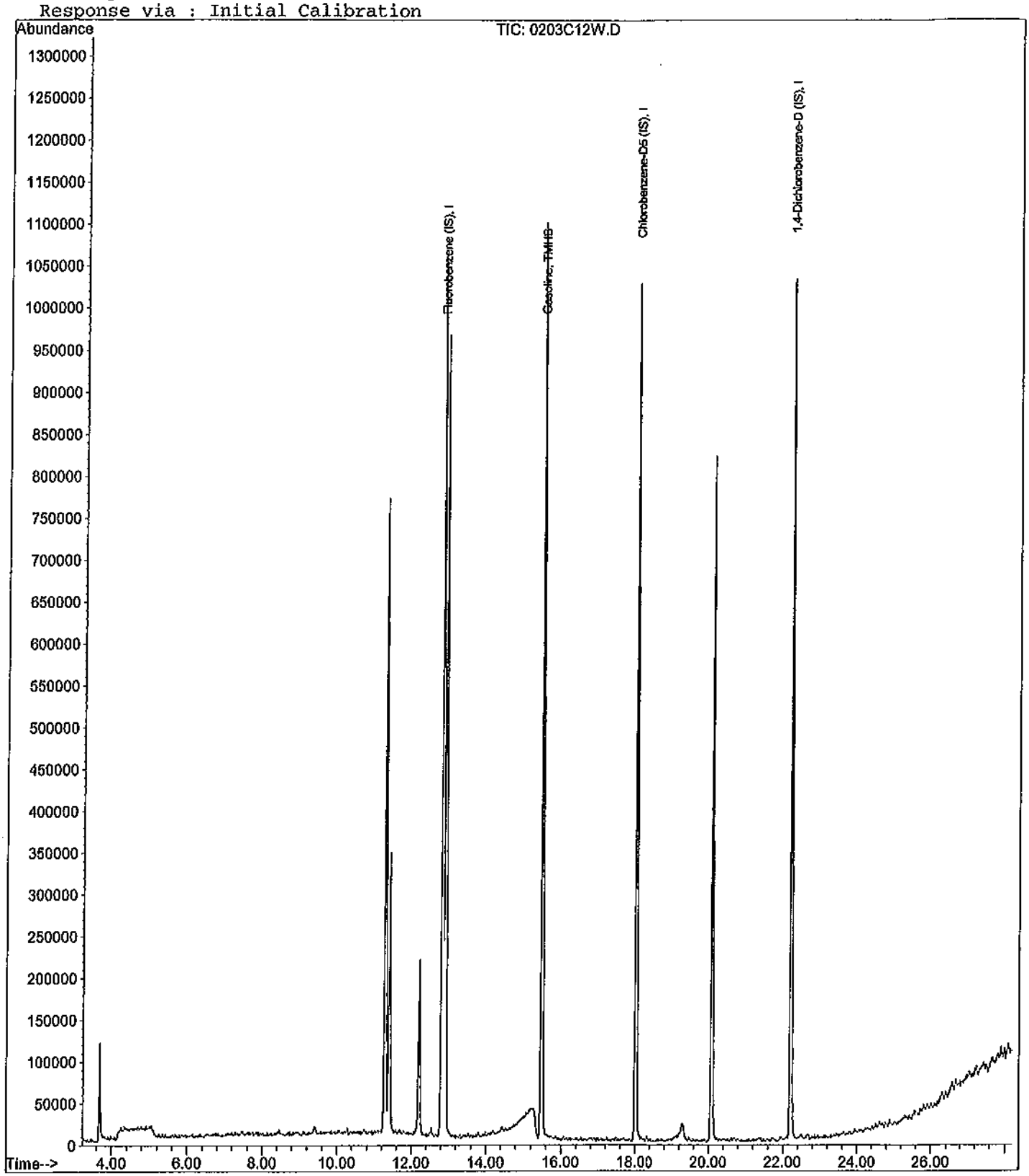
(#) = qualifier out of range (m) = manual integration
0203C12W.D CGAS.M Thu Feb 09 11:17:00 2012 Page 1

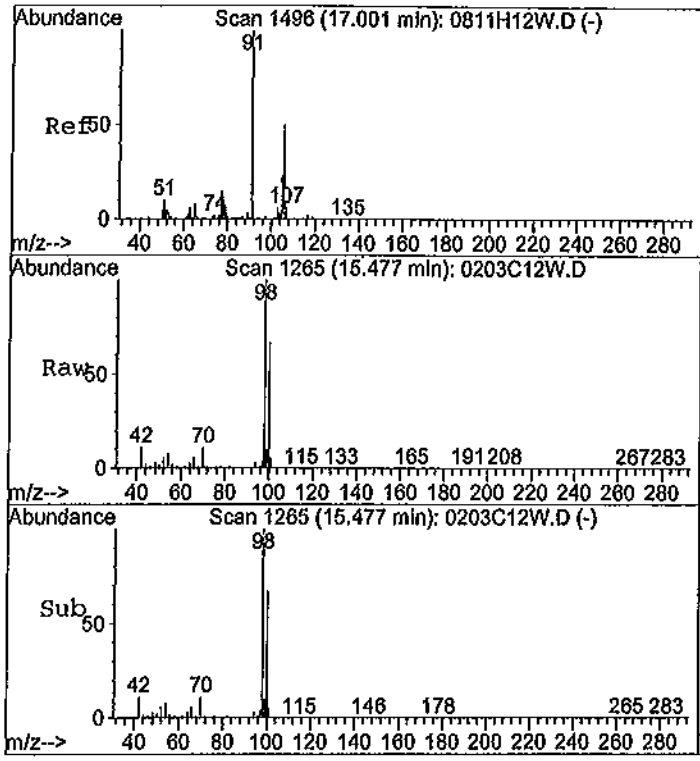
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C12W.D Vial: 1
Acq On : 3 Feb 12 16:54 Operator: RS, ARS
Sample : 120203A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:11 2012 Quant Results File: CGAS.RES

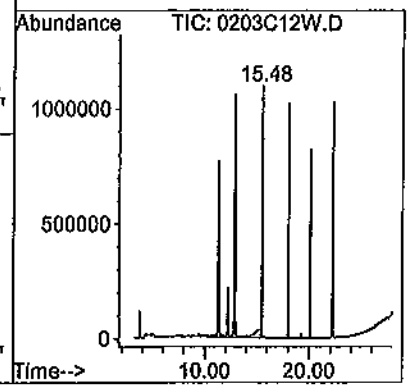
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration





#2
Gasoline
Concen: 49.49689 ppb m
RT: 15.48 min Scan# 1265
Delta R.T. -0.11 min
Lab File: 0203C12W.D
Acq: 3 Feb 12 16:54

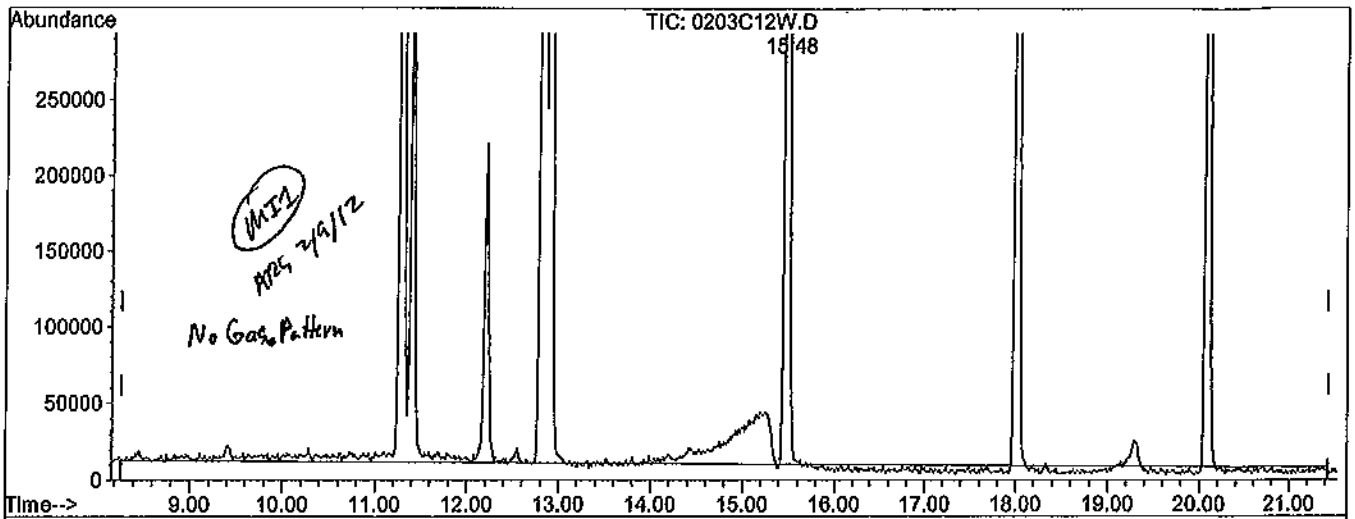
Tgt Ion:TIC Resp:22112083

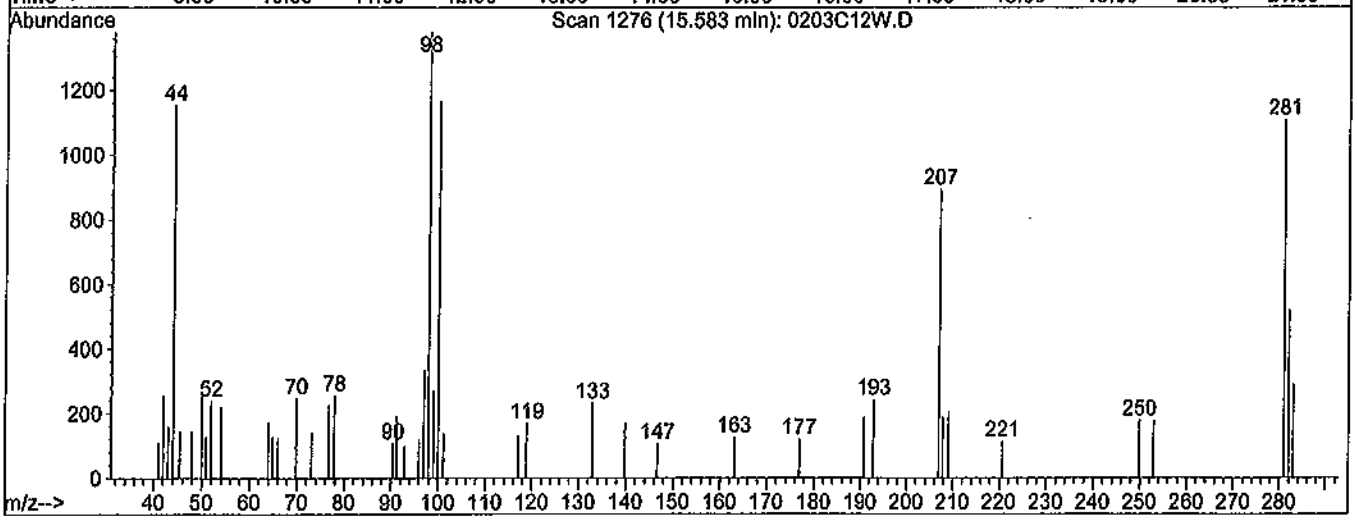


Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C12W.D Vial: 1
Acq On : 3 Feb 12 16:54 Operator: RS, ARS
Sample : 120203A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:08 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0203C12W.D

(2) Gasoline (TMHB)

15.58min -6.5952ppb m

response 16978604

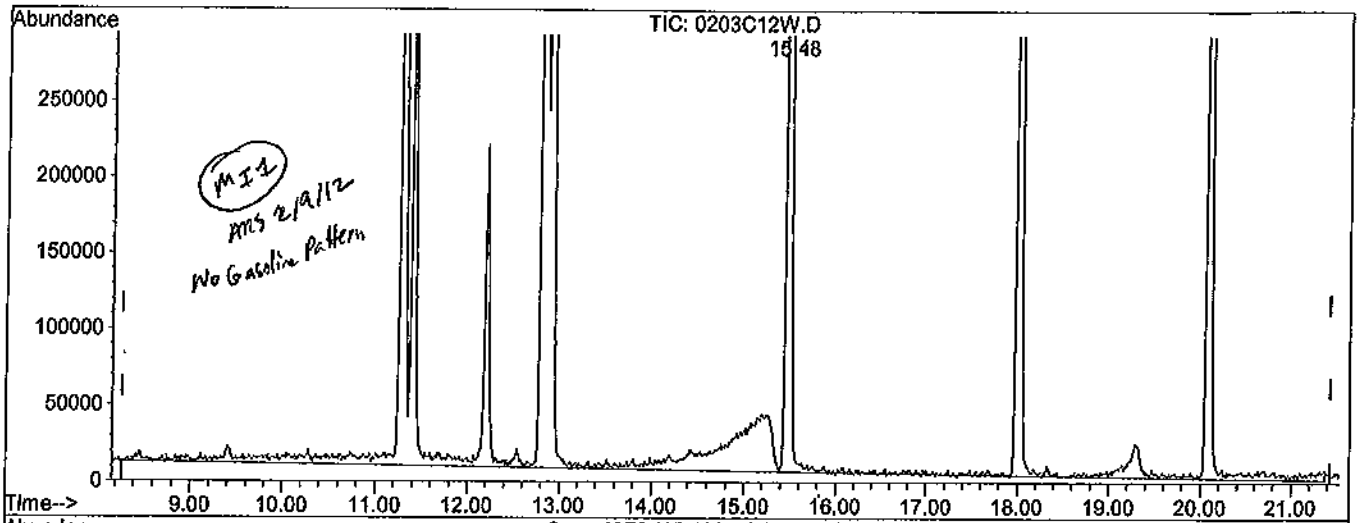
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.60#
0.00	0.00	1.80#
0.00	0.00	0.00

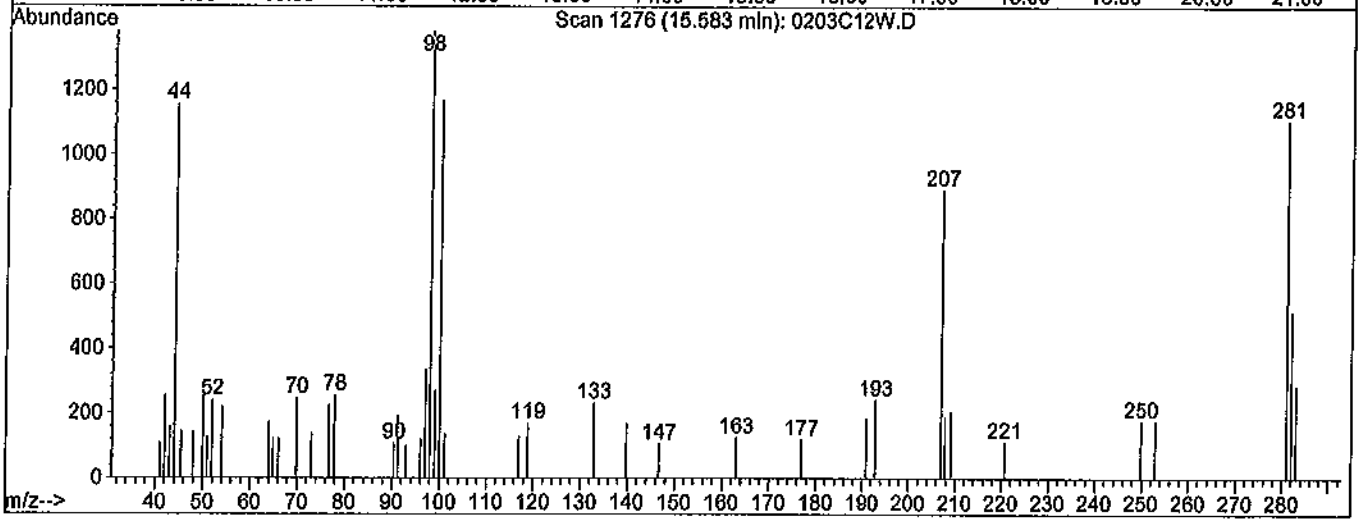
0203C12W.D CGAS.M Thu Feb 09 11:10:42 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C12W.D Vial: 1
Acq On : 3 Feb 12 16:54 Operator: RS, ARS
Sample : 120203A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:11 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0203C12W.D

(2) Gasoline (TMHB)

15.48min 49.4969ppb m

response 22112083

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.46#
0.00	0.00	1.38#
0.00	0.00	0.00

0203C12W.D CGAS.M Thu Feb 09 11:11:23 2012

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120203W-54074 LCS - 163650**
Batch ID: #86RHB-120203AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	11.0	110	80-130
1,1,1-TRICHLOROETHANE	10.00	10.6	106	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	11.1	111	65-130
1,1,2-TRICHLOROETHANE	10.00	11.5	115	75-125
1,1-DICHLOROETHANE	10.00	10.4	104	70-135
1,1-DICHLOROETHENE	10.00	10.1	101	70-130
1,2,3-TRICHLOROPROPANE	10.00	10.5	105	75-125
1,2,4-TRICHLOROBENZENE	10.00	11.6	116	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	11.0	110	50-130
1,2-DIBROMOETHANE	10.00	10.9	109	70-130
1,2-DICHLOROBENZENE	10.00	10.4	104	70-120
1,2-DICHLOROETHANE	10.00	11.1	111	70-130
1,2-DICHLOROPROPANE	10.00	10.3	103	75-125
1,3-DICHLOROBENZENE	10.00	10.1	101	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	21.8	109	70-130
1,4-DICHLOROBENZENE	10.00	10.2	102	75-125
2-BUTANONE	10.00	11.8	118	30-150
4-METHYL-2-PENTANONE	10.00	11.1	111	60-135
ACETONE	10.00	10.6	106	40-140
BENZENE	10.00	10.1	101	80-120
BROMODICHLOROMETHANE	10.00	10.7	107	75-120
BROMOFORM	10.00	10.5	105	70-130
BROMOMETHANE	10.00	10.3	103	30-145
CARBON TETRACHLORIDE	10.00	10.4	104	65-140
CHLOROBENZENE	10.00	10.5	105	80-120
CHLORODIBROMOMETHANE	10.00	11.0	110	60-135

Comments:

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	02/03/12
Analysis Date :	02/03/12
Instrument :	Chico
Run :	0203C05
Initials :	ARS

Printed: 02/09/12 12:00:35 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120203W-54074 LCS - 163650**
Batch ID: #86RHB-120203AC

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	10.7	107	60-135
CHLOROFORM	10.00	10.7	107	65-135
CHLOROMETHANE	10.00	10.6	106	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.8	108	70-125
ETHYLBENZENE	10.00	10.0	100	75-125
GASOLINE	300	293	97.7	75-125
HEXACHLOROBUTADIENE	10.00	10.5	105	50-140
METHYL TERT-BUTYL ETHER	10.00	11.1	111	65-125
METHYLENE CHLORIDE	10.00	11.0	110	55-140
STYRENE	10.00	10.8	108	65-135
TETRACHLOROETHENE	10.00	10.2	102	45-150
TOLUENE	10.00	10.2	102	75-120
TRANS-1,2-DICHLOROETHENE	10.00	10.4	104	60-140
TRICHLOROETHENE	10.00	10.9	109	70-125
VINYL CHLORIDE	10.00	9.39	93.9	50-145
XYLENES (TOTAL)	30.0	30.1	100	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	21.7	22.3	103	70-120
SURROGATE: 4-BROMOFLUOROBENZE	25.9	24.6	94.9	75-120
SURROGATE: DIBROMOFLUOROMETH	22.4	22.8	102	85-115
SURROGATE: TOLUENE-D8 (S)	24.0	22.1	92.0	85-120

Comments:

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	02/03/12
Analysis Date :	02/03/12
Instrument :	Chico
Run :	0203C05
Initials :	ARS

Printed: 02/09/12 12:00:35 PM

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C05W.D Vial: 1
Acq On : 3 Feb 12 12:35 Operator: RS, ARS
Sample : 120203A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 13:03 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.81	96	584886	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.01	117	417536	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.21	152	217792	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	359363	22.75494 ppb		0.00
Spiked Amount 22.441			Recovery = 101.398%			
37) 1,2-DCA-D4(S)	12.20	65	248763	22.32036 ppb		0.00
Spiked Amount 21.710			Recovery = 102.810%			
55) Toluene-D8(S)	15.47	98	1375483	22.06380 ppb		0.00
Spiked Amount 24.025			Recovery = 91.839%			
63) 4-Bromofluorobenzene(S)	20.08	95	511596	24.57258 ppb		0.00
Spiked Amount 25.909			Recovery = 94.842%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	166675	8.84535 ppb		99
3) Freon 114	4.32	85	131449	9.89533 ppb		92
4) Chloromethane	4.55	50	85553	10.62762 ppb		98
5) Vinyl chloride	4.81	62	54536	9.38524 ppb		97
6) Bromomethane	5.72	94	47432	10.30129 ppb		99
7) Chloroethane	5.92	64	39237	10.73000 ppb		99
8) Dichlorofluoromethane	6.00	67	383618	10.58685 ppb		99
9) Trichlorofluoromethane	6.51	103	42560	9.13581 ppb		94
10) Acetonitrile	7.65	41	80741	163.89822 ug/l		100
11) Acrolein	7.14	56	106227	140.42421 ppb		94
12) Acetone	7.27	43	12357	10.58858 ppb	#	66
13) Freon-113	7.44	101	155296	10.15441 ppb		94
14) 1,1-DCE	7.66	96	173700	10.05690 ppb		94
15) t-Butanol	7.76	59	8025	169.32093 ppb	#	76
16) Methyl Acetate	8.18	43	48811	10.64983 ppb		99
17) Iodomethane	8.15	142	289505	9.61736 ppb		94
18) Acrylonitrile	8.55	53	17922	11.47473 ppb		82
19) Methylene chloride	8.46	84	164658	11.01547 ppb		100
20) Carbon disulfide	8.54	76	187712	10.46507 ppb		97
21) Methyl t-butyl ether (MtBE	8.89	73	244670	11.10426 ppb		95
22) Trans-1,2-DCE	9.08	96	208738	10.41309 ppb		95
23) Diisopropyl Ether	9.74	45	522183	11.12398 ppb		99
24) 1,1-DCA	9.77	63	319116	10.40290 ppb		98
25) Vinyl Acetate	9.41	43	27536	9.54785 ppb	#	75
26) Ethyl tert Butyl Ether	10.42	59	364705	11.31429 ppb		94
~~27) MEK (2-Butanone)~~	~~10.42~~	~~43~~	14703	11.78681 ppb		~~91~~
28) Cis-1,2-DCE	10.79	96	218306	10.75243 ppb		99
29) 2,2-Dichloropropane	10.79	77	276063	10.95654 ppb		95
30) Chloroform	11.07	85	198859	10.69913 ppb		100
31) Bromochloromethane	11.29	128	73235	11.13235 ppb		98
33) 1,1,1-TCA	11.82	97	278843	10.64511 ppb		96
34) Cyclohexane	11.98	56	263047	9.80385 ppb		98
35) 1,1-Dichloropropene	12.09	75	239949	10.61411 ppb		97
36) 2,2,4-Trimethylpentane	12.15	57	421013	9.85524 ppb		96
38) Carbon Tetrachloride	12.27	117	230304	10.37633 ppb		97
39) Tert Amyl Methyl Ether	12.33	73	278160	10.50787 ppb		96
40) 1,2-DCA	12.35	62	138683	11.05964 ppb		94
41) Benzene	12.47	78	718936	10.09796 ppb		98
42) TCE	13.51	95	201150	10.88749 ppb		98

Algorithm Check: $\frac{(166675)(85)}{(584886)(0.805423)}(1) = 8.84535401$ ✓ ARS 2/6/12

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C05W.D Vial: 1
Acq On : 3 Feb 12 12:35 Operator: RS, ARS
Sample : 120203A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 13:03 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Pentanone	13.18	43	453124	146.43260 ppb		99
44)	1,2-Dichloropropane	13.74	63	163022	10.26283 ppb		97
45)	Bromodichloromethane	14.09	83	178722	10.74170 ppb		97
46)	Methyl Cyclohexane	13.79	83	235810	9.87209 ppb		93
47)	Dibromomethane	14.15	93	70809	11.39737 ppb		93
48)	2-Chloroethyl vinyl ether	14.54	63	43958	10.40857 ppb		92
49)	1-Bromo-2-chloroethane	14.85	63	130089	11.19534 ppb		98
50)	Cis-1,3-Dichloropropene	14.98	75	219891	11.01590 ppb		97
51)	Toluene	15.61	91	739435	10.24371 ppb		97
52)	Trans-1,3-Dichloropropene	15.77	75	146736	10.76993 ppb		100
53)	1,1,2-TCA	16.05	83	73423	11.45775 ppb		99
56)	1,2-EDB	17.30	107	86313	10.85288 ppb		88
57)	Tetrachloroethene	16.76	164	177189	10.18564 ppb		87
58)	1-Chlorohexane	17.67	91	252208	9.72209 ppb		97
59)	1,1,1,2-Tetrachloroethane	18.12	131	152978	10.98728 ppb		99
60)	m&p-Xylene	18.33	106	643559	19.51640 ppb		99
61)	o-Xylene	19.07	106	322713	10.55205 ppb		94
62)	Styrene	19.09	104	485090	10.79909 ppb		99
64)	2-Hexanone	16.07	43	31302	11.41842 ppb		91
65)	1,3-Dichloropropane	16.46	76	155726	10.91543 ppb		97
66)	Dibromochloromethane	16.94	129	111626	11.00559 ppb		93
67)	Chlorobenzene	18.08	112	470780	10.45744 ppb		99
68)	Ethylbenzene	18.18	91	835740	9.99978 ppb		99
69)	Bromoform	19.60	173	56683	10.47559 ppb		91
71)	MIBK (methyl isobutyl keto	14.65	43	51481	11.09914 ppb		99
72)	Isopropylbenzene	19.70	105	803510	9.88464 ppb		100
73)	1,1,2,2-Tetrachloroethane	19.86	83	77474	11.11801 ppb		98
74)	1,2,3-Trichloropropane	20.13	110	7300	10.47114 ppb		98
75)	t-1,4-Dichloro-2-Butene	20.19	53	18130	10.16767 ppb		85
76)	Bromobenzene	20.44	156	192092	9.74565 ppb		98
77)	n-Propylbenzene	20.41	91	976643	9.84828 ppb		99
78)	4-Ethyltoluene	20.60	105	563026	9.69806 ppb		98
79)	2-Chlorotoluene	20.70	91	631300	9.90868 ppb		97
80)	1,3,5-Trimethylbenzene	20.68	105	657539	10.11374 ppb		97
81)	4-Chlorotoluene	20.77	91	529337	9.52511 ppb		99
82)	Tert-Butylbenzene	21.32	119	682446	9.67532 ppb		97
83)	1,2,4-Trimethylbenzene	21.37	105	660667	10.00050 ppb		100
84)	Sec-Butylbenzene	21.72	105	875971	9.71880 ppb		99
85)	p-Isopropyltoluene	21.95	119	719797	9.91754 ppb		98
86)	Benzyl Chloride	22.39	91	141324	11.37500 ppb		94
87)	1,3-DCB	22.09	146	379509	10.07700 ppb		98
88)	1,4-DCB	22.26	146	357259	10.20490 ppb		100
89)	Hexachloroethane	23.56	117	146370	9.77650 ppb		97
90)	n-Butylbenzene	22.66	91	642430	10.03251 ppb		94
91)	1,2-DCB	22.89	146	315391	10.39472 ppb		95
92)	1,2-Dibromo-3-chloropropan	24.11	155	12760	11.02230 ppb	#	70
93)	1,2,4-Trichlorobenzene	25.55	180	100352	11.55035 ppb		93
94)	Hexachlorobutadiene	25.80	223	101689	10.52029 ppb		86
95)	Naphthalene	25.90	128	292138	11.71861 ppb		99
96)	1,2,3-Trichlorobenzene	26.26	180	76568	11.41711 ppb		98

11.01590 + 10.76993 = 21.78583 ppb is the amount of total 1,3-dichloropropene

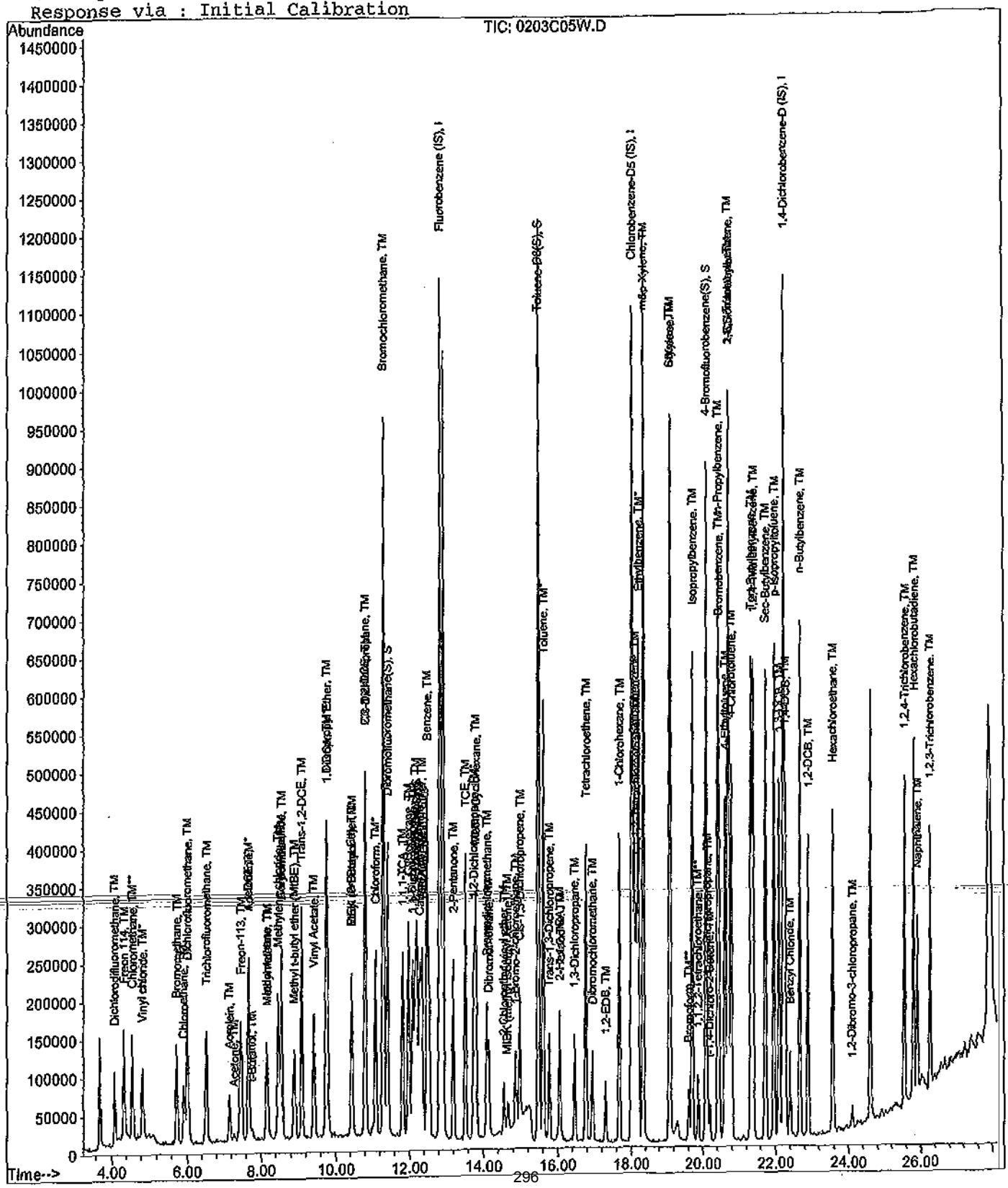
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C05W.D Vial: 1
Acq On : 3 Feb 12 12:35 Operator: RS, ARS
Sample : 120203A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 13:03 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C08W.D Vial: 1
Acq On : 3 Feb 12 14:26 Operator: RS, ARS
Sample : 120203A GAS LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:10 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.82	TIC	1136487	25.00000	ppb	0.03
3) Chlorobenzene-D5 (IS)	18.01	TIC	1120619	25.00000	ppb	0.03
4) 1,4-Dichlorobenzene-D (IS)	22.21	TIC	1165611	25.00000	ppb	0.03

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.61	TIC	47903490m	292.89614	ppb	100

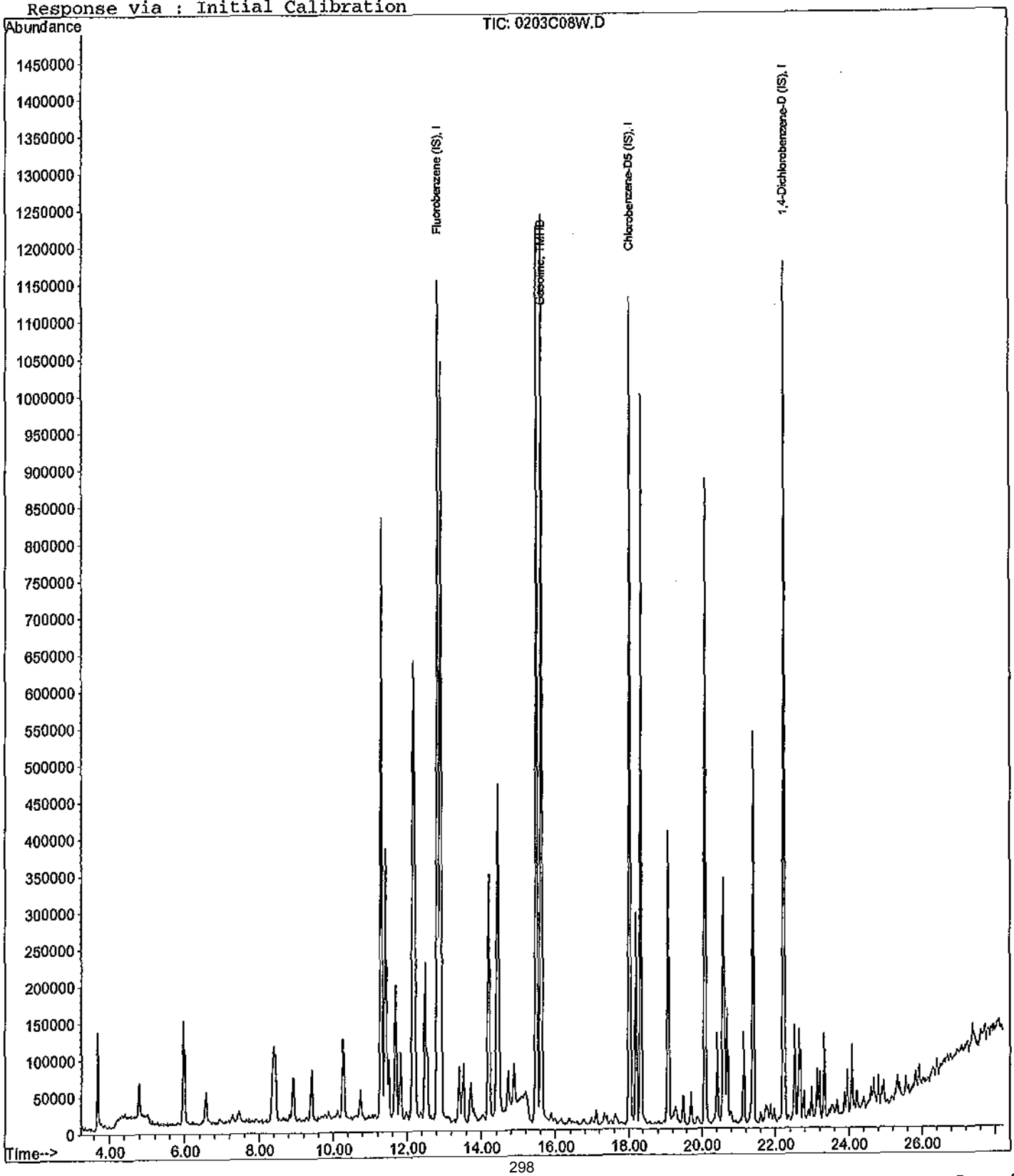
(#) = qualifier out of range (m) = manual integration
0203C08W.D CGAS.M Thu Feb 09 11:14:20 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C08W.D Vial: 1
Acq On : 3 Feb 12 14:26 Operator: RS, ARS
Sample : 120203A GAS LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 9 11:10 2012 Quant Results File: CGAS.RES

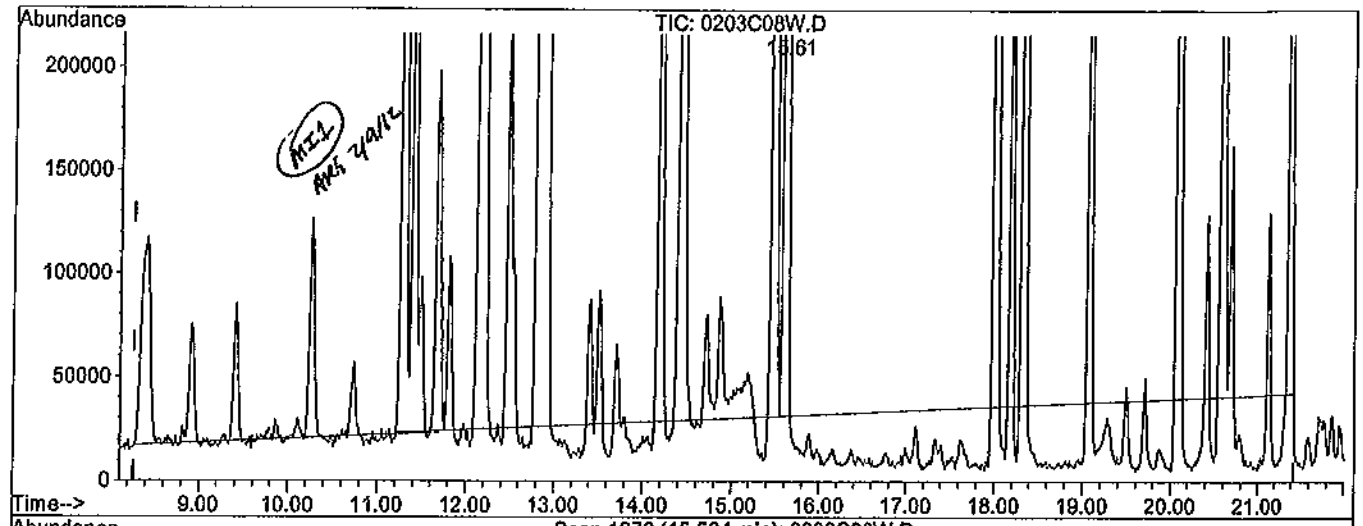
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

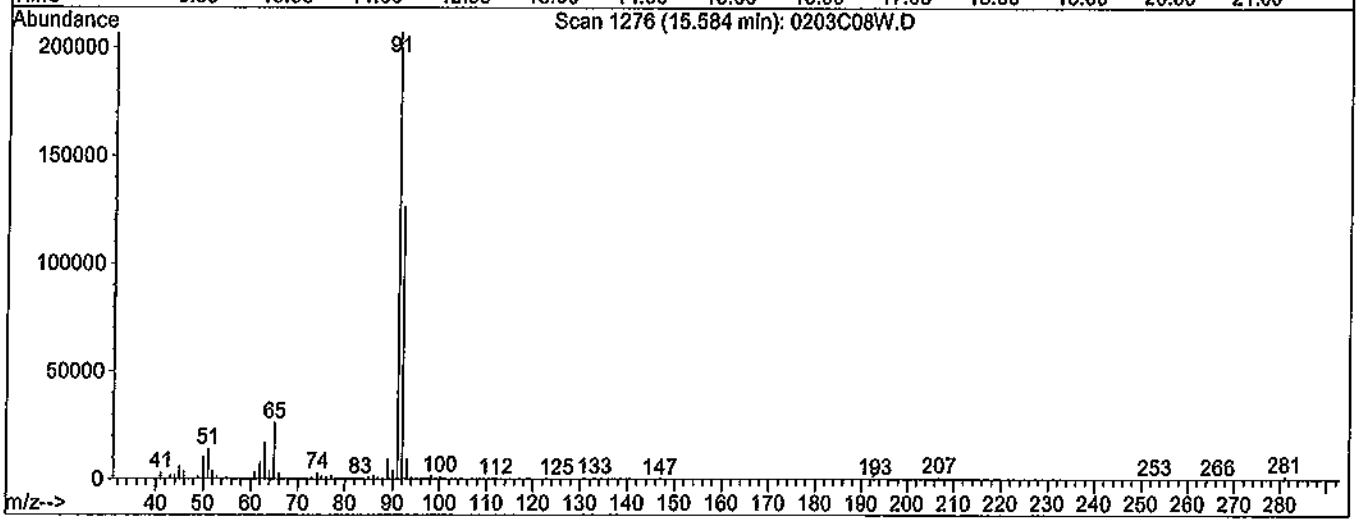


Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C08W.D Vial: 1
Acq On : 3 Feb 12 14:26 Operator: RS, ARS
Sample : 120203A GAS LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:08 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0203C08W.D

(2) Gasoline (TMHB)

15.58min 236.2400ppb m

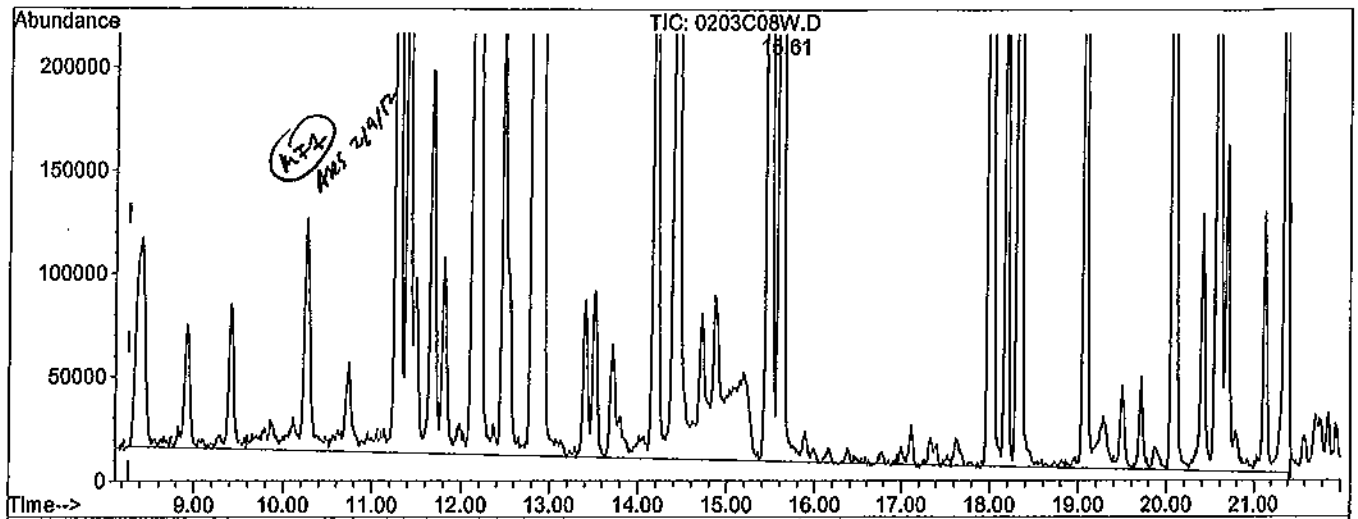
response 42307692

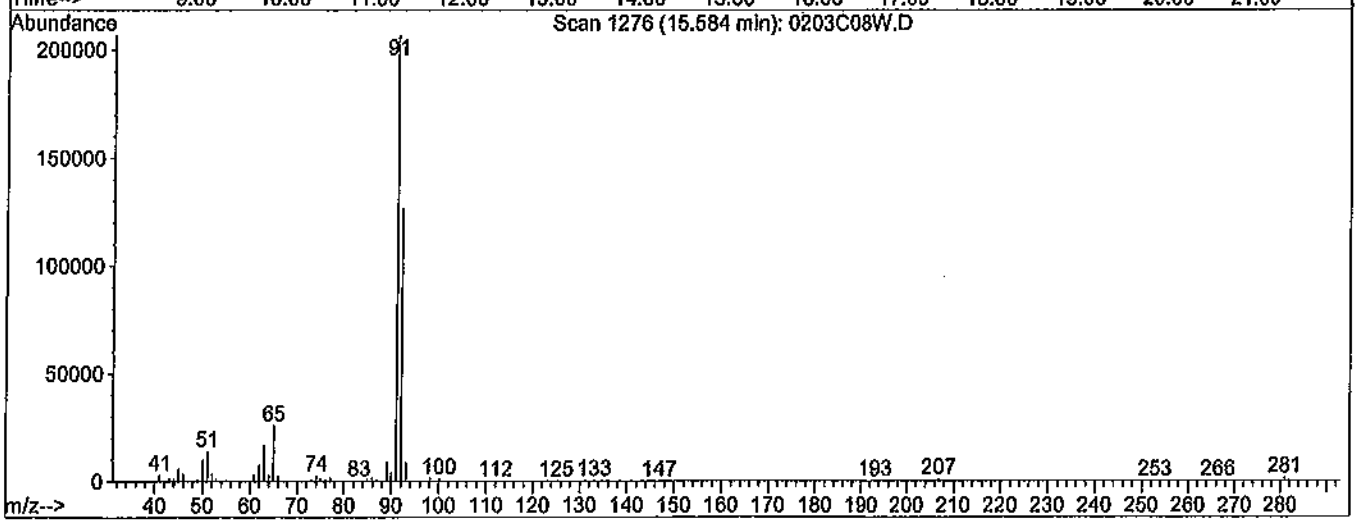
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.25#
0.00	0.00	0.78#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C08W.D Vial: 1
Acq On : 3 Feb 12 14:26 Operator: RS, ARS
Sample : 120203A GAS LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 9 11:10 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0203C08W.D

(2) Gasoline (TMHB)

15.61min 292.8961ppb m

response 47903490

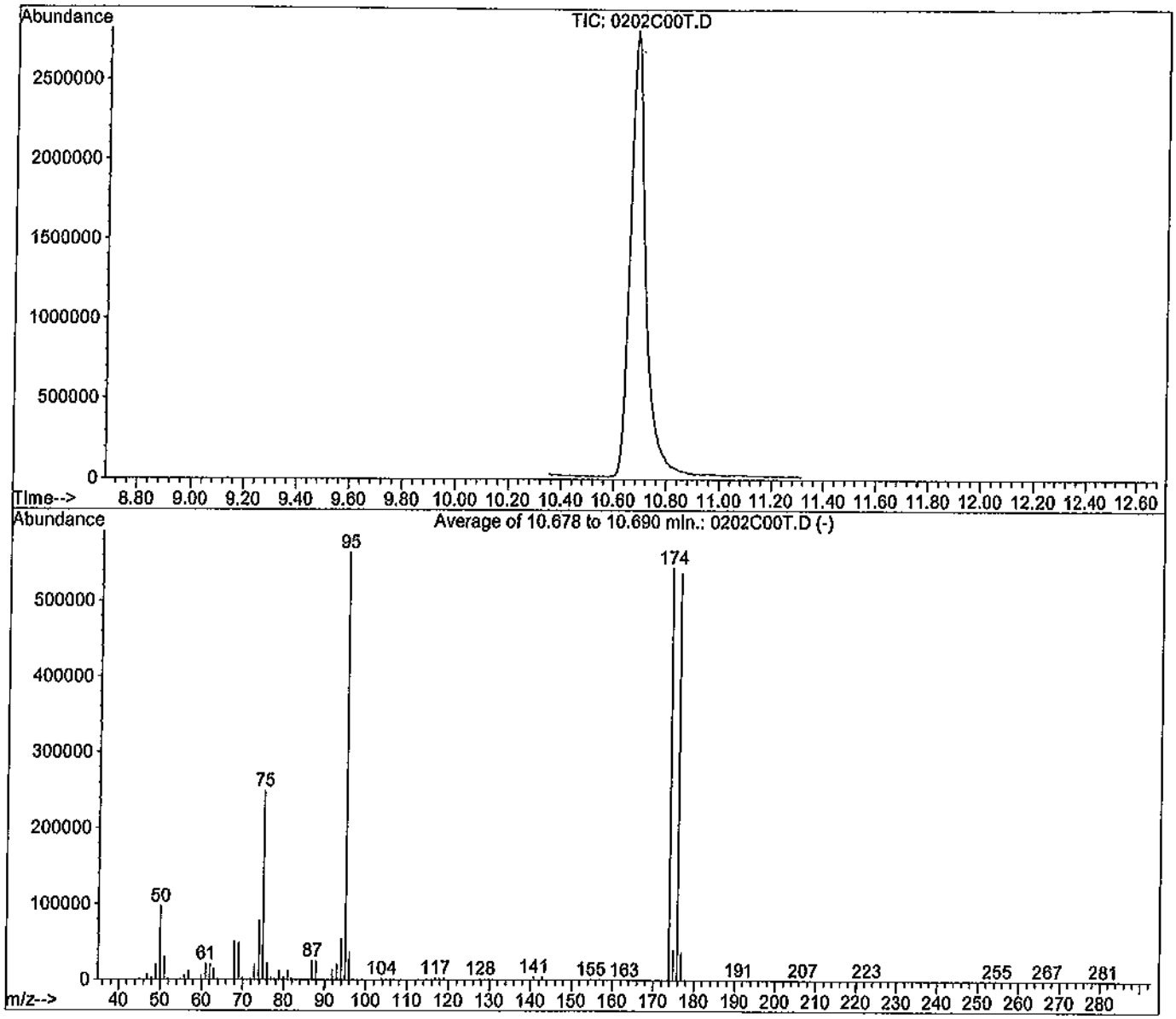
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.22#
0.00	0.00	0.69#
0.00	0.00	0.00

0203C08W.D CGAS.M Thu Feb 09 11:10:15 2012

Data File : M:\CHICO\DATA\C120202\0202C00T.D
Acq On : 2 Feb 12 14:16
Sample : 25ug/mL BFB Std. 01-12-12
Misc : 2uL

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260



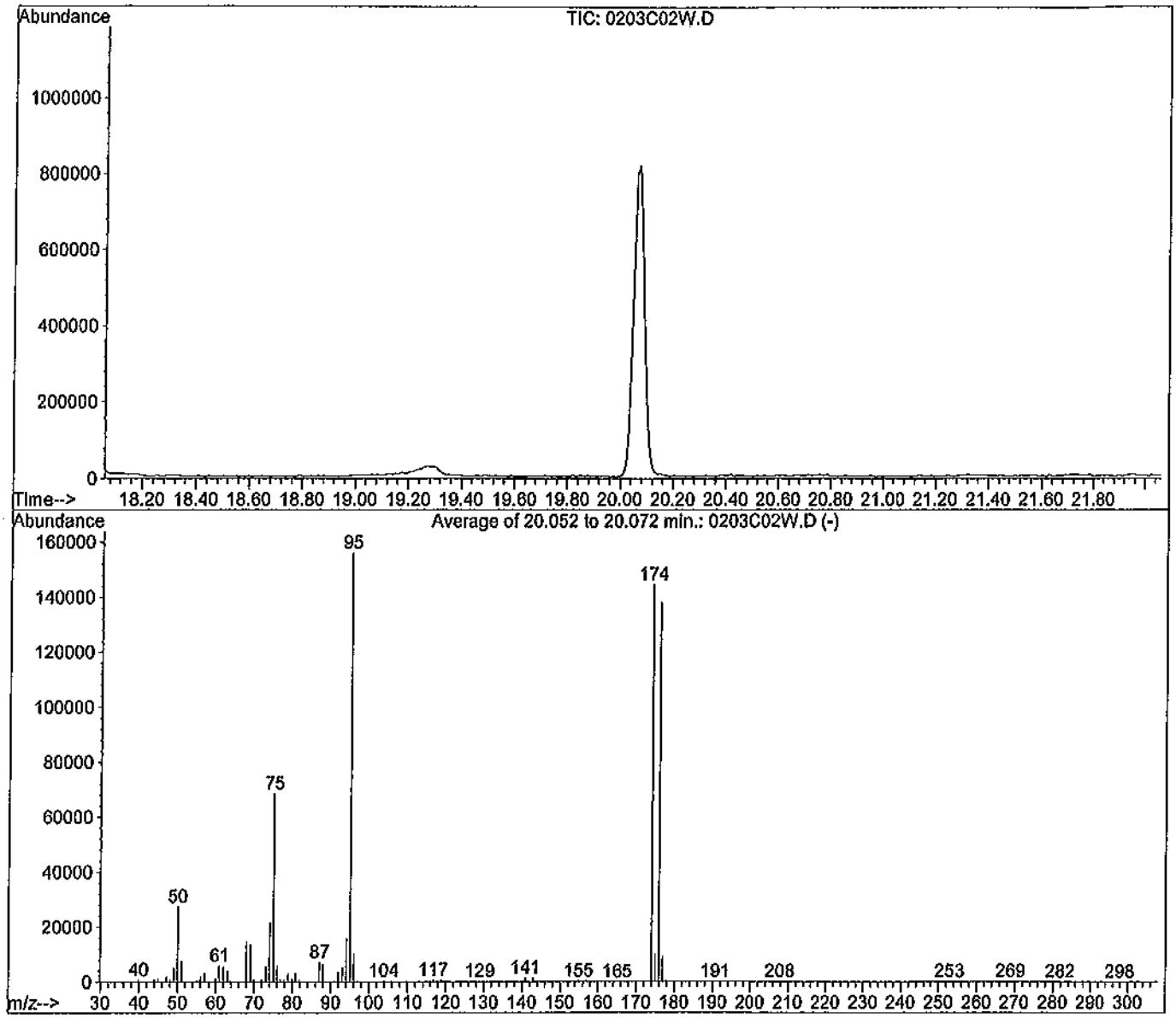
Spectrum Information: Average of 10.678 to 10.690 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	97279	PASS
75	95	30	60	44.3	249567	PASS
95	95	100	100	100.0	563968	PASS
96	95	5	9	6.5	36831	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	96.6	544768	PASS
175	174	5	9	7.5	40707	PASS
176	174	95	101	98.7	537749	PASS
177	176	5	9	6.8	36592	PASS

Data File : M:\CHICO\DATA\C120202\0203C02W.D
Acq On : 3 Feb 12 10:44
Sample : 25ug/L BFB Std. 01-12-12
Misc : 2uL

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260



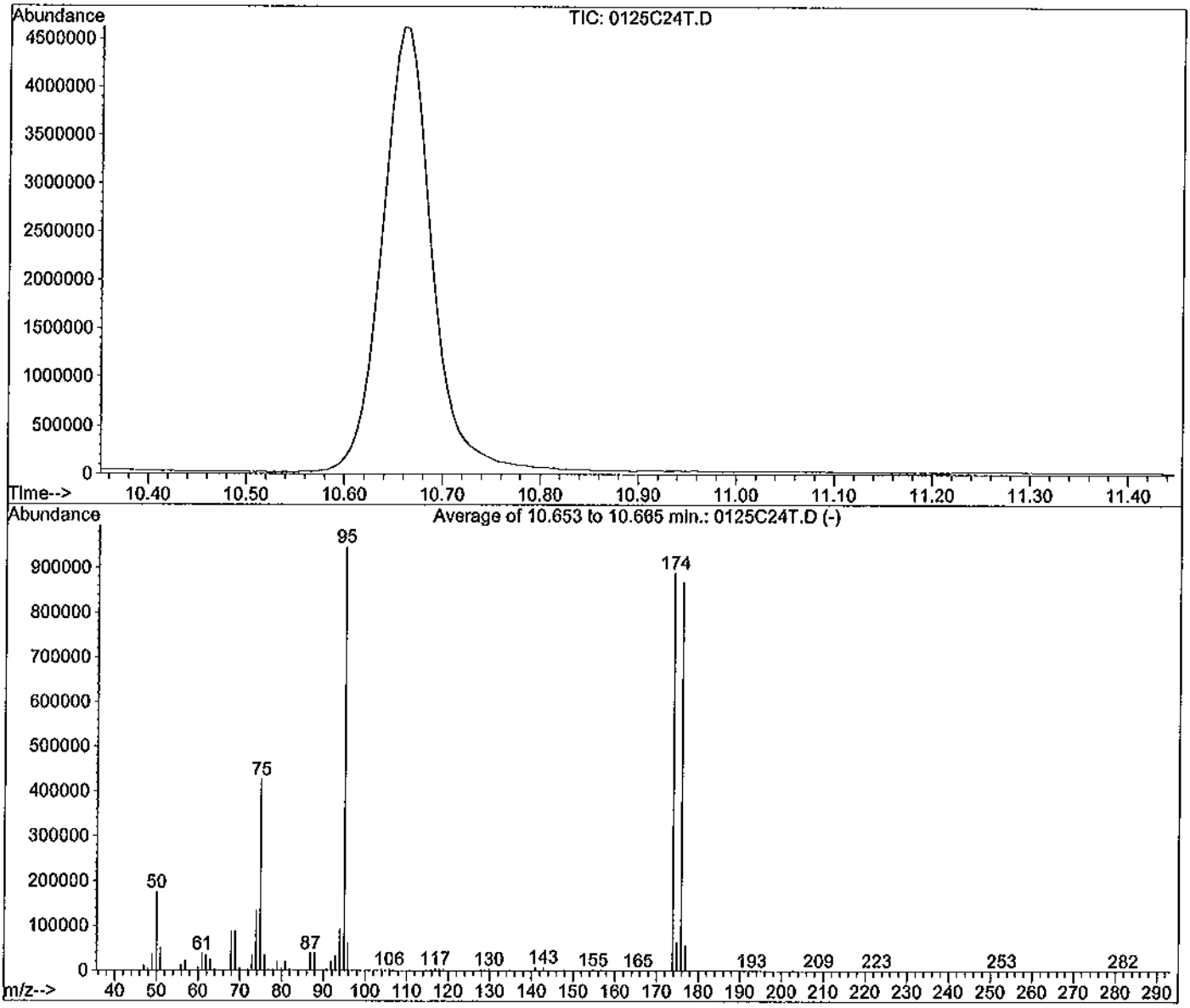
Spectrum Information: Average of 20.052 to 20.072 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	27475	PASS
75	95	30	60	43.9	68610	PASS
95	95	100	100	100.0	156144	PASS
96	95	5	9	6.6	10330	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.7	144683	PASS
175	174	5	9	7.1	10236	PASS
176	174	95	101	95.4	138067	PASS
177	176	5	9	6.6	9114	PASS

Data File : M:\CHICO\DATA\C120125\0125C24T.D
Acq On : 26 Jan 12 16:30
Sample : 25ug/mL BFB Std. 01-12-12
Misc : Water 2uL

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B



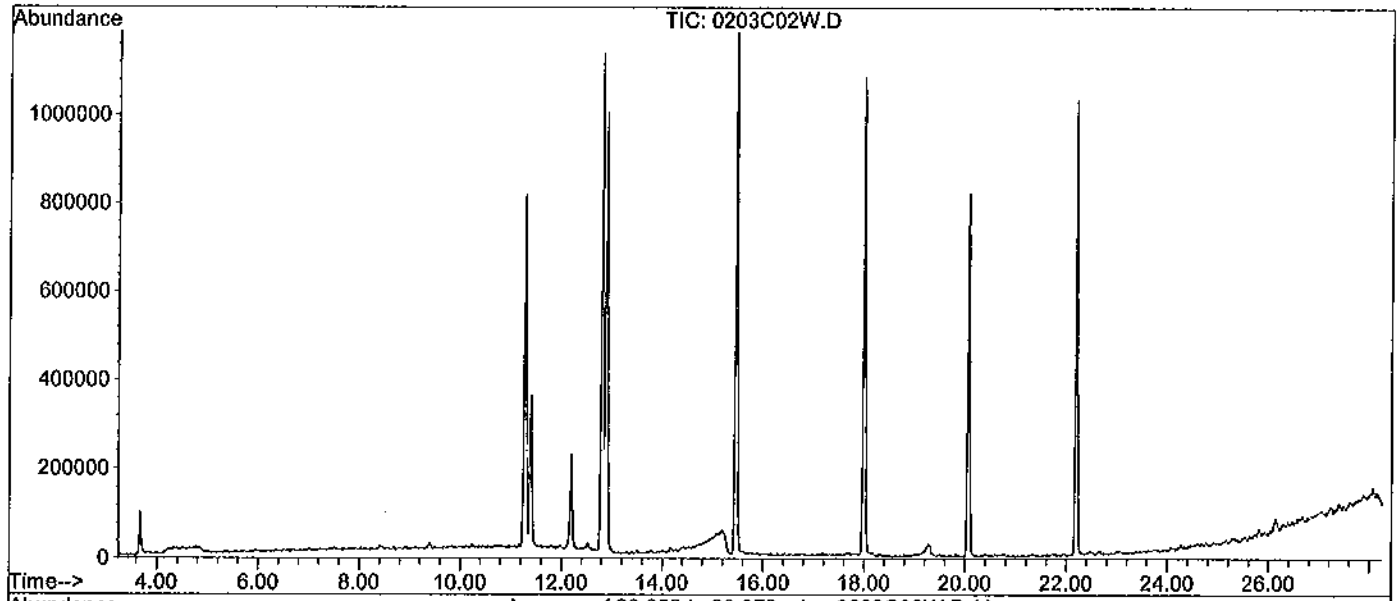
Spectrum Information: Average of 10.653 to 10.665 min.

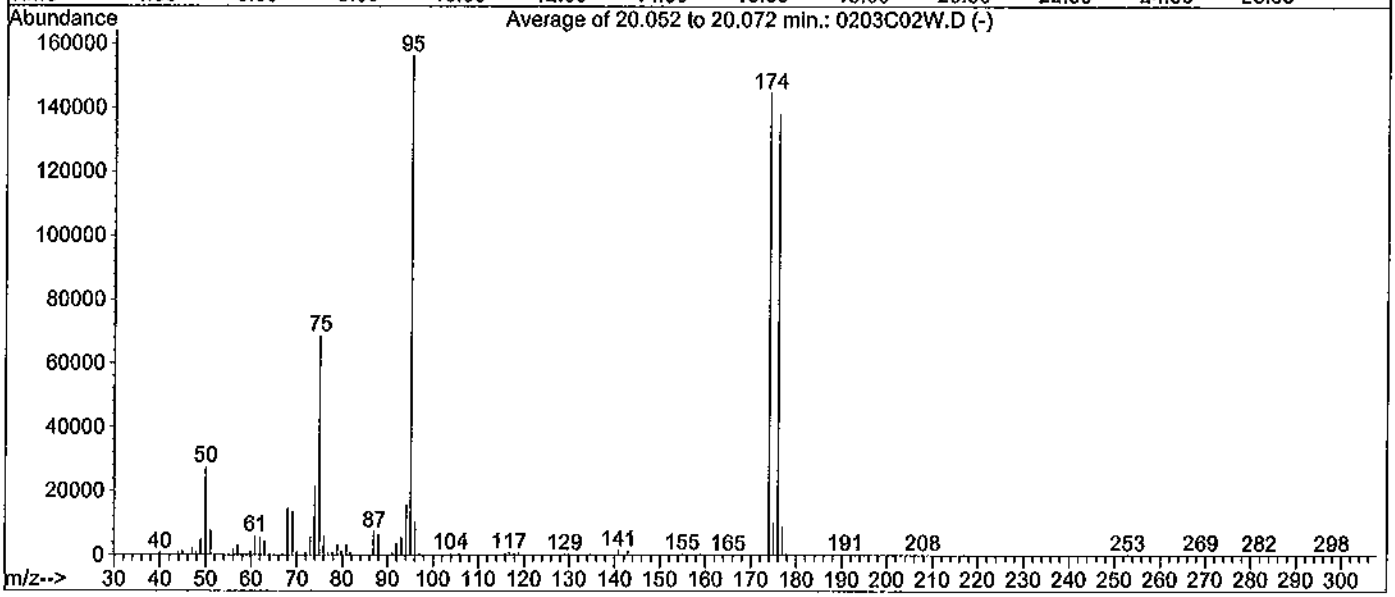
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	175569	PASS
75	95	30	60	45.1	426726	PASS
95	95	100	100	100.0	947029	PASS
96	95	5	9	6.5	61164	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.9	889685	PASS
175	174	5	9	7.3	64552	PASS
176	174	95	101	97.7	869568	PASS
177	176	5	9	6.5	56475	PASS

Data File : M:\CHICO\DATA\C120202\0203C02W.D
Acq On : 3 Feb 12 10:44
Sample : 25ug/L BFB Std. 01-12-12
Misc : 2uL

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B





Spectrum Information: Average of 20.052 to 20.072 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	27475	PASS
75	95	30	60	43.9	68610	PASS
95	95	100	100	100.0	156144	PASS
96	95	5	9	6.6	10330	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.7	144683	PASS
175	174	5	9	7.1	10236	PASS
176	174	95	101	95.4	138067	PASS
177	176	5	9	6.6	9114	PASS

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

	Expiration Date:		01/10/12							
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-09-12AW	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
01-09-12AX	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
01-09-12AY	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
01-09-12AZ	20	20	20	n/a	n/a	n/a	~~20~~ 10	n/a	20	n/a
01-09-12BA	50	n/a	n/a	5	5	5	n/a	5	n/a	5
01-09-12BB	100	n/a	n/a	10	10	10	n/a	10	n/a	10
01-09-12BC	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

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

	Expiration Date:		01/11/12							
		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-10-12A	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-10-12B	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-10-12C	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-10-12D	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-10-12E	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-10-12F	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-10-12G	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-10-12H	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPD	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

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

	Expiration Date:		01/11/12							
		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-10-12I	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-10-12J	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-10-12K	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-10-12L	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-10-12M	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-10-12N	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-10-12O	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-10-12P	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPD	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

4-Bromofluorobenzene
Solution, 2,500 mg/L, 1 ml

020133-03

Lot #	Storage	Expire
163173	≤-10 Degrees	8/24/13

Solv: P/T Methanol

4-Bromofluorobenzene
Lot #: 163173 - 29053
Rec: 8/1/11 MFR exp. 08/24/13

A-

1/12/12

RS

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

01-12-12B								
25ug/ml BFB STD				Conc.		Date	EXP:	
EXP: 02-12-12				ug/ml	Lot#	CODE	Date	ul
02SI	020135-03	4-Bromofluorobenzene		2500	163173-29056	01-12-12A	05/11/12	20
J&T Baker		Purge & Trap MeOH			K07E34-00569	01/09/12	09/28/12	1980
01-12-12C								
25ug/ml BFB STD				Conc.		Date	EXP:	
EXP: 02-12-12				ug/ml	Lot#	CODE	Date	ul
02SI	020135-03	4-Bromofluorobenzene		2500	163173-29056	01-12-12A	05/11/12	20
J&T Baker		Purge & Trap MeOH			K07E34-00569	01/09/12	09/28/12	1980

1/12/12 RS.

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

	Expiration Date:		01/14/12							
		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #3
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-13-12A	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-13-12B	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-13-12C	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-13-12D	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-13-12E	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-13-12F	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-13-12G	200	n/a	n/a	200	200	125	n/a	200	200	n/a

1/13/12 RS

250µg/mL TAPD	2-CEVE
01-09-12W	(w/PATH20)
Exp:01-16-12	
5	50
10	50
20	50
25	50
35	50
40	50
45	50

1/16/12 RS

1/16/12 RS

1/16/12 RS

1/16/12 RS

1/16/12 RS

1/16/12 RS

1/16/12 RS

1/16/12 RS

1/16/12 RS

1/16/12 RS

1/16/12 RS

1/16/12 RS

A-

Method 8260 Gases, 2,000 mg/L, 2 X 0.5 ml

120116-03

Lot # 167931 | Storage <=10 Degrees C | Expiry 1/17/14

Solv: P/T Methanol

Method 8260 Gases

Lot #: 167931 - 28285

Rec: 2/17/11 MFR exp. 01/17/14

RS

B-

2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 2 X 0.6 ml

o2si

2-Chloroethyl vinyl ether

Cat. No: 020145-02-02

Lot No: 160092

Exp: 5/27/2012

Storage: </= -10 Degrees C

Solvent: P/T Methanol

For Research Use Only

Lot #: 160092 - 26640

Rec: 6/4/10 MFR exp. 05/27/12

umption

te Opened: _____

RS

C-

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

120309-02

Lot # 176771 | Storage <=10 Degrees C | Expiry 7/31/13

Solv: P/T Methanol

Solutions

Volatile Mix, 20-29

Lot #: 176771 - 29197

Rec: 8/5/11 MFR exp. 07/31/13

RS

NOTEBOOK INSERT LABEL

Gasoline 47616-U
Lot: LB82077 EXP: FEB/2014 STORAGE: ROOM TEMP. 1 x 1ml

DATE RECEIVED: _____

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

STANDARD TRANSFER LABEL

Date of Preparation: **Exp. Date:** EXP: FEB/2014
Reference Number: **Storage:** ROOM TEMP.
Description:

Lot #: LB82077 - 29979
Rec: 11/11/11 MFR exp. 02/28/14
gasoline

RESTEK Catalog # 3

Unleaded gasoline composite
Lot #: A081012 - 29980
Rec: 11/14/11 MFR exp. 05/30/18

Unleaded Gasoline Composite Standard

60000 ug/mL each in P&T Methanol
Lot# A081012 Exp. Date: 05/2018 Store: 0°C or colder

01/26/12C							
2000ug/ml Gasoline						APPL	
Supplier	ID #		Conc. ug/ml	Lot #	Date Code	Exp. Date	uL
Supelco	LB82077	Gasoline	20,000	LB82077-29979	01-26-12A	02/01/14	200
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	08/02/12	1800
01/26/12D							
2000ug/ml Unleaded Gasoline						APPL	
Supplier	ID #		Conc. ug/ml	Lot #	Date Code	Exp. Date	uL
Restek	30205	Unleaded Gasoline	60,000	A081012-29980	01-26-12B	02/01/14	80
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	08/02/12	1920

Gasoline Curve Preparation for 100mL Purge (water)-CHICO			
	Expiration Date:		01/27/12
		50µg/mL Gasoline	Final Vol
Date	Conc.	01-26-12C	wP&T H2O
Code	µg/L	Exp:01-03-12	mL
01-26-12E	20	1	100
01-26-12F	50	2.5	100
01-26-12G	100	5	100
01-26-12H	300	15	100
01-26-12I	600	30	100
01-26-12J	800	40	100
01-26-12K	1000	50	100

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

	Expiration Date:		01/27/12							
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	01-25-12AH	01-25-12AL	01-25-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AJ
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-26-12L	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
01-26-12M	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
01-26-12N	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
01-26-12O	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
01-26-12P	50	n/a	n/a	5	5	5	n/a	5	n/a	5
01-26-12Q	100	n/a	n/a	10	10	10	n/a	10	n/a	10
01-26-12R	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA	Final Vol
01-25-12AM	wP&T H2O
Exp:02-01-12	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

1/27/12 RS.

Volatile Standard Curve Preparation for 10mL Purge (624 water)-NEO								
	Expiration Date:		01/28/12					
		5µg/mL Vol Std #9	5µg/mL Vol Std #12	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Vol Std #2	260µg/mL TAPD	Final Vol
Date	Conc.	01-25-12U	01-25-12W	01-25-12Q	01-25-12S	01-26-12T	01-25-12Z	w/P&T H2O
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	mL
01-27-12A	0.2	2	2	n/a	n/a	n/a	2	50
01-27-12B	0.5	5	5	n/a	n/a	n/a	5	50
01-27-12C	1	10	10	n/a	n/a	n/a	10	50
01-27-12D	5	n/a	n/a	5	5	40	20	50
01-27-12E	10	n/a	n/a	10	10	20	25	50
01-27-12F	40	n/a	n/a	40	40	100	35	50

A.

1/28/12

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

Method 8260 Internal Standard
Lot #: 166255 - 29272
Rec: 8/5/11 MFR exp. 11/18/12

B.

1/28/12

Fluorobenzene Solution, 2,000 mg/L, 1 ml
120132-02
Lot # 169170 Storage ≤ 6 Degrees C Expiry 2/13/14
Solv: P/T Methanol

Fluorobenzene
Lot #: 169170 - 29281
Rec: 8/5/11 MFR exp. 02/13/14

C.

1/28/12

8260B Surrogate Solution, 2,000 mg/L, 5 x 1 ml
120002-01-5PAK
Lot # 178653 Storage ≤ -10 Degrees C Expiry 9/11/13
Solv: P/T Methanol

8260B Surrogate Solution
Lot #: 178653 - 29569
Rec: 9/22/11 MFR exp. 09/11/13

D.

1/28/12

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

Method 8260 Internal Standard
Lot #: 166255 - 29273
Rec: 8/5/11 MFR exp. 11/18/12

Fluorobenzene Solution, 2,000 mg/L, 1 ml

Lot # 169170 Storage 5-6 Degrees C Expiry 2/13/14

Soln: P/T Methanol

Fluorobenzene

Lot #: 169170 - 29282

Rec: 8/5/11 MFR exp. 02/13/14

Sweetpea

01-27-12G

250ug/ml 8260 Internal Standard - Sweetpea			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120302-03	Internal Standard Mix	2000	166255-29272	01-28-12A	06/10/12	500
	020132-02	Fluorobenzene Standard	2000	169170-29281	01-28-12B	06/10/12	500
J.T.Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/14/12	3000

01-27-12H

250ug/ml 8260 Surrogate - Sweetpea			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120002-01	Surrogate Standards	2000	178653-29569	01-28-12C	06/10/12	500
J.T.Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/14/12	3500

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

Expiration Date: 01/28/12

Level	Conc. ug/mL	5µg/mL Vol Std #9 Exp:02-01-12	5µg/mL Surr 01-25-12AL Exp:02-01-12	50µg/mL Vol Std #7 01-25-12AD Exp:02-01-12	50µg/mL Vol Std #8 01-25-12AF Exp:02-01-12	50µg/mL Surr 01-25-12AK Exp:02-01-12	5µg/mL Vol Std #10 01-25-12AI Exp:02-01-12	50µg/mL Vol Std #1 01-25-12AE Exp:02-01-12	50µg/mL Vol Std #2 01-25-12AG Exp:02-01-12	5µg/mL Vol Std #12 01-25-12AJ Exp:02-01-12
01-27-12LVS	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-27-12LS	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-27-12LS	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-27-12LS	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-27-12MS	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-27-12MS	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-27-12CS	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-27-12HS	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPO 01-25-12AM Exp:02-01-12	Final Vol w/P&T H2O mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

Neo

01-28-12F

50ug/ml 8260 Internal Standard			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120302-03	Internal Standard Mix	2000	166255-29273	01-28-12D	06/14/12	500
O2SI	020132-02	Fluorobenzene Standard	2000	169170-29282	01-28-12E	06/14/12	500
J.T Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/10/12	19000
For Neo's "The One" Autosampler							

01-28-11G

50ug/ml 8260B Surrogate- Neo			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	8260B Surr	Surrogate Standards	2000	178653-29569	01-28-12C	06/14/12	500
J.T Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/10/12	19500

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

	Expiration Date:		01/29/12								
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #2
Date	Conc.	01-25-12AH	01-25-12AL	01-26-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AG
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-28-12H	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
01-28-12I	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
01-28-12J	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
01-28-12K	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
01-28-12L	50	n/a	n/a	5	5	5	n/a	5	n/a	5
01-28-12M	100	n/a	n/a	10	10	10	n/a	10	n/a	10
01-28-12N	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA	250µg/mL TBA
01-25-12AM	01-25-12AM
Exp:02-01-12	Exp:02-01-12
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

1/31/12 A-
RS.

EPA-Method 502/524
Fortification Solution, 3-1,
1000 mg/L, 1 ml
122450-02
Lot # 176776 Storage ≤ -10 Degrees C Expiry 7/31/13
Solv: P/T Methanol
Made in the USA. 502 Only, not human consumption.
Supelco solutions®
EPA Method 502/524 Fortification
Lot #: 176776 - 29297
Rec: 8/5/11 MFR exp. 07/31/13
RS.

Thor 524						
01-31-12B						
10ug/ml Neo-524 Internal Standard w/ Surrogate			Conc.		Date	Exp.
			ug/ml	Lot #	Code	Date
02SI	122450-02	524 Fortification Sol	1000	176776-29297	01-31-12A	08/31/12
J.T.Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/10/12

1/31/12
RS

CHICO						
01-31-12C						
250ug/ml 8260 Internal Standard - Chico			Conc.		Date	Exp.
Supplier	ID #		ug/ml	Lot #	Code	Date
02SI	120302-03	Internal Standard Mix	2000	166255-29273	01-28-12D	07/31/12
02SI	020132-02	Fluorobenzene Standard	2000	169170-29282	01-28-12E	07/31/12
J&T Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/10/12

1/31/12
RS.

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

	Expiration Date:		02/01/12							
		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 #1	50µg/mL Vol Std #2	50µg/mL Vol Std #2
Date	Conc.	01-25-12AH	01-25-12AL	01-25-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AG
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-31-12D	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a
01-31-12E	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a
01-31-12F	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a
01-31-12G	5	n/a	n/a	5	5	10	n/a	5	10	n/a
01-31-12H	10	n/a	n/a	10	10	25	n/a	10	20	n/a
01-31-12I	20	n/a	n/a	20	20	40	n/a	20	40	n/a
01-31-12J	40	n/a	n/a	40	40	80	n/a	40	100	n/a
01-31-12K	100	n/a	n/a	100	100	100	n/a	100		

250µg/mL TAPD	250µg/mL TAPD
01-25-12AM	01-25-12AM
Exp:02-01-12	Exp:02-01-12
3	3
5	5
10	10
20	20
25	25
30	30
35	35
40	40

1/31/12 L-
RS.

Fluorobenzene Solution,
2,000 mg/L, 1 ml
020132-02
Lot # 169170 Storage ≤ -10 Degrees C Expiry 2/13/14
Solv: P/T Methanol
Made in the USA. 502 Only, not human consumption.
Fluorobenzene
Lot #: 169170 - 29283
Rec: 8/5/11 MFR exp. 02/13/14
RS.

Sweetpea							
01-31-12M							
250ug/ml 8260 Internal Standard w/ Surrogate			Conc.	Lot #	Date	Exp.	
02SI	120302-03	Internal Standard Mix	2000	166255-29272	01-28-12A	06/10/12	500
02SI	020132-02	Fluorobenzene Standard	2000	169170-29283	01-31-12L	06/10/12	500
02SI	120002-01	Surrogate Standard	2000	178653-29569	01-28-12C	06/10/12	500
J.T.Baker		Purge & Trap MeOH		K07834-00571	01/25/12	10/14/12	2500

2/6/12 A –

Method 8260 Gases, 2,000 mg/L, 2 X 0.5 ml

120016-03

Lot #	Storage	Expiry
167931	≤-10 Degrees C	1/17/14

Solv: P/T Methanol

Made only, not human exposure. Made in the USA

Method 8260 Gases
Lot #: 167931 - 28287
Rec: 2/17/11 MFR exp. 01/17/14

2/6/12 B –

Hexachloroethane Solution, 1000 mg/L, 1 ml

020049-02

Lot #	Storage	Expiry
176100	≤-10 Degrees C	7/31/13

Solv: P/T Methanol

Made only, not human exposure. Made in the USA

Hexachloroethane
Lot #: 176700 - 29160
Rec: 8/5/11 MFR exp. 07/31/13

2/6/12 C –

Benzyl Chloride Solution, 1000 mg/L, 1 ml

020228-02

Lot #	Storage	Expiry
176701	≤-10 Degrees C	7/31/13

Solv: P/T Methanol

Made only, not human exposure. Made in the USA

Benzyl Chloride
Lot #: 176701 - 29774
Rec: 10/24/11 MFR exp. 07/31/13

2/6/12 D –

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

120039-02

Lot #	Storage	Expiry
176771	≤-10 Degrees C	7/31/13

Solv: P/T Methanol

Made only, not human exposure. Made in the USA

Volatile Mix, 20-29
Lot #: 176771 - 29198
Rec: 8/5/11 MFR exp. 07/31/13

2/6/12 E –

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

120023-03

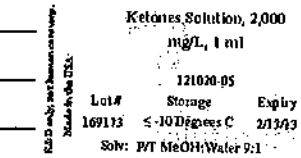
Lot #	Storage	Expiry
164454	≤-10 Degrees C	10/4/12

Solv: P/T Methanol

Made only, not human exposure. Made in the USA

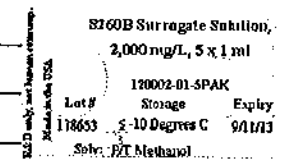
8260 VOC Liquids, 54 Comp.
Lot #: 164454 - 27876
Rec: 12/15/10 MFR exp. 10/04/12

2/02/12 RS F-



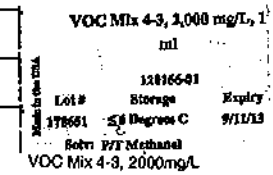
Ketones
Lot #: 169173 - 29214
Rec: 8/5/11 MFR exp. 02/13/13

2/02/12 RS G-



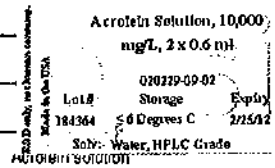
8260B Surrogate Solution
Lot #: 178653 - 29568
Rec: 9/22/11 MFR exp. 09/11/13

2/02/12 RS H-



VOC Mix 4-3, 2000mg/L
Lot #: 178651 - 29804
Rec: 10/24/11 MFR exp. 09/11/13

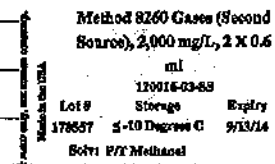
2/02/12 RS I-



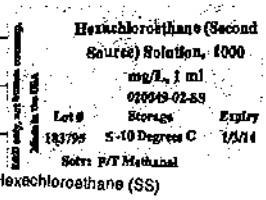
Lot #: 184364 - 30245
Rec: 1/19/12 MFR exp. 02/25/12

Acrolein solution

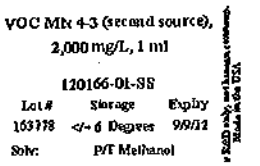
2/02/12 RS J-



Method 8260 Gases (SS)
Lot #: 178557 - 29517
Rec: 9/20/11 MFR exp. 09/13/14



Hexachloroethane (SS)
Lot #: 183795 - 30198
Rec: 1/10/12 MFR exp. 01/03/14



VOC Mix 4-3 (SS)
Lot #: 183778 - 29836
Rec: 10/24/11 MFR exp. 09/09/12

02-02-12M							
50ug/ml Vol Work Std #7							
Exp:02/08/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	167931-28287	02-02-12A	02/08/12	100
02SI	020049-02	HEXACHLOROETHANE	1000	164816-29160	02-02-12B	04/07/12	200
02SI	020228-02	Benzyl Chloride	1000	176701-29774	02-02-12C	04/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3500
02-02-12N							
50ug/ml Vol Work Std #1							
Exp:02/08/12							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	160092-26641	01-25-12K	04/07/12	50
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1950
02-02-12O							
50ug/ml Vol Work Std #8							
Exp:02/08/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	176771-29198	02-02-12D	04/07/12	100
02SI	120023-03	VOC'S-54 COMP	2000	164454-27876	02-02-12E	04/07/12	100
02SI	020232-02	Vinyl Acetate	2000	182701-30110	01-18-12C	03/11/12	100
02SI	020620-02	n-Hexane	1000	163378-29232	01-25-12L	04/07/12	200
02SI	020546-02	Heptane	1000	169174-28326	01-25-12N	04/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3300
02-02-12P							
50ug/ml Vol Work Std #2							
Exp:02/08/12							
Supplier	ID #	ID	ug/ml				
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-29214	02-02-12F	02/08/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3900
		02-02-12Q	Exp:	02/08/12			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		02-02-12M	02/08/12	200	
		50ug/ml Vol Work Std #8		02-02-12O	02/08/12	200	
		J&T Brand		02/02/12	06/08/12	1600	
		02-02-12R	Exp:	02/08/12			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		02-02-12N	02/08/12	200	
		J&T Brand		02/02/12	06/08/12	1800	

		02-02-12S	Exp:	02/08/12			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	[illegible]	
		50ug/ml Vol Work Std #2		02-02-12P	02/08/12	200	
		J&T Brand		02/02/12	06/08/12	1800	
02-02-12T							
50ug/ml 8260 Surrogate			Conc.		Date	Exp	
Exp:02/08/12			ug/ml	Lot #	Code	Date	
O2SI	120002-01	8260B Surr Solution	2000	178653-29568	02-02-12G	02/08/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1800
02-02-12U			Exp:	02/08/12			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	[illegible]	
		50ug/ml 8260 Surrogate		02-02-12T	02/08/12	200	
J&T Brand		Purge & Trap MeOH		02/02/12	06/08/12	1800	
02-02-12V							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/08/12			Conc.		Date	Exp	
Supplier	ID #		ug/ml	Lot #	Code	Date	
O2SI	120166-01	Volatile Mix 4-3	2000	178651-29804	02-02-12H	02/07/12	200
O2SI	020229-09	Acrolein	10000	184364-30245	02-02-12I	01/21/12	1000
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1800

2/02/12 RS

02-02-12W							
50ug/ml VOC Std#5							
Exp:02/08/12							
			Conc.		Date	Exp	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	
O2SI	120016-03-SS	8260 Gases(SS)	2000	178557-29517	02-02-12J	02/08/12	200
O2SI	020145-02-02-	2-CEVE	2000	181404-30007	01-09-12H	02/14/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1800
02-02-12X							
50ug/ml VOC Std#6							
Exp:02/08/12							
	ID #	ID	ug/ml	Lot #	Code	Date	
O2SI	120023-03-SS	VOC'S 54 COMP.	2000	163271-27775	01-09-12I	02/14/12	200
O2SI	120296-01	Custom 8260 Solution	2000	166038-27771	01-09-12J	02/14/12	200
O2SI	020232-02-SS	Vinyl Acetate(SS)	2000	178905-29558	01-25-12D	02/05/12	200
O2SI	020620-02-SS	n-HEXANE	1000	179199-29612	01-25-12F	02/14/12	100
O2SI	020049-02-SS	HEXACHLOROETHANE	1000	183795-30198	02-02-12K	02/29/12	100
O2SI	020546-02-SS	Heptane(SS)	1000	142276-23578	01-25-12J	02/14/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1800
02-02-12Y							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/08/12			Conc.		Date	Exp	
Supplier	ID #		ug/ml	Lot #	Code	Date	
O2SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	163778-29836	02-02-12L	02/14/12	200
O2SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	184365-30247	01-18-12AP	02/25/12	1000
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1800

2/02/12 RS.

RS 2/02/12

02-02-12Z							
50ug/ml Vol Work Std #7							
Exp:02/08/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	120016-03	Gas Mix	2000	167931-28287	02-02-12A	02/08/12	100
O2SI	020049-02	HEXACHLOROETHANE	1000	164816-29160	02-02-12B	04/07/12	200
O2SI	020228-02	Benzyl Chloride	1000	176701-29774	02-02-12C	04/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3500
02-02-12AA							
50ug/ml Vol Work Std #1							
Exp:02/08/12							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	020145-02-02	2-CEVE	2000	160092-26541	01-25-12K	04/07/12	50
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1950
02-02-12AB							
50ug/ml Vol Work Std #8							
Exp:02/08/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	122039-02	Volatile Mix, 20-29	2000	176771-29198	02-02-12D	04/07/12	100
O2SI	120023-03	VOC'S-54 COMP	2000	164454-27878	02-02-12E	04/07/12	100
O2SI	020232-02	Vinyl Acetate	2000	182701-30110	01-18-12C	03/11/12	100
O2SI	020620-02	n-Hexane	1000	163378-29232	01-25-12L	04/07/12	200
O2SI	020546-02	Heptane	1000	169174-28326	01-25-12N	04/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3300
02-02-12AC							
50ug/ml Vol Work Std #2							
Exp:02/08/12							
Supplier	ID #	ID	ug/ml				
O2SI	121020-05	HSL'S-Ketone Solution	2000	169173-29214	02-02-12F	02/08/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3900
		02-02-12AD	Exp:	02/08/12			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		02-02-12Z	02/08/12	200	
		50ug/ml Vol Work Std #8		02-02-12AB	02/08/12	200	
		J&T Brand		02/02/12	06/08/12	1600	
		02-02-12AE	Exp:	02/08/12			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		02-02-12AA	02/08/12	200	
		J&T Brand		02/02/12	06/08/12	1800	
		02-02-12AF	Exp:	02/08/12			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		02-02-12AC	02/08/12	200	
		J&T Brand		02/02/12	06/08/12	1800	
02-02-12AG							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:02/08/12			ug/ml	Lot #	Code	Date	uL
O2SI	120002-01	8260B Surr Solution	2000	178653-29568	02-02-12G	02/08/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3900
02-02-12AH			Exp:	02/08/12			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		02-02-12AG	02/08/12	200	
J&T Brand		Purge & Trap MeOH		02/02/12	06/08/12	1800	
02-02-12AI							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/08/12			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120166-01	Volatile Mix 4-3	2000	178651-29804	02-02-12H	02/07/12	500
O2SI	020229-09	Acrolein	10000	184364-30245	02-02-12I	01/21/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3400

Sweetpea 524						
02-02-12AJ						
50ug/ml 524 Internal Standard w/ Surrogate			Conc. ug/ml	Lot #	Date Code	Date Exp.
02SI	122450-02	524 Fortification Sol	1000	166726-27967	01-31-12A	08/20/12
J.T.Baker		Purge & Trap MeOH		K07E34-00574	02/02/12	10/14/12

2/02/12 RS.

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

	Expiration Date:	5µg/mL Vol Std #9	5µg/mL Vol Std #12	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Vol Std #2	250µg/mL TAPD	Final Vol
Date	Conc.	02-02-12Q	02-02-12S	02-02-12M	02-02-12O	02-02-12P	02-02-12V	w/P&T H2O
Code	µg/L	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	mL
02-02-12AK	0.2	2	2	n/a	n/a	n/a	2	50
02-02-12AL	0.5	5	5	n/a	n/a	n/a	5	50
02-02-12AM	1	10	10	n/a	n/a	n/a	10	50
02-02-12AN	5	n/a	n/a	5	5	40	20	50
02-02-12AO	10	n/a	n/a	10	10	20	25	50
02-02-12AP	20	n/a	n/a	20	20	20	30	50
02-02-12AQ	40	n/a	n/a	40	40	100	35	50

2/02/12 RS.

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

	Expiration Date:	02/03/12								
		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 #1	50µg/mL Vol Std #2	Co
Date	Conc.	02-02-12AD	02-02-12AH	02-02-12Z	02-02-12AB	02-02-12AG	02-02-12AE	02-02-12AA	02-02-12AC	
Code	µg/L	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	
02-02-12AR	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	
02-02-12AS	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	
02-02-12AT	1	10	20	n/a	n/a	n/a	10	n/a	n/a	
02-02-12AU	5	n/a	n/a	5	5	10	n/a	5	60	
02-02-12AV	10	n/a	n/a	10	10	25	n/a	10	10	
02-02-12AW	20	n/a	n/a	20	20	40	n/a	20	20	
02-02-12AX	40	n/a	n/a	40	40	80	n/a	40	40	
02-02-12AY	100	n/a	n/a	100	100	100	n/a	100	100	

2/02/12 RS.

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

	Expiration Date:	02/03/12							
		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 #1	50µg/mL Vol Std #2
Date	Conc.	02-02-12Q	02-02-12U	02-02-12M	02-02-12O	02-02-12T	02-02-12R	02-02-12N	02-02-12P
Code	µg/L	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12
02-02-12AZ	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a
02-02-12BA	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a
02-02-12BB	1	10	20	n/a	n/a	n/a	10	n/a	n/a
02-02-12BC	5	n/a	n/a	5	5	10	n/a	5	60
02-02-12BD	10	n/a	n/a	10	10	25	n/a	10	10
02-02-12BE	40	n/a	n/a	40	40	80	n/a	40	40
02-02-12BF	100	n/a	n/a	100	100	100	n/a	100	100
02-02-12BG	200	n/a	n/a	200	200	125	n/a	200	200

2/02/12 RS.

Gasoline Curve Preparation for 100mL Purge (water)-CHICO

	Expiration Date:	02/03/12	
		50µg/mL Gasoline	Final Vol
Date	Conc.	01-26-12G	w/P&T H2O
Code	µg/L	Exp:01-03-12	mL
02-02-12BH	20	1	100
02-02-12BI	50	2.5	100
02-02-12BJ	100	5	100
02-02-12BK	300	15	100
02-02-12BL	600	30	100
02-02-12BM	800	40	100
02-02-12BN	1000	50	100

2/02/12 RS.

Injection Log

Directory: M:\CHICO\DATA\C120125

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0125C24T.D	1	25ug/mL BFB Std. 01-12-12	Water 2uL	01/26/2012 16:30
2	1	0125C28W.D	1	VOC Mix Marker	Water 10mLw/ IS:12-06-	01/26/2012 18:55
3	1	0125C29W.D	1	Vol. Std. 01-26-12@20ug/L	Water 10mLw/ IS:12-06-	01/26/2012 19:32
4	1	0125C30W.D	1	Vol. Std. 01-26-12@50ug/L	Water 10mLw/ IS:12-06-	01/26/2012 20:09
5	1	0125C31W.D	1	Vol. Std. 01-26-12@100ug/L	Water 10mLw/ IS:12-06-	01/26/2012 20:46
6	1	0125C32W.D	1	Vol. Std. 01-26-12@300ug/L	Water 10mLw/ IS:12-06-	01/26/2012 21:24
7	1	0125C33W.D	1	Vol. Std. 01-26-12@600ug/L	Water 10mLw/ IS:12-06-	01/26/2012 22:01
8	1	0125C34W.D	1	Vol. Std. 01-26-12@800ug/L	Water 10mLw/ IS:12-06-	01/26/2012 22:38
9	1	0125C35W.D	1	Vol. Std. 01-26-12@1000ug/L	Water 10mLw/ IS:12-06-	01/26/2012 23:15
10	1	0125C38W.D	1	Second Source 01-26-12	Water 10mLw/ IS:12-06-	01/27/2012 01:06

Injection Log

Directory: M:\CHICO\DATA\C120202

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0202C00T.D	1	25ug/mL BFB Std. 01-12-12	2uL	02/02/2012 14:16
2	1	0202C05W.D	1	Vol Std 02-02-12@0.3ug/L	Water 10mLw/ IS:01-31-	02/02/2012 17:16
3	1	0202C06W.D	1	Vol Std 02-02-12@0.5ug/L	Water 10mLw/ IS:01-31-	02/02/2012 17:53
4	1	0202C07W.D	1	Vol Std 02-02-12@1.0ug/L	Water 10mLw/ IS:01-31-	02/02/2012 18:30
5	1	0202C08W.D	1	Vol Std 02-02-12@5.0ug/L	Water 10mLw/ IS:01-31-	02/02/2012 19:08
6	1	0202C09W.D	1	Vol Std 02-02-12@10ug/L	Water 10mLw/ IS:01-31-	02/02/2012 19:45
7	1	0202C10W.D	1	Vol Std 02-02-12@40ug/L	Water 10mLw/ IS:01-31-	02/02/2012 20:22
8	1	0202C11W.D	1	Vol Std 02-02-12@100ug/L	Water 10mLw/ IS:01-31-	02/02/2012 20:59
9	1	0202C12W.D	1	Vol Std 02-02-12@200ug/L	Water 10mLw/ IS:01-31-	02/02/2012 21:36
10	1	0203C02W.D	1	25ug/L BFB Std. 01-12-12	2uL	02/03/2012 10:44
11	1	0203C04W.D	1	10ug/L Vol Std 02-03-12	Water 10mLw/ IS&S:01-	02/03/2012 11:58
12	1	0203C05W.D	1	120203A LCS-1WC	Water 10mLw/ IS&S:01-	02/03/2012 12:35
13	1	0203C12W.D	1	120203A BLK-1WC	Water 10mLw/ IS&S:01-	02/03/2012 16:54
14	1	0203C13W.D	1	AY54076W01	Water 10mLw/ IS&S:01-	02/03/2012 17:31
15	1	0203C14W.D	1	AY54074W01	Water 10mLw/ IS&S:01-	02/03/2012 18:08
16	1	0203C15W.D	1	AY54075W01	Water 10mLw/ IS&S:01-	02/03/2012 18:46

Injection Log

Directory: M:\CHICO\DATA\C120202

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0203C02W.D	1	25ug/L BFB Std. 01-12-12	2uL	02/03/2012 10:44
2	1	0203C07W.D	1	GAS CCV 300ug/L	Water 10mLw/ IS&S:01-	02/03/2012 13:48
3	1	0203C08W.D	1	120203A GAS LCS-1WC	Water 10mLw/ IS&S:01-	02/03/2012 14:26
4	1	0203C12W.D	1	120203A BLK-1WC	Water 10mLw/ IS&S:01-	02/03/2012 16:54
5	1	0203C13W.D	1	AY54076W01	Water 10mLw/ IS&S:01-	02/03/2012 17:31
6	1	0203C14W.D	1	AY54074W01	Water 10mLw/ IS&S:01-	02/03/2012 18:08
7	1	0203C15W.D	1	AY54075W01	Water 10mLw/ IS&S:01-	02/03/2012 18:46

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.22 U	0.5	0.22	0.11	ug/L	02/06/12	02/06/12	#602D-120206A-AY54075

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	50.9	102	80-120	02/06/12	02/06/12	#602D-120206A-AY54075

Comments: _____

Printed: 02/07/12 11:56:26 AM
APPL Standard LCS

Matrix Spike Recoveries

METALS

APPL ID: **120206W-54075 MS - 163672**

Sample ID: AY54075

Client ID: ES063

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	50.0	ND	51.2	49.8	102	99.6	2.8	20	80-120	02/06/12	02/06/12	02/06/12	02/06/12	163672	AY54075

Comments: _____

Printed: 02/07/12 12:25:51 PM
APPL MSD SCII

METALS
Sample Data

APPL, INC.

Metals Analysis

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

Attn: Stacey Fineran
Project: RED HILL/1022-015
Sample ID: ES062
Sample Collection Date: 02/01/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66864
APPL ID: AY54074

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	02/06/12	02/06/12

Printed: 02/07/12 11:56:29 AM
APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\049SMPL.D\049SMPL.D#
Date Acquired: Feb 6 2012 02:45 pm
Operator: NBS
Sample Name: AY54074W08
Misc Info: 120206A-3015
Vial Number: 3208
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
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	58.25	1000	
11 B	95.36 ug/l	105.94	1.02	1000	
23 Na	45920.00 ug/l	51017.12	0.77	25000	>Cal
24 Mg	20030.00 ug/l	22253.33	0.46	50000	
27 Al	14.31 ug/l	15.90	10.58	20000	
39 K	2736.00 ug/l	3039.70	0.83	20000	
44 Ca	21310.00 ug/l	23675.41	1.89	50000	
47 Ti	0.31 ug/l	0.35	16.16	1000	
51 V	14.04 ug/l	15.60	1.38	1000	
52 Cr	2.54 ug/l	2.83	0.61	1000	
55 Mn	0.59 ug/l	0.66	4.53	1000	
56 Fe	11.94 ug/l	13.27	0.33	20000	
59 Co	0.14 ug/l	0.15	2.19	1000	
60 Ni	0.38 ug/l	0.42	8.72	1000	
63 Cu	0.53 ug/l	0.59	3.07	1000	
65 Cu	0.57 ug/l	0.63	6.84	1000	
66 Zn	5.67 ug/l	6.30	1.13	1000	
75 As	0.11 ug/l	0.12	12.15	1000	
78 Se	0.27 ug/l	0.30	7.86	1000	
78 Se	0.37 ug/l	0.41	56.05	1000	
88 Sr	162.00 ug/l	179.98	1.30	1000	
88 Sr	152.90 ug/l	169.87	1.23	1000	
95 Mo	0.40 ug/l	0.44	9.81	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	0.01 ug/l	0.01	16.72	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.04 ug/l	0.04	15.76	1000	
118 Sn	0.27 ug/l	0.30	13.95	#######	
118 Sn	0.30 ug/l	0.33	6.10	#######	
118 Sn	0.27 ug/l	0.30	8.84	1000	
121 Sb	0.54 ug/l	0.60	4.08	1000	
137 Ba	8.19 ug/l	9.10	3.03	1000	
205 Tl	0.03 ug/l	0.04	4.98	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	0.09 ug/l	0.10	5.97	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4418150.00	0.45	4212829.50	104.9	70 - 120	
45 Sc	3271421.00	0.27	3129997.00	104.5	70 - 120	
45 Sc	398874.44	0.17	374863.19	106.4	70 - 120	
45 Sc	6630472.00	1.74	6356509.50	104.3	70 - 120	
72 Ge	769197.13	0.75	759125.06	101.3	70 - 120	
72 Ge	252182.31	1.47	242212.13	104.1	70 - 120	
72 Ge	1360374.00	1.23	1323101.00	102.8	70 - 120	
115 In	6261676.50	0.93	6165936.00	101.6	70 - 120	
115 In	2579185.50	1.43	2507645.00	102.9	70 - 120	
115 In	8982357.00	1.19	8531235.00	105.3	70 - 120	
159 Tb	12569932.00	0.90	11555126.00	108.8	70 - 120	
165 Ho	12211544.00	0.31	11054040.00	110.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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

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/1022-015
Sample ID: ES063
Sample Collection Date: 02/01/12

ARF: 66864
APPL ID: AY54075

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	02/06/12	02/06/12

Printed: 02/07/12 11:56:30 AM
APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\050SMPL.D\050SMPL.D#
Date Acquired: Feb 6 2012 02:51 pm
Operator: NBS
Sample Name: AY54075W08
Misc Info: 120206A-3015
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
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	0.00	ug/l	0.00	66.12	1000	
11 B	153.90	ug/l	170.98	0.46	1000	
23 Na	39930.00	ug/l	44362.23	1.24	25000	>Cal
24 Mg	11420.00	ug/l	12687.62	1.26	50000	
27 Al	7.86	ug/l	8.73	19.42	20000	
39 K	1983.00	ug/l	2203.11	1.94	20000	
44 Ca	9075.00	ug/l	10082.33	1.87	50000	
47 Ti	0.30	ug/l	0.33	52.70	1000	
51 V	20.37	ug/l	22.63	1.38	1000	
52 Cr	2.52	ug/l	2.80	0.68	1000	
55 Mn	0.87	ug/l	0.96	1.07	1000	
56 Fe	10.41	ug/l	11.57	1.90	20000	
59 Co	0.32	ug/l	0.35	1.85	1000	
60 Ni	0.36	ug/l	0.40	3.88	1000	
63 Cu	0.30	ug/l	0.33	6.64	1000	
65 Cu	0.29	ug/l	0.32	3.38	1000	
66 Zn	5.79	ug/l	6.43	2.03	1000	
75 As	0.18	ug/l	0.19	8.59	1000	
78 Se	0.13	ug/l	0.15	26.09	1000	
78 Se	0.11	ug/l	0.13	37.98	1000	
88 Sr	71.89	ug/l	79.87	0.33	1000	
88 Sr	70.96	ug/l	78.84	1.15	1000	
95 Mo	0.46	ug/l	0.51	3.07	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	0.01	ug/l	0.01	29.42	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.02	ug/l	0.02	61.73	1000	
118 Sn	0.19	ug/l	0.21	6.74	#######	
118 Sn	0.21	ug/l	0.23	7.63	#######	
118 Sn	0.20	ug/l	0.23	7.11	1000	
121 Sb	0.25	ug/l	0.28	5.13	1000	
137 Ba	3.55	ug/l	3.94	1.17	1000	
205 Tl	0.04	ug/l	0.04	12.59	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	0.07	ug/l	0.07	5.69	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4485752.00	1.53	4212829.50	106.5	70 - 120	
45 Sc	3339825.50	0.07	3129997.00	106.7	70 - 120	
45 Sc	405282.75	0.77	374863.19	108.1	70 - 120	
45 Sc	6601218.50	0.29	6356509.50	103.8	70 - 120	
72 Ge	783666.06	1.15	759125.06	103.2	70 - 120	
72 Ge	251668.09	2.13	242212.13	103.9	70 - 120	
72 Ge	1366236.50	0.79	1323101.00	103.3	70 - 120	
115 In	6317277.00	0.64	6165936.00	102.5	70 - 120	
115 In	2649480.80	1.17	2507645.00	105.7	70 - 120	
115 In	8921394.00	0.65	8531235.00	104.6	70 - 120	
159 Tb	12482422.00	0.45	11555126.00	108.0	70 - 120	
165 Ho	12019014.00	0.59	11054040.00	108.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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

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: 66864 SDG: 66864

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 02/06/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 10:16	%R(1)	True CCV1	Found 10:43	%R(1)	True CCV1	Found 14:18	%R(1)	
Lead (Pb)	100	106.5	107	50	48.52	97.0	50	48.69	97.4	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: 66864 SDG: 66864

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 02/06/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 10:16	%R(1)	True CCV1	Found 15:32	%R(1)	True	Found	%R(1)	
Lead (Pb)	100	106.5	107	50	48.8	97.6				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.: 66864 SDG: 66864

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 02/06/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C				C	
	10:36		10:50		14:24		15:45				14:31		
Lead (Pb)	.20	U	.20	U	.20	U	.20	U			.20	U	P

A.P.P.L. INC.

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Environet, Inc.
ARF No.:	66864	SDG:	66864
ICP ID Number:	Optimus	ICS Source:	Environmental Express

Analysis Date: 02/06/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 11:09	Sol AB 11:16	%R(1)
Lead (Pb)		500	0.8882	522	104

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

ES063

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66864 SDG: 66864

Analysis Date: 02/06/12 Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	280.053		0.0722943		277.500	101		

Comments:

02/06/12 14:51 AY54075W08

02/06/12 15:12 AY54075W08-A

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\053SMPL.D\053SMPL.D#
Date Acquired: Feb 6 2012 03:12 pm
Operator: NBS
Sample Name: AY54075W08-A
Misc Info: 120206A-3015
Vial Number: 3212
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
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	52.44	ug/l	58.26	1.44	1000	
11 B	475.00	ug/l	527.73	1.55	1000	
23 Na	63150.00	ug/l	70159.65	2.00	25000	>Cal
24 Mg	35600.00	ug/l	39551.60	1.12	50000	
27 Al	2167.00	ug/l	2407.54	1.36	20000	
39 K	7465.00	ug/l	8293.62	1.21	20000	
44 Ca	33980.00	ug/l	37751.78	0.91	50000	
47 Ti	242.70	ug/l	269.64	1.33	1000	
51 V	264.70	ug/l	294.08	1.48	1000	
52 Cr	250.80	ug/l	278.64	1.72	1000	
55 Mn	252.60	ug/l	280.64	1.68	1000	
56 Fe	1006.00	ug/l	1117.67	1.18	20000	
59 Co	239.60	ug/l	266.20	4.50	1000	
60 Ni	231.30	ug/l	256.97	0.80	1000	
63 Cu	227.20	ug/l	252.42	1.68	1000	
65 Cu	223.80	ug/l	248.64	1.99	1000	
66 Zn	435.80	ug/l	484.17	0.45	1000	
75 As	223.40	ug/l	248.20	0.64	1000	
78 Se	213.50	ug/l	237.20	0.47	1000	
78 Se	212.10	ug/l	235.64	0.65	1000	
88 Sr	339.80	ug/l	377.52	2.81	1000	
88 Sr	312.60	ug/l	347.30	1.92	1000	
95 Mo	234.80	ug/l	260.86	1.53	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	52.78	ug/l	58.64	2.07	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	46.46	ug/l	51.62	0.93	1000	
118 Sn	266.90	ug/l	296.53	3.87	########	
118 Sn	252.90	ug/l	280.97	0.38	########	
118 Sn	272.70	ug/l	302.97	0.31	1000	
121 Sb	248.70	ug/l	276.31	0.82	1000	
137 Ba	244.80	ug/l	271.97	1.30	1000	
205 Tl	242.20	ug/l	269.08	0.93	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	252.30	ug/l	280.31	0.70	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4713103.50	1.04	4212829.50	111.9	70 - 120	
45 Sc	3356039.00	1.24	3129997.00	107.2	70 - 120	
45 Sc	405983.16	1.05	374863.19	108.3	70 - 120	
45 Sc	6764177.50	1.22	6356509.50	106.4	70 - 120	
72 Ge	781268.00	1.81	759125.06	102.9	70 - 120	
72 Ge	250265.28	0.83	242212.13	103.3	70 - 120	
72 Ge	1371535.10	0.24	1323101.00	103.7	70 - 120	
115 In	6266243.50	0.88	6165936.00	101.6	70 - 120	
115 In	2615651.80	0.29	2507645.00	104.3	70 - 120	
115 In	8929211.00	1.40	8531235.00	104.7	70 - 120	
159 Tb	12490796.00	0.60	11555126.00	108.1	70 - 120	
165 Ho	12009665.00	0.53	11054040.00	108.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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

A.P.P.L. INC.

9

ICP SERIAL DILUTION

CLIENT SAMPLE NO.

ES063

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66864 SDG: 66864

Matrix: water

Analysis Date: 02/06/12 Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	%D	Q	M
Lead (Pb)	0.0722943		0.1674116		NA		

Comments:

02/06/12 14:51 AY54075W08

02/06/12 15:18 AY54075W08-1/5

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\054SMPL.D\054SMPL.D#
Date Acquired: Feb 6 2012 03:18 pm
Operator: NBS
Sample Name: AY54075W08-1/5
Misc Info: 120206A-3015
Vial Number: 3301
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
Sample Type: Sample
Prep Dil Factor: 5.56
Total Dil Factor: 5.56

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	0.00	ug/l	0.02	175.36	1000	
11 B	42.59	ug/l	236.63	1.67	1000	
23 Na	8259.00	ug/l	45887.00	2.07	25000	
24 Mg	2204.00	ug/l	12245.42	1.04	50000	
27 Al	1.42	ug/l	7.91	12.20	20000	
39 K	387.20	ug/l	2151.28	1.81	20000	
44 Ca	1822.00	ug/l	10123.03	2.25	50000	
47 Ti	0.13	ug/l	0.70	48.06	1000	
51 V	4.36	ug/l	24.20	1.51	1000	
52 Cr	0.64	ug/l	3.58	3.24	1000	
55 Mn	0.14	ug/l	0.80	15.37	1000	
56 Fe	2.63	ug/l	14.63	1.46	20000	
59 Co	0.06	ug/l	0.35	6.54	1000	
60 Ni	0.12	ug/l	0.69	12.91	1000	
63 Cu	0.05	ug/l	0.28	7.22	1000	
65 Cu	0.07	ug/l	0.40	37.14	1000	
66 Zn	1.42	ug/l	7.88	11.87	1000	
75 As	0.26	ug/l	1.46	3.70	1000	
78 Se	0.23	ug/l	1.27	9.60	1000	
78 Se	-0.06	ug/l	-0.31	167.41	1000	
88 Sr	14.39	ug/l	79.95	0.36	1000	
88 Sr	13.06	ug/l	72.56	1.09	1000	
95 Mo	0.31	ug/l	1.73	6.14	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	0.04	ug/l	0.22	15.78	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.01	ug/l	0.03	144.69	1000	
118 Sn	1.03	ug/l	5.72	1.75	#######	
118 Sn	1.09	ug/l	6.03	0.43	#######	
118 Sn	1.00	ug/l	5.54	1.25	1000	
121 Sb	2.56	ug/l	14.25	3.69	1000	
137 Ba	0.73	ug/l	4.08	3.11	1000	
205 Tl	0.03	ug/l	0.14	4.19	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	0.03	ug/l	0.17	5.95	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4222185.50	1.63	4212829.50	100.2	70 - 120	
45 Sc	3410800.30	0.91	3129997.00	109.0	70 - 120	
45 Sc	414725.88	1.06	374863.19	110.6	70 - 120	
45 Sc	6577352.00	0.39	6356509.50	103.5	70 - 120	
72 Ge	830134.31	0.56	759125.06	109.4	70 - 120	
72 Ge	264672.56	1.92	242212.13	109.3	70 - 120	
72 Ge	1424877.60	0.68	1323101.00	107.7	70 - 120	
115 In	6815149.00	0.44	6165936.00	110.5	70 - 120	
115 In	2790216.30	0.42	2507645.00	111.3	70 - 120	
115 In	9433090.00	0.34	8531235.00	110.6	70 - 120	
159 Tb	13237786.00	0.64	11555126.00	114.6	70 - 120	
165 Ho	12831697.00	1.04	11054040.00	116.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\12B06j01.B\004CAL
Date Acquired:	Feb 6 2012 09:42 am
Operator:	NBS
Sample Name:	Calibration Blank
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File:	C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update:	Feb 06 2012 09:39 am
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	4212829.00	A	40020.00	0.95
7	(Li)	240981.59	P	961.80	0.40
9	Be	17.78	P	10.71	60.24
11	B	94139.32	P	921.60	0.98
23	Na	51538.70	P	296.80	0.58
24	Mg	148.90	P	12.62	8.48
27	Al	108.89	P	12.62	11.59
39	K	32194.69	P	608.70	1.89
44	Ca	1175.16	P	46.98	4.00
45	Sc	3129997.00	A	35450.00	1.13
45	Sc	374863.19	A	3347.00	0.89
45	Sc	6356510.00	A	17370.00	0.27
47	Ti	1.78	P	2.04	114.58
51	V	77.78	P	12.32	15.84
52	Cr	196.00	P	7.42	3.79
55	Mn	255.12	P	16.13	6.32
56	Fe	2900.33	P	96.05	3.31
59	Co	42.67	P	11.85	27.77
60	Ni	59.11	P	2.04	3.45
63	Cu	675.58	P	46.98	6.95
65	Cu	294.67	P	9.33	3.17
66	Zn	980.05	P	45.04	4.60
72	Ge	759125.00	A	8018.00	1.06
72	Ge	242212.09	A	3963.00	1.64
72	Ge	1323101.00	A	8105.00	0.61
75	As	14.56	P	2.12	14.54
78	Se	9.67	P	2.67	27.59
78	Se	97.00	P	4.51	4.65
88	Sr	106.67	P	15.28	14.32
88	Sr	920.06	P	29.06	3.16
95	Mo	58.89	P	16.44	27.92
106	(Cd)	8.89	P	5.09	57.28
107	Ag	78.89	P	18.95	24.02
108	(Cd)	11.11	P	6.94	62.45
111	Cd	7.74	P	9.02	116.52
115	In	6165936.00	A	44020.00	0.71
115	In	2507645.00	A	11000.00	0.44
115	In	8531235.00	A	54590.00	0.64
118	Sn	210.01	P	20.27	9.65
118	Sn	91.11	P	8.39	9.21
118	Sn	282.24	P	17.11	6.06
121	Sb	173.34	P	3.33	1.92
137	Ba	70.00	P	8.82	12.60
159	Tb	11555130.00	A	139600.00	1.21
165	Ho	11054040.00	A	55410.00	0.50
205	Tl	203.34	P	41.77	20.54
206	(Pb)	406.69	P	31.80	7.82
207	(Pb)	327.79	P	25.89	7.90
208	Pb	1516.76	P	64.29	4.24

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\005CALS.D\005CALS.D#
Date Acquired: Feb 6 2012 09:49 am
Operator: NBS
Sample Name: 120206 Standard 1
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 09:46 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3765025.00	A	11150.00	0.30	0.0000
7 (Li)	219059.00	P	1605.00	0.73	0.0000
9 Be	300.01	P	17.64	5.88	0.0000
11 B	94933.66	P	1164.00	1.23	0.0000
23 Na	54521.35	P	731.10	1.34	0.0000
24 Mg	1093.41	P	78.61	7.19	0.0000
27 Al	218.90	P	13.88	6.34	0.0000
39 K	33527.69	P	316.30	0.94	0.0000
44 Ca	1436.12	P	38.09	2.65	0.0000
45 Sc	3051676.00	A	7150.00	0.23	0.0000
45 Sc	355214.81	A	4375.00	1.23	0.0000
45 Sc	6043290.00	A	14730.00	0.24	0.0000
47 Ti	10.67	P	2.67	25.00	0.0000
51 V	447.12	P	39.58	8.85	0.0000
52 Cr	679.14	P	16.07	2.37	0.0000
55 Mn	326.68	P	30.55	9.35	0.0000
56 Fe	8547.49	P	18.88	0.22	0.0000
59 Co	424.90	P	24.74	5.82	0.0000
60 Ni	183.56	P	2.78	1.51	0.0000
63 Cu	997.83	P	51.23	5.13	0.0000
65 Cu	459.12	P	13.42	2.92	0.0000
66 Zn	1822.36	P	55.15	3.03	0.0000
72 Ge	738861.31	A	1542.00	0.21	0.0000
72 Ge	234516.80	A	1932.00	0.82	0.0000
72 Ge	1283780.00	A	12050.00	0.94	0.0000
75 As	59.78	P	5.89	9.85	0.0000
78 Se	29.00	P	4.70	16.21	0.0000
78 Se	109.89	P	7.51	6.84	0.0000
88 Sr	488.92	P	23.65	4.84	0.0000
88 Sr	2945.96	P	177.40	6.02	0.0000
95 Mo	410.02	P	29.06	7.09	0.0000
106 (Cd)	20.00	P	6.67	33.33	0.0000
107 Ag	566.70	P	37.12	6.55	0.0000
108 (Cd)	15.56	P	1.93	12.38	0.0000
111 Cd	205.34	P	27.12	13.21	0.0000
115 In	6072667.00	A	47690.00	0.79	0.0000
115 In	2406585.00	A	33600.00	1.40	0.0000
115 In	8316700.00	A	50180.00	0.60	0.0000
118 Sn	1132.31	P	55.42	4.89	0.0000
118 Sn	447.80	P	27.96	6.24	0.0000
118 Sn	1509.02	P	48.57	3.22	0.0000
121 Sb	1885.75	P	74.57	3.95	0.0000
137 Ba	388.91	P	49.14	12.64	0.0000
159 Tb	11346150.00	A	68260.00	0.60	0.0000
165 Ho	10854000.00	A	82460.00	0.76	0.0000
205 Tl	1884.65	P	76.20	4.04	0.0000
206 (Pb)	907.84	P	66.20	7.29	0.0000
207 (Pb)	845.61	P	57.48	6.80	0.0000
208 Pb	3908.16	P	149.30	3.82	0.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3765024.50	0.30	4212829.50	89.4	70 -	120	
45 Sc	3051675.80	0.23	3129997.00	97.5	70 -	120	
45 Sc	355214.84	1.23	374863.19	94.8	70 -	120	
45 Sc	6043290.50	0.24	6356509.50	95.1	70 -	120	
72 Ge	738861.31	0.21	759125.06	97.3	70 -	120	
72 Ge	234516.78	0.82	242212.13	96.8	70 -	120	
72 Ge	1283779.60	0.94	1323101.00	97.0	70 -	120	
115 In	6072667.00	0.79	6165936.00	98.5	70 -	120	
115 In	2406584.80	1.40	2507645.00	96.0	70 -	120	
115 In	8316700.00	0.60	8531235.00	97.5	70 -	120	
159 Tb	11346153.00	0.60	11555126.00	98.2	70 -	120	
165 Ho	10854004.00	0.76	11054040.00	98.2	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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\12B06j01.B\006CALS.D\006CALS.D#
Date Acquired: Feb 6 2012 09:56 am
Operator: NBS
Sample Name: 120206 Standard 2
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 09:53 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3797354.00	A	28390.00	0.75	0.0000
7 (Li)	219266.09	P	557.60	0.25	-1.0000
9 Be	2928.17	P	28.75	0.98	1.0000
11 B	95789.56	P	414.10	0.43	1.0000
23 Na	61356.75	P	342.40	0.56	1.0000
24 Mg	8533.85	P	36.91	0.43	1.0000
27 Al	1373.44	P	44.86	3.27	1.0000
39 K	36217.51	P	532.20	1.47	1.0000
44 Ca	1949.60	P	76.88	3.94	1.0000
45 Sc	3086152.00	A	2197.00	0.07	0.0000
45 Sc	358663.09	A	611.80	0.17	0.0000
45 Sc	6112466.00	A	62510.00	1.02	0.0000
47 Ti	74.67	P	3.53	4.72	1.0000
51 V	2486.47	P	160.00	6.43	1.0000
52 Cr	2901.66	P	59.74	2.06	1.0000
55 Mn	1761.46	P	29.49	1.67	1.0000
56 Fe	48411.55	P	139.30	0.29	1.0000
59 Co	3706.30	P	52.23	1.41	1.0000
60 Ni	1021.83	P	58.21	5.70	1.0000
63 Cu	3227.07	P	49.97	1.55	1.0000
65 Cu	1561.88	P	18.49	1.18	1.0000
66 Zn	2115.29	P	52.17	2.47	1.0000
72 Ge	741001.00	A	1424.00	0.19	0.0000
72 Ge	236763.20	A	4597.00	1.94	0.0000
72 Ge	1292602.00	A	11010.00	0.85	0.0000
75 As	388.45	P	7.07	1.82	1.0000
78 Se	201.34	P	8.51	4.23	1.0000
78 Se	134.11	P	7.12	5.31	1.0000
88 Sr	2929.29	P	55.52	1.90	1.0000
88 Sr	19883.43	P	35.38	0.18	1.0000
95 Mo	3626.15	P	115.00	3.17	1.0000
106 (Cd)	194.45	P	10.18	5.24	1.0000
107 Ag	4891.02	P	127.50	2.61	1.0000
108 (Cd)	132.23	P	13.88	10.50	1.0000
111 Cd	1985.68	P	40.94	2.06	1.0000
115 In	6044227.00	A	25490.00	0.42	0.0000
115 In	2454632.00	A	19830.00	0.81	0.0000
115 In	8296703.00	A	42410.00	0.51	0.0000
118 Sn	4398.63	P	56.03	1.27	1.0000
118 Sn	1965.76	P	59.85	3.04	1.0000
118 Sn	6291.61	P	162.00	2.57	1.0000
121 Sb	7004.20	P	205.80	2.94	1.0000
137 Ba	2887.07	P	129.00	4.47	1.0000
159 Tb	11405730.00	A	94040.00	0.82	0.0000
165 Ho	11046990.00	A	64600.00	0.58	0.0000
205 Tl	17271.81	P	185.80	1.08	1.0000
206 (Pb)	6475.15	P	121.80	1.88	1.0000
207 (Pb)	5595.84	P	83.39	1.49	1.0000
208 Pb	25512.71	P	152.10	0.60	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3797354.00	0.75	4212829.50	90.1	70 -	120	
45 Sc	3086152.00	0.07	3129997.00	98.6	70 -	120	
45 Sc	358663.16	0.17	374863.19	95.7	70 -	120	
45 Sc	6112466.00	1.02	6356509.50	96.2	70 -	120	
72 Ge	741001.00	0.19	759125.06	97.6	70 -	120	
72 Ge	236763.19	1.94	242212.13	97.8	70 -	120	
72 Ge	1292601.60	0.85	1323101.00	97.7	70 -	120	
115 In	6044227.50	0.42	6165936.00	98.0	70 -	120	
115 In	2454631.50	0.81	2507645.00	97.9	70 -	120	
115 In	8296703.50	0.51	8531235.00	97.3	70 -	120	
159 Tb	11405735.00	0.82	11555126.00	98.7	70 -	120	
165 Ho	11046985.00	0.58	11054040.00	99.9	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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\12B06j01.B\007CALS.D\007CALS.D#
Date Acquired: Feb 6 2012 10:03 am
Operator: NBS
Sample Name: 120206 Standard 3
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:00 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3775566.00	A	31300.00	0.83	0.0000
7 (Li)	218921.50	P	580.70	0.27	-0.5698
9 Be	139528.20	P	1385.00	0.99	1.0000
11 B	175873.00	P	818.40	0.47	0.5462
23 Na	475412.19	P	1746.00	0.37	0.9189
24 Mg	411593.19	P	5389.00	1.31	0.9999
27 Al	61404.02	P	1233.00	2.01	1.0000
39 K	249575.91	P	1470.00	0.59	0.8746
44 Ca	28731.81	P	308.70	1.07	0.9517
45 Sc	3099770.00	A	24940.00	0.80	0.0000
45 Sc	364816.81	A	8829.00	2.42	0.0000
45 Sc	6191224.00	A	32390.00	0.52	0.0000
47 Ti	3675.18	P	28.39	0.77	0.9997
51 V	106679.40	P	1290.00	1.21	0.9985
52 Cr	123040.10	P	931.50	0.76	0.9966
55 Mn	80913.31	P	150.90	0.19	0.9992
56 Fe	2283698.00	A	20940.00	0.92	0.9996
59 Co	177881.41	P	1069.00	0.60	1.0000
60 Ni	45241.98	P	225.50	0.50	0.9995
63 Cu	124101.90	P	556.70	0.45	0.9992
65 Cu	61156.97	P	391.20	0.64	0.9992
66 Zn	26274.98	P	176.00	0.67	0.7363
72 Ge	749072.00	A	2942.00	0.39	0.0000
72 Ge	236032.09	A	1029.00	0.44	0.0000
72 Ge	1307047.00	A	21270.00	1.63	0.0000
75 As	18236.80	P	95.68	0.52	0.9997
78 Se	9748.86	P	116.50	1.20	1.0000
78 Se	1861.57	P	12.31	0.66	0.9349
88 Sr	136525.80	P	653.50	0.48	0.9993
88 Sr	1009362.00	A	11010.00	1.09	1.0000
95 Mo	176085.50	P	1006.00	0.57	1.0000
106 (Cd)	8580.70	P	9.63	0.11	0.9993
107 Ag	229793.41	P	2629.00	1.14	1.0000
108 (Cd)	6587.32	P	58.76	0.89	0.9983
111 Cd	95783.11	P	495.70	0.52	1.0000
115 In	6137938.00	A	79150.00	1.29	0.0000
115 In	2464784.00	A	31110.00	1.26	0.0000
115 In	8439187.00	A	26460.00	0.31	0.0000
118 Sn	191679.59	P	3353.00	1.75	0.9928
118 Sn	86429.87	P	600.20	0.69	0.9955
118 Sn	269510.69	P	1257.00	0.47	0.9946
121 Sb	371810.19	P	2567.00	0.69	0.9884
137 Ba	141835.20	P	943.90	0.67	0.9999
159 Tb	11543240.00	A	95250.00	0.83	0.0000
165 Ho	11152410.00	A	63570.00	0.57	0.0000
205 Tl	859574.00	P	3670.00	0.43	1.0000
206 (Pb)	301337.81	P	549.50	0.18	0.9999
207 (Pb)	260455.09	P	108.40	0.04	1.0000
208 Pb	1200842.00	P	5610.00	0.47	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6 Li	3775566.00	0.83	4212829.50	89.6	70	-	120	
45 Sc	3099770.50	0.80	3129997.00	99.0	70	-	120	
45 Sc	364816.75	2.42	374863.19	97.3	70	-	120	
45 Sc	6191223.50	0.52	6356509.50	97.4	70	-	120	
72 Ge	749072.00	0.39	759125.06	98.7	70	-	120	
72 Ge	236032.13	0.44	242212.13	97.4	70	-	120	
72 Ge	1307046.90	1.63	1323101.00	98.8	70	-	120	
115 In	6137938.00	1.29	6165936.00	99.5	70	-	120	
115 In	2464783.80	1.26	2507645.00	98.3	70	-	120	
115 In	8439187.00	0.31	8531235.00	98.9	70	-	120	
159 Tb	11543243.00	0.83	11555126.00	99.9	70	-	120	
165 Ho	11152408.00	0.57	11054040.00	100.9	70	-	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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\12B06j01.B\008CALS.D\008CALS.D#
Date Acquired: Feb 6 2012 10:09 am
Operator: NBS
Sample Name: 120206 Standard 4
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:06 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3859777.00	A	28990.00	0.75	0.0000
7 (Li)	220089.20	P	972.10	0.44	-0.3527
9 Be	284463.50	P	2575.00	0.91	1.0000
11 B	263041.50	P	2251.00	0.86	0.9984
23 Na	978324.50	A	7749.00	0.79	0.9999
24 Mg	887018.69	A	8716.00	0.98	1.0000
27 Al	121438.60	P	642.40	0.53	1.0000
39 K	472151.91	P	2321.00	0.49	0.9999
44 Ca	56224.78	P	621.90	1.11	1.0000
45 Sc	3100598.00	A	30820.00	0.99	0.0000
45 Sc	369991.91	A	4718.00	1.28	0.0000
45 Sc	6163227.00	A	78630.00	1.28	0.0000
47 Ti	7455.77	P	107.80	1.45	1.0000
51 V	215829.09	P	290.10	0.13	1.0000
52 Cr	247538.80	P	757.90	0.31	1.0000
55 Mn	162793.59	P	121.70	0.07	1.0000
56 Fe	4458993.00	A	28360.00	0.64	1.0000
59 Co	357064.09	P	2350.00	0.66	1.0000
60 Ni	91799.91	P	561.70	0.61	1.0000
63 Cu	249358.30	P	618.30	0.25	1.0000
65 Cu	122026.00	P	418.10	0.34	1.0000
66 Zn	51870.93	P	117.60	0.23	0.9996
72 Ge	759149.88	A	11770.00	1.55	0.0000
72 Ge	241411.20	A	2866.00	1.19	0.0000
72 Ge	1309155.00	A	3990.00	0.30	0.0000
75 As	36690.03	P	181.30	0.49	1.0000
78 Se	19775.63	P	219.70	1.11	1.0000
78 Se	3716.93	P	62.11	1.67	1.0000
88 Sr	275163.81	P	2086.00	0.76	1.0000
88 Sr	2042258.00	A	13260.00	0.65	1.0000
95 Mo	355371.00	P	668.70	0.19	1.0000
106 (Cd)	17483.67	P	380.30	2.18	1.0000
107 Ag	460028.91	P	2135.00	0.46	1.0000
108 (Cd)	13335.59	P	174.00	1.30	1.0000
111 Cd	191358.00	P	787.70	0.41	1.0000
115 In	6181545.00	A	79820.00	1.29	0.0000
115 In	2468192.00	A	26800.00	1.09	0.0000
115 In	8349947.00	A	75170.00	0.90	0.0000
118 Sn	389448.31	P	2962.00	0.76	1.0000
118 Sn	173281.91	P	1379.00	0.80	1.0000
118 Sn	546584.81	P	5681.00	1.04	1.0000
121 Sb	755823.88	P	1816.00	0.24	1.0000
137 Ba	284919.09	P	164.90	0.06	1.0000
159 Tb	11594730.00	A	128500.00	1.11	0.0000
165 Ho	11352390.00	A	118400.00	1.04	0.0000
205 Tl	1942446.00	A	18080.00	0.93	1.0000
206 (Pb)	608306.00	P	7798.00	1.28	1.0000
207 (Pb)	528159.31	P	2393.00	0.45	1.0000
208 Pb	2527412.00	A	12730.00	0.50	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3859777.30	0.75	4212829.50	91.6	70 -	120	
45 Sc	3100598.50	0.99	3129997.00	99.1	70 -	120	
45 Sc	369991.91	1.28	374863.19	98.7	70 -	120	
45 Sc	6163227.00	1.28	6356509.50	97.0	70 -	120	
72 Ge	759149.88	1.55	759125.06	100.0	70 -	120	
72 Ge	241411.20	1.19	242212.13	99.7	70 -	120	
72 Ge	1309154.60	0.30	1323101.00	98.9	70 -	120	
115 In	6181545.50	1.29	6165936.00	100.3	70 -	120	
115 In	2468191.80	1.09	2507645.00	98.4	70 -	120	
115 In	8349947.00	0.90	8531235.00	97.9	70 -	120	
159 Tb	11594730.00	1.11	11555126.00	100.3	70 -	120	
165 Ho	11352385.00	1.04	11054040.00	102.7	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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\12B06j01.B\009_QCS.D\009_QCS.D#
Date Acquired: Feb 6 2012 10:16 am
Operator: NBS
Sample Name: ICV 120206
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
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	104.60	ug/l	0.62	100.00	90 -	110	
11 B	108.10	ug/l	0.78	100.00	90 -	110	
23 Na	2650.00	ug/l	2.45	2500.00	90 -	110	
24 Mg	2436.00	ug/l	2.12	2500.00	90 -	110	
27 Al	2630.00	ug/l	2.47	2500.00	90 -	110	
39 K	2594.00	ug/l	1.60	2500.00	90 -	110	
44 Ca	2529.00	ug/l	1.65	2500.00	90 -	110	
47 Ti	104.40	ug/l	3.63	100.00	90 -	110	
51 V	104.90	ug/l	1.75	100.00	90 -	110	
52 Cr	108.70	ug/l	2.04	100.00	90 -	110	
55 Mn	109.10	ug/l	1.52	100.00	90 -	110	
56 Fe	2559.00	ug/l	2.26	2500.00	90 -	110	
59 Co	106.10	ug/l	1.66	100.00	90 -	110	
60 Ni	105.70	ug/l	3.44	100.00	90 -	110	
63 Cu	104.40	ug/l	2.93	100.00	90 -	110	
65 Cu	103.90	ug/l	2.16	100.00	90 -	110	
66 Zn	104.40	ug/l	0.20	100.00	90 -	110	
75 As	102.00	ug/l	0.86	100.00	90 -	110	
78 Se	106.90	ug/l	1.06	100.00	90 -	110	
78 Se	107.70	ug/l	0.55	100.00	90 -	110	
88 Sr	104.20	ug/l	0.58	100.00	90 -	110	
88 Sr	103.10	ug/l	1.20	100.00	90 -	110	
95 Mo	98.90	ug/l	1.09	100.00	90 -	110	
106 (Cd)	--------	ug/l	--------	100.00	90 -	110	
107 Ag	49.01	ug/l	1.70	50.00	90 -	110	
108 (Cd)	--------	ug/l	--------	100.00	90 -	110	
111 Cd	105.10	ug/l	0.59	100.00	90 -	110	
118 Sn	59.12	ug/l	16.03	50.00	90 -	110	Fail
118 Sn	52.18	ug/l	4.21	50.00	90 -	110	
118 Sn	58.05	ug/l	20.97	50.00	90 -	110	Fail
121 Sb	110.30	ug/l	1.10	100.00	90 -	110	~~Fail~~ = 110% ok SAH 2.6.12
137 Ba	101.80	ug/l	1.10	100.00	90 -	110	
205 Tl	106.30	ug/l	1.06	100.00	90 -	110	
206 (Pb)	--------	ug/l	--------	100.00	90 -	110	
207 (Pb)	--------	ug/l	--------	100.00	90 -	110	
208 Pb	106.50	ug/l	0.84	100.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3863596.80	0.70	4212829.50	91.7	70 -	120	
45 Sc	3153732.00	0.60	3129997.00	100.8	70 -	120	
45 Sc	370733.78	2.29	374863.19	98.9	70 -	120	
45 Sc	6256501.00	1.31	6356509.50	98.4	70 -	120	
72 Ge	761907.00	0.80	759125.06	100.4	70 -	120	
72 Ge	240176.61	0.62	242212.13	99.2	70 -	120	
72 Ge	1324694.60	1.10	1323101.00	100.1	70 -	120	
115 In	6246153.50	0.67	6165936.00	101.3	70 -	120	
115 In	2480556.30	0.47	2507645.00	98.9	70 -	120	
115 In	8523152.00	1.15	8531235.00	99.9	70 -	120	
159 Tb	11711898.00	0.79	11555126.00	101.4	70 -	120	
165 Ho	11265502.00	0.68	11054040.00	101.9	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.B\004CALB.D\004CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\012_CCB.D\012_CCB.D#
Date Acquired: Feb 6 2012 10:36 am
Operator: NBS
Sample Name: ICB 120206
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	########	
9 Be	0.00 ug/l	253.15	0.12	
11 B	-4.43 ug/l	14.15	15.00	
23 Na	-9.90 ug/l	3.86	77.10	
24 Mg	-0.10 ug/l	131.41	7.50	
27 Al	-0.37 ug/l	95.49	3.96	
39 K	-11.00 ug/l	28.31	19.20	
44 Ca	-1.86 ug/l	298.06	90.00	
47 Ti	0.02 ug/l	57.48	0.78	
51 V	-0.01 ug/l	98.94	0.21	
52 Cr	-0.01 ug/l	8.83	0.12	
55 Mn	0.00 ug/l	1467.60	0.18	
56 Fe	-0.05 ug/l	53.50	40.80	
59 Co	0.00 ug/l	170.75	0.09	
60 Ni	0.00 ug/l	146.03	0.48	
63 Cu	-0.04 ug/l	15.82	0.39	
65 Cu	-0.04 ug/l	37.71	0.39	
66 Zn	0.07 ug/l	295.11	6.90	
75 As	0.01 ug/l	26.96	0.27	
78 Se	0.03 ug/l	18.35	0.30	
78 Se	0.05 ug/l	422.00	0.30	
88 Sr	0.01 ug/l	68.04	0.03	
88 Sr	0.00 ug/l	459.38	0.03	
95 Mo	0.06 ug/l	3.76	0.21	
106 (Cd)	-------- ug/l	--------	########	
107 Ag	0.00 ug/l	74.89	0.09	
108 (Cd)	-------- ug/l	--------	########	
111 Cd	0.00 ug/l	2349.80	0.06	
118 Sn	0.01 ug/l	81.08	########	
118 Sn	0.01 ug/l	60.01	########	
118 Sn	0.01 ug/l	96.90	0.30	
121 Sb	0.10 ug/l	13.32	0.03	Fail
137 Ba	0.01 ug/l	53.09	0.12	
205 Tl	0.01 ug/l	40.01	0.03	
206 (Pb)	-------- ug/l	--------	########	
207 (Pb)	-------- ug/l	--------	########	
208 Pb	-0.01 ug/l	24.61	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4413906.50	0.08	4212829.50	104.8	70 - 120	
45 Sc	3505923.00	9.14	3129997.00	112.0	70 - 120	
45 Sc	387489.16	0.99	374863.19	103.4	70 - 120	
45 Sc	6505359.00	0.67	6356509.50	102.3	70 - 120	
72 Ge	844645.88	4.94	759125.06	111.3	70 - 120	
72 Ge	251024.75	0.54	242212.13	103.6	70 - 120	
72 Ge	1362653.50	0.34	1323101.00	103.0	70 - 120	
115 In	6974277.00	10.16	6165936.00	113.1	70 - 120	
115 In	2603407.50	0.95	2507645.00	103.8	70 - 120	
115 In	8807925.00	0.64	8531235.00	103.2	70 - 120	
159 Tb	11955784.00	0.76	11555126.00	103.5	70 - 120	
165 Ho	11546178.00	0.18	11054040.00	104.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\013_CCV.D\013_CCV.D#
Date Acquired: Feb 6 2012 10:43 am
Operator: NBS
Sample Name: CCV 120206
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
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	49.73	ug/l	1.10	50.00	90 - 110	
11 B	47.95	ug/l	1.49	50.00	90 - 110	
23 Na	1170.00	ug/l	1.47	1250.00	90 - 110	
24 Mg	2385.00	ug/l	1.08	2500.00	90 - 110	
27 Al	1014.00	ug/l	1.65	1000.00	90 - 110	
39 K	990.20	ug/l	1.38	1000.00	90 - 110	
44 Ca	2498.00	ug/l	1.20	2500.00	90 - 110	
47 Ti	50.85	ug/l	3.89	50.00	90 - 110	
51 V	49.31	ug/l	1.48	50.00	90 - 110	
52 Cr	49.29	ug/l	1.05	50.00	90 - 110	
55 Mn	49.77	ug/l	1.60	50.00	90 - 110	
56 Fe	1008.00	ug/l	1.55	1000.00	90 - 110	
59 Co	49.69	ug/l	1.28	50.00	90 - 110	
60 Ni	49.79	ug/l	1.68	50.00	90 - 110	
63 Cu	49.57	ug/l	1.15	50.00	90 - 110	
65 Cu	49.21	ug/l	1.83	50.00	90 - 110	
66 Zn	49.91	ug/l	0.33	50.00	90 - 110	
75 As	49.48	ug/l	1.05	50.00	90 - 110	
78 Se	49.64	ug/l	0.85	50.00	90 - 110	
78 Se	50.06	ug/l	1.16	50.00	90 - 110	
88 Sr	49.44	ug/l	0.36	50.00	90 - 110	
88 Sr	50.07	ug/l	1.44	50.00	90 - 110	
95 Mo	49.14	ug/l	1.38	50.00	90 - 110	
106 (Cd)	--------	ug/l	--------	50.00	90 - 110	
107 Ag	25.17	ug/l	0.53	25.00	90 - 110	
108 (Cd)	--------	ug/l	--------	50.00	90 - 110	
111 Cd	50.07	ug/l	1.52	50.00	90 - 110	
118 Sn	49.78	ug/l	1.04	---	##### - #####	
118 Sn	49.89	ug/l	0.18	---	##### - #####	
118 Sn	49.41	ug/l	0.16	50.00	90 - 110	
121 Sb	49.66	ug/l	1.28	50.00	90 - 110	
137 Ba	49.81	ug/l	0.46	50.00	90 - 110	
205 Tl	45.72	ug/l	0.20	50.00	90 - 110	
206 (Pb)	--------	ug/l	--------	50.00	90 - 110	
207 (Pb)	--------	ug/l	--------	50.00	90 - 110	
208 Pb	48.52	ug/l	0.37	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3940160.80	1.32	4212829.50	93.5	70 - 120	
45 Sc	3175619.00	1.05	3129997.00	101.5	70 - 120	
45 Sc	376031.47	1.15	374863.19	100.3	70 - 120	
45 Sc	6298627.50	1.18	6356509.50	99.1	70 - 120	
72 Ge	756466.38	0.68	759125.06	99.6	70 - 120	
72 Ge	243824.63	0.86	242212.13	100.7	70 - 120	
72 Ge	1332996.60	0.80	1323101.00	100.7	70 - 120	
115 In	6280393.00	1.22	6165936.00	101.9	70 - 120	
115 In	2516349.30	0.97	2507645.00	100.3	70 - 120	
115 In	8519040.00	0.33	8531235.00	99.9	70 - 120	
159 Tb	11857382.00	0.42	11555126.00	102.6	70 - 120	
165 Ho	11431102.00	0.76	11054040.00	103.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\014_CCB.D\014_CCB.D#
Date Acquired: Feb 6 2012 10:50 am
Operator: NBS
Sample Name: CCB 120206
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	########	
9 Be	0.01 ug/l	19.90	0.12	
11 B	-4.73 ug/l	9.37	15.00	
23 Na	-10.98 ug/l	14.59	77.10	
24 Mg	0.52 ug/l	23.94	7.50	
27 Al	-0.28 ug/l	87.72	3.96	
39 K	-13.62 ug/l	30.55	19.20	
44 Ca	-9.83 ug/l	32.73	90.00	
47 Ti	0.04 ug/l	109.38	0.78	
51 V	0.01 ug/l	183.87	0.21	
52 Cr	0.01 ug/l	158.90	0.12	
55 Mn	-0.01 ug/l	300.59	0.18	
56 Fe	0.02 ug/l	119.26	40.80	
59 Co	0.01 ug/l	88.12	0.09	
60 Ni	0.01 ug/l	291.64	0.48	
63 Cu	-0.03 ug/l	49.06	0.39	
65 Cu	-0.03 ug/l	47.65	0.39	
66 Zn	0.06 ug/l	70.60	6.90	
75 As	0.03 ug/l	34.71	0.27	
78 Se	0.16 ug/l	4.44	0.30	
78 Se	0.24 ug/l	59.68	0.30	
88 Sr	0.02 ug/l	30.84	0.03	
88 Sr	0.01 ug/l	9.72	0.03	
95 Mo	0.22 ug/l	9.44	0.21	Fail
106 (Cd)	-------- ug/l	--------	########	
107 Ag	0.01 ug/l	13.56	0.09	
108 (Cd)	-------- ug/l	--------	########	
111 Cd	0.02 ug/l	50.70	0.06	
118 Sn	0.04 ug/l	34.43	########	
118 Sn	0.05 ug/l	10.13	########	
118 Sn	0.04 ug/l	40.87	0.30	
121 Sb	0.56 ug/l	0.75	0.03	Fail
137 Ba	0.02 ug/l	31.97	0.12	
205 Tl	0.03 ug/l	11.45	0.03	
206 (Pb)	-------- ug/l	--------	########	
207 (Pb)	-------- ug/l	--------	########	
208 Pb	-0.01 ug/l	51.87	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4383906.50	0.70	4212829.50	104.1	70 - 120	
45 Sc	3267002.30	1.48	3129997.00	104.4	70 - 120	
45 Sc	391235.94	0.94	374863.19	104.4	70 - 120	
45 Sc	6536566.00	0.80	6356509.50	102.8	70 - 120	
72 Ge	799470.19	0.92	759125.06	105.3	70 - 120	
72 Ge	251924.02	3.11	242212.13	104.0	70 - 120	
72 Ge	1380307.30	1.39	1323101.00	104.3	70 - 120	
115 In	6401978.00	1.00	6165936.00	103.8	70 - 120	
115 In	2611173.30	0.62	2507645.00	104.1	70 - 120	
115 In	8774543.00	0.29	8531235.00	102.9	70 - 120	
159 Tb	12065772.00	0.63	11555126.00	104.4	70 - 120	
165 Ho	11722894.00	0.70	11054040.00	106.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\015SMPL.D\015SMPL.D#
Date Acquired: Feb 6 2012 10:56 am
Operator: NBS
Sample Name: LDR ~~250~~ 500ppb 120206 sgn 2.7.12
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	#VALUE!	--------	0	
9 Be	546.40 ug/l	546.40	0.33	1000	
11 B	589.50 ug/l	589.50	1.86	1000	
23 Na	12560.00 ug/l	12560.00	1.58	25000	
24 Mg	24940.00 ug/l	24940.00	1.19	50000	
27 Al	10150.00 ug/l	10150.00	0.89	20000	
39 K	10640.00 ug/l	10640.00	0.30	20000	
44 Ca	24830.00 ug/l	24830.00	1.48	50000	
47 Ti	502.40 ug/l	502.40	1.51	1000	
51 V	541.50 ug/l	541.50	1.86	1000	
52 Cr	535.50 ug/l	535.50	2.45	1000	
55 Mn	517.30 ug/l	517.30	1.49	1000	
56 Fe	9941.00 ug/l	9941.00	2.02	20000	
59 Co	532.20 ug/l	532.20	1.21	1000	
60 Ni	502.60 ug/l	502.60	1.30	1000	
63 Cu	525.60 ug/l	525.60	0.99	1000	
65 Cu	503.90 ug/l	503.90	1.11	1000	
66 Zn	486.20 ug/l	486.20	0.43	1000	
75 As	508.90 ug/l	508.90	0.59	1000	
78 Se	500.20 ug/l	500.20	1.78	1000	
78 Se	502.10 ug/l	502.10	0.21	1000	
88 Sr	551.50 ug/l	551.50	0.34	1000	
88 Sr	499.70 ug/l	499.70	0.57	1000	
95 Mo	523.00 ug/l	523.00	1.02	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	########	
107 Ag	257.40 ug/l	257.40	0.95	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	########	
111 Cd	534.50 ug/l	534.50	3.56	1000	
118 Sn	514.00 ug/l	514.00	0.89	########	
118 Sn	498.40 ug/l	498.40	0.90	########	
118 Sn	520.70 ug/l	520.70	1.04	1000	
121 Sb	483.20 ug/l	483.20	0.39	1000	
137 Ba	565.20 ug/l	565.20	0.96	1000	
205 Tl	502.90 ug/l	502.90	0.96	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	########	
207 (Pb)	-------- ug/l	#VALUE!	--------	########	
208 Pb	522.90 ug/l	522.90	0.64	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3629250.30	1.53	4212829.50	86.1	70 - 120	
45 Sc	3090591.80	0.60	3129997.00	98.7	70 - 120	
45 Sc	362841.63	1.04	374863.19	96.8	70 - 120	
45 Sc	6067516.00	1.16	6356509.50	95.5	70 - 120	
72 Ge	771530.06	1.00	759125.06	101.6	70 - 120	
72 Ge	242233.47	0.51	242212.13	100.0	70 - 120	
72 Ge	1300967.60	1.08	1323101.00	98.3	70 - 120	
115 In	6070198.00	1.13	6165936.00	98.4	70 - 120	
115 In	2430254.80	0.35	2507645.00	96.9	70 - 120	
115 In	8388957.00	0.35	8531235.00	98.3	70 - 120	
159 Tb	11939886.00	0.74	11555126.00	103.3	70 - 120	
165 Ho	11579190.00	0.42	11054040.00	104.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\017SMPL.D\017SMPL.D#
Date Acquired: Feb 6 2012 11:09 am
Operator: NBS
Sample Name: ICSA 120206
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	0.22	ug/l	0.22	8.46	1000	
11 B	12.23	ug/l	12.23	1.70	1000	
23 Na	92680.00	ug/l	92680.00	1.02	25000	>Cal
24 Mg	93550.00	ug/l	93550.00	0.87	50000	>Cal
27 Al	105200.00	ug/l	105200.00	0.51	20000	>Cal
39 K	99250.00	ug/l	99250.00	1.47	20000	>Cal
44 Ca	105700.00	ug/l	105700.00	0.74	50000	>Cal
47 Ti	2008.00	ug/l	2008.00	0.48	1000	>Cal
51 V	0.91	ug/l	0.91	2.25	1000	
52 Cr	1.72	ug/l	1.72	1.08	1000	
55 Mn	6.06	ug/l	6.06	0.45	1000	
56 Fe	93770.00	ug/l	93770.00	1.41	20000	>Cal
59 Co	1.69	ug/l	1.69	2.32	1000	
60 Ni	2.16	ug/l	2.16	3.55	1000	
63 Cu	1.41	ug/l	1.41	2.18	1000	
65 Cu	1.48	ug/l	1.48	3.85	1000	
66 Zn	3.00	ug/l	3.00	1.90	1000	
75 As	0.89	ug/l	0.89	1.75	1000	
78 Se	0.59	ug/l	0.59	13.80	1000	
78 Se	0.94	ug/l	0.94	23.53	1000	
88 Sr	1.43	ug/l	1.43	2.32	1000	
88 Sr	1.30	ug/l	1.30	1.00	1000	
95 Mo	2024.00	ug/l	2024.00	0.76	1000	>Cal
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	0.24	ug/l	0.24	5.31	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	1.01	ug/l	1.01	11.34	1000	
118 Sn	3.30	ug/l	3.30	0.88	#######	
118 Sn	3.45	ug/l	3.45	2.90	#######	
118 Sn	3.26	ug/l	3.26	1.54	1000	
121 Sb	5.44	ug/l	5.44	0.46	1000	
137 Ba	3.00	ug/l	3.00	3.64	1000	
205 Tl	0.53	ug/l	0.53	1.75	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	0.89	ug/l	0.89	2.06	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3360571.30	0.20	4212829.50	79.8	70 - 120	
45 Sc	3054904.30	1.34	3129997.00	97.6	70 - 120	
45 Sc	362518.63	0.75	374863.19	96.7	70 - 120	
45 Sc	5914792.00	0.45	6356509.50	93.1	70 - 120	
72 Ge	756293.31	1.05	759125.06	99.6	70 - 120	
72 Ge	250933.52	0.30	242212.13	103.6	70 - 120	
72 Ge	1374370.30	0.66	1323101.00	103.9	70 - 120	
115 In	5733139.00	0.78	6165936.00	93.0	70 - 120	
115 In	2333391.30	0.82	2507645.00	93.1	70 - 120	
115 In	8107878.50	0.70	8531235.00	95.0	70 - 120	
159 Tb	11816537.00	0.27	11555126.00	102.3	70 - 120	
165 Ho	11436541.00	0.69	11054040.00	103.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.B\004CALB.D\004CALB.D#

8 :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-AB QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\018ICSB.D\018ICSB.D#
Date Acquired: Feb 6 2012 11:16 am
Acq. Method: 62A0206A.M
Operator: NBS
Sample Name: ICSAB 120206
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal. Update: Feb 06 2012 10:13 am
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	268.70	0.72	250	107.5	80 - 120	
11 B	45	3	4.66	11.18	---		-	
23 Na	45	2	92860.00	1.19	---		-	
24 Mg	45	2	93750.00	1.04	---		-	
27 Al	45	2	105600.00	0.86	---		-	
39 K	45	2	100200.00	0.94	---		-	
44 Ca	45	2	105400.00	0.41	---		-	
47 Ti	45	2	2013.00	0.78	2000	100.7	80 - 120	
51 V	45	2	261.40	1.26	250	104.6	80 - 120	
52 Cr	45	2	263.40	1.08	250	105.4	80 - 120	
55 Mn	45	2	271.90	0.87	250	108.8	80 - 120	
56 Fe	45	2	94920.00	1.21	---		-	
59 Co	45	2	249.70	1.36	250	99.9	80 - 120	
60 Ni	45	2	494.40	0.99	500	98.9	80 - 120	
63 Cu	45	2	243.30	0.95	250	97.3	80 - 120	
65 Cu	45	2	242.30	1.18	250	96.9	80 - 120	
66 Zn	115	2	569.20	0.33	500	113.8	80 - 120	
75 As	115	2	245.40	0.52	250	98.2	80 - 120	
78 Se	115	1	257.50	1.31	250	103.0	80 - 120	
78 Se	115	2	256.40	1.06	250	102.6	80 - 120	
88 Sr	115	2	1.57	3.02	---		-	
88 Sr	115	3	1.40	1.63	---		-	
95 Mo	115	3	2240.00	1.19	2000	112.0	80 - 120	
106 (Cd)	---	3	---	---	---		-	
107 Ag	115	3	546.20	1.05	500	109.2	80 - 120	
108 (Cd)	---	3	---	---	---		-	
111 Cd	115	3	521.00	3.66	500	104.2	80 - 120	
118 Sn	115	1	3.20	1.85	---		-	
118 Sn	115	2	3.24	0.81	---		-	
118 Sn	115	3	3.26	1.38	---		-	
121 Sb	115	3	280.60	1.18	250	112.2	80 - 120	
137 Ba	115	3	271.00	1.06	250	108.4	80 - 120	
205 Tl	159	3	255.50	0.53	250	102.2	80 - 120	
206 (Pb)	---	3	---	---	---		-	
207 (Pb)	---	3	---	---	---		-	
208 Pb	159	3	522.00	0.13	500	104.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	3306894	0.29	4212830	78.5	70 - 120	
45 Sc	1	3118519	1.05	3129997	99.6	70 - 120	
45 Sc	2	365996	1.01	374863	97.6	70 - 120	
45 Sc	3	6031966	0.39	6356510	94.9	70 - 120	
72 Ge	1	776875	0.30	759125	102.3	70 - 120	
72 Ge	2	253073	0.91	242212	104.5	70 - 120	
72 Ge	3	1401040	0.67	1323101	105.9	70 - 120	
115 In	1	5891798	1.01	6165936	95.6	70 - 120	
115 In	2	2382073	0.09	2507645	95.0	70 - 120	
115 In	3	8323203	0.89	8531235	97.6	70 - 120	
159 Tb	3	12157345	0.44	11555126	105.2	70 - 120	
165 Ho	3	11778960	0.16	11054040	106.6	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2_hmi.u
Tune File# 2 c:\icpchem\1\7500\he_hmi.u
Tune File# 3 c:\icpchem\1\7500\ng_hmi.u

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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\12B06j01.B\045_CCV.D\045_CCV.D#
Date Acquired: Feb 6 2012 02:18 pm
Operator: NBS
Sample Name: CCV 120206
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
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	50.88	ug/l	1.16	50.00	90 - 110	
11 B	123.60	ug/l	2.46	50.00	90 - 110	Fail
23 Na	1223.00	ug/l	0.91	1250.00	90 - 110	
24 Mg	2450.00	ug/l	0.44	2500.00	90 - 110	
27 Al	1058.00	ug/l	1.12	1000.00	90 - 110	
39 K	1006.00	ug/l	0.83	1000.00	90 - 110	
44 Ca	2529.00	ug/l	0.78	2500.00	90 - 110	
47 Ti	50.53	ug/l	1.01	50.00	90 - 110	
51 V	49.42	ug/l	1.01	50.00	90 - 110	
52 Cr	49.29	ug/l	0.78	50.00	90 - 110	
55 Mn	50.77	ug/l	0.58	50.00	90 - 110	
56 Fe	1020.00	ug/l	0.20	1000.00	90 - 110	
59 Co	49.76	ug/l	0.66	50.00	90 - 110	
60 Ni	49.89	ug/l	0.45	50.00	90 - 110	
63 Cu	49.66	ug/l	0.38	50.00	90 - 110	
65 Cu	49.02	ug/l	0.83	50.00	90 - 110	
66 Zn	48.53	ug/l	0.46	50.00	90 - 110	
75 As	48.83	ug/l	0.50	50.00	90 - 110	
78 Se	48.84	ug/l	1.25	50.00	90 - 110	
78 Se	48.81	ug/l	1.02	50.00	90 - 110	
88 Sr	49.67	ug/l	1.16	50.00	90 - 110	
88 Sr	49.56	ug/l	2.42	50.00	90 - 110	
95 Mo	48.30	ug/l	1.27	50.00	90 - 110	
106 (Cd)	--------	ug/l	--------	50.00	90 - 110	
107 Ag	24.53	ug/l	1.08	25.00	90 - 110	
108 (Cd)	--------	ug/l	--------	50.00	90 - 110	
111 Cd	49.37	ug/l	1.49	50.00	90 - 110	
118 Sn	49.20	ug/l	1.39	---	##### - #####	
118 Sn	49.17	ug/l	0.45	---	##### - #####	
118 Sn	48.96	ug/l	0.80	50.00	90 - 110	
121 Sb	49.44	ug/l	1.22	50.00	90 - 110	
137 Ba	49.39	ug/l	1.02	50.00	90 - 110	
205 Tl	47.69	ug/l	6.00	50.00	90 - 110	
206 (Pb)	--------	ug/l	--------	50.00	90 - 110	
207 (Pb)	--------	ug/l	--------	50.00	90 - 110	
208 Pb	48.69	ug/l	0.52	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4176142.30	1.06	4212829.50	99.1	70 - 120	
45 Sc	3451571.30	0.62	3129997.00	110.3	70 - 120	
45 Sc	411599.50	0.30	374863.19	109.8	70 - 120	
45 Sc	6791665.50	0.80	6356509.50	106.8	70 - 120	
72 Ge	840162.56	0.66	759125.06	110.7	70 - 120	
72 Ge	269206.88	1.14	242212.13	111.1	70 - 120	
72 Ge	1452180.40	1.11	1323101.00	109.8	70 - 120	
115 In	6943269.00	0.61	6165936.00	112.6	70 - 120	
115 In	2800833.30	1.04	2507645.00	111.7	70 - 120	
115 In	9609931.00	1.45	8531235.00	112.6	70 - 120	
159 Tb	13503632.00	0.28	11555126.00	116.9	70 - 120	
165 Ho	13023762.00	0.17	11054040.00	117.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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\12B06j01.B\046_CCB.D\046_CCB.D#
Date Acquired: Feb 6 2012 02:24 pm
Operator: NBS
Sample Name: CCB 120206
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	#######	
9 Be	0.02	ug/l	19.14	0.12	
11 B	47.44	ug/l	0.65	15.00	Fail
23 Na	29.91	ug/l	8.99	77.10	
24 Mg	0.44	ug/l	30.03	7.50	
27 Al	-0.03	ug/l	1236.20	3.96	
39 K	-18.50	ug/l	11.00	19.20	
44 Ca	-19.17	ug/l	7.73	90.00	
47 Ti	0.00	ug/l	401.92	0.78	
51 V	0.01	ug/l	64.17	0.21	
52 Cr	0.00	ug/l	153.20	0.12	
55 Mn	-0.02	ug/l	54.11	0.18	
56 Fe	0.02	ug/l	134.17	40.80	
59 Co	0.00	ug/l	55.33	0.09	
60 Ni	0.02	ug/l	22.16	0.48	
63 Cu	-0.05	ug/l	30.62	0.39	
65 Cu	-0.03	ug/l	18.65	0.39	
66 Zn	0.24	ug/l	8.63	6.90	
75 As	0.02	ug/l	11.77	0.27	
78 Se	0.14	ug/l	8.55	0.30	
78 Se	-0.06	ug/l	230.84	0.30	
88 Sr	0.02	ug/l	69.24	0.03	
88 Sr	0.02	ug/l	10.11	0.03	
95 Mo	0.20	ug/l	12.72	0.21	
106 (Cd)	--------	ug/l	--------	#######	
107 Ag	0.01	ug/l	36.39	0.09	
108 (Cd)	--------	ug/l	--------	#######	
111 Cd	0.02	ug/l	37.55	0.06	
118 Sn	0.06	ug/l	99.34	#######	
118 Sn	0.03	ug/l	23.96	#######	
118 Sn	0.04	ug/l	37.86	0.30	
121 Sb	0.44	ug/l	3.14	0.03	Fail
137 Ba	0.02	ug/l	26.83	0.12	
205 Tl	0.06	ug/l	14.61	0.03	Fail
206 (Pb)	--------	ug/l	--------	#######	
207 (Pb)	--------	ug/l	--------	#######	
208 Pb	-0.02	ug/l	12.55	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4632602.50	1.55	4212829.50	110.0	70 - 120	
45 Sc	3550893.50	0.37	3129997.00	113.4	70 - 120	
45 Sc	431216.97	0.78	374863.19	115.0	70 - 120	
45 Sc	7018318.50	0.98	6356509.50	110.4	70 - 120	
72 Ge	876173.69	0.62	759125.06	115.4	70 - 120	
72 Ge	279649.81	0.36	242212.13	115.5	70 - 120	
72 Ge	1481711.80	0.58	1323101.00	112.0	70 - 120	
115 In	7026067.00	0.74	6165936.00	113.9	70 - 120	
115 In	2949634.00	0.19	2507645.00	117.6	70 - 120	
115 In	9776462.00	0.70	8531235.00	114.6	70 - 120	
159 Tb	13484491.00	0.94	11555126.00	116.7	70 - 120	
165 Ho	13158306.00	0.29	11054040.00	119.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.B\004CALB.D\004CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\056_CCV.D\056_CCV.D#
Date Acquired: Feb 6 2012 03:32 pm
Operator: NBS
Sample Name: CCV 120206
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
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	52.73	ug/l	0.77	50.00	90 - 110	
11 B	54.11	ug/l	1.95	50.00	90 - 110	
23 Na	1220.00	ug/l	0.43	1250.00	90 - 110	
24 Mg	2434.00	ug/l	0.70	2500.00	90 - 110	
27 Al	1068.00	ug/l	0.97	1000.00	90 - 110	
39 K	1015.00	ug/l	0.82	1000.00	90 - 110	
44 Ca	2561.00	ug/l	1.57	2500.00	90 - 110	
47 Ti	50.17	ug/l	1.85	50.00	90 - 110	
51 V	49.12	ug/l	0.94	50.00	90 - 110	
52 Cr	48.63	ug/l	0.66	50.00	90 - 110	
55 Mn	50.00	ug/l	0.19	50.00	90 - 110	
56 Fe	1006.00	ug/l	0.46	1000.00	90 - 110	
59 Co	48.98	ug/l	0.28	50.00	90 - 110	
60 Ni	48.85	ug/l	0.95	50.00	90 - 110	
63 Cu	48.38	ug/l	0.52	50.00	90 - 110	
65 Cu	48.17	ug/l	1.37	50.00	90 - 110	
66 Zn	49.02	ug/l	1.15	50.00	90 - 110	
75 As	48.02	ug/l	0.60	50.00	90 - 110	
78 Se	48.98	ug/l	0.38	50.00	90 - 110	
78 Se	49.87	ug/l	1.13	50.00	90 - 110	
88 Sr	49.54	ug/l	0.07	50.00	90 - 110	
88 Sr	48.84	ug/l	2.35	50.00	90 - 110	
95 Mo	48.03	ug/l	1.78	50.00	90 - 110	
106 (Cd)	--------	ug/l	--------	50.00	90 - 110	
107 Ag	24.51	ug/l	1.20	25.00	90 - 110	
108 (Cd)	--------	ug/l	--------	50.00	90 - 110	
111 Cd	49.39	ug/l	0.23	50.00	90 - 110	
118 Sn	49.45	ug/l	0.73	---	##### - #####	
118 Sn	49.12	ug/l	0.32	---	##### - #####	
118 Sn	48.51	ug/l	0.93	50.00	90 - 110	
121 Sb	49.06	ug/l	1.01	50.00	90 - 110	
137 Ba	49.18	ug/l	0.56	50.00	90 - 110	
205 Tl	46.11	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	48.80	ug/l	0.43	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4454307.00	0.56	4212829.50	105.7	70 - 120	
45 Sc	3422176.80	0.83	3129997.00	109.3	70 - 120	
45 Sc	408987.97	0.44	374863.19	109.1	70 - 120	
45 Sc	6668787.00	0.45	6356509.50	104.9	70 - 120	
72 Ge	827777.75	1.06	759125.06	109.0	70 - 120	
72 Ge	265295.81	0.62	242212.13	109.5	70 - 120	
72 Ge	1418800.60	1.05	1323101.00	107.2	70 - 120	
115 In	6721459.50	0.70	6165936.00	109.0	70 - 120	
115 In	2760178.80	0.49	2507645.00	110.1	70 - 120	
115 In	9338107.00	1.03	8531235.00	109.5	70 - 120	
159 Tb	13060612.00	0.72	11555126.00	113.0	70 - 120	
165 Ho	12666277.00	0.82	11054040.00	114.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\058_CCB.D\058_CCB.D#
Date Acquired: Feb 6 2012 03:45 pm
Operator: NBS
Sample Name: CCB 120206
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	########	
9 Be	0.01 ug/l	33.33	0.12	
11 B	-8.32 ug/l	3.75	15.00	
23 Na	17.08 ug/l	10.42	77.10	
24 Mg	0.16 ug/l	53.57	7.50	
27 Al	0.29 ug/l	151.58	3.96	
39 K	-18.40 ug/l	11.09	19.20	
44 Ca	-26.21 ug/l	12.98	90.00	
47 Ti	0.01 ug/l	213.39	0.78	
51 V	0.00 ug/l	45.42	0.21	
52 Cr	-0.01 ug/l	31.50	0.12	
55 Mn	-0.02 ug/l	84.13	0.18	
56 Fe	-0.05 ug/l	38.94	40.80	
59 Co	0.00 ug/l	65.87	0.09	
60 Ni	0.00 ug/l	32.67	0.48	
63 Cu	-0.06 ug/l	5.34	0.39	
65 Cu	-0.07 ug/l	27.32	0.39	
66 Zn	0.15 ug/l	85.52	6.90	
75 As	0.01 ug/l	41.65	0.27	
78 Se	0.04 ug/l	47.20	0.30	
78 Se	-0.22 ug/l	121.42	0.30	
88 Sr	0.02 ug/l	47.27	0.03	
88 Sr	0.00 ug/l	48.59	0.03	
95 Mo	0.07 ug/l	14.61	0.21	
106 (Cd)	-------- ug/l	--------	#######	
107 Ag	0.01 ug/l	28.70	0.09	
108 (Cd)	-------- ug/l	--------	#######	
111 Cd	0.01 ug/l	49.52	0.06	
118 Sn	0.02 ug/l	83.64	#######	
118 Sn	0.03 ug/l	63.92	#######	
118 Sn	0.02 ug/l	29.51	0.30	
121 Sb	0.18 ug/l	7.50	0.03	Fail
137 Ba	0.01 ug/l	20.90	0.12	
205 Tl	0.01 ug/l	19.90	0.03	
206 (Pb)	-------- ug/l	--------	#######	
207 (Pb)	-------- ug/l	--------	#######	
208 Pb	-0.01 ug/l	3.01	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4991662.50	0.75	4212829.50	118.5	70 - 120	
45 Sc	3493158.30	1.03	3129997.00	111.6	70 - 120	
45 Sc	432989.56	0.47	374863.19	115.5	70 - 120	
45 Sc	7018177.50	0.61	6356509.50	110.4	70 - 120	
72 Ge	852324.56	0.14	759125.06	112.3	70 - 120	
72 Ge	274414.13	0.74	242212.13	113.3	70 - 120	
72 Ge	1479214.10	0.30	1323101.00	111.8	70 - 120	
115 In	6833371.00	0.87	6165936.00	110.8	70 - 120	
115 In	2869796.80	0.46	2507645.00	114.4	70 - 120	
115 In	9724766.00	0.32	8531235.00	114.0	70 - 120	
159 Tb	13382199.00	0.77	11555126.00	115.8	70 - 120	
165 Ho	13004256.00	1.10	11054040.00	117.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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

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	0.22 U	0.5	0.22	0.11	ug/L	02/06/12	02/06/12	#602D-120206A-AY54075

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\047SMPL.D\047SMPL.D#
Date Acquired: Feb 6 2012 02:31 pm
Operator: NBS
Sample Name: 120206A-3015-BLK
Misc Info: 120206A-3015
Vial Number: 3206
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
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	0.00 ug/l	0.00	173.21	1000	
11 B	55.58 ug/l	61.75	2.62	1000	
23 Na	30.25 ug/l	33.61	5.36	25000	
24 Mg	0.37 ug/l	0.41	18.55	50000	
27 Al	0.74 ug/l	0.82	46.14	20000	
39 K	-15.15 ug/l	-16.83	12.14	20000	
44 Ca	-24.53 ug/l	-27.25	7.65	50000	
47 Ti	0.10 ug/l	0.11	68.41	1000	
51 V	0.13 ug/l	0.14	5.70	1000	
52 Cr	0.20 ug/l	0.22	3.51	1000	
55 Mn	-0.03 ug/l	-0.03	56.87	1000	
56 Fe	0.91 ug/l	1.01	15.27	20000	
59 Co	0.02 ug/l	0.02	16.88	1000	
60 Ni	0.02 ug/l	0.03	32.74	1000	
63 Cu	-0.02 ug/l	-0.02	34.50	1000	
65 Cu	-0.01 ug/l	-0.02	48.71	1000	
66 Zn	-0.27 ug/l	-0.30	20.63	1000	
75 As	0.07 ug/l	0.08	27.14	1000	
78 Se	0.03 ug/l	0.04	4.97	1000	
78 Se	0.02 ug/l	0.02	150.57	1000	
88 Sr	0.02 ug/l	0.02	57.01	1000	
88 Sr	0.00 ug/l	0.00	206.24	1000	
95 Mo	0.10 ug/l	0.11	22.87	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	0.01 ug/l	0.01	5.47	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.00 ug/l	0.00	1188.40	1000	
118 Sn	0.39 ug/l	0.43	2.08	#######	
118 Sn	0.42 ug/l	0.46	3.57	#######	
118 Sn	0.39 ug/l	0.43	6.46	1000	
121 Sb	0.76 ug/l	0.85	4.54	1000	
137 Ba	0.08 ug/l	0.09	27.49	1000	
205 Tl	0.03 ug/l	0.04	5.79	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	-0.02 ug/l	-0.02	8.79	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4129411.80	0.43	4212829.50	98.0	70 - 120	
45 Sc	3340229.00	0.31	3129997.00	106.7	70 - 120	
45 Sc	399532.06	0.59	374863.19	106.6	70 - 120	
45 Sc	6509866.50	0.55	6356509.50	102.4	70 - 120	
72 Ge	802176.31	1.80	759125.06	105.7	70 - 120	
72 Ge	257508.03	0.63	242212.13	106.3	70 - 120	
72 Ge	1373585.90	1.54	1323101.00	103.8	70 - 120	
115 In	6543729.00	0.24	6165936.00	106.1	70 - 120	
115 In	2688535.00	0.76	2507645.00	107.2	70 - 120	
115 In	9120096.00	0.39	8531235.00	106.9	70 - 120	
159 Tb	12814966.00	0.72	11555126.00	110.9	70 - 120	
165 Ho	12513410.00	1.49	11054040.00	113.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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	50.9	102	80-120	02/06/12	02/06/12	#602D-120206A-AY54075

Comments: _____

Printed: 02/07/12 11:56:25 AM
APPL Standard LCS

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\048SMPL.D\048SMPL.D#
Date Acquired: Feb 6 2012 02:38 pm
Operator: NBS
Sample Name: 120206A-3015-LCS
Misc Info: 120206A-3015
Vial Number: 3207
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
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	9.45	ug/l	10.50	1.92	1000	
11 B	93.38	ug/l	103.75	1.44	1000	
23 Na	4630.00	ug/l	5143.93	0.47	25000	
24 Mg	4867.00	ug/l	5407.24	0.37	50000	
27 Al	401.10	ug/l	445.62	1.98	20000	
39 K	938.10	ug/l	1042.23	0.88	20000	
44 Ca	4870.00	ug/l	5410.57	1.11	50000	
47 Ti	46.81	ug/l	52.01	1.78	1000	
51 V	46.54	ug/l	51.71	0.38	1000	
52 Cr	48.33	ug/l	53.69	0.63	1000	
55 Mn	48.86	ug/l	54.28	0.24	1000	
56 Fe	185.30	ug/l	205.87	0.53	20000	
59 Co	45.87	ug/l	50.96	0.89	1000	
60 Ni	47.06	ug/l	52.28	0.46	1000	
63 Cu	44.03	ug/l	48.92	0.82	1000	
65 Cu	44.36	ug/l	49.28	1.33	1000	
66 Zn	85.94	ug/l	95.48	0.27	1000	
75 As	41.92	ug/l	46.57	0.81	1000	
78 Se	40.03	ug/l	44.47	1.38	1000	
78 Se	39.10	ug/l	43.44	1.58	1000	
88 Sr	46.75	ug/l	51.94	0.70	1000	
88 Sr	46.89	ug/l	52.09	1.87	1000	
95 Mo	44.36	ug/l	49.28	1.53	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	16.62	ug/l	18.46	0.13	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	8.74	ug/l	9.70	0.88	1000	
118 Sn	48.86	ug/l	54.28	1.48	#######	
118 Sn	48.13	ug/l	53.47	0.39	#######	
118 Sn	48.50	ug/l	53.88	1.54	1000	
121 Sb	43.71	ug/l	48.56	1.26	1000	
137 Ba	45.45	ug/l	50.49	1.59	1000	
205 Tl	42.95	ug/l	47.72	0.87	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	45.89	ug/l	50.98	0.74	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4418753.00	0.96	4212829.50	104.9	70 - 120	
45 Sc	3323451.30	0.19	3129997.00	106.2	70 - 120	
45 Sc	402794.91	0.72	374863.19	107.5	70 - 120	
45 Sc	6548034.00	1.19	6356509.50	103.0	70 - 120	
72 Ge	787850.81	1.38	759125.06	103.8	70 - 120	
72 Ge	254086.30	1.93	242212.13	104.9	70 - 120	
72 Ge	1362964.00	1.50	1323101.00	103.0	70 - 120	
115 In	6454426.50	0.39	6165936.00	104.7	70 - 120	
115 In	2687161.00	0.35	2507645.00	107.2	70 - 120	
115 In	8994724.00	0.90	8531235.00	105.4	70 - 120	
159 Tb	12479164.00	0.92	11555126.00	108.0	70 - 120	
165 Ho	12208674.00	0.53	11054040.00	110.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Matrix Spike Recoveries

METALS

APPL ID: **120206W-54075 MS - 163672**

Sample ID: AY54075

Client ID: ES063

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	50.0	ND	51.2	49.8	102	99.6	2.8	20	80-120	02/06/12	02/06/12	02/06/12	02/06/12	163672	AY54075

360

Comments: _____

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\051SMPL.D\051SMPL.D#
Date Acquired: Feb 6 2012 02:58 pm
Operator: NBS
Sample Name: AY54075W08 MS
Misc Info: 120206A-3015
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
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	10.12	ug/l	11.24	0.31	1000	
11 B	196.60	ug/l	218.42	0.09	1000	
23 Na	43920.00	ug/l	48795.12	1.48	25000	>Cal
24 Mg	15860.00	ug/l	17620.46	2.13	50000	
27 Al	413.60	ug/l	459.51	0.49	20000	
39 K	2941.00	ug/l	3267.45	0.87	20000	
44 Ca	13750.00	ug/l	15276.25	1.35	50000	
47 Ti	48.22	ug/l	53.57	2.38	1000	
51 V	67.31	ug/l	74.78	1.28	1000	
52 Cr	50.87	ug/l	56.52	0.61	1000	
55 Mn	49.66	ug/l	55.17	2.05	1000	
56 Fe	192.90	ug/l	214.31	1.44	20000	
59 Co	46.54	ug/l	51.71	1.64	1000	
60 Ni	47.25	ug/l	52.49	1.91	1000	
63 Cu	45.25	ug/l	50.27	1.70	1000	
65 Cu	44.97	ug/l	49.96	0.48	1000	
66 Zn	86.08	ug/l	95.63	0.60	1000	
75 As	43.94	ug/l	48.82	0.21	1000	
78 Se	41.37	ug/l	45.96	1.45	1000	
78 Se	41.77	ug/l	46.41	1.65	1000	
88 Sr	120.30	ug/l	133.65	0.37	1000	
88 Sr	116.60	ug/l	129.54	0.88	1000	
95 Mo	45.37	ug/l	50.41	0.74	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	16.63	ug/l	18.48	1.15	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	8.87	ug/l	9.85	0.42	1000	
118 Sn	50.17	ug/l	55.74	0.88	########	
118 Sn	50.08	ug/l	55.64	0.57	########	
118 Sn	50.00	ug/l	55.55	0.72	1000	
121 Sb	46.10	ug/l	51.22	1.27	1000	
137 Ba	50.20	ug/l	55.77	1.36	1000	
205 Tl	43.48	ug/l	48.31	0.16	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	46.09	ug/l	51.21	0.76	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4631430.00	0.54	4212829.50	109.9	70 - 120	
45 Sc	3291434.80	1.00	3129997.00	105.2	70 - 120	
45 Sc	401242.94	1.24	374863.19	107.0	70 - 120	
45 Sc	6629293.50	0.59	6356509.50	104.3	70 - 120	
72 Ge	774635.31	1.20	759125.06	102.0	70 - 120	
72 Ge	250740.41	0.30	242212.13	103.5	70 - 120	
72 Ge	1359684.30	0.81	1323101.00	102.8	70 - 120	
115 In	6296127.00	0.46	6165936.00	102.1	70 - 120	
115 In	2619410.00	0.71	2507645.00	104.5	70 - 120	
115 In	8951888.00	0.71	8531235.00	104.9	70 - 120	
159 Tb	12417907.00	0.91	11555126.00	107.5	70 - 120	
165 Ho	11983486.00	0.50	11054040.00	108.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B06j01.B\052SMPL.D\052SMPL.D#
Date Acquired: Feb 6 2012 03:05 pm
Operator: NBS
Sample Name: AY5407SW08 MSD
Misc Info: 120206A-3015
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\62A0206A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0206A.C
Last Cal Update: Feb 06 2012 10:13 am
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	9.98	ug/l	11.08	1.13	1000	
11 B	194.60	ug/l	216.20	1.17	1000	
23 Na	43690.00	ug/l	48539.59	0.65	25000	>Cal
24 Mg	15770.00	ug/l	17520.47	0.86	50000	
27 Al	420.50	ug/l	467.18	2.63	20000	
39 K	2908.00	ug/l	3230.79	1.13	20000	
44 Ca	13930.00	ug/l	15476.23	0.48	50000	
47 Ti	48.15	ug/l	53.49	1.60	1000	
51 V	66.45	ug/l	73.83	0.88	1000	
52 Cr	49.64	ug/l	55.15	2.01	1000	
55 Mn	48.99	ug/l	54.43	0.86	1000	
56 Fe	195.00	ug/l	216.65	1.00	20000	
59 Co	45.22	ug/l	50.24	0.96	1000	
60 Ni	46.41	ug/l	51.56	0.80	1000	
63 Cu	43.81	ug/l	48.67	1.10	1000	
65 Cu	44.14	ug/l	49.04	0.96	1000	
66 Zn	93.35	ug/l	103.71	1.15	1000	
75 As	43.11	ug/l	47.90	1.46	1000	
78 Se	40.72	ug/l	45.24	1.25	1000	
78 Se	41.40	ug/l	46.00	2.56	1000	
88 Sr	119.00	ug/l	132.21	0.47	1000	
88 Sr	116.30	ug/l	129.21	0.93	1000	
95 Mo	45.12	ug/l	50.13	1.58	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	16.45	ug/l	18.28	1.00	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	8.77	ug/l	9.74	0.16	1000	
118 Sn	49.43	ug/l	54.92	0.73	#######	
118 Sn	48.94	ug/l	54.37	1.13	#######	
118 Sn	48.91	ug/l	54.34	0.86	1000	
121 Sb	45.51	ug/l	50.56	1.78	1000	
137 Ba	49.73	ug/l	55.25	0.77	1000	
205 Tl	42.22	ug/l	46.91	1.61	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	44.87	ug/l	49.85	1.32	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4715567.50	0.30	4212829.50	111.9	70 - 120	
45 Sc	3325169.30	1.67	3129997.00	106.2	70 - 120	
45 Sc	408771.63	0.59	374863.19	109.0	70 - 120	
45 Sc	6743553.50	0.42	6356509.50	106.1	70 - 120	
72 Ge	774165.06	1.76	759125.06	102.0	70 - 120	
72 Ge	253947.66	0.95	242212.13	104.8	70 - 120	
72 Ge	1378216.30	0.23	1323101.00	104.2	70 - 120	
115 In	6331071.50	0.81	6165936.00	102.7	70 - 120	
115 In	2648835.00	1.27	2507645.00	105.6	70 - 120	
115 In	9035637.00	1.15	8531235.00	105.9	70 - 120	
159 Tb	12678197.00	1.23	11555126.00	109.7	70 - 120	
165 Ho	12299230.00	0.32	11054040.00	111.3	70 - 120	

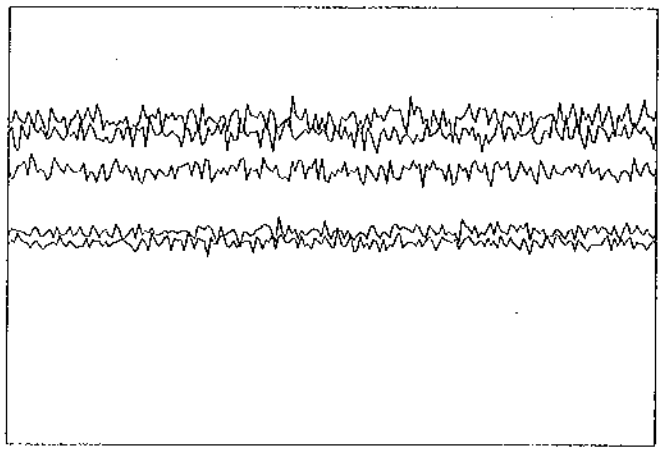
ISTD Ref File : C:\ICPCHEM\1\DATA\12B06j01.B\004CALB.D\004CALB.D#

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

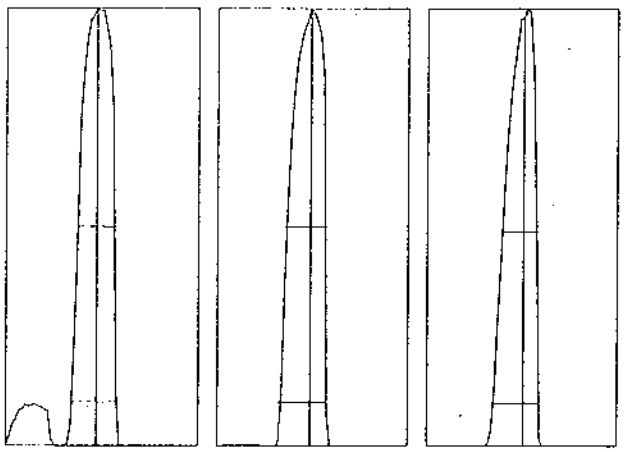
Tune Report

Tune File : NG_HMI.u
Comment : 120206



Integration Time:	0.1000 sec	
Sampling Period:	0.7200 sec	
n:	200	
Oxide:	156/140	1.330%
Doubly Charged:	70/140	0.927%

m/z	Range	Count	Mean	RSD%	Background
7	20,000	12539.0	12539.7	2.60	1.50
89	50,000	24465.0	24370.9	2.32	1.50
205	20,000	15437.0	14947.8	2.57	5.30
156/140	2	1.244%	1.345%	6.87	
70/140	2	0.803%	0.893%	7.93	
140	50,000	23153.0	23105.2	2.39	4.10
59	20,000	14887.0	14224.8	2.46	2.00



m/z:	7	89	205
Height:	12,601	24,810	15,264
Axis:	6.95	89.00	205.05
W-50%:	0.60	0.65	0.60
W-10%:	0.7500	0.7500	0.7500

Integration Time:	0.1000 sec
Acquisition Time:	22.7600 sec

Y axis : Linear

Generated : Feb 06, 2012 08:35:24
Printed : Feb 06, 2012 08:35:26

Tune Report

Tune File : NG_HMI.u
Comment : 120206

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1600 W	Extract 1	:	0 V	AMU Gain	:	126
RF Matching	:	1.84 V	Extract 2	:	-131 V	AMU Offset	:	127
Smpl Depth	:	8 mm	Omega Bias-ce	:	-18 V	Axis Gain	:	1.0001
Torch-H	:	-0.3 mm	Omega Lens-ce	:	0.2 V	Axis Offset	:	-0.05
Torch-V	:	0.1 mm	Cell Entrance	:	-30 V	QP Bias	:	-3 V
Carrier Gas	:	0.4 L/min	QP Focus	:	5 V			
Makeup Gas	:	0.6 L/min	Cell Exit	:	-30 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	8 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1690 V
Sample Pump	:	--- rps	OctP RF	:	180 V	Pulse HV	:	1160 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	:	--- %

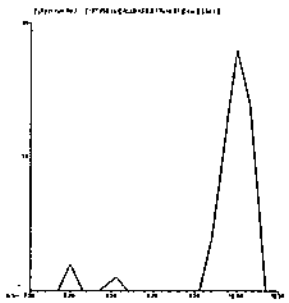
Generated : Feb 06, 2012 08:35:24
Printed : Feb 06, 2012 08:35:29

200.8 QC Tune Report

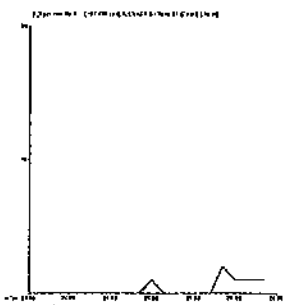
Data File: C:\ICPCHEM\1\DATA\12B06j01.B\001TUNE.D
Date Acquired: Feb 6 2012 09:23 am
Acq. Method: TN200_8.M
Operator: NBS
Sample Name: 100ppb Tune sol
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

RSD (%)

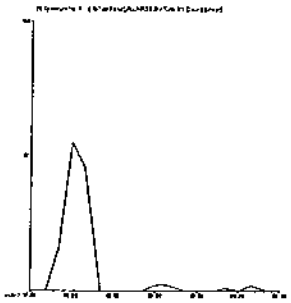
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	3037260	3042449	3012704	3044334	3054243	3032567	**0.83**	5.00	
24 Mg	8950791	8981277	8915769	9010490	8949750	8896667	**0.57**	5.00	
59 Co	10458889	10433591	10449189	10377188	10564249	10470229	**1.12**	5.00	
115 In	41928727	41783996	41811720	41959972	41972484	42115460	**0.66**	5.00	
208 Pb	7112156	7106661	7083293	7096063	7163953	7110809	**0.51**	5.00	



9 Be
Mass Calib.
Actual: 8.95
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:



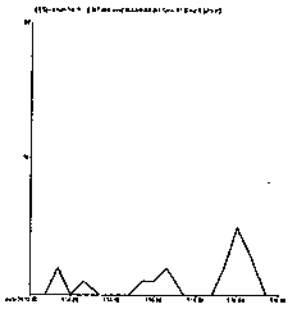
59 Co

Mass Calib.

Actual:	59.00		
Required:	58.90	-	59.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.90		
Flag:			



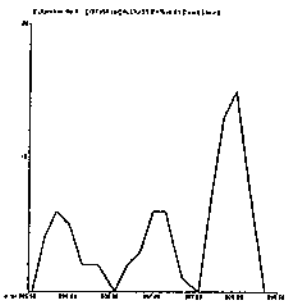
115 In

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:	208.05		
Required:	207.90	-	208.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.80		
Flag:			

Tune Result: Pass

054 Metals Standards Log Book # 34 Page # 054

SM 2-6-12
6010B-C (A)

1%HNO3 / 5%HCl BLK				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE
100 mL	HCL	BDH	611040	12/28/11
20 mL	HNO3	JT BAKER	K23022	12/27/11
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	09/14/12
Prepared in 50 ml 1%HNO3/5%HCl				
STD 3 / HDL 6010B/6010C				
1ML	CCV-A	ABSOLUTE	091409-25206	09/14/12
1ML	CCV-B	ABSOLUTE	091109-25208	09/14/12
1ML	CCV-C	ABSOLUTE	091009-25207	09/10/12
Prepared in 100 ml 1%HNO3 / 5%HCl				
STD 2 / CCV1 6010B/6010C/6020C				
AMOUNT	STD	PREP DATE	EXP DATE	
25mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	
CCV2 6010B/6010C				
AMOUNT	STD	PREP DATE	EXP DATE	
15mL	STD 3	Today	1 week	
25mL	1%HNO3/5%HCl	Today	1 week	

6010B/6010C ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1mL	Al	CPI	10E012-27685	04/20/12
1mL	Ca	CPI	11A006-28528	09/15/12
1mL	Mg	CPI	10H213-2786	04/20/12
1mL	Fe	O2SI	1022245-27699	04/22/12
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
1mL	Al	CPI	10E012-27685	04/20/12
1mL	Ca	CPI	11A006-28528	09/15/12
1mL	Mg	CPI	10H213-2786	04/20/12
1mL	Fe	O2SI	1022245-27699	04/22/12
0.5mL	JT SPECIAL M	O2SI	160495-01-01	03/01/12
Prepared in 50 ml 1%HNO3/5%HCl				
6010B/6010C ICV				
0.6ML	QCS ICV A	CPI	11C174-28548	09/17/12
0.6ML	QCS ICV B	CPI	11C174-28549	09/17/12
Prepared in 50ml 1%HNO3/5%HCl				

SM 2-6-12

SDM 02/06/12

SDM 02/06/12
6020/6020A
(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date: 02/06/12
Expires: 02/13/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL DI Water
Lot # K23022
20mL HCL / 2000mL DI Water
Lot #K43032
Expires: 02/13/12

Internal Standard Mix: Prep 02/06/2012

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 02/06/12

Standard 3 02/13/12

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 02/06/12

SDM 02/06/12

Standard 2 02/13/12

Amount	STD	
500 uL	Standard 4	02/06/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 02/06/12

Standard 1 02/13/12

Amount	STD	
50 uL	Standard 4	02/06/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 02/06/12

ICP-MS ICV 02/13/12

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 02/06/12

ICSA Prep: 02/13/12

1 mL	ICSA	CPI	11C068-28529

Prepared in 5 mL of 1% HNO3/1.0% HCL 02/06/12

ICSAB Prep: 02/13/12

1mL	ICSA	CPI	11C068-28529
0.025mL	INT	O2SI	1023605-28210

Prepared in 5 mL of 1% HNO3/1.0% HCL 02/06/12

ICP-LDR 02/13/12

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 02/06/12

SDM 02/06/12

SDM 02/06/12

Internal Standard Concentration

Amt	STD	Element	Vendor	Lot#	Final Conc. In Std	Expires
500uL	1000 ug/mL	Li	CPI	10L079-27839	5000 ug/L	06/10/12
500uL	1000 ug/mL	In	CPI	10J155-28574	5000 ug/L	09/25/12
500uL	1000 ug/mL	Ho	CPI	10A107-28576	5000 ug/L	09/25/12
500uL	1000 ug/mL	Tb	CPI	11B064-28575	5000 ug/L	09/25/12
500uL	1000 ug/mL	Sc	o2si	1024073-28527	5000 ug/L	05/18/12
500uL	1000 ug/mL	Ge	Environmental Express	1116011-29381	5000 ug/L	02/08/13

Prep:	02/06/12	SDM	Prep in -	1%HNO3/1.0%HCL:	Lot #KK23022/43032	in 100mL
Expires:	03/07/12					

Met

NBS 02/07/12
6020/6020A
(A)

Metals Digestion Worksheet

Method Name 3015 Digestion **Prep Method** M3015 **Set** 120206A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 1032278-30261
Spiked ID 2	LCSW LOT# 1032271-30259
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 02/06/12 9:00:00 AM
Witnessed By	KWS Date: 02/06/12 9:00:00 AM

Starting Temp:	20 c
Ending Temp:	170 c
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	Yes
End Date/Time	02/06/12 10:00

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	120206A Blk				45mL	50mL	02/06/12 9:00	equip: Venus
2	120206A LCS		90uL	1+2	45mL	50mL	02/06/12 9:00	equip: Venus
3	AY54074	AY54074W08			45mL	50mL	02/06/12 9:00	equip: Venus
4	AY54075	AY54075W08			45mL	50mL	02/06/12 9:00	equip: Venus
5	AY54075 MS	AY54075W08	90uL	1+2	45mL	50mL	02/06/12 9:00	equip: Venus
6	AY54075 MSD	AY54075W08	90uL	1+2	45mL	50mL	02/06/12 9:00	equip: Venus

Solvent and Lot#'s
HNO3 J.T.B K23022 0135

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	SK
Date	2-6-12
Time	10:00
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	lo
Bring up to volume	lo
Modified	02/06/12 8:37:34 AM

Reviewed By: SK **Date:** 2-6-12

6020/200.8 Injection Log

Directory: K:\ICP-MS Optimus\raw data output csv\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	06 Feb 2012	09:42	Calibration Blank		120206Arev	1.
2	06 Feb 2012	09:49	120206 Standard 1		120206Arev	1.
3	06 Feb 2012	09:56	120206 Standard 2		120206Arev	1.
4	06 Feb 2012	10:03	120206 Standard 3		120206Arev	1.
5	06 Feb 2012	10:09	120206 Standard 4		120206Arev	1.
6	06 Feb 2012	10:16	ICV 120206		120206Arev	1.
8	06 Feb 2012	10:36	ICB 120206		120206Arev	1.
9	06 Feb 2012	10:43	CCV 120206		120206Arev	1.
10	06 Feb 2012	10:50	CCB 120206		120206Arev	1.
11	06 Feb 2012	10:56	LDR 250ppb 120206		120206Arev	1.
12	06 Feb 2012	11:09	ICSA 120206		120206Arev	1.
13	06 Feb 2012	11:16	ICSAB 120206		120206Arev	1.
38	06 Feb 2012	14:18	CCV 120206		120206Arev	1.
39	06 Feb 2012	14:24	CCB 120206		120206Arev	1.
40	06 Feb 2012	14:31	120206A-3015-BLK		120206Arev	1.
41	06 Feb 2012	14:38	120206A-3015-LCS		120206Arev	1.
42	06 Feb 2012	14:45	AY54074W08		120206Arev	1.
43	06 Feb 2012	14:51	AY54075W08		120206Arev	1.
44	06 Feb 2012	14:58	AY54075W08 MS		120206Arev	1.
45	06 Feb 2012	15:05	AY54075W08 MSD		120206Arev	1.
46	06 Feb 2012	15:12	AY54075W08-A		120206Arev	1.
47	06 Feb 2012	15:18	AY54075W08-1/5		120206Arev	5.
49	06 Feb 2012	15:32	CCV 120206		120206Arev	1.
50	06 Feb 2012	15:45	CCB 120206		120206Arev	1.

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

March 14, 2012

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

Attn: Max Solmssen

Title: Report of Data: Case 66972

Project: Red Hill/1022-015

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

Dear Mr. Solmssen:

Samples were received February 15, 2012, in good condition. Written results for the requested analyses are provided on this March 14, 2012.

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.

If you have any questions or require further information, please contact your APPL Project Manager, Cynthia Clark, 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: 392

Data Validation Package
for
LTM Red Hill Bulk Fuel Storage Facility
SDG 66972

TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

SAMPLE RECEIPT INFORMATION

Sample receipt information

ARF: 66972

Project: Red Hill/1022-015

Sample Receipt Information:

The samples were received on February 15, 2012, at 2.5°C. The samples were assigned Analytical Request Form (ARF) number 66972. The sample numbers and requested analyses were compared to the chains of custody and email communications. No exception was encountered.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
ES069	AY54765	WATER	02/14/12	02/15/12
TRIP BLANK	AY54766	WATER	02/14/12	02/15/12

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

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

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

Measurement uncertainty can be reported upon request.

CASE NARRATIVE

EPA Method 8015B

Total Petroleum Hydrocarbons – Diesel

Sample Preparation:

The water sample was extracted according to EPA method 3510C. The sample was extracted within holding time.

Sample Analysis Information:

The sample was analyzed according to the method using an Agilent 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 problem was encountered

EPA Method 8270D SIM

Polynuclear Aromatic Hydrocarbons

Sample Preparation:

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

Sample Analysis Information:

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

Quality Control/Assurance

Calibrations:

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

Blanks:

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

Spikes:

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

No sample was designated for MS/MSD analysis.

Surrogates

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

Tuning:

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

Internal Standards

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

Summary:

No problem was encountered.

EPA Method 8260B
Volatile Organic Analysis

Sample Preparation:

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

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector. All holding times were met. The samples were received in unpreserved vials; they were analyzed within seven days of collection. Manual integration for gasoline was performed on every sample, LCS, method blank, second-source, and gasoline curve calibration point due to the computer integration not following the baseline. Chromatograms of before and after manual integration are enclosed. Manual integrations were performed in accordance with APPL's SOP and a summary of manual integrations performed on the gasoline is included in the QC Summary section of the report.

Quality Control/Assurance:

Calibrations:

Initial and continuing calibrations were performed according to the method. All system performance check compounds and calibration check compounds met DoD acceptance criteria. All calibration criteria were met.

Blanks:

No target analyte was detected above its detection limit in the method blanks except for Methylene chloride, which was detected at 0.74ug/L in the 120216AC method blank. There were similar low-level Methylene chloride detections in the samples, which are B-flagged.

Spikes:

Laboratory Control Spikes (LCS) were used for quality assurance. A second-source standard was used for the LCS. All LCS and second-source criteria were met.

No sample was 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 sample was digested according to EPA method 3015. Sample ES069 was filtered and preserved in the laboratory. All holding times were met.

Analysis Information:

Samples:

The sample was 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 Dilution Test were used for quality assurance. All LCS recoveries were within the acceptance limits.

Sample ES069 was selected by the laboratory as the QC sample for the analytical batch. The MS/MSD, PDS, and DT met all acceptance criteria.

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 66972

Client: **Environet, Inc.**
Address: **650 Iwilei Rd, #204**
Honolulu, HI 96817
Attn: **Max Solmssen**
Phone: **808-833-2225** Fax: **808-833-2231**
Job: **RED HILL/1022-015**
PO #: **1022-015**
Chain of Custody (Y/N): **Y** # **33005**
RAD Screen (Y/N): **Y** pH (Y/N): **N**
Turn Around Type: **2 WEEKS**

Received by: **TBV**
Date Received: **02/15/12** Time: **09:55**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **N** Time Zone:
Chest Temp(s): **2.5°C**
Color: **VOA,A-GRN,P-ORGRN**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Cynthia Clark**
QC Report Type: **DVP4/ADRDOD/HI**
Due Date: **02/29/12**

Comments:
14 day TAT for Form 1s & 30 day TAT for full package.
OSDas@, MSolmssen@ & 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 OSDas@ VDupra@ & MSolmssen@environetinc.com
metals 6020: report Lead with 0.5ug/L RL
TPH-Diesel only; VOCs: Include gasoline by 8260B

Sample Distribution:
GC: 1-$SIMHC12W, 1-$TPETD2
Extractions: 1-_SEP004S, 1-_SEP011
VOA: 2-$86RHBF, 2-$86RHBFR
Metals: 1-$602D(Pb)
Other: 1-_M3015

Charges:

Invoice To:
same

Client ID	APPL ID	Sampled	Analyses Requested
1. ES069	AY54765W	02/14/12 10:20	$602D(Pb), $86RHBF, $86RHBFR, $SIMHC12W, $TPETD2 -- un-preserved VOA vials
2. TRIP BLANK	AY54766W	02/14/12 00:01	$86RHBF, $86RHBFR -- un-preserved VOA vials

APPL Sample Receipt Form

ARF# **66972**

Sample	Container Type	Count	pH
AY54765	[2] PL 500mL	1	na
	[15] VOAs - NP	3	NA
	[17] Amber Liter	4	NA
AY54766	[15] VOAs - NP	3	NA

Sample	Container Type	Count	pH

66972
25

APPL LABS

CHAIN OF CUSTODY RECORD

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

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

C.O.C. 33005

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: Environet, Inc Phone: 808-833-2225	Company Name: Environet, inc Phone: 808-833-2225
Address: 650 Iwilei RD suite 204 Honolulu, HI 96817 Fax: 808-833-2231	Address: 650 Iwilei RD, suite 204 Honolulu, HI 96817 Fax: 808-833-2231
Attn: Vilma Dapra	Attn: Accounts payable

Project Name/Number: Red Hill
Sampler (Print): Max Solmssen
Purchase Order Number:
Sampler (Signature): Max Sol

Date Shipped: 2/14/12
Carrier: FEDEX
Waybill No.:
Comments: * lead sample was NOT field filtered. Please filter ASAP.

Sample Identification	Location	Date Collected	Time Collected	No. of Containers	Matrix: Aq	Matrix: Sed.	Matrix: Soil	VOCs	TPH-GRO	TPH-DRO	PAHs	lead *						
ES069	Red Hill	2/14/12	1020	8	X			X	X	X	X	X						
trip blank				3	X			X	X									

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:
MS	2/14/12	1230					
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					2/15/12	0955	[signature]

White: Return to client with report Yellow: Laboratory Copy Pink: Sampler

See reverse side for Container Preservative and Sampling Information

COOLER RECEIPT FORM

1) Project: LTM Red Hill Bulk Fuel Storage facility Date Received: 2/15/12

2) Coolers: Number of Coolers: 1

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

4) YES (NO) Were custody seals on outside of cooler? How many? _____ Date on seal? _____

5) Name on seal? _____

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) 8793 8456 8400 2) _____ 3) _____

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

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

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

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

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

14) Serial number of certified NIST thermometer used: 139267 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: AY547661003

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: Metal filter and preserved PA 2-15-12

Deficiencies: _____

Signature of personnel receiving samples: Yang Lu Second reviewer: _____

Signature of project manager notified: _____ Date and Time of notification: _____

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

Information given to client: _____

_____ by whom (Initials): _____

EPA 8015 Modified
Total Petroleum Hydrocarbons

EPA 8015 Modified
Total Petroleum Hydrocarbons
QC Summary

Method Blank
TPH Diesel Water

Blank Name/QCG: **120221W-54765 - 164136**
Batch ID: #TPETD-120221A

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	02/21/12	02/22/12
BLANK	SURROGATE: OCTACOSANE (S)	105	28-142			%	02/21/12	02/22/12
BLANK	SURROGATE: ORTHO-TERPHEN	79.4	57-132			%	02/21/12	02/22/12

Quant Method: TPH0210.M
Run #: 222006
Instrument: Apollo
Sequence: 120222
Initials: LA

Printed: 03/13/12 1:57:19 PM
GC SC-Blank-REG MDLs

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66972

Case No: 66972 Date Analyzed: 02/22/12

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120221A-BLK	Blank	28-142	105		57-132	79.4	
120221A-LCS	Lab Control Spike	28-142	82.0		57-132	110	
AY54765	ES069	28-142	77.9		57-132	76.1	

Comments: Batch: #TPETD-120221A

Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **120221W-54765 LCS - 164136**
Batch ID: #TPETD-120221A

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	1550	77.5	61-143
SURROGATE: OCTACOSANE (S)	150	123	82.0	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	165	110	57-132

Comments: _____

Primary	SPK
Quant Method :	TPH0210.M
Extraction Date :	02/21/12
Analysis Date :	02/22/12
Instrument :	Apollo
Run :	222007
Initials :	LA

Printed: 03/13/12 1:57:12 PM

APPL Standard LCS

EPA 8015B-e

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66972

Case No: 66972 Date Analyzed: 02/22/12

Matrix: WATER Instrument: Apollo

Blank ID: 120221A-BLK Time Analyzed: 1716

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120221A-BLK	Blank	222006	02/22/12 1716
120221A-LCS	Lab Control Spike	222007	02/22/12 1740
AY54765	ES069	222009	02/22/12 1828

Comments: Batch: #TPETD-120221A

EPA 8015 Modified
Total Petroleum Hydrocarbons
Sample Data

TPH Diesel Water

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

Attn: Max Solmssen
Project: RED HILL/1022-015
Sample ID: ES069
Sample Collection Date: 02/14/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66972
APPL ID: AY54765
QCG: #TPETD-120221A-164136

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	210 ++	150	80.8	40.4	ug/L	02/21/12	02/22/12
EPA 8015B-	SURROGATE: OCTACOSANE (S)	77.9	28-142			%	02/21/12	02/22/12
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	76.1	57-132			%	02/21/12	02/22/12

++(T2M) The analyst has noted that the chromatogram of this sample is mainly lower boiling hydrocarbons.

Quant Method: TPH0210.M
Run #: 222009
Instrument: Apollo
Sequence: 120222
Dilution Factor: 1
Initials: LA

Printed: 03/13/12 1:57:16 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120222\222009.D Vial: 9
Acq On : 2-22-12 18:28:16 Operator: LAC
Sample : AY54765W05 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Feb 23 10:58 2012 Quant Results File: TPH0210.RES

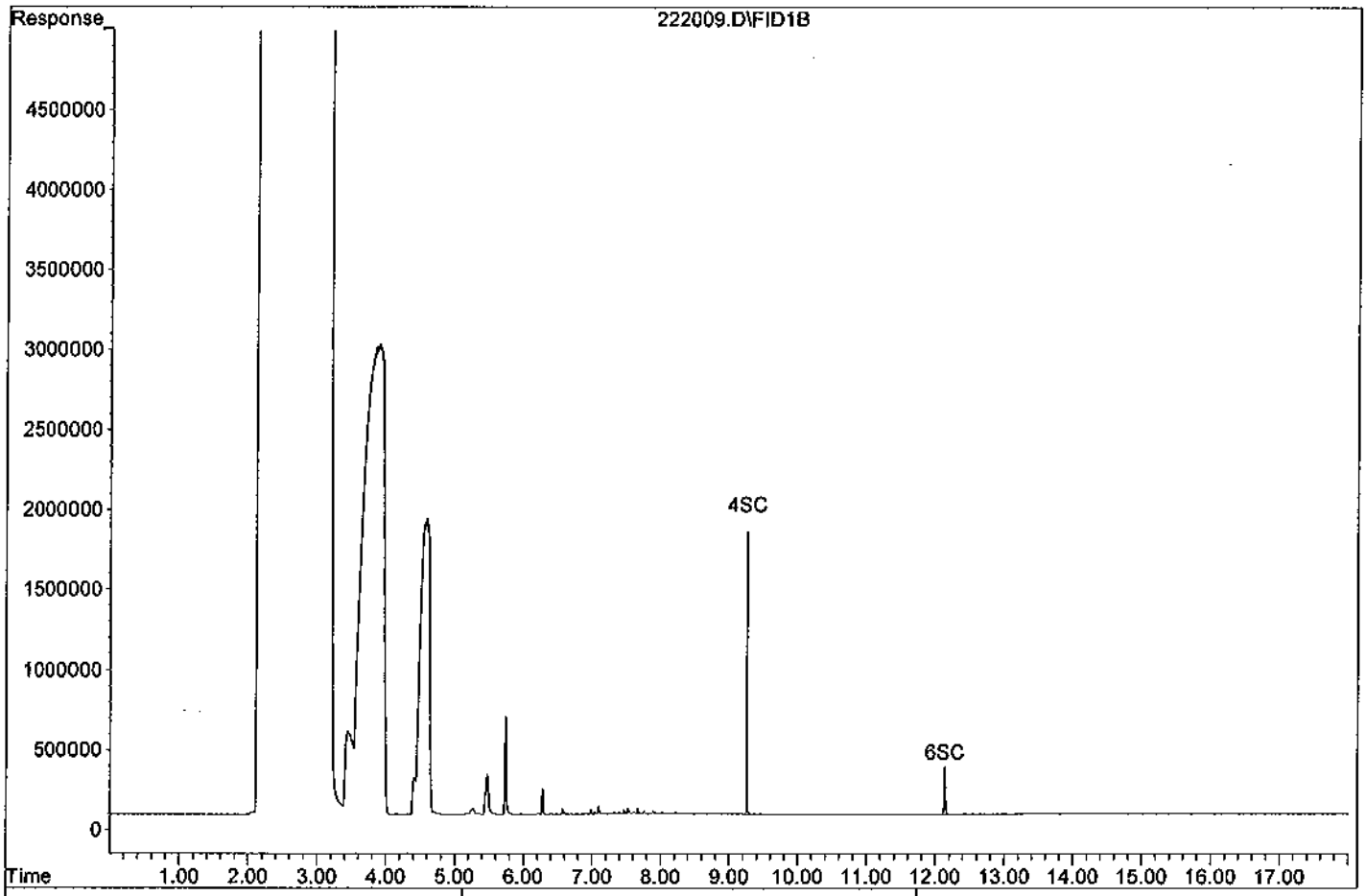
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

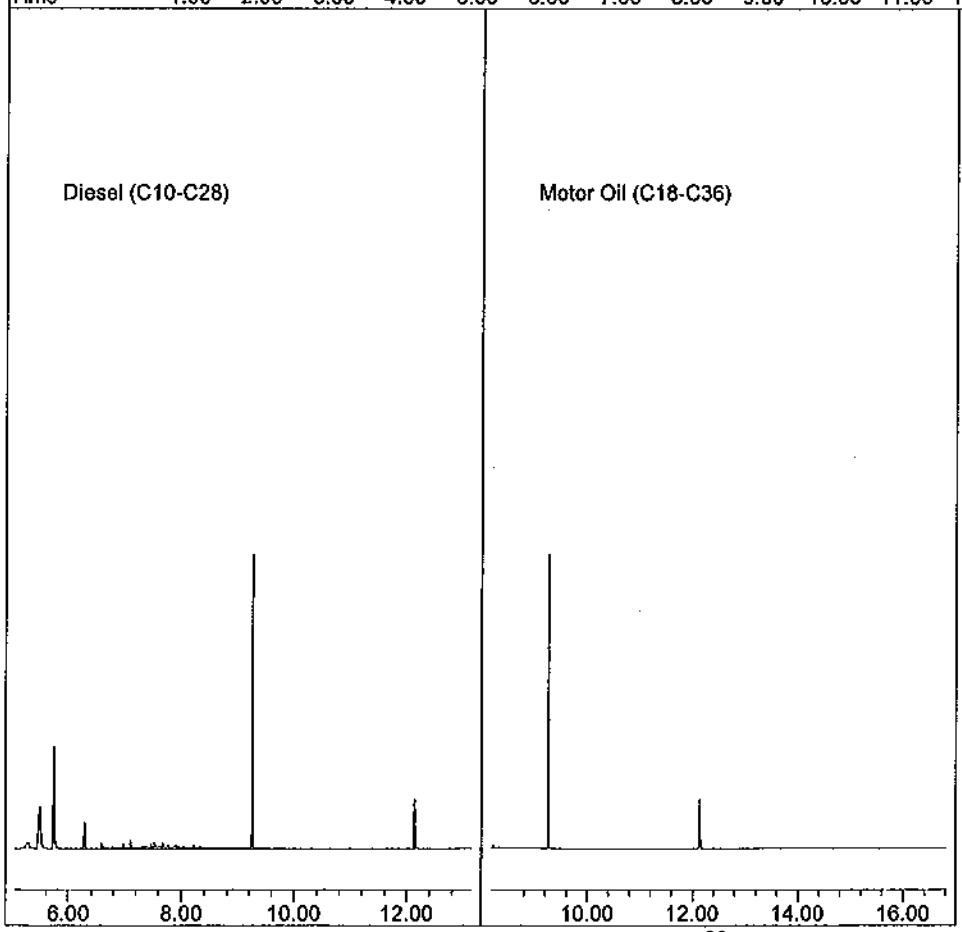
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.26	11536457	114.107 ppb
Surrogate Spike 150.000		Recovery =	76.07%
6) SC Octacosane(S)	12.14	3844707	116.915 ppb
Surrogate Spike 150.000		Recovery =	77.94%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	16743002	207.097 ppb

TPH
JK 3/13/12

Data File: G:\APOLLO\DATA\120222\222009.D
Sample : AY54765W05 5/1000





EPA 8015 Modified
Total Petroleum Hydrocarbons

Calibration Data

TPH Extractables
TPH0210

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66972
Case No: Initial Cal. Date: 02/10/12
Matrix: Instrument: Apollo

Initials: LAC

210004.D 210005.D 210006.D 210007.D 210008.D 210009.D
210011.D 210012.D 210013.D 210014.D 210015.D 210016.D
210018.D 210019.D 210020.D 210021.D 210022.D

		Compound	1	2	3	4	5	6					Avg	%RSD		
1	HATML	Diesel (C10-C28)	324780	189399	190755	190397	190034	191206					212762	26	HATML	1.000
2	HBTM	Motor Oil (C18-C36)	124825	73717	81097	85328	88995	95130					91515	20	HBTM	
3	SA	Not Used(S)	245462	292978	245280	247826	251734	317427					266784	12	SA	
4	SC	Ortho-Terphenyl(S)		249473	252733	253761	242341	265465					252755	3.3	SC	
5	SA	Not Used2(S)	69407	65182	68155	70028	68157	70173					68517	2.7	SA	
6	SC	Octacosane(S)		78636	81622	81722	80821	88256					82212	4.4	SC	
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1.9217152

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120210\210004.D Vial: 4
Acq On : 2-10-12 15:49:00 Operator: LAC
Sample : DIESEL 10/1000 2/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:38 2012 Quant Results File: TPH0210.RES

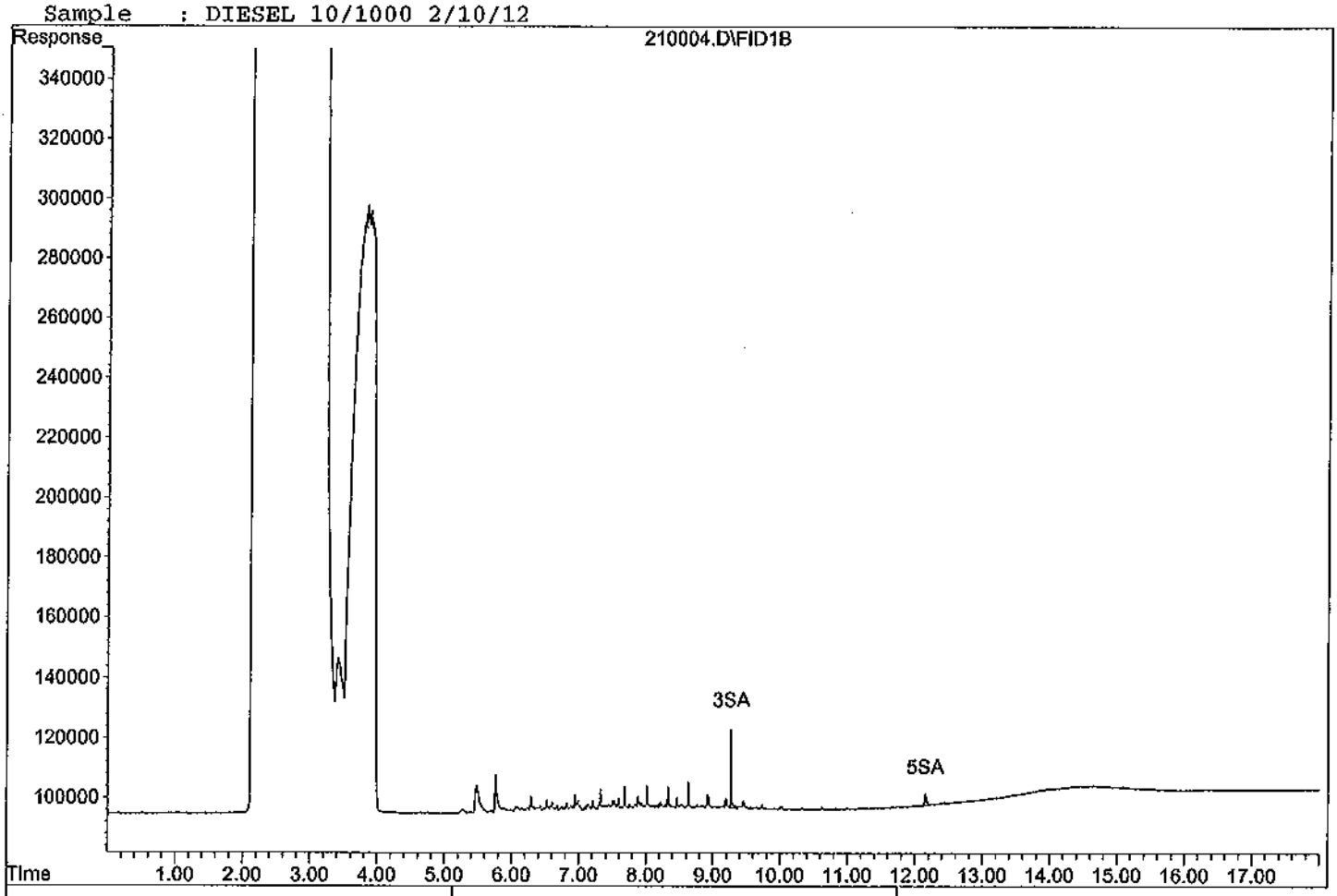
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

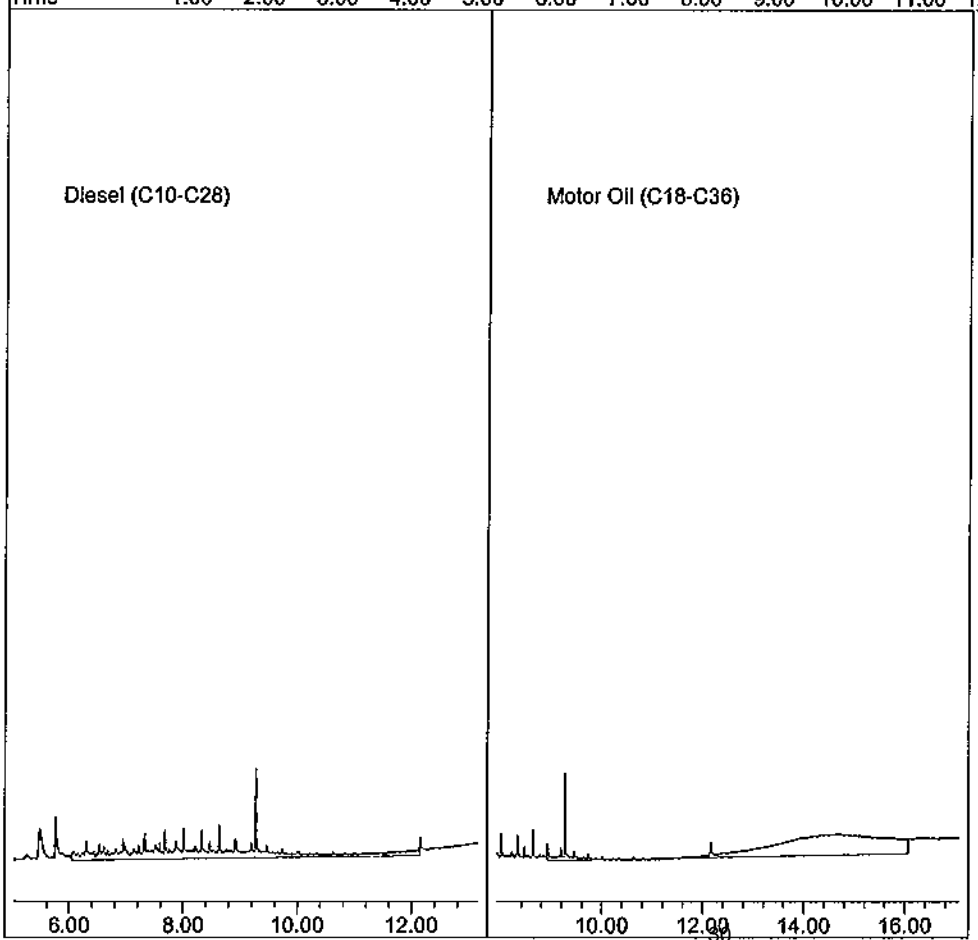
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.27	245462	0.500 ppb
Surrogate Spike 30.000	Recovery	=	1.67%
5) SA Not Used2(S)	12.16	69407	0.500 ppb
Surrogate Spike 30.000	Recovery	=	1.67%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	6495596	10.000 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\120210\210004.D
Sample : DIESEL 10/1000 2/10/12





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120210\210005.D Vial: 5
Acq On : 2-10-12 16:13:08 Operator: LAC
Sample : DIESEL 100/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:38 2012 Quant Results File: TPH0210.RES

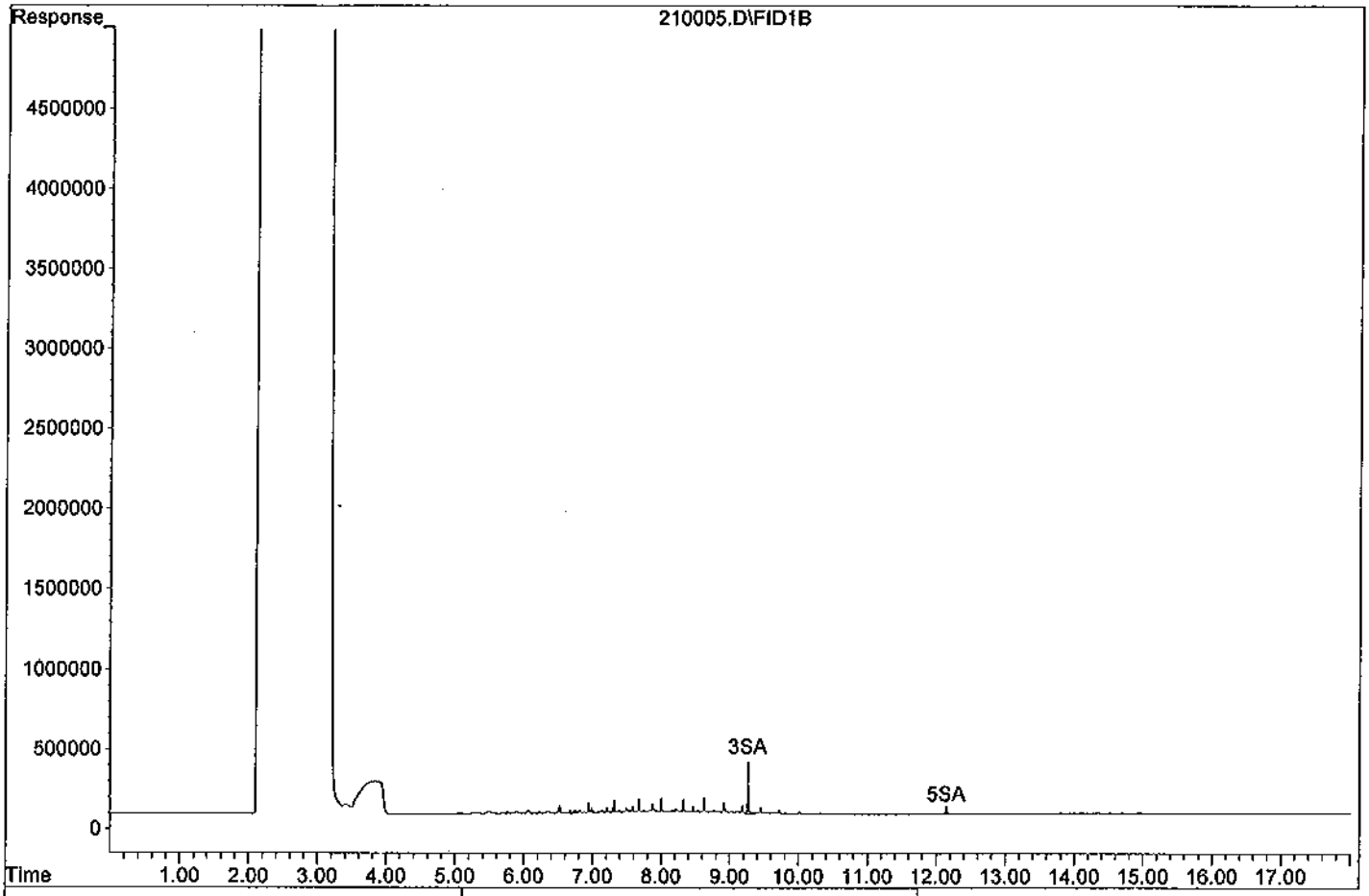
Method : G:\APOLLO\DATA\120220\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

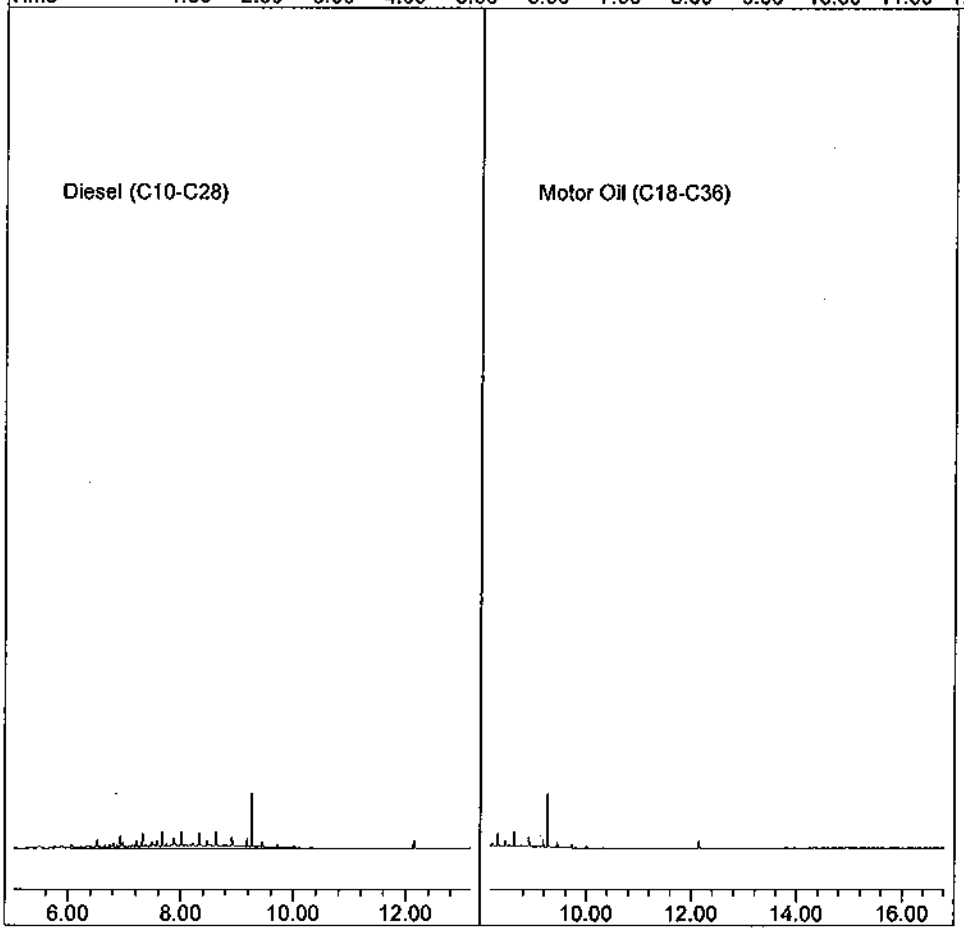
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.26	2929783	5.968 ppb
Surrogate Spike 30.000	Recovery =		19.89%
5) SA Not Used2(S)	12.15	651825	4.696 ppb
Surrogate Spike 30.000	Recovery =		15.65%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	37879818	58.316 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\120210\210005.D
Sample : DIESEL 100/1000





Quantitation Report (Not Reviewed)

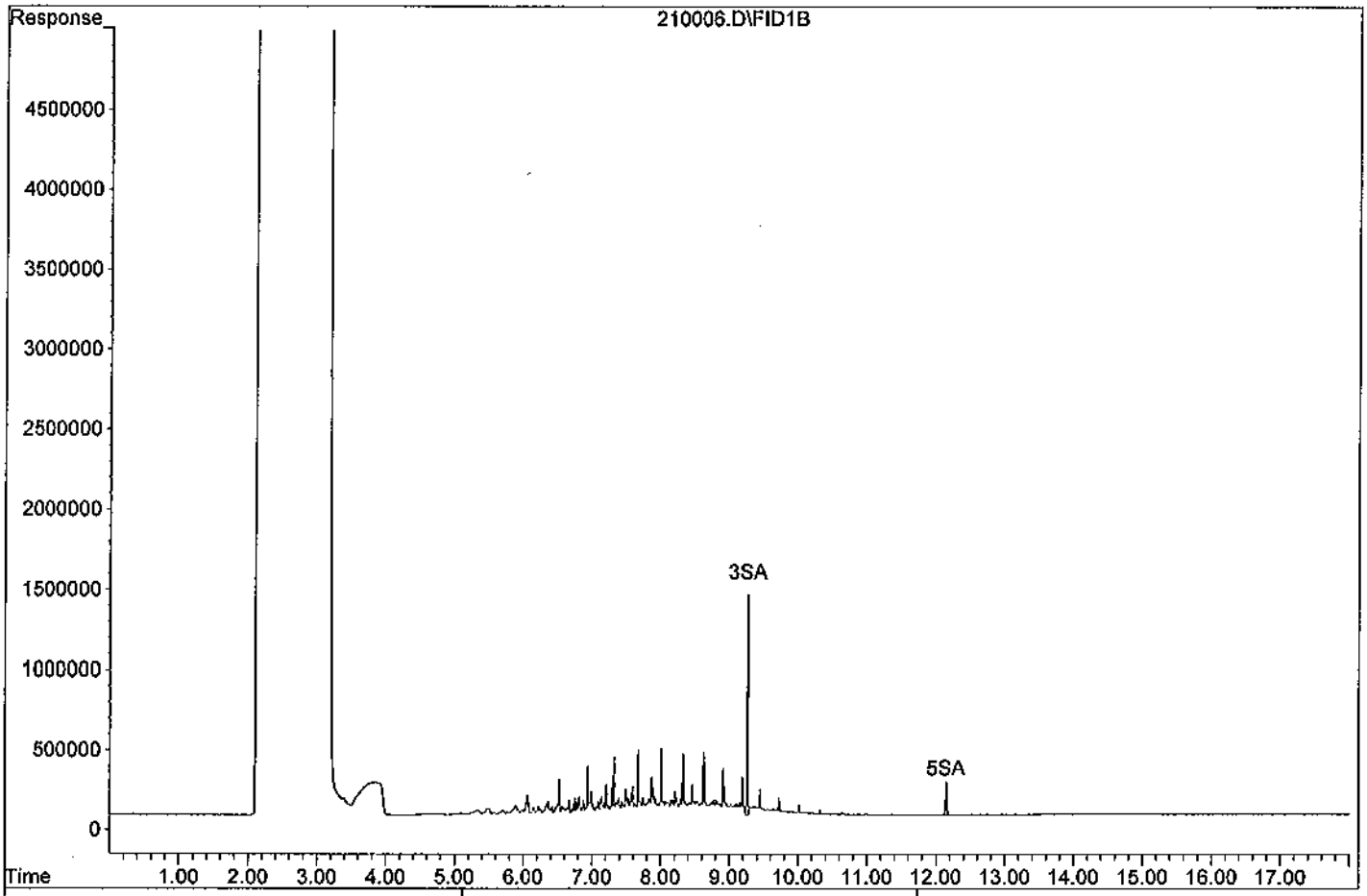
Data File : G:\APOLLO\DATA\120210\210006.D Vial: 6
Acq On : 2-10-12 16:37:20 Operator: LAC
Sample : DIESEL 400/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:39 2012 Quant Results File: TPH0210.RES

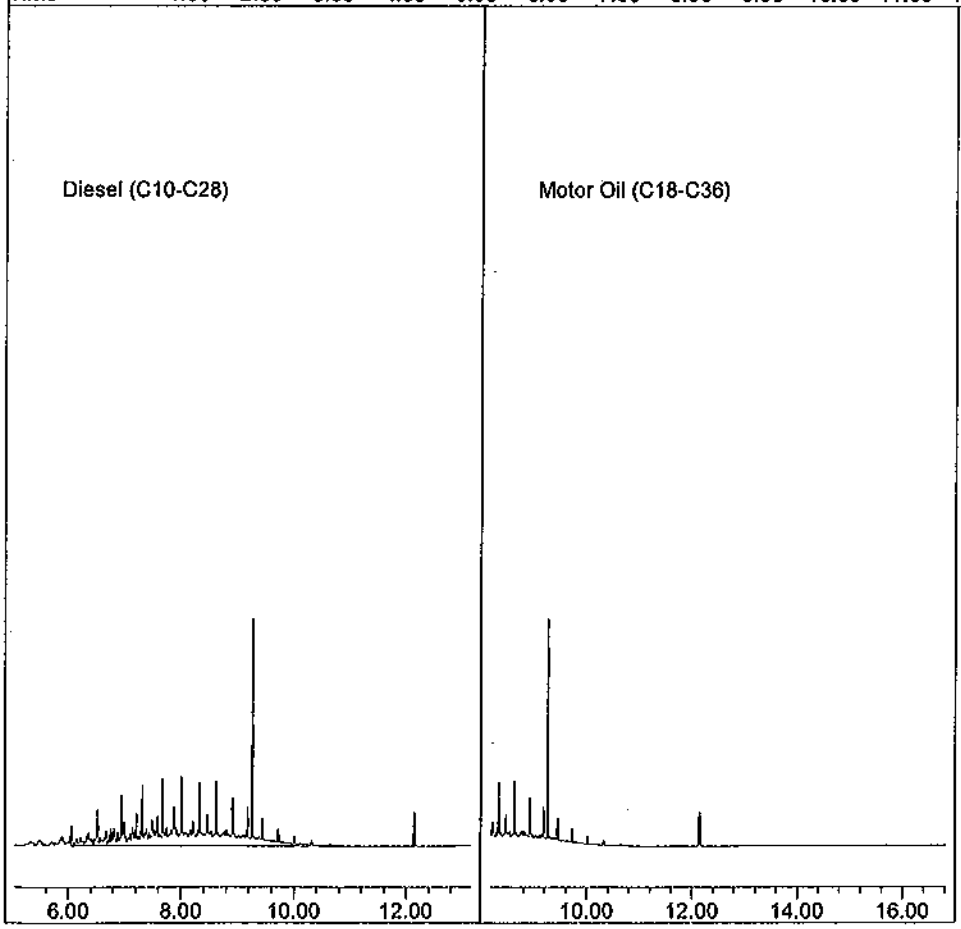
Method : G:\APOLLO\DATA\120220\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.26	9811181	18.222 ppb
Surrogate Spike 30.000	Recovery =		60.74%
5) SA Not Used2(S)	12.14	2726187	20.256 ppb
Surrogate Spike 30.000	Recovery =		67.52%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	152603910	296.791 ppb

Data File: G:\APOLLO\DATA\120210\210006.D
Sample : DIESEL 400/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\120210\210007.D Vial: 7
Acq On : 2-10-12 17:01:40 Operator: LAC
Sample : DIESEL 600/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:39 2012 Quant Results File: TPH0210.RES

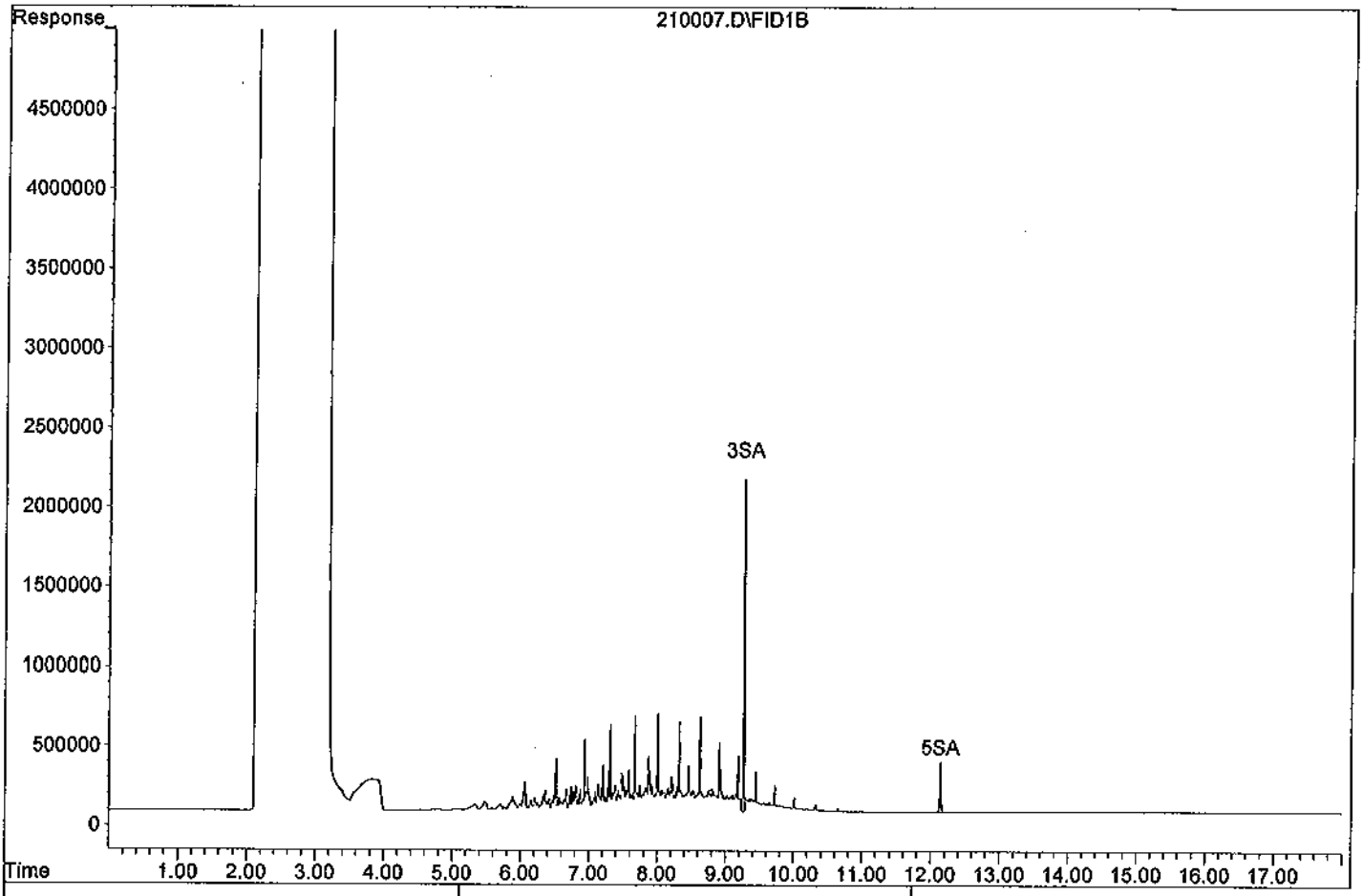
Method : G:\APOLLO\DATA\120220\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

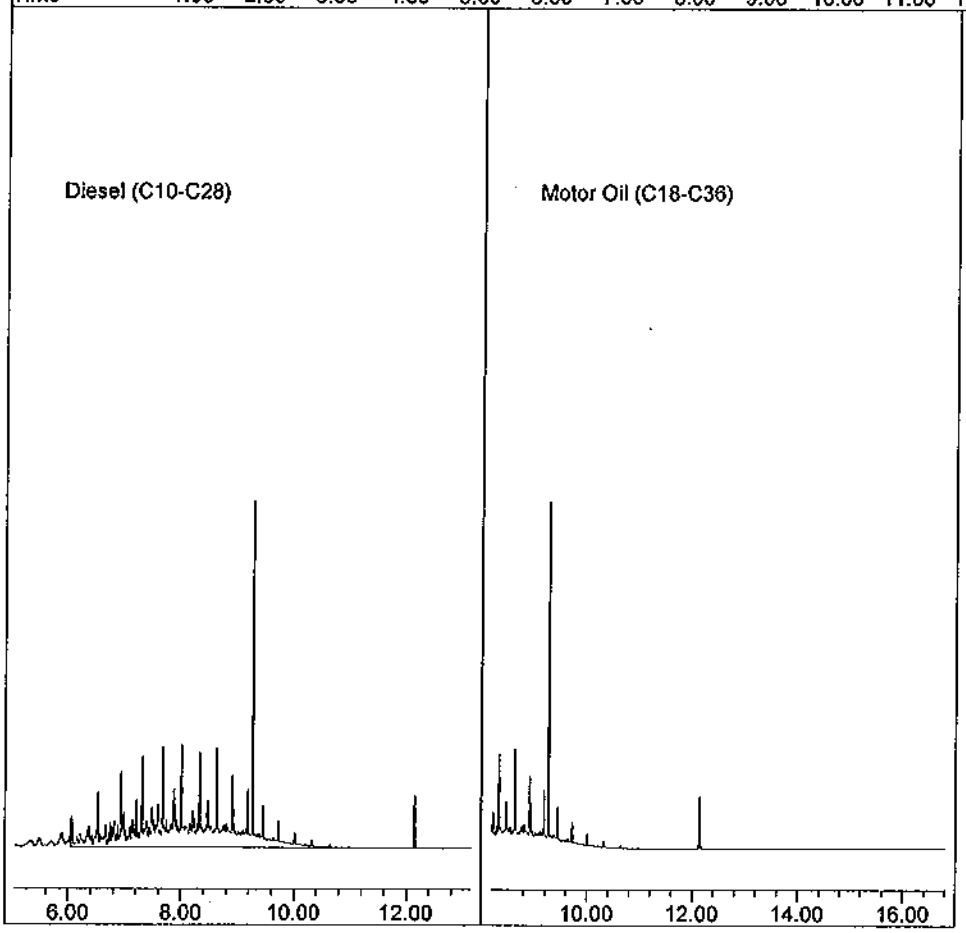
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.26	14869538	28.460 ppb
Surrogate Spike 30.000	Recovery =		94.87%
5) SA Not Used2(S)	12.14	4201651	31.086 ppb
Surrogate Spike 30.000	Recovery =		103.62%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	228476028	486.165 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
210007.D TPH0210.M Tue Mar 13 14:06:21 2012 Page 1

Data File: G:\APOLLO\DATA\120210\210007.D
Sample : DIESEL 600/1000





Quantitation Report (Not Reviewed)

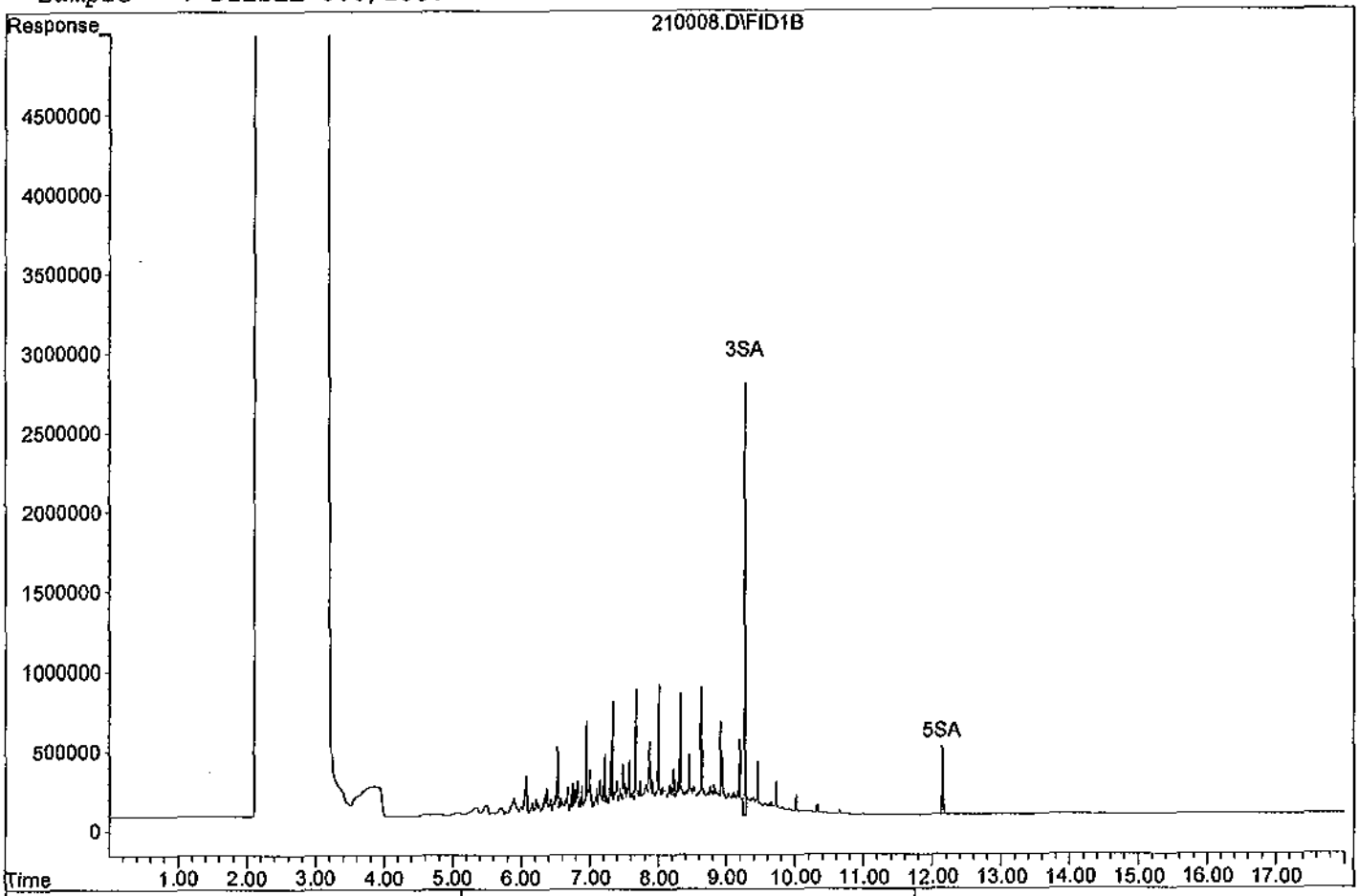
Data File : G:\APOLLO\DATA\120210\210008.D Vial: 8
Acq On : 2-10-12 17:25:59 Operator: LAC
Sample : DIESEL 800/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:39 2012 Quant Results File: TPH0210.RES

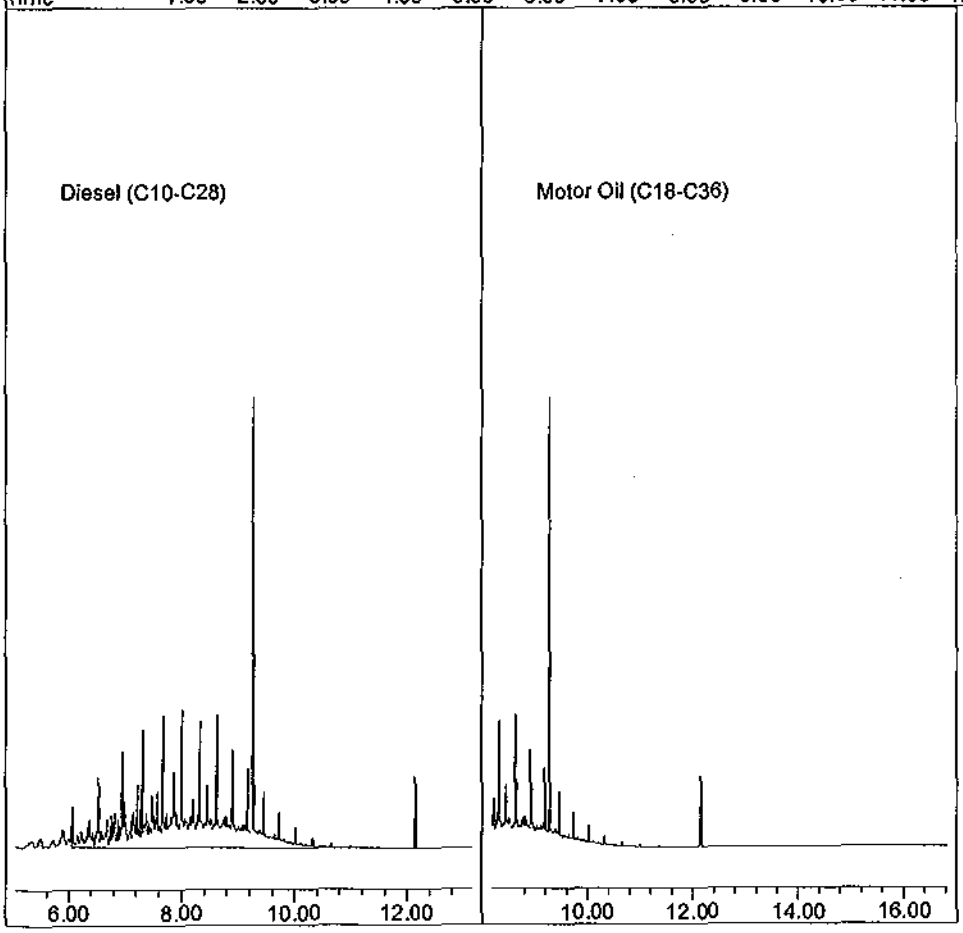
Method : G:\APOLLO\DATA\120220\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.26	20138733	39.046 ppb
Surrogate Spike 30.000	Recovery =		130.15%
5) SA Not Used2(S)	12.14	5452587	39.979 ppb
Surrogate Spike 30.000	Recovery =		133.26%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	304054859	679.201 ppb

Data File: G:\APOLLO\DATA\120210\210008.D
Sample : DIESEL 800/1000





Quantitation Report (Not Reviewed)

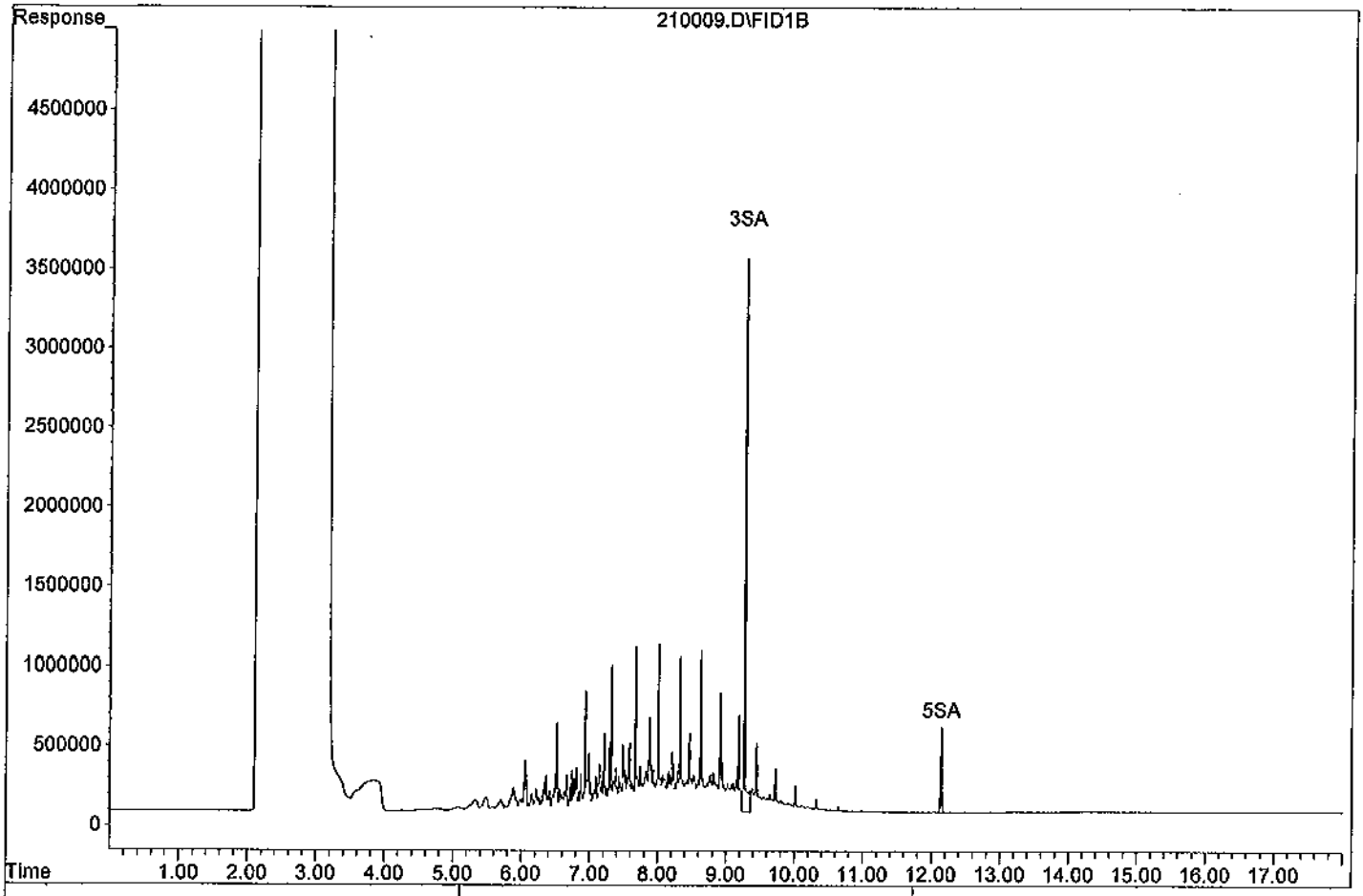
Data File : G:\APOLLO\DATA\120210\210009.D Vial: 9
Acq On : 2-10-12 17:50:15 Operator: LAC
Sample : DIESEL 1000/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:40 2012 Quant Results File: TPH0210.RES

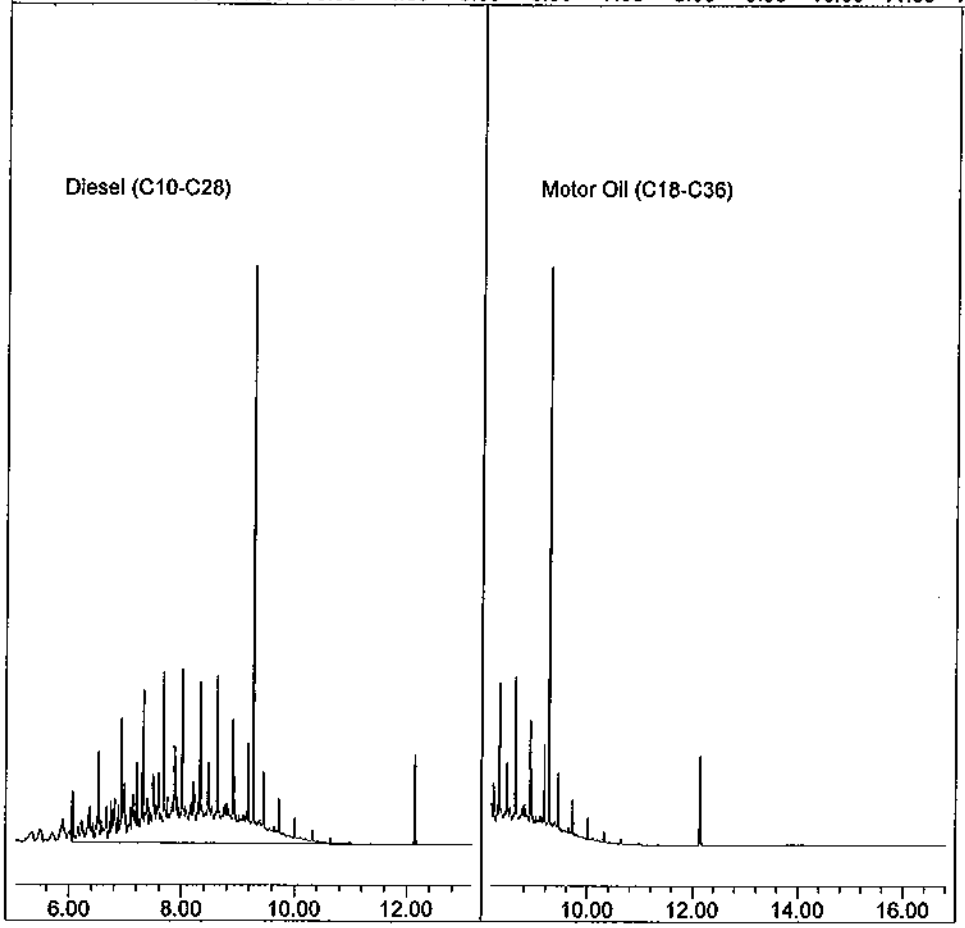
Method : G:\APOLLO\DATA\120220\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.27	31742679	61.839 ppb
Surrogate Spike 30.000	Recovery =		206.13%
5) SA Not Used2(S)	12.14	7017310	51.457 ppb
Surrogate Spike 30.000	Recovery =		171.52%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	382411496	880.836 ppb

Data File: G:\APOLLO\DATA\120210\210009.D
Sample : DIESEL 1000/1000





Quantitation Report (Not Reviewed)

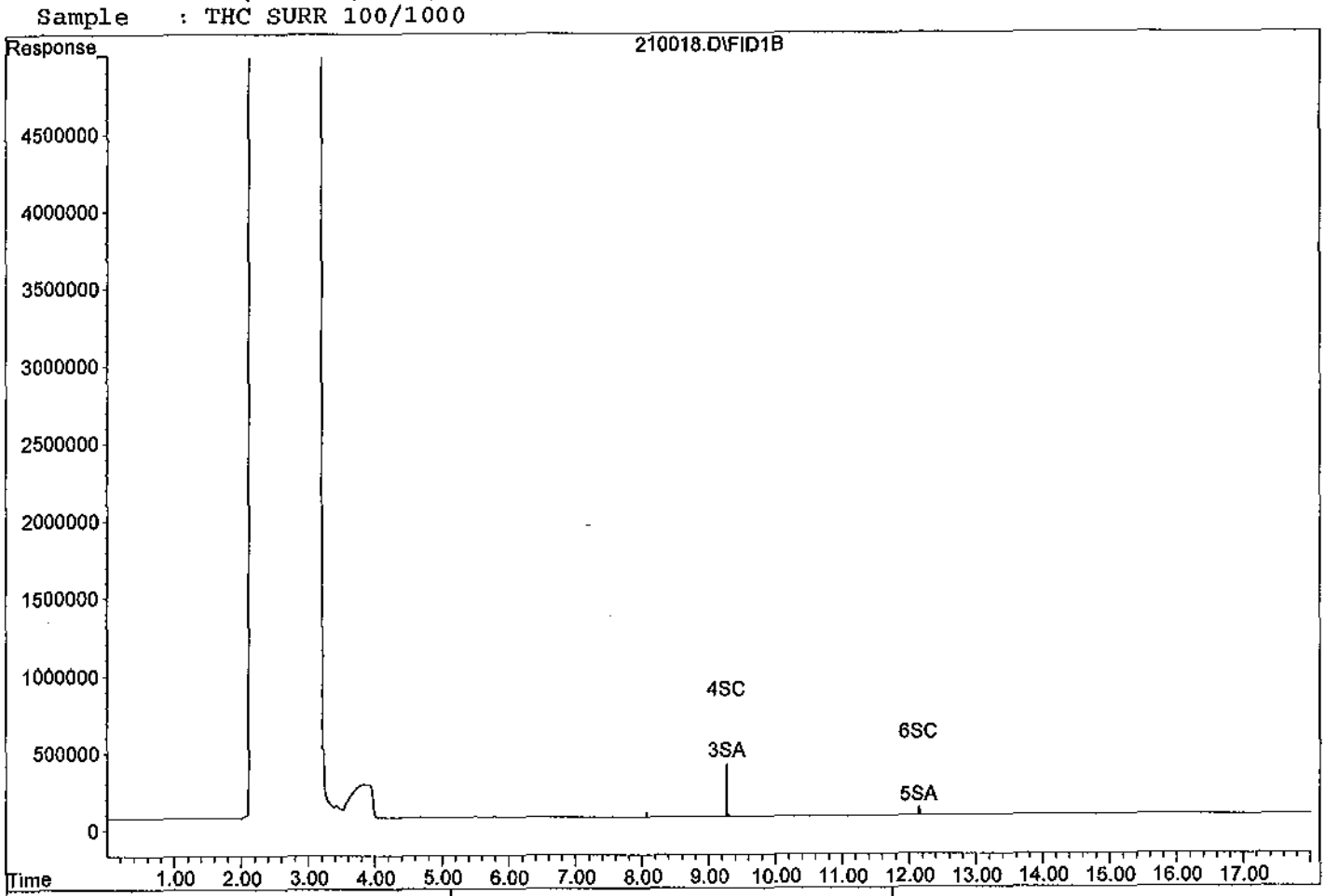
Data File : G:\APOLLO\DATA\120210\210018.D Vial: 18
Acq On : 2-10-12 21:25:57 Operator: LAC
Sample : THC SURR 100/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 13 14:10 2012 Quant Results File: TPH0210.RES

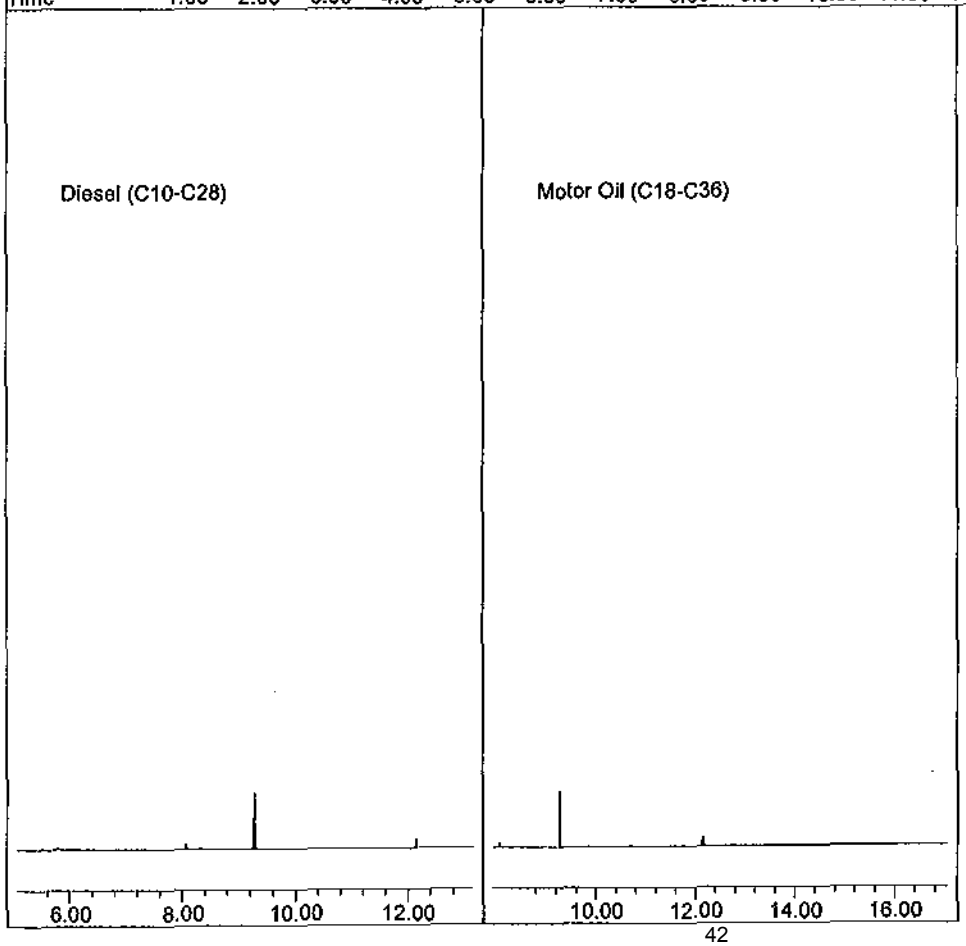
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.26	2494731	4.676 ppb
Surrogate Spike 30.000	Recovery =		15.59%
4) SC Ortho-Terphenyl(S)	9.26	2494731	4.935 ppb
Surrogate Spike 30.000	Recovery =		16.45%
5) SA Not Used2(S)	12.14	786360	5.738 ppb
Surrogate Spike 30.000	Recovery =		19.13%
6) SC Octacosane(S)	12.14	786360	4.783 ppb
Surrogate Spike 30.000	Recovery =		15.94%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	2716296	4.511 ppb
2) HBTM Motor Oil (C18-C36)	12.49	12130922	66.278 ppb

Data File: G:\APOLLO\DATA\120210\210018.D
Sample : THC SURR 100/1000





Quantitation Report (Not Reviewed)

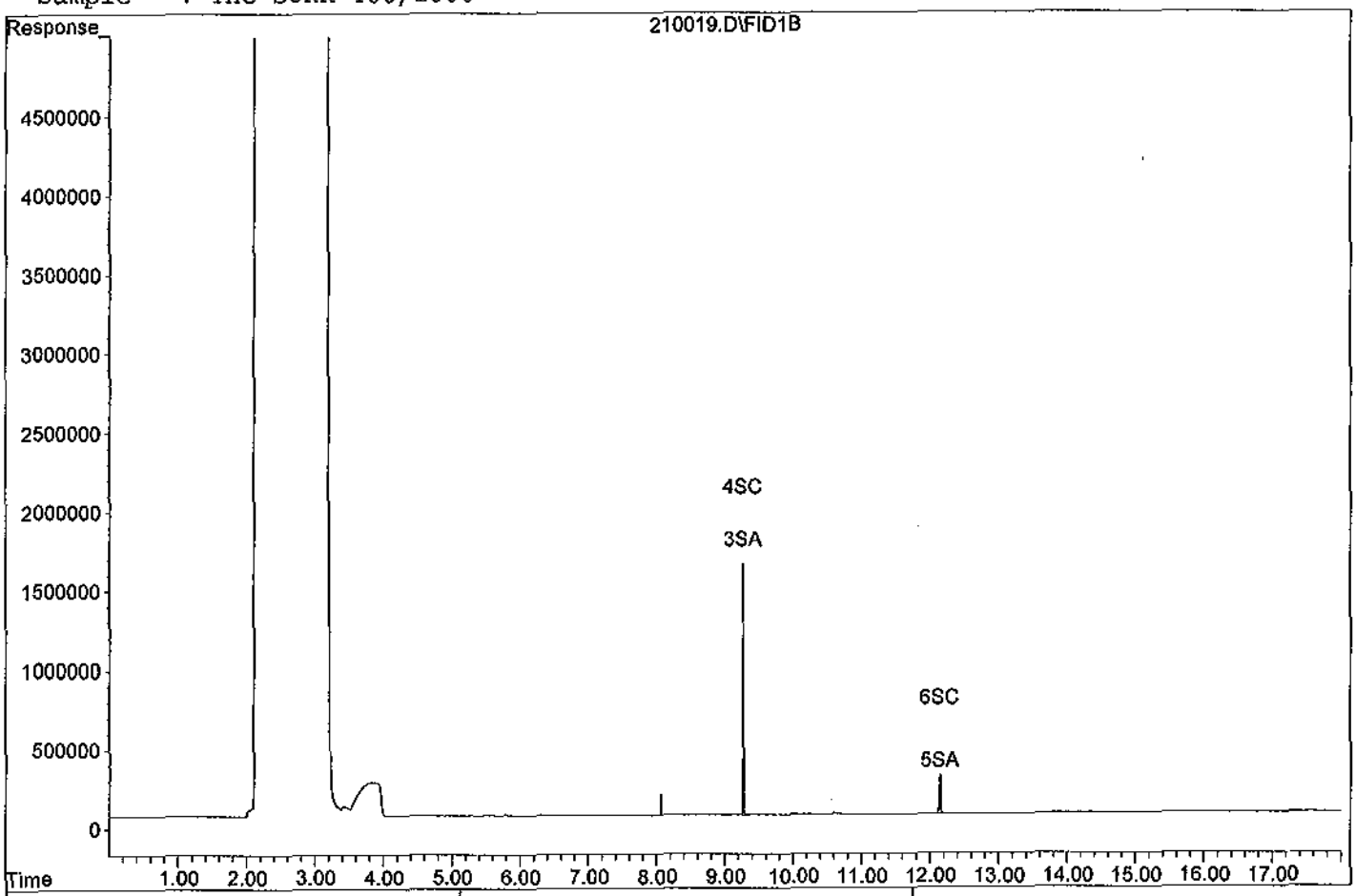
Data File : G:\APOLLO\DATA\120210\210019.D Vial: 19
Acq On : 2-10-12 21:49:45 Operator: LAC
Sample : THC SURR 400/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 13 14:10 2012 Quant Results File: TPH0210.RES

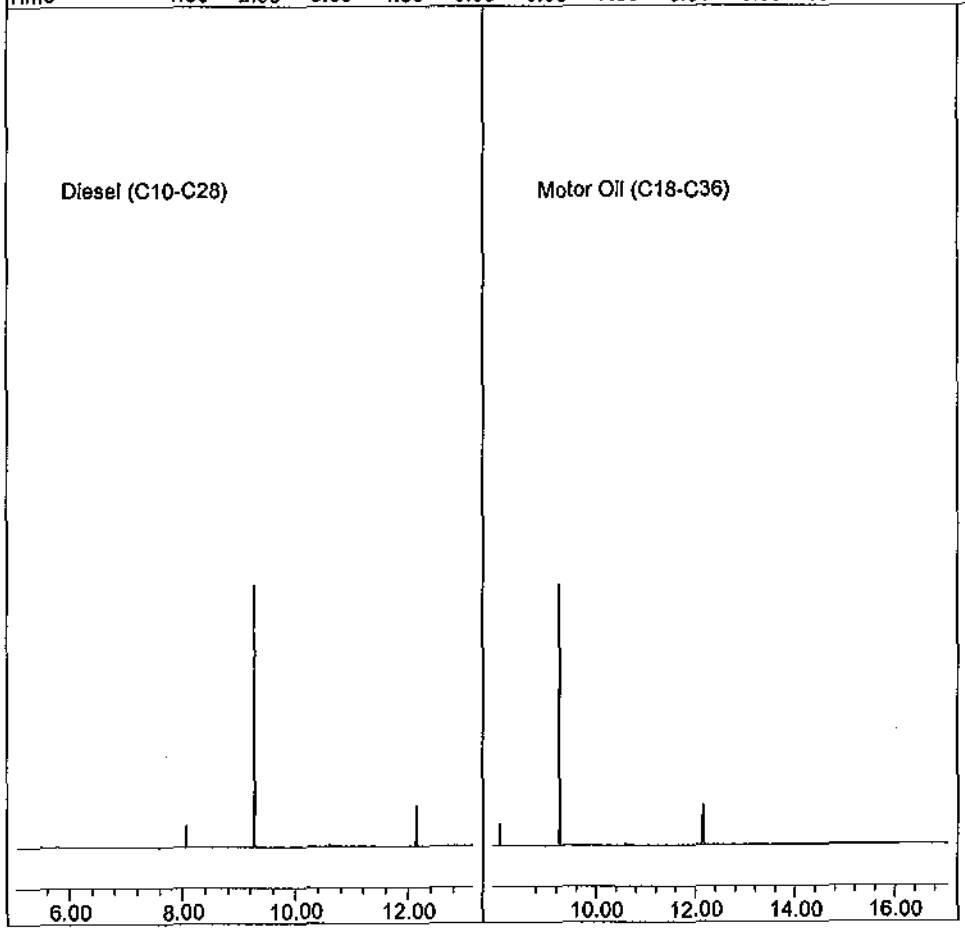
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.26	10109302	18.947 ppb
Surrogate Spike 30.000		Recovery =	63.16%
4) SC Ortho-Terphenyl(S)	9.26	10109302	19.998 ppb
Surrogate Spike 30.000		Recovery =	66.66%
5) SA Not Used2(S)	12.14	3264885	23.825 ppb
Surrogate Spike 30.000		Recovery =	79.42%
6) SC Octacosane(S)	12.14	3264885	19.857 ppb
Surrogate Spike 30.000		Recovery =	66.19%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	4338429	8.779 ppb
2) HBTM Motor Oil (C18-C36)	12.49	11896309	64.996 ppb

Data File: G:\APOLLO\DATA\120210\210019.D
Sample : THC SURR 400/1000





Quantitation Report (Not Reviewed)

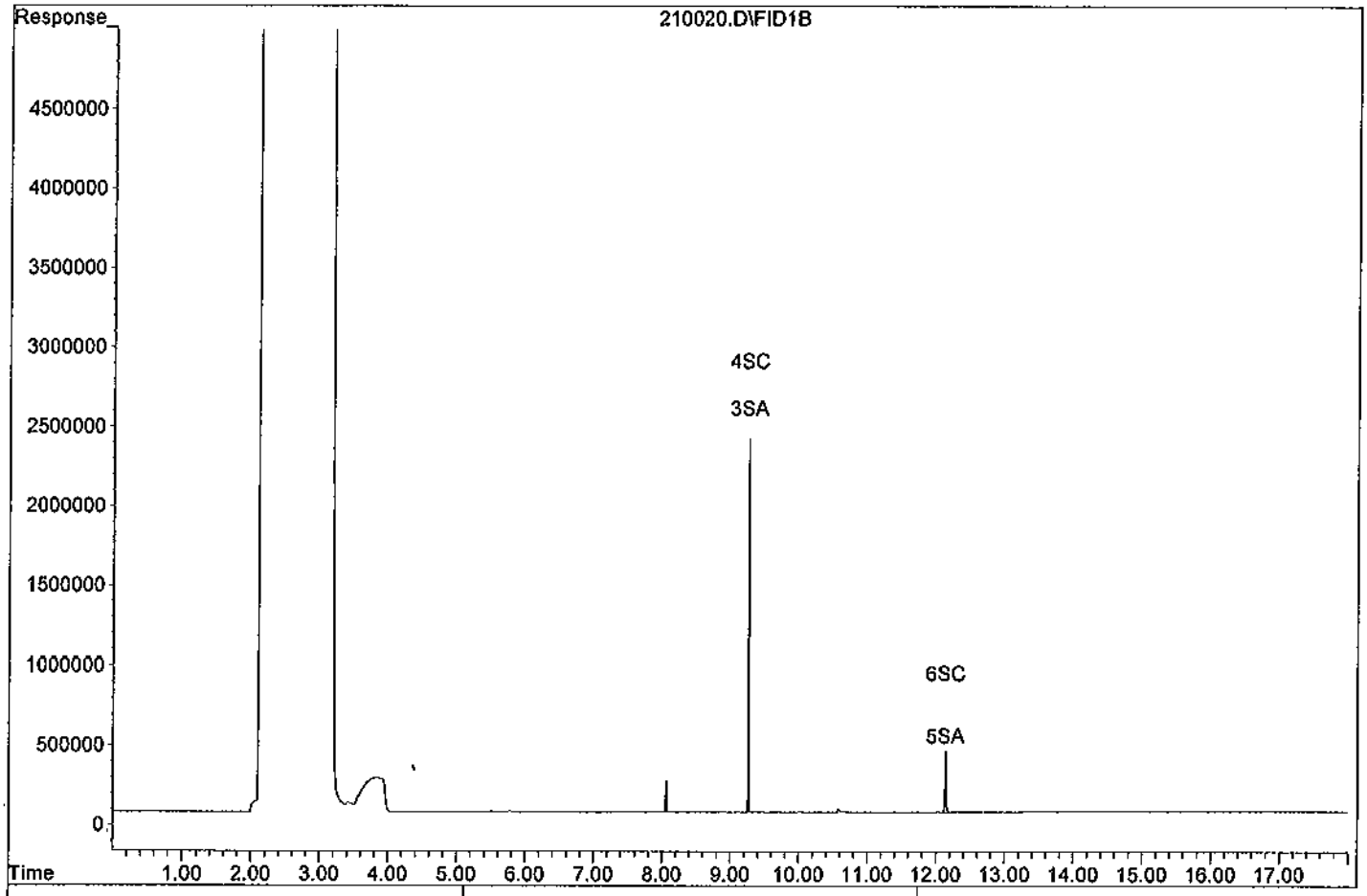
Data File : G:\APOLLO\DATA\120210\210020.D Vial: 20
Acq On : 2-10-12 22:13:31 Operator: LAC
Sample : THC SURR 600/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 13 14:10 2012 Quant Results File: TPH0210.RES

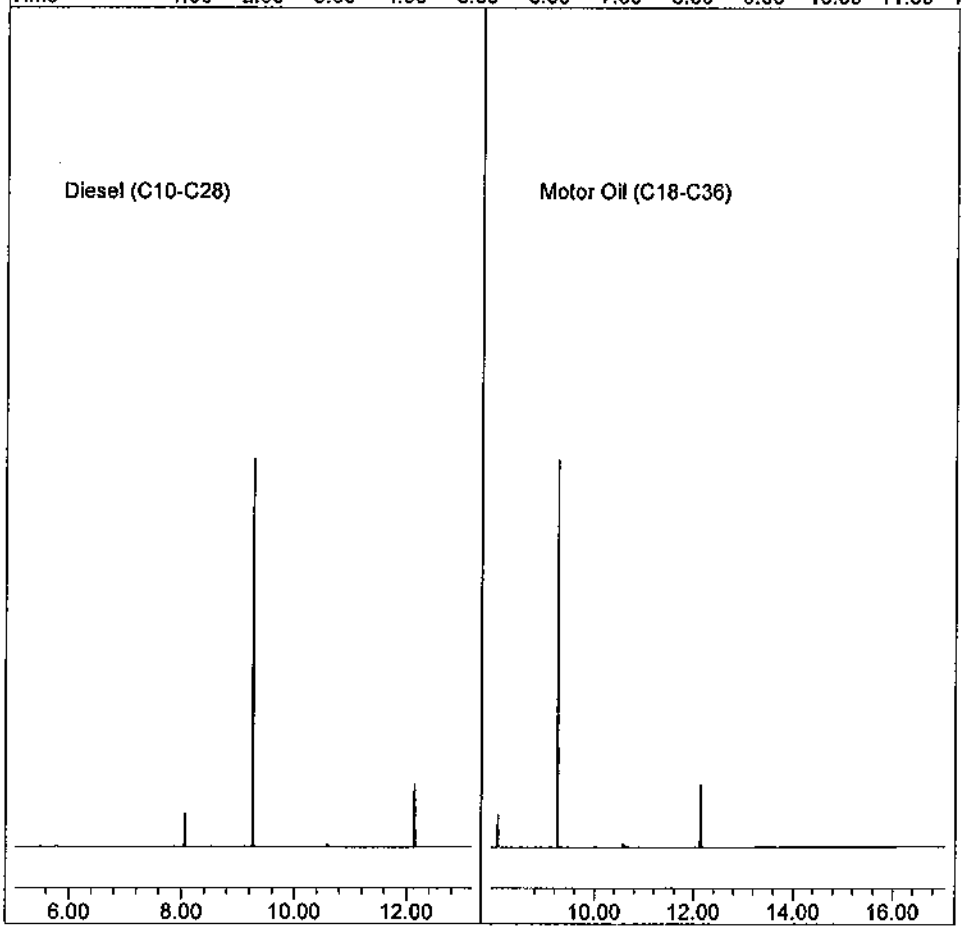
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Not Used(S)	9.26	15225656	28.536	ppb
Surrogate Spike 30.000	Recovery =		95.12%	
4) SC Ortho-Terphenyl(S)	9.26	15225656	30.119	ppb
Surrogate Spike 30.000	Recovery =		100.40%	
5) SA Not Used2(S)	12.14	4903340	35.782	ppb
Surrogate Spike 30.000	Recovery =		119.27%	
6) SC Octacosane(S)	12.14	4903340	29.821	ppb
Surrogate Spike 30.000	Recovery =		99.40%	
Target Compounds				
1) HATM Diesel (C10-C28)	9.10	5621371	12.155	ppb
2) HBTM Motor Oil (C18-C36)	12.49	11292530	61.698	ppb

Data File: G:\APOLLO\DATA\120210\210020.D
Sample : THC SURR 600/1000





Quantitation Report (Not Reviewed)

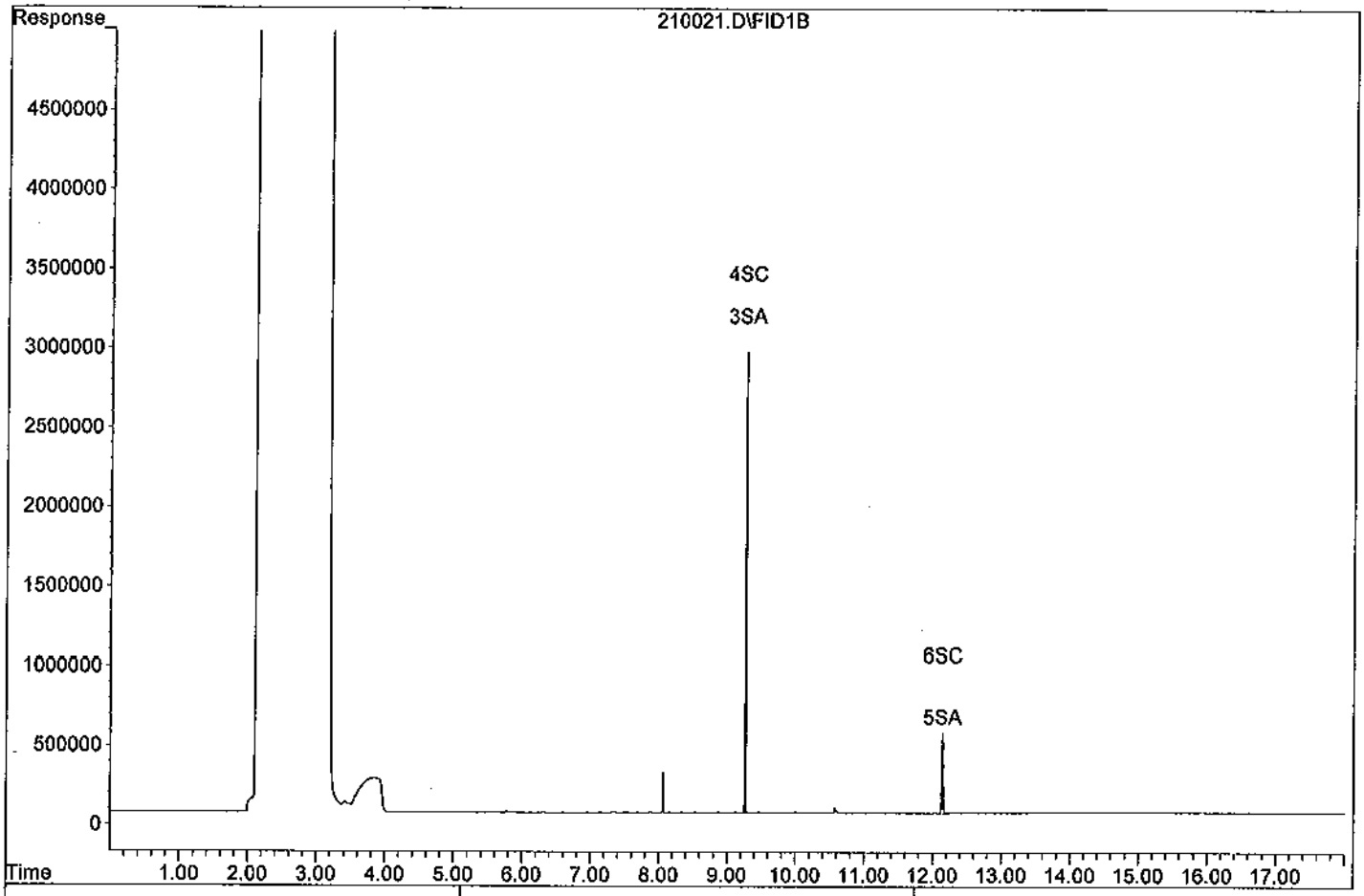
Data File : G:\APOLLO\DATA\120210\210021.D Vial: 21
Acq On : 2-10-12 22:37:15 Operator: LAC
Sample : THC SURR 800/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 13 14:10 2012 Quant Results File: TPH0210.RES

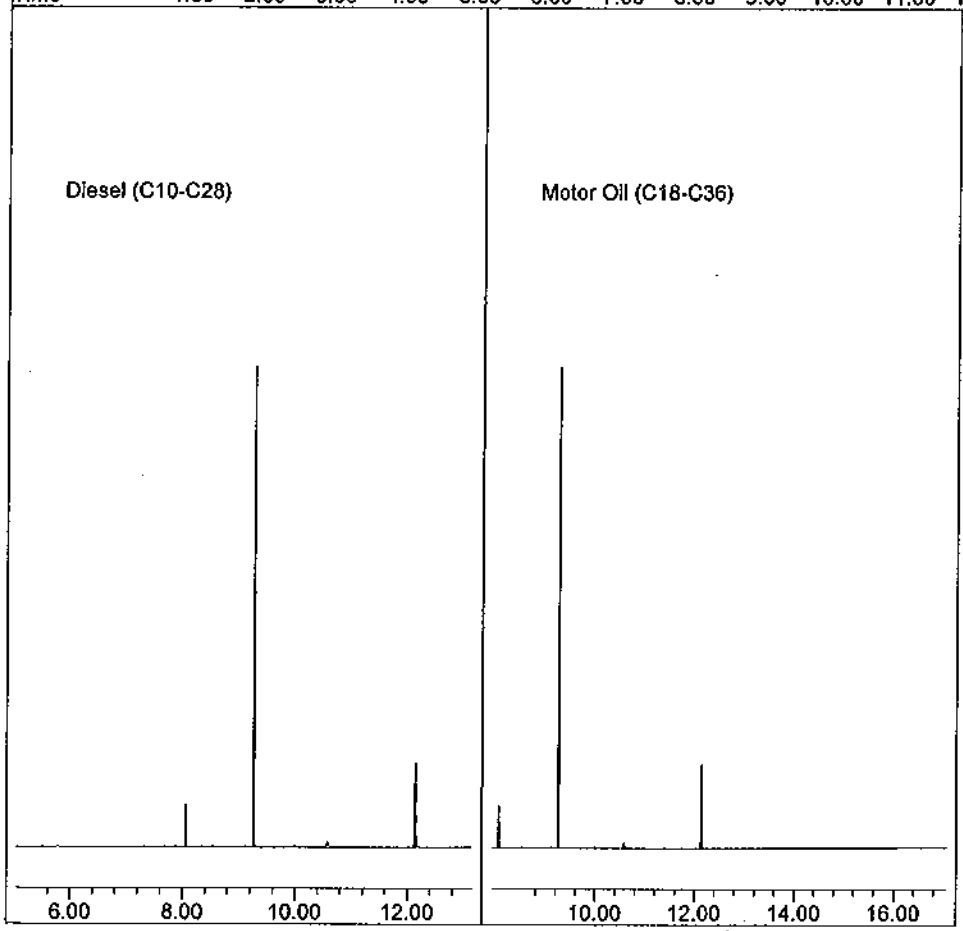
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Not Used(S)	9.26	19387319	36.335	ppb
Surrogate Spike 30.000	Recovery =		121.12%	
4) SC Ortho-Terphenyl(S)	9.26	19387319	38.352	ppb
Surrogate Spike 30.000	Recovery =		127.84%	
5) SA Not Used2(S)	12.14	6465685	47.183	ppb
Surrogate Spike 30.000	Recovery =		157.28%	
6) SC Octacosane(S)	12.14	6465685	39.323	ppb
Surrogate Spike 30.000	Recovery =		131.08%	
Target Compounds				
1) HATM Diesel (C10-C28)	9.10	6359438	14.097	ppb
2) HBTM Motor Oil (C18-C36)	12.49	10716765	58.552	ppb

Data File: G:\APOLLO\DATA\120210\210021.D
Sample : THC SURR 800/1000





Quantitation Report (Not Reviewed)

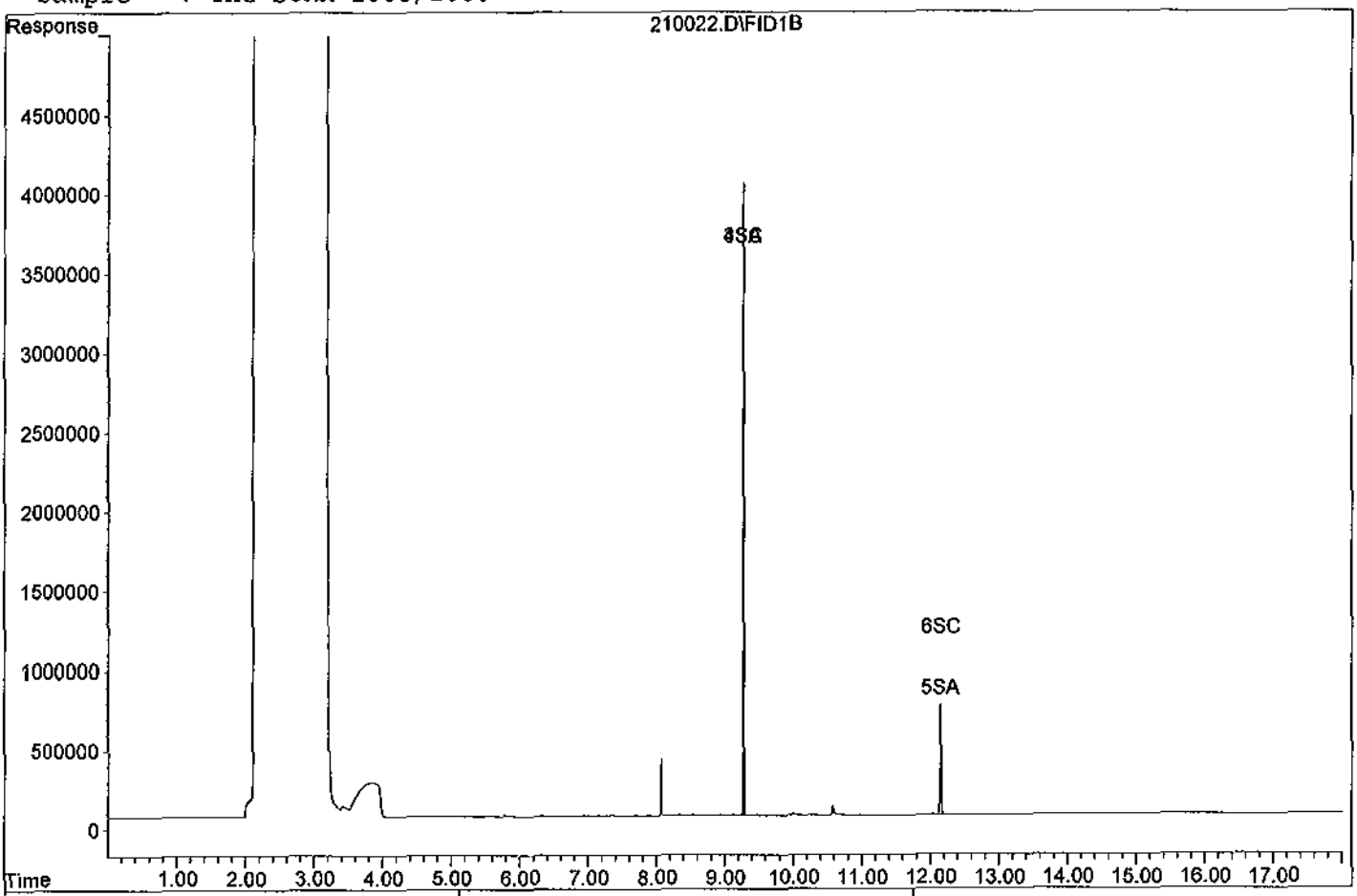
Data File : G:\APOLLO\DATA\120210\210022.D Vial: 22
Acq On : 2-10-12 23:00:58 Operator: LAC
Sample : THC SURR 1000/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 13 14:10 2012 Quant Results File: TPH0210.RES

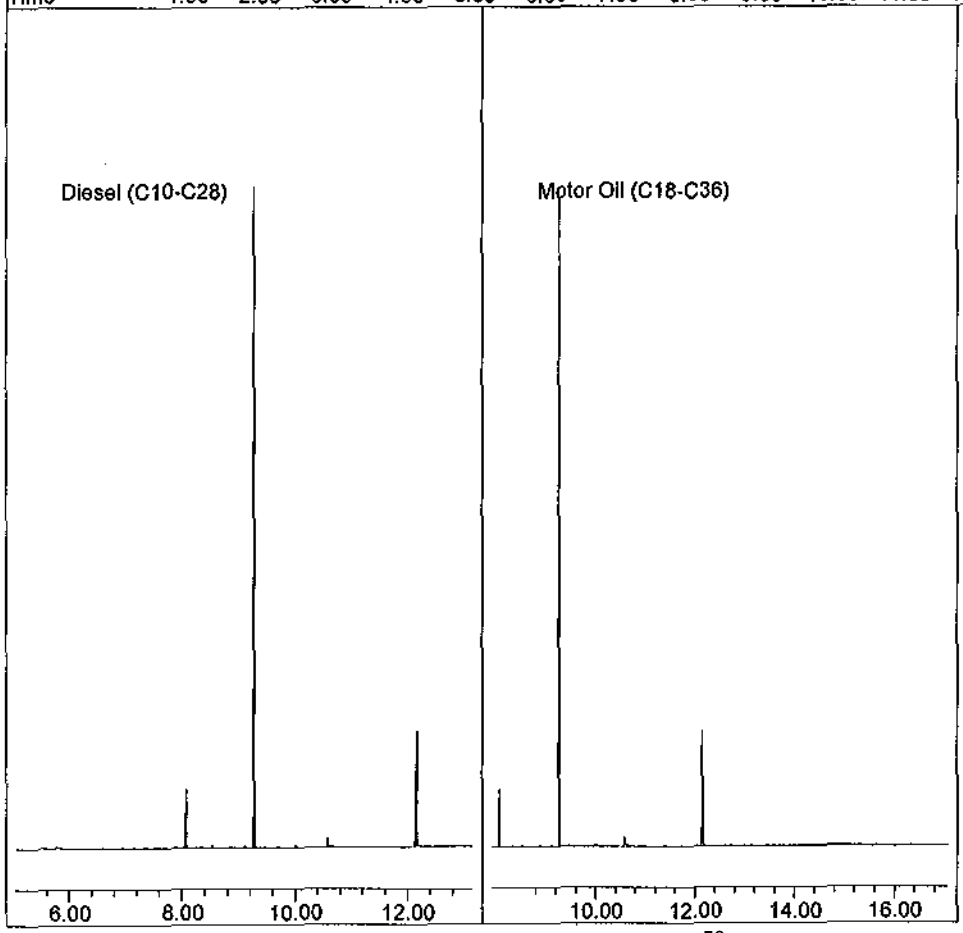
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.27	26546488	49.753 ppb
Surrogate Spike 30.000	Recovery =		165.84%
4) SC Ortho-Terphenyl(S)	9.27	26546488	52.514 ppb
Surrogate Spike 30.000	Recovery =		175.05%
5) SA Not Used2(S)	12.14	8825648	64.405 ppb
Surrogate Spike 30.000	Recovery =		214.68%
6) SC Octacosane(S)	12.14	8825648	53.676 ppb
Surrogate Spike 30.000	Recovery =		178.92%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	8578745	19.937 ppb
2) HBTM Motor Oil (C18-C36)	12.49	11398079	62.274 ppb

Data File: G:\APOLLO\DATA\120210\210022.D
Sample : THC SURR 1000/1000





TPH Extractables
TPH0210

Form 7

Second Source Calibration

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

SDG No: 66972
Date Analyzed: 02/10/12
Instrument: Apollo
Initial Cal. Date: 02/10/12
Data File: 210010.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	212762	191399	10	HATML	0.07
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
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30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			10.0		

Quantitation Report (Not Reviewed)

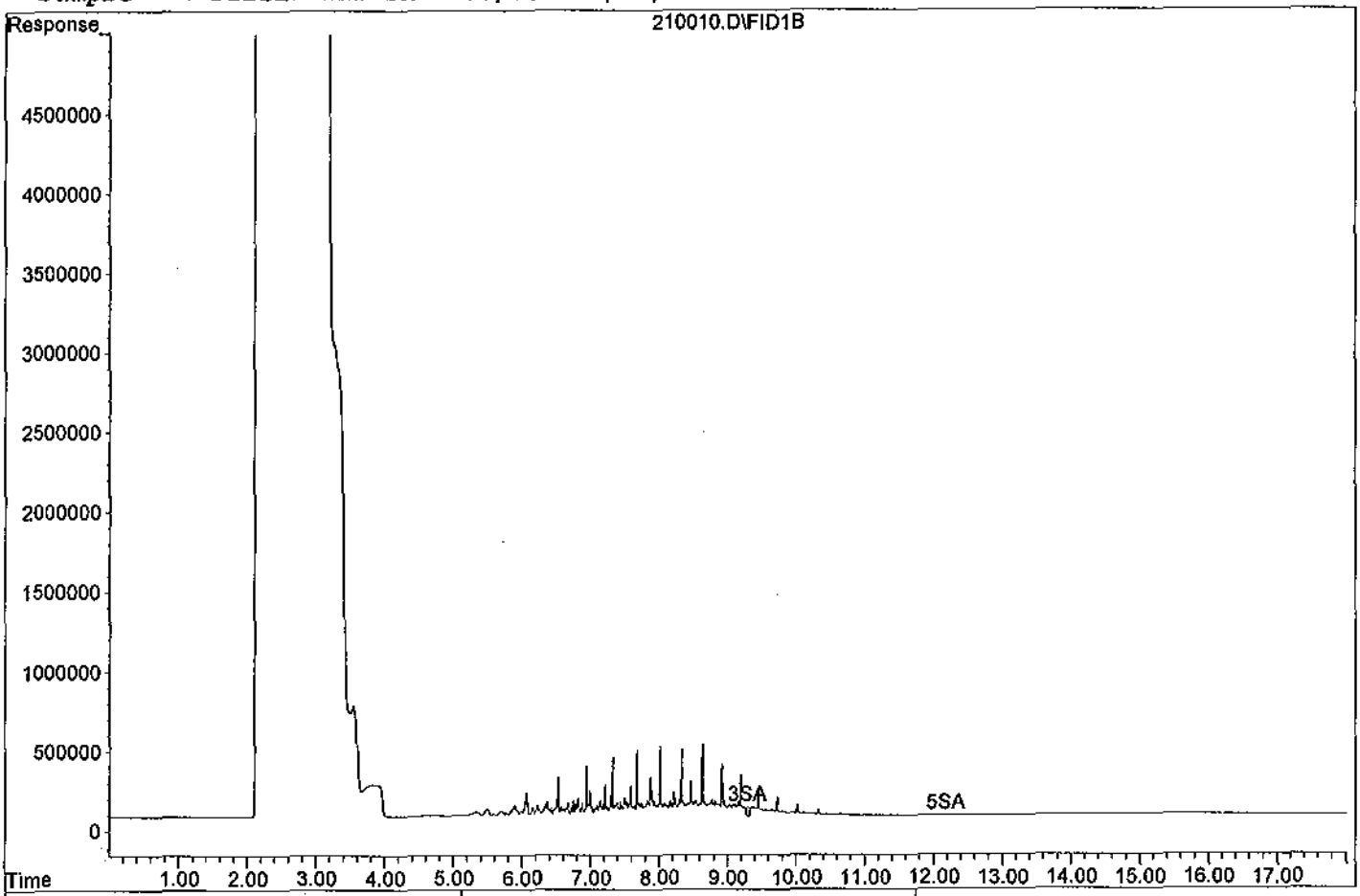
Data File : G:\APOLLO\DATA\120210\210010.D Vial: 10
Acq On : 2-10-12 18:14:27 Operator: LAC
Sample : DIESEL 2ND SRC 400/1000 2/10/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Feb 13 9:40 2012 Quant Results File: TPH0210.RES

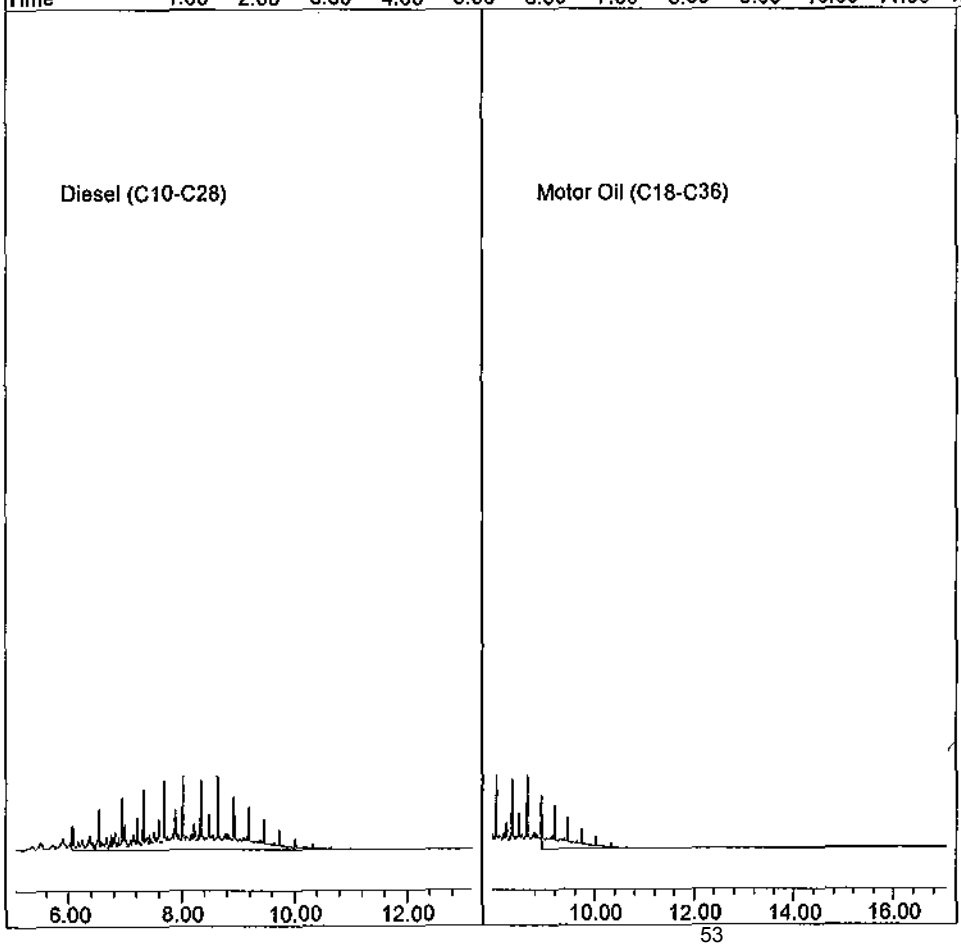
Method : G:\APOLLO\DATA\120220\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.29	1527551	2.863 ppb
Surrogate Spike 30.000	Recovery =		9.54%
5) SA Not Used2(S)	12.18	4841	0.035 ppb
Surrogate Spike 30.000	Recovery =		0.12%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	153119527	400.270 ppb

Data File: G:\APOLLO\DATA\120210\210010.D
Sample : DIESEL 2ND SRC 400/1000 2/10/12





TPH Extractables
TPH0210

Form 7

Continuing Calibration

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

SDG No: 66972
Date Analyzed: 02/22/12
Instrument: Apollo
Initial Cal. Date: 02/10/12
Data File: 222003.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	212762	179893	15	HATML	6.0
2							
3							
4							
5							
6							
7							
8							
9							
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36							
37							
38							
39							
40							
		Average			15.0		

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120222\222003.D Vial: 3
Acq On : 2-22-12 16:03:38 Operator: LAC
Sample : DIESEL 400/1000 2/20/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 13 14:28 2012 Quant Results File: TPH0210.RES

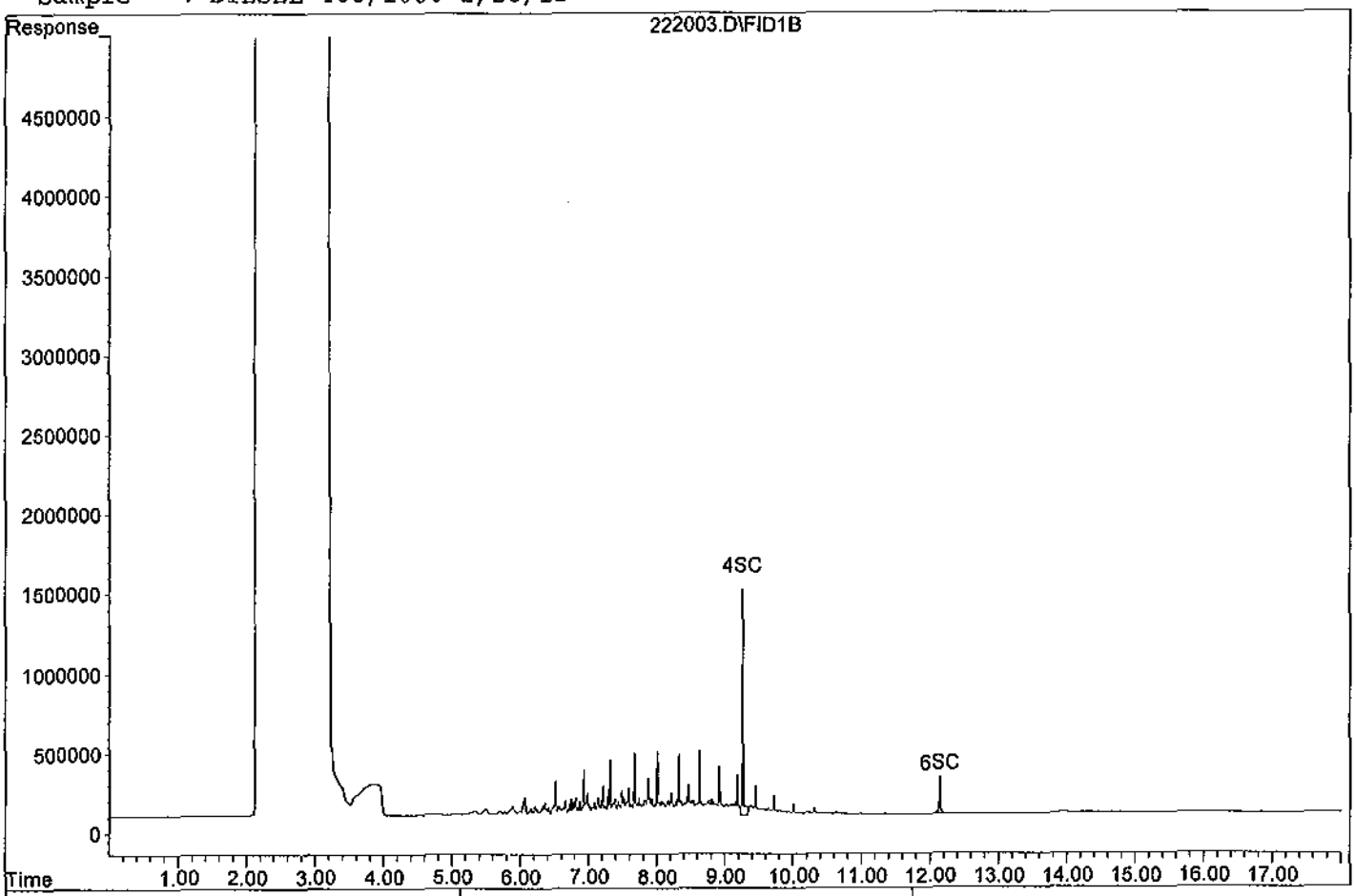
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

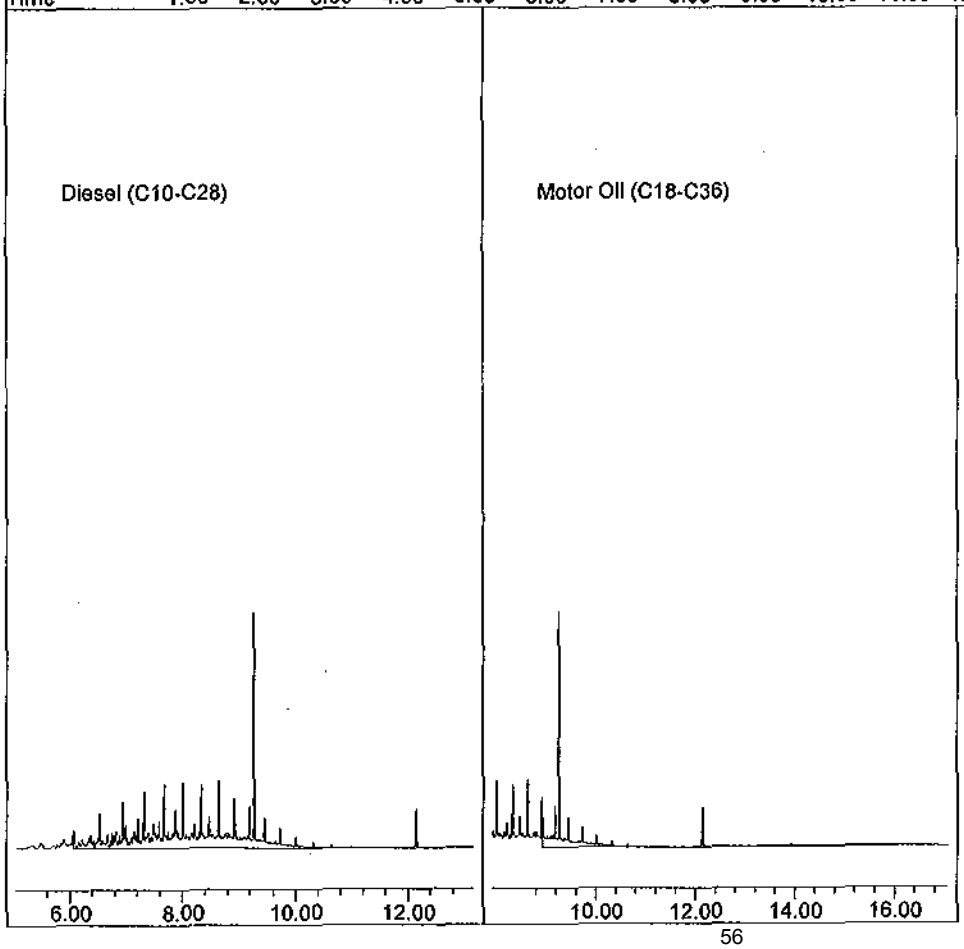
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.26	11843563	23.429 ppb
Surrogate Spike 30.000	Recovery =		78.10%
6) SC Octacosane(S)	12.14	3438471	20.912 ppb
Surrogate Spike 30.000	Recovery =		69.71%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	143914544	376.048 ppb
2) HBTM Motor Oil (C18-C36)	12.49	42834345	234.029 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\120222\222003.D
Sample : DIESEL 400/1000 2/20/12





TPH Extractables
TPH0210

Form 7

Continuing Calibration

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

SDG No: 66972
Date Analyzed: 02/22/12
Instrument: Apollo
Initial Cal. Date: 02/10/12
Data File: 222017.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	212762	184448	13	HATML	3.6
2							
3							
4							
5							
6							
7							
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36							
37							
38							
39							
40							
		Average			13.0		

Quantitation Report (QT Reviewed)

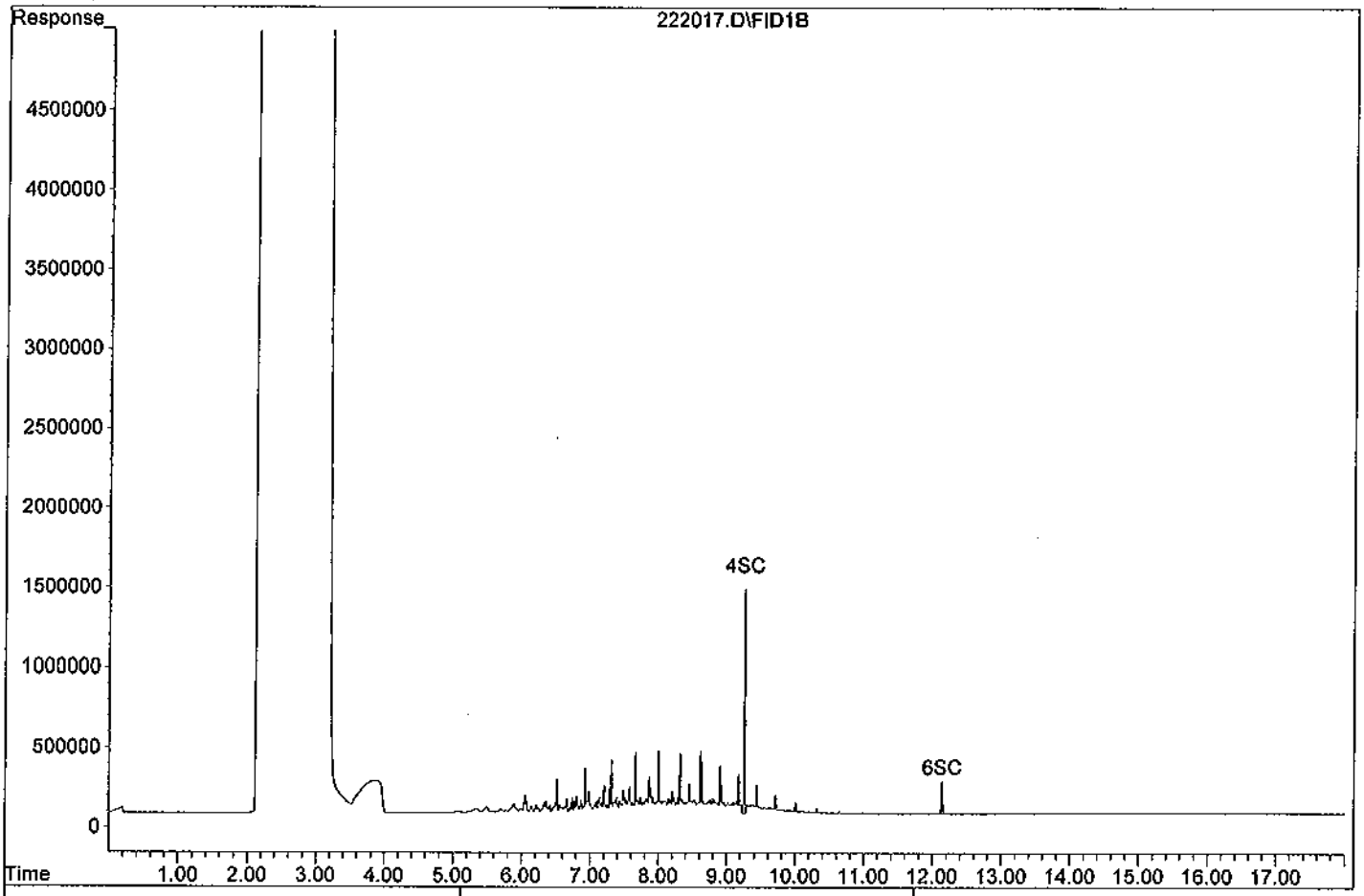
Data File : G:\APOLLO\DATA\120222\222017.D Vial: 17
Acq On : 2-22-12 21:38:36 Operator: LAC
Sample : DIESEL 400/1000 2/13/12 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 6 15:52 2012 Quant Results File: TPH0210.RES

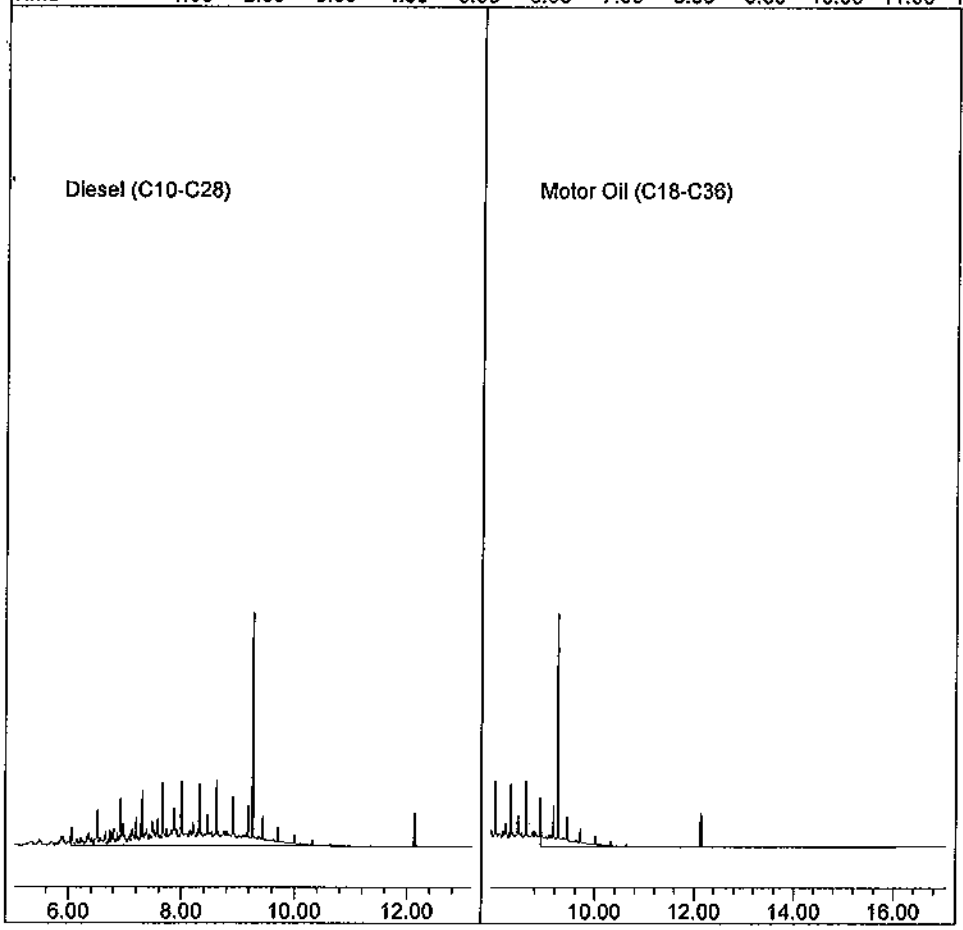
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.26	9999787	19.782 ppb
Surrogate Spike 30.000	Recovery =		65.94%
6) SC Octacosane(S)	12.14	2696437	16.399 ppb
Surrogate Spike 30.000	Recovery =		54.66%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	147558444	385.637 ppb
2) HBTM Motor Oil (C18-C36)	12.49	40683216	222.276 ppb

Data File: G:\APOLLO\DATA\120222\222017.D
Sample : DIESEL 400/1000 2/13/12





EPA 8015 Modified
Total Petroleum Hydrocarbons
Raw Data

Method Blank
TPH Diesel Water

Blank Name/QCG: **120221W-54765 - 164136**
Batch ID: #TPETD-120221A

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	02/21/12	02/22/12
BLANK	SURROGATE: OCTACOSANE (S)	105	28-142			%	02/21/12	02/22/12
BLANK	SURROGATE: ORTHO-TERPHEN	79.4	57-132			%	02/21/12	02/22/12

Quant Method: TPH0210.M
Run #: 222006
Instrument: Apollo
Sequence: 120222
Initials: LA

Printed: 03/13/12 2:41:45 PM
GC SC-Blank-REG MDLs

Quantitation Report (QT Reviewed)

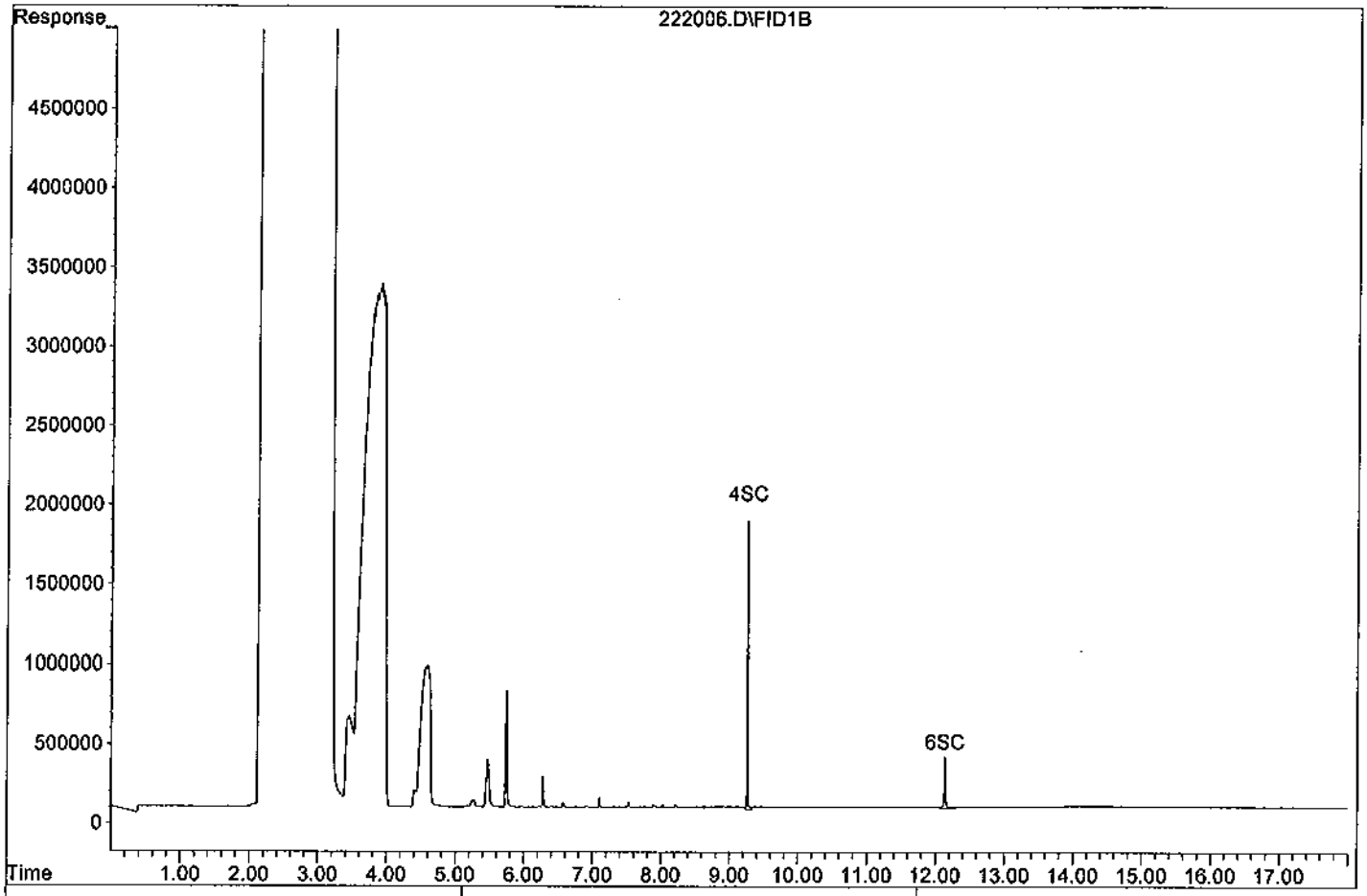
Data File : G:\APOLLO\DATA\120222\222006.D Vial: 6
Acq On : 2-22-12 17:16:14 Operator: LAC
Sample : 120221A BLK 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Feb 23 10:59 2012 Quant Results File: TPH0210.RES

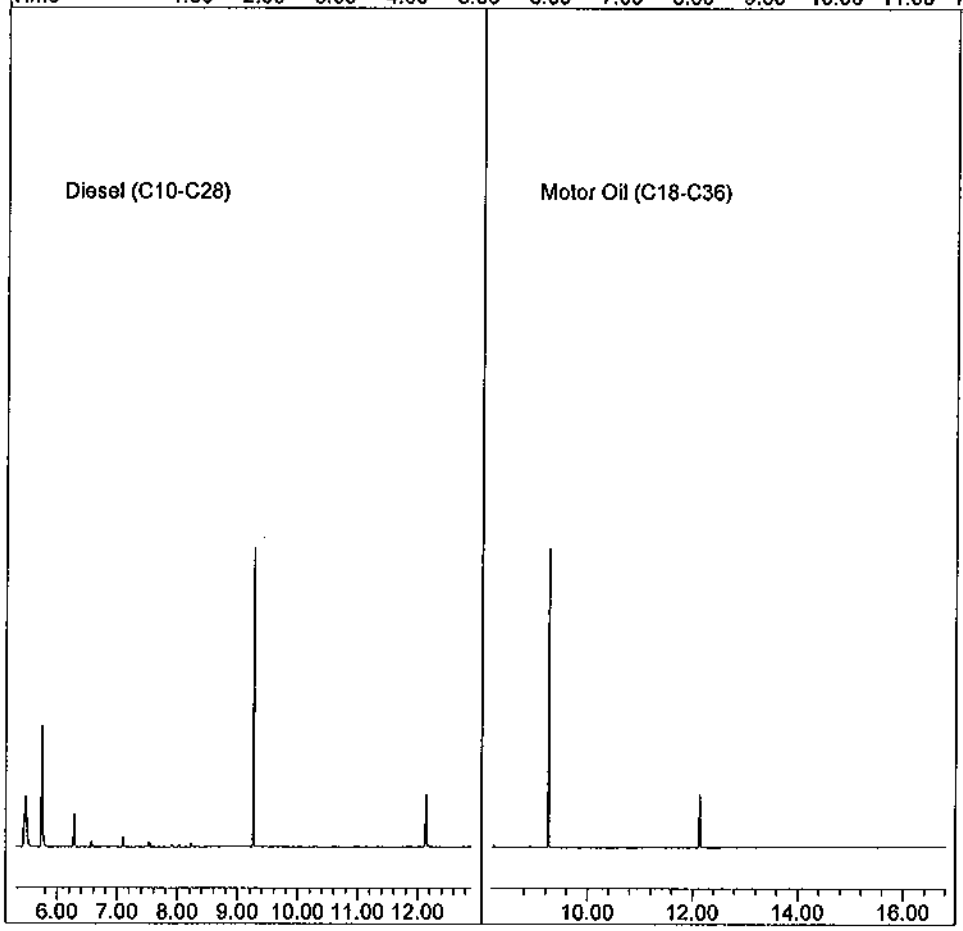
Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.26	12047284	119.160 ppb
Surrogate Spike 150.000		Recovery =	79.44%
6) SC Octacosane(S)	12.14	5164535	157.050 ppb
Surrogate Spike 150.000		Recovery =	104.70%
Target Compounds			

Data File: G:\APOLLO\DATA\120222\222006.D
Sample : 120221A BLK 5/1000





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\120222\222007.D Vial: 7
Acq On : 2-22-12 17:40:20 Operator: LAC
Sample : 120221A LCS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Feb 23 10:58 2012 Quant Results File: TPH0210.RES

Method : G:\APOLLO\DATA\120210\TPH0210.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Feb 13 08:45:13 2012
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)	9.26	16690582	165.087 ppb
Surrogate Spike 150.000		Recovery =	110.06%
6) SC Octacosane(S)	12.14	4048440	123.110 ppb
Surrogate Spike 150.000		Recovery =	82.07%
Target Compounds			
1) HATM Diesel (C10-C28)	9.10	118550472	1546.537 ppb
2) HBTM Motor Oil (C18-C36)	12.49	31342520	856.211 ppb

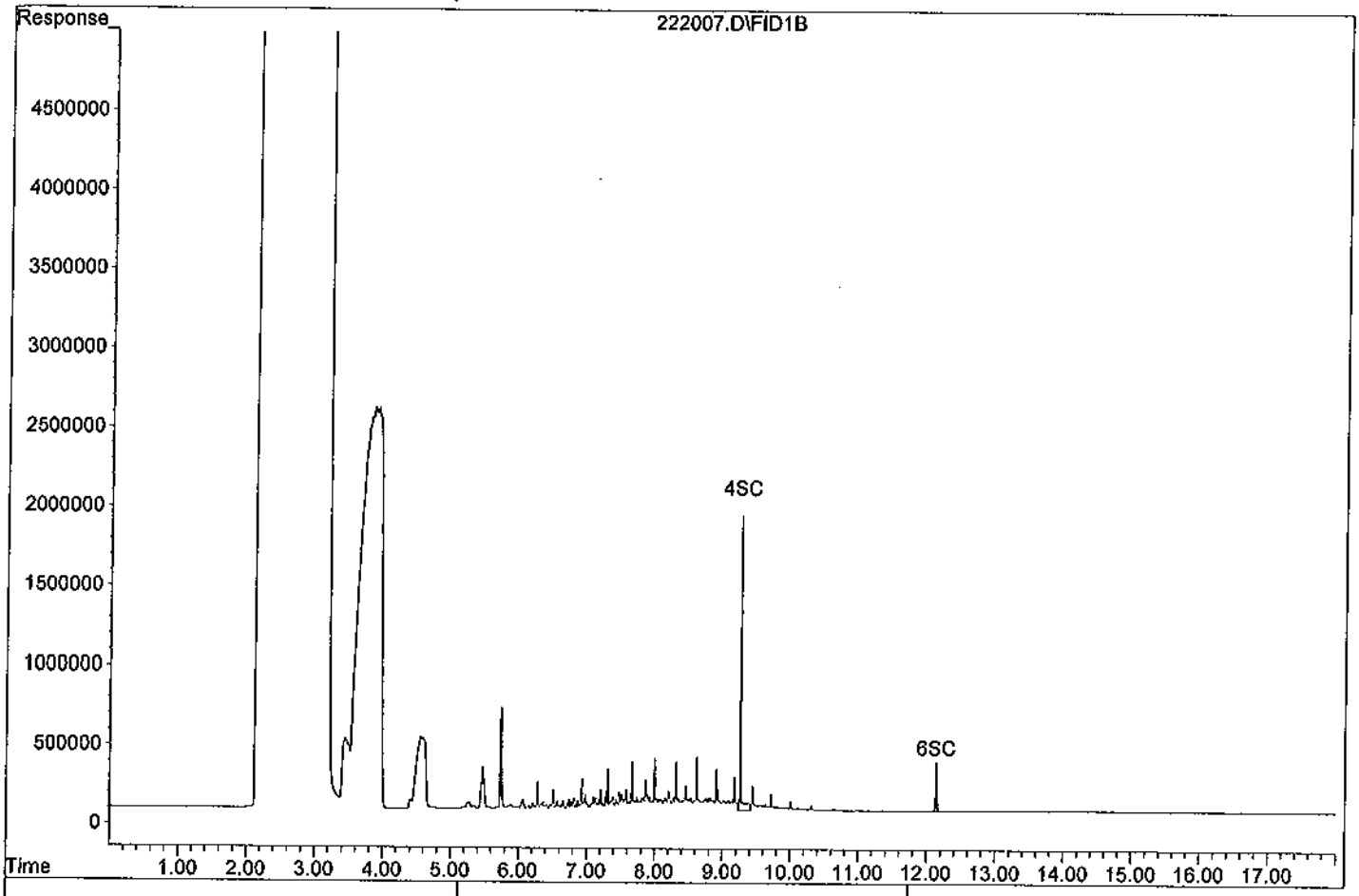
Algorithm Check: $\frac{(1669082)(5)}{(252755)(2)} = 165.086566$

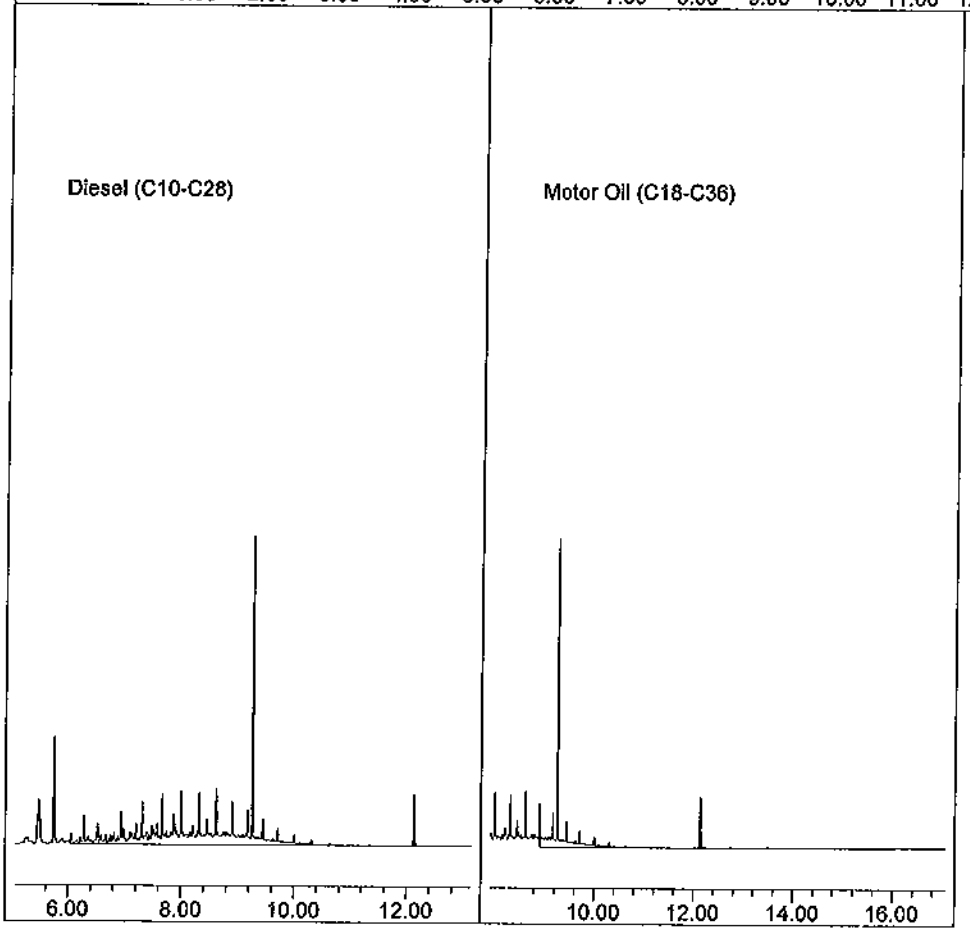
LAC 2/13/12

(f)=RT Delta > 1/2 Window (m)=manual int.
222007.D TPH0210.M Tue Mar 13 14:30:18 2012 Page 1

Quantitation Report

Data File: G:\APOLLO\DATA\120222\222007.D
Sample : 120221A LCS-1 5/1000

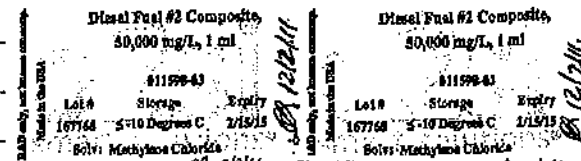




STANDARD 108	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS

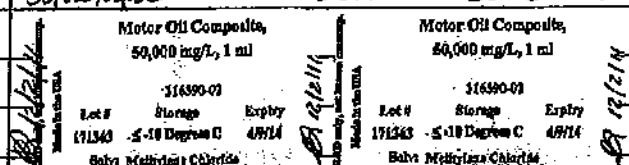
DIESEL SPIKE

DIESEL FUEL #2 | 5000ug/mL | O2SI | 2000uL | 50mL | 2000ug/mL | MC # 51204 | 12/2/11 EX: 3/2/12



MOTOR OIL SPIKE

MOTOR OIL | 5000ug/mL | O2SI | 2000mL | 50mL | 2000ug/mL | MC # 51204 | 12/2/11 EX: 3/2/12



OCL 3 (CCV)

See pg. 0141 | 10ug/mL | OCL STOCK | 250mL | 25mL | 0.100ug/mL | HEXANE # D107113 | 12/2/11 EX: 2/28/12

VARIOUS ANALYTES | PREP: 8/19/11 | EX: 2/23/12

TDX 3 (CCV)

TOXAPHENE | 100ug/mL | TDX STOCK | 125mL | 25mL | 0.50ug/mL | HEXANE # D107113 | 12/2/11 EX: 3/20/12

PREP: 9/20/11 | EX: 3/20/12

12/3/11

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
		10/26/11	04/26/12			51204

12/3/11 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
		10/26/11	04/26/12			51204

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

003

THC SURROGATE (* GIVEN TO EXTRACTIONS)

O-TERPHENYL OCTACOSANE	600ug/ml	O2SI CAT: 1110316-05 LOT: 176405-29679 OP: 12/28/11 EX: 12/28/12	N/A	25ML	600ug/ml	N/A	12/28/11 EX: ~~12/28/11~~ 12/28/11 12/28/12

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

12/28/11
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
		10/26/11	04/26/12			51204

DIESEL CAL STD.						
STD.	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT / LOT#
DIESEL FUEL #2	50,000 ug/mL	O2SI CAT#011598-03 LOT#179635-29648 OP:12/28/11 EXP:12/28/12	500µL	25mL	1000ug/mL	MC LOT# 110510F
O-TERPHENYL OCTACOSANE	600 ug/mL	O2SI CAT#1110316-05 LOT#176405-29679 OP:12/28/11EXP:12/28/12	2080µL		50ug/mL	

12/28/11
EX: 6/28/12

MOTOR OIL CAL STD						
STD.	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT / LOT#
MOTOR OIL	50,000 ug/mL	O2SI CAT#116390-02 LOT#171363-28618 OP:12/28/11 EXP:12/28/12	500 µL	25mL	1000ug/mL	MC LOT# 110510F

12/28/11
EX: 6/28/12

DIESEL 2ND SOURCE

DIESEL FUEL #2	50,000ug/ml	O2SI CAT: 011598-03 LOT: 167768-29405 OP: 12/28/11 EX: 12/28/12	500ml	25ML	1000ug/ml	MC #110510F	12/28/11 EX: 6/28/12

STANDARD 004

INITIAL CONC | SOURCE | DATE | FINAL CONC | LOT # | DATE/INITIALS

PREP DATE:	12/28/11					
OP 2ND SOURCE						
EXP:	04/27/12					
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL
	OP 2ND SRC	5		12/02/11	04/27/12	500
VWR	HEXANE		010711A			500
					Final VOL.	1000

12/28/11 EX: 4/27/12

PREP DATE:	12/28/11											
OPF CURVE												
EXP:	02/07/12			12/28/11		1A	1	2	3	4	5	6
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL
	OPF STD	6		~~12/02/11~~	02/07/12	3	10	50	300	500	700	1000
	Hexane		020711A	12/28/11		998	990	950	800	500	300	NA
					Final VOL.	1000	1000	1000	1000	1000	1000	1000

12/28/11 EX: 2/7/12

DIESEL SPIKE

DIESEL FUEL #2

50,000ng/µL O2SI 2000µL 50mL 2000ng/µL MC #110510F 12/28/11 EX: 3/28/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
#116396-03
Lot # Storage Expiry
179635 ≤-10 Degrees C 11/8/15
Soln: Methylene Chloride
Diesel Fuel #2 Composite OP: 12/28/11
Lot #: 179635 - 29647 EX: 12/28/12
Rec: 10/13/11 MFR exp. 11/08/15
12/28/11

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
#116396-03
Lot # Storage Expiry
179635 ≤-10 Degrees C 11/8/15
Soln: Methylene Chloride
Diesel Fuel #2 Composite OP: 12/28/11
Lot #: 179635 - 29648 EX: 12/28/12
Rec: 10/13/11 MFR exp. 11/08/15

MOTOR OIL SPIKE

MOTOR OIL

50,000ng/µL O2SI 3000µL 75mL 2000ng/µL MC #110510F 12/28/11 EX: 3/28/12

Motor Oil Composite, 50,000 mg/L, 1 ml
o2si
116390-02 Storage: ≤-10 Degrees C
Made in USA Lot No: 161898 Solvent: Methylene Chloride
Exp: 7/23/2013 OP: 12/28/11
Date Opene Motor oil composite EX: 12/28/12
Lot #: 161898 - 27589
Rec: 10/18/10 MFR exp. 07/23/13
12/28/11

Motor Oil Composite, 50,000 mg/L, 1 ml
o2si
116390-02 Storage: ≤-10 Degrees C
Made in USA Lot No: 161898 Solvent: Methylene Chloride
Exp: 7/23/2013 OP: 12/28/11
Date Opene Motor oil composite EX: 12/28/12
Lot #: 161898 - 27588
Rec: 10/18/10 MFR exp. 07/23/13

Motor Oil Composite, 50,000 mg/L, 1 ml
116390-02
Lot # Storage Expiry
171363 ≤-10 Degrees C 4/9/14
Soln: Methylene Chloride
Motor oil composite OP: 12/28/11
Lot #: 171363 - 28642 EX: 12/28/12
Rec: 4/20/11 MFR exp. 04/08/14
12/28/11

STANDARD 028

	INITIAL CONC	SOURCE	DATE	ALIQUOT	FINAL VOLUME	FINAL CNC	SOL'N LOT #	DATE / INITIALS

2/9/12

PREP:	02/09/12												
PAC ECO CURVE													
EXP:	02/25/12												
PE Lot#	ID#	(µg/mL)	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL
Lot: 177585	PAC ECO CAL STD	5		02/09/12	02/25/12	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 Lot# 178704				DATE	EXP. DATE							
Prep: 2/9/12	Exp: 03/11/12	5µg/ml	010711A	01/20/12	03/11/12	500/1000						

2/9/12 Ex: 2/25/12

2/9/12 Ex: 3/11/12

3/10/12

TCH SURROGATE CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50		11/15/11	05/15/12	50	100	400	600	800	1000
MC		51257			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

2/10/12 Ex: 5/15/12

DIESEL CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
DIESEL	1000		12/28/11	06/28/12	10	100	400	600	800	1000
MC		51257			990	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

2/10/12 Ex: 6/28/12

MOTOR OIL CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		12/28/11	06/28/12	50	100	400	600	800	1000
MC		51257			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:	12/28/11				51257
	Exp:	06/28/12				

2/10/12

OCL Degradation Check

DDT
DDD
DDE
ENDRIN
ENDRIN KETONE
ENDRIN ALDEHYDE

100ng/ml O2SI CAT: 130109-01 LOT: 176402-29311 OP: 8/11/11 EX: 8/11/12 — 25mL — 50mL — 0.5ng/ml — Hexane #010711A

2/13/12 Ex: 8/11/12

OCL STOCK

VARIOUS ANALYTES

100ng/ml O2SI CAT: 130015-09 LOT: 176673-29350 OP: 2/13/12 EX: 2/13/13 — 1000ml — 10mL — 10ng/ml — Hexane #010711A

2/13/12 Ex: 11/2/12

DECA
DBOP
TCMX

5000ng/ml O2SI CAT: 130070-01 LOT: 154164-29416 OP: 11/2/11 EX: 11/2/12 — 20ml — 10ng/ml

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	STD. EXP. LOT #	DATE / INITIALS

2/8/12

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
		12/28/11	06/28/12			51204

2/13/12
EX: 6/28/12

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
		12/28/11	06/28/12			51204

PCB Congener Surrogate

TCMX | 1000ng/ml | Absolute | 500ml | 50ml | 10ng/ml | Hexane | #0107211A | 2/13/12 EX: 5/13/12

Part: 70273
Lot: 050509-28199
OP: 2/13/12
EX: 2/13/13

PCB SOIL SPIKE

AR1260 | 1000ng/ml | O2S1 | 1250ml | 25ml | 50ng/ml | ACETONE | #08111113 | 2/14/12 EX: 5/14/12

AR1016

Aroclor 1016 + 1260 Solution, 1,000 mg/L, 1 ml
130011-03
Lot# 163759 Storage ≤Ambient Expiry 9/14/13
Solvent: Hexane
Aroclor 1016 + 1260
Lot #: 163759 - 29970
Rec: 11/10/11 MFR exp. 09/14/13

AND
LOT: 163759-29971
OP: 2/14/12
EX: 2/14/12

2/14/12

508 CALIBRATION CURVE

Compound	Conc. In Mix	Conc. Of Stock	Aliquot	stock source	Final Vol.	Solvent Lot#
alachlor	(1) 0.005/0.1	5/100ug/ml	10ul	508 stock	10 mL	Hexane
benfluralin	(2) 0.03/0.6	5/100ug/ml	60ul	prep: 1/30/12	10 mL	#010711A
captan	(3) 0.05/1.0	5/100ug/ml	250ul	Exp: 7/30/12	25 mL	
carbophenothion	(4) 0.1/2.0	5/100ug/ml	200ul		10 mL	
chlorothalonil	(5) 0.15/3.0	5/100ug/ml	300uf		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						

2/14/12
EX: 7/30/12

STANDARD 032

INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOL'N. LOT #	DATE / INITIALS

2/14/12

HERBICIDE CCV LVL 4

Conc.In Mix	STK SRC	CONC. OF STK	ALIQUOT	Final Vol.	SOLVENT
200 µg/mL	HERB STD	VARIOUS	200 µL	1mL	MTBE
	02/09/12				LOT#
	EXP: 8/9/12				50112

2/14/12 EX: 8/9/12

Technical Chlordane Standard

STANDARD	INIT CONC.	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC.	SOLVENT
Technical	100 ug/ml	Absolute	1000 µL	10 mL	10 µg/mL	Hexane
Chlordane	Part:	91824				Lot#
	Lot:	121008-29987				010711A
	open:	02/14/12				
	exp:	02/14/13				

2/14/12 EX: 8/14/12

Technical Chlordane Calibration Curve

STANDARD	INIT CONC.	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC.	SOLVENT
Technical	10 µg/ml	Tech. Chld Std	1A) 25 µL	10 mL	0.025 µg/mL	Hexane
Chlordane		Prep: 2/14/12	1) 50 µL	10 mL	0.05 µg/mL	Lot#
		Exp: 8/14/12	2) 100 µL	10 mL	0.10 µg/mL	010711A
			3) 250 µL	10 mL	0.25 µg/mL	
			4) 500 µL	10 mL	0.50 µg/mL	
			5) 760 µL	10 mL	0.76 µg/mL	

2/14/12

Technical Chlordane 2nd SOURCE Stock

STANDARD	INIT CONC.	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC.	SOLVENT
Technical	100 ug/ml	Absolute	1000 µL	10 mL	10 µg/mL	Hexane
Chlordane	Part:	91824				Lot#
	Lot:	080211-29984				010711A
	open:	02/14/12				
	exp:	02/14/13				

2/14/12 EX: 8/14/12

Technical Chlordane 2nd SOURCE

STANDARD	INIT CONC.	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC.	SOLVENT
Technical	10 ug/ml	O2SI	250 µL	10 mL	0.25 µg/mL	Hexane
Chlordane	Prep:	02/14/12				Lot#
	Exp:	08/14/12				010711A

DIESEL SPIKE

DIESEL FUEL #2	50,000	025 I	1000mL	25mL	2000ug/mL	MC #	2/14/12 EX: 5/14/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
Lot # 179635 Storage 5 ± 3 Degrees C Expiry 11/8/15
Spike Mixture Custom
Diesel Fuel #2 Composite OP: 2/14/12
Lot #: 179635 - 30227 EX: 2/14/13
Rec: 1/10/12 MFR exp. 11/08/15

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOL ENT LOT #	DATE / INITIALS

037

PREP:	02/22/12												
PAC ECO CURVE													
EXP:	03/25/12												
	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	
	PAC ECO CAL STD	5		01/20/12	02/25/12	2	10	50	200	500	700	1000	
	Lot # 177986					998	990	950	800	500	300	N/A	
	Hexane		010711B		Final VOL.	1000	1000	1000	1000	1000	1000	1000	

CAL 2/22/12 EXP 2/25/12

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
		12/28/11	06/28/12			51257

2/23/12 Exp 6/28/12

MOTOR OIL CCV 400UG/ML						
STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
MOTOR OIL STD	1000UG/ML	O2SI	600µL	1mL	600 µg/ml	MC
		12/28/11	06/28/12			51257

Gaddy Aguilera GA

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
		12/28/11	06/28/12			51257

HA 2/24/12 Exp 6/28/12

Kepone Std.

100 Ultra-Sci 100mL 10mL 1mg/mL Hexane HA

CAT: PP-440A Lot 51257 2/24/12

open: 1/10/12 HA 2/24/12 Ex 8/24/12

ex: 1/10/13

Lot: CE-3729A-2845

KEPONE CURVE											
PREP DATE:	02/24/12										
EXP:	08/24/12										
SUPPLIER	ID#	µg/mL	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
	Kepone	1		02/24/12	08/24/12	5	50	100	150	200	250
	HEXANE		51527			995	950	900	850	800	750
					Final VOL.	1000	1000	1000	1000	1000	1000

HA 2/24/12 Ex 8/24/12

_SBP011

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	120221A	Extraction Method	SBP011	Units	mL

Spiked ID 1	Diesel Spike 02/14/12 BX 05/14/12		Surrogate ID 1	THC Surrogate 176405-29680	
Spiked ID 2			Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	no	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	02/29/12 0:00	

pH1			Water Bath Temp Criteria	80 °C
pH2				
pH3				

Spiked By: DL **Date** 02/21/12 **Witnessed By:** GH **Date** 02/21/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	120221A Blk				0.250	1	1000	5	7	02/21/12 14:10	
						equip	E-WB5				
2	120221A LCS-1		1	1	0.250	1	1000	5	7	02/21/12 14:10	
						equip	E-WB5				
3	AY53567	AY53567W02			0.250	1	1000	5	7	02/21/12 14:10	66784-CHECK SAMPLE -- Other
						equip	E-WB5				
4	AY54765	AY54765W05			0.250	1	1000	5	7	02/21/12 14:10	66972-2 WEEK RUSH -- Amber Liter
						equip	E-WB5				

DRA 2/21/12

Solvent and Lot#	
MC	BMD51257
Na2SO4	2351C512

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	NA
Date	2/22/12
Time	14:00
Refrigerator	Hubert

	Technician's Initials
Scanned By	GH
Sample Preparation	GH
Extraction	GH
Concentration	IC

Modified	02/21/12 5:03:09 PM

Reviewed By: DRA 73 **Date** 02/21/12

Injection Log

Directory: G:\APOLLO\DATA\120210\120222

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	210004.D	1	DIESEL 10/1000 2/10/12	Mix(A)	2-10-12 15:49:00
2	5	210005.D	1	DIESEL 100/1000	Mix(A)	2-10-12 16:13:08
3	6	210006.D	1	DIESEL 400/1000	Mix(A)	2-10-12 16:37:20
4	7	210007.D	1	DIESEL 600/1000	Mix(A)	2-10-12 17:01:40
5	8	210008.D	1	DIESEL 800/1000	Mix(A)	2-10-12 17:25:59
6	9	210009.D	1	DIESEL 1000/1000	Mix(A)	2-10-12 17:50:15
7	10	210010.D	1	DIESEL 2ND SRC 400/1000 2/10/12	Mix(A)	2-10-12 18:14:27
8	18	210018.D	1	THC SURR 100/1000	Mix(C)	2-10-12 21:25:57
9	19	210019.D	1	THC SURR 400/1000	Mix(C)	2-10-12 21:49:45
10	20	210020.D	1	THC SURR 600/1000	Mix(C)	2-10-12 22:13:31
11	21	210021.D	1	THC SURR 800/1000	Mix(C)	2-10-12 22:37:15
12	22	210022.D	1	THC SURR 1000/1000	Mix(C)	2-10-12 23:00:58
13	3	222003.D	1	DIESEL 400/1000 2/20/12	Mix(A)	2-22-12 16:03:38
14	6	222006.D	5	120221A BLK 5/1000	Water	2-22-12 17:16:14
15	7	222007.D	5	120221A LCS-1 5/1000	Water	2-22-12 17:40:20
16	9	222009.D	5	AY54765W05 5/1000	Water	2-22-12 18:28:16
17	17	222017.D	1	DIESEL 400/1000 2/13/12	Mix(A)	2-22-12 21:38:36

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: **120222W-54765 - 164329**
Batch ID: #SIMHC-120222A

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	02/22/12	02/25/12
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	02/22/12	02/25/12
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	02/22/12	02/25/12
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	02/22/12	02/25/12
BLANK	SURROGATE: 2-FLUORBIPHENY	50.7	50-110			%	02/22/12	02/25/12
BLANK	SURROGATE: NITROBENZENE-	54.7	40-110			%	02/22/12	02/25/12
BLANK	SURROGATE: TERPHENYL-D14 (	62.8	50-135			%	02/22/12	02/25/12

Quant Method:SIMB.M
Run #:0225L012
Instrument:Linus
Sequence:L120225
Initials:LF

GC SC-Blank-REG MDLs
Printed: 02/29/12 11:49:06 AM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66972

Case No: 66972 Date Analyzed: 02/25/12

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-FLUORBIPHENYL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120222A-BLK	Blank	50-110	50.7		40-110	54.7	
120222A-LCS	Lab Control Spike	50-110	57.0		40-110	52.5	
AY54765	ES069	50-110	50.7		40-110	52.4	

Comments: Batch: #SIMHC-120222A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66972

Case No: 66972 Date Analyzed: 02/25/12

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: TERPHENYL-D14 (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
120222A-BLK	Blank	50-135	62.8				
120222A-LCS	Lab Control Spike	50-135	58.0				
AY54765	ES069	50-135	53.6				

Comments: Batch: #SIMHC-120222A

Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: **120222W-54765 LCS - 164329**
Batch ID: #SIMHC-120222A

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	2.40	60.0	45-105
2-METHYLNAPHTHALENE	4.00	2.32	58.0	45-105
ACENAPHTHENE	4.00	2.74	68.5	45-110
ACENAPHTHYLENE	4.00	2.63	65.8	50-105
ANTHRACENE	4.00	2.88	72.0	55-110
BENZO(A)ANTHRACENE	4.00	3.10	77.5	55-110
BENZO(A)PYRENE	4.00	3.16	79.0	55-110
BENZO(B)FLUORANTHENE	4.00	3.22	80.5	45-120
BENZO(GHI)PERYLENE	4.00	3.41	85.3	40-125
BENZO(K)FLUORANTHENE	4.00	3.39	84.8	45-125
CHRYSENE	4.00	3.37	84.3	55-110
DIBENZ(A,H)ANTHRACENE	4.00	3.36	84.0	40-125
FLUORANTHENE	4.00	3.35	83.8	55-115
FLUORENE	4.00	3.14	78.5	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.34	58.5	45-125
NAPHTHALENE	4.00	2.25	56.3	40-100
PHENANTHRENE	4.00	3.02	75.5	50-115
PYRENE	4.00	3.02	75.5	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.14	57.0	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.05	52.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.16	58.0	50-135

Comments: _____

Primary	SPK
Quant Method :	SIMB.M
Extraction Date :	02/22/12
Analysis Date :	02/25/12
Instrument :	Linus
Run :	0225L013
Initials :	LF

Printed: 02/29/12 11:49:13 AM

APPL Standard LCS

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66972

Case No: 66972 Date Analyzed: 02/25/12

Matrix: WATER Instrument: Linus

Blank ID: 120222A-BLK Time Analyzed: 1540

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120222A-BLK	Blank	0225L012	02/25/12 1540
120222A-LCS	Lab Control Spike	0225L013	02/25/12 1606
AY54765	ES069	0225L014	02/25/12 1631

Comments: Batch: #SIMHC-120222A

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 66972
Matrix: Water
ID: SVTUNE 10-27-11

SDG No: 66972
Date Analyzed: 02/25/12
Instrument: Linus
Time Analyzed: 10:43

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	120222A BLK 1/1000	0225L012.D	02/25/12 15:40
2	Lab Control Spike	120222A LCS-1 1/1000	0225L013.D	02/25/12 16:06
3	ES069	AY54765W07 1/980	0225L014.D	02/25/12 16:31
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	29.95 - 60% of mass 198	49.7
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.6
127	40 - 60% of mass 198	56.6
197	0 - 1% of mass 198	0.0
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	7.5
275	10 - 30% of mass 198	24.5
365	1 - 100% of mass 198	2.7
441	0.01 - 100% of mass 443	74.3
442	40 - 150% of mass 198	62.3
443	17 - 23% of mass 442	20.4

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66972

Lab File ID (Standard): 0225L007.D Date Analyzed: 02/25/12

Instrument ID: Linus Time Analyzed: 13:33

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	8851	6.13	4306	8.13	7030	9.86
	UPPER LIMIT	17702	6.63	8612	8.63	14060	10.36
	LOWER LIMIT	4426	5.63	2153	7.63	3515	9.36
	SAMPLE NO.						
01	120222A BLK 1/1000	10757	6.13	5207	8.13	8896	9.86
02	120222A LCS-1 1/1000	9594	6.13	4904	8.13	8719	9.86
03	AY54765W07 1/980	10520	6.13	5295	8.13	9117	9.86
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: SDG No.: 66972

Lab File ID (Standard): 0225L007.D Date Analyzed: 02/25/12

Instrument ID: Linus Time Analyzed: 13:33

GC Column: ID: Heated Purge: (Y/N)

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	9584	12.93	7717	14.54		
	UPPER LIMIT	19168	13.43	15434	15.04		
	LOWER LIMIT	4792	12.43	3859	14.04		
	SAMPLE NO.						
01	120222A BLK 1/1000	11001	12.92	7960	14.53		
02	120222A LCS-1 1/1000	11708	12.92	9093	14.53		
03	AY54765W07 1/980	11260	12.92	8370	14.54		
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Sample Data

APPL, INC.

EPA 8270D SIM

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen
Project: RED HILL/1022-015
Sample ID: ES069
Sample Collection Date: 02/14/12

ARF: 66972
APPL ID: AY54765
QCG: #SIMHC-120222A-164329

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	02/22/12	02/25/12
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
8270D-SIM	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	02/22/12	02/25/12
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	02/22/12	02/25/12
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	02/22/12	02/25/12
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	50.7	50-110			%	02/22/12	02/25/12
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	52.4	40-110			%	02/22/12	02/25/12
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	53.6	50-135			%	02/22/12	02/25/12

Quant Method: SIMB.M
Run #: 0225L014
Instrument: Linus
Sequence: L120225
Dilution Factor: 1
Initials: LF

Printed: 02/29/12 11:49:19 AM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L014.D Vial: 14
Acq On : 25 Feb 12 16:31 Operator: LF
Sample : AY54765W07 1/980 Inst : Linus
Misc : Multiplr: 1.02

Quant Time: Feb 27 8:24 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.13	136	10520	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.13	164	5295	2.50000 ppb	0.00
12) Phenanthrene-D10(IS)	9.86	188	9117	2.50000 ppb	0.00
16) Chrysene-D12(IS)	12.92	240	11260	2.50000 ppb	0.00
22) Perylene-D12(IS)	14.53	264	8370	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.33	82	736	1.06871 ppb	0.00
Spiked Amount 2.041			Recovery = 52.381%		
7) Surrogate Recovery (FBP)	7.37	172	3645	1.03447 ppb	0.00
Spiked Amount 2.041			Recovery = 50.666%		
18) Surrogate Recovery (TPH)	11.73	244	3737	1.09263 ppb	0.00
Spiked Amount 2.041			Recovery = 53.557%		

Target Compounds Qvalue

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

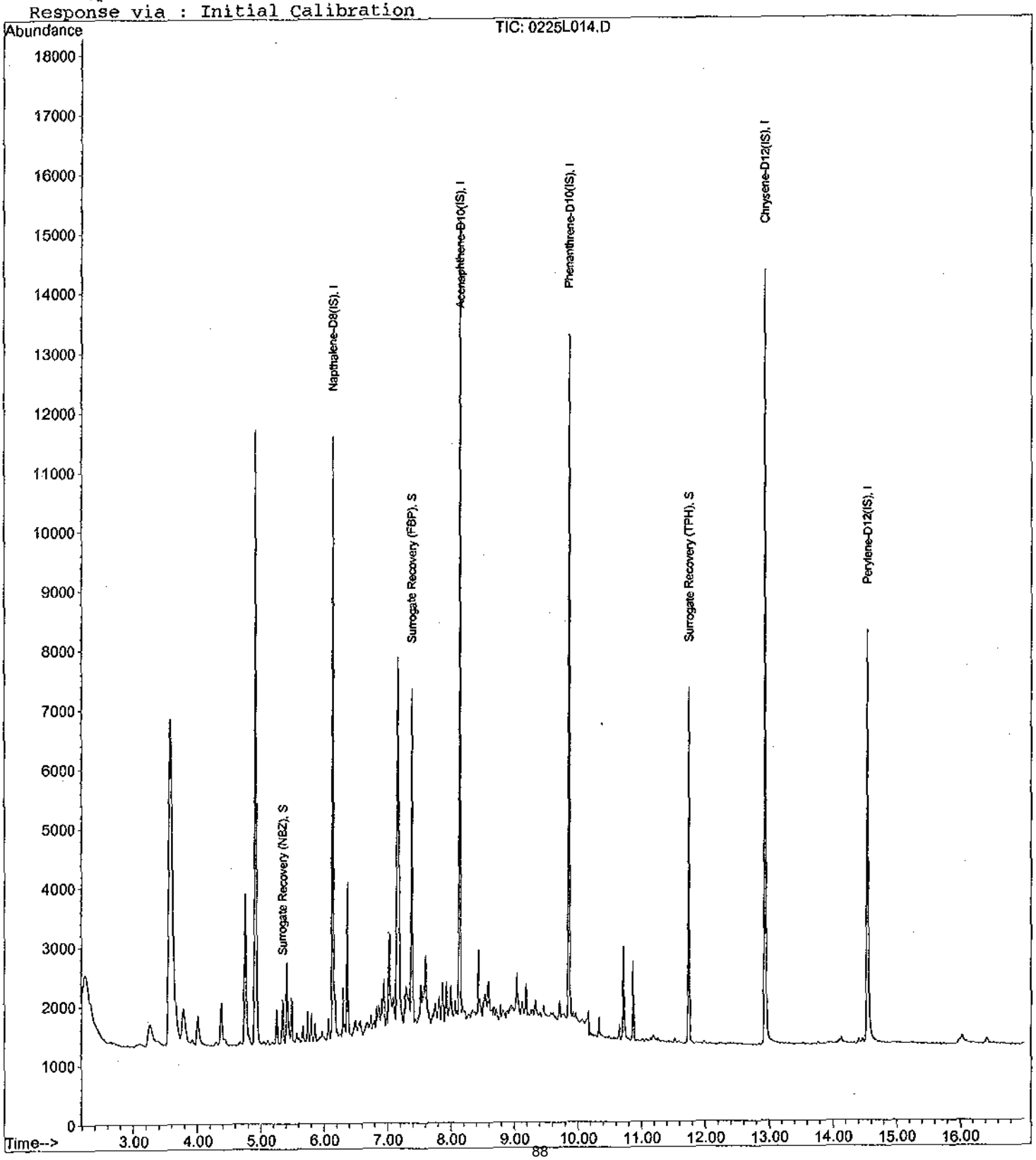
Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L014.D
Acq On : 25 Feb 12 16:31
Sample : AY54765W07 1/980
Misc :

Vial: 14
Operator: LF
Inst : Linus
Multiplr: 1.02

Quant Time: Feb 27 8:24 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Calibration Data

APPL, INC.

EPA 8270C SIM

Form 6
Initial Calibration

669 R

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 02/25/12
Matrix: Instrument: Linus Initials:

			0225L003.D	0225L004.D	0225L005.D	0225L006.D	0225L007.D	0225L008.D	0225L009.D	0225L010.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)		0.1960	0.1736	0.1656	0.1385	0.1328	0.1695	0.1931			0.17	15	S	
3	TM	Naphthalene	1.613	1.523	1.511	1.539	1.320	1.182					1.4	11	TM	
4	TM	2-Methylnaphthalene	0.9824	0.9542	0.9698	0.9768	0.8584	0.7861	0.6235				0.88	15	TM	
5	TM	1-Methylnaphthalene	0.9398	0.8771	0.8882	0.9253	0.8146	0.7442					0.86	8.5	TM	
6	I	Acenaphthene-D10(IS)														
7	S	Surrogate Recovery (FBP)	1.889	1.875	1.824	1.790	1.599	1.576	1.330				1.7	12	S	
8	TM	1,1'-Biphenyl	2.435	2.145	2.221	2.223	2.002	1.858					2.1	9.3	TM	
9	TM	Acenaphthylene	2.842	2.660	2.602	2.618	2.438	2.301	1.879				2.5	13	TM	
10	*TM	Acenaphthene	1.645	1.535	1.520	1.529	1.380	1.314	1.059				1.4	14	*TM	
11	TM	Fluorene	1.865	1.777	1.730	1.772	1.668	1.583	1.332				1.7	10	TM	
12	I	Phenanthrene-D10(IS)														
13	TM	Phenanthrene	1.586	1.620	1.612	1.595	1.466	1.383	1.082				1.5	13	TM	
14	TM	Anthracene	1.444	1.416	1.445	1.426	1.339	1.337	1.064	0.9376			1.3	15	TM	
15	*TM	Fluoranthene	2.077	1.922	1.963	1.908	1.869	1.818	1.524	1.359			1.8	13	*TM	
16	I	Chrysene-D12(IS)														
17	TM	Pyrene	1.663	1.656	1.588	1.479	1.415	1.284	1.157				1.5	13	TM	
18	S	Surrogate Recovery (TPH)	0.8694	0.8628	0.8576	0.8295	0.7820	0.7345	0.6607	0.6024			0.77	13	S	
19	TM	Benz (a) anthracene	1.365	1.266	1.263	1.217	1.132	1.054	0.9779	0.8906			1.1	14	TM	
20	TM	Chrysene	1.300	1.265	1.406	1.193	1.134	1.062	0.9360				1.2	13	TM	
21	*TM	Indeno (1,2,3-cd) pyrene	0.3741	0.3246	0.3180	0.3015	0.3303	0.3131	0.3604	0.3144			0.33	7.6	TM	
22	I	Perylene-D12(IS)														
23	TM	Benzo (b) fluoranthene	1.709	1.636	1.634	1.246	1.550	1.388	1.109				1.5	15	TM	
24	TM	Benzo (k) fluoranthene	1.209	1.163	1.245	1.570	1.268	1.247	1.169				1.3	11	TM	
25	*TM	Benzo (a) pyrene	1.336	1.199	1.251	1.297	1.282	1.249	1.084	0.9970			1.2	9.5	*TM	
26	TM	Dibenz (a,h) anthracene	0.8292	0.8769	0.9445	0.9192	1.012	1.004	0.9578	0.9054			0.93	6.7	TM	
27	TM	Benzo (g,h,i) perylene	1.119	1.102	1.114	1.088	1.151	1.127	1.037	0.9772			1.1	5.2	TM	
28																
29																
30																
31																
32																
33																
34																
35																

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L003.D Vial: 3
Acq On : 25 Feb 12 11:51 Operator: LF
Sample : 0.1ug/ml PAH 02-25-12 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:54 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 07:54:12 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.13	136	8805	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.13	164	4302	2.50000 ppb		0.00
12) Phenanthrene-D10(IS)	9.86	188	7187	2.50000 ppb		0.00
16) Chrysene-D12(IS)	12.92	240	9288	2.50000 ppb		0.00
22) Perylene-D12(IS)	14.54	264	7839	2.50000 ppb		0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.33	82	90	0.16808 ppb		0.00
Spiked Amount 2.000			Recovery =	8.400%		
7) Surrogate Recovery (FBP)	7.37	172	325	0.11144 ppb		0.00
Spiked Amount 2.000			Recovery =	5.550%		
18) Surrogate Recovery (TPH)	11.73	244	323	0.10790 ppb		0.00
Spiked Amount 2.000			Recovery =	5.400%		
Target Compounds						Qvalue
3) Naphthalene	6.15	128	568	0.11279 ppb		98
4) 2-Methylnaphthalene	6.94	142	346	0.10707 ppb		98
5) 1-Methylnaphthalene	7.05	142	331	0.10803 ppb		100
8) 1,1'-Biphenyl	7.48	154	419	0.11524 ppb		97
9) Acenaphthylene	7.96	152	489	0.11242 ppb		99
10) Acenaphthene	8.17	154	283	0.11307 ppb		99
11) Fluorene	8.77	166	321	0.10844 ppb		99
13) Phenanthrene	9.88	178	456	0.10362 ppb		99
14) Anthracene	9.94	178	415	0.10445 ppb		99
15) Fluoranthene	11.26	202	597	0.10997 ppb		98
17) Pyrene	11.51	202	618	0.11495 ppb		99
19) Benz (a) anthracene	12.91	228	507	0.11617 ppb		97
20) Chrysene	12.96	228	483	0.11176 ppb		98
21) Indeno (1,2,3-cd) pyrene	15.98	276	139	0.11843 ppb	#	100
23) Benzo (b) fluoranthene	14.09	252	536	0.12228 ppb		95
24) Benzo (k) fluoranthene	14.13	252	379	0.08517 ppb		95
25) Benzo (a) pyrene	14.47	252	419	0.10365 ppb		96
26) Dibenz (a,h) anthracene	16.03	278	260	0.08587 ppb		91
27) Benzo (g,h,i) perylene	16.41	276	351	0.10000 ppb		96

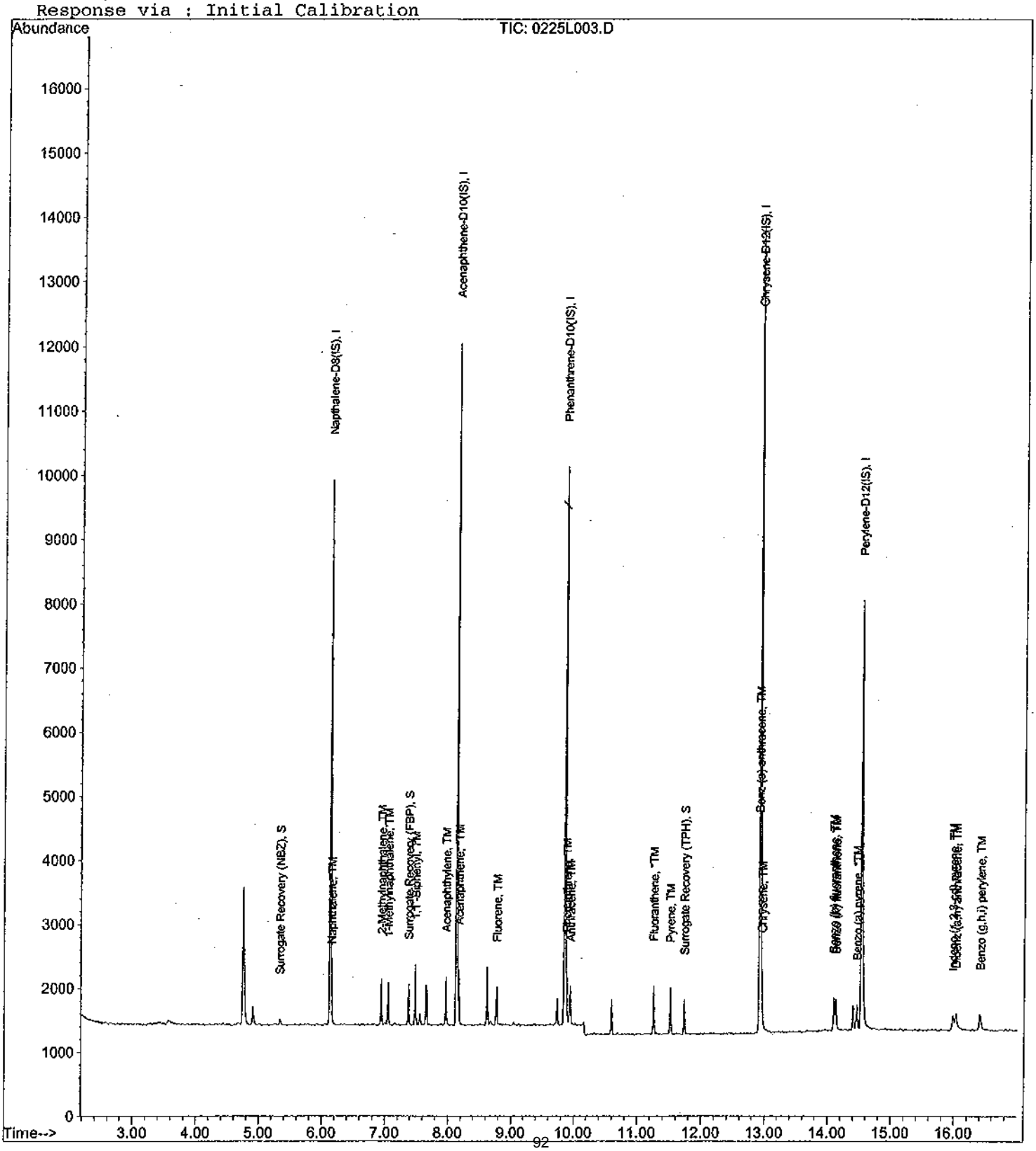
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L003.D Vial: 3
Acq On : 25 Feb 12 11:51 Operator: LF
Sample : 0.1ug/ml PAH 02-25-12 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:54 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L004.D Vial: 4
Acq On : 25 Feb 12 12:16 Operator: LF
Sample : 0.2ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 07:54:12 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.13	136	9249	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.13	164	4446	2.50000 ppb	0.00
12) Phenanthrene-D10(IS)	9.86	188	7276	2.50000 ppb	0.00
16) Chrysene-D12(IS)	12.93	240	9359	2.50000 ppb	0.00
22) Perylene-D12(IS)	14.54	264	7869	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.33	82	145	0.25780 ppb	0.00
Spiked Amount 2.000			Recovery	= 12.900%	
7) Surrogate Recovery (FBP)	7.37	172	667	0.22131 ppb	0.00
Spiked Amount 2.000			Recovery	= 11.050%	
18) Surrogate Recovery (TPH)	11.73	244	646	0.21416 ppb	0.00
Spiked Amount 2.000			Recovery	= 10.700%	
Target Compounds					Qvalue
3) Naphthalene	6.15	128	1127	0.21305 ppb	98
4) 2-Methylnaphthalene	6.94	142	706	0.20798 ppb	100
5) 1-Methylnaphthalene	7.05	142	649	0.20165 ppb	94
8) 1,1'-Biphenyl	7.48	154	763	0.20306 ppb	96
9) Acenaphthylene	7.96	152	946	0.21044 ppb	99
10) Acenaphthene	8.17	154	546	0.21108 ppb	98
11) Fluorene	8.77	166	632	0.20659 ppb	99
13) Phenanthrene	9.88	178	943	0.21167 ppb	98
14) Anthracene	9.94	178	824	0.20485 ppb	97
15) Fluoranthene	11.26	202	1119	0.20361 ppb	96
17) Pyrene	11.51	202	1240	0.22890 ppb	95
19) Benz (a) anthracene	12.91	228	948	0.21557 ppb	98
20) Chrysene	12.96	228	947	0.21746 ppb	97
21) Indeno (1,2,3-cd) pyrene	15.98	276	243	0.20546 ppb #	95
23) Benzo (b) fluoranthene	14.09	252	1030	0.23408 ppb	100
24) Benzo (k) fluoranthene	14.13	252	732	0.16387 ppb	98
25) Benzo (a) pyrene	14.47	252	755	0.18605 ppb	100
26) Dibenz (a,h) anthracene	16.03	278	552	0.18162 ppb	95
27) Benzo (g,h,i) perylene	16.41	276	694	0.19696 ppb	98

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

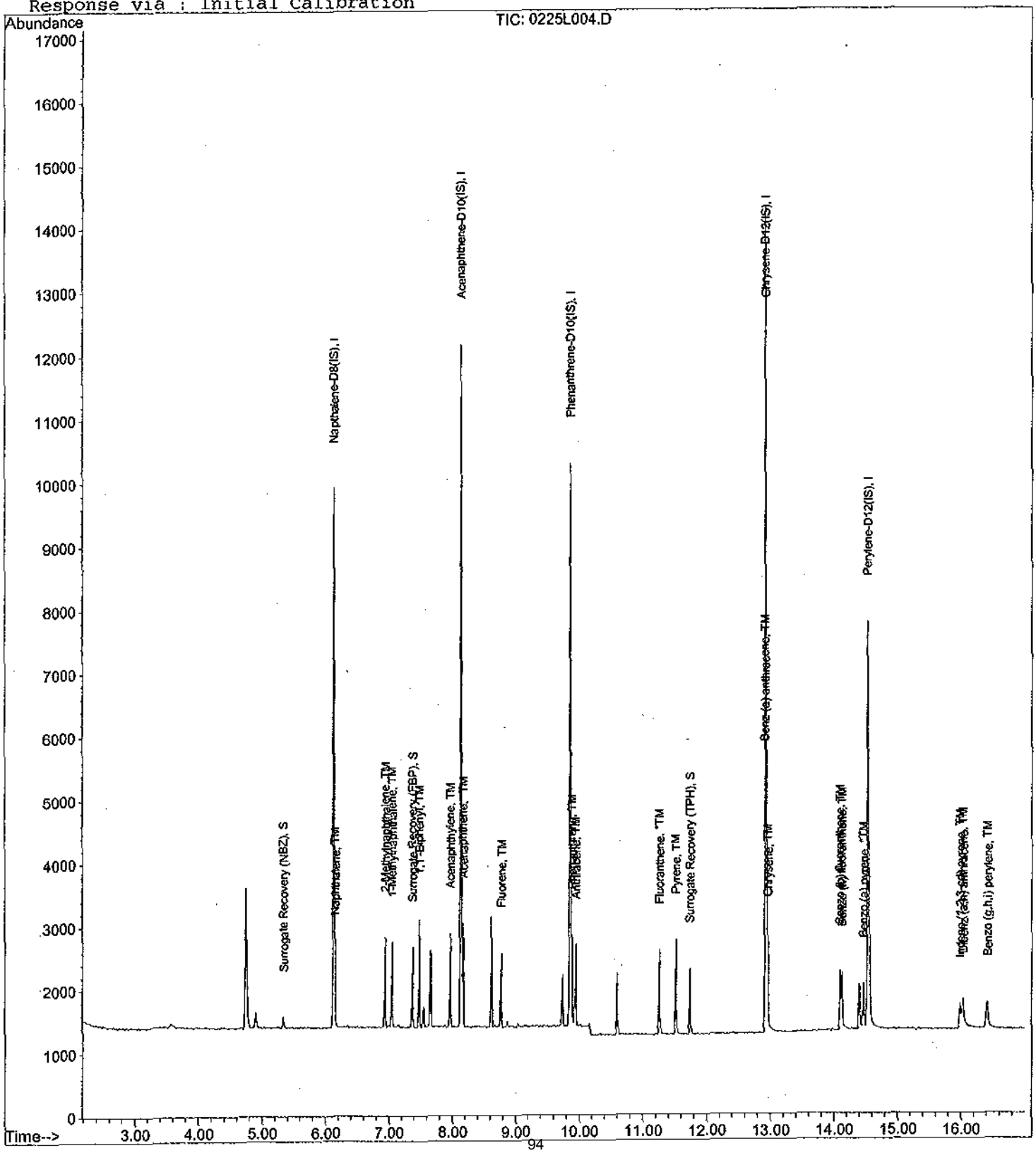
Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L004.D
Acq On : 25 Feb 12 12:16
Sample : 0.2ug/ml PAH
Misc :

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

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L005.D Vial: 5
Acq On : 25 Feb 12 12:42 Operator: LF
Sample : 0.5ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 07:54:12 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.13	136	8641	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.13	164	4307	2.50000 ppb		0.00
12) Phenanthrene-D10(IS)	9.86	188	7105	2.50000 ppb		0.00
16) Chrysene-D12(IS)	12.92	240	8961	2.50000 ppb		0.00
22) Perylene-D12(IS)	14.53	264	7480	2.50000 ppb		0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.33	82	300	0.57091 ppb		0.00
Spiked Amount 2.000			Recovery	= 28.550%		
7) Surrogate Recovery (FBP)	7.37	172	1571	0.53807 ppb		0.00
Spiked Amount 2.000			Recovery	= 26.900%		
18) Surrogate Recovery (TPH)	11.73	244	1537	0.53217 ppb		0.00
Spiked Amount 2.000			Recovery	= 26.600%		
Target Compounds						Qvalue
3) Naphthalene	6.15	128	2611	0.52833 ppb		99
4) 2-Methylnaphthalene	6.94	142	1676	0.52846 ppb		100
5) 1-Methylnaphthalene	7.05	142	1535	0.51050 ppb		97
8) 1,1'-Biphenyl	7.48	154	1913	0.52555 ppb		99
9) Acenaphthylene	7.96	152	2241	0.51460 ppb		98
10) Acenaphthene	8.17	154	1309	0.52237 ppb		99
11) Fluorene	8.77	166	1490	0.50276 ppb		95
13) Phenanthrene	9.88	178	2291	0.52663 ppb		99
14) Anthracene	9.94	178	2054	0.52293 ppb		99
15) Fluoranthene	11.26	202	2790	0.51988 ppb		98
17) Pyrene	11.51	202	2846	0.54870 ppb		98
19) Benz (a) anthracene	12.91	228	2264	0.53769 ppb		99
20) Chrysene	12.96	228	2520	0.60437 ppb		99
21) Indeno (1,2,3-cd) pyrene	15.98	276	570	0.50336 ppb	#	99
23) Benzo (b) fluoranthene	14.09	252	2444	0.58432 ppb		99
24) Benzo (k) fluoranthene	14.13	252	1862	0.43853 ppb		100
25) Benzo (a) pyrene	14.46	252	1871	0.48504 ppb		99
26) Dibenz (a,h) anthracene	16.03	278	1413	0.48908 ppb		96
27) Benzo (g,h,i) perylene	16.41	276	1667	0.49770 ppb		97

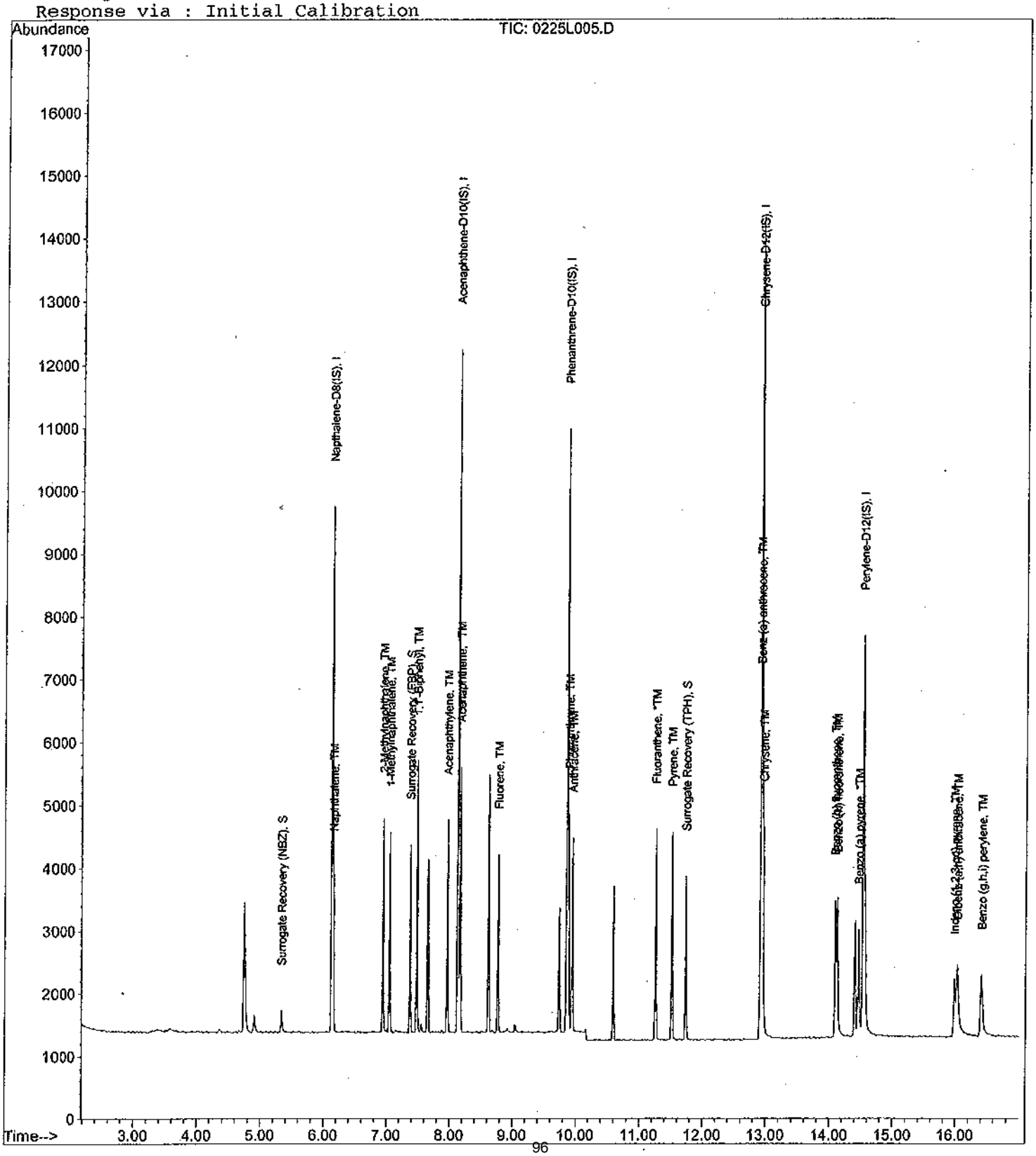
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L005.D Vial: 5
Acq On : 25 Feb 12 12:42 Operator: LF
Sample : 0.5ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L006.D Vial: 6
Acq On : 25 Feb 12 13:07 Operator: LF
Sample : 1.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 07:54:12 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.13	136	8303	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.13	164	4254	2.50000 ppb		0.00
12) Phenanthrene-D10(IS)	9.86	188	7132	2.50000 ppb		0.00
16) Chrysene-D12(IS)	12.92	240	9295	2.50000 ppb		0.00
22) Perylene-D12(IS)	14.54	264	7626	2.50000 ppb		0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.33	82	550	1.08927 ppb		0.00
Spiked Amount 2.000			Recovery	= 54.450%		
7) Surrogate Recovery (FBP)	7.37	172	3046	1.05626 ppb		0.00
Spiked Amount 2.000			Recovery	= 52.800%		
18) Surrogate Recovery (TPH)	11.73	244	3084	1.02944 ppb		0.00
Spiked Amount 2.000			Recovery	= 51.450%		
Target Compounds						Qvalue
3) Naphthalene	6.15	128	5112	1.07651 ppb		100
4) 2-Methylnaphthalene	6.94	142	3244	1.06451 ppb		99
5) 1-Methylnaphthalene	7.05	142	3073	1.06361 ppb		99
8) 1,1'-Biphenyl	7.48	154	3783	1.05224 ppb		99
9) Acenaphthylene	7.96	152	4454	1.03551 ppb		100
10) Acenaphthene	8.17	154	2602	1.05129 ppb		98
11) Fluorene	8.77	166	3016	1.03035 ppb		99
13) Phenanthrene	9.88	178	4551	1.04218 ppb		99
14) Anthracene	9.94	178	4067	1.03150 ppb		99
15) Fluoranthene	11.26	202	5442	1.01020 ppb		97
17) Pyrene	11.51	202	5498	1.02192 ppb		100
19) Benz (a) anthracene	12.91	228	4526	1.03628 ppb		99
20) Chrysene	12.95	228	4434	1.02519 ppb	#	91
21) Indeno (1,2,3-cd) pyrene	15.98	276	1121	0.95436 ppb	#	96
23) Benzo (b) fluoranthene	14.09	252	3800	0.89112 ppb		97
24) Benzo (k) fluoranthene	14.13	252	4790	1.10651 ppb		99
25) Benzo (a) pyrene	14.47	252	3956	1.00593 ppb		98
26) Dibenz (a,h) anthracene	16.03	278	2804	0.95197 ppb		96
27) Benzo (g,h,i) perylene	16.41	276	3319	0.97196 ppb		99

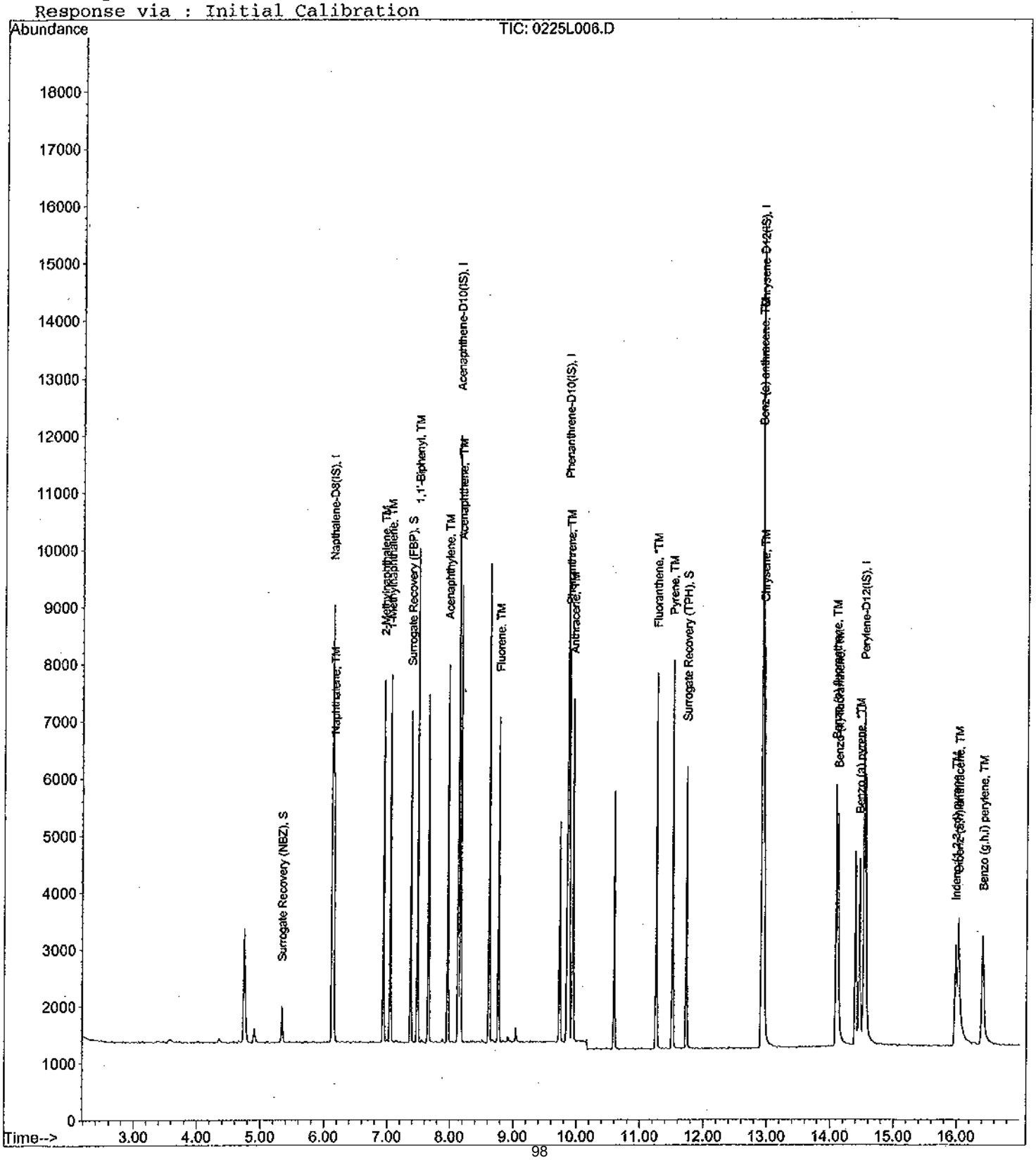
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L006.D Vial: 6
Acq On : 25 Feb 12 13:07 Operator: LF
Sample : 1.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L007.D Vial: 7
Acq On : 25 Feb 12 13:33 Operator: LF
Sample : 5.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 07:54:12 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.13	136	8851	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.13	164	4306	2.50000 ppb	0.00
12) Phenanthrene-D10(IS)	9.86	188	7030	2.50000 ppb	0.00
16) Chrysene-D12(IS)	12.93	240	9584	2.50000 ppb	0.00
22) Perylene-D12(IS)	14.54	264	7717	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.33	82	2451	4.55365 ppb	0.00
Spiked Amount 2.000			Recovery	= 227.700%	
7) Surrogate Recovery (FBP)	7.37	172	13774	4.71871 ppb	0.00
Spiked Amount 2.000			Recovery	= 235.950%	
18) Surrogate Recovery (TPH)	11.73	244	14990	4.85279 ppb	0.00
Spiked Amount 2.000			Recovery	= 242.650%	
Target Compounds					Qvalue
3) Naphthalene	6.15	128	23374	4.61745 ppb	100
4) 2-Methylnaphthalene	6.94	142	15195	4.67747 ppb	100
5) 1-Methylnaphthalene	7.05	142	14420	4.68196 ppb	100
8) 1,1'-Biphenyl	7.48	154	17245	4.73878 ppb	100
9) Acenaphthylene	7.96	152	20996	4.82243 ppb	100
10) Acenaphthene	8.17	154	11884	4.74354 ppb	100
11) Fluorene	8.77	166	14365	4.84824 ppb	100
13) Phenanthrene	9.88	178	20614	4.78910 ppb	100
14) Anthracene	9.94	178	18820	4.84251 ppb	100
15) Fluoranthene	11.26	202	26279	4.94898 ppb	100
17) Pyrene	11.51	202	27129	4.89042 ppb	100
19) Benz (a) anthracene	12.91	228	21700	4.81862 ppb	100
20) Chrysene	12.96	228	21736	4.87406 ppb	100
21) Indeno (1,2,3-cd) pyrene	15.98	276	6332	5.22819 ppb #	100
23) Benzo (b) fluoranthene	14.09	252	23925	5.54439 ppb	100
24) Benzo (k) fluoranthene	14.13	252	19570	4.46745 ppb	100
25) Benzo (a) pyrene	14.47	252	19780	4.97034 ppb	100
26) Dibenz (a,h) anthracene	16.03	278	15619	5.24017 ppb	100
27) Benzo (g,h,i) perylene	16.41	276	17762	5.14021 ppb	100

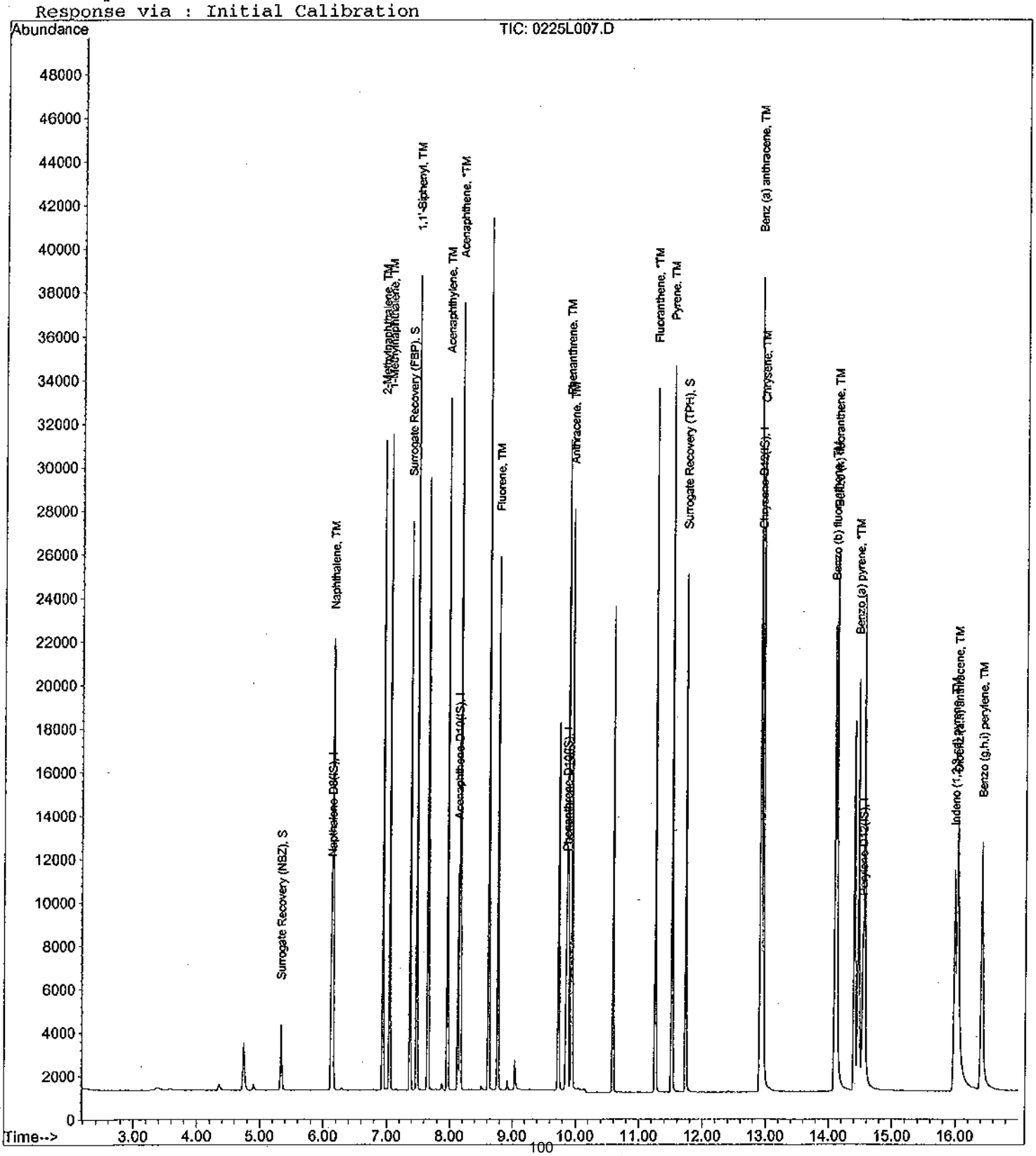
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L007.D Vial: 7
Acq On : 25 Feb 12 13:33 Operator: LF
Sample : 5.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L008.D Vial: 8
Acq On : 25 Feb 12 13:58 Operator: LF
Sample : 10ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 07:54:12 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.13	136	9273	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.13	164	4416	2.50000 ppb	0.00
12) Phenanthrene-D10(IS)	9.86	188	7122	2.50000 ppb	0.00
16) Chrysene-D12(IS)	12.92	240	10142	2.50000 ppb	0.00
22) Perylene-D12(IS)	14.53	264	8263	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.33	82	4926	8.73539 ppb	0.00
Spiked Amount 2.000			Recovery	= 436.750%	
7) Surrogate Recovery (FBP)	7.37	172	27831	9.29688 ppb	0.00
Spiked Amount 2.000			Recovery	= 464.850%	
18) Surrogate Recovery (TPH)	11.73	244	29797	9.11561 ppb	0.00
Spiked Amount 2.000			Recovery	= 455.800%	
Target Compounds					Qvalue
3) Naphthalene	6.15	128	43852	8.26858 ppb	100
4) 2-Methylnaphthalene	6.94	142	29159	8.56751 ppb	100
5) 1-Methylnaphthalene	7.05	142	27605	8.55504 ppb	100
8) 1,1'-Biphenyl	7.48	154	32824	8.79508 ppb	99
9) Acenaphthylene	7.96	152	40642	9.10226 ppb	99
10) Acenaphthene	8.17	154	23208	9.03280 ppb	99
11) Fluorene	8.77	166	27959	9.20120 ppb	99
13) Phenanthrene	9.88	178	39398	9.03482 ppb	100
14) Anthracene	9.94	178	38090	9.67420 ppb	100
15) Fluoranthene	11.26	202	51795	9.62826 ppb	97
17) Pyrene	11.51	202	52102	8.87545 ppb	96
19) Benz (a) anthracene	12.91	228	42753	8.97125 ppb	99
20) Chrysene	12.96	228	43089	9.13062 ppb	99
21) Indeno (1,2,3-cd) pyrene	15.99	276	12702	9.91073 ppb	90
23) Benzo (b) fluoranthene	14.09	252	45861	9.92558 ppb	98
24) Benzo (k) fluoranthene	14.13	252	41201	8.78389 ppb	98
25) Benzo (a) pyrene	14.46	252	41287	9.68912 ppb	99
26) Dibenz (a,h) anthracene	16.04	278	33200	10.40257 ppb	94
27) Benzo (g,h,i) perylene	16.41	276	37245	10.06625 ppb	98

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

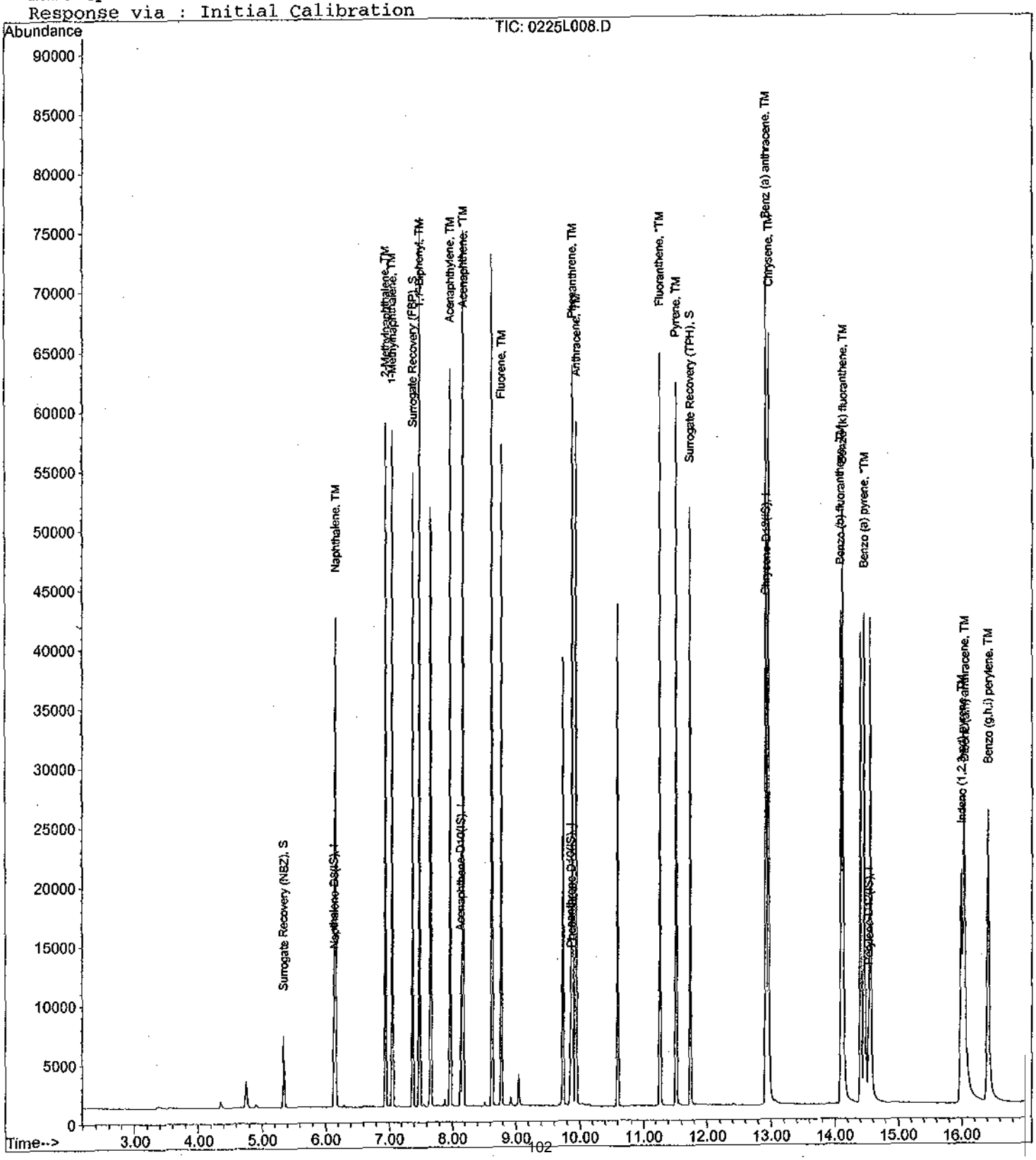
Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L008.D
Acq On : 25 Feb 12 13:58
Sample : 10ug/ml PAH
Misc :

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

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L009.D Vial: 9
Acq On : 25 Feb 12 14:24 Operator: LF
Sample : 50ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 07:54:12 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	6.13	136	9529	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	8.13	164	4350	2.50000	ppb		0.00
12) Phenanthrene-D10(IS)	9.86	188	7094	2.50000	ppb		0.00
16) Chrysene-D12(IS)	12.94	240	9765	2.50000	ppb		0.01
22) Perylene-D12(IS)	14.54	264	8541	2.50000	ppb		0.00
System Monitoring Compounds							
2) Surrogate Recovery (NBZ)	5.33	82	32300	55.73955	ppb		0.00
Spiked Amount 2.000			Recovery = 2787.000%				
7) Surrogate Recovery (FBP)	7.37	172	115733	39.24690	ppb		0.00
Spiked Amount 2.000			Recovery = 1962.350%				
18) Surrogate Recovery (TPH)	11.73	244	129032	40.99793	ppb		0.00
Spiked Amount 2.000			Recovery = 2049.900%				
Target Compounds							Qvalue
3) Naphthalene	6.15	128	182992	33.57737	ppb		99
4) 2-Methylnaphthalene	6.94	142	118823	33.97470	ppb		99
5) 1-Methylnaphthalene	7.05	142	109302	32.96364	ppb		99
8) 1,1'-Biphenyl	7.48	154	126497	34.40872	ppb	#	96
9) Acenaphthylene	7.96	152	163485	37.16995	ppb		98
10) Acenaphthene	8.17	154	92150	36.40993	ppb		97
11) Fluorene	8.77	166	115904	38.72231	ppb		97
13) Phenanthrene	9.88	178	153550	35.35133	ppb		98
14) Anthracene	9.94	178	150994	38.50121	ppb		98
15) Fluoranthene	11.26	202	216292	40.36559	ppb	#	87
17) Pyrene	11.52	202	225907	39.96842	ppb	#	83
19) Benz (a) anthracene	12.92	228	190983	41.62291	ppb		97
20) Chrysene	12.96	228	182808	40.23283	ppb	#	95
21) Indeno (1,2,3-cd) pyrene	16.01	276	70393	57.04457	ppb		91
23) Benzo (b) fluoranthene	14.10	252	189514	39.68103	ppb	#	94
24) Benzo (k) fluoranthene	14.14	252	199767	41.20330	ppb		96
25) Benzo (a) pyrene	14.48	252	185143	42.03464	ppb		97
26) Dibenz (a,h) anthracene	16.05	278	163614	49.59663	ppb	#	93
27) Benzo (g,h,i) perylene	16.44	276	177086	46.30339	ppb		97

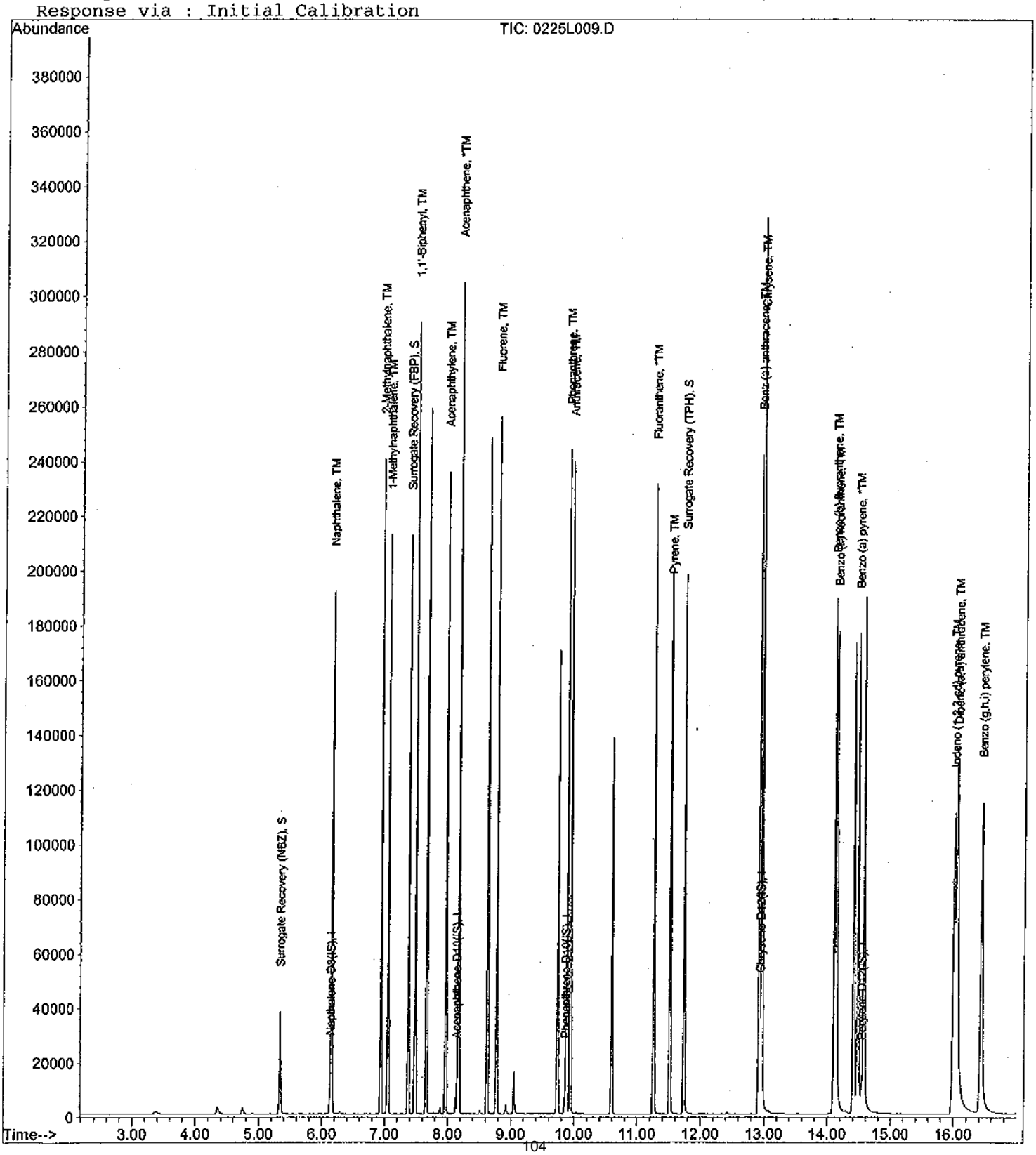
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L009.D Vial: 9
Acq On : 25 Feb 12 14:24 Operator: LF
Sample : 50ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L010.D Vial: 10
Acq On : 25 Feb 12 14:49 Operator: LF
Sample : 100ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 07:54:12 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.13	136	9396	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.13	164	4329	2.50000 ppb		0.00
12) Phenanthrene-D10(IS)	9.86	188	7256	2.50000 ppb		0.00
16) Chrysene-D12(IS)	12.94	240	9976	2.50000 ppb		0.01
22) Perylene-D12(IS)	14.55	264	8659	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.33	82	72573	127.01070 ppb		0.00
Spiked Amount 2.000			Recovery	= 6350.550%		
7) Surrogate Recovery (FBP)	7.37	172	206112	70.23492 ppb		0.00
Spiked Amount 2.000			Recovery	= 3511.750%		
18) Surrogate Recovery (TPH)	11.75	244	240393	74.76566 ppb		0.01
Spiked Amount 2.000			Recovery	= 3738.300%		
Target Compounds						Qvalue
3) Naphthalene	6.15	128	321286	59.78754 ppb		98
4) 2-Methylnaphthalene	6.94	142	201510	58.43271 ppb		98
5) 1-Methylnaphthalene	7.05	142	189741	58.03267 ppb		98
8) 1,1'-Biphenyl	7.48	154	213849	58.45170 ppb	#	92
9) Acenaphthylene	7.96	152	292965	66.93164 ppb		97
10) Acenaphthene	8.17	154	164277	65.22332 ppb		96
11) Fluorene	8.77	166	196033	65.81028 ppb		94
13) Phenanthrene	9.88	178	275056	61.91145 ppb		97
14) Anthracene	9.94	178	272129	67.83962 ppb		97
15) Fluoranthene	11.27	202	394561	71.99112 ppb	#	94
17) Pyrene	11.52	202	399423	69.17293 ppb		96
19) Benz (a) anthracene	12.92	228	355369	75.81116 ppb		97
20) Chrysene	12.97	228	323880	69.77267 ppb		98
21) Indeno (1,2,3-cd) pyrene	16.02	276	125474	99.53009 ppb		100
23) Benzo (b) fluoranthene	14.10	252	390296	80.60773 ppb		96
24) Benzo (k) fluoranthene	14.14	252	276630	56.27928 ppb	#	93
25) Benzo (a) pyrene	14.49	252	345338	77.33665 ppb	#	95
26) Dibenz (a,h) anthracene	16.06	278	313585	93.76224 ppb		96
27) Benzo (g,h,i) perylene	16.45	276	338457	87.29172 ppb	#	91

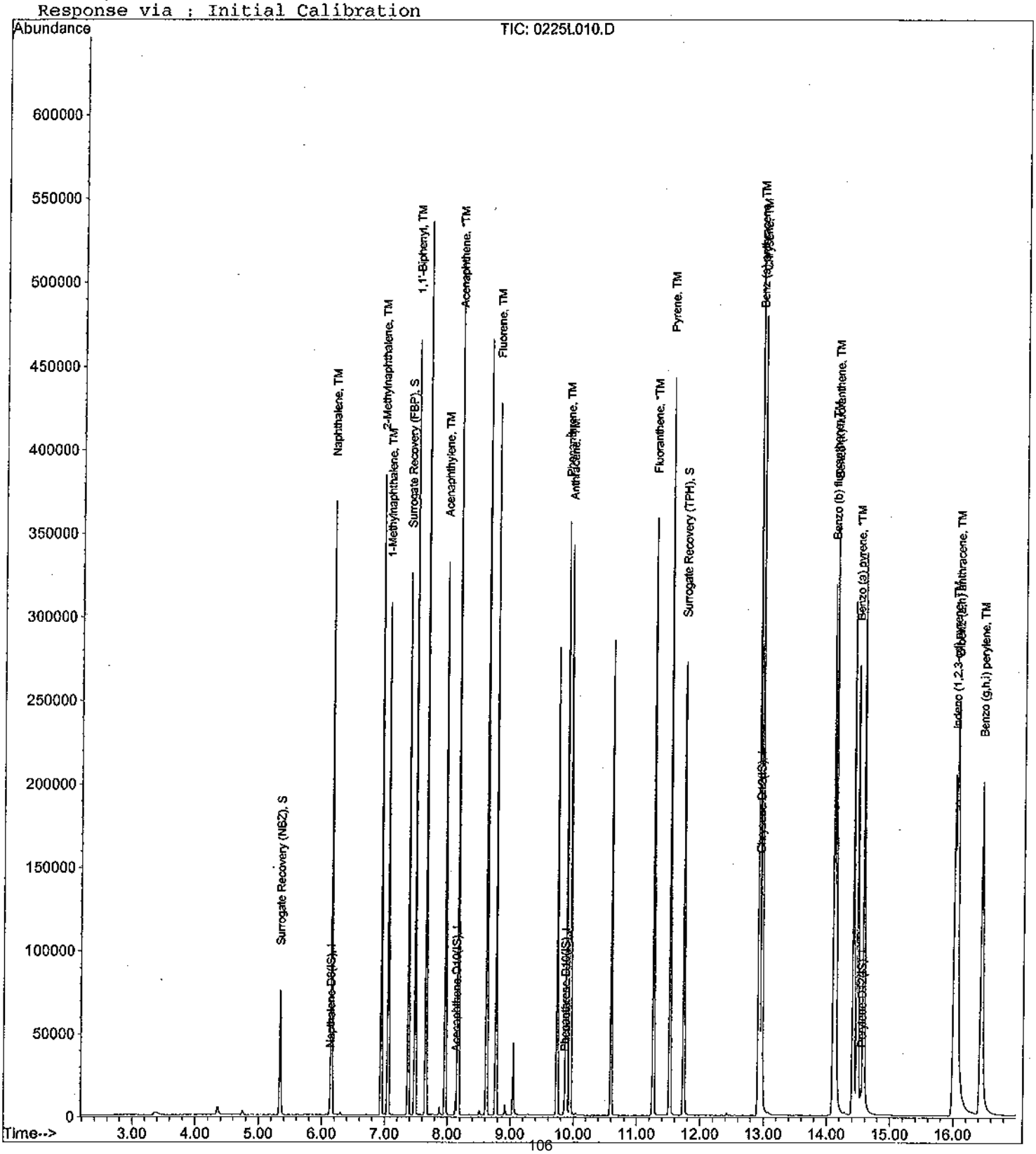
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L010.D Vial: 10
Acq On : 25 Feb 12 14:49 Operator: LF
Sample : 100ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 7:55 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



Form 7

Second Source Calibration

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

SDG No: 66972
Date Analyzed: 02/25/12
Instrument: Linus
Initial Cal. Date: 02/25/12
Data File: 0225L011.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	1.448	1.192	18	TM	
3	TM	2-Methylnaphthalene	0.8787	0.7787	11	TM	
4	TM	1-Methylnaphthalene	0.8649	0.7452	14	TM	
5	I	Acenaphthene-D10(IS)	ISTD			I	
6	TM	1,1'-Biphenyl	2.147	1.924	10	TM	
7	TM	Acenaphthylene	2.477	2.279	8.0	TM	
8	*TM	Acenaphthene	1.426	1.316	7.7	*TM	
9	TM	Fluorene	1.675	1.560	6.9	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.478	1.406	4.8	TM	
12	TM	Anthracene	1.301	1.296	0.40	TM	
13	*TM	Fluoranthene	1.805	1.743	3.4	*TM	
14	I	Chrysene-D12(IS)	ISTD			I	
15	TM	Pyrene	1.463	1.333	8.9	TM	
16	TM	Benz (a) anthracene	1.146	1.035	9.6	TM	
17	TM	Chrysene	1.185	1.173	1.1	TM	
18	TM	Indeno (1,2,3-cd) pyrene	0.3296	0.2672	19	TM	
19	I	Perylene-D12(IS)	ISTD			I	
20	TM	Benzo (b) fluoranthene	1.467	1.428	2.7	TM	
21	TM	Benzo (k) fluoranthene	1.267	1.270	0.20	TM	
22	*TM	Benzo (a) pyrene	1.212	1.276	5.3	*TM	
23	TM	Dibenz (a,h) anthracene	0.9312	1.058	14	TM	
24	TM	Benzo (g,h,i) perylene	1.089	1.151	5.7	TM	
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			7.9		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L011.D Vial: 11
Acq On : 25 Feb 12 15:15 Operator: LF
Sample : 5.0ug/ml SS PAH 02-25-12 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 8:00 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 07:59:44 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	6.13	136	9016	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	8.13	164	4278	2.50000	ppb		0.00
12) Phenanthrene-D10(IS)	9.86	188	6935	2.50000	ppb		0.00
16) Chrysene-D12(IS)	12.92	240	9574	2.50000	ppb		0.00
22) Perylene-D12(IS)	14.54	264	7504	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%			
18) Surrogate Recovery (TPH)	0.00	244	0d	0.00000	ppb		
Spiked Amount 2.000			Recovery =	0.000%			
Target Compounds							Qvalue
3) Naphthalene	6.15	128	21489	4.11478	ppb		100
4) 2-Methylnaphthalene	6.94	142	14042	4.43099	ppb		99
5) 1-Methylnaphthalene	7.05	142	13438	4.30833	ppb		99
8) 1,1'-Biphenyl	7.48	154	16461	4.47950	ppb		100
9) Acenaphthylene	7.96	152	19501	4.60090	ppb		99
10) Acenaphthene	8.17	154	11262	4.61551	ppb		98
11) Fluorene	8.77	166	13350	4.65662	ppb		99
13) Phenanthrene	9.88	178	19505	4.75775	ppb		100
14) Anthracene	9.94	178	17972	4.97995	ppb		100
15) Fluoranthene	11.26	202	24175	4.82778	ppb		97
17) Pyrene	11.51	202	25521	4.55437	ppb		98
19) Benz (a) anthracene	12.91	228	19827	4.51880	ppb		99
20) Chrysene	12.96	228	22453	4.94727	ppb		99
21) Indeno (1,2,3-cd) pyrene	15.98	276	5116	4.05349	ppb	#	94
23) Benzo (b) fluoranthene	14.09	252	21431	4.86550	ppb		99
24) Benzo (k) fluoranthene	14.13	252	19057	5.01021	ppb		99
25) Benzo (a) pyrene	14.47	252	19153	5.26546	ppb		99
26) Dibenz (a,h) anthracene	16.04	278	15883	5.68259	ppb		93
27) Benzo (g,h,i) perylene	16.41	276	17281	5.28447	ppb		99

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

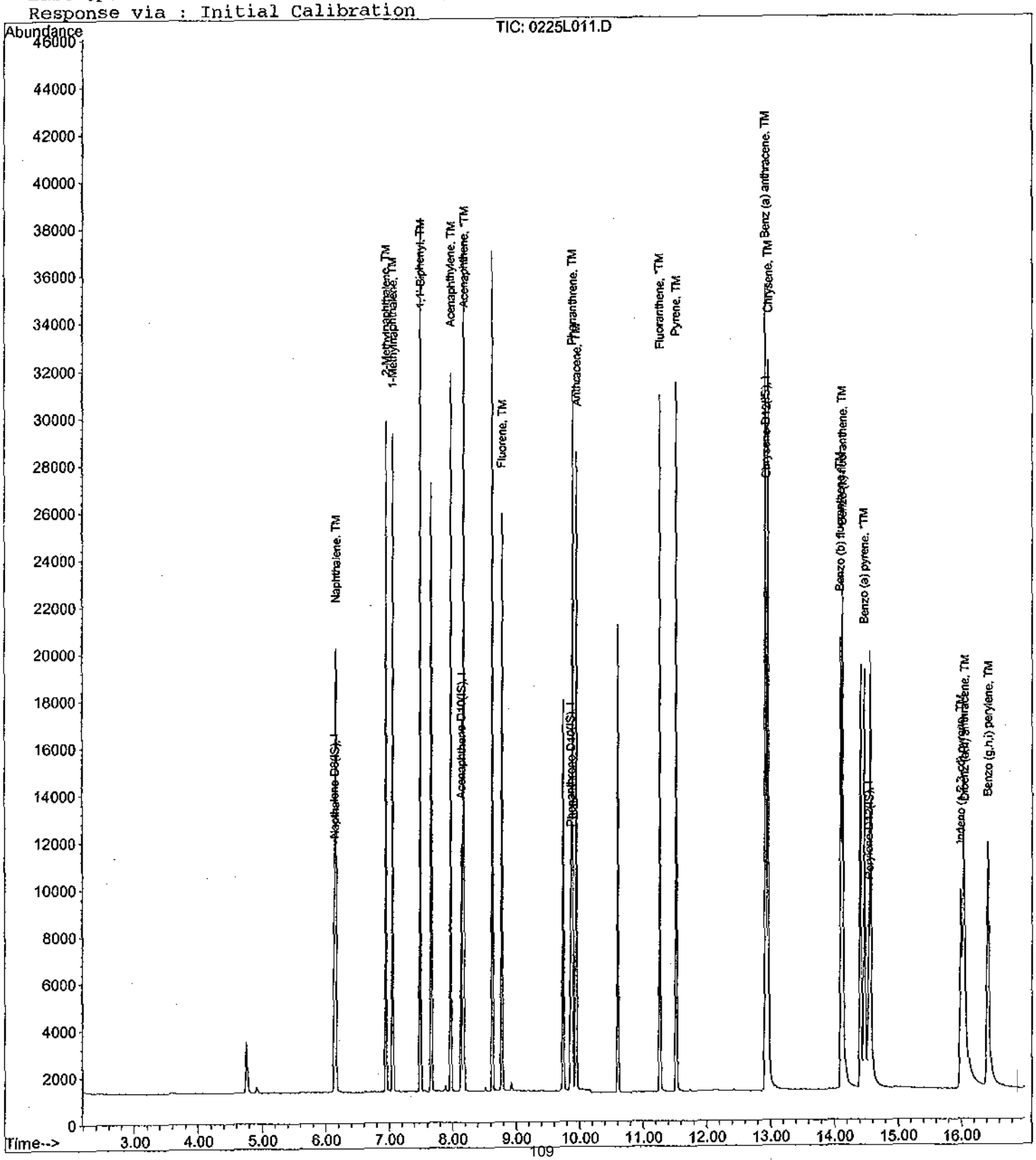
Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L011.D
Acq On : 25 Feb 12 15:15
Sample : 5.0ug/ml SS PAH 02-25-12
Misc :

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

Quant Time: Feb 27 8:00 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Raw Data

Method Blank
EPA 8270D SIM

Blank Name/QCG: **120222W-54765 - 164329**
Batch ID: #SIMHC-120222A

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	02/22/12	02/25/12
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	02/22/12	02/25/12
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	02/22/12	02/25/12
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	02/22/12	02/25/12
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	02/22/12	02/25/12
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	02/22/12	02/25/12
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	02/22/12	02/25/12
BLANK	SURROGATE: 2-FLUORBIPHENY	50.7	50-110			%	02/22/12	02/25/12
BLANK	SURROGATE: NITROBENZENE-	54.7	40-110			%	02/22/12	02/25/12
BLANK	SURROGATE: TERPHENYL-D14 (	62.8	50-135			%	02/22/12	02/25/12

Quant Method:SIMB.M
Run #:0225L012
Instrument:Linus
Sequence:L120225
Initials:LF

GC SC-Blank-REG MDLs
Printed: 02/29/12 11:49:21 AM

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L012.D
Acq On : 25 Feb 12 15:40
Sample : 120222A BLK 1/1000
Misc :

Vial: 12
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Feb 27 8:20 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.13	136	10757	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.13	164	5207	2.50000 ppb	0.00
12) Phenanthrene-D10(IS)	9.86	188	8896	2.50000 ppb	0.00
16) Chrysene-D12(IS)	12.92	240	11001	2.50000 ppb	0.00
22) Perylene-D12(IS)	14.53	264	7960	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.33	82	786	1.09384 ppb	0.00
Spiked Amount 2.000			Recovery = 54.700%		
7) Surrogate Recovery (FBP)	7.37	172	3586	1.01422 ppb	0.00
Spiked Amount 2.000			Recovery = 50.700%		
18) Surrogate Recovery (TPH)	11.73	244	4280	1.25523 ppb	0.00
Spiked Amount 2.000			Recovery = 62.750%		
Target Compounds					Qvalue

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

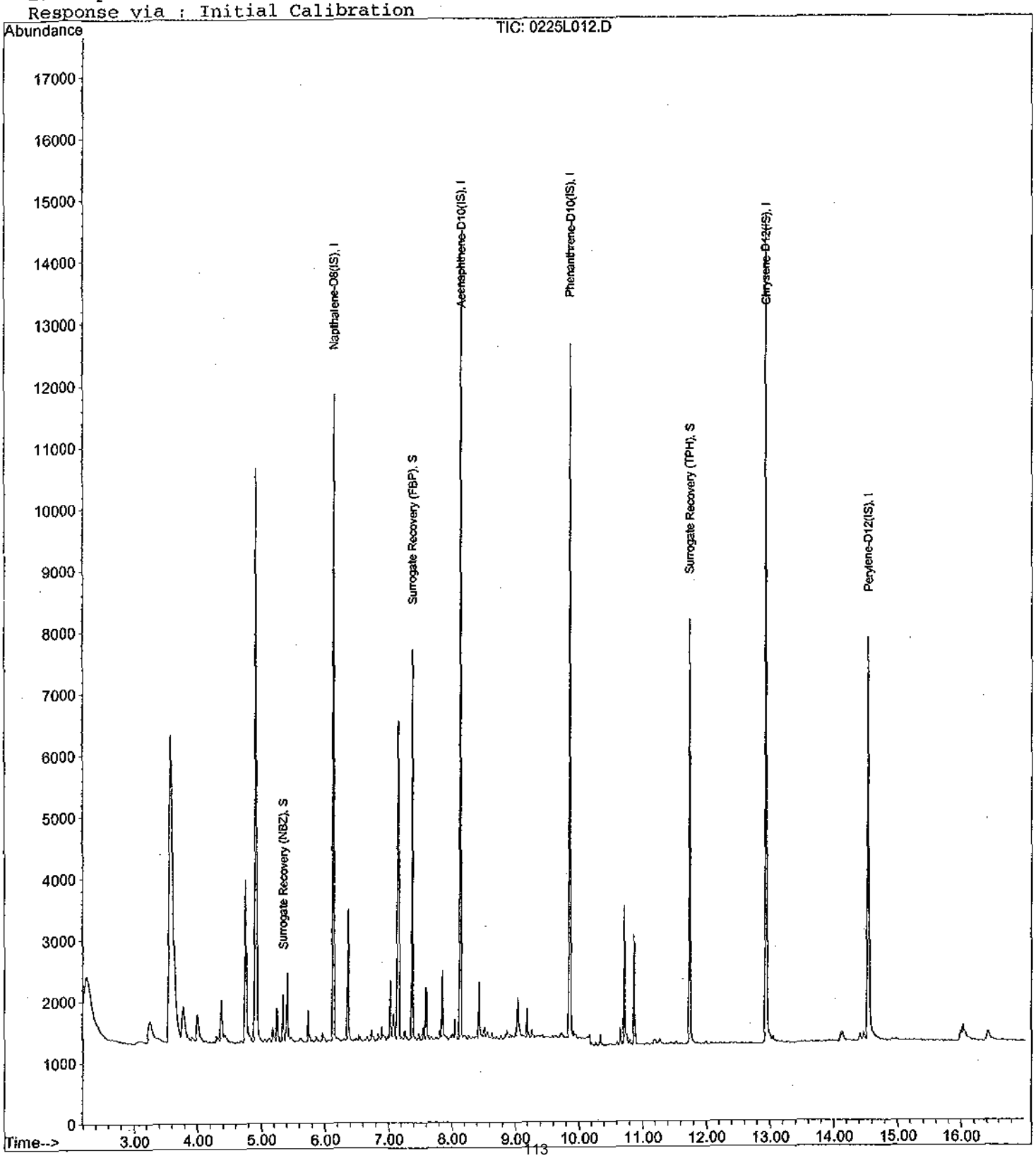
Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L012.D
Acq On : 25 Feb 12 15:40
Sample : 120222A BLK 1/1000
Misc :

Vial: 12
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Feb 27 8:20 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



Laboratory Control Spike Recovery
EPA 8270D SIM

APPL ID: **120222W-54765 LCS - 164329**
Batch ID: #SIMHC-120222A

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	2.40	60.0	45-105
2-METHYLNAPHTHALENE	4.00	2.32	58.0	45-105
ACENAPHTHENE	4.00	2.74	68.5	45-110
ACENAPHTHYLENE	4.00	2.63	65.8	50-105
ANTHRACENE	4.00	2.88	72.0	55-110
BENZO(A)ANTHRACENE	4.00	3.10	77.5	55-110
BENZO(A)PYRENE	4.00	3.16	79.0	55-110
BENZO(B)FLUORANTHENE	4.00	3.22	80.5	45-120
BENZO(GHI)PERYLENE	4.00	3.41	85.3	40-125
BENZO(K)FLUORANTHENE	4.00	3.39	84.8	45-125
CHRYSENE	4.00	3.37	84.3	55-110
DIBENZ(A,H)ANTHRACENE	4.00	3.36	84.0	40-125
FLUORANTHENE	4.00	3.35	83.8	55-115
FLUORENE	4.00	3.14	78.5	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.34	58.5	45-125
NAPHTHALENE	4.00	2.25	56.3	40-100
PHENANTHRENE	4.00	3.02	75.5	50-115
PYRENE	4.00	3.02	75.5	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.14	57.0	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.05	52.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.16	58.0	50-135

Comments: _____

Primary	SPK
Quant Method :	SIMB.M
Extraction Date :	02/22/12
Analysis Date :	02/25/12
Instrument :	Linus
Run :	0225L013
Initials :	LF

Printed: 02/29/12 11:49:22 AM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L120225\0225L013.D Vial: 13
Acq On : 25 Feb 12 16:06 Operator: LF
Sample : 120222A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Feb 27 8:23 2012 Quant Results File: SIMB.RES

Quant Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.13	136	9594	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.13	164	4904	2.50000 ppb		0.00
12) Phenanthrene-D10(IS)	9.86	188	8719	2.50000 ppb		0.00
16) Chrysene-D12(IS)	12.92	240	11708	2.50000 ppb		0.00
22) Perylene-D12(IS)	14.53	264	9093	2.50000 ppb		0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.33	82	674	1.05168 ppb		0.00
Spiked Amount 2.000			Recovery	= 52.600%		
7) Surrogate Recovery (FBP)	7.37	172	3792	1.13875 ppb		0.00
Spiked Amount 2.000			Recovery	= 56.950%		
18) Surrogate Recovery (TPH)	11.73	244	4211	1.16042 ppb		0.00
Spiked Amount 2.000			Recovery	= 58.000%		
Target Compounds						Qvalue
3) Naphthalene	6.15	128	12481	2.24592 ppb		100
4) 2-Methylnaphthalene	6.94	142	7808	2.31540 ppb		99
5) 1-Methylnaphthalene	7.05	142	7965	2.39980 ppb		100
8) 1,1'-Biphenyl	7.48	154	10577	2.51088 ppb		100
9) Acenaphthylene	7.96	152	12787	2.63175 ppb		99
10) Acenaphthene	8.17	154	7676	2.74429 ppb		98
11) Fluorene	8.77	166	10334	3.14448 ppb		100
13) Phenanthrene	9.88	178	15588	3.02431 ppb		100
14) Anthracene	9.94	178	13068	2.88016 ppb		99
15) Fluoranthene	11.26	202	21064	3.34581 ppb		97
17) Pyrene	11.51	202	20709	3.02204 ppb		98
19) Benz (a) anthracene	12.91	228	16623	3.09803 ppb		100
20) Chrysene	12.96	228	18704	3.37005 ppb		100
21) Indeno (1,2,3-cd) pyrene	15.98	276	3614	2.34152 ppb	#	95
23) Benzo (b) fluoranthene	14.09	252	17202	3.22292 ppb		99
24) Benzo (k) fluoranthene	14.13	252	15644	3.39418 ppb		99
25) Benzo (a) pyrene	14.46	252	13921	3.15831 ppb		99
26) Dibenz (a,h) anthracene	16.03	278	11388	3.36238 ppb		99
27) Benzo (g,h,i) perylene	16.41	276	13499	3.40659 ppb		98

$\frac{12481 \times 2.5}{9594 \times 1.448} = 2.246$

LF 3/14/12

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

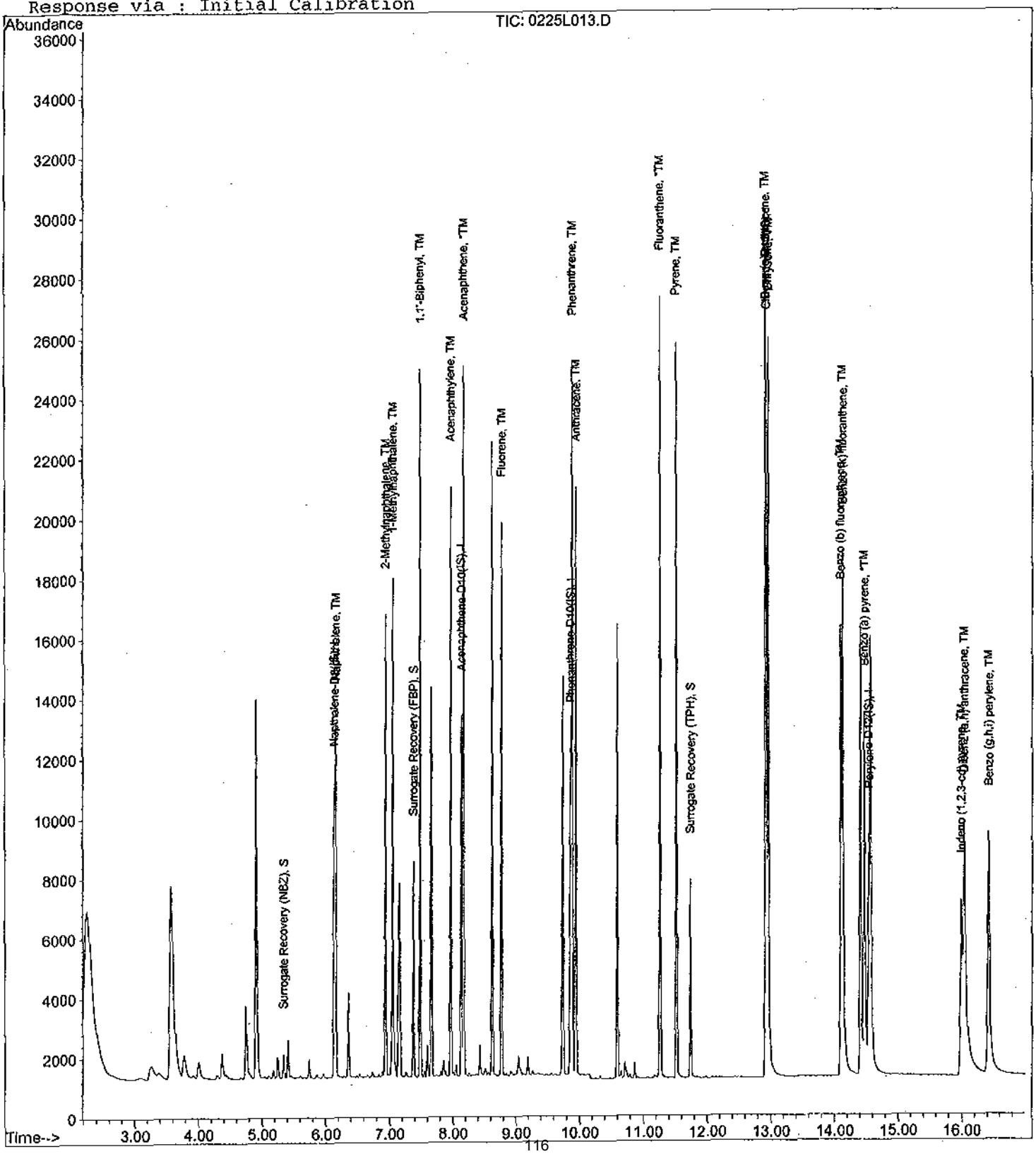
Quantitation Report

Data File : M:\LINUS\DATA\L120225\0225L013.D
Acq On : 25 Feb 12 16:06
Sample : 120222A LCS-1 1/1000
Misc :

Vial: 13
Operator: LF
Inst : Linus
Multiplr: 1.00

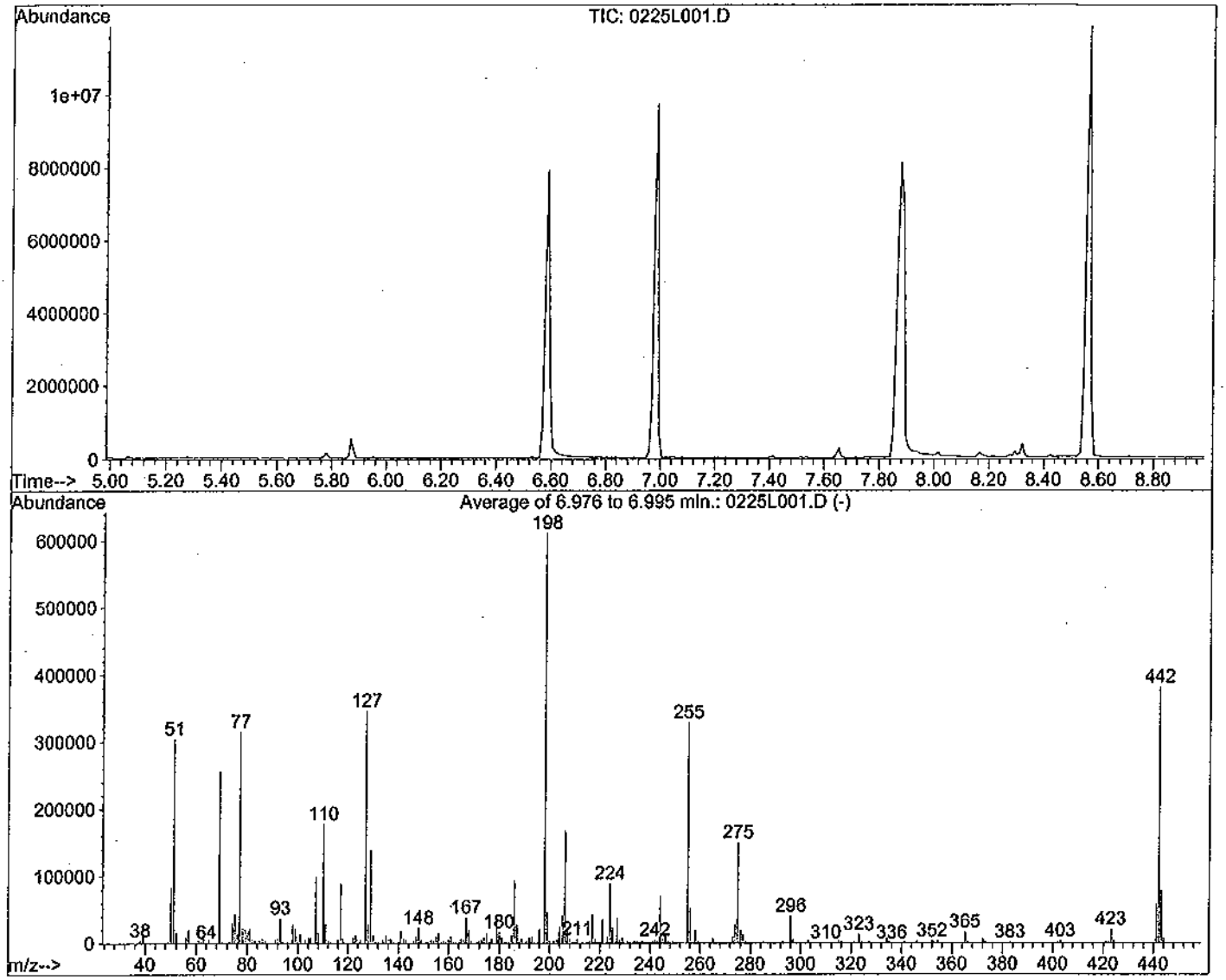
Quant Time: Feb 27 8:23 2012 Quant Results File: SIMB.RES

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Feb 27 08:07:18 2012
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L120225\0225L001.D Vial: 1
Acq On : 25 Feb 12 10:43 Operator: LF
Sample : SVTUNE 10-27-11 Inst : Linus
Misc : Multiplr: 1.00

Method : M:\LINUS\DATA\L120225\SIMB.M (RTE Integrator)
Title : EPA 8270C



Spectrum Information: Average of 6.976 to 6.995 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.7	304390	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	1616	PASS
127	198	40	60	56.6	346382	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	612165	PASS
199	198	5	9	7.5	45954	PASS
275	198	10	30	24.5	149931	PASS
365	198	1	100	2.7	16464	PASS
441	443	0.01	100	74.3	57827	PASS
442	198	40	150	62.3	381525	PASS
443	442	17	23	20.4	77877	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

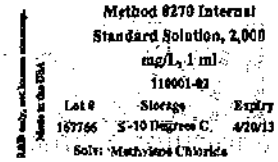
VF 1/25/11

PREP DATE:	01-25-11																	VF
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					VF
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



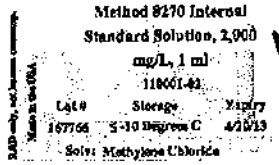
VF exp 1/25/12

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

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

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
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

SIM IS exp 4/25/12
1500µL EM Science MC Lot #47080

VF 3/28/11

o2si smart solutions — 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: 3/28/2011
Date Opened: 8270 BN:A (200:400) Surrogate Solution
Lot #: 160538 - 27574
Rec: 10/18/10 MFR exp. 06/10/12

VF exp 3/28/12

VF 3/28/11

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
		Conc.		Date												
Supplier	ID #	µg/mL	Lot #	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

VF 3/28/11

PREP DATE:	03-28-11					
8270 Second Source (SS) 50ug/mL						50 VF
		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 4/8/11

GCM-160-1 — ULTRA — 1 mL
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
Semi-volatiles GC/MS Tuning Standard
Lot #: CF-2995 - 26131
Rec: 2/17/10 MFR exp. 08/31/11

VF exp 8/31/11

VF 4/13/11

PREP DATE:	04-13-11						
SV Tune Mix 50ug/ml							
Exp:	08-31-11						
		Conc.			Date	CODE:	
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

VF exp 8/31/11

VF 4/20/11

8270D PAH SIM Solution, 200 mg/L, 1 ml
110780-01
Lot # 170253 — Storage ≤-10 Degrees C — Expiry 3/3/13
Solvt Methylene Chloride

VF exp 4/20/12

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

BA

VF 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
Solvt Methylene Chloride

VF exp 4/20/12

8270D PAH SIM (SS)
Lot #: 170256 - 28487

BA

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

8270 BN:A (200:400) Surrogate Solution, 1 ml
516004-17
Lot # 167801 | Storage 5-10 Degrees C | Expiry 1/9/13
Solv: Methylene Chloride

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
		Conc.		Date										
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date		µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		07/26/11	01-26-12		5	5	10	20	25	30	40	50
	Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12		5	5	10	20	25	30	40	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 (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		47186				75
						Final Vol.	100

VF 9/21/11

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
		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		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

PREP DATE:	09-21-11						
SIM 8270 Second Source (5µg/mL)							
Exp:	10-05-11						
				Conc.	Date	CODE:	
Supplier	ID #		Lot #	µg/mL	Code	Exp.Date	µL
	8270D PAH SIM (SS)		170256-28487	200	04/20/11	04-20-12	5
	MeCl2			Lot#47186			195
					Final Volume		200

8270 BN Solution 14-4, 2,000 mg/L, 1 ml

Cat. No: 110391-01
Lot No: 158119
8270BN Solution 14-4
Lot #: 158119 - 28021
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

8270 BN Solution 14-3, 2,000 mg/L, 1 ml

Cat. No: 110392-01
Lot No: 158120
8270BN Solution 14-3
Lot #: 158120 - 28023
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
ened: _____

8270 Acid Solution 4-6, 2,000 mg/L, 1 ml

Cat. No: 110393-01
Lot No: 158121
8270B Acid Solution 4-6
Lot #: 158121 - 28025
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
ned: _____

TCL Hazardous Substances Solution 2, 2,000 mg/L, 1 ml

Cat. No: 110394-01
Lot No: 158122
TCL Hzd. Soln. 2
Lot #: 158122 - 28018
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

PAH Solution 17-3, 2,000 mg/L, 1 ml

Cat. No: 116070-02
Lot No: 158123
PAH Solution
Lot #: 158123 - 28027
Rec: 12/16/10 MFR exp. 07/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

8270 Acid Solution 13-4, 2,000 mg/L, 1 ml

Cat. No: 110396-01
Lot No: 158124
8270 Acid Solution 13-4
Lot #: 158124 - 28029
Rec: 12/16/10 MFR exp. 04/17/13

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only
d: _____

10/24/11

8270 BN Solution 4-21, 2,000 mg/L, 1 ml

o2si

Cat. No: 110395-01
Lot No: 158125

Exp: 4/17/2013
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

8270BN Solution 4-21
Lot #: 158125 - 28031
Rec: 12/16/10 MFR exp. 04/17/13

UF exp 10/12/11

10/24/11

8270 11 Compound Custom Mix, 200:2,000 mg/L, 1 ml

o2si

Cat. No: 110397-01
Lot No: 158127

Exp: 4/12/2012
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

8270 11 Compound Mix
Lot #: 158127 - 28033
Rec: 12/16/10 MFR exp. 04/12/12

UF exp 4/12/12

10/24/11

Atrazine Solution, 1,000 mg/L, 1 ml

o2si

Cat. No: 010337-01
Lot No: 158126

Exp: 4/12/2012
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

Atrazine
Lot #: 158126 - 28019
Rec: 12/16/10 MFR exp. 04/12/12

UF exp 4/12/12

10/24/11

PREP DATE:	10-11-11					
8270C Second Source Stock Standard						
Exp:	04-12-12					
		Conc.		Date	CODE:	F
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
O2SI	110391-01	2000	158119-28021	10-11-11	04-17-13	1000
O2SI	110392-01	2000	158120-28023	10-11-11	04-17-13	1000
O2SI	110393-01	2000	158121-28025	10-11-11	04-17-13	1000
O2SI	110394-01	2000	158122-28018	10-11-11	04-17-13	1000
O2SI	116070-02	2000	158123-28027	10-11-11	04-17-13	1000
O2SI	110395-01	2000	158125-28031	10-11-11	04-17-13	1000
O2SI	110396-01	2000	158124-28029	10-11-11	04-17-13	1000
O2SI	110397-01	2000	158127-28033	10-11-11	04-12-12	1000
O2SI	010337-01	1000	158126-28019	10-11-11	04-12-12	1000
EM Science	MeCl2		47186			1000
					Final Vol	10000

UF

10/24/11

PREP DATE:	10-11-11													
8270 STANDARD CURVE														
Exp:	10-18-11						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		07/26/11	01-26-12	5	5	10	20	25	30	40	50	
	Surrogate Stock	VAR	161802-29311	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	

UF

10/24/11

PREP DATE:	10-11-11					
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

UF

10/24/11

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
Lab Use Only

UF

50µg/mL 8270 SV Tune Mix
1ml of GCM-160-1 opened 10/24/11 into 10mls EM Science MC Lot#47186
exp 10/24/12

LF 10/18/12

Part #: 10001 Laboratory Use Only - See MSDS
Lot #: 042910 Exp: 042913 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in methy
ABSOLUTE STANDARD
CLP Semi-Volatiles Base/Neutrals Mix #1
Lot #: 042910 - 28440
Rec: 3/8/11 MFR exp. 4/29/2013

exp 10/18/12

LF 10/18/12

Part #: 10001 Laboratory Use Only - See MSDS
Lot #: 042910 Exp: 042913 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in m
ABSOLUTE STANDA
Lot #: 042910 - 29085
Rec: 8/4/11 MFR exp. 04/29/13

exp 10/18/12

LF 10/18/12

Part #: 10002 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in methyle
ABSOLUTE STANDARDS
CLP Semi-Volatiles Base/Neutrals Mix #2
Lot #: 073109 - 28446
Rec: 3/8/11 MFR exp. 7/31/2012

exp LF 7/31/12

LF 10/18/12

Part #: 10002 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components
2000 ug/mL in met
ABSOLUTE STANDAF
CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 29090
Rec: 8/4/11 MFR exp. 07/31/12

exp 7/31/12

LF 10/18/12

Part #: 10004 Laboratory Use Only - See MSDS
Lot #: 101509 Exp: 101514 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in methyl
ABSOLUTE STANDARDS
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 28453
Rec: 3/8/11 MFR exp. 10/15/201

exp 10/18/12

LF 10/18/12

Part #: 10004 Laboratory Use Only - See MSDS
Lot #: 101509 Exp: 101514 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in meti
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 29095
Rec: 8/4/11 MFR exp. 10/15/14

exp 10/18/12

LF 10/18/12

Part #: 10005 Laboratory Use Only - See MSDS
Lot #: 061209 Exp: 061214 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
8 components
2000 ug/mL in methy
ABSOLUTE STANDARD
CLP Semi-Volatiles Toxic Substances #2
Lot #: 061209 - 28458
Rec: 3/8/11 MFR exp. 6/12/2014

exp 10/18/12

LF 10/18/12

Part #: 10005 Laboratory Use Only - See MSDS
Lot #: 121208 Exp: 121213 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
8 components
2000 ug/mL in met
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #2
Lot #: 121208 - 29100
Rec: 8/4/11 MFR exp. 12/12/13

exp 10/18/12

Part #: 10006
Lot #: 120810
Laboratory Use Only - See MSDS
Exp: 120813 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in methar
ABSOLUTE STANDARD
CLP Semi-Volatiles - Benzidines
Lot #: 120810 - 28462
Rec: 3/8/11 MFR exp. 12/8/2013

exp 10/18/12

Part #: 10006
Lot #: 071211
Laboratory Use Only - See MSDS
Exp: 071214 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in meth
ABSOLUTE STANDAR
Lot #: 071211 - 29105
Rec: 8/4/11 MFR exp. 07/12/14

exp 10/18/12

Part #: 10007
Lot #: 100909
Laboratory Use Only - See MSDS
Exp: 100914 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components
2000 ug/mL in methy
ABSOLUTE STANDAR
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 28469
Rec: 3/8/11 MFR exp. 10/9/2014

exp 10/18/12

Part #: 10007
Lot #: 100909
Laboratory Use Only - See MSDS
Exp: 100914 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components
2000 ug/mL in meth
ABSOLUTE STANDAR
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 29110
Rec: 8/4/11 MFR exp. 10/09/14

exp 10/18/12

Part #: 10018
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Pher
2000 ug/mL in methyl
ABSOLUTE STANDARD
CLP Semi-Volatiles Mix #8 - Phenols
Lot #: 073109 - 28410
Rec: 3/8/11 MFR exp. 7/31/2014

exp 10/18/12

Part #: 10018
Lot #: 062111
Laboratory Use Only - See MSDS
Exp: 062116 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Ph
2000 ug/mL in meth
ABSOLUTE STANDARI
EPA Method 8270A - Analytes Mix #8
Lot #: 062111 - 29115
Rec: 8/4/11 MFR exp. 06/21/16

exp 10/18/12

Part #: 70023
Lot #: 080310
Laboratory Use Only - See MSDS
Exp: 080315 Storage 4 °C
Atrazine
1000 ug/mL in aceto
ABSOLUTE STANDARI
Atrazine
Lot #: 080310 - 28416
Rec: 3/8/11 MFR exp. 8/13/2015

exp 10/18/12

Part #: 70023
Lot #: 031611
Laboratory Use Only - See MSDS
Exp: 031616 Storage 4 °C
Atrazine
1000 ug/mL in ace
ABSOLUTE STANDA
Atrazine
Lot #: 031611 - 29120
Rec: 8/4/11 MFR exp. 03/16/16

exp 10/18/12

_SEP004S

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	120229A	Extraction Method	SEP004S	Units	mL

Spiked ID 1	SIM Spike 178987-29584		Surrogate ID 1	8270 SIM Surrogate 177982-29476	
Spiked ID 2			Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	no	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	02/28/12 0:00	

pH1	2	02/21/12 8:00:00 PM	Water Bath Temp Criteria	80 °C
pH2	14	02/22/12 8:00:00 AM		
pH3				

Spiked By: GH **Date** 02/21/12 **Witnessed By:** DRA **Date** 02/21/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	120229A Blk				0.025	1 equip	1000 E-WB5	1	2/1	02/22/12 19:55	
2	120229A LCS-1		0.025	1	0.025	1 equip	1000 E-WB5	1	2/1	02/22/12 19:55	
3	AY54765	AY54765W07			0.025	1 equip	980 E-WB5	1	2/1	02/22/12 19:55	66972- 2 WEEK RUSH -- Amber Liter
4	AY54782	AY54782W05			0.025	1 equip	950 E-WB5	1	2/1	02/22/12 19:55	66978- 2 WEEK RUSH -- Amber Liter
5	AY54783	AY54783W07			0.025	1 equip	950 E-WB5	1	2/1	02/22/12 19:55	66978- 2 WEEK RUSH -- Amber Liter
6	AY54784	AY54784W05			0.025	1 equip	1020 E-WB5	1	2/1	02/22/12 19:55	66978- 2 WEEK RUSH -- Amber Liter
7	AY54785	AY54785W05			0.025	1 equip	960 E-WB5	1	2/1	02/22/12 19:55	66978- 2 WEEK RUSH -- Amber Liter
8	AY54800	AY54800W17			0.025	1 equip	1050 E-WB5	1	2/1	02/22/12 19:55	67001- 2 WEEK RUSH -- Amber Liter
9	AY54807	AY54807W07			0.025	1 equip	1050 E-WB5	1	2/1	02/22/12 19:55	67001-2 WEEK RUSH -- Amber Liter
10	AY54874	AY54874W02			0.025	1 equip	960 E-WB5	1	2/1	02/22/12 19:55	66984 -- Amber Liter
11	AY54934	AY54934W13			0.025	1 equip	1040 E-WB6	1	2/1	02/22/12 19:55	66995-2 WEEK RUSH -- Amber Liter
12	AY54935	AY54935W13			0.025	1 equip	1050 E-WB6	1	2/1	02/22/12 19:55	66995-2 WEEK RUSH -- Amber Liter
13	AY54936	AY54936W17			0.025	1 equip	1020 E-WB6	1	2/1	02/22/12 19:55	66995-2 WEEK RUSH -- Amber Liter

Solvent and Lot#	
MC	EMD51257
Na2SO4	2351C512
10N NaOH	02/02/12
1+1 Acid	09/15/11
A. Na2SO4	10/31/11

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	LF
Date	2/25/12
Time	800
Refrigerator	Warm

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	IC
Concentration	IC

Modified	02/21/12 8:51:46 AM

Reviewed By: DRA **Date** 02/24/12

SEP004S

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	120220A	Extraction Method	SEP004S	Units	mL

Spiked ID 1	SIM Spike 178987-29584		Surrogate ID 1	8270 SIM Surrogate 177982-29476	
Spiked ID 2			Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	no	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	02/28/12 0:00	

pH1	2	02/21/12 8:00:00 PM	Water Bath Temp Criteria	80 °C
pH2	14	02/22/12 8:00:00 AM		
pH3				

Spiked By: GH **Date** 02/21/12 **Witnessed By:** DRA **Date** 02/21/12

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
14	AY54946	AY54946W08			0.025	1	1040	1	2/1	02/22/12 19:55	66995-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				
15	AY54947	AY54947W18			0.025	1	1040	1	2/1	02/22/12 19:55	66995-2 WEEK RUSH -- Amber Liter
						equip	E-WB6				

DRA 2/24/12

Solvent and Lot#	
MC	EMD51257
Na2SO4	2351C512
10N NaOH	02/02/12
1+1 Acid	09/15/11
A. Na2SO4	10/31/11

Extraction COC Transfer	
Extraction lab employee Initials	DRA
GC analyst's initials	
Date	2/24/12
Time	800
Refrigerator	Warm

	Technician's Initials
Scanned By	DL
Sample Preparation	DL
Extraction	IC
Concentration	IC

Modified	02/21/12 8:51:46 AM

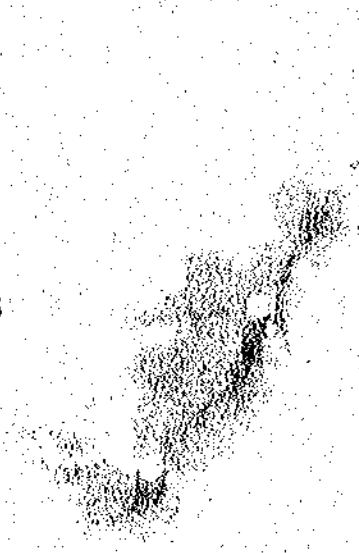
Reviewed By: DRA **Date** 02/24/12

Injection Log

Directory: M:\LINUS\DATA\L120225\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0225L001.D	1	SVTUNE 10-27-11		25 Feb 12 10:43
2	3	0225L003.D	1	0.1ug/ml PAH 02-25-12		25 Feb 12 11:51
3	4	0225L004.D	1	0.2ug/ml PAH		25 Feb 12 12:16
4	5	0225L005.D	1	0.5ug/ml PAH		25 Feb 12 12:42
5	6	0225L006.D	1	1.0ug/ml PAH		25 Feb 12 13:07
6	7	0225L007.D	1	5.0ug/ml PAH		25 Feb 12 13:33
7	8	0225L008.D	1	10ug/ml PAH		25 Feb 12 13:58
8	9	0225L009.D	1	50ug/ml PAH		25 Feb 12 14:24
9	10	0225L010.D	1	100ug/ml PAH		25 Feb 12 14:49
10	11	0225L011.D	1	5.0ug/ml SS PAH 02-25-12		25 Feb 12 15:15
11	12	0225L012.D	1	120222A BLK 1/1000		25 Feb 12 15:40
12	13	0225L013.D	1	120222A LCS-1 1/1000		25 Feb 12 16:06
13	14	0225L014.D	1.02041	AY54765W07 1/980		25 Feb 12 16:31

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: **120215W-54765 - 164031**
Batch ID: #86RHB-120215AC

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	02/15/12	02/15/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	02/15/12	02/15/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/15/12	02/15/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	02/15/12	02/15/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	02/15/12	02/15/12
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	02/15/12	02/15/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/15/12	02/15/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	02/15/12	02/15/12
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	02/15/12	02/15/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	02/15/12	02/15/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	02/15/12	02/15/12
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	02/15/12	02/15/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	02/15/12	02/15/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	02/15/12	02/15/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	02/15/12	02/15/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	02/15/12	02/15/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	02/15/12	02/15/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	02/15/12	02/15/12
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	02/15/12	02/15/12

Quant Method: CALLW.M
Run #: 0215C10
Instrument: Chico
Sequence: C120202
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/21/12 4:08:53 PM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **120215W-54765 - 164031**
Batch ID: #86RHB-120215AC

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	02/15/12	02/15/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	02/15/12	02/15/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	02/15/12	02/15/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	SURROGATE: 1,2-DICHLOROET	97.1	70-120			%	02/15/12	02/15/12
BLANK	SURROGATE: 4-BROMOFLUORO	97.7	75-120			%	02/15/12	02/15/12
BLANK	SURROGATE: DIBROMOFLUOR	96.0	85-115			%	02/15/12	02/15/12
BLANK	SURROGATE: TOLUENE-D8 (S)	92.1	85-120			%	02/15/12	02/15/12

Quant Method: CALLW.M
Run #: 0215C10
Instrument: Chico
Sequence: C120202
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/21/12 4:08:53 PM

Method Blank

EPA 8260B VOCS + GAS WATER

Blank Name/QCG: **120216W-54765 - 164032**
Batch ID: #86RHB-120216AC

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHYLENE CHLORIDE	0.74 J	5.0	0.70	0.35	ug/L	02/16/12	02/16/12
BLANK	SURROGATE: 1,2-DICHLOROET	101	70-120			%	02/16/12	02/16/12
BLANK	SURROGATE: 4-BROMOFLUORO	98.5	75-120			%	02/16/12	02/16/12
BLANK	SURROGATE: DIBROMOFLUOR	99.5	85-115			%	02/16/12	02/16/12
BLANK	SURROGATE: TOLUENE-D8 (S)	89.3	85-120			%	02/16/12	02/16/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0216C08
Instrument: Chico
Sequence: C120202
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/21/12 4:06:42 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66972

Case No: 66972 Date Analyzed: 02/15/12

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
120215AC-LCS	Lab Control Spike	70-120	94.4		75-120	97.3	
120215AC-BLK	Blank	70-120	97.1		75-120	97.7	
AY54766	TRIP BLANK	70-120	101		75-120	97.7	
AY54765	ES069	70-120	98.2		75-120	95.7	

Comments: Batch: #86RHB-120215AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66972

Case No: 66972 Date Analyzed: 02/15/12

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120215AC-LCS	Lab Control Spike	85-115	98.9		85-120	92.8	
120215AC-BLK	Blank	85-115	96.0		85-120	92.1	
AY54766	TRIP BLANK	85-115	98.0		85-120	91.3	
AY54765	ES069	85-115	96.1		85-120	89.2	

Comments: Batch: #86RHB-120215AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66972

Case No: 66972 Date Analyzed: 02/16/12

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
120216AC-LCS	Lab Control Spike	70-120	94.4		75-120	94.9	
120216AC-BLK	Blank	70-120	101		75-120	98.5	
AY54765	ES069	70-120	110		75-120	97.6	
AY54766	TRIP BLANK	70-120	108		75-120	97.1	

Comments: Batch: #86RHB-120216AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 66972

Case No: 66972 Date Analyzed: 02/16/12

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
120216AC-LCS	Lab Control Spike	85-115	98.0		85-120	89.9	
120216AC-BLK	Blank	85-115	99.5		85-120	89.3	
AY54765	ES069	85-115	105		85-120	86.5	
AY54766	TRIP BLANK	85-115	105		85-120	87.6	

Comments: Batch: #86RHB-120216AC

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120215W-54765 LCS - 164031**
Batch ID: #86RHB-120215AC

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	10.4	104	80-130
1,1,1-TRICHLOROETHANE	10.00	10.9	109	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.0	100	65-130
1,1,2-TRICHLOROETHANE	10.00	10.4	104	75-125
1,1-DICHLOROETHANE	10.00	10.8	108	70-135
1,1-DICHLOROETHENE	10.00	10.1	101	70-130
1,2,3-TRICHLOROPROPANE	10.00	9.51	95.1	75-125
1,2,4-TRICHLOROBENZENE	10.00	10.2	102	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.57	85.7	50-130
1,2-DIBROMOETHANE	10.00	9.77	97.7	70-130
1,2-DICHLOROBENZENE	10.00	9.62	96.2	70-120
1,2-DICHLOROETHANE	10.00	10.6	106	70-130
1,2-DICHLOROPROPANE	10.00	9.81	98.1	75-125
1,3-DICHLOROBENZENE	10.00	9.60	96.0	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	20.6	103	70-130
1,4-DICHLOROBENZENE	10.00	9.78	97.8	75-125
2-BUTANONE	10.00	10.0	100	30-150
4-METHYL-2-PENTANONE	10.00	9.36	93.6	60-135
ACETONE	10.00	12.4	124	40-140
BENZENE	10.00	10.2	102	80-120
BROMODICHLOROMETHANE	10.00	10.5	105	75-120
BROMOFORM	10.00	9.28	92.8	70-130
BROMOMETHANE	10.00	10.4	104	30-145
CARBON TETRACHLORIDE	10.00	10.8	108	65-140
CHLOROBENZENE	10.00	10.2	102	80-120
CHLORODIBROMOMETHANE	10.00	10.1	101	60-135

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	02/15/12
Analysis Date :	02/15/12
Instrument :	Chico
Run :	0215C04
Initials :	ARS

Printed: 02/21/12 4:08:45 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120215W-54765 LCS - 164031**
Batch ID: #86RHB-120215AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROETHANE	10.00	11.4	114	60-135
CHLOROFORM	10.00	10.7	107	65-135
CHLOROMETHANE	10.00	9.97	99.7	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.5	105	70-125
ETHYLBENZENE	10.00	9.98	99.8	75-125
GASOLINE	300	357	119	75-125
HEXACHLOROBUTADIENE	10.00	11.1	111	50-140
METHYL TERT-BUTYL ETHER	10.00	9.97	99.7	65-125
STYRENE	10.00	10.4	104	65-135
TETRACHLOROETHENE	10.00	10.4	104	45-150
TOLUENE	10.00	10.4	104	75-120
TRANS-1,2-DICHLOROETHENE	10.00	10.6	106	60-140
TRICHLOROETHENE	10.00	10.9	109	70-125
VINYL CHLORIDE	10.00	10.9	109	50-145
XYLENES (TOTAL)	30.0	30.2	101	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	21.7	20.5	94.4	70-120
SURROGATE: 4-BROMOFLUOROBENZE	25.9	25.2	97.3	75-120
SURROGATE: DIBROMOFLUOROMETH	22.4	22.2	98.9	85-115
SURROGATE: TOLUENE-D8 (S)	24.0	22.3	92.8	85-120

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	02/15/12
Analysis Date :	02/15/12
Instrument :	Chico
Run :	0215C04
Initials :	ARS

Printed: 02/21/12 4:08:45 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCS + GAS WATER

APPL ID: **120216W-54765 LCS - 164032**
Batch ID: #86RHB-120216AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
METHYLENE CHLORIDE	10.00	11.6	116	55-140
SURROGATE: 1,2-DICHLOROETHANE-D	21.7	20.5	94.4	70-120
SURROGATE: 4-BROMOFLUOROBENZE	25.9	24.6	94.9	75-120
SURROGATE: DIBROMOFLUOROMETH	22.4	22.0	98.0	85-115
SURROGATE: TOLUENE-D8 (S)	24.0	21.6	89.9	85-120

Comments:

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	02/16/12
Analysis Date :	02/16/12
Instrument :	Chico
Run :	0216C02
Initials :	ARS

Printed: 02/21/12 4:06:14 PM

APPL Standard LCS

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66972

Case No: 66972 Date Analyzed: 02/15/12

Matrix: WATER Instrument: Chico

Blank ID: 120215AC-BLK Time Analyzed: 1700

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120215AC-LCS	Lab Control Spike	0215C04	02/15/12 1318
120215AC-BLK	Blank	0215C10	02/15/12 1700
AY54766	TRIP BLANK	0215C11	02/15/12 1737
AY54765	ES069	0215C12	02/15/12 1814

Comments: Batch: #86RHB-120215AC

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 66972

Case No: 66972 Date Analyzed: 02/16/12

Matrix: WATER Instrument: Chico

Blank ID: 120216AC-BLK Time Analyzed: 1312

APPL ID.	Client Sample No.	File ID.	Date Analyzed
120216AC-LCS	Lab Control Spike	0216C02	02/16/12 0929
120216AC-BLK	Blank	0216C08	02/16/12 1312
AY54765	ES069	0216C14	02/16/12 1654
AY54766	TRIP BLANK	0216C15	02/16/12 1731

Comments: Batch: #86RHB-120216AC

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0215C00T.D
Matrix: Water
ID: 25ug/mL BFB Std. 02-13-12

SDG No: 66972
Date Analyzed: 02/15/12
Instrument: Chico
Time Analyzed: 11:07

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		10ug/L Vol Std 02-15	0215C03W.D	02/15/12 12:41
2	Lab Control Spike	120215A LCS-1WC	0215C04W.D	02/15/12 13:18
3	Blank	120215A BLK-1WC	0215C10W.D	02/15/12 17:00
4	TRIP BLANK	AY54766W01	0215C11W.D	02/15/12 17:37
5	ES069	AY54765W01	0215C12W.D	02/15/12 18:14
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	17.2
75	30 - 60% of mass 95	44.3
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.7
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	94.5
175	5 - 9% of mass 174	7.3
176	95 - 101% of mass 174	98.5
177	5 - 9% of mass 176	6.7

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0216C00T.D
Matrix: Water
ID: 25ug/mL BFB Std. 02-13-12

SDG No: 66972
Date Analyzed: 02/16/12
Instrument: Chico
Time Analyzed: 8:23

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		10ug/L Vol Std 02-16	0216C01W.D	02/16/12 8:52
2	Lab Control Spike	120216A LCS-1WC	0216C02W.D	02/16/12 9:29
3	Blank	120216A BLK-1WC	0216C08W.D	02/16/12 13:12
4	ES069	AY54765W02	0216C14W.D	02/16/12 16:54
5	TRIP BLANK	AY54766W02	0216C15W.D	02/16/12 17:31
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	18.1
75	30 - 60% of mass 95	44.9
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.7
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	93.8
175	5 - 9% of mass 174	7.2
176	95 - 101% of mass 174	98.5
177	5 - 9% of mass 176	6.7

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0215C00T.D
Matrix: Water
ID: 25ug/mL BFB Std. 02-13-12

SDG No: 66972
Date Analyzed: 02/15/12
Instrument: Chico
Time Analyzed: 11:07

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		GAS CCV@300ug/L	0215C06W.D	02/15/12 14:32
2	Lab Control Spike	GAS LCS@300ug/L	0215C07W.D	02/15/12 15:08
3	Blank	120215A BLK-1WC	0215C10W.D	02/15/12 17:00
4	TRIP BLANK	AY54766W01	0215C11W.D	02/15/12 17:37
5	ES069	AY54765W01	0215C12W.D	02/15/12 18:14
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	17.2
75	30 - 60% of mass 95	44.3
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.7
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	94.5
175	5 - 9% of mass 174	7.3
176	95 - 101% of mass 174	98.5
177	5 - 9% of mass 176	6.7

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 66972

Lab File ID (Standard): 0202C09W.D Date Analyzed: 2 Feb 12 19:45

Instrument ID: Chico Time Analyzed: 2 Feb 12 19:45

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	587426	12.81	416448	18.01	207872	22.21
	UPPER LIMIT	1174852	13.31	832896	18.51	415744	22.71
	LOWER LIMIT	293713	12.31	208224	17.51	103936	21.71
	SAMPLE NO.						
01	10ug/L Vol Std 02-15-12	594633	12.81	427520	18.01	220480	22.20
02	120215A LCS-1WC	625956	12.82	452480	18.00	239552	22.20
03	120215A BLK-1WC	559634	12.81	397568	18.00	208960	22.20
04	AY54766W01	549442	12.81	388480	18.00	203648	22.20
05	AY54765W01	540443	12.81	396864	18.00	203584	22.20
06	10ug/L Vol Std 02-16-12	581727	12.78	405248	17.97	196800	22.17
07	120216A LCS-1WC	596903	12.79	453632	17.97	232704	22.17
08	120216A BLK-1WC	561092	12.79	416576	17.98	217152	22.18
09	AY54765W02	497736	12.79	390656	17.98	205376	22.18
10	AY54766W02	513080	12.79	391552	17.98	207616	22.18
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.: 66972

Lab File ID (Standard): 0125C32W.D Date Analyzed: 01/26/12

Instrument ID: Chico Time Analyzed: 21:24

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	1085220	12.79	1323770	17.98	1382630	22.18
	UPPER LIMIT	2170440	13.29	2647540	18.48	2765260	22.68
	LOWER LIMIT	542610	12.29	661885	17.48	691315	21.68
	SAMPLE NO.						
01	GAS CCV@300ug/L	1206180	12.82	1255720	18.00	1295220	22.20
02	GAS LCS@300ug/L	1202810	12.81	1237860	18.01	1249530	22.21
03	120215A BLK-1WC	1083710	12.81	1123270	18.00	1087500	22.20
04	AY54766W01	1045230	12.81	1060330	18.00	1065260	22.20
05	AY54765W01	1050470	12.81	1066100	18.00	1050290	22.20
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.

Manual Integration Summary

ARF: 66972

APPL ID	Client ID	Method	Analyte	Type	Comment
AY54765	Blank	EPA 8260B	GASOLINE	Blank	(MI1) Integration does not follow baseline.
AY54765	LCS	EPA 8260B	GASOLINE	LCS	(MI1) Integration does not follow baseline.
AY54765	ES069	EPA 8260B	GASOLINE	Parent	(MI1) Integration does not follow baseline.
AY54766	TRIP BLANK	EPA 8260B	GASOLINE	Parent	(MI1) Integration does not follow baseline.

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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66972

Sample ID: ES069

APPL ID: AY54765

Sample Collection Date: 02/14/12

QCG: #86RHB-120215AC-164031

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	02/15/12	02/15/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	02/15/12	02/15/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/15/12	02/15/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	02/15/12	02/15/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	02/15/12	02/15/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	02/15/12	02/15/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/15/12	02/15/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	02/15/12	02/15/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	02/15/12	02/15/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	02/15/12	02/15/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	02/15/12	02/15/12
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	02/15/12	02/15/12
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	02/15/12	02/15/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	02/15/12	02/15/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	02/15/12	02/15/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	02/15/12	02/15/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	02/15/12	02/15/12
EPA 8260B	GASOLINE	12.12 U MI1	20.0	12.12	6.06	ug/L	02/15/12	02/15/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	02/15/12	02/15/12
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	02/15/12	02/15/12

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

(MI1) Manual integration: Integration does not follow baseline.

Quant Method: CALLW.M
Run #: 0215C12
Instrument: Chico
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/22/12 2:28:33 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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66972

Sample ID: ES069

APPL ID: AY54765

Sample Collection Date: 02/14/12

QCG: #86RHB-120215AC-164031

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	02/15/12	02/15/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	02/15/12	02/15/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	98.2	70-120			%	02/15/12	02/15/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	95.7	75-120			%	02/15/12	02/15/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	96.1	85-115			%	02/15/12	02/15/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	89.2	85-120			%	02/15/12	02/15/12

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
(MI1) Manual integration: Integration does not follow baseline.

Quant Method: CALLW.M
Run #: 0215C12
Instrument: Chico
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/22/12 2:28:33 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C12W.D Vial: 1
Acq On : 15 Feb 12 18:14 Operator: RS, ARS
Sample : AY54765W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 11:15 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Feb 16 10:23:35 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	96	540443	25.00000	ppb	0.00
54) Chlorobenzene-D5 (IS)	18.00	117	396864	25.00000	ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	203584	25.00000	ppb	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	314694	21.56513	ppb	0.00
Spiked Amount 22.441			Recovery = 96.095%			
37) 1,2-DCA-D4(S)	12.20	65	219497	21.31402	ppb	0.00
Spiked Amount 21.710			Recovery = 98.176%			
55) Toluene-D8(S)	15.47	98	1269486	21.42423	ppb	0.00
Spiked Amount 24.025			Recovery = 89.175%			
63) 4-Bromofluorobenzene(S)	20.07	95	490528	24.78789	ppb	0.00
Spiked Amount 25.909			Recovery = 95.672%			
Target Compounds						Qvalue
19) Methylene chloride	8.45	84	5611	0.40624	ppb	74
82) Tert-Butylbenzene	21.31	119	11073	0.16794	ppb	96

B, #J NT

out in CCV → RI

MRS 2/16/12

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

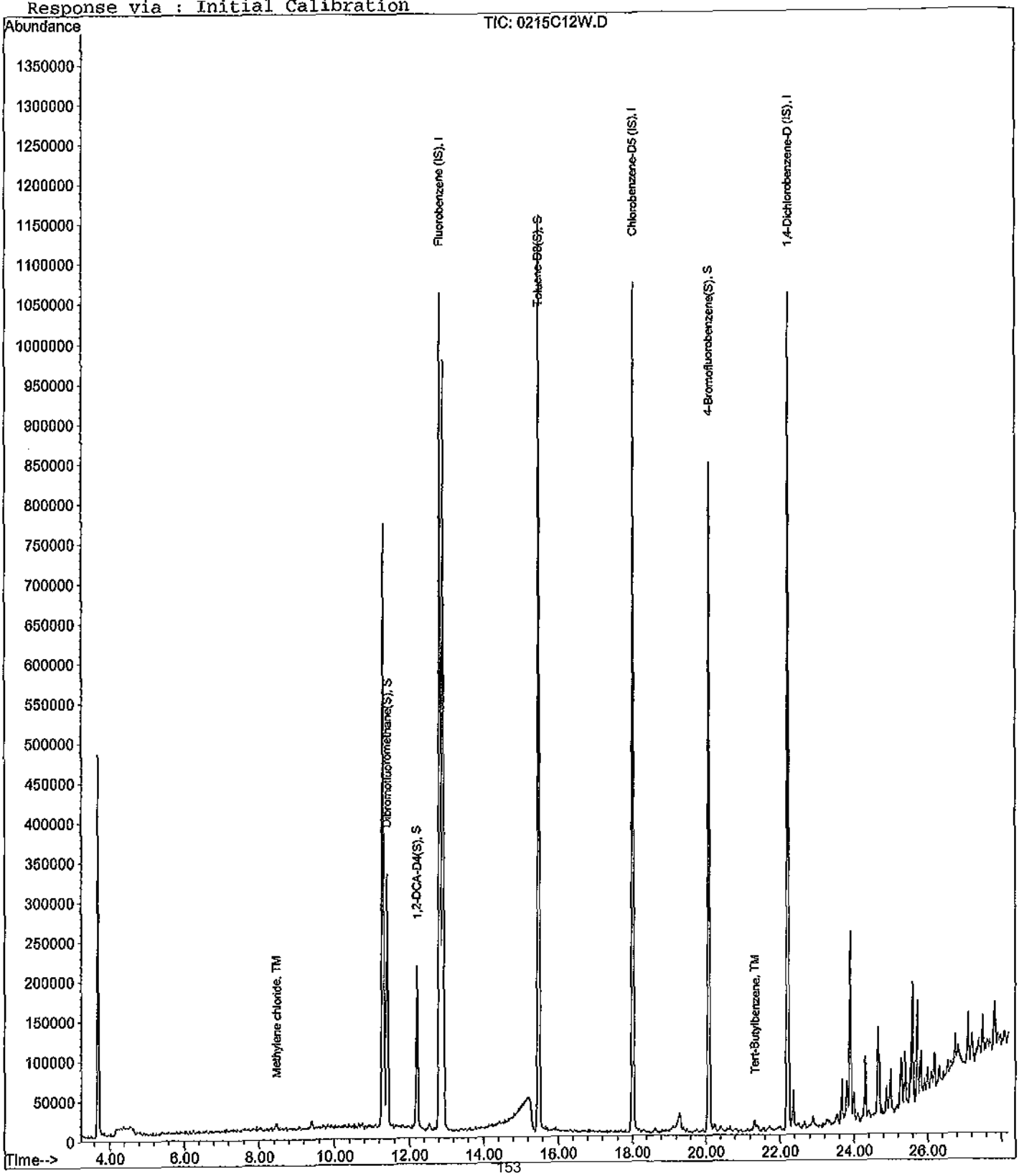
Quantitation Report

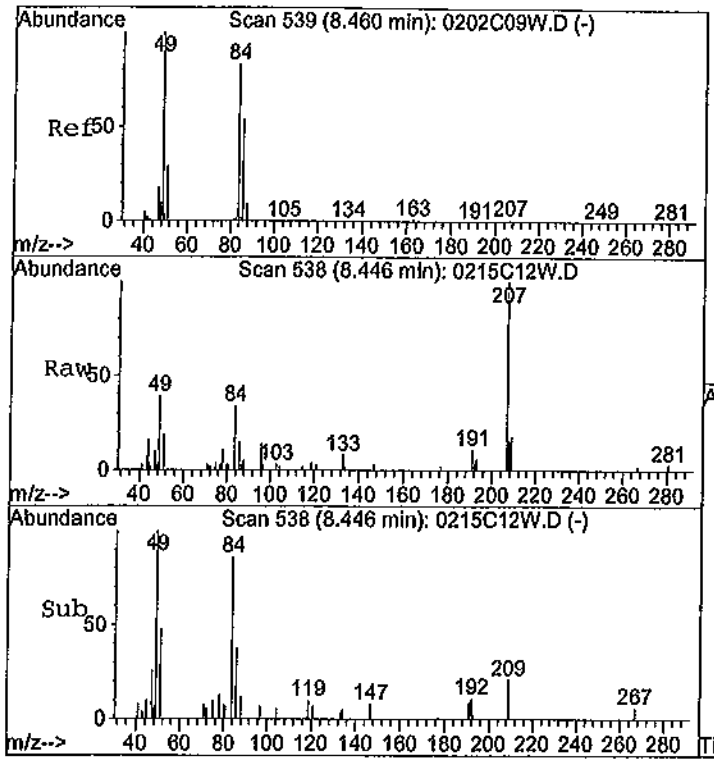
Data File : M:\CHICO\DATA\C120202\0215C12W.D
Acq On : 15 Feb 12 18:14
Sample : AY54765W01
Misc : Water 10mLw/ IS&S:01-30C&01-20

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 16 11:15 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Feb 16 10:23:35 2012
Response via : Initial Calibration

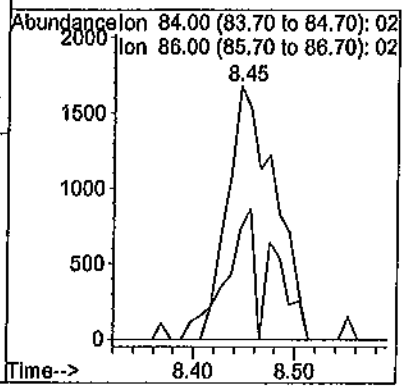


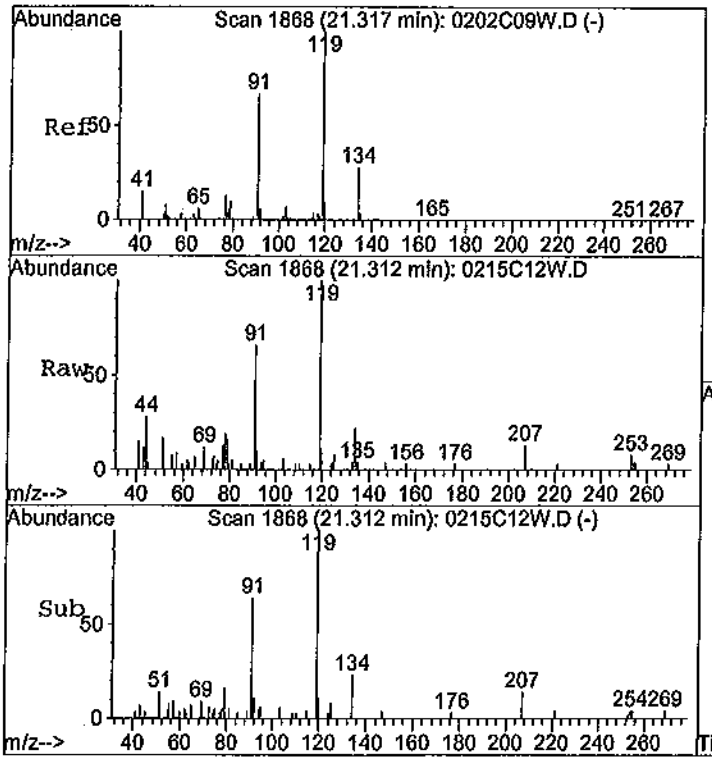


#19
Methylene chloride
Concen: 0.40624 ppb
RT: 8.45 min Scan# 538
Delta R.T. -0.01 min
Lab File: 0215C12W.D
Acq: 15 Feb 12 18:14

Tgt Ion: 84 Resp: 5611

Ion	Ratio	Lower	Upper
84	100		
86	43.9	45.3	84.1#

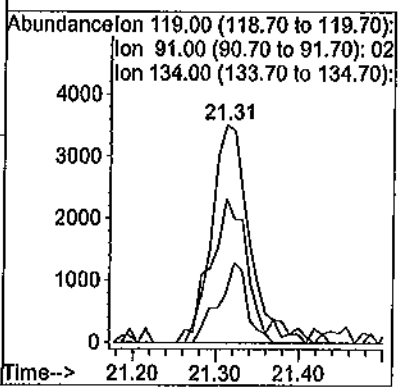




#82
Tert-Butylbenzene
Concen: 0.16794 ppb
RT: 21.31 min Scan# 1868
Delta R.T. -0.00 min
Lab File: 0215C12W.D
Acq: 15 Feb 12 18:14

Tgt Ion:119 Resp: 11073

Ion	Ratio	Lower	Upper
119	100		
91	66.0	47.2	87.6
134	22.4	19.5	36.1



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C12W.D Vial: 1
Acq On : 15 Feb 12 18:14 Operator: RS, ARS
Sample : AY54765W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 13:37 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	TIC	1050470	25.00000	ppb	0.02
3) Chlorobenzene-D5 (IS)	18.00	TIC	1066104	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.20	TIC	1050289	25.00000	ppb	0.02

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.47	TIC	22039058m	49.29638	ppb ND	100

No Gasoline Pattern
ARS 2/16/12

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

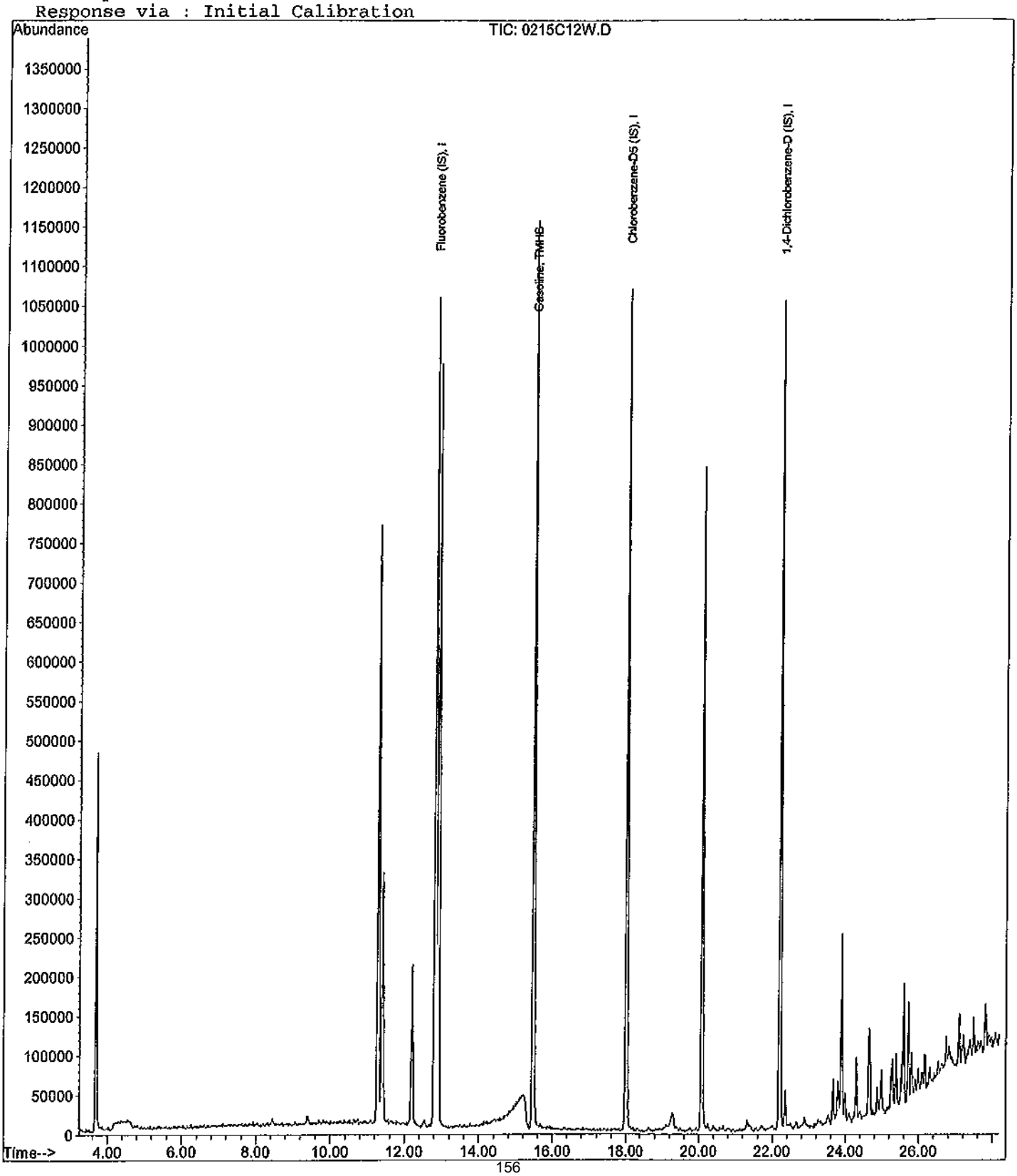
0215C12W.D CGAS.M Thu Feb 16 13:38:10 2012 Page 1

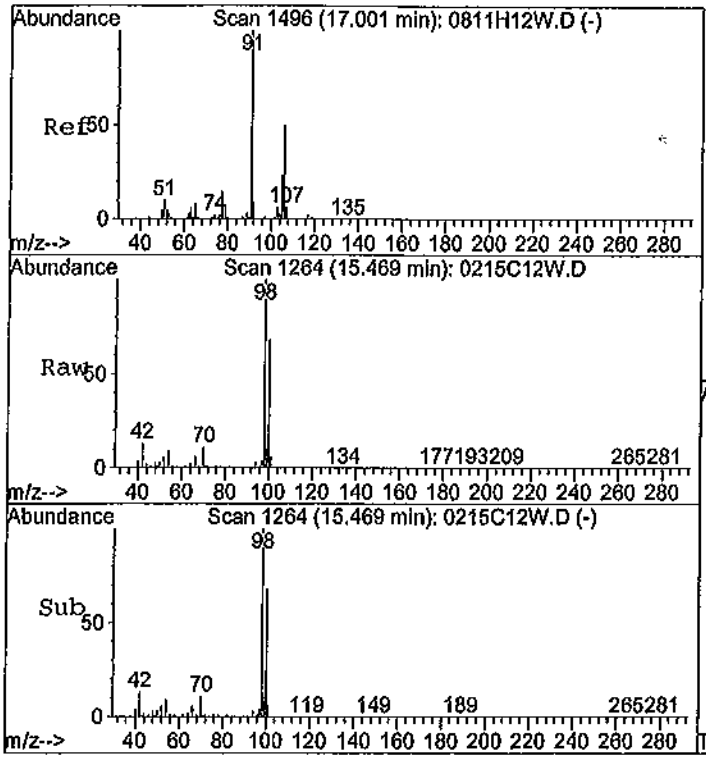
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C12W.D Vial: 1
Acq On : 15 Feb 12 18:14 Operator: RS, ARS
Sample : AY54765W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 13:37 2012 Quant Results File: CGAS.RES

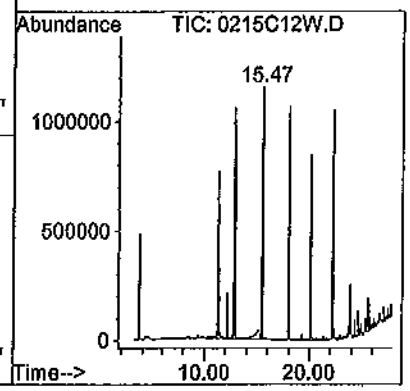
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration





#2
Gasoline
Concen: 49.29638 ppb m
RT: 15.47 min Scan# 1264
Delta R.T. -0.12 min
Lab File: 0215C12W.D
Acq: 15 Feb 12 18:14

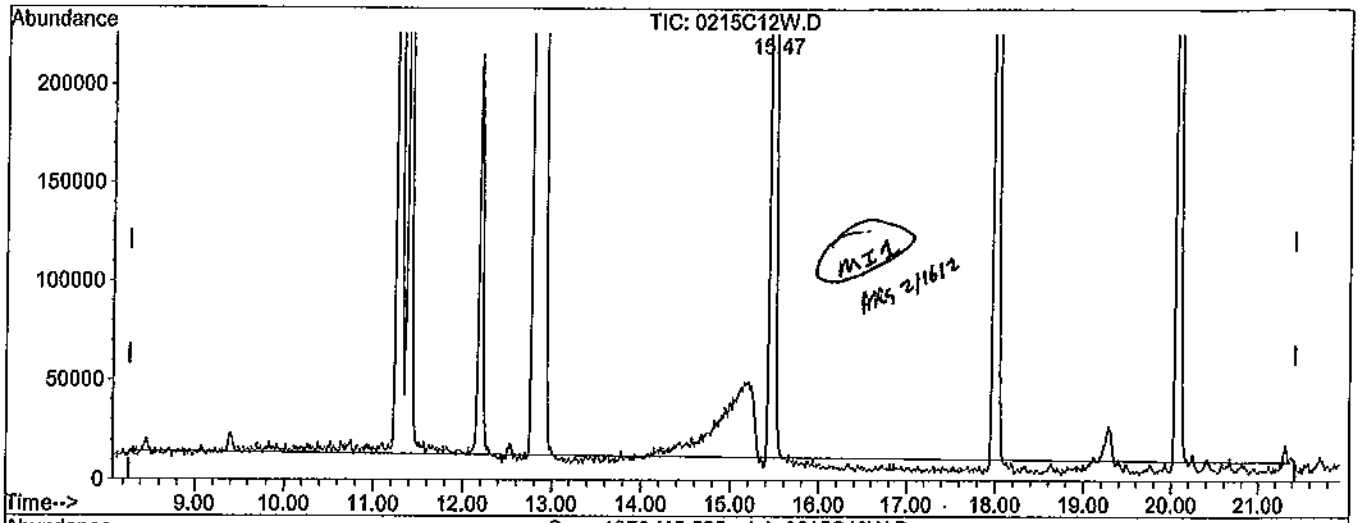
Tgt Ion:TIC Resp:22039058

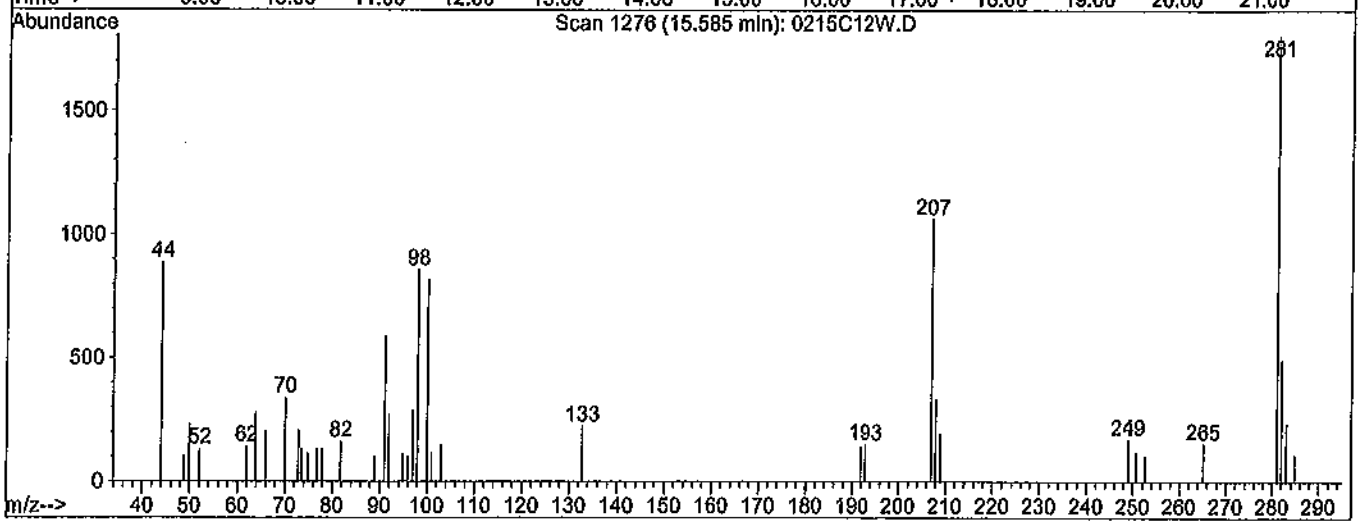


Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C12W.D Vial: 1
Acq On : 15 Feb 12 18:14 Operator: RS, ARS
Sample : AY54765W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 16 13:37 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0215C12W.D

(2) Gasoline (TMHB)

15.58min 15.4279ppb m

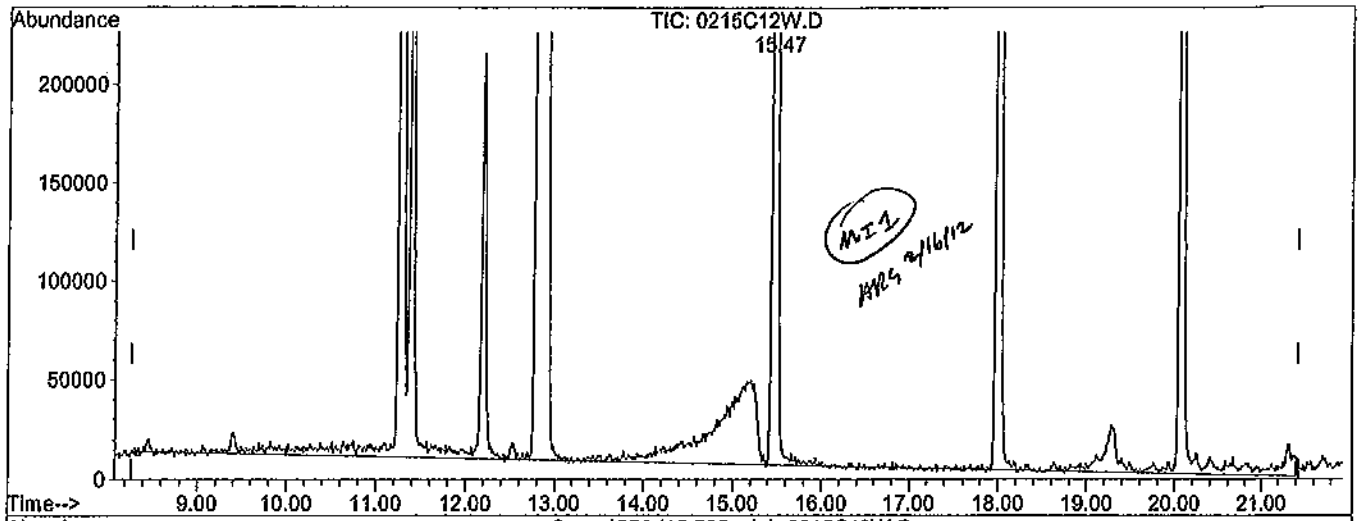
response 18947124

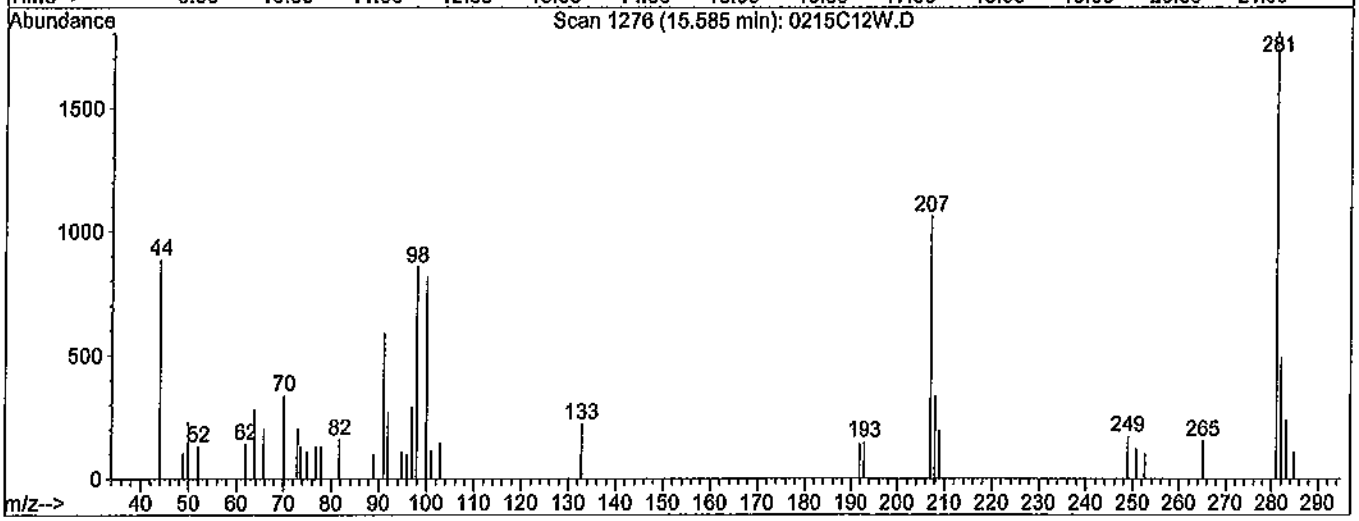
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.57#
0.00	0.00	1.62#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C12W.D Vial: 1
Acq On : 15 Feb 12 18:14 Operator: RS, ARS
Sample : AY54765W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 16 13:37 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0215C12W.D

(2) Gasoline (TMHB)

15.47min 49.2964ppb m

response 22039058

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.49#
0.00	0.00	1.40#
0.00	0.00	0.00

EPA 8260B VOCS + GAS WATER

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

Attn: Max Solmssen

Project: RED HILL/1022-015

Sample ID: ES069

Sample Collection Date: 02/14/12

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66972

APPL ID: AY54765

QCG: #86RHB-120216AC-164032

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	METHYLENE CHLORIDE	0.59 B J	5.0	0.70	0.35	ug/L	02/16/12	02/16/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	110	70-120			%	02/16/12	02/16/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	97.6	75-120			%	02/16/12	02/16/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	105	85-115			%	02/16/12	02/16/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	86.5	85-120			%	02/16/12	02/16/12

J = Estimated value.
B = The analyte was found in a method blank, as well as in the sample.

Quant Method: CALLW.M
Run #: 0216C14
Instrument: Chico
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/21/12 4:11:24 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0216C14W.D Vial: 1
Acq On : 16 Feb 12 16:54 Operator: RS, ARS
Sample : AY54765W02 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 17 8:49 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	96	497736	25.00000 ppb	-0.03
54) Chlorobenzene-D5 (IS)	17.98	117	390656	25.00000 ppb	-0.03
70) 1,4-Dichlorobenzene-D (IS)	22.18	152	205376	25.00000 ppb	-0.03
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.38	111	315998	23.51250 ppb	-0.03
Spiked Amount 22.441			Recovery = 104.775%		
37) 1,2-DCA-D4(S)	12.18	65	227009	23.93485 ppb	-0.03
Spiked Amount 21.710			Recovery = 110.249%		
55) Toluene-D8(S)	15.45	98	1212446	20.78677 ppb	-0.03
Spiked Amount 24.025			Recovery = 86.524%		
63) 4-Bromofluorobenzene(S)	20.05	95	492345	25.27508 ppb	-0.03
Spiked Amount 25.909			Recovery = 97.551%		
Target Compounds					Qvalue
19) Methylene chloride	8.44	84	7538	0.59258 ppb J, B	86
82) Tert-Butylbenzene	21.29	119	10125	0.15222 ppb NJT#	71

ARS 2/17/12

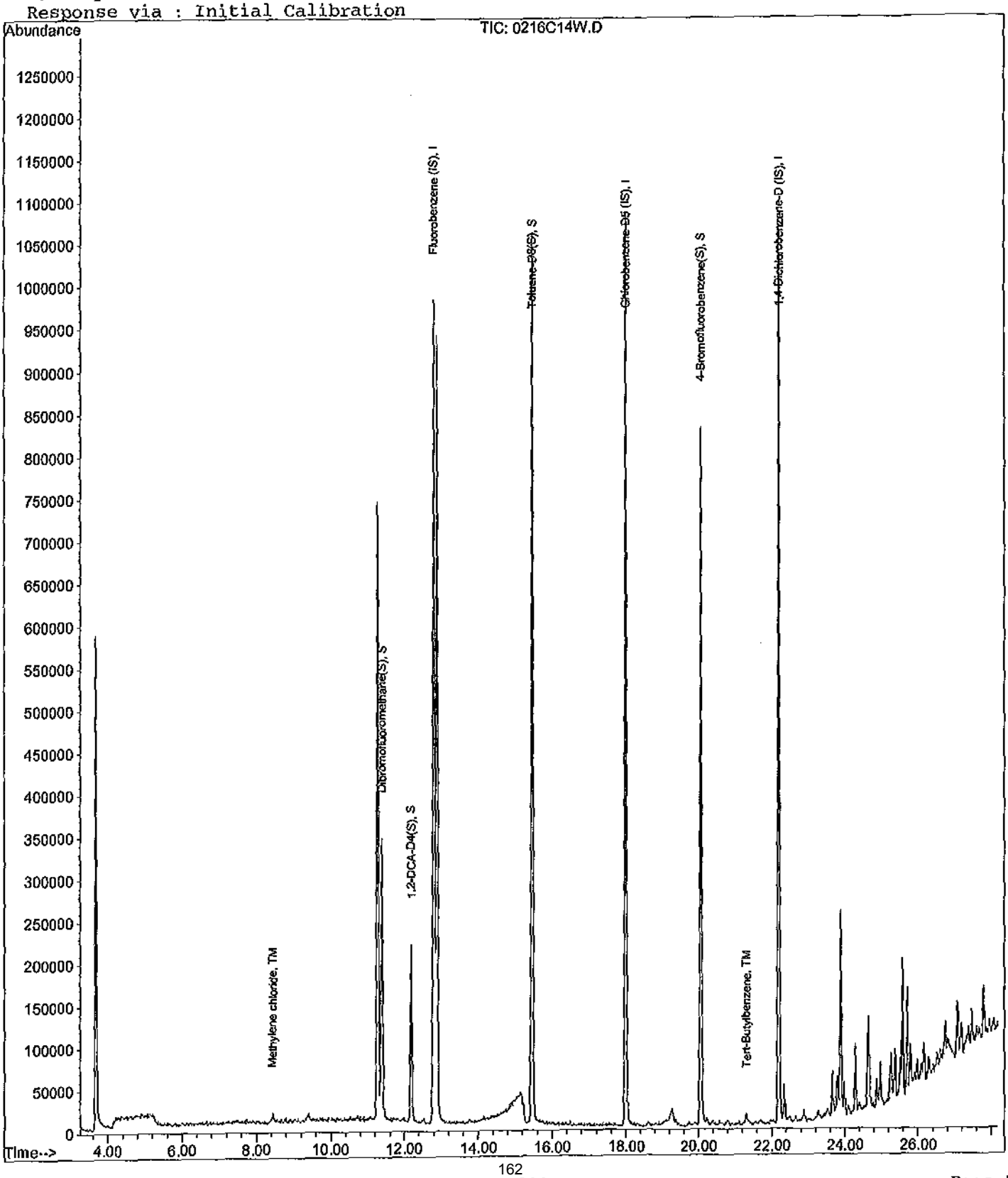
(#) = qualifier out of range (m) = manual integration

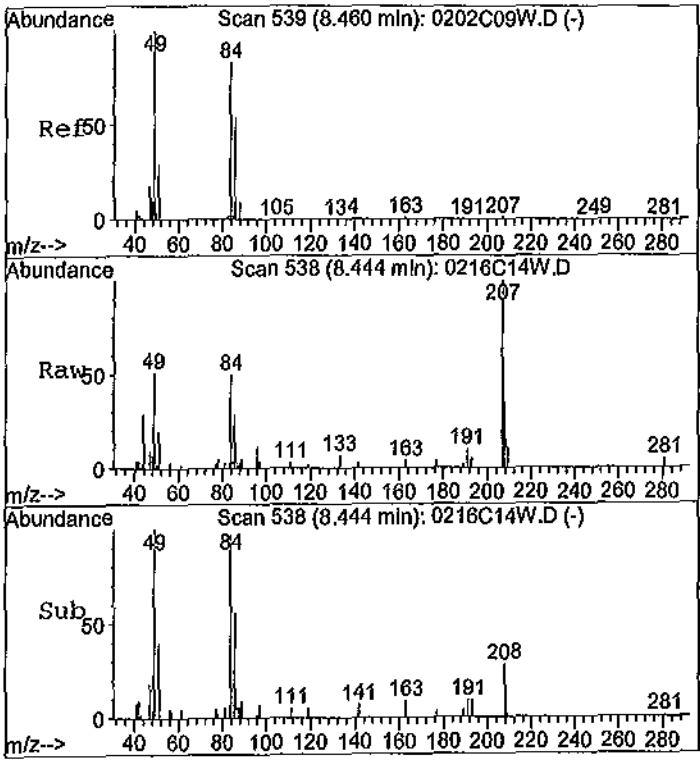
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0216C14W.D Vial: 1
Acq On : 16 Feb 12 16:54 Operator: RS, ARS
Sample : AY54765W02 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 17 8:49 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration

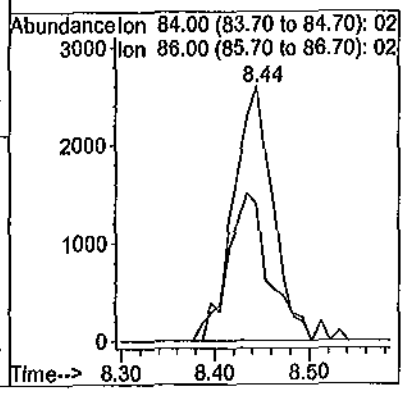


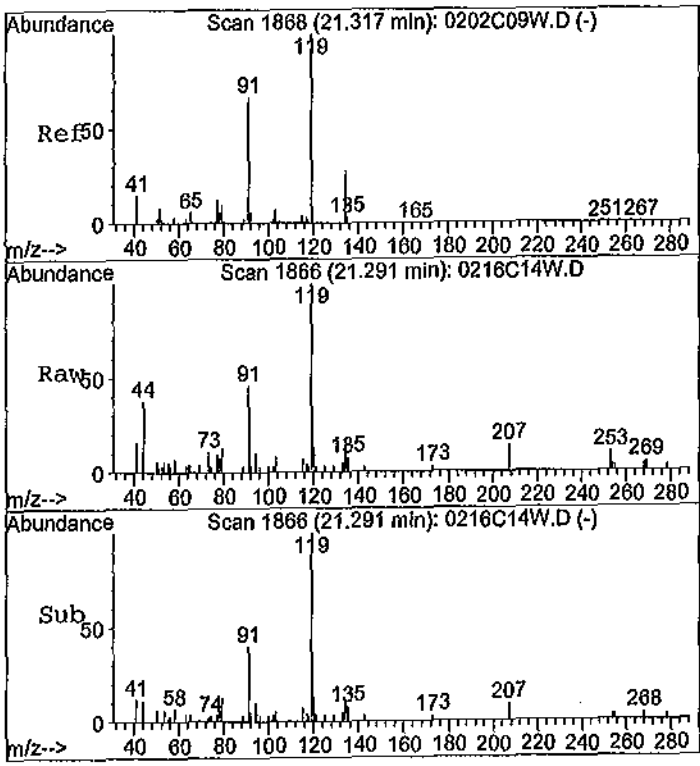


#19
Methylene chloride
Concen: 0.59258 ppb
RT: 8.44 min Scan# 538
Delta R.T. -0.02 min
Lab File: 0216C14W.D
Acq: 16 Feb 12 16:54

Tgt Ion: 84 Resp: 7538

Ion	Ratio	Lower	Upper
84	100		
86	54.0	45.3	84.1

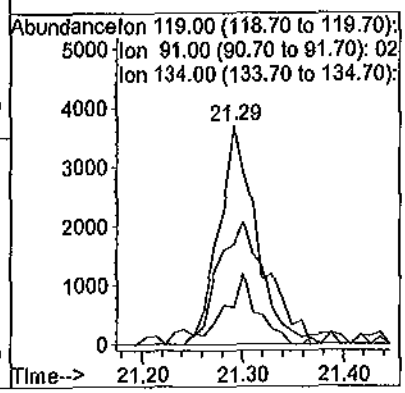




#82
Tert-Butylbenzene
Concen: 0.15222 ppb
RT: 21.29 min Scan# 1866
Delta R.T. -0.03 min
Lab File: 0216C14W.D
Acq: 16 Feb 12 16:54

Tgt Ion:119 Resp: 10125

Ion	Ratio	Lower	Upper
119	100		
91	40.9	47.2	87.6#
134	17.2	19.5	36.1#



EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen
Project: RED HILL/1022-015
Sample ID: TRIP BLANK
Sample Collection Date: 02/14/12

ARF: 66972
APPL ID: AY54766
QCG: #86RHB-120215AC-164031

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	02/15/12	02/15/12
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	02/15/12	02/15/12
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/15/12	02/15/12
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	02/15/12	02/15/12
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	02/15/12	02/15/12
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	02/15/12	02/15/12
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/15/12	02/15/12
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	02/15/12	02/15/12
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	02/15/12	02/15/12
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	02/15/12	02/15/12
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	02/15/12	02/15/12
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	02/15/12	02/15/12
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	02/15/12	02/15/12
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	02/15/12	02/15/12
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	02/15/12	02/15/12
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	02/15/12	02/15/12
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	02/15/12	02/15/12
EPA 8260B	GASOLINE	12.12 U MI1	20.0	12.12	6.06	ug/L	02/15/12	02/15/12
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	02/15/12	02/15/12
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	02/15/12	02/15/12

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
(MI1) Manual integration: Integration does not follow baseline.

Quant Method: CALLW.M
Run #: 0215C11
Instrument: Chico
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/22/12 2:28:33 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: Max Solmssen

Project: RED HILL/1022-015

ARF: 66972

Sample ID: TRIP BLANK

APPL ID: AY54766

Sample Collection Date: 02/14/12

QCG: #86RHB-120215AC-164031

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	02/15/12	02/15/12
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	02/15/12	02/15/12
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	101	70-120			%	02/15/12	02/15/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	97.7	75-120			%	02/15/12	02/15/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	98.0	85-115			%	02/15/12	02/15/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	91.3	85-120			%	02/15/12	02/15/12

U = The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
(MI1) Manual integration: Integration does not follow baseline.

Quant Method: CALLW.M
Run #: 0215C11
Instrument: Chico
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/22/12 2:28:33 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C11W.D Vial: 1
Acq On : 15 Feb 12 17:37 Operator: RS, ARS
Sample : AY54766W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 11:12 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Feb 16 10:23:35 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	96	549442	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	18.00	117	388480	25.00000 ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	203648	25.00000 ppb	0.00
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.40	111	326116	21.98183 ppb	0.00
Spiked Amount 22.441			Recovery = 97.953%		
37) 1,2-DCA-D4(S)	12.20	65	230113	21.97890 ppb	0.00
Spiked Amount 21.710			Recovery = 101.239%		
55) Toluene-D8(S)	15.47	98	1272469	21.93803 ppb	0.00
Spiked Amount 24.025			Recovery = 91.315%		
63) 4-Bromofluorobenzene(S)	20.08	95	490348	25.31356 ppb	0.00
Spiked Amount 25.909			Recovery = 97.702%		
Target Compounds					Qvalue
19) Methylene chloride	8.46	84	6141	0.43733 ppb B,J	78
25) Vinyl Acetate	9.40	43	1869	0.35340 ppb NT	89

out in CCV → RI

ARS 2/16/12

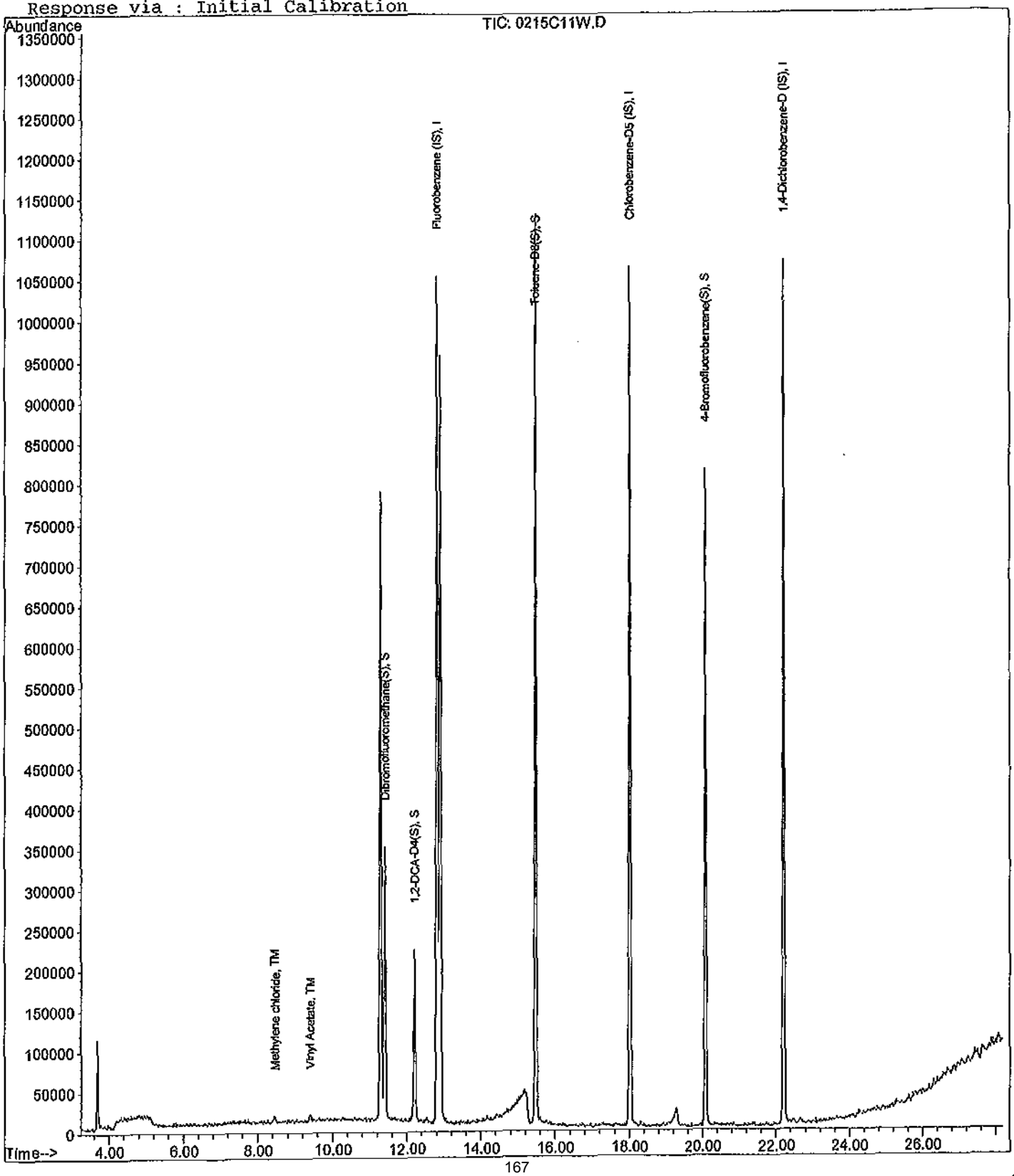
(#) = qualifier out of range (m) = manual integration
0215C11W.D CALLW.M Thu Feb 16 11:20:43 2012 Page 1

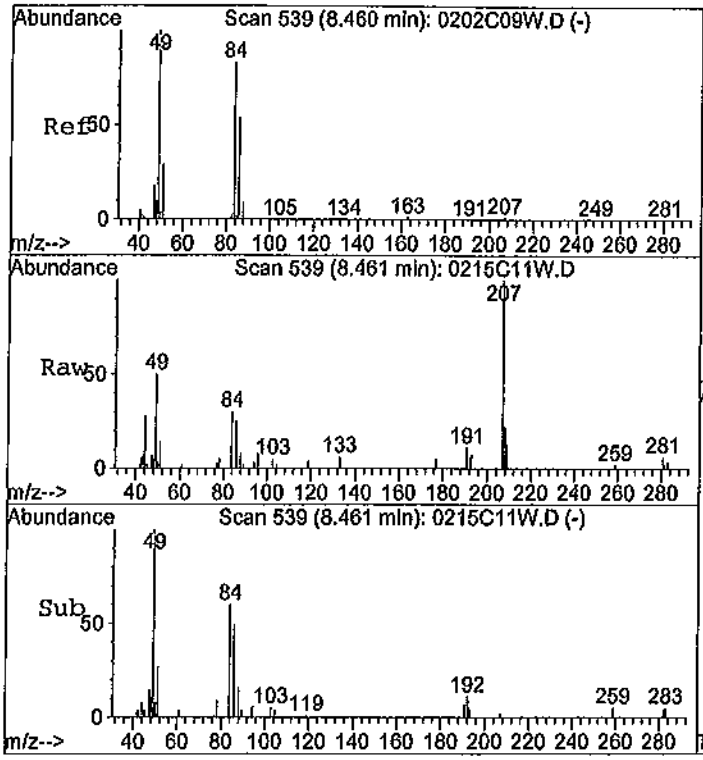
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C11W.D Vial: 1
Acq On : 15 Feb 12 17:37 Operator: RS, ARS
Sample : AY54766W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 11:12 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Feb 16 10:23:35 2012
Response via : Initial Calibration

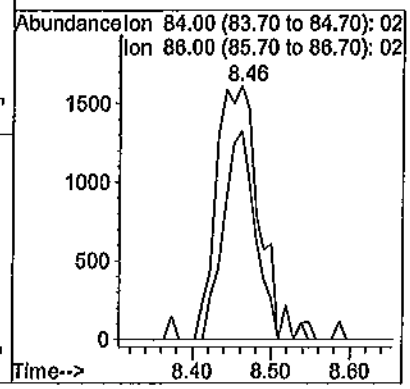


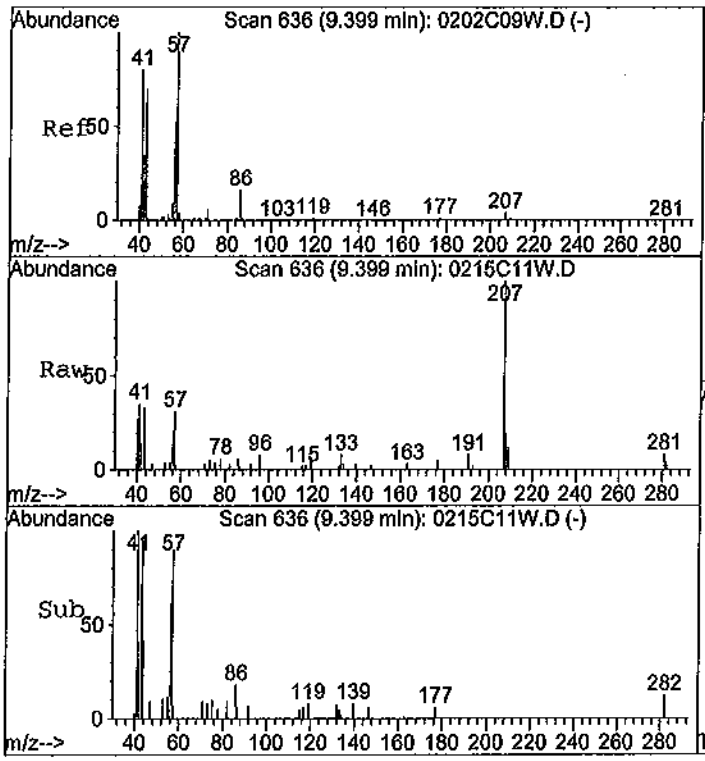


#19
Methylene chloride
Concen: 0.43733 ppb
RT: 8.46 min Scan# 539
Delta R.T. 0.00 min
Lab File: 0215C11W.D
Acq: 15 Feb 12 17:37

Tgt Ion: 84 Resp: 6141

Ion	Ratio	Lower	Upper
84	100		
86	82.2	45.3	84.1

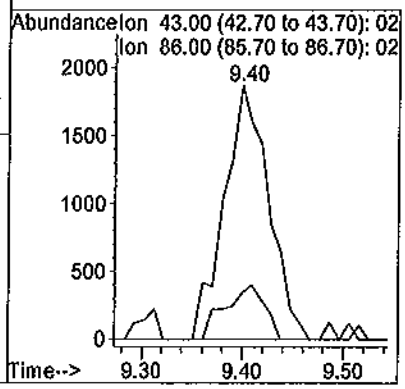




#25
Vinyl Acetate
Concen: 0.35340 ppb
RT: 9.40 min Scan# 636
Delta R.T. 0.00 min
Lab File: 0215C11W.D
Acq: 15 Feb 12 17:37

Tgt Ion: 43 Resp: 1869

Ion	Ratio	Lower	Upper
43	100		
86	18.3	16.5	30.7



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C11W.D Vial: 1
Acq On : 15 Feb 12 17:37 Operator: RS, ARS
Sample : AY54766W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 13:34 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	TIC	1045231	25.00000	ppb	0.03
3) Chlorobenzene-D5 (IS)	18.00	TIC	1060328	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.20	TIC	1065258	25.00000	ppb	0.02

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.47	TIC	21629365m	45.99620	ppb	ND 100

No Gasoline Pattern
ARC 2/16/12

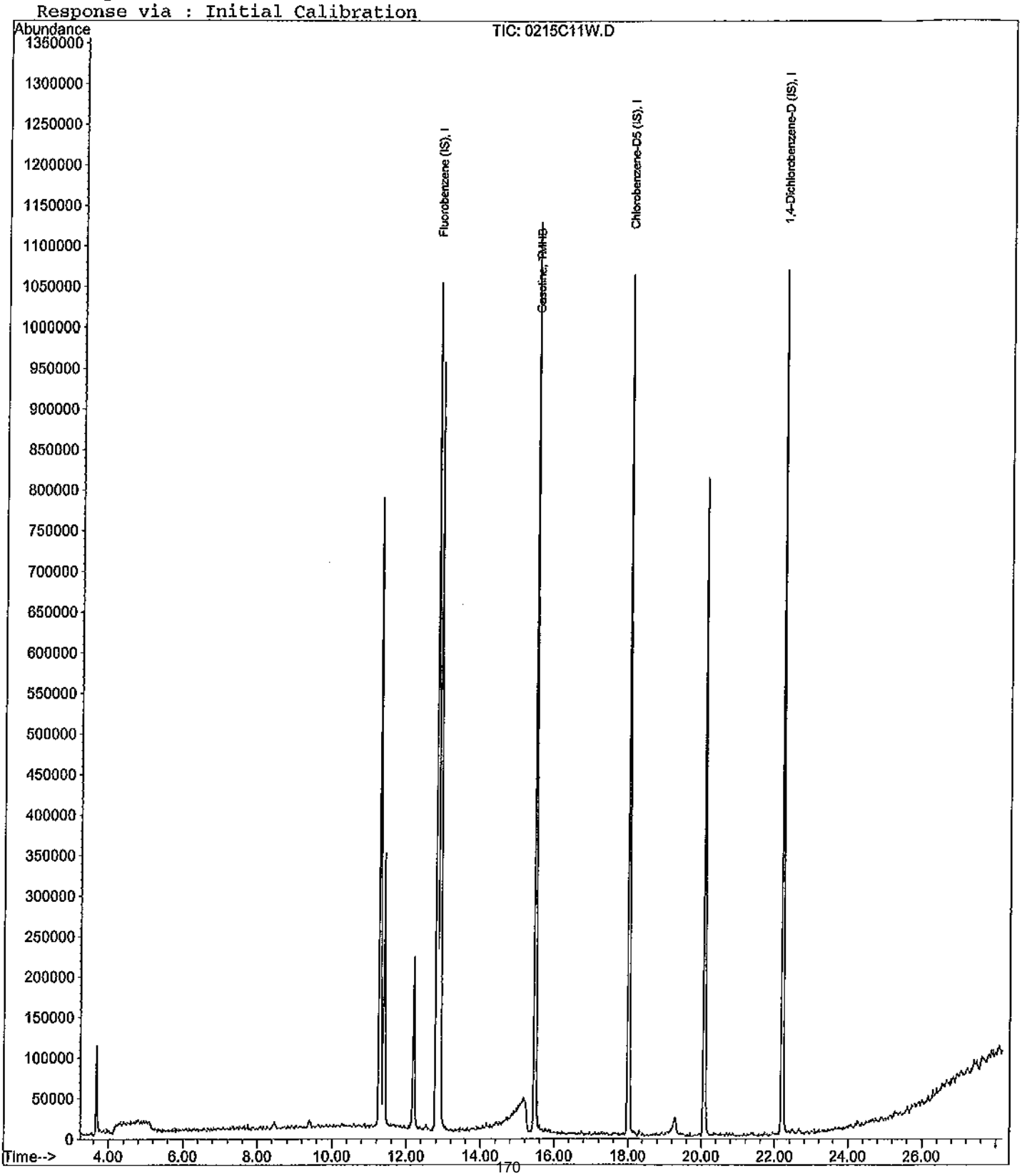
(#) = qualifier out of range (m) = manual integration
0215C11W.D CGAS.M Thu Feb 16 13:35:11 2012

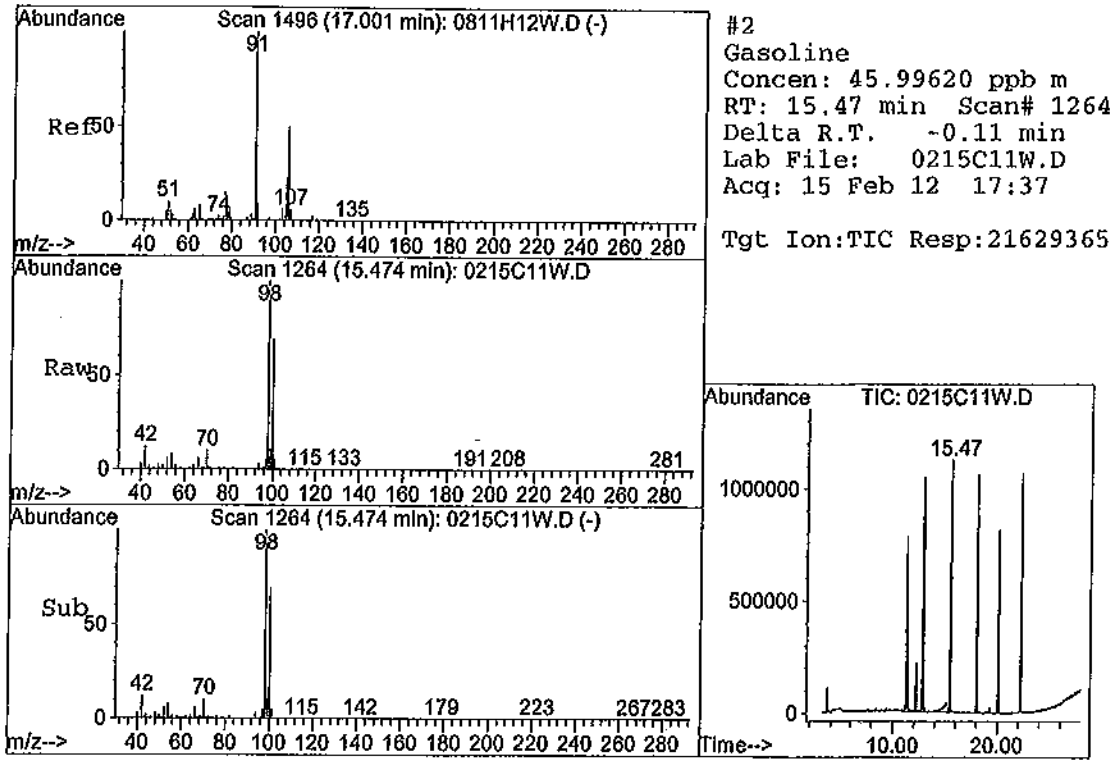
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C11W.D Vial: 1
Acq On : 15 Feb 12 17:37 Operator: RS, ARS
Sample : AY54766W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 13:34 2012 Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration





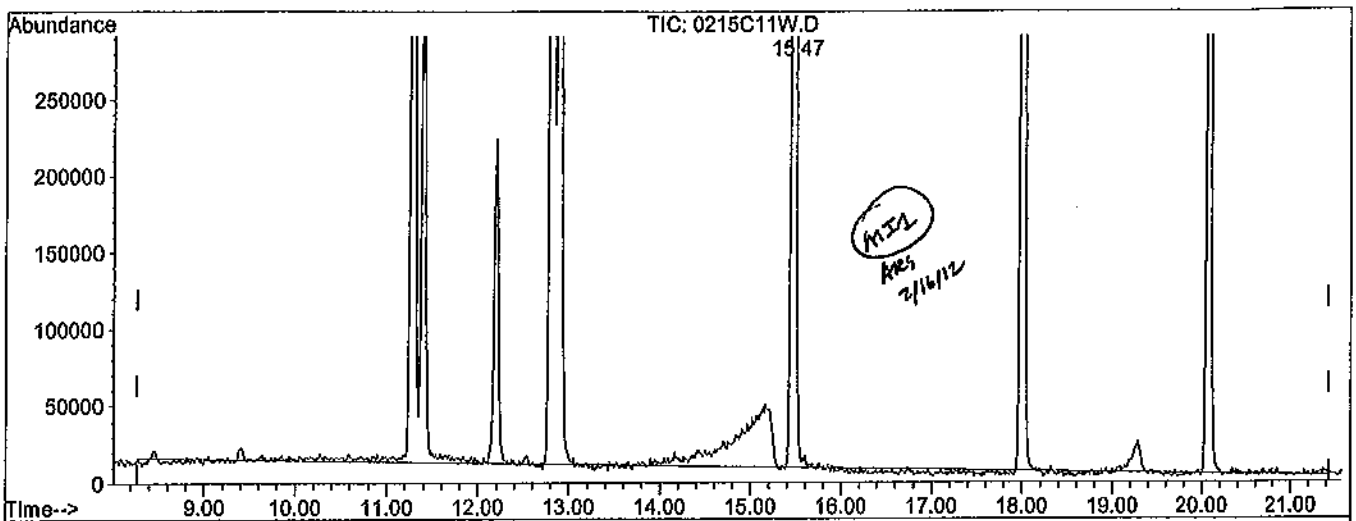
#2
Gasoline
Concen: 45.99620 ppb m
RT: 15.47 min Scan# 1264
Delta R.T. -0.11 min
Lab File: 0215C11W.D
Acq: 15 Feb 12 17:37

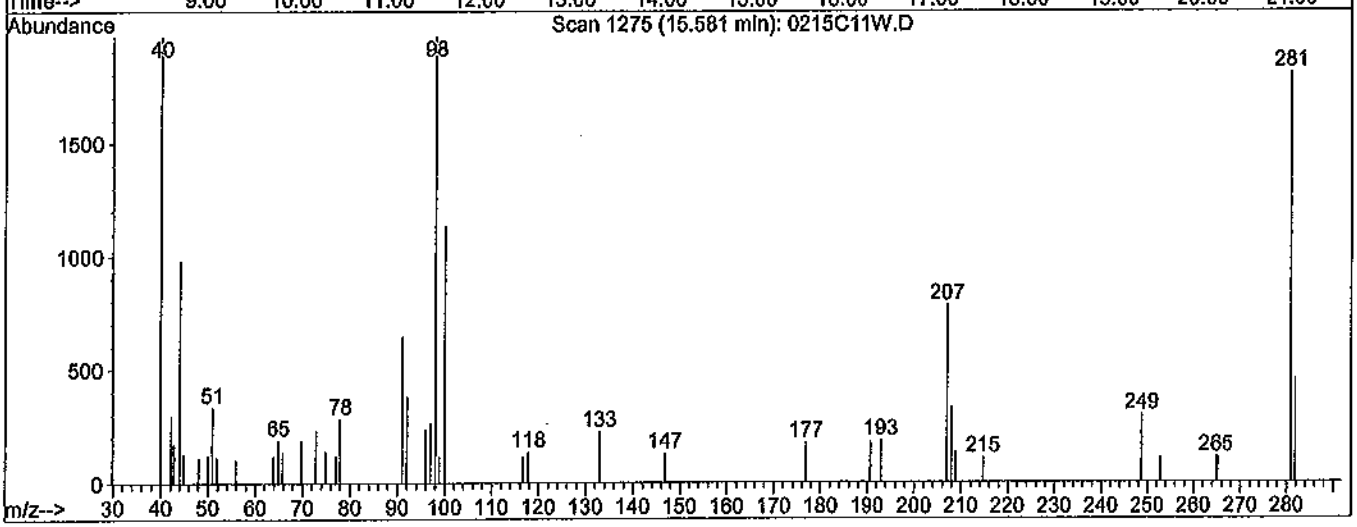
Tgt Ion:TIC Resp:21629365

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C11W.D Vial: 1
Acq On : 15 Feb 12 17:37 Operator: RS, ARS
Sample : AY54766W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 16 13:33 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0215C11W.D

(2) Gasoline (TMHB)

15.58min 0.0975ppb m

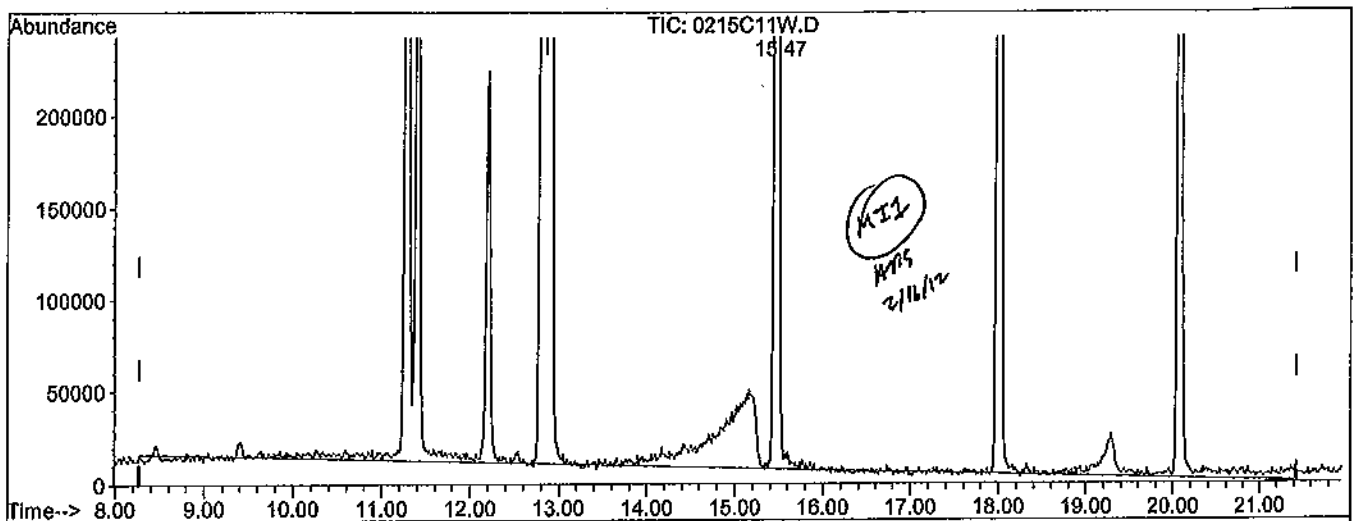
response 17460063

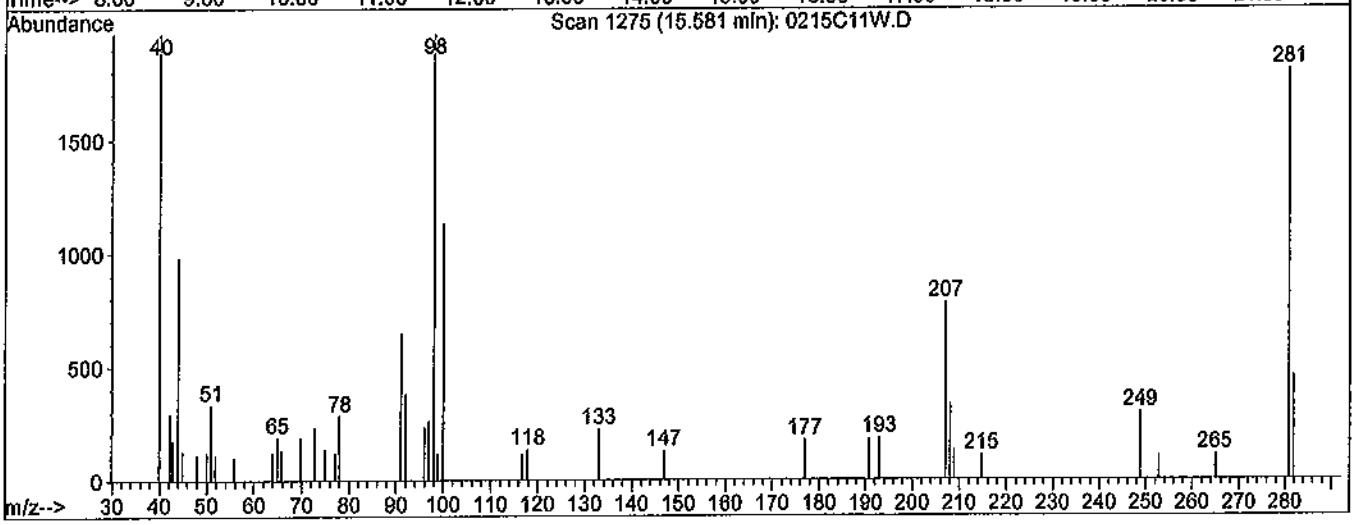
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.60#
0.00	0.00	1.79#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C11W.D Vial: 1
Acq On : 15 Feb 12 17:37 Operator: RS, ARS
Sample : AY54766W01 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 16 13:34 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0215C11W.D

(2) Gasoline (TMHB)

15.47min 45.9962ppb m

response 21629365

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.48#
0.00	0.00	1.44#
0.00	0.00	0.00

EPA 8260B VOCS + GAS WATER

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen

Project: RED HILL/1022-015

ARF: 66972

Sample ID: TRIP BLANK

APPL ID: AY54766

Sample Collection Date: 02/14/12

QCG: #86RHB-120216AC-164032

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	METHYLENE CHLORIDE	0.58 B J	5.0	0.70	0.35	ug/L	02/16/12	02/16/12
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	108	70-120			%	02/16/12	02/16/12
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	97.1	75-120			%	02/16/12	02/16/12
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	105	85-115			%	02/16/12	02/16/12
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	87.6	85-120			%	02/16/12	02/16/12

J = Estimated value.
B = The analyte was found in a method blank, as well as in the sample.

Quant Method: CALLW.M
Run #: 0216C15
Instrument: Chico
Sequence: C120202
Dilution Factor: 1
Initials: ARS

Printed: 02/21/12 4:11:24 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0216C15W.D Vial: 1
Acq On : 16 Feb 12 17:31 Operator: RS, ARS
Sample : AY54766W02 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 17 8:51 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	96	513080	25.00000 ppb	-0.03
54) Chlorobenzene-D5 (IS)	17.98	117	391552	25.00000 ppb	-0.03
70) 1,4-Dichlorobenzene-D (IS)	22.18	152	207616	25.00000 ppb	-0.03
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.38	111	327812	23.66210 ppb	-0.03
Spiked Amount 22.441			Recovery = 105.439%		
37) 1,2-DCA-D4(S)	12.18	65	228600	23.38179 ppb	-0.03
Spiked Amount 21.710			Recovery = 107.702%		
55) Toluene-D8(S)	15.46	98	1229958	21.03875 ppb	-0.02
Spiked Amount 24.025			Recovery = 87.573%		
63) 4-Bromofluorobenzene(S)	20.05	95	490960	25.14631 ppb	-0.03
Spiked Amount 25.909			Recovery = 97.054%		
Target Compounds					Qvalue
19) Methylene chloride	8.43	84	7627	0.58165 ppb J,B	90

ARS 2/17/12

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

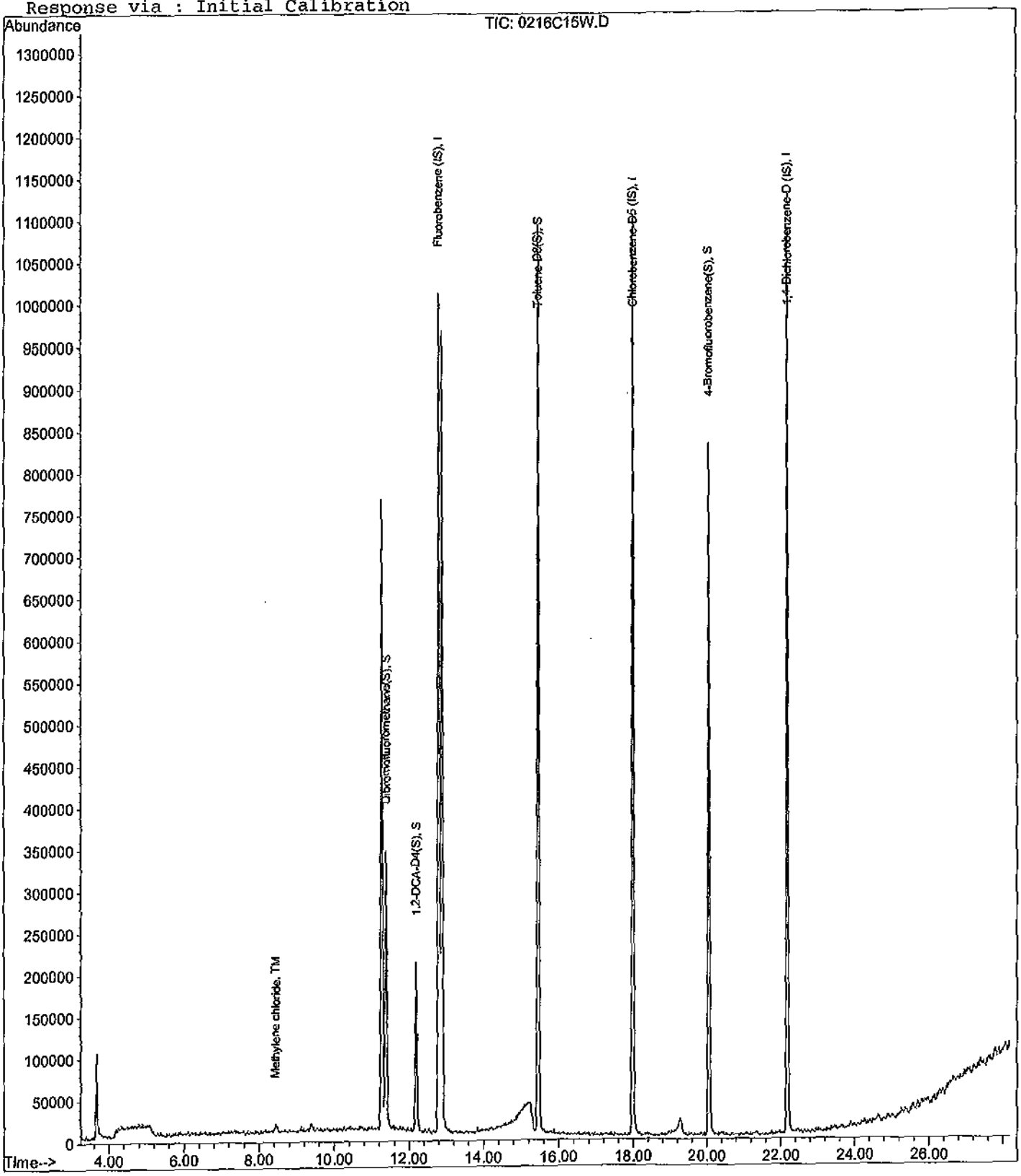
Quantitation Report

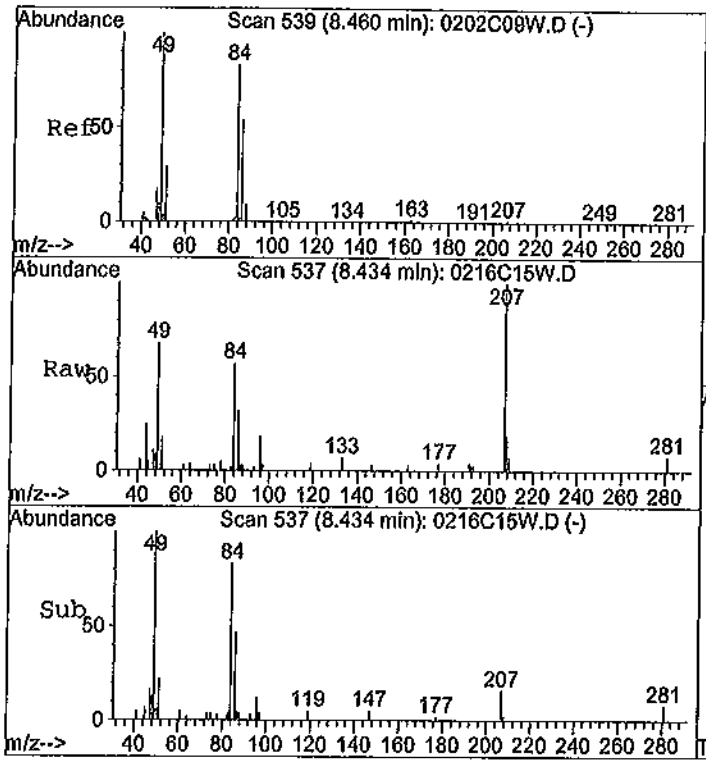
Data File : M:\CHICO\DATA\C120202\0216C15W.D
Acq On : 16 Feb 12 17:31
Sample : AY54766W02
Misc : Water 10mLw/ IS&S:01-30C&01-20

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 17 8:51 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration

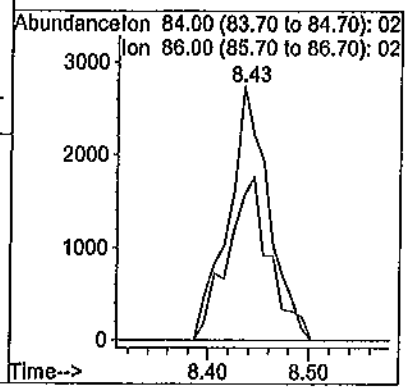




#19
Methylene chloride
Concen: 0.58165 ppb
RT: 8.43 min Scan# 537
Delta R.T. -0.03 min
Lab File: 0216C15W.D
Acq: 16 Feb 12 17:31

Tgt Ion: 84 Resp: 7627

Ion	Ratio	Lower	Upper
84	100		
86	57.0	45.3	84.1



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: 66972
Case No: Initial Cal. Date: 02/02/12
Matrix: Water Instrument: Chico Initials:

		Compound	0202C05W.D 0.3	0202C06W.D 0.5	0202C07W.D 1	0202C08W.D 5	0202C09W.D 10	0202C10W.D 40	0202C11W.D 100	0202C12W.D 200			Avg	%RSD		r2
1	I	Fluorobenzene (IS)														
2	TM	Dichlorodifluoromethane		0.8010	0.8393	0.8187	0.6389	0.9181	0.8532	0.7687			0.81	11	TM	
3	TM	Freon 114		0.6593	0.5769	0.5111	0.5915	0.5802	0.5515	0.5042			0.57	9.3	TM	
4	TM**	Chloromethane		0.3654	0.4186	0.3445	0.3081	0.3201	0.3429	0.3088			0.34	11	TM**	
5	TM*	Vinyl chloride		0.3159	0.2713	0.2783	0.2603	0.2098	0.1547				0.25	23	TM*	
6	TM	Bromomethane		0.2240	0.1781	0.1988	0.1987	0.2102	0.1927	0.1753			0.20	8.7	TM	
7	TML	Chloroethane		0.2187	0.1934	0.1745	0.1567	0.1533	0.1465				0.17	16	TML	1.000
8	TM	Dichlorofluoromethane	1.550	1.696	1.556	1.633	1.626	1.539	1.441	1.350			1.5	7.2	TM	
9	TM	Trichlorofluoromethane	0.2069	0.2348	0.2197	0.2099	0.1672	0.1981	0.1911	0.1653			0.20	12	TM	
10		Acetonitrile	0.0261	0.0191	0.0203	0.0213	0.0217	0.0213	0.0201	0.0187			0.02	11		
11	TM	Acrolein	0.0378	0.0325	0.0326	0.0295	0.0320	0.0320	0.0322	0.0300			0.03	7.7	TM	
12	TML	Acetone			0.0845	0.0562	0.0490	0.0436	0.0437	0.0414			0.05	31	TML	0.999
13	TM	Freon-113		0.6738	0.6882	0.6389	0.6607	0.6660	0.6546	0.5936			0.65	4.7	TM	
14	TM*	1,1-DCE		0.9339	0.8342	0.6670	0.6961	0.7016	0.6869	0.6481			0.74	14	TM*	
15	TM	t-Butanol	0.0021	0.0018	0.0021	0.0022	0.0020	0.0021	0.0020				0.00	6.8	TM	
16	TML	Methyl Acetate		0.3218	0.2948	0.1800	0.1812	0.1896	0.1780	0.1680			0.22	29	TML	0.999
17	TML	Iodomethane		0.7911	0.9412	1.126	1.201	1.258	1.290	1.213			1.1	16	TML	0.999
18	TM	Acrylonitrile		0.0681	0.0647	0.0693	0.0678	0.0693	0.0656	0.0625			0.07	3.8	TM	
19	TM	Methylene chloride				0.6958	0.6861	0.6331	0.6093	0.5703			0.64	8.2	TM	
20	TM	Carbon disulfide	0.8320	0.8014	0.7526	0.7475	0.7948	0.7798	0.6586				0.77	7.3	TM	
21	TM	Methyl t-butyl ether (MtBE)		1.134	0.9190	0.9734	0.9566	0.9234	0.8711	0.8148			0.94	11	TM	
22	TM	Trans-1,2-DCE		0.9953	0.9526	0.8149	0.8510	0.8304	0.8017	0.7518			0.86	10	TM	
23	TM	Diisopropyl Ether		2.156	1.999	2.223	2.085	1.976	1.882	1.723			2.0	8.4	TM	
24	TM**	1,1-DCA	1.517	1.454	1.251	1.332	1.333	1.273	1.205	1.125			1.3	9.8	TM**	
25	TML	Vinyl Acetate		0.2244	0.1957	0.1148	0.1294	0.1182	0.1194				0.15	32	TML	1.000
26	TM	Ethyl tert Butyl Ether		1.439	1.336	1.501	1.447	1.402	1.315	1.205			1.4	7.2	TM	
27	TM	MEK (2-Butanone)			0.0643	0.0528	0.0528	0.0556	0.0501	0.0444			0.05	12	TM	
28	TML	Cis-1,2-DCE		1.354	1.083	0.8547	0.8404	0.8196	0.7803	0.7258			0.92	24	TML	0.999
29	TM	2,2-Dichloropropane	1.202	1.254	1.074	1.077	1.084	1.045	0.9710	0.9089			1.1	10	TM	
30	TM*	Chloroform	0.9130	0.7656	0.7382	0.8435	0.8160	0.7984	0.7617	0.7192			0.79	7.9	TM*	
31	TM	Bromochloromethane	0.3697	0.2445	0.2470	0.2856	0.2834	0.2888	0.2782	0.2523			0.28	14	TM	
32	S	Dibromofluoromethane(S)		0.6874	0.6817	0.6949	0.6505	0.6717	0.6642				0.68	2.4	S	
33	TM	1,1,1-TCA		1.122	1.125	1.165	1.142	1.156	1.105	1.023			1.1	4.2	TM	
34	TM	Cyclohexane		1.278	1.154	1.097	1.137	1.150	1.148	1.064			1.1	5.8	TM	
35	TM	1,1-Dichloropropene	0.9559	1.051	1.039	0.9474	0.9841	0.9489	0.9330	0.8709			0.97	6.0	TM	

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66972
Case No: Initial Cal. Date: 02/02/12
Matrix: Water Instrument: Chico Initials:

		Compound	0.3	0.5	1	5	10	40	100	200			Avg	%RSD		r2
36	TM	2,2,4-Trimethylpentane			1.942	1.743	1.883	1.795	1.860	1.732			1.8	4.6	TM	
37	S	1,2-DCA-D4(S)		0.5296	0.4795	0.4821	0.4582	0.4643	0.4446				0.48	6.2	S	
38	TM	Carbon Tetrachloride	0.9462	0.8804	0.9294	0.9843	0.9768	0.9912	0.9715	0.9099			0.95	4.2	TM	
39	TM	Tert Amyl Methyl Ether	1.244	1.300	1.193	1.191	1.098	1.068	1.025	0.9331			1.1	11	TM	
40	TM	1,2-DCA	0.5752	0.5403	0.5565	0.5597	0.5704	0.5299	0.4976	0.4583			0.54	7.5	TM	
41	TM	Benzene	3.625	3.293	3.171	2.956	3.015	2.848	2.792	2.645			3.0	10	TM	
42	TM	TCE		0.7828	0.7743	0.8566	0.8363	0.8017	0.7708	0.7053			0.79	6.2	TM	
43	TM	2-Pentanone	0.1499	0.1220	0.1303	0.1309	0.1279	0.1375	0.1332	0.1264			0.13	6.4	TM	
44	TM*	1,2-Dichloropropane	0.8965	0.6708	0.6354	0.6676	0.6473	0.6265	0.6086				0.68	14	TM*	✓
45	TM	Bromodichloromethane		0.6725	0.6244	0.7657	0.7550	0.7498	0.7279	0.6828			0.71	7.4	TM	
46	TM	Methyl Cyclohexane	1.019	1.125	1.067	0.9610	1.008	1.015	1.023	0.9501			1.0	5.5	TM	
47	TM	Dibromomethane		0.2788	0.2154	0.2825	0.2842	0.2796	0.2696	0.2487			0.27	9.5	TM	
48	TM	2-Chloroethyl vinyl ether		0.2134	0.1791	0.1698	0.1729	0.1833	0.1768	0.1681			0.18	8.6	TM	
49	TM	1-Bromo-2-chloroethane		0.4544	0.4584	0.5387	0.5444	0.5186	0.4976	0.4647			0.50	7.7	TM	
50	TM	Cis-1,3-Dichloropropene		0.8490	0.8944	0.8887	0.8562	0.8648	0.8378	0.7815			0.85	4.4	TM	
51	TM*	Toluene		3.383	3.141	3.308	3.154	3.005	2.904	2.702			3.1	7.6	TM*	✓
52	TM	Trans-1,3-Dichloropropene	0.6036	0.5938	0.5199	0.5927	0.5981	0.6116	0.5921	0.5471			0.58	5.4	TM	
53	TM	1,1,2-TCA	0.2722	0.2576	0.2641	0.2899	0.2885	0.2957	0.2733	0.2499			0.27	6.0	TM	
54	⚓	Chlorobenzene-D5 (IS)														
55	S	Toluene-D8(S)		4.105	3.972	3.889	3.548	3.494	3.389				3.7	7.9	S	
56	TM	1,2-EDB	0.4941	0.4821	0.4347	0.5107	0.4793	0.4899	0.4566	0.4620			0.48	5.1	TM	
57	TM	Tetrachloroethene		1.010	1.118	1.112	1.070	1.021	0.9709	0.9891			1.0	5.6	TM	
58	TM	1-Chlorohexane	1.527	1.666	1.642	1.600	1.530	1.526	1.461	1.474			1.6	4.8	TM	
59	TM	1,1,1,2-Tetrachloroethane		0.7739	0.7488	0.9112	0.8671	0.8718	0.8244	0.8384			0.83	6.8	TM	
60	TM	m&p-Xylene	2.096	2.053	1.941	2.057	1.931	1.860	1.755	2.104			2.0	6.3	TM	
61	TM	o-Xylene		1.953	1.799	1.971	1.891	1.821	1.690	1.693			1.8	6.2	TM	
62	TM	Styrene	2.787	2.882	2.442	2.851	2.779	2.723	2.537	2.516			2.7	6.2	TM	
63	S	4-Bromofluorobenzene(S)		1.362	1.380	1.267	1.173	1.164	1.133				1.2	8.5	S	
64	TM	2-Hexanone		0.1803	0.1759	0.1521	0.1492	0.1670	0.1595	0.1649			0.16	7.0	TM	
65	TM	1,3-Dichloropropane	0.9499	0.9071	0.8109	0.8691	0.8434	0.8633	0.7953	0.7947			0.85	6.5	TM	
66	TM	Dibromochloromethane	0.6065	0.5317	0.5217	0.6290	0.6115	0.6548	0.6439	0.6592			0.61	8.8	TM	
67	TM**	Chlorobenzene	2.914	2.884	2.633	2.838	2.717	2.608	2.470	2.500			2.7	6.3	TM**	✓
68	TM*	Ethylbenzene	5.386	5.585	4.955	5.220	4.947	4.768	4.581	4.591			5.0	7.3	TM*	✓
69	TM**	Bromoform		0.2896	0.2769	0.2952	0.3090	0.3611	0.3643	0.3717			0.32	12	TM**	✓
70	I	1,4-Dichlorobenzene-D (IS)														

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66972
Case No: Initial Cal. Date: 02/02/12
Matrix: Water Instrument: Chico Initials:

		Compound	0.3	0.5	1	5	10	40	100	200			Avg	%RSD		r2
71	TML	MIBK (methyl isobutyl ketone)	0.7680	0.9556	0.6923	0.5412	0.5350	0.5103	0.5433	0.5446			0.64	25	TML	1.000
72	TM	Isopropylbenzene	9.579	9.889	9.296	10.3	9.750	8.395	8.624	8.793			9.3	7.2	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.7395	0.8218	0.7158	0.8453	0.8463	0.7828	0.8186	0.8289			0.80	6.1	TM**	
74	TML	1,2,3-Trichloropropane	0.0990	0.1228	0.1294	0.0849	0.0885	0.0772	0.0784	0.0809			0.10	21	TML	1.000
75	TM	t-1,4-Dichloro-2-Butene		0.2376	0.2044	0.1939	0.2018	0.1968	0.1975	0.2008			0.20	7.3	TM	
76	TM	Bromobenzene	2.708	2.628	2.170	2.432	2.213	1.961	1.984	2.006			2.3	13	TM	
77	TM	n-Propylbenzene	12.2	12.4	11.5	12.4	11.6	10.3	10.4	10.3			11	8.3	TM	
78	TM	4-Ethyltoluene	6.898	7.131	6.694	7.258	6.698	6.186	6.029	6.420			6.7	6.5	TM	
79	TM	2-Chlorotoluene	8.475	8.413	7.459	7.844	7.120	6.334	6.514	6.348			7.3	12	TM	
80	TM	1,3,5-Trimethylbenzene		8.465	7.393	8.082	7.750	6.685	6.997	6.868			7.5	8.9	TM	
81	TM	4-Chlorotoluene	6.945	7.092	6.247	6.808	6.633	5.740	5.685	5.883			6.4	8.8	TM	
82	TM	Tert-Butylbenzene	8.690	9.171	8.069	8.771	8.140	7.277	7.284	7.369			8.1	9.1	TM	
83	TM	1,2,4-Trimethylbenzene	8.116	8.005	7.735	8.300	7.738	6.803	6.951	7.018			7.6	7.6	TM	
84	TM	Sec-Butylbenzene	10.8	11.5	10.1	11.2	10.5	9.420	9.620	9.661			10	7.5	TM	
85	TM	p-Isopropyltoluene		9.001	8.514	9.068	8.479	7.614	7.818	7.824			8.3	7.1	TM	
86	TM	Benzyl Chloride		1.593	1.229	1.519	1.350	1.421	1.445	1.425			1.4	8.2	TM	
87	TM	1,3-DCB	4.513	5.082	4.271	4.691	4.370	3.884	3.863	3.910			4.3	10	TM	
88	TM	1,4-DCB	4.412	4.512	3.956	4.254	4.054	3.667	3.654	3.640			4.0	8.7	TM	
89	TML	Hexachloroethane		0.9462	0.9818	1.665	1.639	1.802	1.819	1.833			1.5	26	TML	1.000
90	TM	n-Butylbenzene		8.413	7.230	7.937	7.501	6.722	6.832	6.817			7.4	8.7	TM	
91	TM	1,2-DCB	3.917	4.001	3.335	3.678	3.594	3.180	3.098	3.059			3.5	11	TM	
92	TM	1,2-Dibromo-3-chloropropane			0.1400	0.1363	0.1440	0.1232	0.1236	0.1302			0.13	6.5	TM	
93	TM	1,2,4-Trichlorobenzene		1.188	0.9583	1.069	0.9948	0.9482	0.9317	0.8908			1.00	10	TM	
94	TML	Hexachlorobutadiene	1.565	2.402	1.354	1.293	1.108	1.067	1.089	1.098			1.4	33	TML	1.000
95	TM	Naphthalene		3.168	2.705	3.085	3.085	2.766	2.644	2.577			2.9	8.5	TM	
96	TM	1,2,3-Trichlorobenzene		0.9228	0.7206	0.8463	0.8120	0.7304	0.6735	0.6832			0.77	12	TM	
97																
98																
99																
100																
101																
102																
103																
104																
105																

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C05W.D Vial: 1
Acq On : 2 Feb 12 17:16 Operator: RS, ARS
Sample : Vol Std 02-02-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	570993	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.01	117	414528	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.21	152	210496	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.39	111	9939	0.64465 ppb		-0.01
Spiked Amount 22.441			Recovery =	2.874%		
37) 1,2-DCA-D4(S)	12.21	65	7532	0.69226 ppb		0.00
Spiked Amount 21.710			Recovery =	3.187%		
55) Toluene-D8(S)	15.48	98	41347	0.66805 ppb		0.00
Spiked Amount 24.025			Recovery =	2.780%		
63) 4-Bromofluorobenzene(S)	20.08	95	15187	0.73474 ppb		0.00
Spiked Amount 25.909			Recovery =	2.837%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	3704	0.20135 ppb	#	81
3) Freon 114	4.33	85	3191	0.24606 ppb		96
4) Chloromethane	4.57	50	2846	0.36214 ppb	#	82
5) Vinyl chloride	4.83	62	2894	0.51015 ppb		92
6) Bromomethane	5.72	94	1009	0.22447 ppb	#	42
7) Chloroethane	5.92	64	1945	-0.16287 ppb	#	70
8) Dichlorofluoromethane	6.00	67	10619	0.30019 ppb		96
9) Trichlorofluoromethane	6.52	103	1418	0.31179 ppb		83
10) Acetonitrile	7.66	41	8926	18.55998 ug/l		100
11) Acrolein	7.15	56	12952	17.53817 ppb		89
12) Acetone	7.29	43	593	-1.57463 ppb	#	1
13) Freon-113	7.42	101	5038	0.33744 ppb	#	53
14) 1,1-DCE	7.69	96	6797	0.40311 ppb	#	57
15) t-Butanol	7.78	59	710	15.34491 ppb	#	80
16) Methyl Acetate	8.20	43	2313	-1.12477 ppb		95
17) Iodomethane	8.15	142	3984	-0.34108 ppb	#	87
18) Acrylonitrile	8.58	53	706	0.46302 ppb	#	68
19) Methylene chloride	8.46	84	19748	1.35327 ppb		99
20) Carbon disulfide	8.55	76	5701	0.32557 ppb		97
21) Methyl t-butyl ether (MtBE	8.89	73	7979	0.37093 ppb	#	90
22) Trans-1,2-DCE	9.07	96	5863	0.29960 ppb	#	82
23) Diisopropyl Ether	9.74	45	16838	0.36742 ppb	#	82
24) 1,1-DCA	9.77	63	10394	0.34708 ppb	#	90
25) Vinyl Acetate	9.41	43	1893	0.33522 ppb		96
26) Ethyl tert Butyl Ether	10.42	59	11248	0.35744 ppb	#	89
27) MEK (2-Butanone)	10.43	43	777	0.63805 ppb	#	66
28) Cis-1,2-DCE	10.78	96	9824	-1.45263 ppb	#	67
29) 2,2-Dichloropropane	10.79	77	8233	0.33471 ppb	#	77
30) Chloroform	11.06	85	6256	0.34478 ppb		86
31) Bromochloromethane	11.31	128	2533	0.39441 ppb	#	79
33) 1,1,1-TCA	11.82	97	8802	0.34420 ppb	#	72
34) Cyclohexane	11.98	56	7250	0.27678 ppb		90
35) 1,1-Dichloropropene	12.08	75	6550	0.29679 ppb	#	82
36) 2,2,4-Trimethylpentane	12.16	57	17084	0.40964 ppb	#	91
38) Carbon Tetrachloride	12.28	117	6483	0.29920 ppb	#	69
39) Tert Amyl Methyl Ether	12.34	73	8527	0.32996 ppb	#	83
40) 1,2-DCA	12.36	62	3941	0.32193 ppb	#	87
41) Benzene	12.48	78	24841	0.35740 ppb		95
42) TCE	13.52	95	5954	0.33011 ppb		89

(#) = qualifier out of range (m) = manual integration
0202C05W.D CALLW.M Mon Feb 06 14:13:54 2012

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C05W.D Vial: 1
Acq On : 2 Feb 12 17:16 Operator: RS, ARS
Sample : Vol Std 02-02-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43) 2-Pentanone	13.19	43	51364	17.00278 ppb		94
44) 1,2-Dichloropropane	13.74	63	6143	0.39613 ppb		98
45) Bromodichloromethane	14.09	83	5634	0.34686 ppb	#	81
46) Methyl Cyclohexane	13.80	83	6985	0.29954 ppb		97
47) Dibromomethane	14.16	93	2166	0.35712 ppb	#	72
48) 2-Chloroethyl vinyl ether	14.55	63	1370	0.33229 ppb	#	73
49) 1-Bromo-2-chloroethane	14.85	63	3895	0.34336 ppb		98
50) Cis-1,3-Dichloropropene	14.99	75	9781	0.50192 ppb		84
51) Toluene	15.61	91	24742	0.35110 ppb		91
52) Trans-1,3-Dichloropropene	15.77	75	4136	0.31095 ppb	#	79
53) 1,1,2-TCA	16.07	83	1865	0.29812 ppb		74
56) 1,2-EDB	17.30	107	2458	0.31131 ppb	#	36
57) Tetrachloroethene	16.76	164	6325	0.36623 ppb	#	79
58) 1-Chlorohexane	17.67	91	7596	0.29493 ppb		91
59) 1,1,1,2-Tetrachloroethane	18.12	131	4785	0.34616 ppb		87
60) m&p-Xylene	18.33	106	20848	0.63682 ppb		94
61) o-Xylene	19.07	106	9971	0.32840 ppb		90
62) Styrene	19.08	104	13862	0.31084 ppb		90
65) 1,3-Dichloropropane	16.47	76	4725	0.33360 ppb		100
66) Dibromochloromethane	16.94	129	3017	0.29961 ppb		81
67) Chlorobenzene	18.08	112	14497	0.32436 ppb		94
68) Ethylbenzene	18.19	91	26790	0.32287 ppb		94
69) Bromoform	19.59	173	586	0.10908 ppb		90
71) MIBK (methyl isobutyl keto	14.64	43	1940	0.66257 ppb	#	58
72) Isopropylbenzene	19.70	105	24197	0.30798 ppb		97
73) 1,1,2,2-Tetrachloroethane	19.85	83	1868	0.27736 ppb	#	80
74) 1,2,3-Trichloropropane	20.12	110	250	0.41302 ppb	#	40
75) t-1,4-Dichloro-2-Butene	20.19	53	296	0.17176 ppb	#	68
76) Bromobenzene	20.44	156	6840	0.35905 ppb		77
77) n-Propylbenzene	20.42	91	30841	0.32177 ppb		98
78) 4-Ethyltoluene	20.60	105	17423	0.31051 ppb		98
79) 2-Chlorotoluene	20.71	91	21408	0.34766 ppb		88
80) 1,3,5-Trimethylbenzene	20.68	105	21575	0.34335 ppb		93
81) 4-Chlorotoluene	20.78	91	17542	0.32660 ppb		95
82) Tert-Butylbenzene	21.33	119	21951	0.32200 ppb	#	78
83) 1,2,4-Trimethylbenzene	21.38	105	20501	0.32108 ppb		93
84) Sec-Butylbenzene	21.72	105	27160	0.31178 ppb		95
85) p-Isopropyltoluene	21.95	119	24612	0.35086 ppb		91
86) Benzyl Chloride	22.39	91	4070	0.33894 ppb	#	92
87) 1,3-DCB	22.10	146	11400	0.31319 ppb		90
88) 1,4-DCB	22.26	146	11145	0.32939 ppb		92
89) Hexachloroethane	23.57	117	2745	0.80756 ppb		87
90) n-Butylbenzene	22.67	91	23984	0.38753 ppb		87
91) 1,2-DCB	22.90	146	9895	0.33743 ppb	#	79
92) 1,2-Dibromo-3-chloropropan	24.01	155	272	0.24310 ppb		76
93) 1,2,4-Trichlorobenzene	25.55	180	3279	0.39049 ppb		93
94) Hexachlorobutadiene	25.80	223	3954	0.28536 ppb		75
95) Naphthalene	25.90	128	8779	0.36436 ppb	#	75
96) 1,2,3-Trichlorobenzene	26.26	180	2289	0.35314 ppb		96

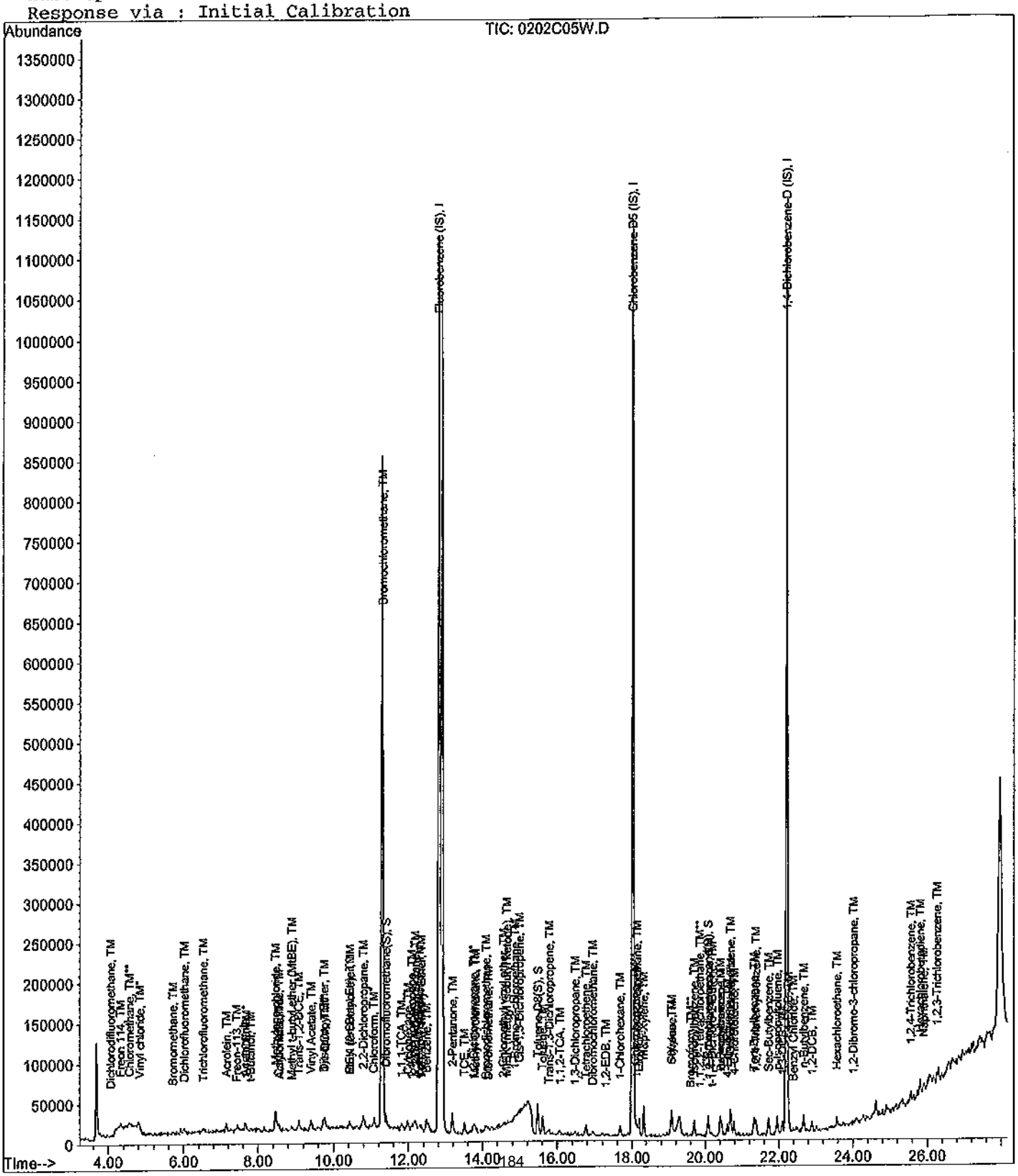
(#) = qualifier out of range (m) = manual integration
0202C05W.D CALLW.M Mon Feb 06 14:13:56 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C05W.D Vial: 1
Acq On : 2 Feb 12 17:16 Operator: RS, ARS
Sample : Vol Std 02-02-12@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C06W.D
Acq On : 2 Feb 12 17:53
Sample : Vol Std 02-02-12@0.5ug/L
Misc : Water 10mLw/ IS:01-31-12C

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	588072	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	399296	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	202432	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	16169	1.01828 ppb		0.00
Spiked Amount 22.441			Recovery	= 4.536%		
37) 1,2-DCA-D4(S)	12.21	65	12457	1.11165 ppb		0.00
Spiked Amount 21.710			Recovery	= 5.122%		
55) Toluene-D8(S)	15.48	98	65564	1.09974 ppb		0.00
Spiked Amount 24.025			Recovery	= 4.579%		
63) 4-Bromofluorobenzene(S)	20.08	95	21760	1.09290 ppb		0.00
Spiked Amount 25.909			Recovery	= 4.219%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	9421	0.49726 ppb		89
3) Freon 114	4.33	85	7754	0.58055 ppb	#	61
4) Chloromethane	4.56	50	4298	0.53102 ppb		91
5) Vinyl chloride	4.84	62	3716	0.63603 ppb		86
6) Bromomethane	5.73	94	2634	0.56895 ppb		76
8) Dichlorofluoromethane	6.01	67	19948	0.54753 ppb		85
9) Trichlorofluoromethane	6.52	103	2761	0.58946 ppb		89
10) Acetonitrile	7.66	41	11216	22.64430 ug/l		100
11) Acrolein	7.14	56	19107	25.12120 ppb		90
12) Acetone	7.28	43	1900	-0.24721 ppb	#	84
13) Freon-113	7.46	101	7925	0.51539 ppb		87
14) 1,1-DCE	7.66	96	10984	0.63251 ppb	#	81
15) t-Butanol	7.77	59	1029	21.59343 ppb	#	63
16) Methyl Acetate	8.19	43	3785	-0.77103 ppb		92
17) Iodomethane	8.14	142	9304	-0.16061 ppb		96
18) Acrylonitrile	8.56	53	801	0.51007 ppb	#	7
19) Methylene chloride	8.47	84	18391	1.22368 ppb		81
20) Carbon disulfide	8.55	76	9426	0.52266 ppb		96
21) Methyl t-butyl ether (MtBE	8.88	73	13340	0.60215 ppb	#	91
22) Trans-1,2-DCE	9.07	96	11706	0.58080 ppb		86
23) Diisopropyl Ether	9.75	45	25356	0.53723 ppb	#	81
24) 1,1-DCA	9.78	63	17097	0.55433 ppb	#	93
25) Vinyl Acetate	9.41	43	2639	0.58199 ppb		93
26) Ethyl tert Butyl Ether	10.43	59	16928	0.52231 ppb		93
27) MEK (2-Butanone)	10.43	43	810	0.64583 ppb	#	66
28) Cis-1,2-DCE	10.79	96	15921	-1.11435 ppb		74
29) 2,2-Dichloropropane	10.79	77	14746	0.58208 ppb	#	66
30) Chloroform	11.08	85	9004	0.48181 ppb		83
31) Bromochloromethane	11.30	128	2876	0.43481 ppb	#	13
33) 1,1,1-TCA	11.83	97	13201	0.50123 ppb	#	82
34) Cyclohexane	11.97	56	15028	0.55706 ppb		92
35) 1,1-Dichloropropene	12.08	75	12365	0.54400 ppb		88
36) 2,2,4-Trimethylpentane	12.16	57	30298	0.70539 ppb		94
38) Carbon Tetrachloride	12.27	117	10355	0.46402 ppb		94
39) Tert Amyl Methyl Ether	12.33	73	15284	0.57425 ppb	#	90
40) 1,2-DCA	12.35	62	6355	0.50405 ppb		96
41) Benzene	12.49	78	38728	0.54101 ppb		99
42) TCE	13.52	95	9207	0.49564 ppb		87
43) 2-Pentanone	13.18	43	71724	23.05292 ppb		98

(#) = qualifier out of range (m) = manual integration
0202C06W.D CALLW.M Mon Feb 06 14:14:02 2012

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C06W.D Vial: 1
Acq On : 2 Feb 12 17:53 Operator: RS, ARS
Sample : Vol Std 02-02-12@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,2-Dichloropropane	13.74	63	7889	0.49395 ppb		99
45)	Bromodichloromethane	14.09	83	7910	0.47284 ppb	#	96
46)	Methyl Cyclohexane	13.79	83	13230	0.55087 ppb		88
47)	Dibromomethane	14.15	93	3279	0.52493 ppb	#	74
48)	2-Chloroethyl vinyl ether	14.55	63	2510	0.59111 ppb	#	80
49)	1-Bromo-2-chloroethane	14.85	63	5344	0.45741 ppb		94
50)	Cis-1,3-Dichloropropene	14.97	75	9986	0.49756 ppb	#	81
51)	Toluene	15.61	91	39794	0.54830 ppb		99
52)	Trans-1,3-Dichloropropene	15.77	75	6984	0.50982 ppb	#	72
53)	1,1,2-TCA	16.07	83	3030	0.47027 ppb	#	55
56)	1,2-EDB	17.31	107	3850	0.50621 ppb	#	97
57)	Tetrachloroethene	16.76	164	8068	0.48497 ppb		93
58)	1-Chlorohexane	17.68	91	13303	0.53623 ppb		88
59)	1,1,1,2-Tetrachloroethane	18.13	131	6180	0.46414 ppb		79
60)	m&p-Xylene	18.33	106	32788	1.03974 ppb		99
61)	o-Xylene	19.08	106	15594	0.53318 ppb		97
62)	Styrene	19.09	104	23014	0.53574 ppb		97
64)	2-Hexanone	16.11	43	1440	0.54928 ppb		97
65)	1,3-Dichloropropane	16.46	76	7244	0.53095 ppb	#	70
66)	Dibromochloromethane	16.95	129	4246	0.43775 ppb		84
67)	Chlorobenzene	18.08	112	23031	0.53496 ppb		86
68)	Ethylbenzene	18.19	91	44605	0.55809 ppb		99
69)	Bromoform	19.62	173	2313	0.44699 ppb		83
71)	MIBK (methyl isobutyl keto	14.65	43	3869	1.11724 ppb		86
72)	Isopropylbenzene	19.70	105	40035	0.52987 ppb		99
73)	1,1,2,2-Tetrachloroethane	19.85	83	3327	0.51367 ppb	#	77
74)	1,2,3-Trichloropropane	20.13	110	497	0.80734 ppb		89
75)	t-1,4-Dichloro-2-Butene	20.18	53	962	0.58045 ppb	#	1
76)	Bromobenzene	20.43	156	10640	0.58077 ppb		87
77)	n-Propylbenzene	20.40	91	50088	0.54340 ppb		98
78)	4-Ethyltoluene	20.60	105	28870	0.53502 ppb		92
79)	2-Chlorotoluene	20.70	91	34060	0.57516 ppb		97
80)	1,3,5-Trimethylbenzene	20.68	105	34273	0.56716 ppb		99
81)	4-Chlorotoluene	20.78	91	28712	0.55586 ppb		97
82)	Tert-Butylbenzene	21.32	119	37132	0.56638 ppb		93
83)	1,2,4-Trimethylbenzene	21.37	105	32409	0.52780 ppb		94
84)	Sec-Butylbenzene	21.72	105	46495	0.55500 ppb		95
85)	p-Isopropyltoluene	21.95	119	36443	0.54022 ppb		90
86)	Benzyl Chloride	22.40	91	6451	0.55863 ppb	#	80
87)	1,3-DCB	22.09	146	20577	0.58783 ppb		97
88)	1,4-DCB	22.26	146	18268	0.56141 ppb		97
89)	Hexachloroethane	23.56	117	3831	0.88764 ppb		90
90)	n-Butylbenzene	22.66	91	34060	0.57226 ppb		87
91)	1,2-DCB	22.89	146	16199	0.57440 ppb		90
92)	1,2-Dibromo-3-chloropropan	24.10	155	887	0.82434 ppb		93
93)	1,2,4-Trichlorobenzene	25.55	180	4811	0.59575 ppb		83
94)	Hexachlorobutadiene	25.81	223	9723	0.95334 ppb	#	66
95)	Naphthalene	25.90	128	12828	0.55362 ppb		93
96)	1,2,3-Trichlorobenzene	26.26	180	3736	0.59935 ppb		96

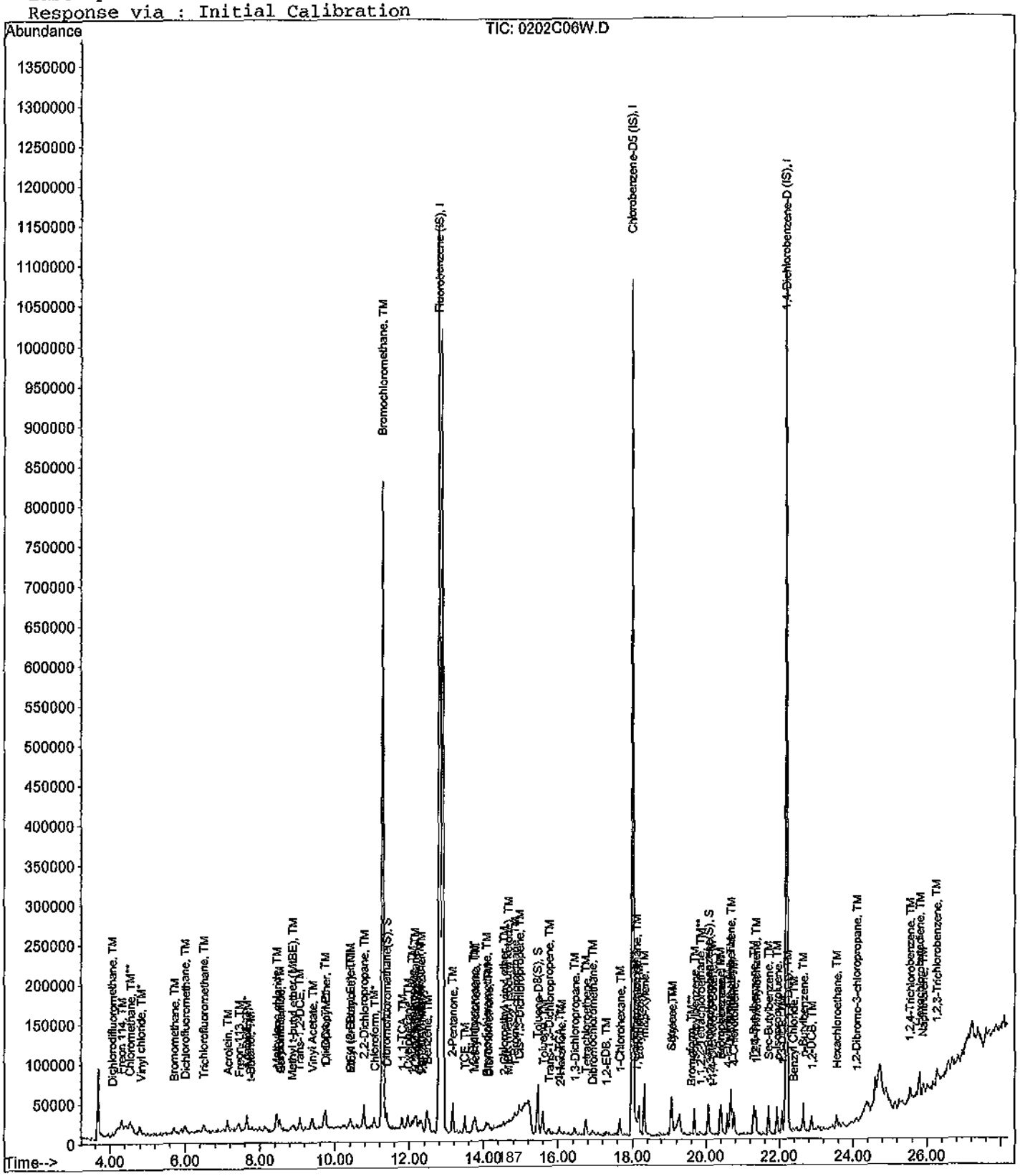
(#) = qualifier out of range (m) = manual integration
0202C06W.D CALLW.M Mon Feb 06 14:14:04 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C06W.D Vial: 1
Acq On : 2 Feb 12 17:53 Operator: RS, ARS
Sample : Vol Std 02-02-12@0.5ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C07W.D Vial: 1
Acq On : 2 Feb 12 18:30 Operator: RS, ARS
Sample : Vol Std 02-02-12@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	587000	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	406080	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	204096	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	32012	2.01971 ppb		0.00
Spiked Amount 22.441			Recovery =	9.001%		
37) 1,2-DCA-D4(S)	12.20	65	22519	2.01325 ppb		0.00
Spiked Amount 21.710			Recovery =	9.272%		
55) Toluene-D8(S)	15.48	98	129028	2.12810 ppb		0.00
Spiked Amount 24.025			Recovery =	8.858%		
63) 4-Bromofluorobenzene(S)	20.07	95	44840	2.21448 ppb		0.00
Spiked Amount 25.909			Recovery =	8.545%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	19706	1.04202 ppb		96
3) Freon 114	4.32	85	13545	1.01598 ppb		95
4) Chloromethane	4.57	50	9829	1.21659 ppb		93
5) Vinyl chloride	4.84	62	6369	1.09211 ppb		97
6) Bromomethane	5.72	94	4181	0.90476 ppb		94
7) Chloroethane	5.93	64	4540	0.57746 ppb		98
8) Dichlorofluoromethane	6.02	67	36544	1.00489 ppb		91
9) Trichlorofluoromethane	6.52	103	5159	1.10343 ppb		98
10) Acetonitrile	7.65	41	23775	48.08767 ug/l		100
11) Acrolein	7.15	56	38284	50.42635 ppb		95
12) Acetone	7.30	43	1985	-0.15596 ppb		91
13) Freon-113	7.46	101	16159	1.05279 ppb	#	83
14) 1,1-DCE	7.66	96	19588	1.13002 ppb		96
15) t-Butanol	7.76	59	2494	52.43185 ppb		95
17) Iodomethane	8.16	142	22100	0.28482 ppb		92
18) Acrylonitrile	8.56	53	1520	0.96969 ppb	#	33
19) Methylene chloride	8.46	84	21467	1.43095 ppb		96
20) Carbon disulfide	8.54	76	17672	0.98168 ppb		99
21) Methyl t-butyl ether (MtBE	8.88	73	21579	0.97583 ppb		92
22) Trans-1,2-DCE	9.07	96	22367	1.11178 ppb		94
23) Diisopropyl Ether	9.73	45	46937	0.99629 ppb		92
24) 1,1-DCA	9.76	63	29364	0.95379 ppb		96
25) Vinyl Acetate	9.41	43	4594	1.28481 ppb		98
26) Ethyl tert Butyl Ether	10.43	59	31374	0.96981 ppb		98
27) MEK (2-Butanone)	10.41	43	1510	1.20615 ppb	#	66
28) Cis-1,2-DCE	10.79	96	25427	-0.55752 ppb		81
29) 2,2-Dichloropropane	10.79	77	25211	0.99698 ppb		96
30) Chloroform	11.07	85	17334	0.92926 ppb		89
31) Bromochloromethane	11.30	128	5799	0.87832 ppb	#	71
33) 1,1,1-TCA	11.81	97	26418	1.00490 ppb		93
34) Cyclohexane	11.97	56	27106	1.00661 ppb		80
35) 1,1-Dichloropropene	12.08	75	24389	1.07496 ppb		93
36) 2,2,4-Trimethylpentane	12.16	57	45604	1.06367 ppb		94
38) Carbon Tetrachloride	12.28	117	21822	0.97965 ppb		91
39) Tert Amyl Methyl Ether	12.32	73	28011	1.05434 ppb	#	96
40) 1,2-DCA	12.35	62	13066	1.03823 ppb		96
41) Benzene	12.47	78	74463	1.04212 ppb	#	89
42) TCE	13.51	95	18181	0.98052 ppb		87
43) 2-Pentanone	13.18	43	152974	49.25740 ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C07W.D Vial: 1
Acq On : 2 Feb 12 18:30 Operator: RS, ARS
Sample : Vol Std 02-02-12@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,2-Dichloropropane	13.74	63	14920	0.93589 ppb	#	92
45)	Bromodichloromethane	14.09	83	14662	0.87805 ppb	#	78
46)	Methyl Cyclohexane	13.80	83	25050	1.04493 ppb		95
47)	Dibromomethane	14.14	93	5058	0.81120 ppb		87
48)	2-Chloroethyl vinyl ether	14.55	63	4206	0.99233 ppb		90
49)	1-Bromo-2-chloroethane	14.86	63	10763	0.92292 ppb		95
50)	Cis-1,3-Dichloropropene	14.98	75	21001	1.04830 ppb		94
51)	Toluene	15.60	91	73743	1.01791 ppb		99
52)	Trans-1,3-Dichloropropene	15.77	75	12208	0.89280 ppb	#	82
53)	1,1,2-TCA	16.06	83	6200	0.96403 ppb	#	86
56)	1,2-EDB	17.30	107	7061	0.91289 ppb	#	99
57)	Tetrachloroethene	16.76	164	18155	1.07308 ppb		96
58)	1-Chlorohexane	17.67	91	26665	1.05688 ppb		92
59)	1,1,1,2-Tetrachloroethane	18.14	131	12163	0.89822 ppb		84
60)	m&p-Xylene	18.33	106	63043	1.96576 ppb		97
61)	o-Xylene	19.07	106	29229	0.98269 ppb		91
62)	Styrene	19.09	104	39670	0.90805 ppb		84
64)	2-Hexanone	16.13	43	2857	1.07158 ppb		79
65)	1,3-Dichloropropane	16.46	76	13171	0.94925 ppb		98
66)	Dibromochloromethane	16.95	129	8474	0.85905 ppb		76
67)	Chlorobenzene	18.07	112	42764	0.97672 ppb		87
68)	Ethylbenzene	18.19	91	80477	0.99009 ppb		97
69)	Bromoform	19.60	173	4498	0.85473 ppb	#	74
71)	MIBK (methyl isobutyl keto	14.66	43	5652	1.51145 ppb		98
72)	Isopropylbenzene	19.71	105	75895	0.99630 ppb		100
73)	1,1,2,2-Tetrachloroethane	19.86	83	5844	0.89493 ppb		88
74)	1,2,3-Trichloropropane	20.11	110	1056	1.65319 ppb	#	59
75)	t-1,4-Dichloro-2-Butene	20.20	53	1669	0.99882 ppb	#	39
76)	Bromobenzene	20.44	156	17715	0.95907 ppb		84
77)	n-Propylbenzene	20.40	91	93631	1.00752 ppb		97
78)	4-Ethyltoluene	20.61	105	54645	1.00442 ppb		96
79)	2-Chlorotoluene	20.70	91	60893	1.01989 ppb		98
80)	1,3,5-Trimethylbenzene	20.68	105	60355	0.99063 ppb		93
81)	4-Chlorotoluene	20.78	91	50996	0.97922 ppb		98
82)	Tert-Butylbenzene	21.32	119	65876	0.99662 ppb		88
83)	1,2,4-Trimethylbenzene	21.38	105	63151	1.02006 ppb		100
84)	Sec-Butylbenzene	21.72	105	82529	0.97710 ppb		91
85)	p-Isopropyltoluene	21.95	119	69509	1.02198 ppb		99
86)	Benzyl Chloride	22.39	91	10034	0.86182 ppb	#	93
87)	1,3-DCB	22.09	146	34870	0.98803 ppb		92
88)	1,4-DCB	22.26	146	32294	0.98436 ppb		98
89)	Hexachloroethane	23.56	117	8015	1.16454 ppb		91
90)	n-Butylbenzene	22.67	91	59025	0.98362 ppb		95
91)	1,2-DCB	22.89	146	27227	0.95757 ppb		92
92)	1,2-Dibromo-3-chloropropan	24.11	155	1143	1.05360 ppb		97
93)	1,2,4-Trichlorobenzene	25.55	180	7823	0.96084 ppb		98
94)	Hexachlorobutadiene	25.81	223	11051	1.09300 ppb		81
95)	Naphthalene	25.90	128	22086	0.94539 ppb		91
96)	1,2,3-Trichlorobenzene	26.26	180	5883	0.93608 ppb		99

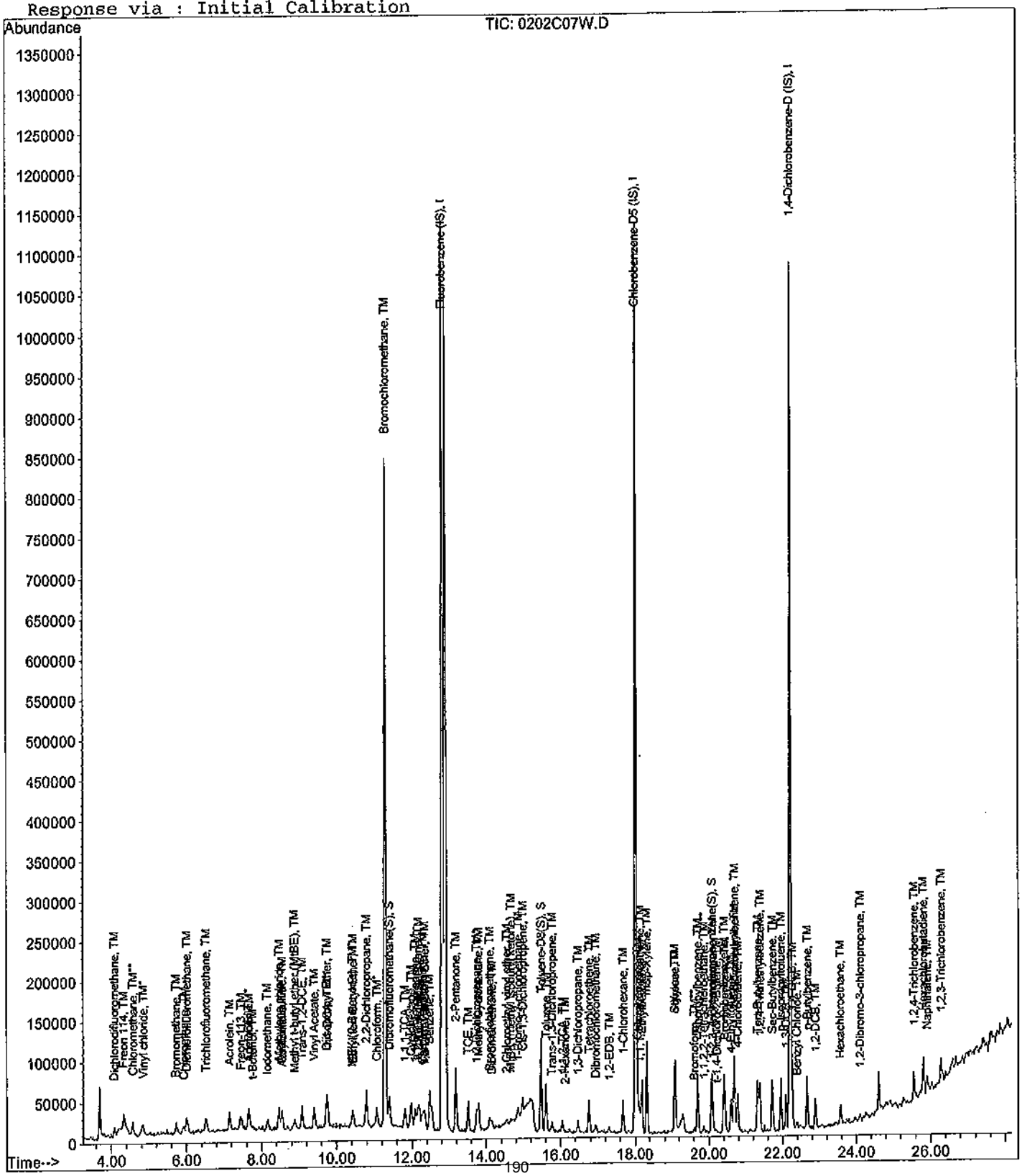
(#) = qualifier out of range (m) = manual integration
0202C07W.D CALLW.M Mon Feb 06 14:14:12 2012 Page 2

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C07W.D Vial: 1
Acq On : 2 Feb 12 18:30 Operator: RS, ARS
Sample : Vol Std 02-02-12@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C08W.D Vial: 1
Acq On : 2 Feb 12 19:08 Operator: RS, ARS
Sample : Vol Std 02-02-12@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	576880	25.00000	ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	407104	25.00000	ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	203648	25.00000	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	11.39	111	160341	10.29373	ppb		0.00
Spiked Amount 22.441			Recovery =	45.871%			
37) 1,2-DCA-D4(S)	12.20	65	111244	10.11994	ppb		0.00
Spiked Amount 21.710			Recovery =	46.614%			
55) Toluene-D8(S)	15.47	98	633278	10.41857	ppb		0.00
Spiked Amount 24.025			Recovery =	43.368%			
63) 4-Bromofluorobenzene(S)	20.08	95	206246	10.16009	ppb		0.00
Spiked Amount 25.909			Recovery =	39.214%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.08	85	94464	5.08273	ppb		96
3) Freon 114	4.33	85	58971	4.50088	ppb		96
4) Chloromethane	4.56	50	39752	5.00663	ppb		98
5) Vinyl chloride	4.83	62	32112	5.60293	ppb		97
6) Bromomethane	5.73	94	22936	5.05038	ppb		95
7) Chloroethane	5.92	64	20136	5.22530	ppb		92
8) Dichlorofluoromethane	6.01	67	188458	5.27313	ppb		94
9) Trichlorofluoromethane	6.51	103	24216	5.27028	ppb		95
10) Acetonitrile	7.64	41	49084	101.01964	ug/l		100
11) Acrolein	7.14	56	68170	91.36632	ppb		95
12) Acetone	7.27	43	6483	4.60093	ppb		97
13) Freon-113	7.45	101	73719	4.88720	ppb		92
14) 1,1-DCE	7.66	96	76951	4.51715	ppb		93
15) t-Butanol	7.76	59	4961	106.12570	ppb	#	87
16) Methyl Acetate	8.17	43	20767	3.61277	ppb		92
17) Iodomethane	8.14	142	129934	4.11284	ppb		98
18) Acrylonitrile	8.54	53	7991	5.18732	ppb		88
19) Methylene chloride	8.46	84	80279	5.44513	ppb		92
20) Carbon disulfide	8.54	76	86248	4.87511	ppb		99
21) Methyl t-butyl ether (MtBE	8.87	73	112311	5.16793	ppb		98
22) Trans-1,2-DCE	9.08	96	94021	4.75542	ppb		94
23) Diisopropyl Ether	9.74	45	256508	5.54018	ppb		96
24) 1,1-DCA	9.77	63	153733	5.08111	ppb		97
25) Vinyl Acetate	9.40	43	13244	4.47015	ppb		100
26) Ethyl tert Butyl Ether	10.43	59	173169	5.44680	ppb		94
27) MEK (2-Butanone)	10.43	43	6088	4.94824	ppb	#	81
28) Cis-1,2-DCE	10.79	96	98617	3.81771	ppb		95
29) 2,2-Dichloropropane	10.79	77	124275	5.00074	ppb		100
30) Chloroform	11.07	85	97321	5.30879	ppb		92
31) Bromochloromethane	11.29	128	32949	5.07804	ppb		97
33) 1,1,1-TCA	11.81	97	134379	5.20125	ppb		99
34) Cyclohexane	11.98	56	126569	4.78274	ppb		95
35) 1,1-Dichloropropene	12.08	75	109303	4.90211	ppb		100
36) 2,2,4-Trimethylpentane	12.15	57	201156	4.77409	ppb		97
38) Carbon Tetrachloride	12.28	117	113560	5.18745	ppb		95
39) Tert Amyl Methyl Ether	12.33	73	137400	5.26251	ppb	#	92
40) 1,2-DCA	12.35	62	64572	5.22093	ppb		99
41) Benzene	12.48	78	341081	4.85721	ppb		99
42) TCE	13.51	95	98830	5.42353	ppb		97

(#) = qualifier out of range (m) = manual integration
0202C08W.D CALLW.M Mon Feb 06 14:14:19 2012 Page 1

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C08W.D Vial: 1
Acq On : 2 Feb 12 19:08 Operator: RS, ARS
Sample : Vol Std 02-02-12@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.17	43	302057	98.96813	ppb		97
44)	1,2-Dichloropropane	13.74	63	77026	4.91636	ppb	#	93
45)	Bromodichloromethane	14.09	83	88338	5.38305	ppb		100
46)	Methyl Cyclohexane	13.79	83	110873	4.70607	ppb		99
47)	Dibromomethane	14.14	93	32588	5.31814	ppb		85
48)	2-Chloroethyl vinyl ether	14.55	63	19596	4.70442	ppb	#	88
49)	1-Bromo-2-chloroethane	14.85	63	62154	5.42315	ppb		93
50)	Cis-1,3-Dichloropropene	14.97	75	102532	5.20784	ppb		97
51)	Toluene	15.60	91	381622	5.36014	ppb		96
52)	Trans-1,3-Dichloropropene	15.77	75	68381	5.08859	ppb		96
53)	1,1,2-TCA	16.06	83	33453	5.29283	ppb		92
56)	1,2-EDB	17.30	107	41583	5.36257	ppb	#	95
57)	Tetrachloroethene	16.75	164	90547	5.33844	ppb		96
58)	1-Chlorohexane	17.67	91	130293	5.15122	ppb		96
59)	1,1,1,2-Tetrachloroethane	18.13	131	74192	5.46521	ppb		96
60)	m&p-Xylene	18.32	106	334953	10.41799	ppb		100
61)	o-Xylene	19.08	106	160487	5.38206	ppb		92
62)	Styrene	19.09	104	232143	5.30041	ppb		92
64)	2-Hexanone	16.08	43	12385	4.63360	ppb		81
65)	1,3-Dichloropropane	16.46	76	70764	5.08722	ppb		100
66)	Dibromochloromethane	16.94	129	51215	5.17885	ppb		87
67)	Chlorobenzene	18.07	112	231047	5.26376	ppb		98
68)	Ethylbenzene	18.19	91	424989	5.21537	ppb		99
69)	Bromoform	19.60	173	24036	4.55592	ppb		98
71)	MIBK (methyl isobutyl keto	14.65	43	22044	5.21233	ppb		85
72)	Isopropylbenzene	19.69	105	420389	5.53073	ppb		99
73)	1,1,2,2-Tetrachloroethane	19.87	83	34429	5.28393	ppb	#	80
74)	1,2,3-Trichloropropane	20.11	110	3458	5.32615	ppb		95
75)	t-1,4-Dichloro-2-Butene	20.18	53	7896	4.73579	ppb	#	82
76)	Bromobenzene	20.44	156	99045	5.37398	ppb		88
77)	n-Propylbenzene	20.41	91	506757	5.46495	ppb		97
78)	4-Ethyltoluene	20.60	105	295598	5.44527	ppb		98
79)	2-Chlorotoluene	20.70	91	319501	5.36308	ppb		93
80)	1,3,5-Trimethylbenzene	20.68	105	329193	5.41505	ppb		93
81)	4-Chlorotoluene	20.78	91	277289	5.33620	ppb		99
82)	Tert-Butylbenzene	21.32	119	357257	5.41676	ppb		94
83)	1,2,4-Trimethylbenzene	21.38	105	338048	5.47242	ppb		96
84)	Sec-Butylbenzene	21.72	105	457550	5.42905	ppb		97
85)	p-Isopropyltoluene	21.95	119	369345	5.44237	ppb		99
86)	Benzyl Chloride	22.38	91	61861	5.32494	ppb		96
87)	1,3-DCB	22.09	146	191073	5.42588	ppb		99
88)	1,4-DCB	22.26	146	173273	5.29320	ppb		97
89)	Hexachloroethane	23.56	117	67814	5.16198	ppb		89
90)	n-Butylbenzene	22.66	91	323282	5.39917	ppb		98
91)	1,2-DCB	22.89	146	149796	5.27990	ppb		98
92)	1,2-Dibromo-3-chloropropan	24.11	155	5552	5.12900	ppb		96
93)	1,2,4-Trichlorobenzene	25.56	180	43544	5.35993	ppb		94
94)	Hexachlorobutadiene	25.80	223	52643	5.76034	ppb		85
95)	Naphthalene	25.90	128	125667	5.39102	ppb		97
96)	1,2,3-Trichlorobenzene	26.26	180	34468	5.49650	ppb		96

(#) = qualifier out of range (m) = manual integration
0202C08W.D CALLW.M Mon Feb 06 14:14:20 2012 Page 2

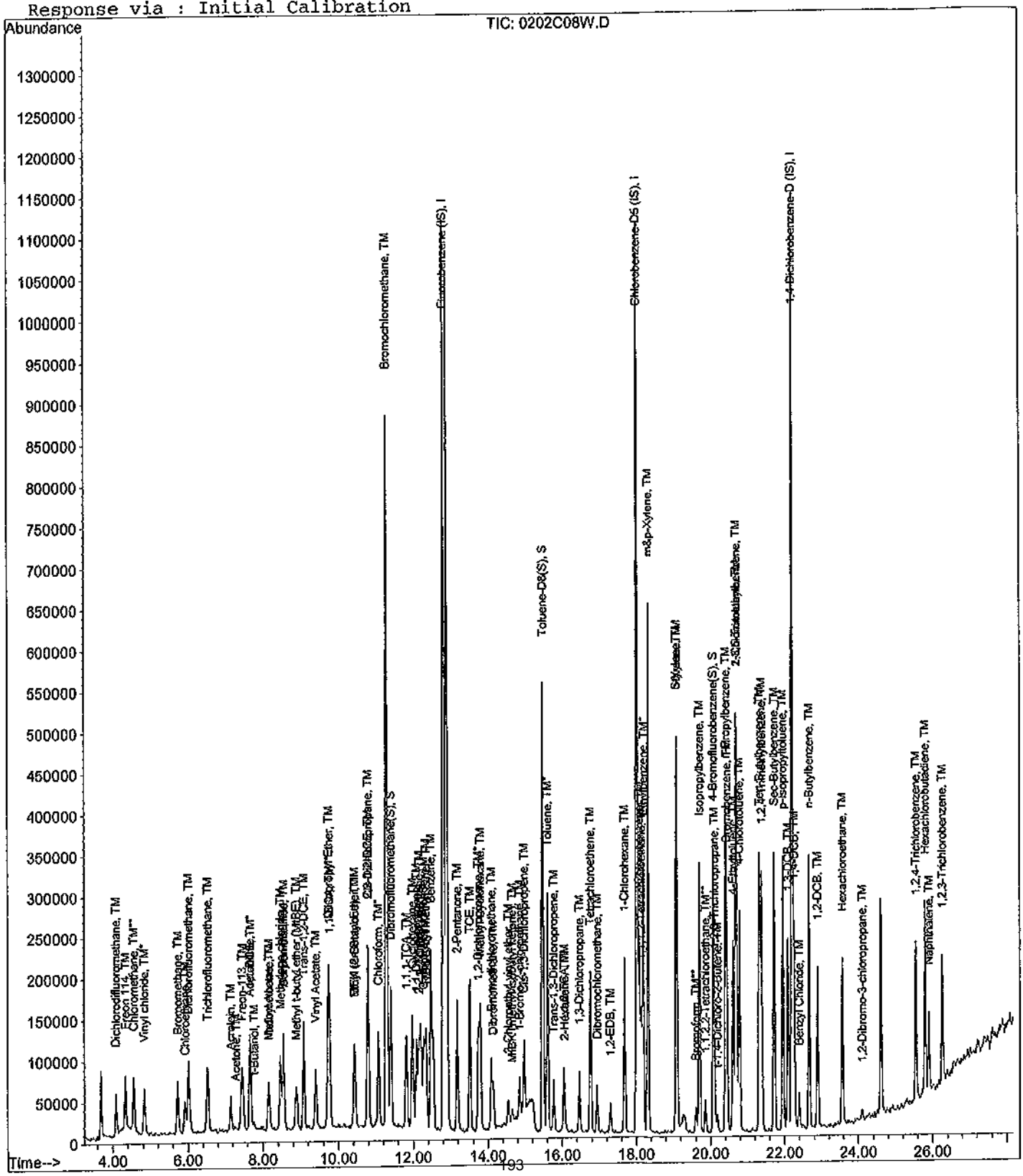
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C08W.D
Acq On : 2 Feb 12 19:08
Sample : Vol Std 02-02-12@5.0ug/L
Misc : Water 10mLw/ IS:01-31-12C

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C09W.D
Acq On : 2 Feb 12 19:45
Sample : Vol Std 02-02-12@10ug/L
Misc : Water 10mLw/ IS:01-31-12C

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	96	587426	25.00000	ppb	0.00
54) Chlorobenzene-D5 (IS)	18.01	117	416448	25.00000	ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.21	152	207872	25.00000	ppb	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	382093	24.08959	ppb	0.00
Spiked Amount 22.441			Recovery = 107.347%			
37) 1,2-DCA-D4(S)	12.20	65	269146	24.04481	ppb	0.00
Spiked Amount 21.710			Recovery = 110.755%			
55) Toluene-D8(S)	15.47	98	1477413	23.76075	ppb	0.00
Spiked Amount 24.025			Recovery = 98.903%			
63) 4-Bromofluorobenzene(S)	20.08	95	488642	23.53139	ppb	0.00
Spiked Amount 25.909			Recovery = 90.820%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	150114	7.93202	ppb	100
3) Freon 114	4.33	85	138979	10.41695	ppb	100
4) Chloromethane	4.56	50	72403	8.95520	ppb	100
5) Vinyl chloride	4.82	62	61160	10.47967	ppb	100
6) Bromomethane	5.72	94	46688	10.09587	ppb	100
7) Chloroethane	5.92	64	36815	9.97508	ppb	100
8) Dichlorofluoromethane	6.00	67	381955	10.49538	ppb	100
9) Trichlorofluoromethane	6.52	103	39288	8.39699	ppb	100
10) Acetonitrile	7.65	41	63848	129.04627	ug/l	100
11) Acrolein	7.14	56	94007	123.73294	ppb	100
12) Acetone	7.28	43	11512	9.66230	ppb	100
13) Freon-113	7.44	101	155254	10.10777	ppb	100
14) 1,1-DCE	7.67	96	163571	9.42950	ppb	100
15) t-Butanol	7.75	59	5987	125.77460	ppb	100
16) Methyl Acetate	8.17	43	42572	9.02135	ppb	100
17) Iodomethane	8.15	142	282191	9.31960	ppb	100
18) Acrylonitrile	8.55	53	15932	10.15651	ppb	100
19) Methylene chloride	8.46	84	161213	10.73837	ppb	100
20) Carbon disulfide	8.54	76	186752	10.36653	ppb	100
21) Methyl t-butyl ether (MtBE	8.88	73	224776	10.15726	ppb	100
22) Trans-1,2-DCE	9.08	96	199970	9.93256	ppb	100
23) Diisopropyl Ether	9.74	45	489992	10.39308	ppb	100
24) 1,1-DCA	9.77	63	313151	10.16430	ppb	100
25) Vinyl Acetate	9.40	43	30408	10.53420	ppb	100
26) Ethyl tert Butyl Ether	10.42	59	339936	10.50028	ppb	100
27) MEK (2-Butanone)	10.41	43	12414	9.90878	ppb	100
28) Cis-1,2-DCE	10.79	96	197471	9.48125	ppb	100
29) 2,2-Dichloropropane	10.78	77	254778	10.06805	ppb	100
30) Chloroform	11.07	85	191746	10.27183	ppb	100
31) Bromochloromethane	11.29	128	66602	10.08030	ppb	100
33) 1,1,1-TCA	11.82	97	268339	10.19982	ppb	100
34) Cyclohexane	11.97	56	267092	9.91157	ppb	100
35) 1,1-Dichloropropene	12.09	75	231241	10.18469	ppb	100
36) 2,2,4-Trimethylpentane	12.15	57	442383	10.31070	ppb	100
38) Carbon Tetrachloride	12.27	117	229512	10.29594	ppb	100
39) Tert Amyl Methyl Ether	12.33	73	258037	9.70555	ppb	100
40) 1,2-DCA	12.36	62	134024	10.64188	ppb	100
41) Benzene	12.48	78	708450	9.90765	ppb	100
42) TCE	13.52	95	196496	10.58960	ppb	100

(#) = qualifier out of range (m) = manual integration
0202C09W.D CALLW.M Mon Feb 06 14:14:27 2012

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C09W.D Vial: 1
Acq On : 2 Feb 12 19:45 Operator: RS, ARS
Sample : Vol Std 02-02-12@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

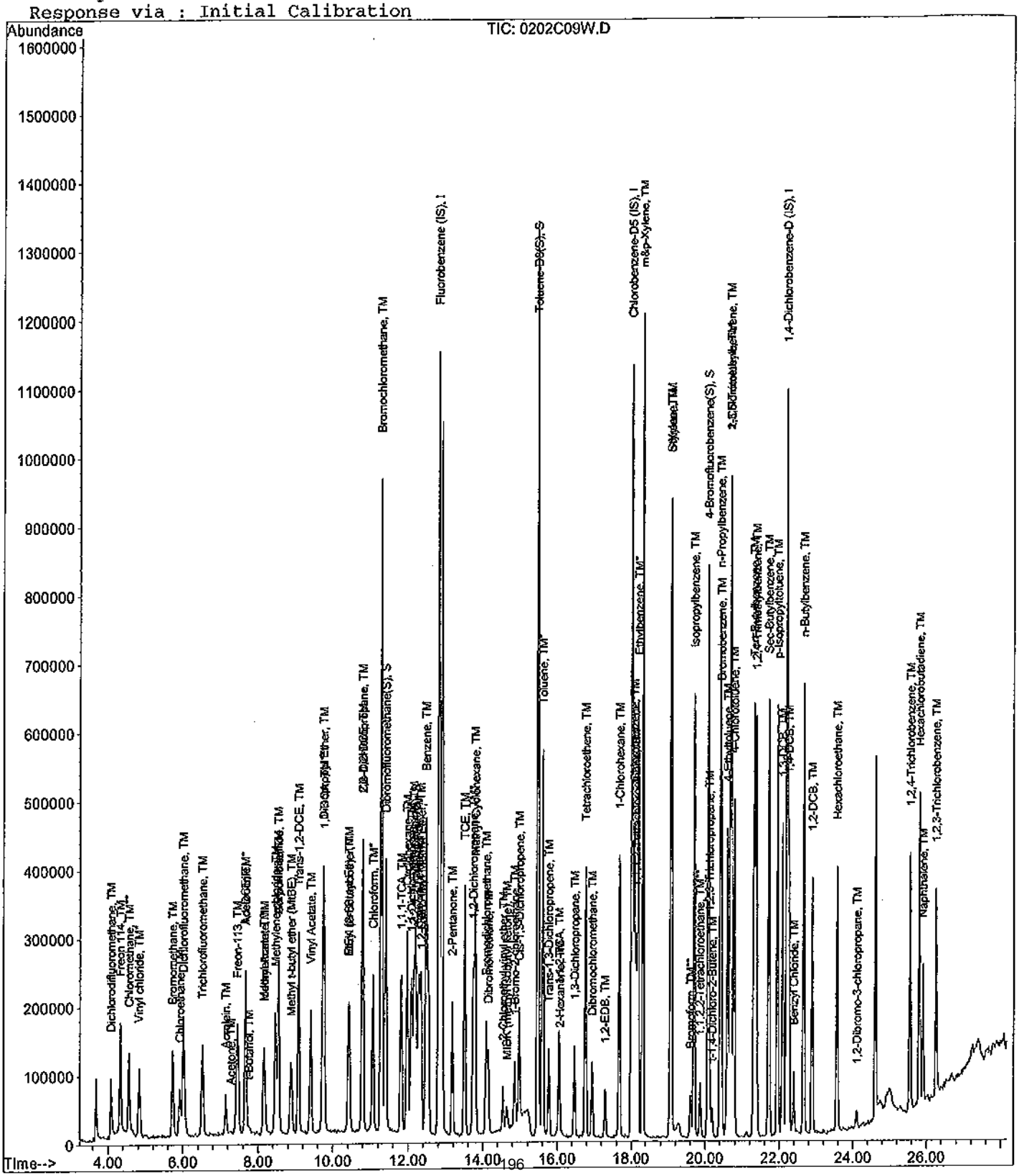
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
43)	2-Pentanone	13.18	43	375669	120.87713	ppb	100
44)	1,2-Dichloropropane	13.74	63	152101	9.53391	ppb	100
45)	Bromodichloromethane	14.09	83	177410	10.61674	ppb	100
46)	Methyl Cyclohexane	13.79	83	236866	9.87343	ppb	100
47)	Dibromomethane	14.15	93	66789	10.70383	ppb	100
48)	2-Chloroethyl vinyl ether	14.55	63	40633	9.57966	ppb	100
49)	1-Bromo-2-chloroethane	14.85	63	127910	10.96022	ppb	100
50)	Cis-1,3-Dichloropropene	14.98	75	201186	10.03525	ppb	100
51)	Toluene	15.61	91	741177	10.22344	ppb	100
52)	Trans-1,3-Dichloropropene	15.77	75	140535	10.27019	ppb	100
53)	1,1,2-TCA	16.05	83	67789	10.53281	ppb	100
56)	1,2-EDB	17.29	107	79846	10.06596	ppb	100
57)	Tetrachloroethene	16.76	164	178235	10.27254	ppb	100
58)	1-Chlorohexane	17.67	91	254913	9.85203	ppb	100
59)	1,1,1,2-Tetrachloroethane	18.12	131	144436	10.40087	ppb	100
60)	m&p-Xylene	18.33	106	643254	19.55811	ppb	100
61)	o-Xylene	19.07	106	314918	10.32407	ppb	100
62)	Styrene	19.09	104	462923	10.33253	ppb	100
64)	2-Hexanone	16.08	43	24850	9.08852	ppb	100
65)	1,3-Dichloropropane	16.46	76	140499	9.87384	ppb	100
66)	Dibromochloromethane	16.94	129	101866	10.06956	ppb	100
67)	Chlorobenzene	18.08	112	452598	10.07983	ppb	100
68)	Ethylbenzene	18.18	91	824141	9.88676	ppb	100
69)	Bromoform	19.60	173	51476	9.53814	ppb	100
71)	MIBK (methyl isobutyl keto	14.64	43	44485	10.07115	ppb	100
72)	Isopropylbenzene	19.70	105	810741	10.44955	ppb	100
73)	1,1,2,2-Tetrachloroethane	19.86	83	70372	10.58077	ppb	100
74)	1,2,3-Trichloropropane	20.12	110	7362	11.06156	ppb	100
75)	t-1,4-Dichloro-2-Butene	20.18	53	16781	9.86024	ppb	100
76)	Bromobenzene	20.44	156	183973	9.77916	ppb	100
77)	n-Propylbenzene	20.41	91	964430	10.18923	ppb	100
78)	4-Ethyltoluene	20.60	105	556926	10.05078	ppb	100
79)	2-Chlorotoluene	20.70	91	592045	9.73600	ppb	100
80)	1,3,5-Trimethylbenzene	20.68	105	644374	10.38422	ppb	100
81)	4-Chlorotoluene	20.78	91	551501	10.39752	ppb	100
82)	Tert-Butylbenzene	21.32	119	676820	10.05347	ppb	100
83)	1,2,4-Trimethylbenzene	21.37	105	643411	10.20407	ppb	100
84)	Sec-Butylbenzene	21.71	105	872028	10.13677	ppb	100
85)	p-Isopropyltoluene	21.96	119	704990	10.17707	ppb	100
86)	Benzyl Chloride	22.39	91	112229	9.46426	ppb	100
87)	1,3-DCB	22.09	146	363347	10.10827	ppb	100
88)	1,4-DCB	22.26	146	337097	10.08850	ppb	100
89)	Hexachloroethane	23.56	117	136311	9.55442	ppb	100
90)	n-Butylbenzene	22.66	91	623737	10.20543	ppb	100
91)	1,2-DCB	22.89	146	298821	10.31860	ppb	100
92)	1,2-Dibromo-3-chloropropan	24.10	155	11976	10.83875	ppb	100
93)	1,2,4-Trichlorobenzene	25.55	180	82720	9.97529	ppb	100
94)	Hexachlorobutadiene	25.81	223	92112	9.97694	ppb	100
95)	Naphthalene	25.90	128	256531	10.78136	ppb	100
96)	1,2,3-Trichlorobenzene	26.26	180	67517	10.54794	ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C09W.D Vial: 1
Acq On : 2 Feb 12 19:45 Operator: RS, ARS
Sample : Vol Std 02-02-12@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C10W.D Vial: 1
Acq On : 2 Feb 12 20:22 Operator: RS, ARS
Sample : Vol Std 02-02-12@40ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	600326	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	422912	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	228736	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	1290303	79.60092 ppb		0.00
Spiked Amount 22.441			Recovery = 354.707%			
37) 1,2-DCA-D4(S)	12.20	65	891975	77.97443 ppb		0.00
Spiked Amount 21.710			Recovery = 359.162%			
55) Toluene-D8(S)	15.48	98	4728580	74.88586 ppb		0.00
Spiked Amount 24.025			Recovery = 311.706%			
63) 4-Bromofluorobenzene(S)	20.07	95	1574743	74.67534 ppb		0.00
Spiked Amount 25.909			Recovery = 288.216%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	881891	45.59778 ppb		96
3) Freon 114	4.33	85	556212	40.79412 ppb		93
4) Chloromethane	4.56	50	307510	37.21723 ppb		98
5) Vinyl chloride	4.82	62	201472	33.78008 ppb		95
6) Bromomethane	5.73	94	201920	42.72515 ppb		99
7) Chloroethane	5.92	64	147215	41.20271 ppb		97
8) Dichlorofluoromethane	6.01	67	1477836	39.73545 ppb		100
9) Trichlorofluoromethane	6.52	103	190272	39.79279 ppb		96
10) Acetonitrile	7.64	41	89495	176.99580 ug/l		100
11) Acrolein	7.15	56	134552	173.29312 ppb		94
12) Acetone	7.27	43	41892	40.04799 ppb	#	76
13) Freon-113	7.45	101	639681	40.75136 ppb		92
14) 1,1-DCE	7.66	96	673858	38.01166 ppb		95
15) t-Butanol	7.75	59	8790	180.69185 ppb	#	93
16) Methyl Acetate	8.17	43	182117	43.26001 ppb		96
17) Iodomethane	8.16	142	1208391	40.59295 ppb		97
18) Acrylonitrile	8.55	53	66518	41.49342 ppb		96
19) Methylene chloride	8.46	84	608098	39.63492 ppb		98
20) Carbon disulfide	8.54	76	748992	40.68284 ppb		97
21) Methyl t-butyl ether (MtBE	8.88	73	886950	39.21859 ppb		95
22) Trans-1,2-DCE	9.08	96	797643	38.76777 ppb		95
23) Diisopropyl Ether	9.73	45	1898090	39.39474 ppb		95
24) 1,1-DCA	9.77	63	1222640	38.83188 ppb		99
25) Vinyl Acetate	9.40	43	113486	39.43175 ppb		93
26) Ethyl tert Butyl Ether	10.43	59	1346271	40.69136 ppb		91
27) MEK (2-Butanone)	10.42	43	53392	41.70140 ppb	#	87
28) Cis-1,2-DCE	10.80	96	787256	42.91171 ppb		96
29) 2,2-Dichloropropane	10.79	77	1004128	38.82740 ppb		95
30) Chloroform	11.07	85	766857	40.19775 ppb		99
31) Bromochloromethane	11.30	128	277404	41.08327 ppb		93
33) 1,1,1-TCA	11.81	97	1110119	41.28994 ppb		95
34) Cyclohexane	11.98	56	1104126	40.09277 ppb		94
35) 1,1-Dichloropropene	12.08	75	911465	39.28157 ppb		99
36) 2,2,4-Trimethylpentane	12.16	57	1724513	39.32985 ppb		98
38) Carbon Tetrachloride	12.28	117	952033	41.79059 ppb		97
39) Tert Amyl Methyl Ether	12.32	73	1025837	37.75571 ppb		98
40) 1,2-DCA	12.35	62	509009	39.54826 ppb		96
41) Benzene	12.48	78	2735602	37.43521 ppb		99
42) TCE	13.51	95	770083	40.60965 ppb		97

(#) = qualifier out of range (m) = manual integration
0202C10W.D CALLW.M Mon Feb 06 14:14:35 2012

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C10W.D
Acq On : 2 Feb 12 20:22
Sample : Vol Std 02-02-12@40ug/L
Misc : Water 10mLw/ IS:01-31-12C

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 2-Pentanone	13.18	43	577999	181.98344 ppb	96
44) 1,2-Dichloropropane	13.74	63	601746	36.90781 ppb	98
45) Bromodichloromethane	14.09	83	720246	42.17546 ppb	99
46) Methyl Cyclohexane	13.79	83	974706	39.75619 ppb	97
47) Dibromomethane	14.14	93	268582	42.11891 ppb	90
48) 2-Chloroethyl vinyl ether	14.55	63	176090	40.62300 ppb	90
49) 1-Bromo-2-chloroethane	14.86	63	498114	41.76473 ppb	95
50) Cis-1,3-Dichloropropene	14.98	75	830679	40.54429 ppb	97
51) Toluene	15.60	91	2886678	38.96186 ppb	96
52) Trans-1,3-Dichloropropene	15.78	75	587426	42.00620 ppb	99
53) 1,1,2-TCA	16.05	83	284022	43.18204 ppb	96
56) 1,2-EDB	17.30	107	331477	41.14964 ppb	94
57) Tetrachloroethene	16.76	164	690869	39.20948 ppb	94
58) 1-Chlorohexane	17.67	91	1032490	39.29438 ppb	94
59) 1,1,1,2-Tetrachloroethane	18.13	131	589888	41.82871 ppb	97
60) m&p-Xylene	18.32	106	2517225	75.36631 ppb	100
61) o-Xylene	19.07	106	1232345	39.78290 ppb	99
62) Styrene	19.09	104	1842254	40.49099 ppb	99
64) 2-Hexanone	16.08	43	113033	40.70830 ppb	90
65) 1,3-Dichloropropane	16.46	76	584179	40.42682 ppb	100
66) Dibromochloromethane	16.94	129	443099	43.13131 ppb	92
67) Chlorobenzene	18.07	112	1764947	38.70642 ppb	97
68) Ethylbenzene	18.19	91	3226186	38.11120 ppb	97
69) Bromoform	19.61	173	244358	44.58577 ppb	99
71) MIBK (methyl isobutyl keto	14.65	43	186740	37.74748 ppb	99
72) Isopropylbenzene	19.70	105	3072485	35.98876 ppb	99
73) 1,1,2,2-Tetrachloroethane	19.86	83	286493	39.14648 ppb	90
74) 1,2,3-Trichloropropane	20.12	110	28264	38.48526 ppb	93
75) t-1,4-Dichloro-2-Butene	20.19	53	72006	38.45031 ppb	85
76) Bromobenzene	20.44	156	717532	34.66171 ppb	94
77) n-Propylbenzene	20.40	91	3769076	36.18819 ppb	99
78) 4-Ethyltoluene	20.61	105	2263956	37.13059 ppb	100
79) 2-Chlorotoluene	20.70	91	2318105	34.64340 ppb	95
80) 1,3,5-Trimethylbenzene	20.68	105	2446383	35.82795 ppb	100
81) 4-Chlorotoluene	20.78	91	2100803	35.99403 ppb	98
82) Tert-Butylbenzene	21.32	119	2663341	35.95268 ppb	97
83) 1,2,4-Trimethylbenzene	21.38	105	2489889	35.88612 ppb	99
84) Sec-Butylbenzene	21.72	105	3447509	36.41966 ppb	99
85) p-Isopropyltoluene	21.95	119	2786503	36.55617 ppb	98
86) Benzyl Chloride	22.39	91	520078	39.85764 ppb	98
87) 1,3-DCB	22.09	146	1421292	35.93354 ppb	99
88) 1,4-DCB	22.26	146	1341979	36.49882 ppb	99
89) Hexachloroethane	23.57	117	659628	39.87697 ppb	92
90) n-Butylbenzene	22.67	91	2460255	36.58233 ppb	96
91) 1,2-DCB	22.89	146	1163915	36.52518 ppb	96
92) 1,2-Dibromo-3-chloropropan	24.11	155	45094	37.08921 ppb	86
93) 1,2,4-Trichlorobenzene	25.55	180	347008	38.02910 ppb	96
94) Hexachlorobutadiene	25.80	223	390643	38.86238 ppb	90
95) Naphthalene	25.91	128	1012223	38.66086 ppb	100
96) 1,2,3-Trichlorobenzene	26.26	180	267292	37.94915 ppb	97

Quantitation Report

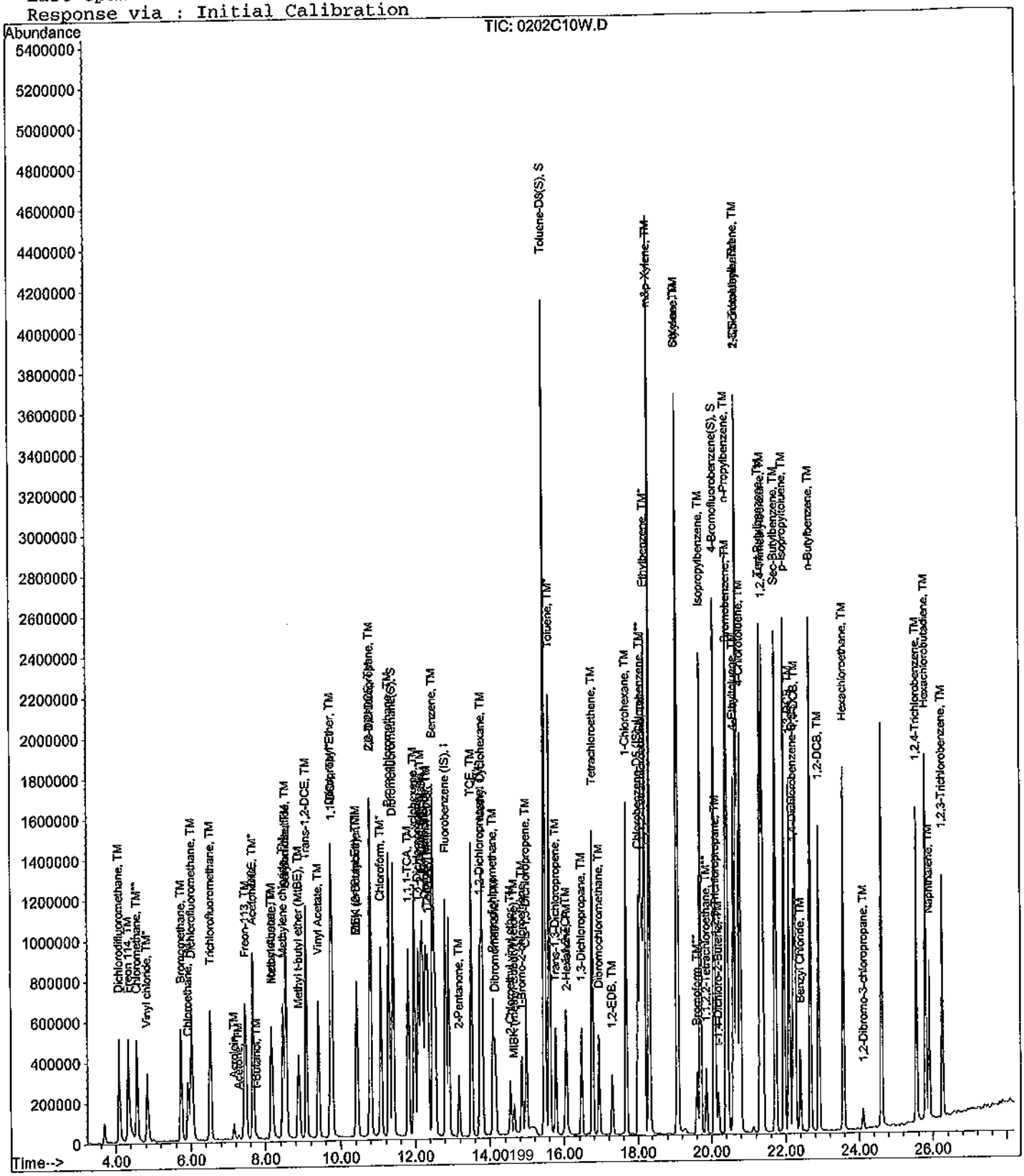
Data File : M:\CHICO\DATA\C120202\0202C10W.D
Acq On : 2 Feb 12 20:22
Sample : Vol Std 02-02-12@40ug/L
Misc : Water 10mLw/ IS:01-31-12C

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 9:42 2012

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C11W.D Vial: 1
Acq On : 2 Feb 12 20:59 Operator: RS, ARS
Sample : Vol Std 02-02-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	96	657870	25.00000	ppb	0.00
54) Chlorobenzene-D5 (IS)	18.01	117	478080	25.00000	ppb	0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	239552	25.00000	ppb	0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	1747745	98.39013	ppb	0.00
Spiked Amount 22.441			Recovery = 438.432%			
37) 1,2-DCA-D4(S)	12.20	65	1169913	93.32546	ppb	0.00
Spiked Amount 21.710			Recovery = 429.871%			
55) Toluene-D8(S)	15.47	98	6480324	90.78523	ppb	0.00
Spiked Amount 24.025			Recovery = 377.884%			
63) 4-Bromofluorobenzene(S)	20.08	95	2167301	90.91514	ppb	0.00
Spiked Amount 25.909			Recovery = 350.896%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	2245269	105.93617	ppb	95
3) Freon 114	4.34	85	1451213	97.12599	ppb	95
4) Chloromethane	4.56	50	902430	99.66563	ppb	98
5) Vinyl chloride	4.80	62	407040	62.27736	ppb	95
6) Bromomethane	5.73	94	507072	97.90863	ppb	98
7) Chloroethane	5.91	64	385593	99.51686	ppb	97
8) Dichlorofluoromethane	6.01	67	3791234	93.02069	ppb	97
9) Trichlorofluoromethane	6.51	103	502848	95.96509	ppb	98
10) Acetonitrile	7.65	41	105634	190.64042	ug/l	100
11) Acrolein	7.15	56	169504	199.21323	ppb	96
12) Acetone	7.26	43	115006	103.64341	ppb	90
13) Freon-113	7.45	101	1722496	100.13455	ppb	93
14) 1,1-DCE	7.67	96	1807525	93.04217	ppb	93
15) t-Butanol	7.76	59	10285	192.93057	ppb	97
16) Methyl Acetate	8.17	43	468276	103.82758	ppb	98
17) Iodomethane	8.16	142	3394614	104.81511	ppb	98
18) Acrylonitrile	8.55	53	172672	98.28992	ppb	99
19) Methylene chloride	8.46	84	1603386	95.36512	ppb	100
20) Carbon disulfide	8.55	76	1733120	85.90328	ppb	96
21) Methyl t-butyl ether (MtBE	8.88	73	2292236	92.49095	ppb	97
22) Trans-1,2-DCE	9.08	96	2109700	93.56858	ppb	95
23) Diisopropyl Ether	9.74	45	4953389	93.81471	ppb	100
24) 1,1-DCA	9.77	63	3171146	91.90796	ppb	100
25) Vinyl Acetate	9.41	43	314266	100.19712	ppb	90
26) Ethyl tert Butyl Ether	10.42	59	3459200	95.40967	ppb	92
27) MEK (2-Butanone)	10.41	43	131716	93.87718	ppb	92
28) Cis-1,2-DCE	10.79	96	2053346	104.95243	ppb	95
29) 2,2-Dichloropropane	10.79	77	2555044	90.15602	ppb	92
30) Chloroform	11.07	85	2004274	95.87194	ppb	98
31) Bromochloromethane	11.29	128	732066	98.93493	ppb	96
33) 1,1,1-TCA	11.81	97	2906994	98.66563	ppb	96
34) Cyclohexane	11.98	56	3021600	100.12244	ppb	99
35) 1,1-Dichloropropene	12.09	75	2455165	96.55542	ppb	99
36) 2,2,4-Trimethylpentane	12.15	57	4895375	101.87997	ppb	99
38) Carbon Tetrachloride	12.27	117	2556502	102.40466	ppb	100
39) Tert Amyl Methyl Ether	12.33	73	2696791	90.57298	ppb	97
40) 1,2-DCA	12.36	62	1309537	92.84675	ppb	96
41) Benzene	12.47	78	7346068	91.73380	ppb	99
42) TCE	13.51	95	2028472	97.61303	ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C11W.D Vial: 1
Acq On : 2 Feb 12 20:59 Operator: RS, ARS
Sample : Vol Std 02-02-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Pentanone	13.18	43	701119	201.43901 ppb		96
44)	1,2-Dichloropropane	13.74	63	1601596	89.64068 ppb		98
45)	Bromodichloromethane	14.09	83	1915494	102.35447 ppb		98
46)	Methyl Cyclohexane	13.79	83	2691755	100.18754 ppb		96
47)	Dibromomethane	14.15	93	709494	101.53039 ppb		96
48)	2-Chloroethyl vinyl ether	14.54	63	465372	97.96808 ppb		98
49)	1-Bromo-2-chloroethane	14.85	63	1309488	100.19120 ppb		94
50)	Cis-1,3-Dichloropropene	14.98	75	2204762	98.19858 ppb		100
51)	Toluene	15.61	91	7642171	94.12503 ppb		95
52)	Trans-1,3-Dichloropropene	15.77	75	1558009	101.66635 ppb		99
53)	1,1,2-TCA	16.05	83	719202	99.78130 ppb		96
56)	1,2-EDB	17.30	107	873179	95.88824 ppb	#	96
57)	Tetrachloroethene	16.76	164	1856721	93.21623 ppb		94
58)	1-Chlorohexane	17.68	91	2794224	94.07090 ppb		94
59)	1,1,1,2-Tetrachloroethane	18.12	131	1576581	98.89417 ppb		100
60)	m&p-Xylene	18.33	106	6710939	177.74114 ppb		98
61)	o-Xylene	19.07	106	3232108	92.29951 ppb		95
62)	Styrene	19.09	104	4851481	94.32626 ppb		99
64)	2-Hexanone	16.07	43	305043	97.18253 ppb		93
65)	1,3-Dichloropropane	16.47	76	1520829	93.10082 ppb		97
66)	Dibromochloromethane	16.94	129	1231333	106.02709 ppb		92
67)	Chlorobenzene	18.07	112	4723822	91.64195 ppb		97
68)	Ethylbenzene	18.18	91	8760509	91.54655 ppb		98
69)	Bromoform	19.60	173	696679	112.44803 ppb		100
71)	MIBK (methyl isobutyl keto	14.64	43	520583	100.08157 ppb		99
72)	Isopropylbenzene	19.70	105	8263159	92.41828 ppb		99
73)	1,1,2,2-Tetrachloroethane	19.86	83	784392	102.34027 ppb		94
74)	1,2,3-Trichloropropane	20.12	110	75144	97.63194 ppb		99
75)	t-1,4-Dichloro-2-Butene	20.19	53	189221	96.47955 ppb		89
76)	Bromobenzene	20.44	156	1901056	87.68764 ppb		92
77)	n-Propylbenzene	20.41	91	9991825	91.60337 ppb		99
78)	4-Ethyltoluene	20.61	105	5777141	90.47146 ppb		100
79)	2-Chlorotoluene	20.71	91	6241679	89.06837 ppb		94
80)	1,3,5-Trimethylbenzene	20.68	105	6704899	93.76148 ppb		99
81)	4-Chlorotoluene	20.78	91	5447811	89.12548 ppb		97
82)	Tert-Butylbenzene	21.32	119	6979393	89.96153 ppb		96
83)	1,2,4-Trimethylbenzene	21.38	105	6660345	91.65959 ppb		96
84)	Sec-Butylbenzene	21.72	105	9218411	92.98680 ppb		98
85)	p-Isopropyltoluene	21.95	119	7490835	93.83527 ppb		98
86)	Benzyl Chloride	22.39	91	1385079	101.35667 ppb		96
87)	1,3-DCB	22.09	146	3701371	89.35401 ppb		99
88)	1,4-DCB	22.26	146	3501109	90.92293 ppb		99
89)	Hexachloroethane	23.56	117	1742529	99.62681 ppb		94
90)	n-Butylbenzene	22.66	91	6546283	92.94386 ppb		97
91)	1,2-DCB	22.89	146	2968881	88.96079 ppb		95
92)	1,2-Dibromo-3-chloropropan	24.10	155	118411	92.99415 ppb		88
93)	1,2,4-Trichlorobenzene	25.55	180	892726	93.41777 ppb		96
94)	Hexachlorobutadiene	25.80	223	1043236	99.32109 ppb		92
95)	Naphthalene	25.90	128	2533556	92.39757 ppb		98
96)	1,2,3-Trichlorobenzene	26.26	180	645334	87.48537 ppb		96

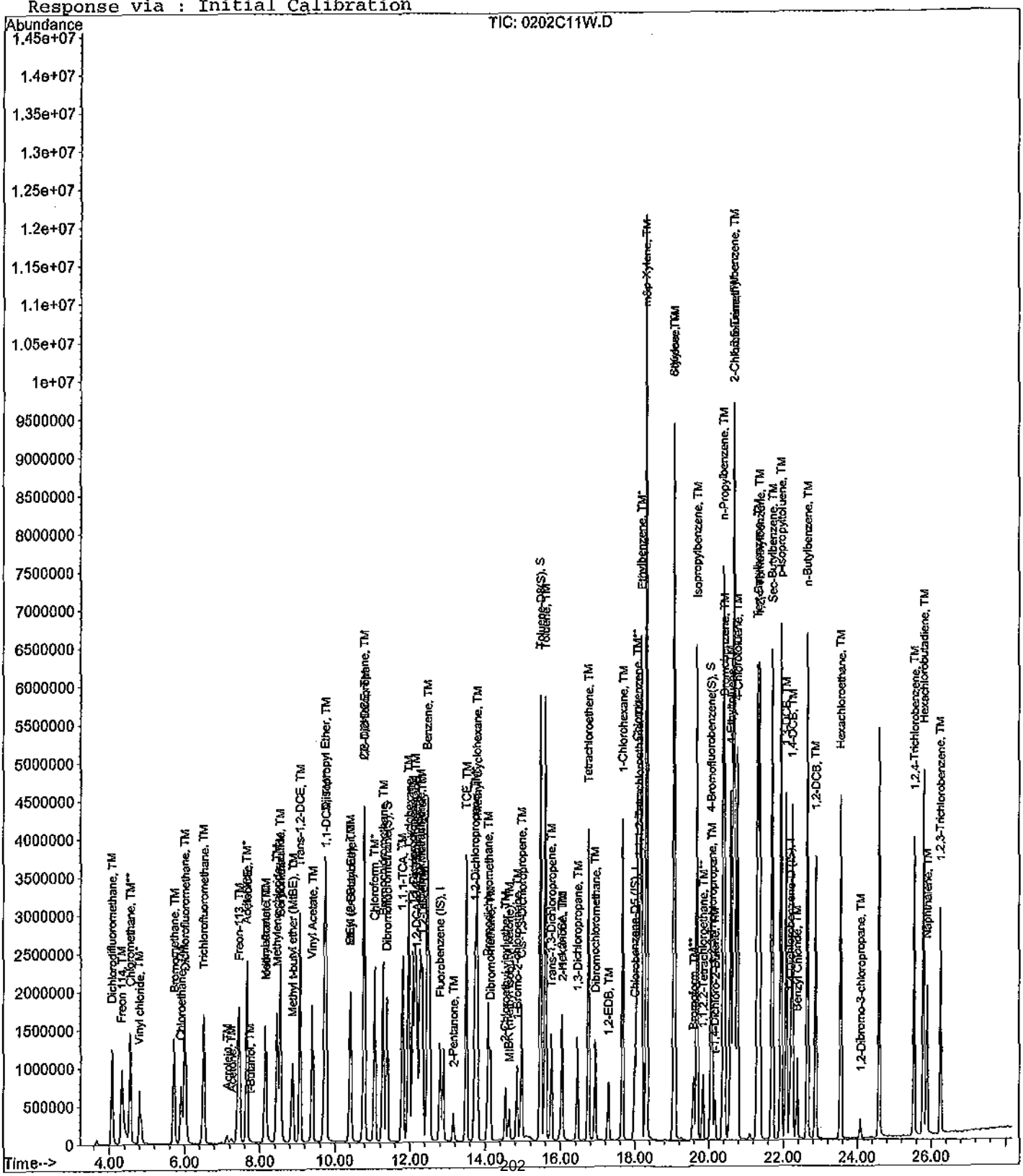
(#) = qualifier out of range (m) = manual integration
0202C11W.D CALLW.M Mon Feb 06 14:14:44 2012

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0202C11W.D Vial: 1
Acq On : 2 Feb 12 20:59 Operator: RS, ARS
Sample : Vol Std 02-02-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C12W.D Vial: 1
Acq On : 2 Feb 12 21:36 Operator: RS, ARS
Sample : Vol Std 02-02-12@200ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	697741	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	464128	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	230272	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	2153919	114.32696 ppb		0.00
Spiked Amount 22.441			Recovery = 509.448%			
37) 1,2-DCA-D4(S)	12.20	65	1418036	106.65462 ppb		0.00
Spiked Amount 21.710			Recovery = 491.271%			
55) Toluene-D8(S)	15.48	98	7973006	115.05444 ppb		0.00
Spiked Amount 24.025			Recovery = 478.902%			
63) 4-Bromofluorobenzene(S)	20.07	95	2601684	112.41760 ppb		0.00
Spiked Amount 25.909			Recovery = 433.889%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	4290839	190.88154 ppb		97
3) Freon 114	4.34	85	2794769	176.35836 ppb		90
4) Chloromethane	4.57	50	1723698	179.48944 ppb		97
5) Vinyl chloride	4.80	62	993536	143.32519 ppb		93
6) Bromomethane	5.73	94	978240	178.09126 ppb		96
7) Chloroethane	5.91	64	736798	179.89002 ppb		98
8) Dichlorofluoromethane	6.01	67	7535970	174.33476 ppb		98
9) Trichlorofluoromethane	6.51	103	922688	166.02644 ppb		99
10) Acetonitrile	7.64	41	117415	199.79319 ug/l		100
11) Acrolein	7.15	56	188342	208.70423 ppb		95
12) Acetone	7.27	43	230943	198.20134 ppb		90
13) Freon-113	7.45	101	3313489	181.61725 ppb		93
14) 1,1-DCE	7.67	96	3617580	175.57371 ppb		89
15) t-Butanol	7.66	59	48144	851.50022 ppb	#	80
16) Methyl Acetate	8.17	43	937533	197.52588 ppb		98
17) Iodomethane	8.16	142	6770619	197.53528 ppb		99
18) Acrylonitrile	8.55	53	349104	187.36469 ppb		98
19) Methylene chloride	8.46	84	3183435	178.52264 ppb		99
20) Carbon disulfide	8.55	76	3213312	150.16885 ppb		96
21) Methyl t-butyl ether (MtBE	8.88	73	4548335	173.03668 ppb		97
22) Trans-1,2-DCE	9.08	96	4196346	175.47953 ppb		93
23) Diisopropyl Ether	9.73	45	9619548	171.77859 ppb		98
24) 1,1-DCA	9.77	63	6280311	171.61841 ppb		99
25) Vinyl Acetate	9.40	43	581998	175.22511 ppb		91
26) Ethyl tert Butyl Ether	10.42	59	6727759	174.95767 ppb		94
27) MEK (2-Butanone)	10.41	43	247626	166.40394 ppb		95
28) Cis-1,2-DCE	10.80	96	4051522	197.00876 ppb		94
29) 2,2-Dichloropropane	10.79	77	5073622	168.79527 ppb		94
30) Chloroform	11.07	85	4014379	181.05004 ppb		96
31) Bromochloromethane	11.30	128	1408392	179.46047 ppb		93
33) 1,1,1-TCA	11.81	97	5709137	182.69979 ppb		96
34) Cyclohexane	11.98	56	5940782	185.60254 ppb		98
35) 1,1-Dichloropropene	12.08	75	4861151	180.25234 ppb		99
36) 2,2,4-Trimethylpentane	12.16	57	9666522	189.67886 ppb		99
38) Carbon Tetrachloride	12.28	117	5078945	191.81958 ppb		97
39) Tert Amyl Methyl Ether	12.32	73	5208252	164.92602 ppb		96
40) 1,2-DCA	12.35	62	2558043	171.00257 ppb		93
41) Benzene	12.48	78	14763160	173.81994 ppb		98
42) TCE	13.51	95	3937074	178.63155 ppb		96

(#) = qualifier out of range (m) = manual integration
0202C12W.D CALLW.M Mon Feb 06 14:14:51 2012

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0202C12W.D Vial: 1
Acq On : 2 Feb 12 21:36 Operator: RS, ARS
Sample : Vol Std 02-02-12@200ug/L Inst : Chico
Misc : Water 10mLw/ IS:01-31-12C Multiplr: 1.00

Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
43)	2-Pentanone	13.18	43	793557	214.96899 ppb		98
44)	1,2-Dichloropropane	13.74	63	3124868	164.90342 ppb		97
45)	Bromodichloromethane	14.09	83	3811139	192.01124 ppb		98
46)	Methyl Cyclohexane	13.80	83	5303181	186.10605 ppb		94
47)	Dibromomethane	14.14	93	1388413	187.33194 ppb		93
48)	2-Chloroethyl vinyl ether	14.55	63	938450	186.26932 ppb		96
49)	1-Bromo-2-chloroethane	14.86	63	2593808	187.11634 ppb		94
50)	Cis-1,3-Dichloropropene	14.98	75	4362015	183.17934 ppb		99
51)	Toluene	15.60	91	15083848	175.16460 ppb		94
52)	Trans-1,3-Dichloropropene	15.77	75	3053967	187.89596 ppb		97
53)	1,1,2-TCA	16.05	83	1395122	182.49723 ppb		97
56)	1,2-EDB	17.30	107	1715529	194.05414 ppb	#	98
57)	Tetrachloroethene	16.76	164	3672670	189.92825 ppb		94
58)	1-Chlorohexane	17.67	91	5473378	189.80704 ppb		94
59)	1,1,1,2-Tetrachloroethane	18.13	131	3113047	201.14205 ppb		100
60)	m&p-Xylene	18.32	106	15622713	426.21028 ppb	#	44
61)	o-Xylene	19.07	106	6286185	184.91133 ppb		96
62)	Styrene	19.09	104	9342030	187.09507 ppb		97
64)	2-Hexanone	16.08	43	612346	200.94945 ppb		94
65)	1,3-Dichloropropane	16.46	76	2950788	186.06896 ppb		97
66)	Dibromochloromethane	16.94	129	2447577	217.09033 ppb		91
67)	Chlorobenzene	18.07	112	9281405	185.47157 ppb		97
68)	Ethylbenzene	18.19	91	17047477	183.49978 ppb		96
69)	Bromoform	19.61	173	1379982	229.43273 ppb		98
71)	MIBK (methyl isobutyl keto	14.65	43	1003199	200.39621 ppb		97
72)	Isopropylbenzene	19.71	105	16198091	188.46655 ppb		98
73)	1,1,2,2-Tetrachloroethane	19.86	83	1526953	207.25152 ppb		92
74)	1,2,3-Trichloropropane	20.12	110	149056	201.42154 ppb		98
75)	t-1,4-Dichloro-2-Butene	20.19	53	369911	196.21032 ppb		86
76)	Bromobenzene	20.44	156	3694606	177.28430 ppb		95
77)	n-Propylbenzene	20.41	91	18882720	180.09011 ppb		96
78)	4-Ethyltoluene	20.61	105	11827149	192.68032 ppb		99
79)	2-Chlorotoluene	20.70	91	11693368	173.58826 ppb		95
80)	1,3,5-Trimethylbenzene	20.68	105	12652372	184.06145 ppb		98
81)	4-Chlorotoluene	20.78	91	10838367	184.46006 ppb		98
82)	Tert-Butylbenzene	21.32	119	13575392	182.03305 ppb		97
83)	1,2,4-Trimethylbenzene	21.38	105	12928197	185.08781 ppb		97
84)	Sec-Butylbenzene	21.72	105	17797308	186.75758 ppb		94
85)	p-Isopropyltoluene	21.96	119	14413429	187.82867 ppb		97
86)	Benzyl Chloride	22.39	91	2625876	199.89901 ppb		97
87)	1,3-DCB	22.09	146	7202836	180.88960 ppb		99
88)	1,4-DCB	22.26	146	6704682	181.13595 ppb		98
89)	Hexachloroethane	23.57	117	3377192	200.22764 ppb		88
90)	n-Butylbenzene	22.67	91	12559014	185.49839 ppb		97
91)	1,2-DCB	22.89	146	5635191	175.66010 ppb		94
92)	1,2-Dibromo-3-chloropropan	24.11	155	239793	195.91097 ppb		98
93)	1,2,4-Trichlorobenzene	25.55	180	1641060	178.64648 ppb		95
94)	Hexachlorobutadiene	25.81	223	2023406	200.54755 ppb		93
95)	Naphthalene	25.91	128	4747245	180.10691 ppb		98
96)	1,2,3-Trichlorobenzene	26.26	180	1258665	177.50872 ppb		95

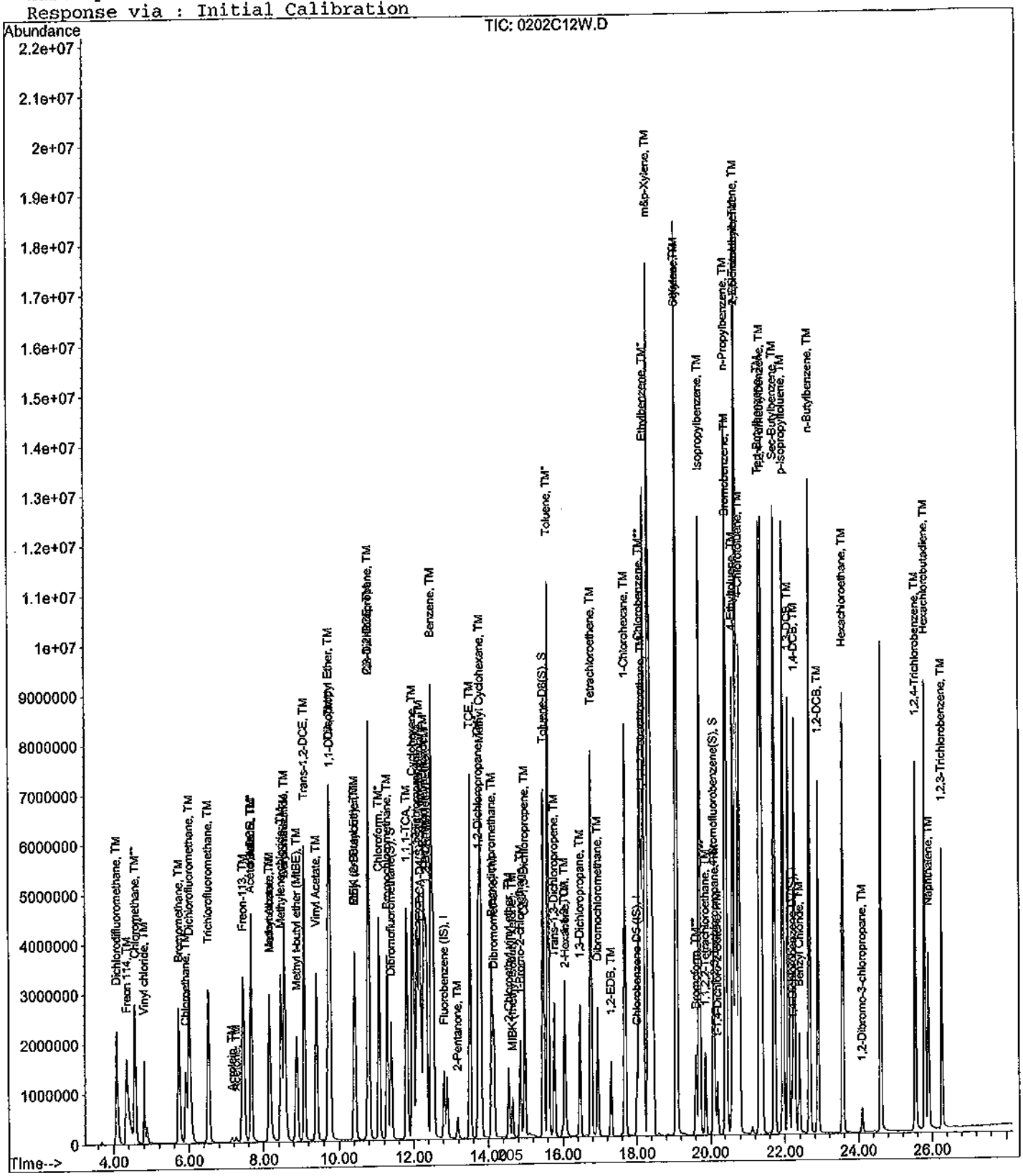
Quantitation Report

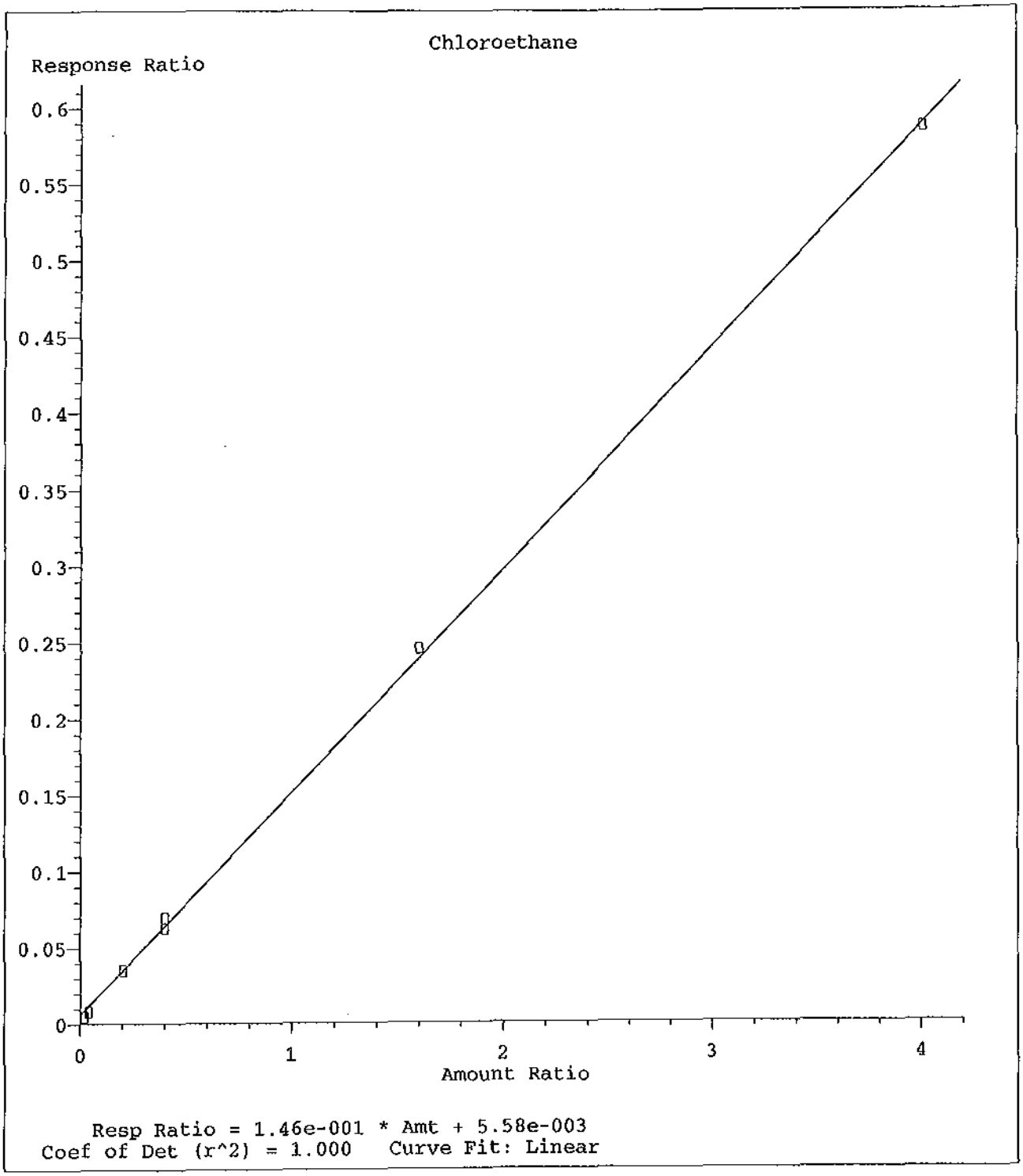
Data File : M:\CHICO\DATA\C120202\0202C12W.D
Acq On : 2 Feb 12 21:36
Sample : Vol Std 02-02-12@200ug/L
Misc : Water 10mLw/ IS:01-31-12C

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

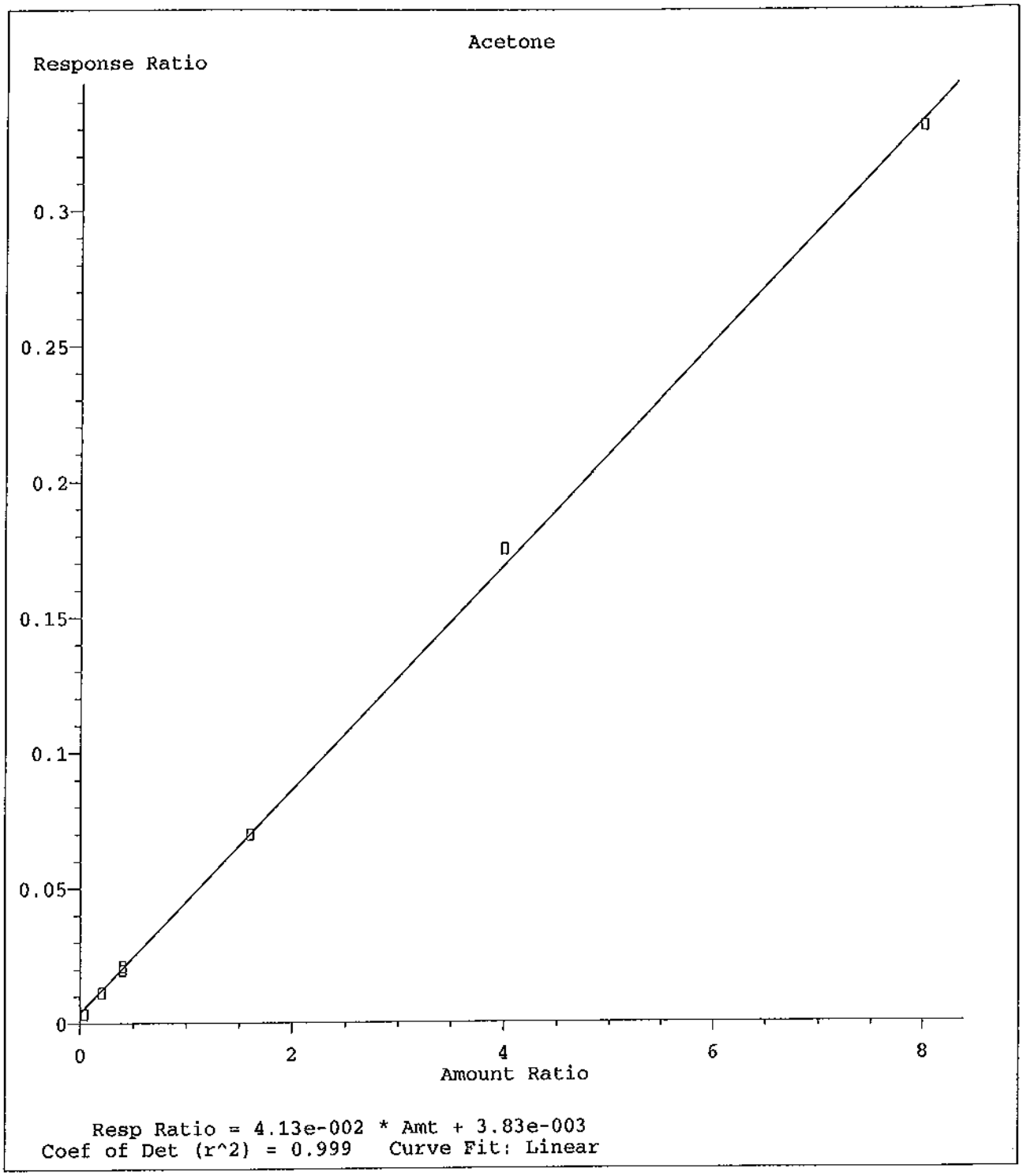
Quant Time: Feb 3 9:42 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Mon Feb 06 14:05:44 2012
Response via : Initial Calibration

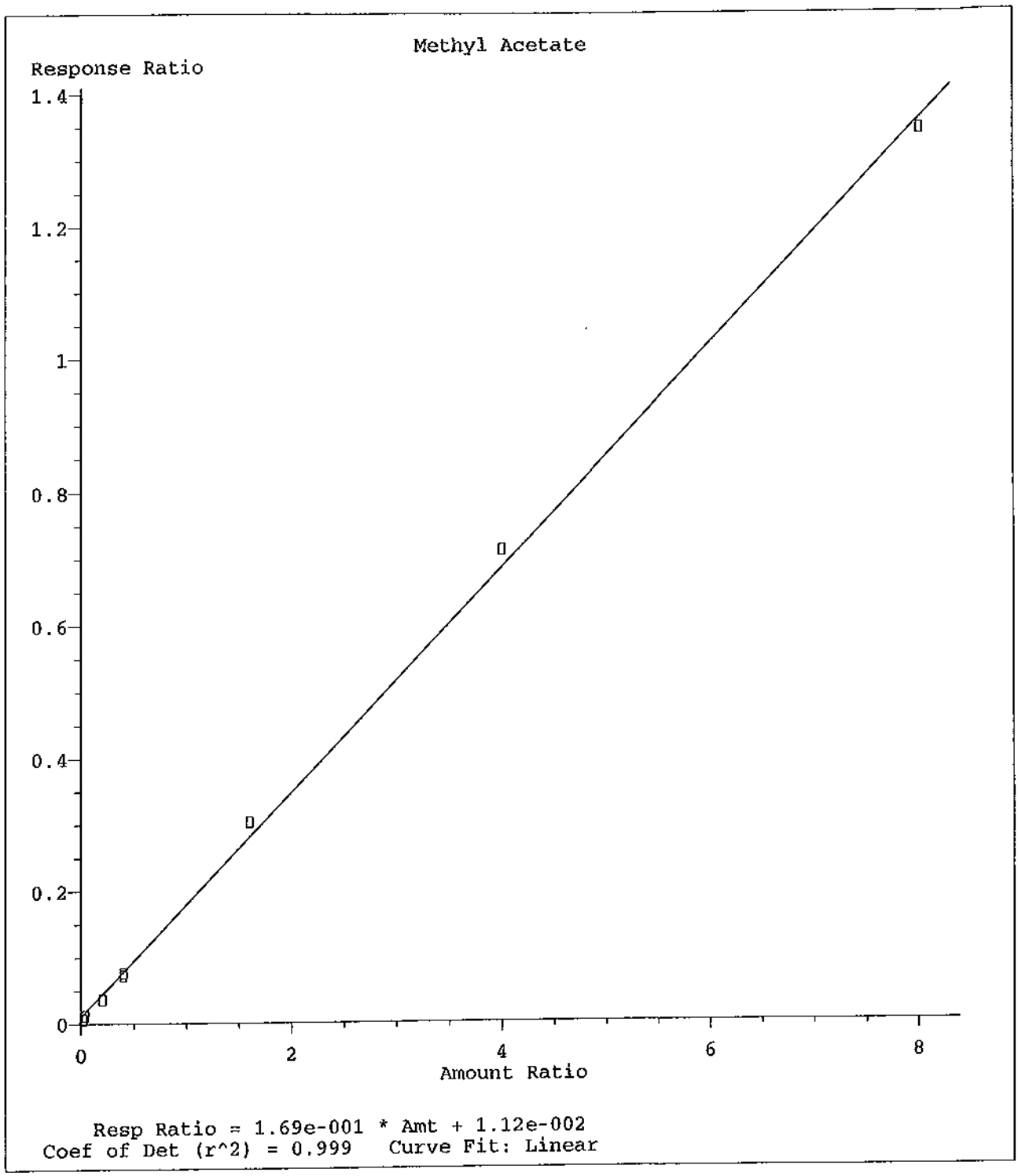




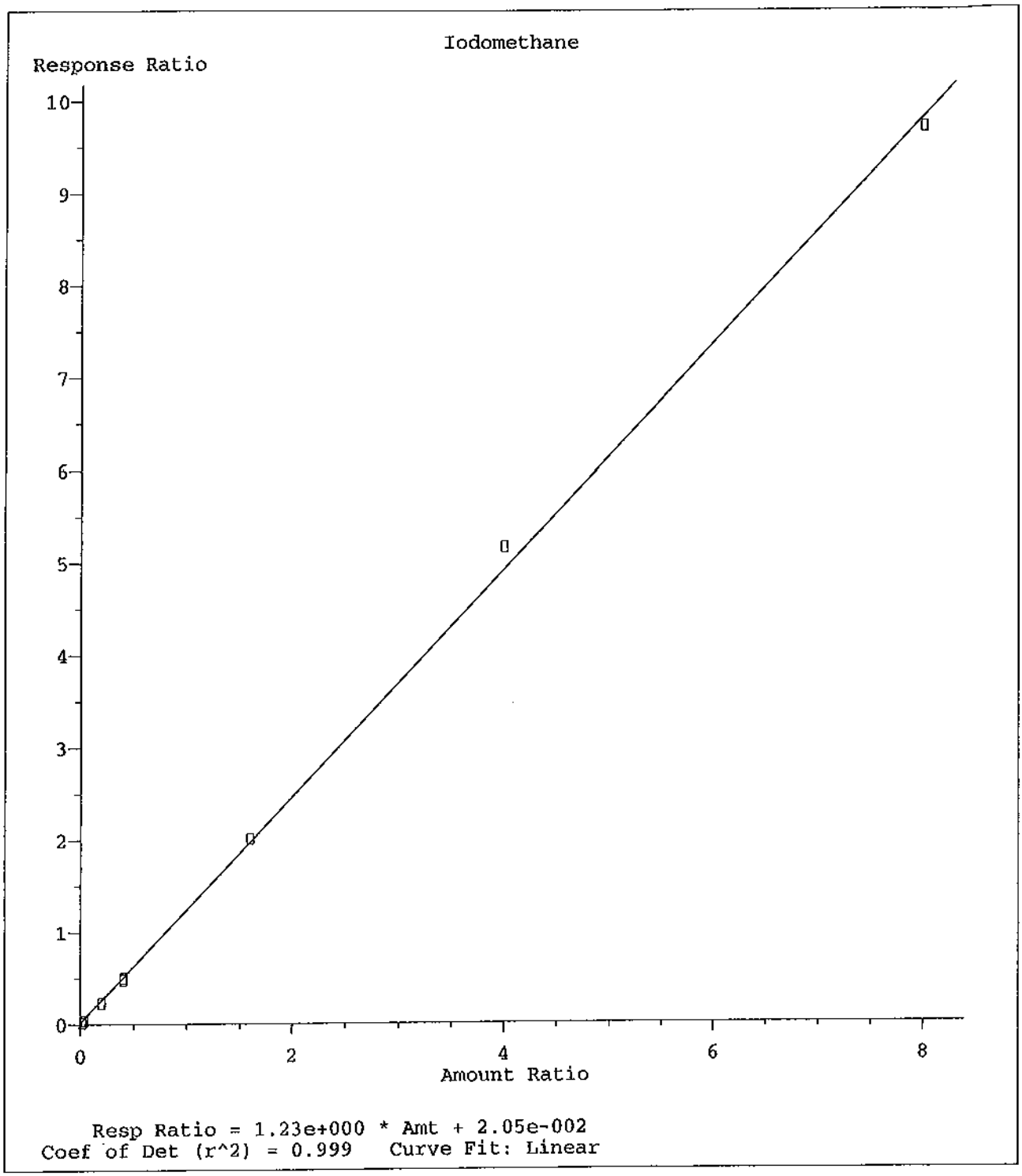
Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



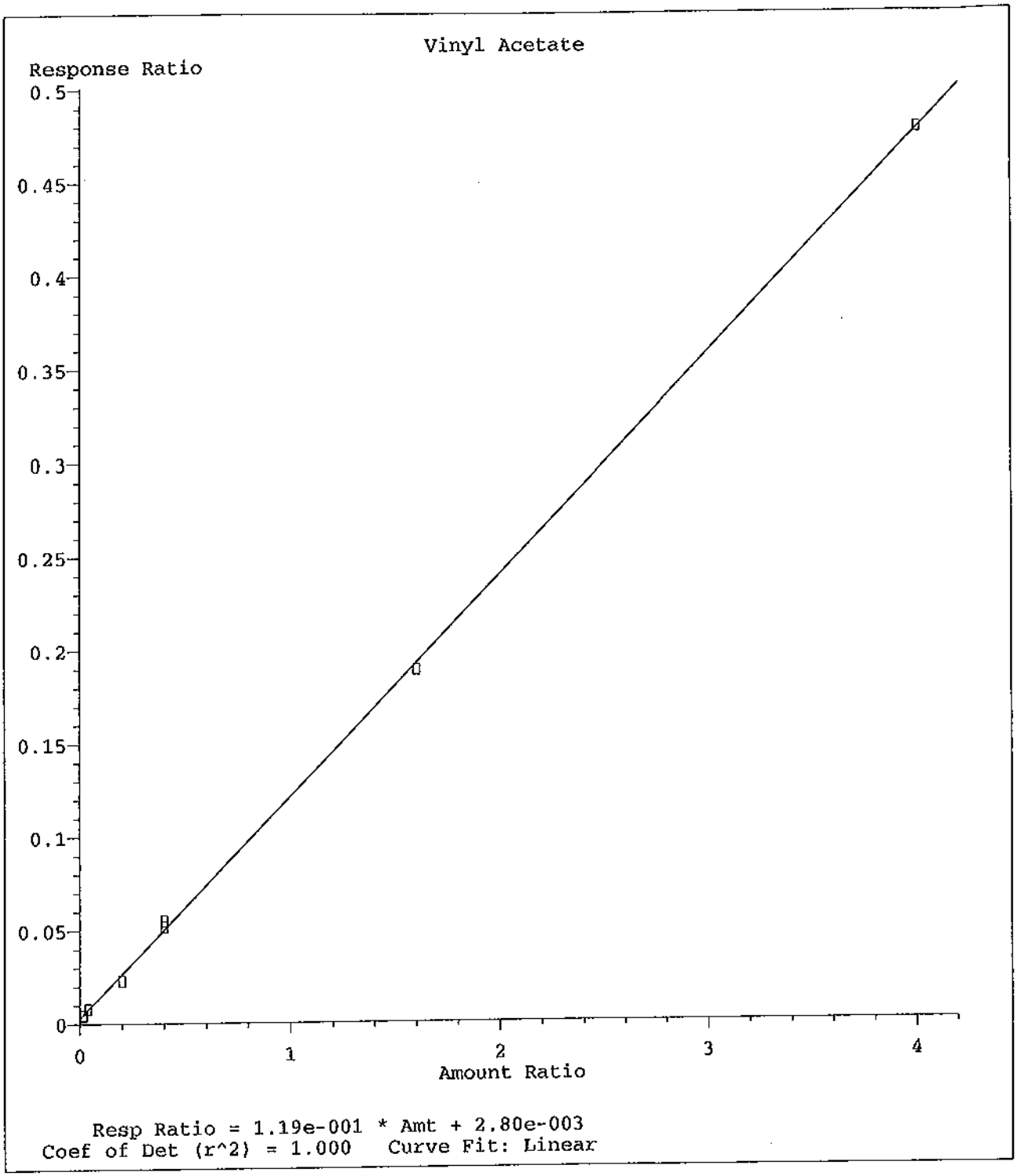
Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



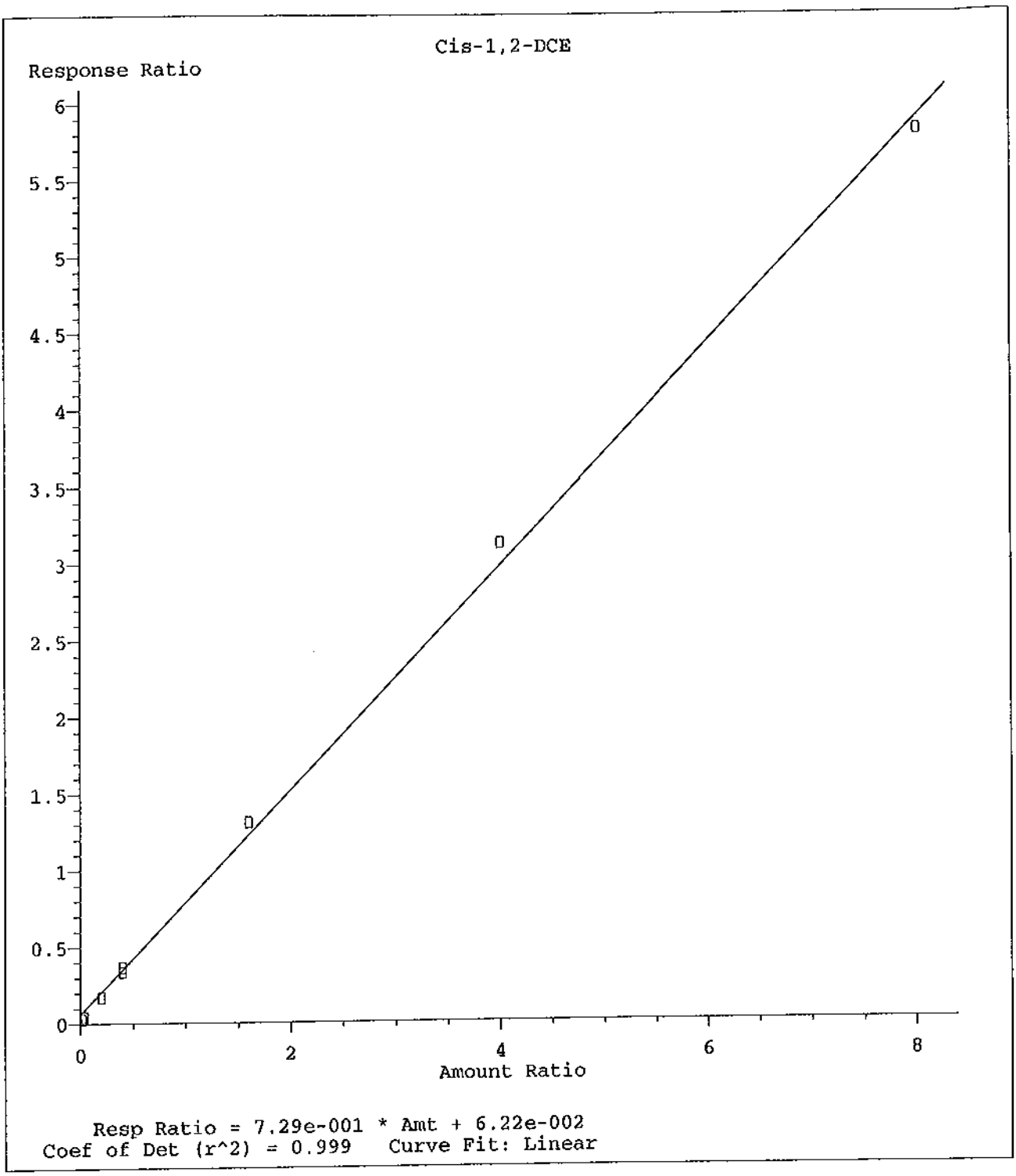
Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



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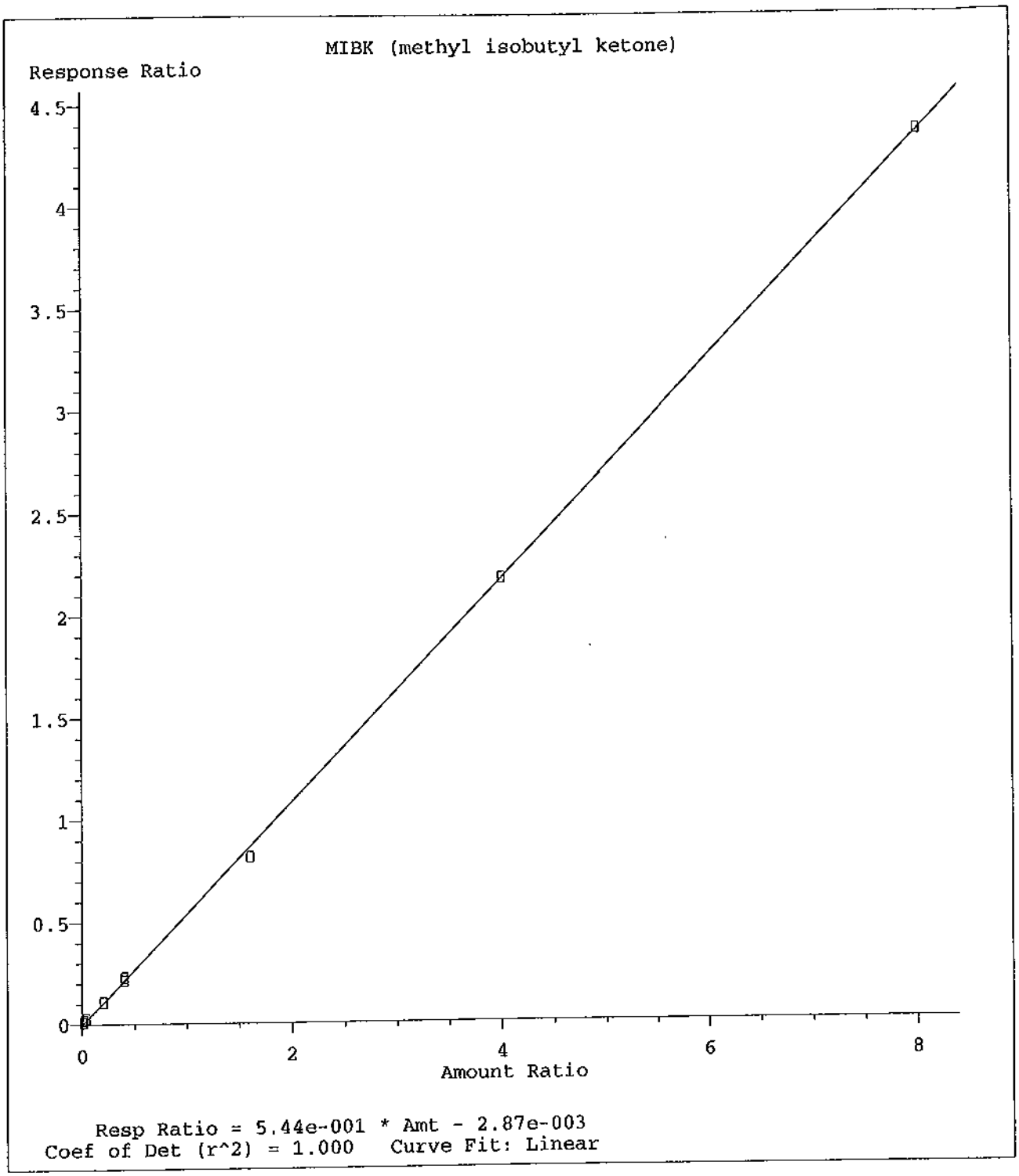
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



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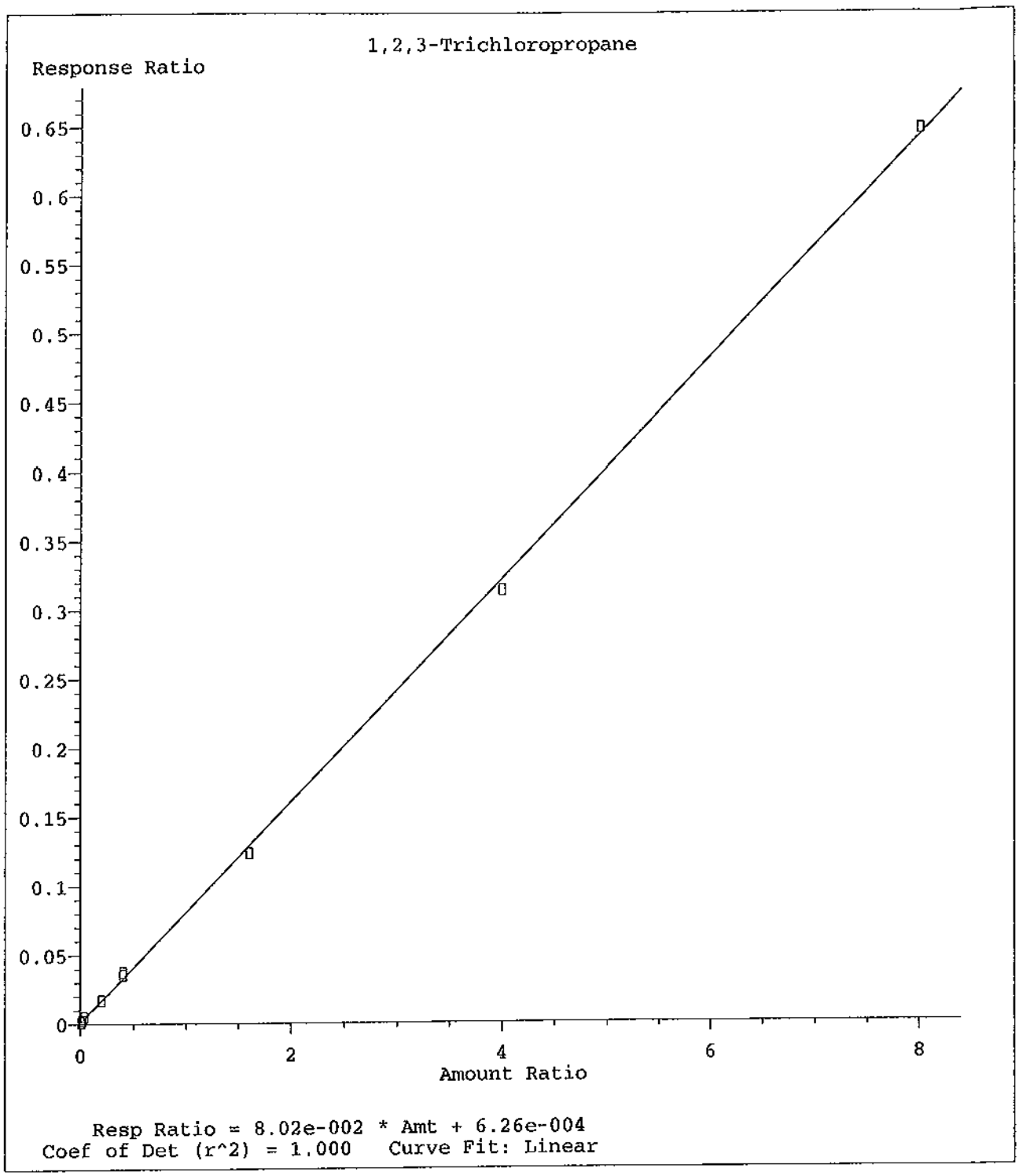
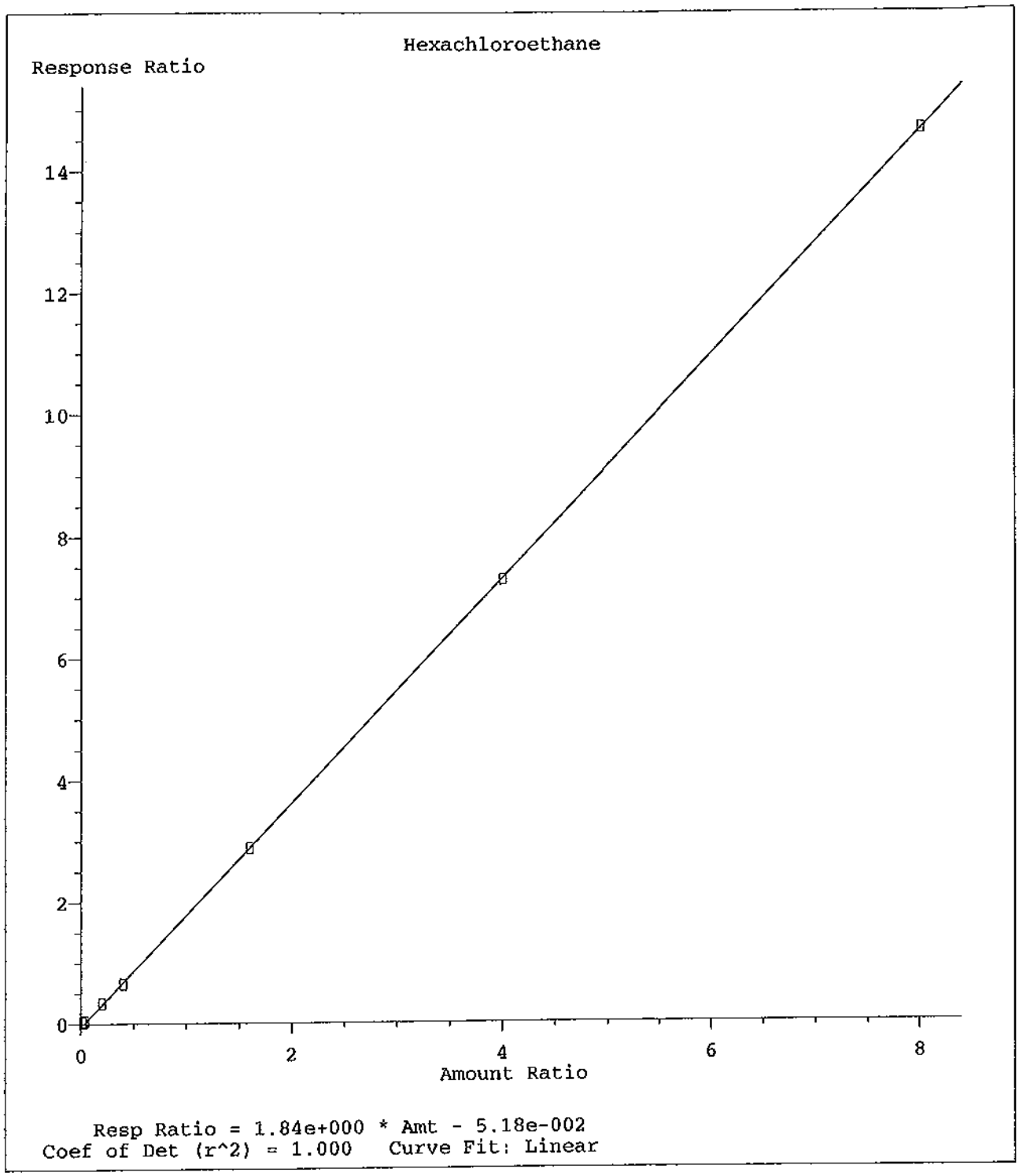
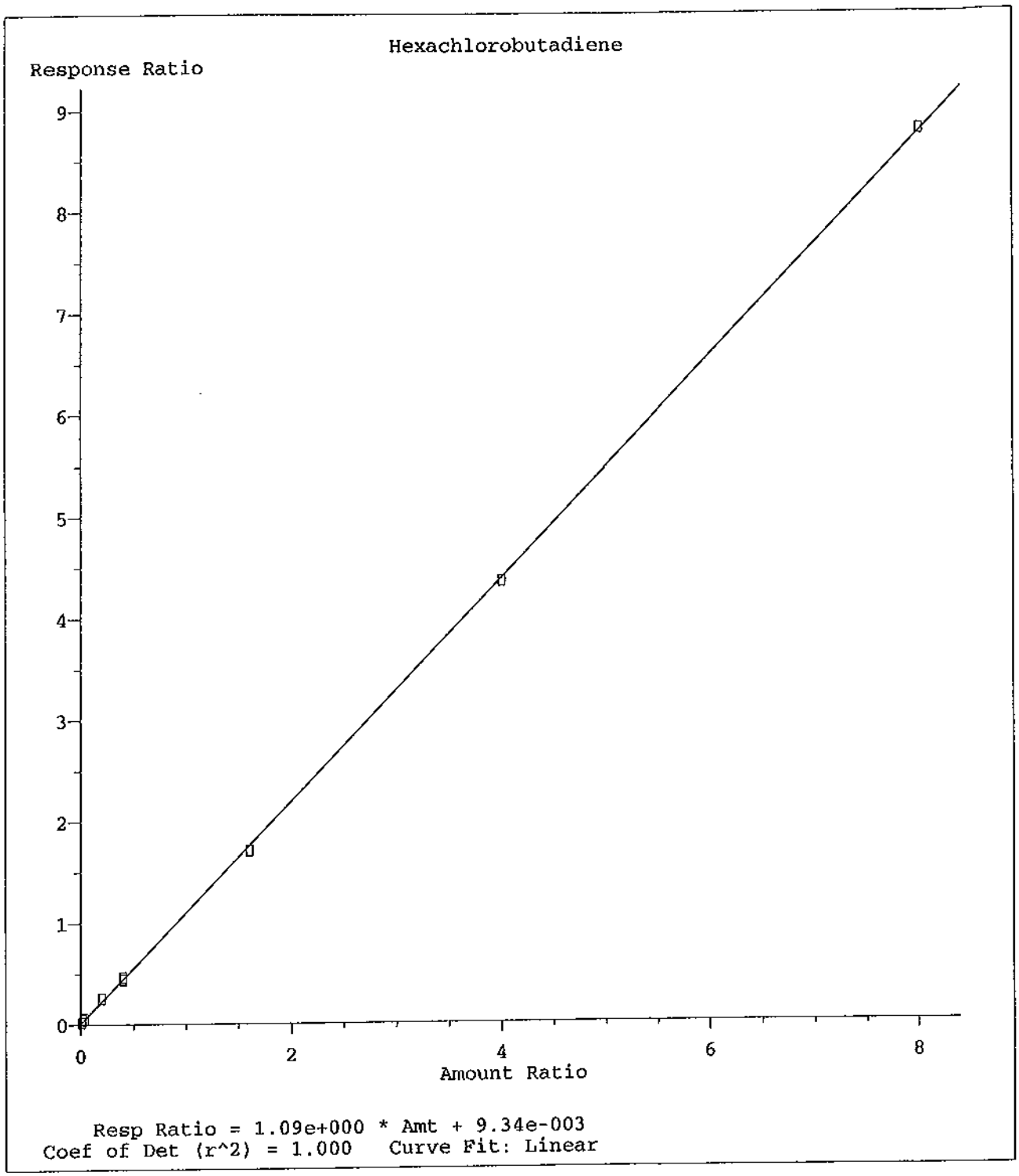
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012



Method Name: M:\CHICO\DATA\C120202\CALLW.M
Calibration Table Last Updated: Mon Feb 06 14:05:44 2012

VOLATILE ORGANIC ANALYSIS BY EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66972
Date Analyzed: 3 Feb 12 12:35
Instrument: Chico
Initial Cal. Date: 02/02/12
Data File: 0203C05W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.8054	0.7124	12	TM		
3	TM	Freon 114	0.5678	0.5619	1.0	TM		
4	TM**	Chloromethane	0.3441	0.3657	6.3	TM**	✓	
5	TM*	Vinyl chloride	0.2484	0.2331	6.1	TM*	✓	
6	TM	Bromomethane	0.1968	0.2027	3.0	TM		
7	TML	Chloroethane	0.1738	0.1677	3.5	TML	7.3	
8	TM	Dichlorofluoromethane	1.549	1.640	5.9	TM		
9	TM	Trichlorofluoromethane	0.1991	0.1819	8.6	TM		
10		Acetonitrile	0.0211	0.0276	31			*NT
11	TM	Acrolein	0.0323	0.0363	12	TM		
12	TML	Acetone	0.0531	0.0528	0.47	TML	5.9	
13	TM	Freon-113	0.6537	0.6638	1.5	TM		
14	TM*	1,1-DCE	0.7383	0.7425	0.57	TM*	✓	
15	TM	t-Butanol	0.0020	0.0027	35	TM		*NT
16	TML	Methyl Acetate	0.2162	0.2086	3.5	TML	6.5	
17	TML	Iodomethane	1.117	1.237	11	TML	3.8	
18	TM	Acrylonitrile	0.0668	0.0766	15	TM		
19	TM	Methylene chloride	0.6389	0.7038	10	TM		
20	TM	Carbon disulfide	0.7667	0.8023	4.7	TM		
21	TM	Methyl t-butyl ether (MtBE)	0.9418	1.046	11	TM		
22	TM	Trans-1,2-DCE	0.8568	0.8922	4.1	TM		
23	TM	Diisopropyl Ether	2.006	2.232	11	TM		
24	TM**	1,1-DCA	1.311	1.364	4.0	TM**	✓	
25	TML	Vinyl Acetate	0.1503	0.1177	22	TML	4.5	
26	TM	Ethyl tert Butyl Ether	1.378	1.559	13	TM		
27	TM	MEK (2-Butanone)	0.0533	0.0628	18	TM		
28	TML	Cis-1,2-DCE	0.9225	0.9331	1.2	TML	7.5	
29	TM	2,2-Dichloropropane	1.077	1.180	9.6	TM		
30	TM*	Chloroform	0.7944	0.8500	7.0	TM*	✓	
31	TM	Bromochloromethane	0.2812	0.3130	11	TM		
32	S	Dibromofluoromethane(S)	0.6750	0.6845	1.4	S		
33	TM	1,1,1-TCA	1.120	1.192	6.5	TM		
34	TM	Cyclohexane	1.147	1.124	2.0	TM		
35	TM	1,1-Dichloropropene	0.9663	1.026	6.1	TM		
36	TM	2,2,4-Trimethylpentane	1.826	1.800	1.4	TM		
37	S	1,2-DCA-D4(S)	0.4764	0.4898	2.8	S		
38	TM	Carbon Tetrachloride	0.9487	0.9844	3.8	TM		
39	TM	Tert Amyl Methyl Ether	1.131	1.189	5.1	TM		
40	TM	1,2-DCA	0.5360	0.5928	11	TM		
		Average			8.3			

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66972
Date Analyzed: 3 Feb 12 12:35
Instrument: Chico
Cal. Date: 02/02/12
Data File: 0203C05W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	Benzene	3.043	3.073	0.98	TM	
42	TM	TCE	0.7897	0.8598	8.9	TM	
43	TM	2-Pentanone	0.1323	0.1549	17	TM	
44	TM*	1,2-Dichloropropane	0.6790	0.6968	2.6	TM*	
45	TM	Bromodichloromethane	0.7112	0.7639	7.4	TM	
46	TM	Methyl Cyclohexane	1.021	1.008	1.3	TM	
47	TM	Dibromomethane	0.2656	0.3027	14	TM	
48	TM	2-Chloroethyl vinyl ether	0.1805	0.1879	4.1	TM	
49	TM	1-Bromo-2-chloroethane	0.4967	0.5560	12	TM	
50	TM	Cis-1,3-Dichloropropene	0.8532	0.9399	10	TM	
51	TM*	Toluene	3.085	3.161	2.4	TM*	
52	TM	Trans-1,3-Dichloropropene	0.5824	0.6272	7.7	TM	
53	TM	1,1,2-TCA	0.2739	0.3138	15	TM	
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	3.733	3.428	8.2	S	
56	TM	1,2-EDB	0.4762	0.5168	8.5	TM	
57	TM	Tetrachloroethene	1.042	1.061	1.9	TM	
58	TM	1-Chlorohexane	1.553	1.510	2.8	TM	
59	TM	1,1,1,2-Tetrachloroethane	0.8337	0.9160	9.9	TM	
60	TM	m&p-Xylene	1.974	1.927	2.4	TM	
61	TM	o-Xylene	1.831	1.932	5.5	TM	
62	TM	Styrene	2.690	2.904	8.0	TM	
63	S	4-Bromofluorobenzene(S)	1.247	1.182	5.2	S	
64	TM	2-Hexanone	0.1641	0.1874	14	TM	
65	TM	1,3-Dichloropropane	0.8542	0.9324	9.2	TM	
66	TM	Dibromochloromethane	0.6073	0.6684	10	TM	
67	TM**	Chlorobenzene	2.696	2.819	4.6	TM**	
68	TM*	Ethylbenzene	5.004	5.004	0.00	TM*	
69	TM**	Bromoform	0.3240	0.3394	4.8	TM**	
70	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
71	TML	MIBK (methyl isobutyl ketone)	0.6363	0.5909	7.1	TML	11
72	TM	Isopropylbenzene	9.331	9.223	1.2	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.7999	0.8893	11	TM**	
74	TML	1,2,3-Trichloropropane	0.0951	0.0838	12	TML	4.7
75	TM	t-1,4-Dichloro-2-Butene	0.2047	0.2081	1.7	TM	
76	TM	Bromobenzene	2.263	2.205	2.5	TM	
77	TM	n-Propylbenzene	11.4	11.2	1.5	TM	
78	TM	4-Ethyltoluene	6.664	6.463	3.0	TM	
79	TM	2-Chlorotoluene	7.313	7.247	0.91	TM	
80	TM	1,3,5-Trimethylbenzene	7.463	7.548	1.1	TM	
		Average			6.3		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66972
Date Analyzed: 3 Feb 12 12:35
Instrument: Chico
Cal. Date: 02/02/12
Data File: 0203C05W.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	4-Chlorotoluene	6.379	6.076	4.7	TM	
82	TM	Tert-Butylbenzene	8.097	7.834	3.2	TM	
83	TM	1,2,4-Trimethylbenzene	7.583	7.584	0.00	TM	
84	TM	Sec-Butylbenzene	10.3	10.1	2.8	TM	
85	TM	p-Isopropyltoluene	8.331	8.262	0.82	TM	
86	TM	Benzyl Chloride	1.426	1.622	14	TM	
87	TM	1,3-DCB	4.323	4.356	0.77	TM	
88	TM	1,4-DCB	4.019	4.101	2.0	TM	
89	TML	Hexachloroethane	1.527	1.680	10	TML	2.2
90	TM	n-Butylbenzene	7.350	7.374	0.33	TM	
91	TM	1,2-DCB	3.483	3.620	3.9	TM	
92	TM	1,2-Dibromo-3-chloropropane	0.1329	0.1465	10	TM	
93	TM	1,2,4-Trichlorobenzene	0.9973	1.152	16	TM	
94	TML	Hexachlorobutadiene	1.372	1.167	15	TML	5.2
95	TM	Naphthalene	2.862	3.353	17	TM	
96	TM	1,2,3-Trichlorobenzene	0.7698	0.8789	14	TM	
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			7.2		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C05W.D Vial: 1
Acq On : 3 Feb 12 12:35 Operator: RS, ARS
Sample : 120203A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 13:03 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.81	96	584886	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.01	117	417536	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.21	152	217792	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	359363	22.75494 ppb		0.00
Spiked Amount 22.441			Recovery = 101.398%			
37) 1,2-DCA-D4(S)	12.20	65	248763	22.32036 ppb		0.00
Spiked Amount 21.710			Recovery = 102.810%			
55) Toluene-D8(S)	15.47	98	1375483	22.06380 ppb		0.00
Spiked Amount 24.025			Recovery = 91.839%			
63) 4-Bromofluorobenzene(S)	20.08	95	511596	24.57258 ppb		0.00
Spiked Amount 25.909			Recovery = 94.842%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	166675	8.84535 ppb		99
3) Freon 114	4.32	85	131449	9.89533 ppb		92
4) Chloromethane	4.55	50	85553	10.62762 ppb		98
5) Vinyl chloride	4.81	62	54536	9.38524 ppb		97
6) Bromomethane	5.72	94	47432	10.30129 ppb		99
7) Chloroethane	5.92	64	39237	10.73000 ppb		99
8) Dichlorofluoromethane	6.00	67	383618	10.58685 ppb		99
9) Trichlorofluoromethane	6.51	103	42560	9.13581 ppb		94
10) Acetonitrile	7.65	41	80741	163.89822 ug/l		100
11) Acrolein	7.14	56	106227	140.42421 ppb		94
12) Acetone	7.27	43	12357	10.58858 ppb	#	66
13) Freon-113	7.44	101	155296	10.15441 ppb		94
14) 1,1-DCE	7.66	96	173700	10.05690 ppb		94
15) t-Butanol	7.76	59	8025	169.32093 ppb	#	76
16) Methyl Acetate	8.18	43	48811	10.64983 ppb		99
17) Iodomethane	8.15	142	289505	9.61736 ppb		94
18) Acrylonitrile	8.55	53	17922	11.47473 ppb		82
19) Methylene chloride	8.46	84	164658	11.01547 ppb		100
20) Carbon disulfide	8.54	76	187712	10.46507 ppb		97
21) Methyl t-butyl ether (MtBE	8.89	73	244670	11.10426 ppb		95
22) Trans-1,2-DCE	9.08	96	208738	10.41309 ppb		95
23) Diisopropyl Ether	9.74	45	522183	11.12398 ppb		99
24) 1,1-DCA	9.77	63	319116	10.40290 ppb		98
25) Vinyl Acetate	9.41	43	27536	9.54785 ppb	#	75
26) Ethyl tert Butyl Ether	10.42	59	364705	11.31429 ppb		94
27) MEK (2-Butanone)	10.42	43	14703	11.78681 ppb		91
28) Cis-1,2-DCE	10.79	96	218306	10.75243 ppb		99
29) 2,2-Dichloropropane	10.79	77	276063	10.95654 ppb		95
30) Chloroform	11.07	85	198859	10.69913 ppb		100
31) Bromochloromethane	11.29	128	73235	11.13235 ppb		98
33) 1,1,1-TCA	11.82	97	278843	10.64511 ppb		96
34) Cyclohexane	11.98	56	263047	9.80385 ppb		98
35) 1,1-Dichloropropene	12.09	75	239949	10.61411 ppb		97
36) 2,2,4-Trimethylpentane	12.15	57	421013	9.85524 ppb		96
38) Carbon Tetrachloride	12.27	117	230304	10.37633 ppb		97
39) Tert Amyl Methyl Ether	12.33	73	278160	10.50787 ppb		96
40) 1,2-DCA	12.35	62	138683	11.05964 ppb		94
41) Benzene	12.47	78	718936	10.09796 ppb		98
42) TCE	13.51	95	201150	10.88749 ppb		98

Algorithm Check: $\frac{(166675)(25)}{(584886)(0.805423)} = 8.84535$ ✓ ARS 2/6/12

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0203C05W.D Vial: 1
Acq On : 3 Feb 12 12:35 Operator: RS, ARS
Sample : 120203A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 13:03 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.18	43	453124	146.43260	ppb		99
44)	1,2-Dichloropropane	13.74	63	163022	10.26283	ppb		97
45)	Bromodichloromethane	14.09	83	178722	10.74170	ppb		97
46)	Methyl Cyclohexane	13.79	83	235810	9.87209	ppb		93
47)	Dibromomethane	14.15	93	70809	11.39737	ppb		93
48)	2-Chloroethyl vinyl ether	14.54	63	43958	10.40857	ppb		92
49)	1-Bromo-2-chloroethane	14.85	63	130089	11.19534	ppb		98
50)	Cis-1,3-Dichloropropene	14.98	75	219891	11.01590	ppb		97
51)	Toluene	15.61	91	739435	10.24371	ppb		97
52)	Trans-1,3-Dichloropropene	15.77	75	146736	10.76993	ppb		100
53)	1,1,2-TCA	16.05	83	73423	11.45775	ppb		99
56)	1,2-EDB	17.30	107	86313	10.85288	ppb		88
57)	Tetrachloroethene	16.76	164	177189	10.18564	ppb		87
58)	1-Chlorohexane	17.67	91	252208	9.72209	ppb		97
59)	1,1,1,2-Tetrachloroethane	18.12	131	152978	10.98728	ppb		99
60)	m&p-Xylene	18.33	106	643559	19.51640	ppb		99
61)	o-Xylene	19.07	106	322713	10.55205	ppb		94
62)	Styrene	19.09	104	485090	10.79909	ppb		99
64)	2-Hexanone	16.07	43	31302	11.41842	ppb		91
65)	1,3-Dichloropropane	16.46	76	155726	10.91543	ppb		97
66)	Dibromochloromethane	16.94	129	111626	11.00559	ppb		93
67)	Chlorobenzene	18.08	112	470780	10.45744	ppb		99
68)	Ethylbenzene	18.18	91	835740	9.99978	ppb		99
69)	Bromoform	19.60	173	56683	10.47559	ppb		91
71)	MIBK (methyl isobutyl keto	14.65	43	51481	11.09914	ppb		99
72)	Isopropylbenzene	19.70	105	803510	9.88464	ppb		100
73)	1,1,2,2-Tetrachloroethane	19.86	83	77474	11.11801	ppb		98
74)	1,2,3-Trichloropropane	20.13	110	7300	10.47114	ppb		98
75)	t-1,4-Dichloro-2-Butene	20.19	53	18130	10.16767	ppb		85
76)	Bromobenzene	20.44	156	192092	9.74565	ppb		98
77)	n-Propylbenzene	20.41	91	976643	9.84828	ppb		99
78)	4-Ethyltoluene	20.60	105	563026	9.69806	ppb		98
79)	2-Chlorotoluene	20.70	91	631300	9.90868	ppb		97
80)	1,3,5-Trimethylbenzene	20.68	105	657539	10.11374	ppb		97
81)	4-Chlorotoluene	20.77	91	529337	9.52511	ppb		99
82)	Tert-Butylbenzene	21.32	119	682446	9.67532	ppb		97
83)	1,2,4-Trimethylbenzene	21.37	105	660667	10.00050	ppb		100
84)	Sec-Butylbenzene	21.72	105	875971	9.71880	ppb		99
85)	p-Isopropyltoluene	21.95	119	719797	9.91754	ppb		98
86)	Benzyl Chloride	22.39	91	141324	11.37500	ppb		94
87)	1,3-DCB	22.09	146	379509	10.07700	ppb		98
88)	1,4-DCB	22.26	146	357259	10.20490	ppb		100
89)	Hexachloroethane	23.56	117	146370	9.77650	ppb		97
90)	n-Butylbenzene	22.66	91	642430	10.03251	ppb		94
91)	1,2-DCB	22.89	146	315391	10.39472	ppb		95
92)	1,2-Dibromo-3-chloropropan	24.11	155	12760	11.02230	ppb	#	70
93)	1,2,4-Trichlorobenzene	25.55	180	100352	11.55035	ppb		93
94)	Hexachlorobutadiene	25.80	223	101689	10.52029	ppb		86
95)	Naphthalene	25.90	128	292138	11.71861	ppb		99
96)	1,2,3-Trichlorobenzene	26.26	180	76568	11.41711	ppb		98

11.01590 + 10.76993 = 21.78583 ppb is the amount of total 1,3-dichloropropene

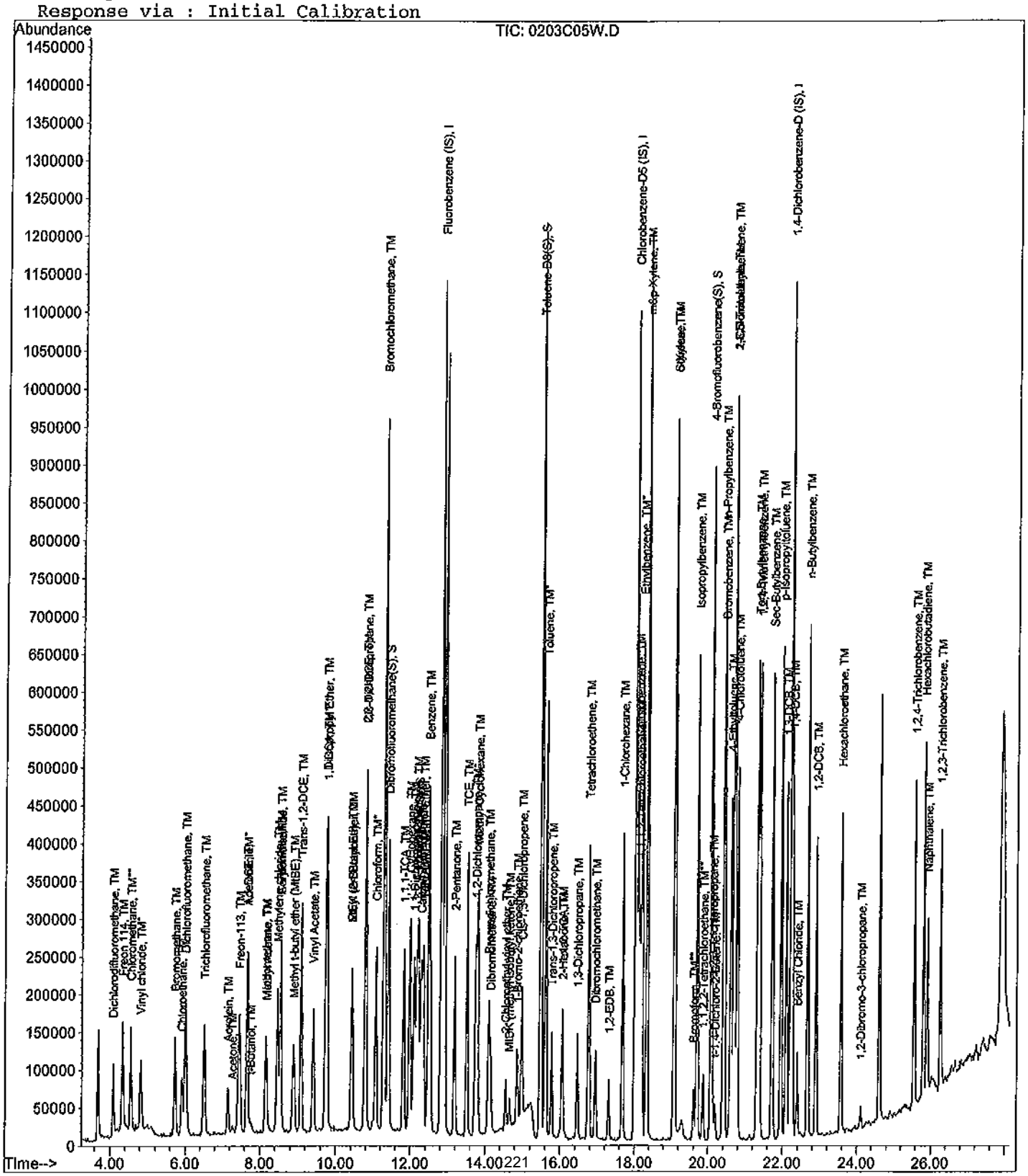
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0203C05W.D Vial: 1
Acq On : 3 Feb 12 12:35 Operator: RS, ARS
Sample : 120203A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 3 13:03 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66972
Date Analyzed: 02/15/12
Instrument: Chico
Initial Cal. Date: 02/02/12
Data File: 0215C03W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.8054	0.9353	16	TM		
3	TM	Freon 114	0.5678	0.6146	8.2	TM		
4	TM**	Chloromethane	0.3441	0.3309	3.8	TM**		
5	TM*	Vinyl chloride	0.2484	0.2719	9.5	TM*		
6	TM	Bromomethane	0.1968	0.2047	4.0	TM		
7	TML	Chloroethane	0.1738	0.1734	0.25	TML	11	
8	TM	Dichlorofluoromethane	1.549	1.681	8.6	TM		
9	TM	Trichlorofluoromethane	0.1991	0.1963	1.4	TM		
10		Acetonitrile	0.0211	0.0251	19			
11	TM	Acrolein	0.0323	0.0276	15	TM		
12	TML	Acetone	0.0531	0.0569	7.3	TML	16	
13	TM	Freon-113	0.6537	0.6939	6.2	TM		
14	TM*	1,1-DCE	0.7383	0.7142	3.3	TM*		
15	TM	t-Butanol	0.0020	0.0026	28	TM		*NT
16	TML	Methyl Acetate	0.2162	0.1744	19	TML	14	
17	TML	Iodomethane	1.117	1.252	12	TML	2.6	
18	TM	Acrylonitrile	0.0668	0.0675	1.1	TM		
19	TM	Methylene chloride	0.6389	0.8088	27	TM		*
20	TM	Carbon disulfide	0.7667	0.7873	2.7	TM		
21	TM	Methyl t-butyl ether (MtBE)	0.9418	0.8688	7.8	TM		
22	TM	Trans-1,2-DCE	0.8568	0.8627	0.69	TM		
23	TM	Diisopropyl Ether	2.006	2.044	1.8	TM		
24	TM**	1,1-DCA	1.311	1.326	1.2	TM**		
25	TML	Vinyl Acetate	0.1503	0.1552	3.2	TML	27	*NT
26	TM	Ethyl tert Butyl Ether	1.378	1.372	0.45	TM		
27	TM	MEK (2-Butanone)	0.0533	0.0525	1.6	TM		
28	TML	Cis-1,2-DCE	0.9225	0.8727	5.4	TML	0.76	
29	TM	2,2-Dichloropropane	1.077	1.140	5.8	TM		
30	TM*	Chloroform	0.7944	0.8206	3.3	TM*		
31	TM	Bromochloromethane	0.2812	0.2870	2.1	TM		
32	S	Dibromofluoromethane(S)	0.6750	0.6621	1.9	S		
33	TM	1,1,1-TCA	1.120	1.150	2.7	TM		
34	TM	Cyclohexane	1.147	1.184	3.3	TM		
35	TM	1,1-Dichloropropene	0.9663	0.9986	3.3	TM		
36	TM	2,2,4-Trimethylpentane	1.826	2.008	10.0	TM		
37	S	1,2-DCA-D4(S)	0.4764	0.4434	6.9	S		
38	TM	Carbon Tetrachloride	0.9487	0.9977	5.2	TM		
39	TM	Tert Amyl Methyl Ether	1.131	1.032	8.8	TM		
40	TM	1,2-DCA	0.5360	0.5463	1.9	TM		
		Average			6.9			

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc. SDG No: 66972
Case No: Date Analyzed: 02/15/12
Matrix: Water Instrument: Chico
Cal. Date: 02/02/12
Data File: 0215C03W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	Benzene	3.043	3.028	0.49	TM	
42	TM	TCE	0.7897	0.8330	5.5	TM	
43	TM	2-Pentanone	0.1323	0.1327	0.34	TM	
44	TM*	1,2-Dichloropropane	0.6790	0.6399	5.7	TM*	
45	TM	Bromodichloromethane	0.7112	0.7432	4.5	TM	
46	TM	Methyl Cyclohexane	1.021	1.041	1.9	TM	
47	TM	Dibromomethane	0.2656	0.2714	2.2	TM	
48	TM	2-Chloroethyl vinyl ether	0.1805	0.1597	12	TM	
49	TM	1-Bromo-2-chloroethane	0.4967	0.5048	1.6	TM	
50	TM	Cis-1,3-Dichloropropene	0.8532	0.8656	1.4	TM	
51	TM*	Toluene	3.085	3.151	2.1	TM*	
52	TM	Trans-1,3-Dichloropropene	0.5824	0.5886	1.1	TM	
53	TM	1,1,2-TCA	0.2739	0.2842	3.8	TM	
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	3.733	3.463	7.2	S	
56	TM	1,2-EDB	0.4762	0.4593	3.5	TM	
57	TM	Tetrachloroethene	1.042	1.071	2.8	TM	
58	TM	1-Chlorohexane	1.553	1.563	0.63	TM	
59	TM	1,1,1,2-Tetrachloroethane	0.8337	0.8346	0.12	TM	
60	TM	m&p-Xylene	1.974	1.909	3.3	TM	
61	TM	o-Xylene	1.831	1.826	0.28	TM	
62	TM	Styrene	2.690	2.717	1.0	TM	
63	S	4-Bromofluorobenzene(S)	1.247	1.203	3.5	S	
64	TM	2-Hexanone	0.1641	0.1661	1.2	TM	
65	TM	1,3-Dichloropropane	0.8542	0.8110	5.1	TM	
66	TM	Dibromochloromethane	0.6073	0.5921	2.5	TM	
67	TM**	Chlorobenzene	2.696	2.691	0.17	TM**	
68	TM*	Ethylbenzene	5.004	4.951	1.1	TM*	
69	TM**	Bromoform	0.3240	0.2813	13	TM**	
70	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
71	TML	MIBK (methyl isobutyl ketone)	0.6363	0.5113	20	TML	3.6
72	TM	Isopropylbenzene	9.331	9.312	0.21	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.7999	0.7940	0.73	TM**	
74	TML	1,2,3-Trichloropropane	0.0951	0.0844	11	TML	5.5
75	TM	t-1,4-Dichloro-2-Butene	0.2047	0.1876	8.3	TM	
76	TM	Bromobenzene	2.263	2.054	9.2	TM	
77	TM	n-Propylbenzene	11.4	11.3	0.62	TM	
78	TM	4-Ethyltoluene	6.664	6.620	0.67	TM	
79	TM	2-Chlorotoluene	7.313	6.916	5.4	TM	
80	TM	1,3,5-Trimethylbenzene	7.463	7.550	1.2	TM	
		Average			3.8		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66972
Date Analyzed: 02/15/12
Instrument: Chico
Cal. Date: 02/02/12
Data File: 0215C03W.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	4-Chlorotoluene	6.379	6.243	2.1	TM	
82	TM	Tert-Butylbenzene	8.097	7.978	1.5	TM	
83	TM	1,2,4-Trimethylbenzene	7.583	7.511	0.95	TM	
84	TM	Sec-Butylbenzene	10.3	10.4	0.51	TM	
85	TM	p-Isopropyltoluene	8.331	8.360	0.35	TM	
86	TM	Benzyl Chloride	1.426	1.353	5.1	TM	
87	TM	1,3-DCB	4.323	4.192	3.0	TM	
88	TM	1,4-DCB	4.019	3.814	5.1	TM	
89	TML	Hexachloroethane	1.527	1.708	12	TML	0.71
90	TM	n-Butylbenzene	7.350	7.594	3.3	TM	
91	TM	1,2-DCB	3.483	3.337	4.2	TM	
92	TM	1,2-Dibromo-3-chloropropane	0.1329	0.1191	10	TM	
93							
94							
95							
96							
97							
98							
99							
100							
101							
102							
103							
104							
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110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			4.0		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C03W.D Vial: 1
Acq On : 15 Feb 12 12:41 Operator: RS, ARS
Sample : 10ug/L Vol Std 02-15-12 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 15 13:01 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.81	96	594633	25.00000 ppb		0.00
54) Chlorobenzene-D5 (IS)	18.01	117	427520	25.00000 ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	220480	25.00000 ppb		0.00
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	353410	22.01118 ppb		0.00
Spiked Amount 22.441			Recovery = 98.082%			
37) 1,2-DCA-D4(S)	12.20	65	228946	20.20555 ppb		0.00
Spiked Amount 21.710			Recovery = 93.072%			
55) Toluene-D8(S)	15.47	98	1422667	22.28773 ppb		0.00
Spiked Amount 24.025			Recovery = 92.772%			
63) 4-Bromofluorobenzene(S)	20.08	95	532851	24.99579 ppb		0.00
Spiked Amount 25.909			Recovery = 96.475%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.09	85	222461	11.61237 ppb		97
3) Freon 114	4.34	85	146176	10.82359 ppb		100
4) Chloromethane	4.56	50	78709	9.61717 ppb		97
5) Vinyl chloride	4.83	62	64672	10.94713 ppb		96
6) Bromomethane	5.73	94	48688	10.40074 ppb		92
7) Chloroethane	5.91	64	41243	11.11897 ppb		96
8) Dichlorofluoromethane	6.01	67	399938	10.85632 ppb		94
9) Trichlorofluoromethane	6.51	103	46680	9.85595 ppb		95
10) Acetonitrile	7.65	41	74576	148.90230 ug/l		100
11) Acrolein	7.15	56	82108	106.76153 ppb		99
12) Acetone	7.27	43	13542	11.58551 ppb	#	81
13) Freon-113	7.45	101	165051	10.61537 ppb		95
14) 1,1-DCE	7.66	96	169879	9.67445 ppb		97
15) t-Butanol	7.74	59	7727	160.36099 ppb		100
16) Methyl Acetate	8.18	43	41478	8.61828 ppb		98
17) Iodomethane	8.15	142	297789	9.73608 ppb		96
18) Acrylonitrile	8.55	53	16061	10.11465 ppb		81
19) Methylene chloride	8.46	84	192369	12.65837 ppb		95
20) Carbon disulfide	8.55	76	187264	10.26896 ppb		94
21) Methyl t-butyl ether (MtBE	8.87	73	206648	9.22491 ppb		92
22) Trans-1,2-DCE	9.08	96	205196	10.06860 ppb		94
23) Diisopropyl Ether	9.73	45	486060	10.18473 ppb		98
24) 1,1-DCA	9.77	63	315478	10.11573 ppb		98
25) Vinyl Acetate	9.41	43	36904	12.70179 ppb		98
26) Ethyl tert Butyl Ether	10.42	59	326233	9.95487 ppb		97
27) MEK (2-Butanone)	10.41	43	12480	9.84073 ppb	#	85
28) Cis-1,2-DCE	10.79	96	207572	9.92390 ppb		98
29) 2,2-Dichloropropane	10.78	77	271077	10.58230 ppb		97
30) Chloroform	11.06	85	195188	10.32948 ppb		92
31) Bromochloromethane	11.29	128	68272	10.20782 ppb		86
33) 1,1,1-TCA	11.81	97	273624	10.27465 ppb		95
34) Cyclohexane	11.97	56	281687	10.32648 ppb		98
35) 1,1-Dichloropropene	12.09	75	237528	10.33479 ppb		99
36) 2,2,4-Trimethylpentane	12.15	57	477655	10.99786 ppb		97
38) Carbon Tetrachloride	12.27	117	237305	10.51651 ppb		98
39) Tert Amyl Methyl Ether	12.33	73	245404	9.11851 ppb		97
40) 1,2-DCA	12.35	62	129948	10.19318 ppb		99
41) Benzene	12.47	78	720289	9.95113 ppb		99
42) TCE	13.51	95	198121	10.54776 ppb		95

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C03W.D Vial: 1
Acq On : 15 Feb 12 12:41 Operator: RS, ARS
Sample : 10ug/L Vol Std 02-15-12 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 15 13:01 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.18	43	394587	125.42546	ppb		98
44)	1,2-Dichloropropane	13.73	63	152209	9.42505	ppb		99
45)	Bromodichloromethane	14.08	83	176784	10.45105	ppb		94
46)	Methyl Cyclohexane	13.79	83	247571	10.19457	ppb		98
47)	Dibromomethane	14.14	93	64558	10.22088	ppb		82
48)	2-Chloroethyl vinyl ether	14.54	63	37993	8.84869	ppb		94
49)	1-Bromo-2-chloroethane	14.85	63	120076	10.16425	ppb		90
50)	Cis-1,3-Dichloropropene	14.97	75	205876	10.14473	ppb		99
51)	Toluene	15.61	91	749533	10.21340	ppb		96
52)	Trans-1,3-Dichloropropene	15.77	75	140009	10.10775	ppb		88
53)	1,1,2-TCA	16.05	83	67598	10.37584	ppb		86
56)	1,2-EDB	17.29	107	78550	9.64611	ppb		97
57)	Tetrachloroethene	16.76	164	183180	10.28412	ppb		94
58)	1-Chlorohexane	17.67	91	267299	10.06319	ppb		98
59)	1,1,1,2-Tetrachloroethane	18.12	131	142728	10.01170	ppb		100
60)	m&p-Xylene	18.33	106	653072	19.34238	ppb		100
61)	o-Xylene	19.06	106	312268	9.97207	ppb		100
62)	Styrene	19.09	104	464607	10.10155	ppb		98
64)	2-Hexanone	16.07	43	28404	10.11931	ppb		96
65)	1,3-Dichloropropane	16.47	76	138694	9.49456	ppb		98
66)	Dibromochloromethane	16.94	129	101247	9.74917	ppb		89
67)	Chlorobenzene	18.06	112	460178	9.98322	ppb		97
68)	Ethylbenzene	18.18	91	846637	9.89359	ppb		98
69)	Bromoform	19.60	173	48109	8.68340	ppb		85
71)	MIBK (methyl isobutyl keto	14.65	43	45093	9.63561	ppb		96
72)	Isopropylbenzene	19.70	105	821204	9.97915	ppb		100
73)	1,1,2,2-Tetrachloroethane	19.86	83	70026	9.92666	ppb		95
74)	1,2,3-Trichloropropane	20.11	110	7444	10.54720	ppb		90
75)	t-1,4-Dichloro-2-Butene	20.18	53	16549	9.16787	ppb	#	81
76)	Bromobenzene	20.43	156	181113	9.07661	ppb		97
77)	n-Propylbenzene	20.40	91	997717	9.93813	ppb		100
78)	4-Ethyltoluene	20.60	105	583798	9.93326	ppb		96
79)	2-Chlorotoluene	20.70	91	609955	9.45694	ppb		96
80)	1,3,5-Trimethylbenzene	20.68	105	665887	10.11727	ppb		100
81)	4-Chlorotoluene	20.78	91	550613	9.78716	ppb		98
82)	Tert-Butylbenzene	21.31	119	703609	9.85374	ppb		97
83)	1,2,4-Trimethylbenzene	21.37	105	662447	9.90519	ppb		99
84)	Sec-Butylbenzene	21.71	105	917054	10.05057	ppb		98
85)	p-Isopropyltoluene	21.95	119	737279	10.03456	ppb		99
86)	Benzyl Chloride	22.39	91	119311	9.48613	ppb	#	96
87)	1,3-DCB	22.09	146	369694	9.69671	ppb		97
88)	1,4-DCB	22.25	146	336371	9.49111	ppb		96
89)	Hexachloroethane	23.56	117	150648	9.92906	ppb		94
90)	n-Butylbenzene	22.66	91	669750	10.33164	ppb		95
91)	1,2-DCB	22.89	146	294295	9.58119	ppb		95
92)	1,2-Dibromo-3-chloropropan	24.10	155	10505	8.96376	ppb		88

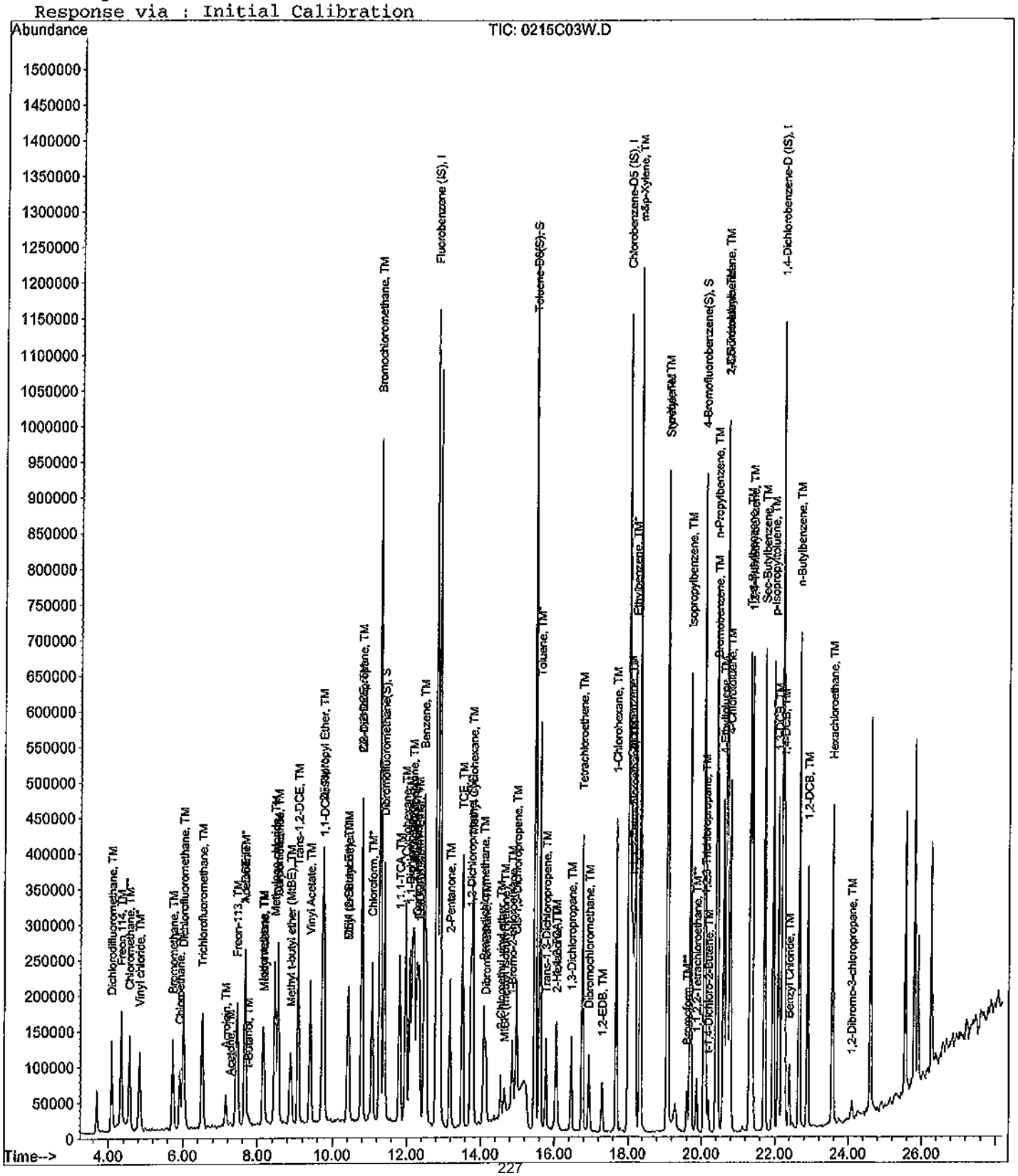
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C03W.D Vial: 1
Acq On : 15 Feb 12 12:41 Operator: RS, ARS
Sample : 10ug/L Vol Std 02-15-12 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 15 13:01 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Feb 16 10:23:35 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66972
Date Analyzed: 02/16/12
Instrument: Chico
Initial Cal. Date: 02/02/12
Data File: 0216C01W.D

		Compound	MEAN	CCRF	%D	%Drift		
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.8054	0.8991	12	TM		
3	TM	Freon 114	0.5678	0.6741	19	TM		
4	TM**	Chloromethane	0.3441	0.3652	6.1	TM**		
5	TM*	Vinyl chloride	0.2484	0.2535	2.0	TM*		
6	TM	Bromomethane	0.1968	0.1915	2.7	TM		
7	TML	Chloroethane	0.1738	0.1829	5.2	TML	18	
8	TM	Dichlorofluoromethane	1.549	1.730	12	TM		
9	TM	Trichlorofluoromethane	0.1991	0.2148	7.9	TM		
10		Acetonitrile	0.0211	0.0249	18			
11	TM	Acrolein	0.0323	0.0295	8.9	TM		
12	TML	Acetone	0.0531	0.0508	4.2	TML	1.0	
13	TM	Freon-113	0.6537	0.7445	14	TM		
14	TM*	1,1-DCE	0.7383	0.7532	2.0	TM*		
15	TM	t-Butanol	0.0020	0.0028	38	TM		*
16	TML	Methyl Acetate	0.2162	0.1591	26	TML	23	*NT
17	TML	Iodomethane	1.117	1.263	13	TML	1.7	
18	TM	Acrylonitrile	0.0668	0.0611	8.5	TM		
19	TM	Methylene chloride	0.6389	0.6552	2.6	TM		
20	TM	Carbon disulfide	0.7667	0.8122	5.9	TM		
21	TM	Methyl t-butyl ether (MtBE)	0.9418	0.7734	18	TM		
22	TM	Trans-1,2-DCE	0.8568	0.8609	0.48	TM		
23	TM	Diisopropyl Ether	2.006	1.887	6.0	TM		
24	TM**	1,1-DCA	1.311	1.363	4.0	TM**		
25	TML	Vinyl Acetate	0.1503	0.1566	4.2	TML	28	*
26	TM	Ethyl tert Butyl Ether	1.378	1.178	14	TM		
27	TM	MEK (2-Butanone)	0.0533	0.0576	8.0	TM		
28	TML	Cis-1,2-DCE	0.9225	0.8424	8.7	TML	4.9	
29	TM	2,2-Dichloropropane	1.077	1.225	14	TM		
30	TM*	Chloroform	0.7944	0.8004	0.75	TM*		
31	TM	Bromochloromethane	0.2812	0.2447	13	TM		
32	S	Dibromofluoromethane(S)	0.6750	0.6504	3.7	S		
33	TM	1,1,1-TCA	1.120	1.215	8.5	TM		
34	TM	Cyclohexane	1.147	1.216	6.0	TM		
35	TM	1,1-Dichloropropene	0.9663	1.023	5.8	TM		
36	TM	2,2,4-Trimethylpentane	1.826	2.277	25	TM		*NT
37	S	1,2-DCA-D4(S)	0.4764	0.4355	8.6	S		
38	TM	Carbon Tetrachloride	0.9487	1.065	12	TM		
39	TM	Tert Amyl Methyl Ether	1.131	0.9030	20	TM		
40	TM	1,2-DCA	0.5360	0.4964	7.4	TM		
		Average			10.2			

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66972
Date Analyzed: 02/16/12
Instrument: Chico
Cal. Date: 02/02/12
Data File: 0216C01W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	Benzene	3.043	3.041	0.07	TM	
42	TM	TCE	0.7897	0.8408	6.5	TM	
43	TM	2-Pentanone	0.1323	0.1157	13	TM	
44	TM*	1,2-Dichloropropane	0.6790	0.6178	9.0	TM*	
45	TM	Bromodichloromethane	0.7112	0.6745	5.2	TM	
46	TM	Methyl Cyclohexane	1.021	1.134	11	TM	
47	TM	Dibromomethane	0.2656	0.2478	6.7	TM	
48	TM	2-Chloroethyl vinyl ether	0.1805	0.1327	26	TM	*NT
49	TM	1-Bromo-2-chloroethane	0.4967	0.4550	8.4	TM	
50	TM	Cis-1,3-Dichloropropene	0.8532	0.7875	7.7	TM	
51	TM*	Toluene	3.085	3.172	2.8	TM*	
52	TM	Trans-1,3-Dichloropropene	0.5824	0.5351	8.1	TM	
53	TM	1,1,2-TCA	0.2739	0.2422	12	TM	
54	I	Chlorobenzene-D5 (IS)	ISTD			I	
55	S	Toluene-D8(S)	3.733	3.714	0.51	S	
56	TM	1,2-EDB	0.4762	0.4088	14	TM	
57	TM	Tetrachloroethene	1.042	1.140	9.5	TM	
58	TM	1-Chlorohexane	1.553	1.685	8.5	TM	
59	TM	1,1,1,2-Tetrachloroethane	0.8337	0.8260	0.92	TM	
60	TM	m&p-Xylene	1.974	1.950	1.2	TM	
61	TM	o-Xylene	1.831	1.946	6.3	TM	
62	TM	Styrene	2.690	2.713	0.87	TM	
63	S	4-Bromofluorobenzene(S)	1.247	1.210	3.0	S	
64	TM	2-Hexanone	0.1641	0.1433	13	TM	
65	TM	1,3-Dichloropropane	0.8542	0.7508	12	TM	
66	TM	Dibromochloromethane	0.6073	0.5401	11	TM	
67	TM**	Chlorobenzene	2.696	2.638	2.1	TM**	
68	TM*	Ethylbenzene	5.004	5.209	4.1	TM*	
69	TM**	Bromoform	0.3240	0.2874	11	TM**	
70	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
71	TML	MIBK (methyl isobutyl ketone)	0.6363	0.4930	23	TML	7.0
72	TM	Isopropylbenzene	9.331	10.4	12	TM	
73	TM**	1,1,2,2-Tetrachloroethane	0.7999	0.7180	10	TM**	
74	TML	1,2,3-Trichloropropane	0.0951	0.0729	23	TML	8.9
75	TM	t-1,4-Dichloro-2-Butene	0.2047	0.1778	13	TM	
76	TM	Bromobenzene	2.263	2.128	5.9	TM	
77	TM	n-Propylbenzene	11.4	13.0	14	TM	
78	TM	4-Ethyltoluene	6.664	7.544	13	TM	
79	TM	2-Chlorotoluene	7.313	7.678	5.0	TM	
80	TM	1,3,5-Trimethylbenzene	7.463	8.159	9.3	TM	
		Average			9.0		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66972
Date Analyzed: 02/16/12
Instrument: Chico
Cal. Date: 02/02/12
Data File: 0216C01W.D

		Compound	MEAN	CCRF	%D	%Drift		
81	TM	4-Chlorotoluene	6.379	6.522	2.2	TM		
82	TM	Tert-Butylbenzene	8.097	9.013	11	TM		
83	TM	1,2,4-Trimethylbenzene	7.583	8.182	7.9	TM		
84	TM	Sec-Butylbenzene	10.3	11.7	13	TM		
85	TM	p-Isopropyltoluene	8.331	9.497	14	TM		
86	TM	Benzyl Chloride	1.426	1.497	5.0	TM		
87	TM	1,3-DCB	4.323	4.219	2.4	TM		
88	TM	1,4-DCB	4.019	3.794	5.6	TM		
89	TML	Hexachloroethane	1.527	2.084	37	TML	20	
90	TM	n-Butylbenzene	7.350	8.644	18	TM		
91	TM	1,2-DCB	3.483	3.255	6.5	TM		
92	TM	1,2-Dibromo-3-chloropropane	0.1329	0.1025	23	TM		*
93	TM	1,2,4-Trichlorobenzene	0.9973	1.000	0.29	TM		
94	TML	Hexachlorobutadiene	1.372	1.372	0.02	TML	24	*
95	TM	Naphthalene	2.862	2.492	13	TM		
96	TM	1,2,3-Trichlorobenzene	0.7698	0.7355	4.5	TM		
97								
98								
99								
100								
101								
102								
103								
104								
105								
106								
107								
108								
109								
110								
111								
112								
113								
114								
115								
116								
117								
118								
119								
120								
		Average			10.2			

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0216C01W.D Vial: 1
Acq On : 16 Feb 12 8:52 Operator: RS, ARS
Sample : 10ug/L Vol Std 02-16-12 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 9:27 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.78	96	581727	25.00000 ppb		-0.03
54) Chlorobenzene-D5 (IS)	17.97	117	405248	25.00000 ppb		-0.03
70) 1,4-Dichlorobenzene-D (IS)	22.17	152	196800	25.00000 ppb		-0.03
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.37	111	339608	21.62082 ppb		-0.03
Spiked Amount 22.441			Recovery =	96.345%		
37) 1,2-DCA-D4(S)	12.17	65	220021	19.84868 ppb		-0.03
Spiked Amount 21.710			Recovery =	91.428%		
55) Toluene-D8(S)	15.44	98	1446299	23.90321 ppb		-0.03
Spiked Amount 24.025			Recovery =	99.494%		
63) 4-Bromofluorobenzene(S)	20.04	95	508090	25.14417 ppb		-0.03
Spiked Amount 25.909			Recovery =	97.046%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.07	85	209215	11.16322 ppb		95
3) Freon 114	4.31	85	156860	11.87237 ppb		100
4) Chloromethane	4.55	50	84971	10.61264 ppb		98
5) Vinyl chloride	4.82	62	58976	10.20444 ppb		94
6) Bromomethane	5.70	94	44560	9.73010 ppb		99
7) Chloroethane	5.89	64	42555	11.76799 ppb		94
8) Dichlorofluoromethane	5.98	67	402600	11.17104 ppb		97
9) Trichlorofluoromethane	6.49	103	49992	10.78942 ppb		99
10) Acetonitrile	7.61	41	72363	147.68918 ug/l		100
11) Acrolein	7.11	56	85719	113.92950 ppb		99
12) Acetone	7.24	43	11825	10.10433 ppb	#	56
13) Freon-113	7.41	101	173244	11.38950 ppb		99
14) 1,1-DCE	7.63	96	175255	10.20203 ppb		96
15) t-Butanol	7.73	59	8152	172.93456 ppb		97
16) Methyl Acetate	8.14	43	37011	7.70907 ppb		97
17) Iodomethane	8.13	142	293971	9.82888 ppb		96
18) Acrylonitrile	8.51	53	14217	9.15200 ppb		98
19) Methylene chloride	8.43	84	152470	10.25550 ppb		98
20) Carbon disulfide	8.51	76	188992	10.59364 ppb		95
21) Methyl t-butyl ether (MtBE	8.85	73	179960	8.21177 ppb		97
22) Trans-1,2-DCE	9.04	96	200334	10.04812 ppb		99
23) Diisopropyl Ether	9.70	45	439046	9.40371 ppb		95
24) 1,1-DCA	9.74	63	317189	10.39623 ppb		97
25) Vinyl Acetate	9.37	43	36448	12.82662 ppb		88
26) Ethyl tert Butyl Ether	10.39	59	274212	8.55311 ppb	#	88
27) MEK (2-Butanone)	10.39	43	13394	10.79575 ppb	#	87
28) Cis-1,2-DCE	10.77	96	196025	9.50894 ppb		93
29) 2,2-Dichloropropane	10.75	77	285126	11.37769 ppb		100
30) Chloroform	11.04	85	186249	10.07510 ppb		98
31) Bromochloromethane	11.26	128	56929	8.70069 ppb		92
33) 1,1,1-TCA	11.78	97	282752	10.85296 ppb		96
34) Cyclohexane	11.94	56	282879	10.60025 ppb		99
35) 1,1-Dichloropropene	12.05	75	237943	10.58254 ppb		98
36) 2,2,4-Trimethylpentane	12.13	57	529762	12.46822 ppb		99
38) Carbon Tetrachloride	12.25	117	247723	11.22175 ppb		97
39) Tert Amyl Methyl Ether	12.30	73	210124	7.98083 ppb		97
40) 1,2-DCA	12.31	62	115513	9.26191 ppb		99
41) Benzene	12.44	78	707651	9.99343 ppb		99
42) TCE	13.49	95	195646	10.64708 ppb		98

(#) = qualifier out of range (m) = manual integration
0216C01W.D CALLW.M Thu Feb 16 16:50:14 2012

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0216C01W.D Vial: 1
Acq On : 16 Feb 12 8:52 Operator: RS, ARS
Sample : 10ug/L Vol Std 02-16-12 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 9:27 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43)	2-Pentanone	13.15	43	336610	109.37038 ppb	97
44)	1,2-Dichloropropane	13.71	63	143749	9.09867 ppb	95
45)	Bromodichloromethane	14.06	83	156941	9.48382 ppb	99
46)	Methyl Cyclohexane	13.76	83	263906	11.10832 ppb	100
47)	Dibromomethane	14.11	93	57658	9.33099 ppb	87
48)	2-Chloroethyl vinyl ether	14.52	63	30878	7.35113 ppb	89
49)	1-Bromo-2-chloroethane	14.83	63	105866	9.16021 ppb	91
50)	Cis-1,3-Dichloropropene	14.95	75	183244	9.22984 ppb	98
51)	Toluene	15.57	91	738020	10.27963 ppb	99
52)	Trans-1,3-Dichloropropene	15.74	75	124507	9.18802 ppb	96
53)	1,1,2-TCA	16.02	83	56348	8.84092 ppb	93
56)	1,2-EDB	17.27	107	66271	8.58549 ppb	90
57)	Tetrachloroethene	16.74	164	184847	10.94805 ppb	99
58)	1-Chlorohexane	17.64	91	273215	10.85121 ppb	97
59)	1,1,1,2-Tetrachloroethane	18.10	131	133886	9.90762 ppb	91
60)	m&p-Xylene	18.29	106	632166	19.75220 ppb	95
61)	o-Xylene	19.04	106	315397	10.62553 ppb	99
62)	Styrene	19.06	104	439761	10.08683 ppb	97
64)	2-Hexanone	16.06	43	23226	8.72934 ppb	93
65)	1,3-Dichloropropane	16.44	76	121696	8.78879 ppb	93
66)	Dibromochloromethane	16.91	129	87542	8.89278 ppb	93
67)	Chlorobenzene	18.04	112	427622	9.78680 ppb	95
68)	Ethylbenzene	18.16	91	844429	10.41011 ppb	97
69)	Bromoform	19.57	173	46584	8.87025 ppb	96
71)	MIBK (methyl isobutyl keto	14.62	43	38809	9.29923 ppb	90
72)	Isopropylbenzene	19.67	105	822008	11.19084 ppb	99
73)	1,1,2,2-Tetrachloroethane	19.83	83	56523	8.97663 ppb	94
74)	1,2,3-Trichloropropane	20.08	110	5737	9.11262 ppb	93
75)	t-1,4-Dichloro-2-Butene	20.16	53	13999	8.68836 ppb	94
76)	Bromobenzene	20.41	156	167553	9.40742 ppb	92
77)	n-Propylbenzene	20.37	91	1022647	11.41214 ppb	98
78)	4-Ethyltoluene	20.58	105	593884	11.32074 ppb	99
79)	2-Chlorotoluene	20.67	91	604390	10.49818 ppb	98
80)	1,3,5-Trimethylbenzene	20.65	105	642292	10.93300 ppb	97
81)	4-Chlorotoluene	20.75	91	513410	10.22395 ppb	98
82)	Tert-Butylbenzene	21.29	119	709500	11.13182 ppb	99
83)	1,2,4-Trimethylbenzene	21.35	105	644097	10.78965 ppb	99
84)	Sec-Butylbenzene	21.69	105	919370	11.28835 ppb	100
85)	p-Isopropyltoluene	21.92	119	747638	11.39992 ppb	99
86)	Benzyl Chloride	22.37	91	117862	10.49848 ppb	97
87)	1,3-DCB	22.07	146	332148	9.76018 ppb	99
88)	1,4-DCB	22.23	146	298642	9.44047 ppb	97
89)	Hexachloroethane	23.54	117	164043	11.97427 ppb	99
90)	n-Butylbenzene	22.64	91	680485	11.76032 ppb	96
91)	1,2-DCB	22.86	146	256260	9.34677 ppb	94
92)	1,2-Dibromo-3-chloropropan	24.08	155	8071	7.71553 ppb	93
93)	1,2,4-Trichlorobenzene	25.53	180	78736	10.02904 ppb	91
94)	Hexachlorobutadiene	25.78	223	108018	12.39229 ppb	88
95)	Naphthalene	25.88	128	196200	8.70971 ppb	96
96)	1,2,3-Trichlorobenzene	26.23	180	57896	9.55376 ppb	99

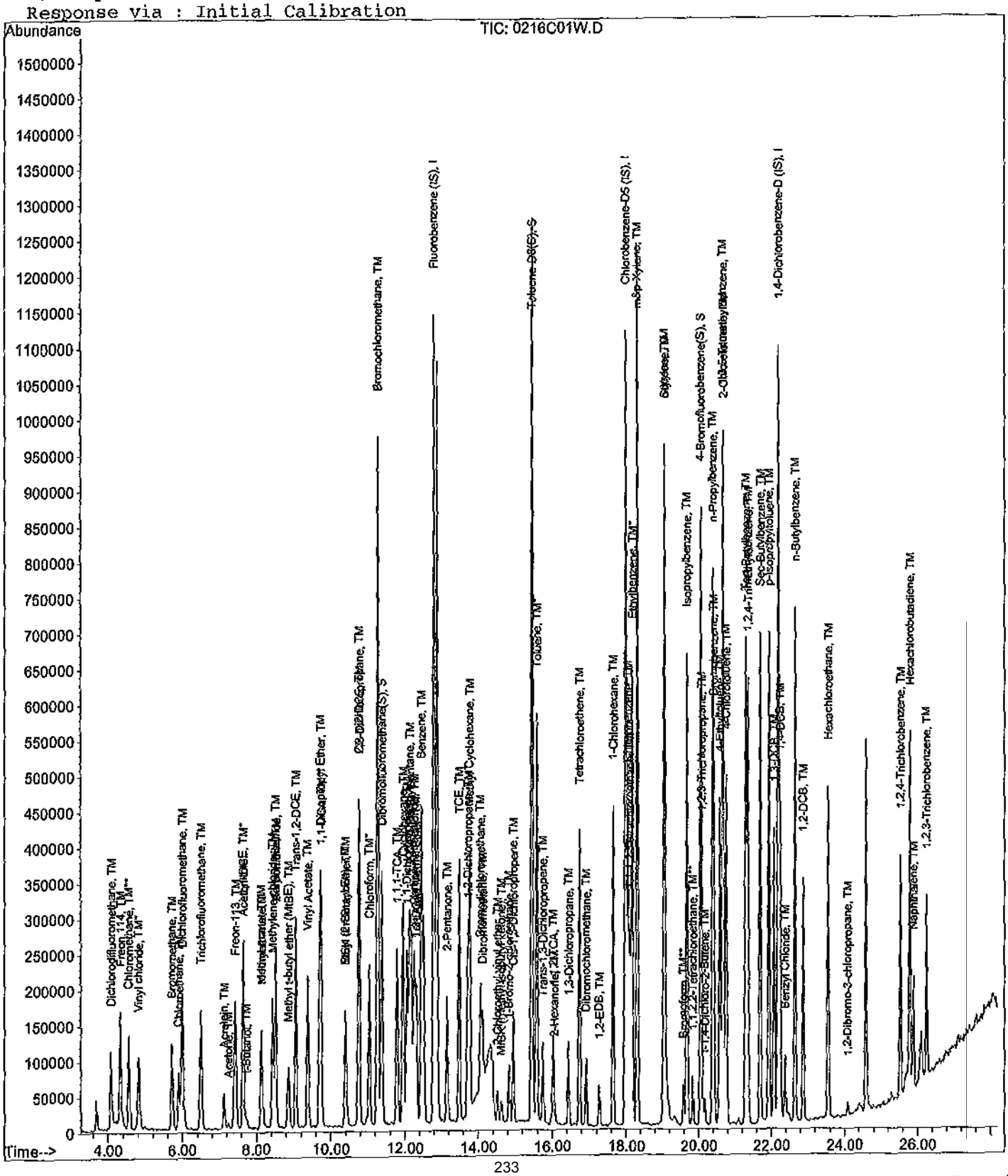
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0216C01W.D Vial: 1
Acq On : 16 Feb 12 8:52 Operator: RS, ARS
Sample : 10ug/L Vol Std 02-16-12 Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 9:27 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 66972
Case No: Initial Cal. Date: 01/25/12
Matrix: Water Instrument: Chico
Initials:

		Compound	20	50	100	300	600	800	1000				Avg	%RSD		
			0125C29W.D	0125C30W.D	0125C31W.D	0125C32W.D	0125C33W.D	0125C34W.D	0125C35W.D							
1	I	Fluorobenzene (IS)														r
2	TMHBL	Gasoline	23.6	10.6	5.907	3.541	2.892	2.841	2.494				7.4	104	TMHBL	0.997
3	I	Chlorobenzene-D5 (IS)														
4	I	1,4-Dichlorobenzene-D (IS)														
5																
6																
7																
8																
9																
10																
11																
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Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:41 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.80	TIC	998565	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	2063547	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1276666	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	68624186m	598.65494	ppb	100

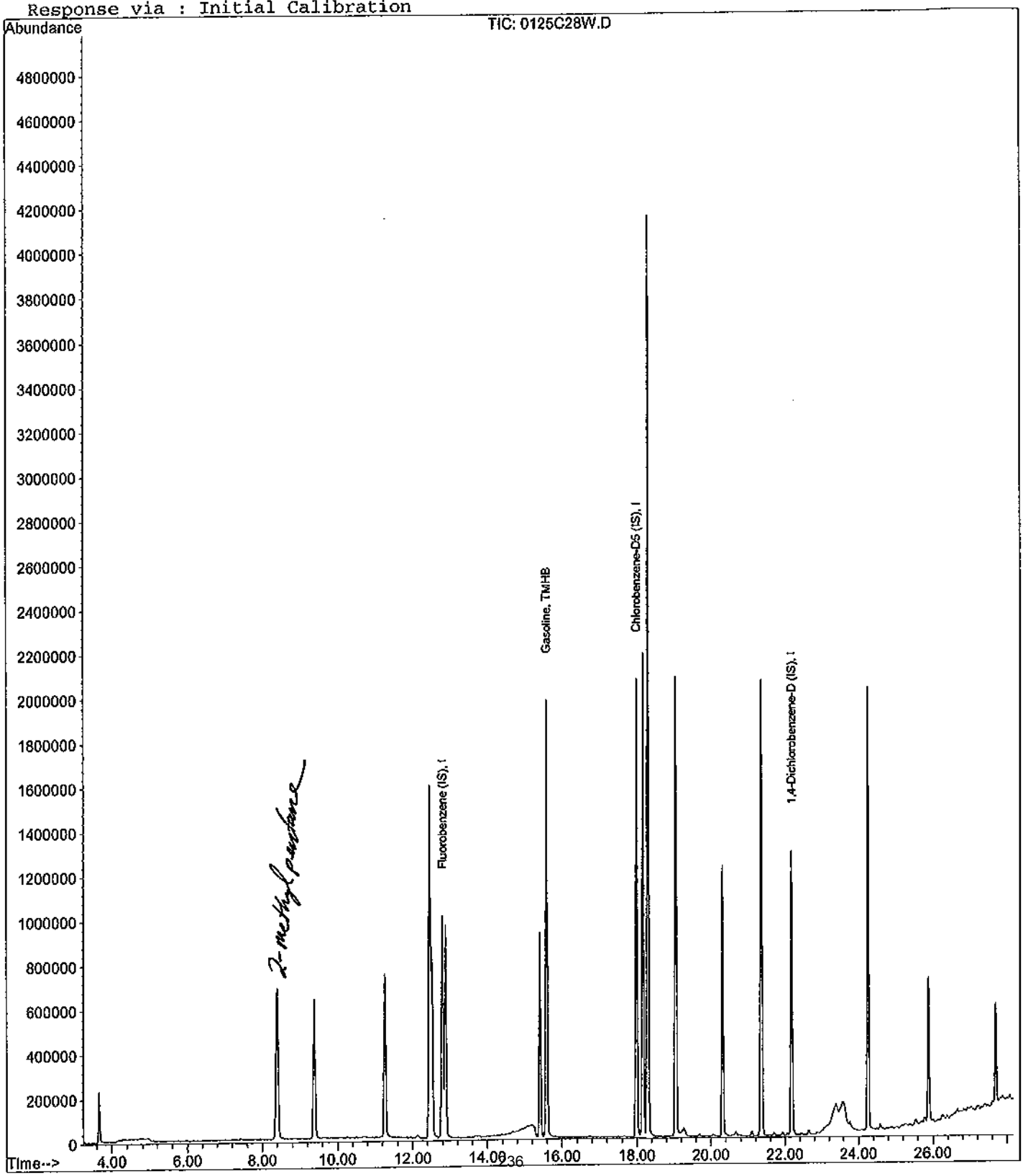
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C28W.D
Acq On : 26 Jan 12 18:55
Sample : VOC Mix Marker
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:41 2012 Quant Results File: CGAS.RES

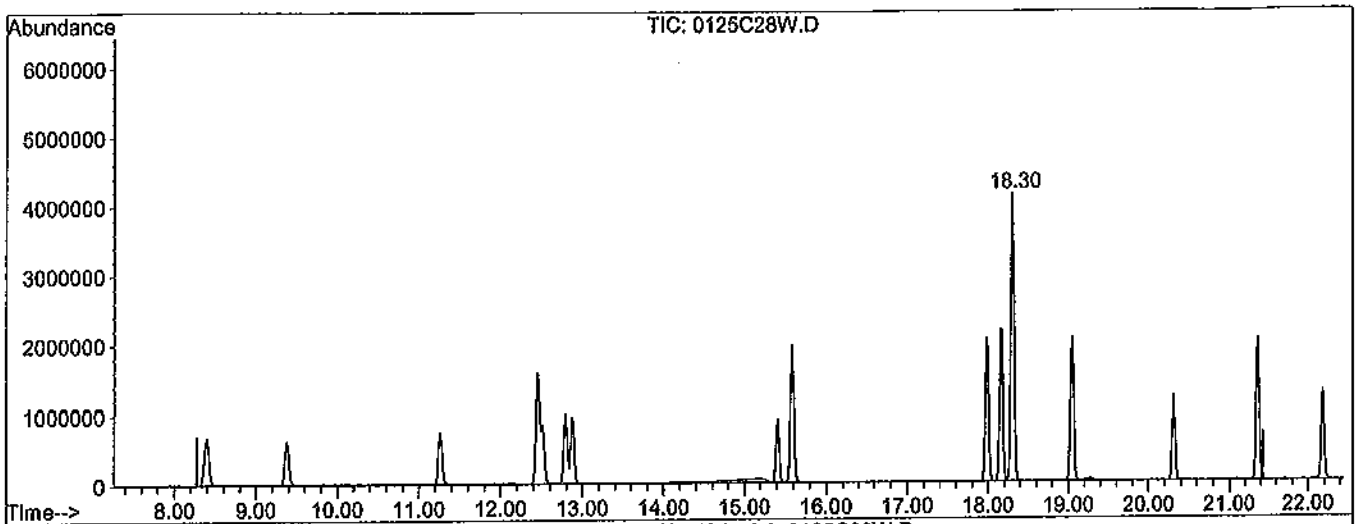
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:41 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0125C28W.D

(2) Gasoline (TMHB)

15.58min 598.6549ppb m

response 68624186

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.19#
0.00	0.00	0.54#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 11:40 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.80	96	514344	25.00000 ppb		0.03
54) Chlorobenzene-D5 (IS)	17.98	117	426880	25.00000 ppb		0.02
70) 1,4-Dichlorobenzene-D (IS)	22.18	152	243008	25.00000 ppb		0.02
System Monitoring Compounds						
32) Dibromofluoromethane(S)	11.40	111	814	0.05945 ppb		0.04
Spiked Amount 24.119			Recovery = 0.245%			
37) 1,2-DCA-D4(S)	12.18	65	952	0.09637 ppb		0.02
Spiked Amount 22.874			Recovery = 0.420%			
55) Toluene-D8(S)	15.46	98	5539	0.10268 ppb		0.03
Spiked Amount 24.755			Recovery = 0.416%			
63) 4-Bromofluorobenzene(S)	20.05	95	5181	0.27480 ppb		0.02
Spiked Amount 26.777			Recovery = 1.027%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.06	85	2596	0.82228 ppb		98
3) Freon 114	4.31	85	1957	0.24927 ppb		98
4) Chloromethane	4.53	50	497	-0.25189 ppb	#	1
5) Vinyl chloride	4.81	62	636	0.11072 ppb	#	55
6) Bromomethane	5.66	94	352	1.43494 ppb	#	48
7) Chloroethane	5.89	64	688	0.17146 ppb	#	88
9) Trichlorofluoromethane	6.48	103	598	0.15470 ppb	#	42
11) Acrolein	7.16	56	139	1.20103 ppb		81
12) Acetone	7.25	43	1756	0.17301 ppb	#	49
13) Freon-113	7.44	101	1265	0.10656 ppb		84
14) 1,1-DCE	7.63	96	2136	0.28441 ppb	#	17
15) t-Butanol	7.75	59	112	1.98451 ppb	#	80
17) Iodomethane	8.12	142	488	0.33050 ppb	#	43
18) Acrylonitrile	8.40	53	18247	12.53629 ppb	#	22
19) Methylene chloride	8.44	84	5961	-0.42807 ppb	#	1
20) Carbon disulfide	8.51	76	565	0.07522 ppb	#	75
22) Trans-1,2-DCE	9.06	96	3142	0.09631 ppb	#	9
25) Vinyl Acetate	9.38	43	108176	52.11193 ppb		98
27) MEK (2-Butanone)	10.41	43	403	0.27118 ppb	#	66
28) Cis-1,2-DCE	10.76	96	1544	0.11362 ppb	#	23
34) Cyclohexane	11.97	56	2103	0.11787 ppb		99
35) 1,1-Dichloropropene	12.09	75	2011	0.15580 ppb	#	45
36) 2,2,4-Trimethylpentane	12.13	57	18754	0.54048 ppb		99
38) Carbon Tetrachloride	12.23	117	80	0.91706 ppb	#	41
40) 1,2-DCA	12.45	62	18764	2.04942 ppb	#	75
41) Benzene	12.45	78	2517875	58.71375 ppb		98
42) TCE	13.49	95	1033	0.08724 ppb	#	57
43) 2-Pentanone	13.09	43	1444	0.49565 ppb	#	63
46) Methyl Cyclohexane	13.76	83	4236	0.25633 ppb		93
50) Cis-1,3-Dichloropropene	14.93	75	612	-0.23271 ppb		85
51) Toluene	15.58	91	2516540	49.99585 ppb		96
52) Trans-1,3-Dichloropropene	15.76	75	1112	0.10188 ppb	#	60
57) Tetrachloroethene	16.75	164	1780	0.15371 ppb	#	45
58) 1-Chlorohexane	17.66	91	4450	0.20898 ppb		89
60) m&p-Xylene	18.30	106	2213106	87.61936 ppb		97
61) o-Xylene	19.05	106	1078952	43.01267 ppb		93
62) Styrene	19.05	104	54491	1.45381 ppb	#	1
64) 2-Hexanone	16.02	43	394	0.17017 ppb	#	25
67) Chlorobenzene	18.06	112	2884	0.07867 ppb	#	48

(#) = qualifier out of range (m) = manual integration
0125C28W.D CALLW.M Fri Feb 03 12:58:27 2012

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 11:40 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
68)	Ethylbenzene	18.17	91	2939246	43.94023	ppb		100
71)	MIBK (methyl isobutyl keto	14.58	43	99	-0.18362	ppb	#	31
72)	Isopropylbenzene	19.69	105	9228	0.12704	ppb		92
75)	t-1,4-Dichloro-2-Butene	20.31	53	19055	11.41330	ppb	#	8
76)	Bromobenzene	20.43	156	3594	0.20876	ppb	#	47
77)	n-Propylbenzene	20.39	91	18116	0.20048	ppb		98
78)	4-Ethyltoluene	20.59	105	8271	0.15756	ppb		90
79)	2-Chlorotoluene	20.68	91	7547	0.13199	ppb	#	77
80)	1,3,5-Trimethylbenzene	20.66	105	19818	0.33532	ppb		92
81)	4-Chlorotoluene	20.77	91	9067	0.17883	ppb		97
82)	Tert-Butylbenzene	21.36	119	276648	4.08833	ppb	#	71
83)	1,2,4-Trimethylbenzene	21.36	105	2161299	36.78081	ppb		97
84)	Sec-Butylbenzene	21.70	105	18537	0.22205	ppb	#	76
85)	p-Isopropyltoluene	21.93	119	13390	0.19972	ppb	#	89
86)	Benzyl Chloride	22.37	91	1446	0.10670	ppb	#	90
87)	1,3-DCB	22.08	146	7950	0.23447	ppb		83
88)	1,4-DCB	22.25	146	8802	0.26702	ppb	#	79
89)	Hexachloroethane	23.52	117	2736	0.90342	ppb	#	25
90)	n-Butylbenzene	22.65	91	21345	0.34686	ppb	#	94
91)	1,2-DCB	22.88	146	6887	0.24229	ppb	#	79
92)	1,2-Dibromo-3-chloropropan	24.07	155	120	0.11615	ppb	#	46
93)	1,2,4-Trichlorobenzene	25.53	180	5653	0.69548	ppb		79
94)	Hexachlorobutadiene	25.78	223	5853	0.53769	ppb	#	69
95)	Naphthalene	25.89	128	857570	35.27522	ppb		99
96)	1,2,3-Trichlorobenzene	26.24	180	4574	0.69979	ppb		85

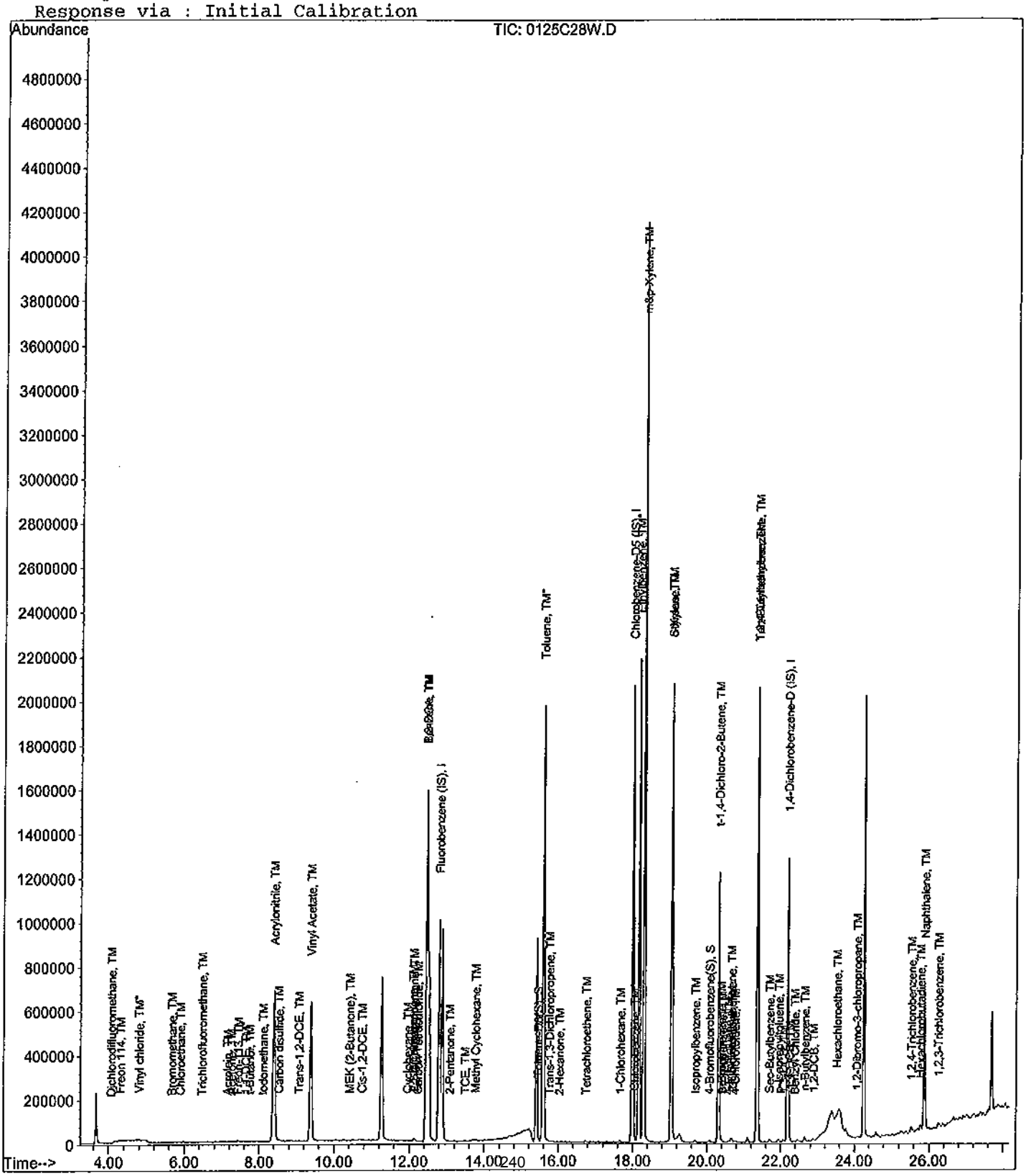
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C28W.D Vial: 1
Acq On : 26 Jan 12 18:55 Operator: RS, ARS
Sample : VOC Mix Marker Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 11:40 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120125\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Jan 27 12:42:43 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:34 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:01:13 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1053352	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1266647	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1287754	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	17.98	TIC	19858101m	31.82421	ppb	100

(#) = qualifier out of range (m) = manual integration
0125C29W.D CGAS.M Tue Feb 07 09:38:01 2012 Page 1

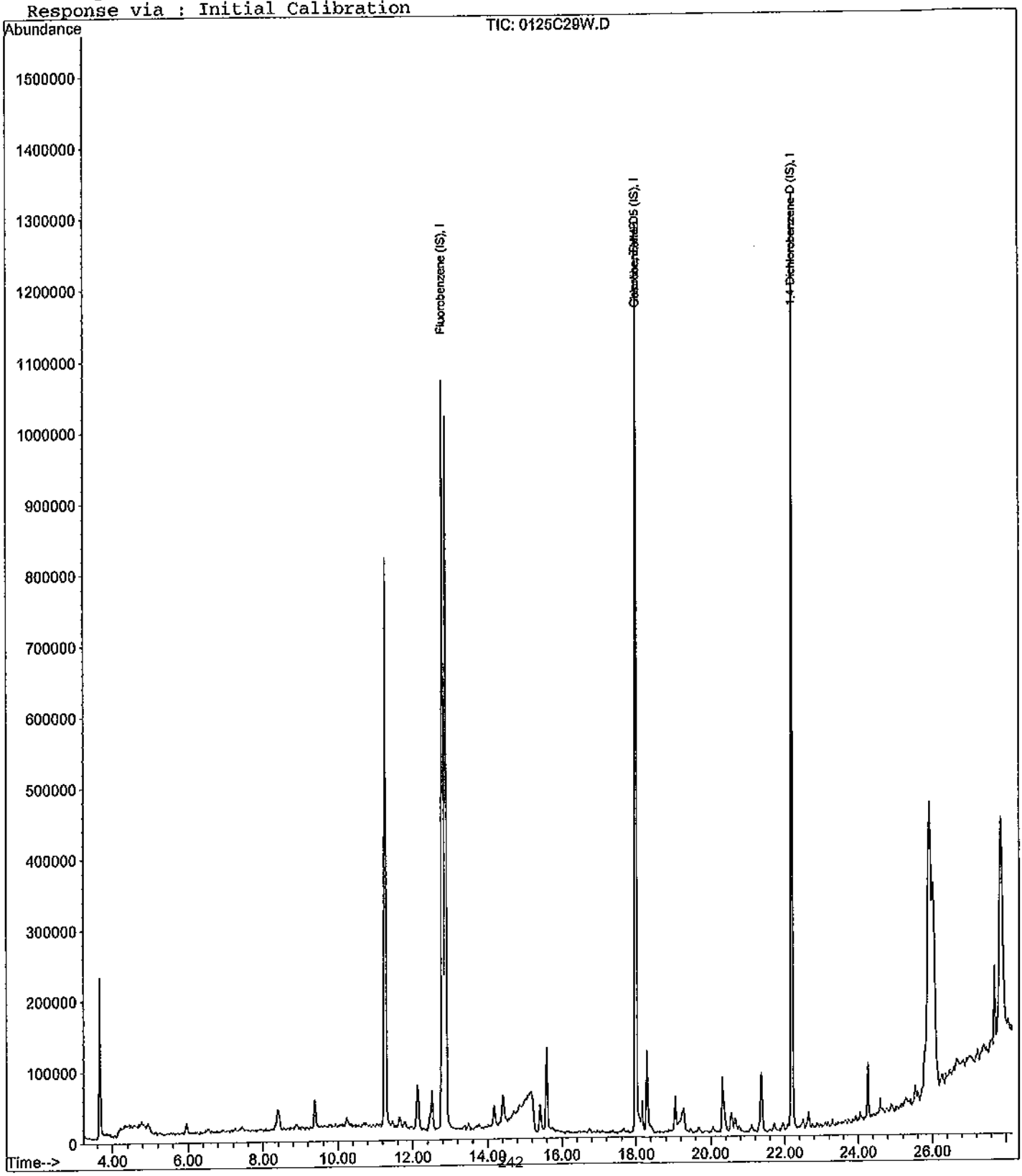
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D
Acq On : 26 Jan 12 19:32
Sample : Vol. Std. 01-26-12@20ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:34 2012 Quant Results File: CGAS.RES

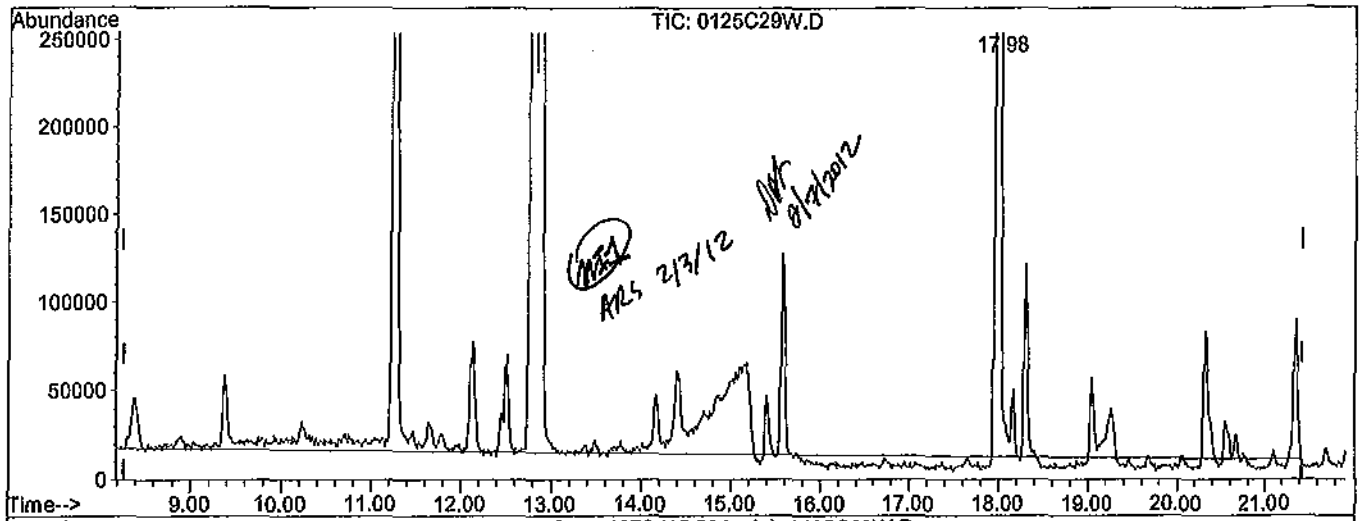
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

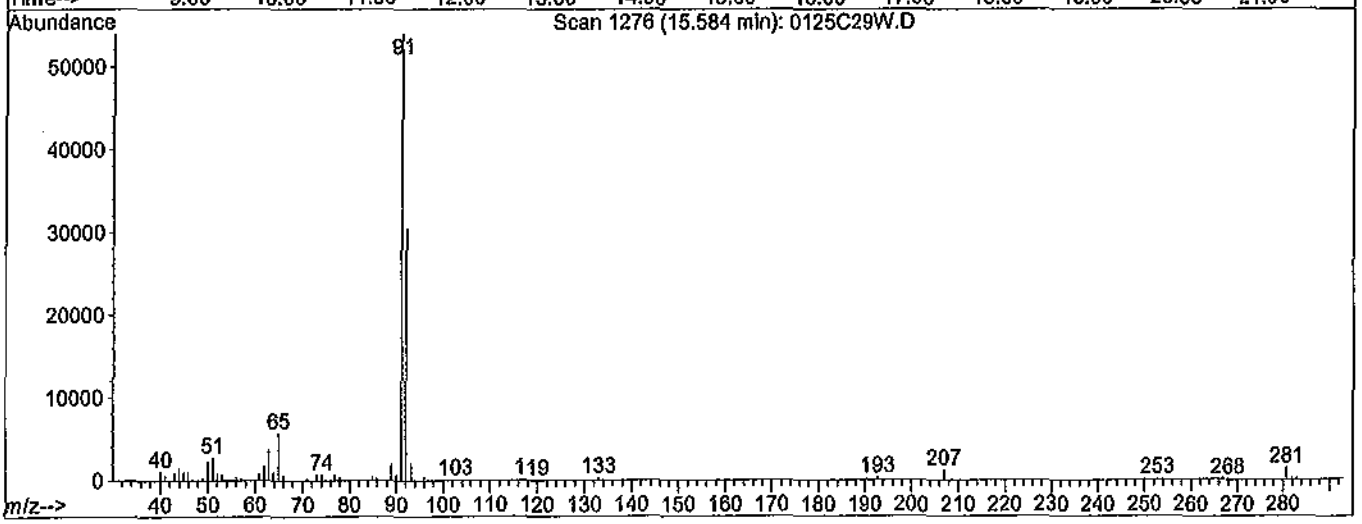


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C29W.D

(2) Gasoline (TMHB)

15.58min -8.2763ppb m

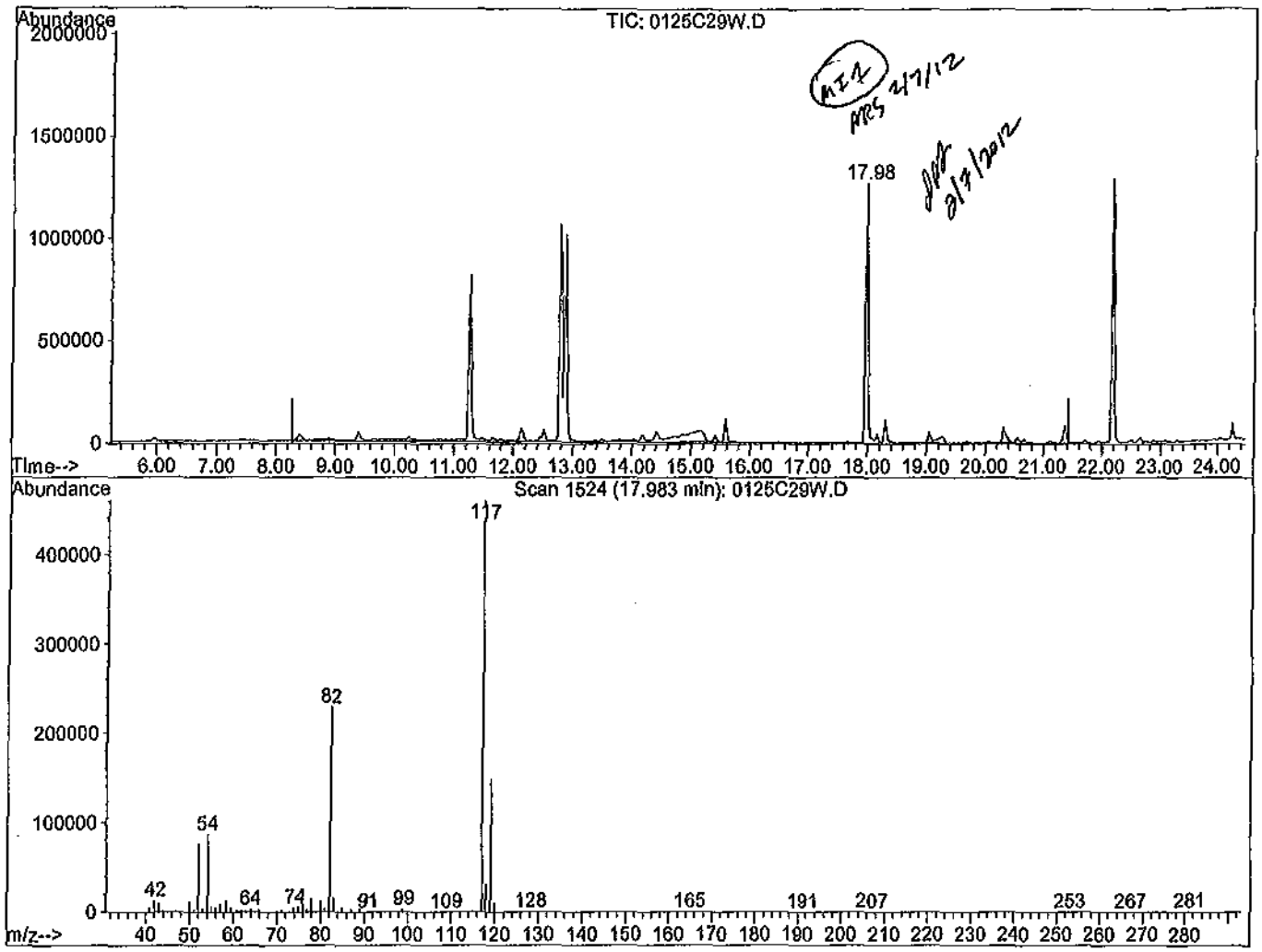
response 16152794

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.79#
0.00	0.00	2.40#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C29W.D Vial: 1
Acq On : 26 Jan 12 19:32 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@20ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:34 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0125C29W.D

(2) Gasoline (TMHB)

17.98min 31.8242ppb m

response 19858101

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.64#
0.00	0.00	1.95#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:35 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1088272	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.99	TIC	1269196	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.19	TIC	1282230	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	17.99	TIC	23136590m	59.27095	ppb	100

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

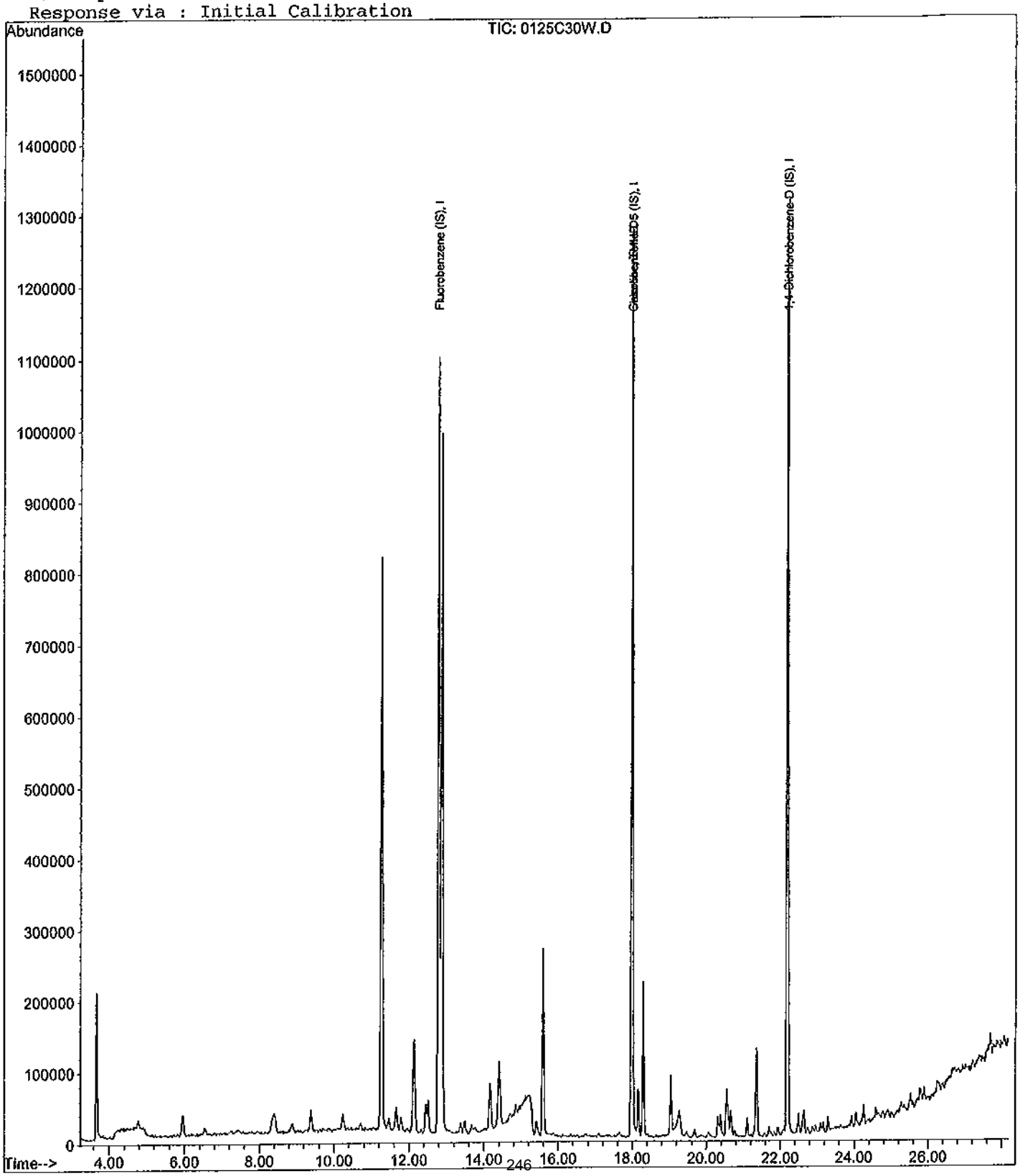
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D
Acq On : 26 Jan 12 20:09
Sample : Vol. Std. 01-26-12@50ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:35 2012 Quant Results File: CGAS.RES

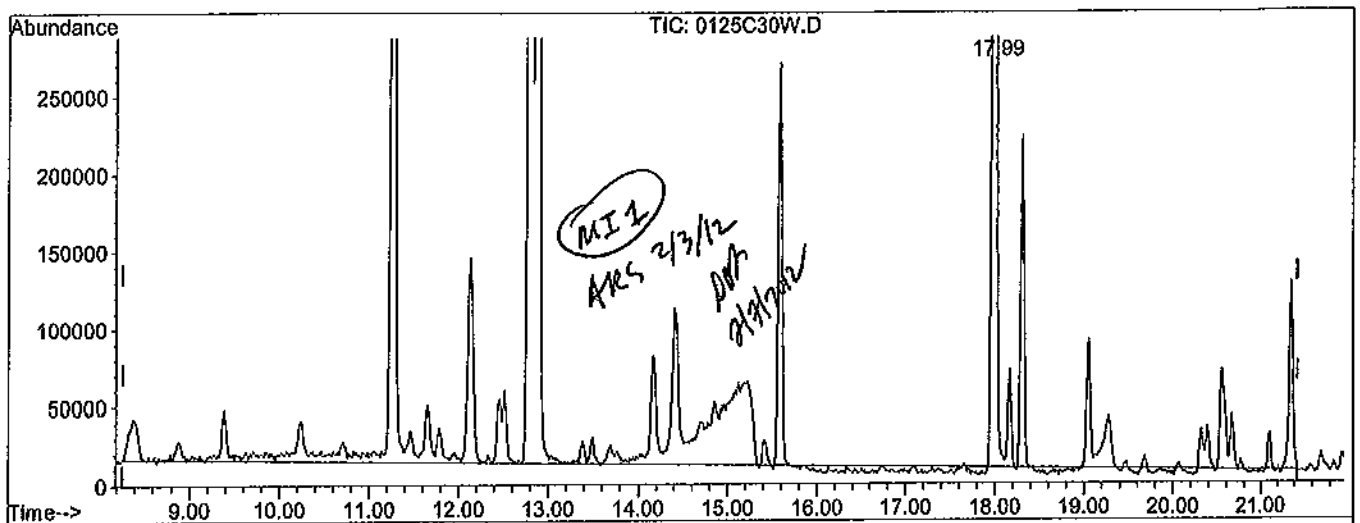
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

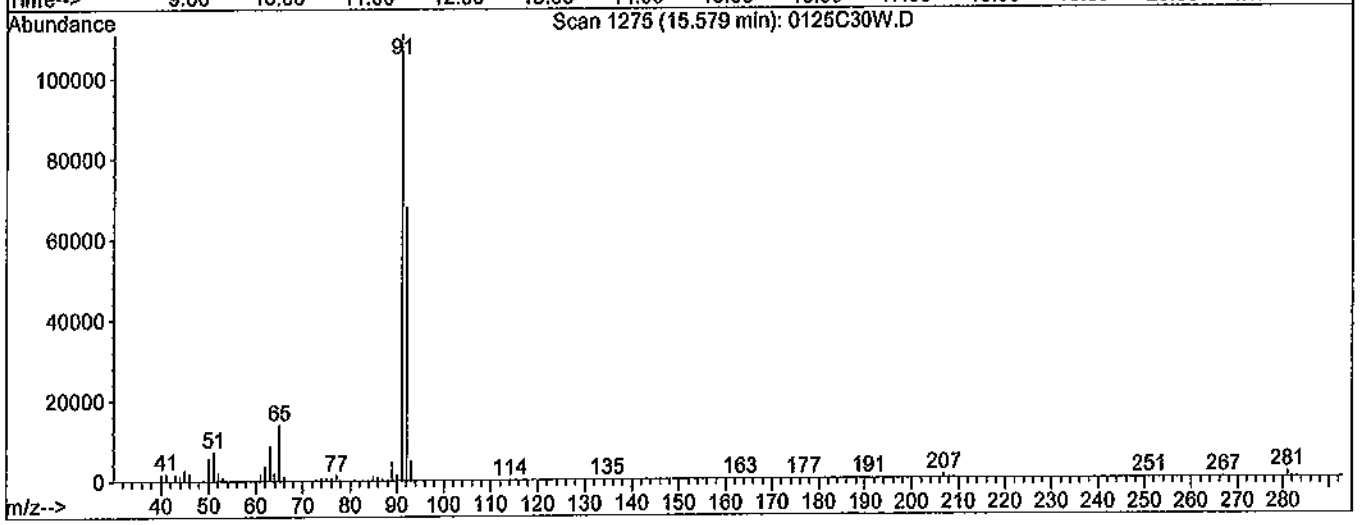


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C30W.D

(2) Gasoline (TMHB)

15.58min -0.0275ppb m

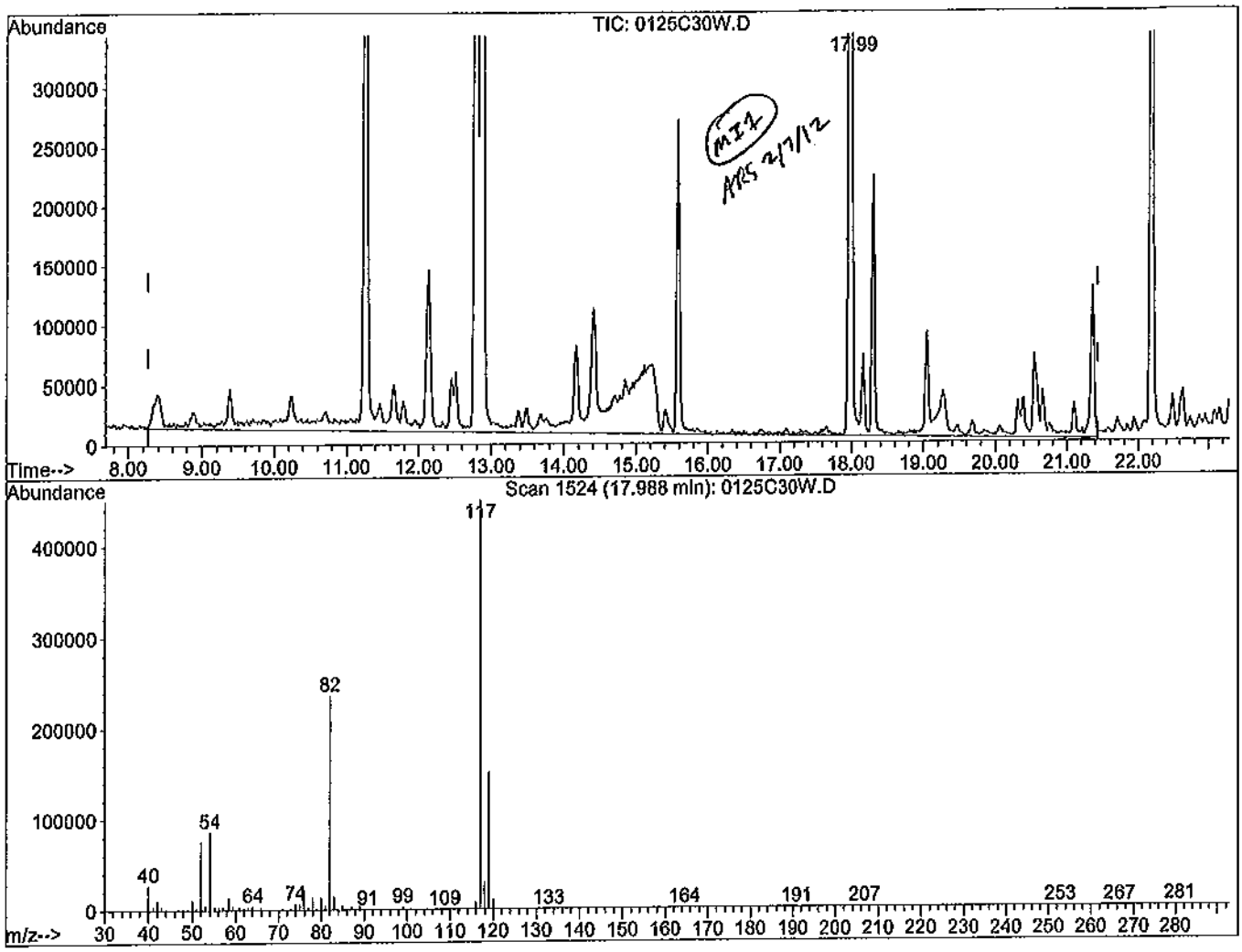
response 17475741

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.72#
0.00	0.00	2.18#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C30W.D Vial: 1
Acq On : 26 Jan 12 20:09 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@50ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:35 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



TIC: 0125C30W.D

(2) Gasoline (TMHB)

17.99min 59.2710ppb m

response 23136590

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.54#
0.00	0.00	1.65#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:13 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1080126	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1280154	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1288106	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	17.98	TIC	26257782m	94.04042	ppb	100

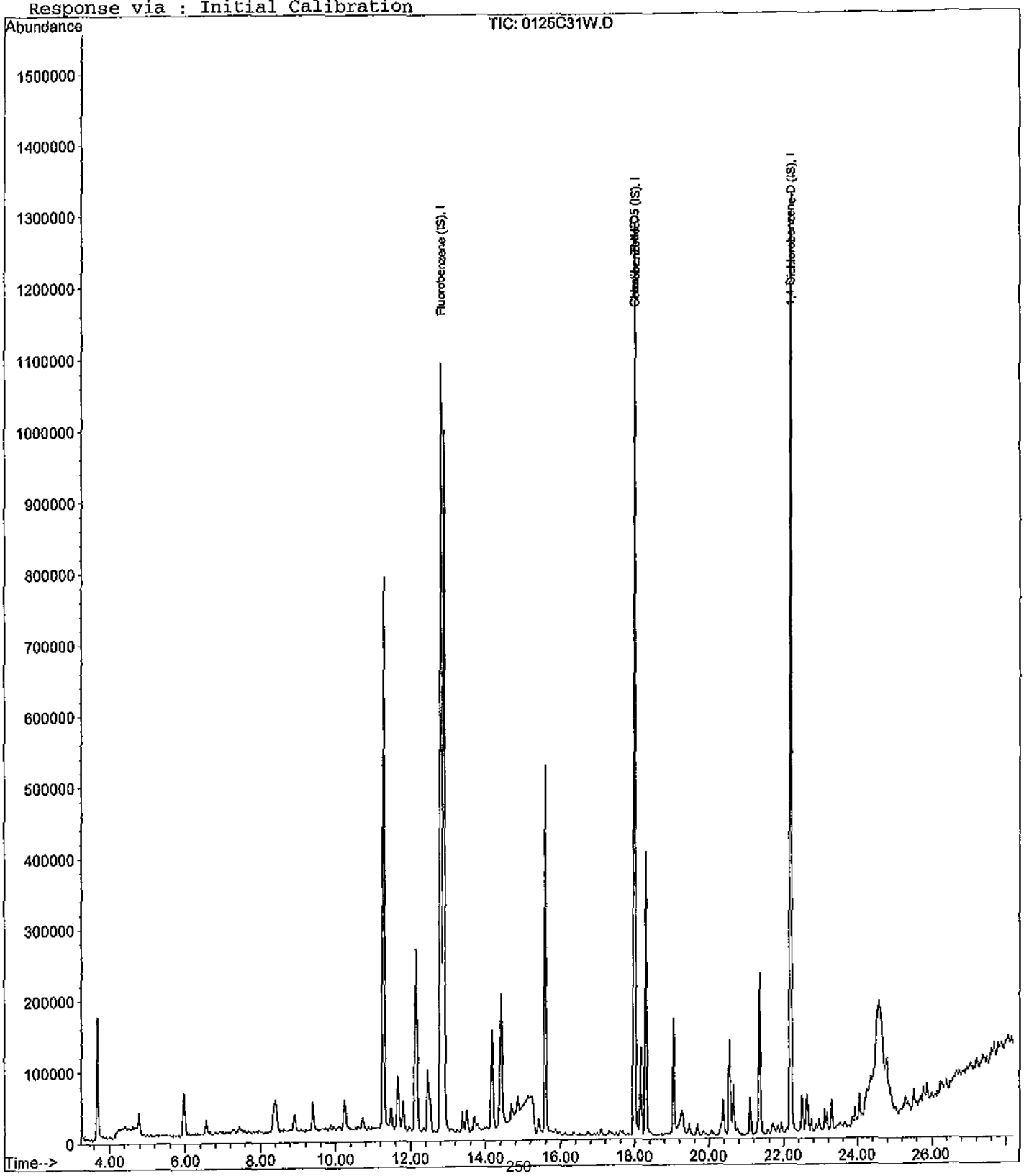
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D
Acq On : 26 Jan 12 20:46
Sample : Vol. Std. 01-26-12@100ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:13 2012 Quant Results File: CGAS.RES

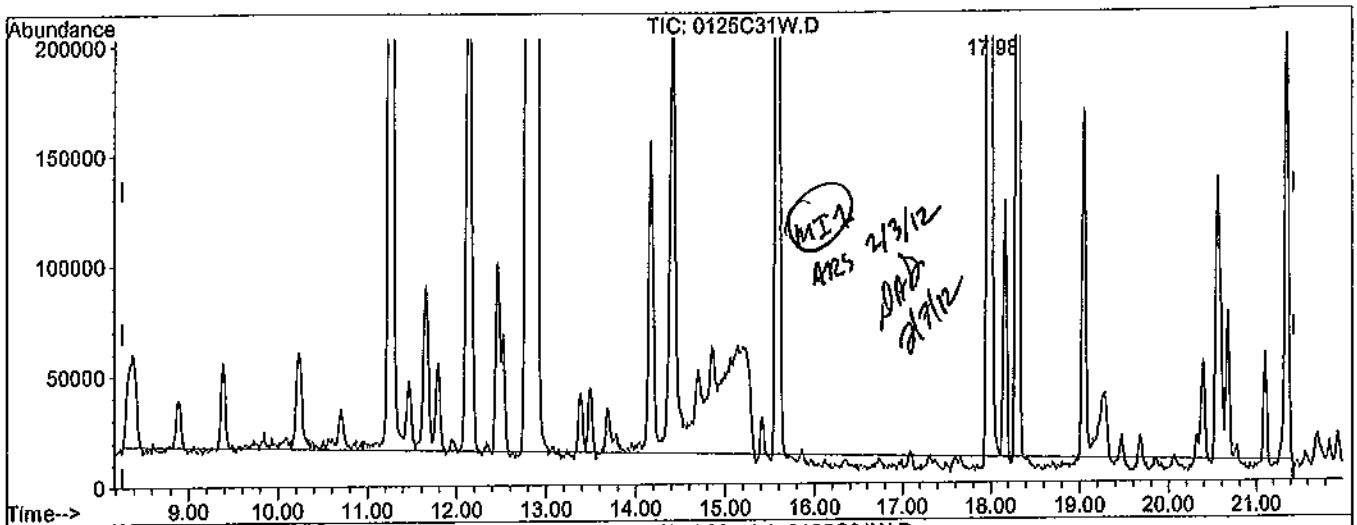
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

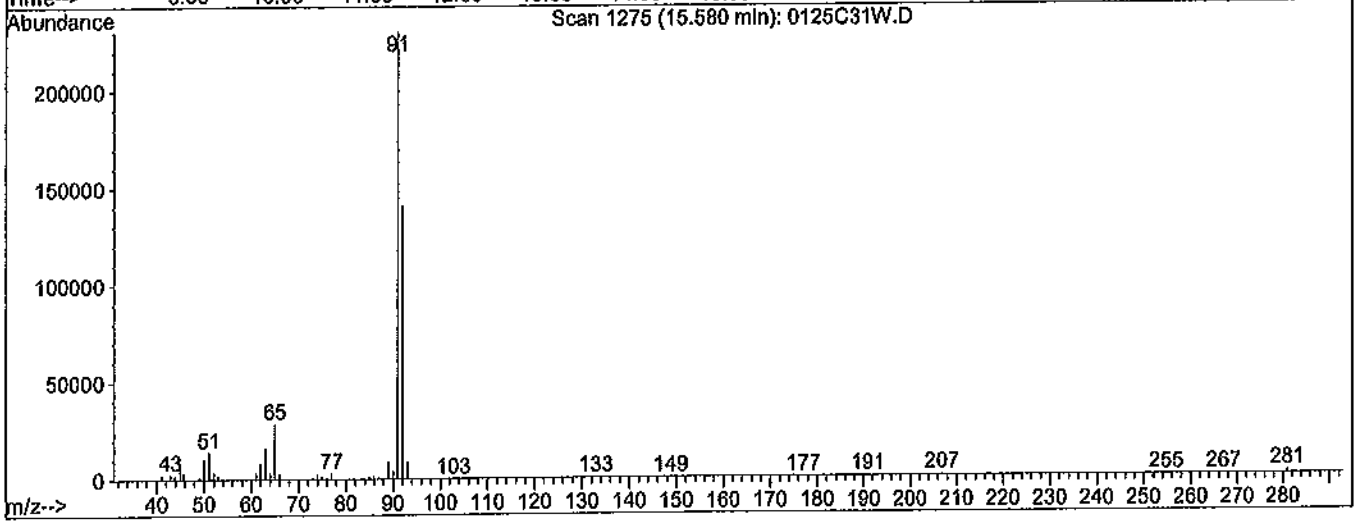


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C31W.D

(2) Gasoline (TMHB)

15.58min 27.4179ppb m

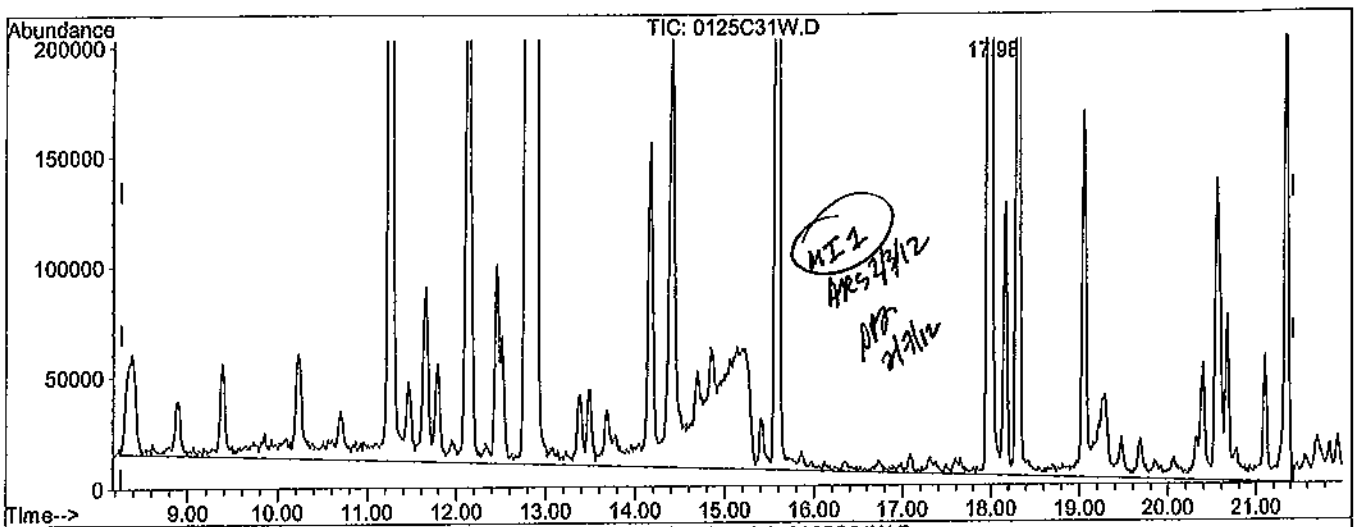
response 19945363

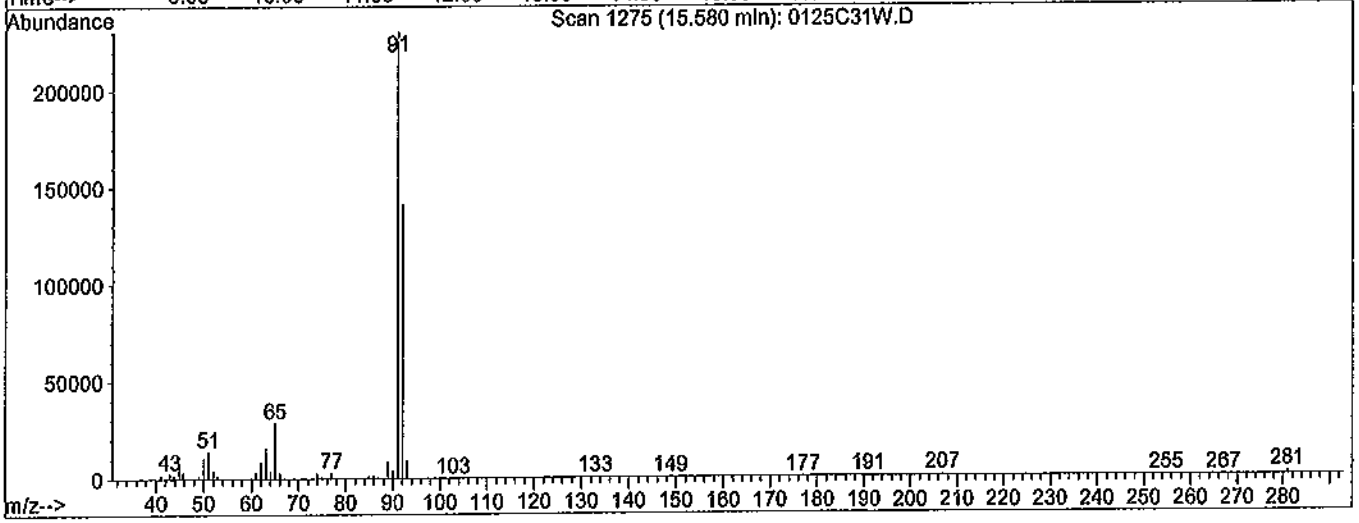
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.64#
0.00	0.00	1.85#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C31W.D Vial: 1
Acq On : 26 Jan 12 20:46 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@100ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:13 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C31W.D

(2) Gasoline (TMHB)

17.98min 94.0404ppb m

response 26257782

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.48#
0.00	0.00	1.40#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:09 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1085223	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1323772	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1382634	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	46451061m	304.86153	ppb	100

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

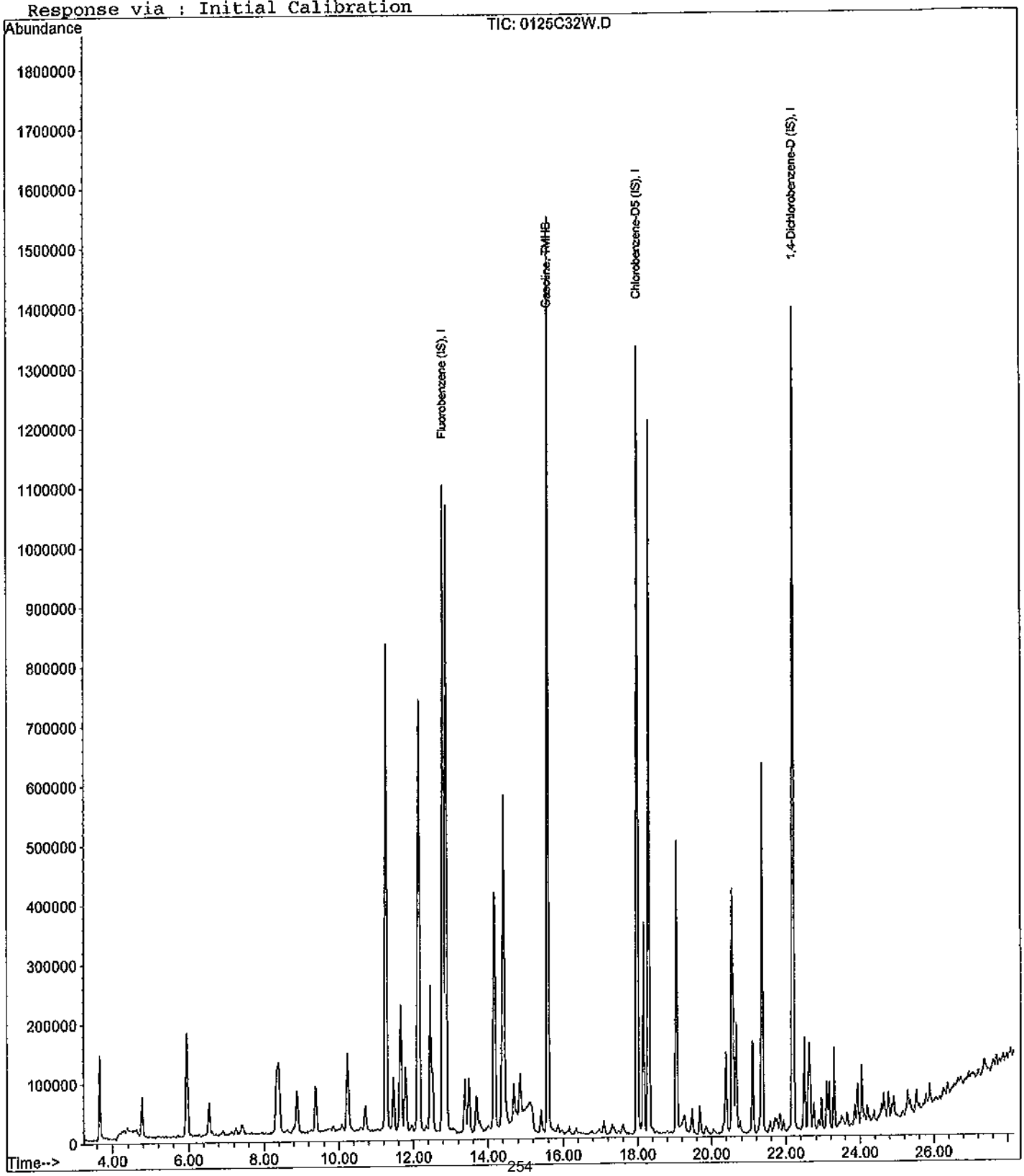
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D
Acq On : 26 Jan 12 21:24
Sample : Vol. Std. 01-26-12@300ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:09 2012 Quant Results File: CGAS.RES

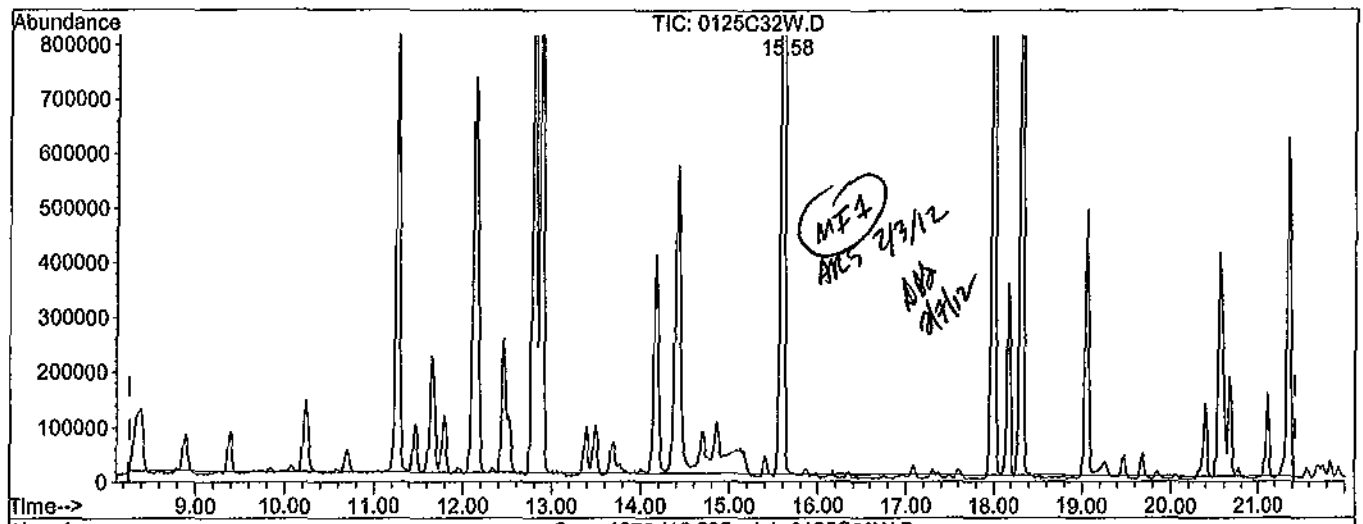
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

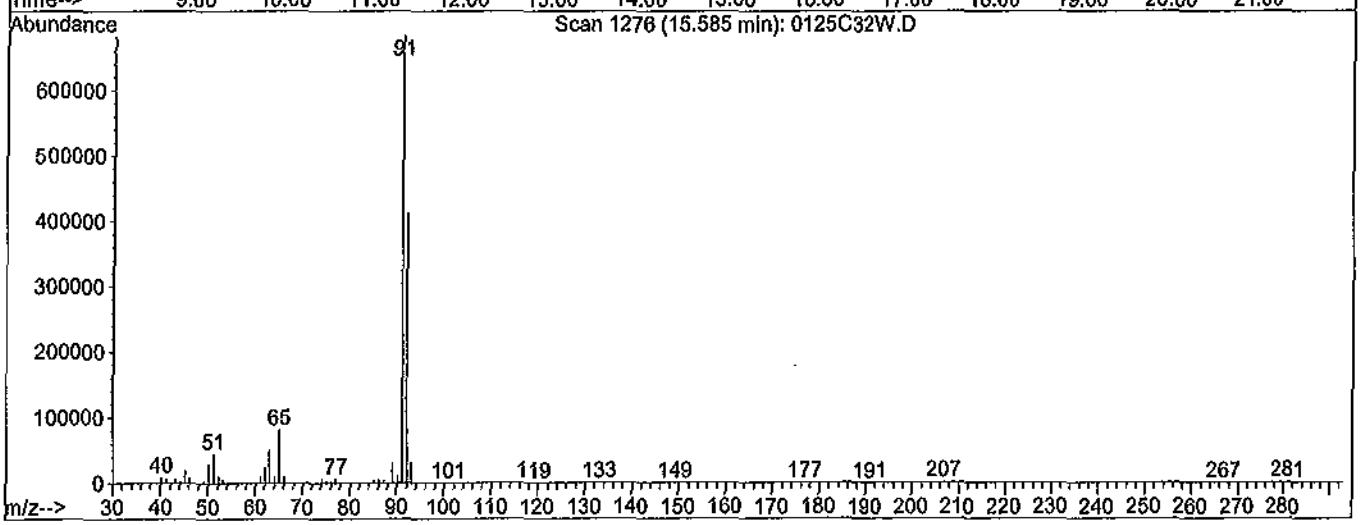


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C32W.D

(2) Gasoline (TMHB)

15.58min 245.6055ppb m

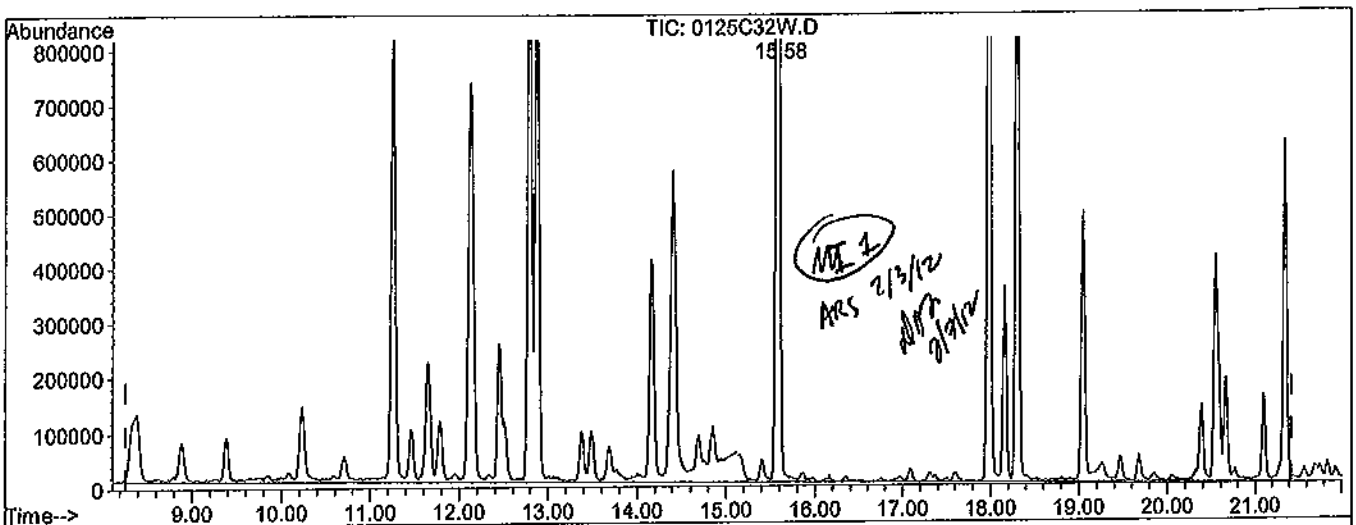
response 40810111

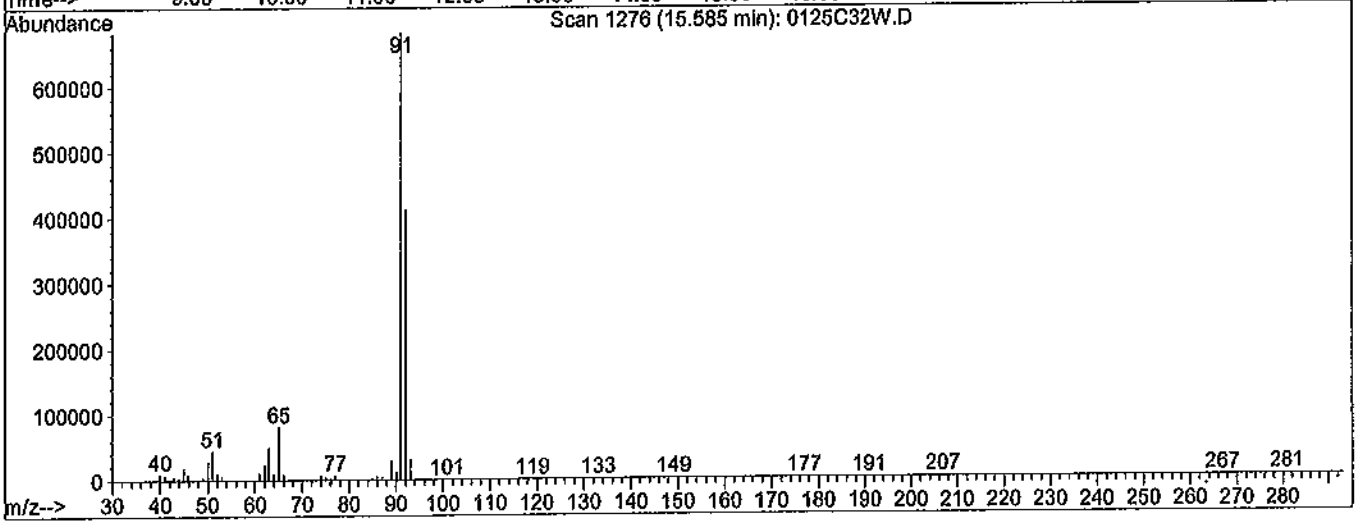
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.33#
0.00	0.00	0.94#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C32W.D Vial: 1
Acq On : 26 Jan 12 21:24 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@300ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:09 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C32W.D

(2) Gasoline (TMHB)

15.58min 304.8615ppb m

response 46451061

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.29#
0.00	0.00	0.83#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:07 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1115516	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1310876	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.19	TIC	1420552	25.00000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline	15.58	TIC	72391801m	556.70838	ppb	100

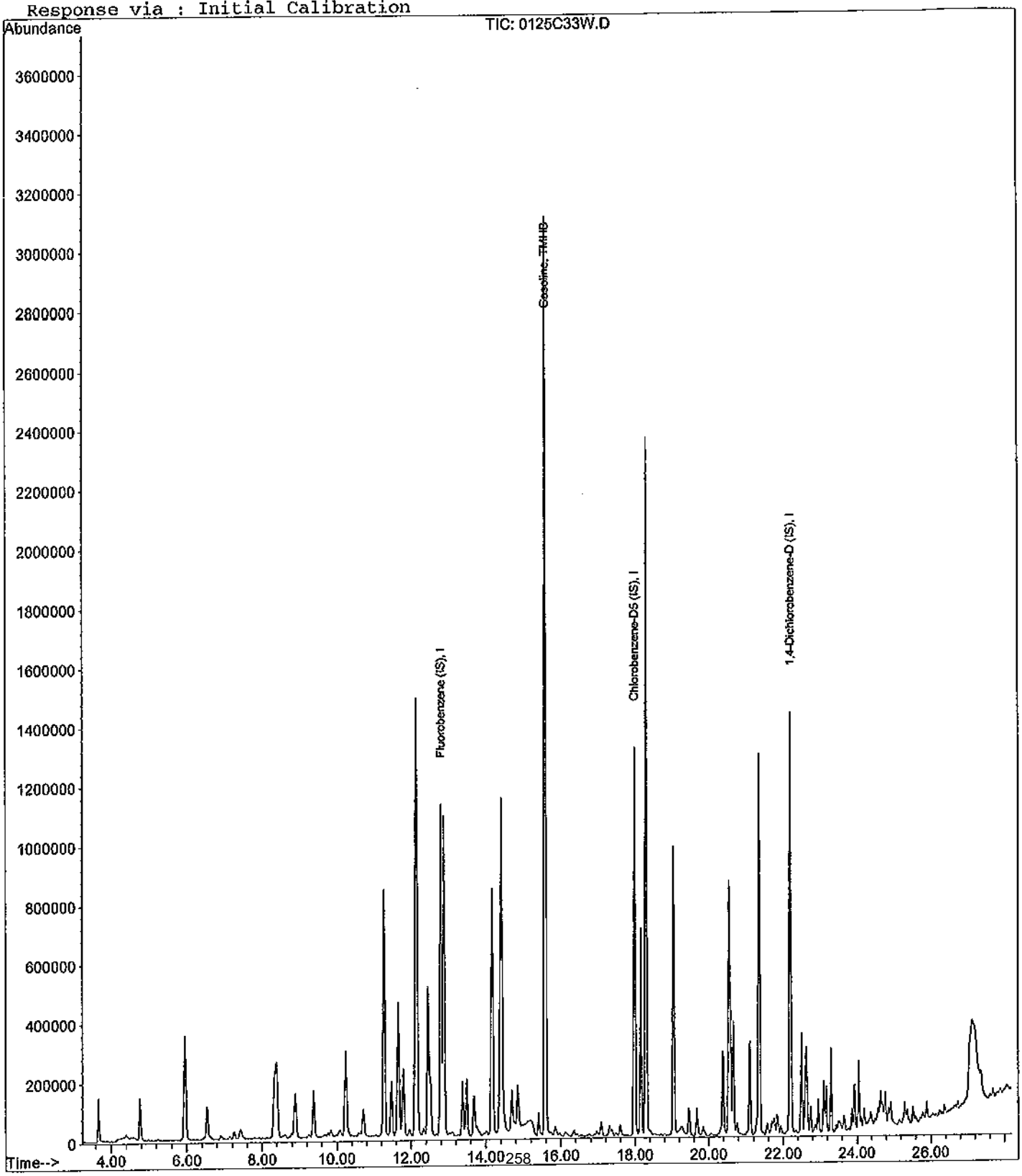
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D
Acq On : 26 Jan 12 22:01
Sample : Vol. Std. 01-26-12@600ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:07 2012 Quant Results File: CGAS.RES

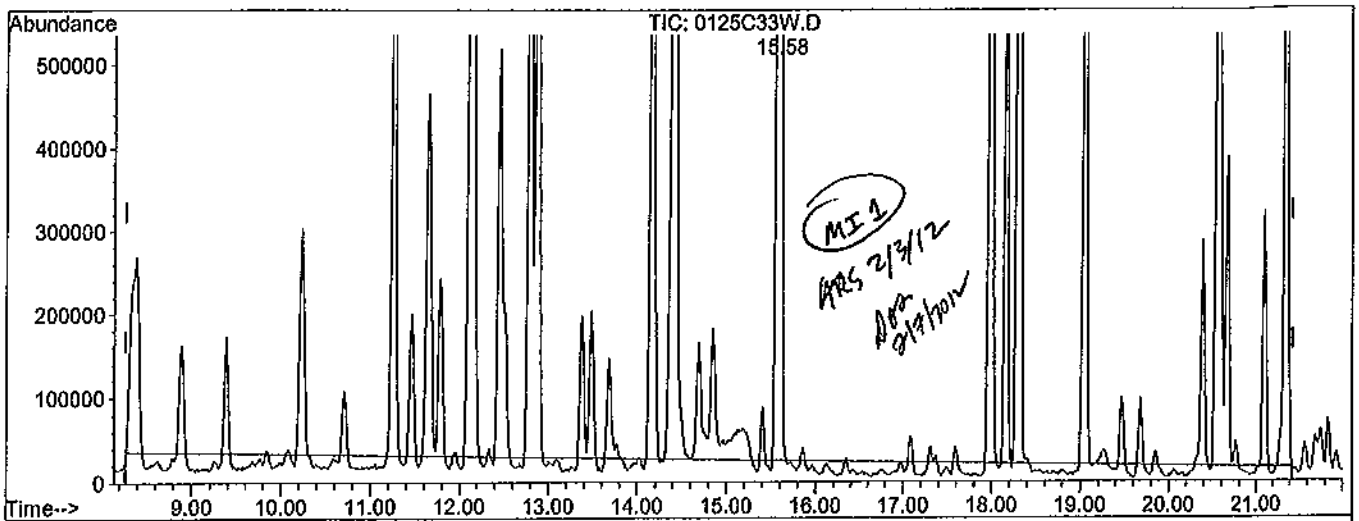
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

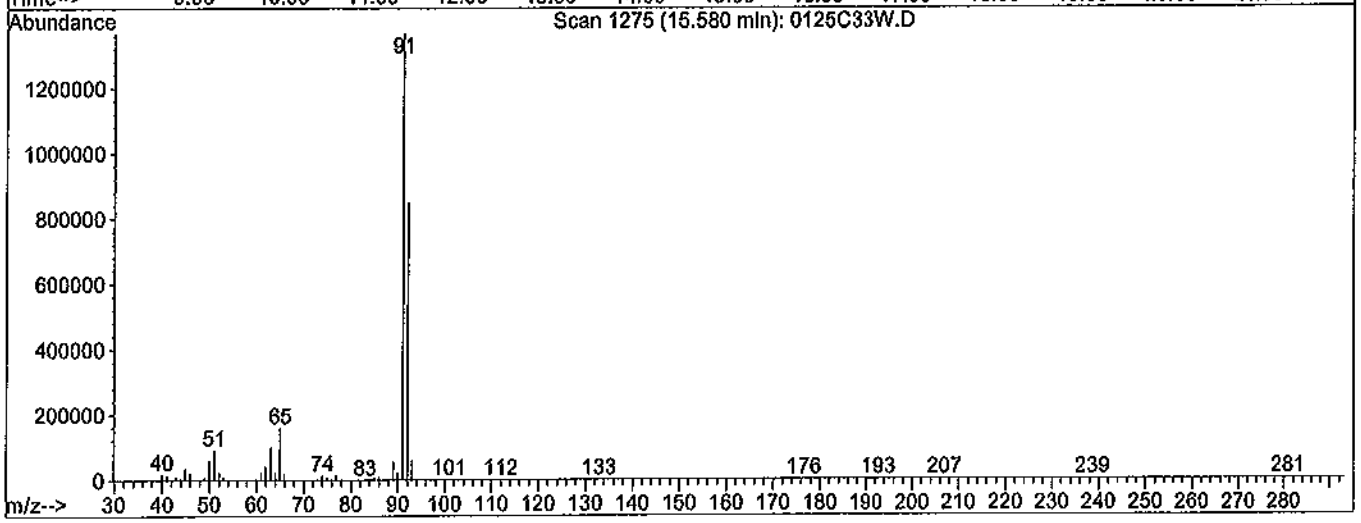


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C33W.D

(2) Gasoline (TMHB)

15.58min 556.7084ppb m

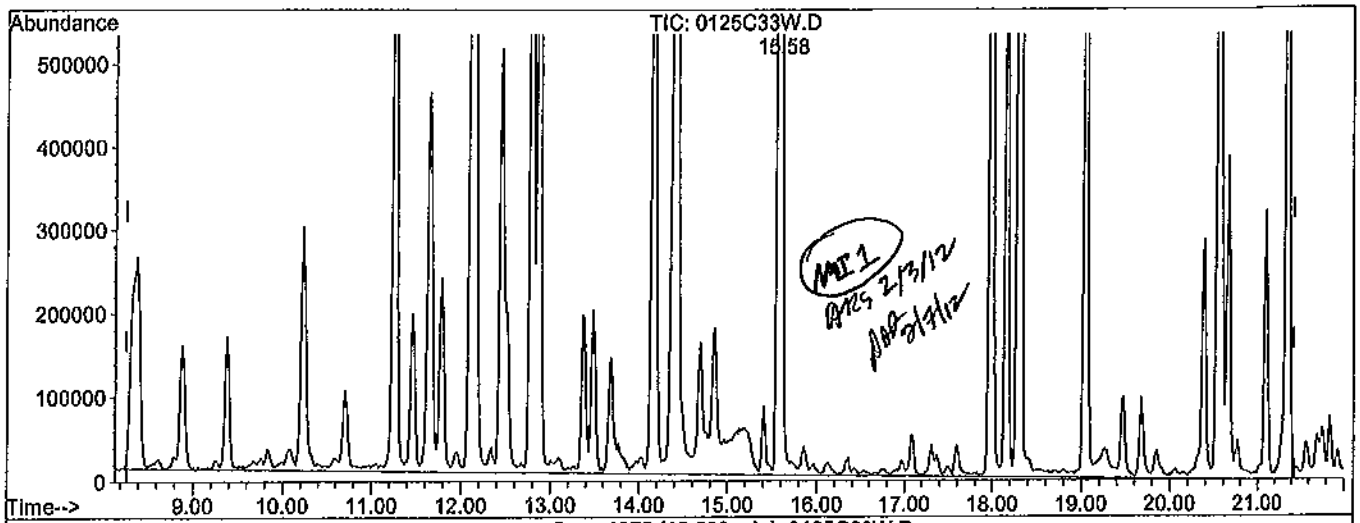
response 72391801

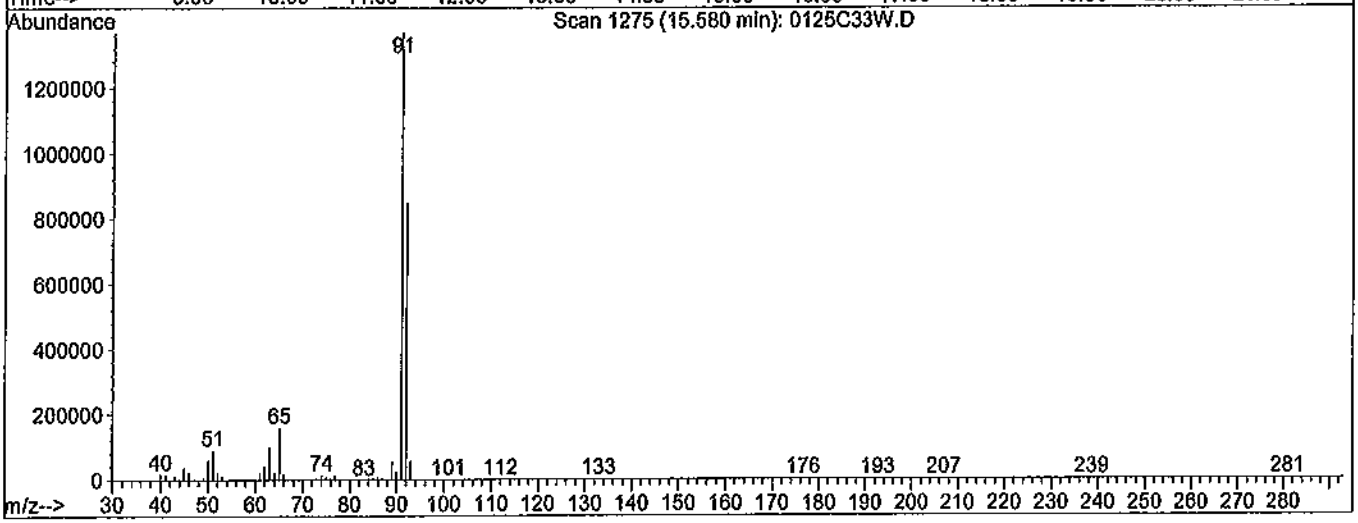
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.18#
0.00	0.00	0.53#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C33W.D Vial: 1
Acq On : 26 Jan 12 22:01 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@600ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:16 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C33W.D

(2) Gasoline (TMHB)

15.58min 621.4121ppb m

response 78723288

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.16#
0.00	0.00	0.49#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:17 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1172096	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1436710	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1528793	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	102155823m	810.48263	ppb	100

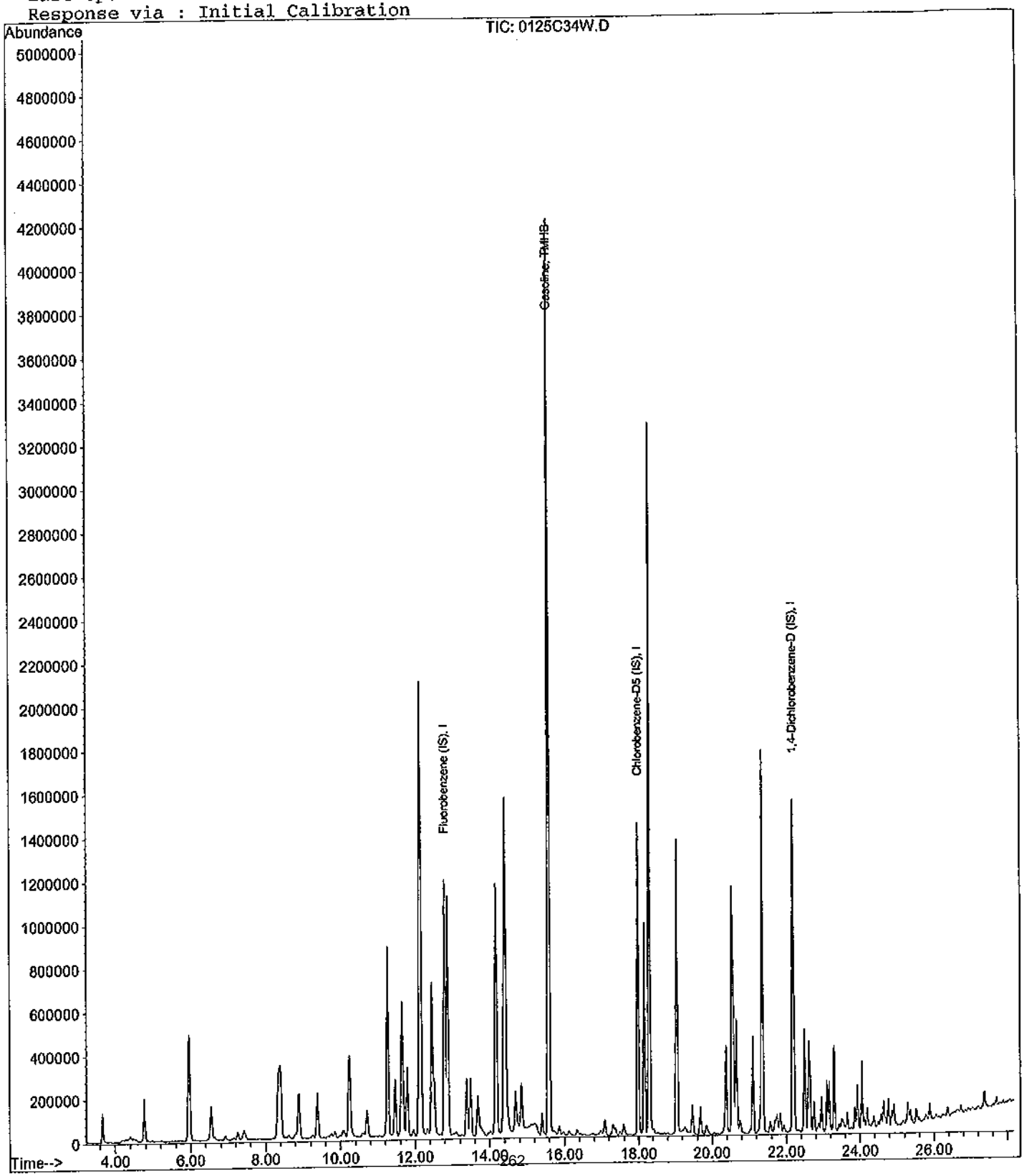
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D
Acq On : 26 Jan 12 22:38
Sample : Vol. Std. 01-26-12@800ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:17 2012 Quant Results File: CGAS.RES

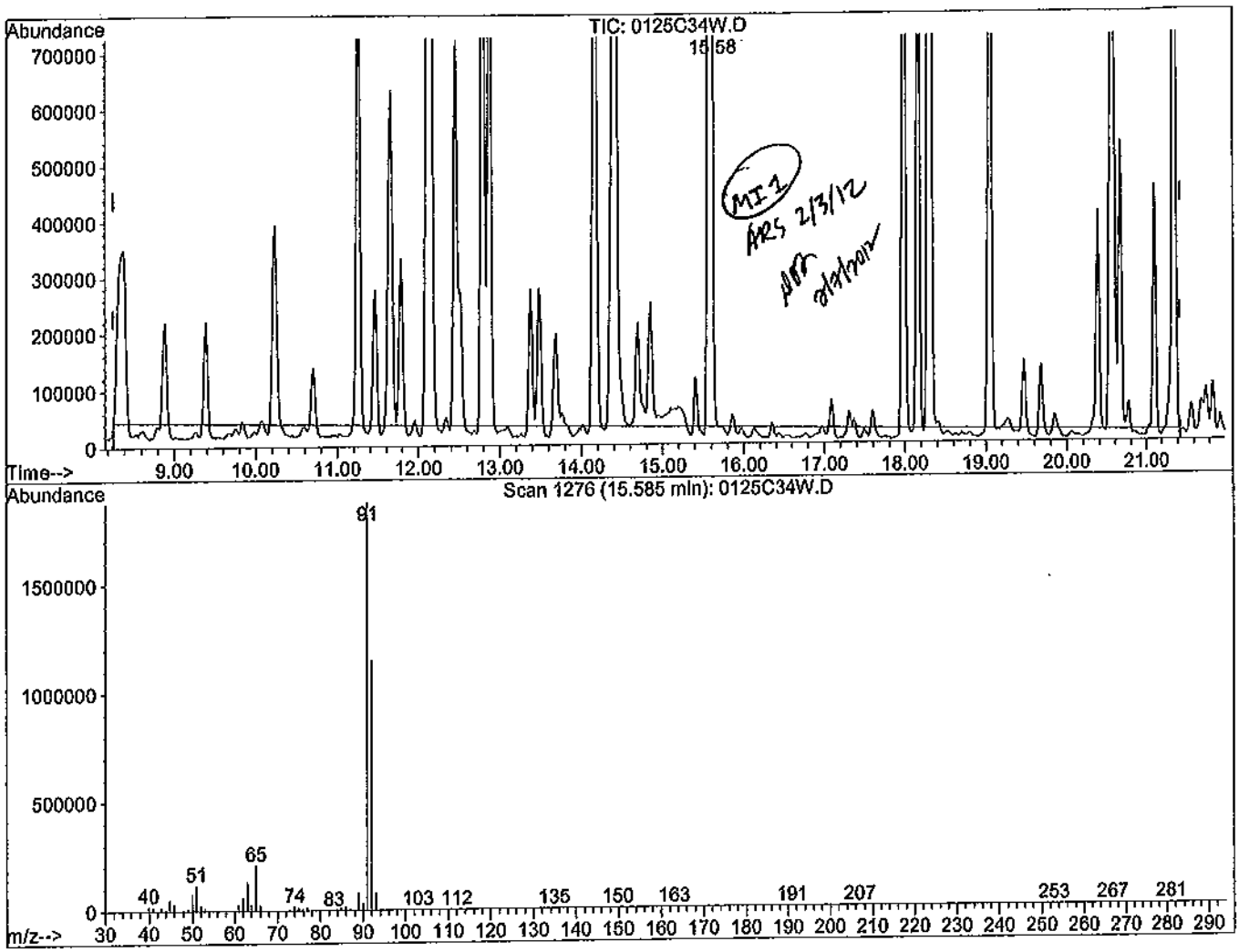
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration



TIC: 0125C34W.D

(2) Gasoline (TMHB)

15.58min 730.0328ppb m

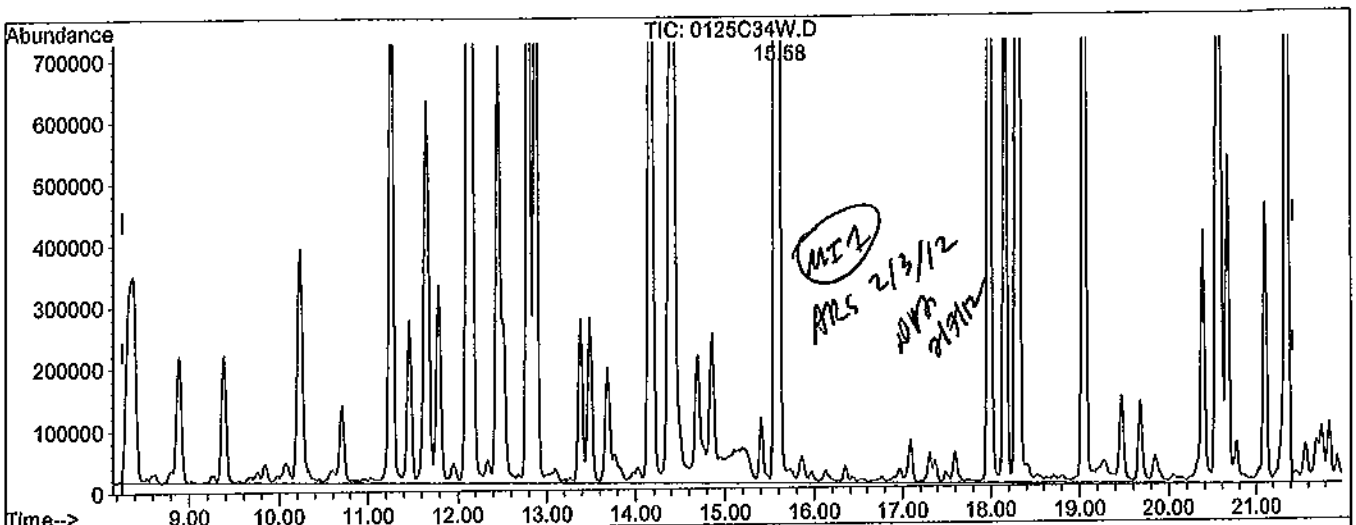
response 93884232

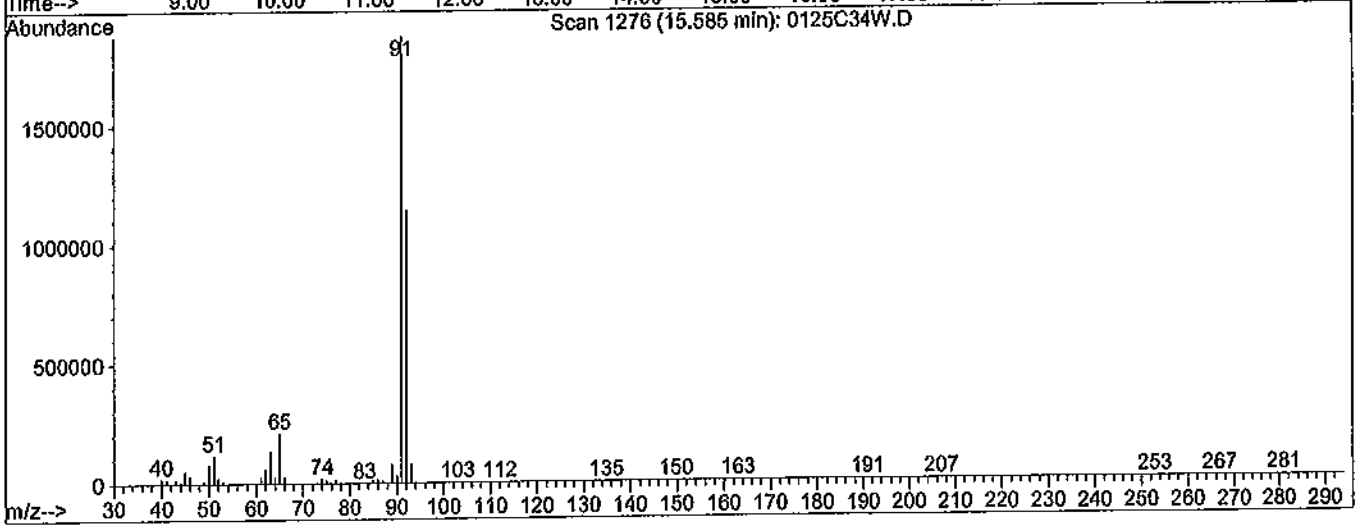
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.14#
0.00	0.00	0.44#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C34W.D Vial: 1
Acq On : 26 Jan 12 22:38 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@800ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:17 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C34W.D

(2) Gasoline (TMHB)

15.58min 810.4826ppb m

response 102155823

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 (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 3 12:18 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1232092	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1442206	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1630956	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	129481006m	1014.92580	ppb	100

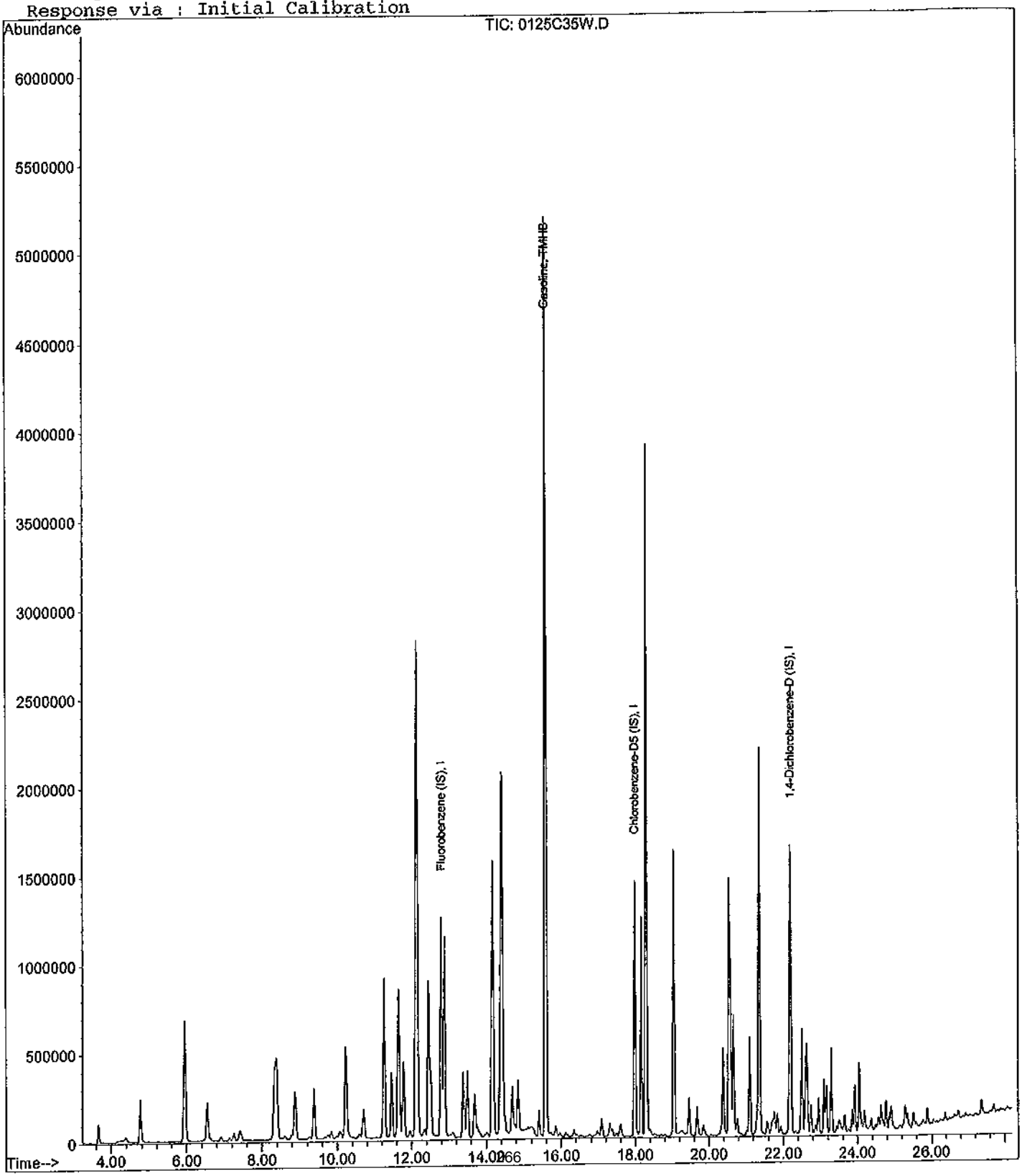
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D
Acq On : 26 Jan 12 23:15
Sample : Vol. Std. 01-26-12@1000ug/L
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 3 12:18 2012 Quant Results File: CGAS.RES

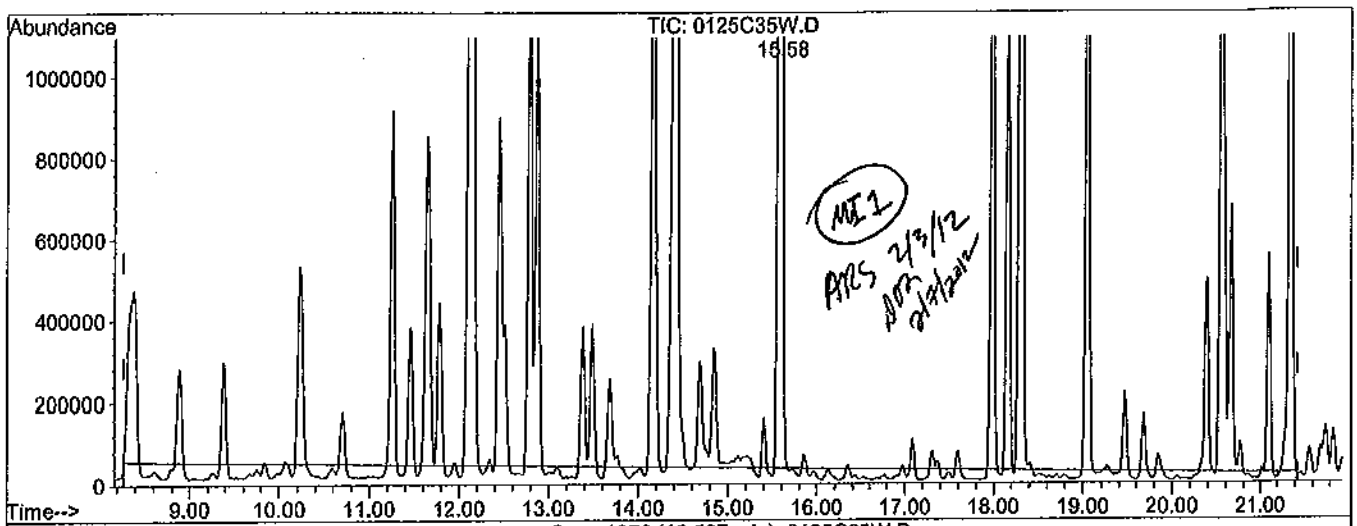
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Initial Calibration

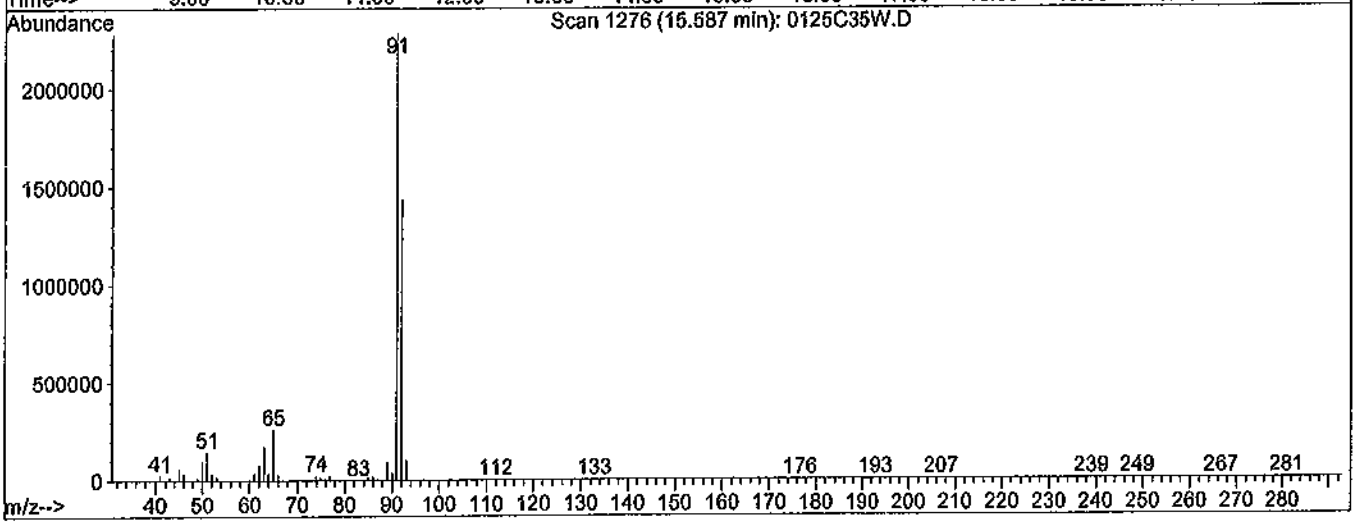


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:07 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





TIC: 0125C35W.D

(2) Gasoline (TMHB)

15.58min 923.0372ppb m

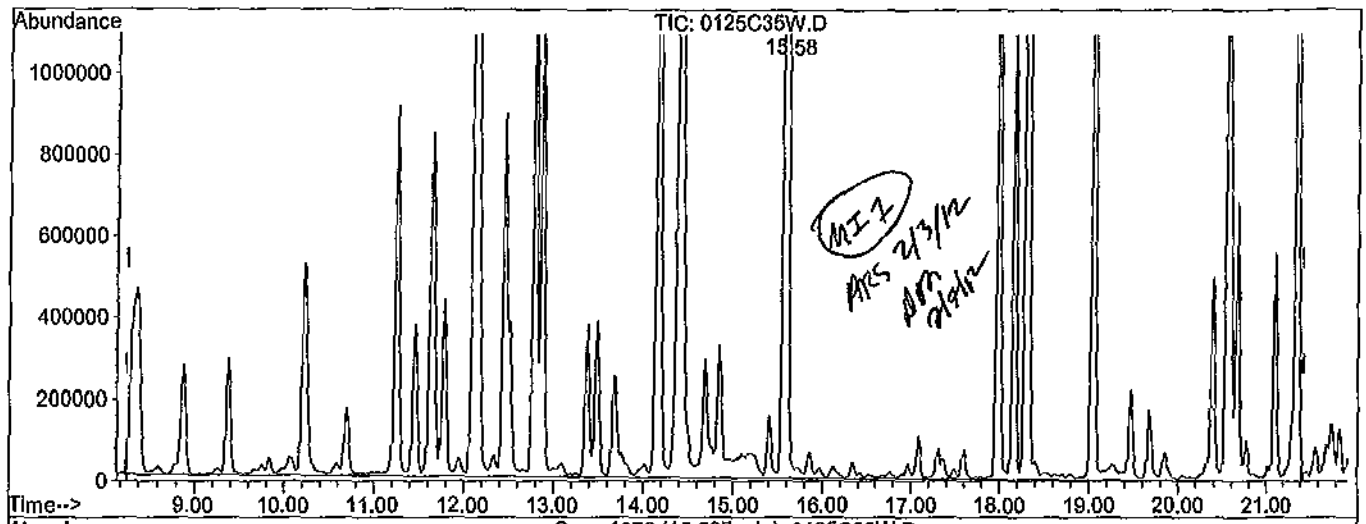
response 119549717

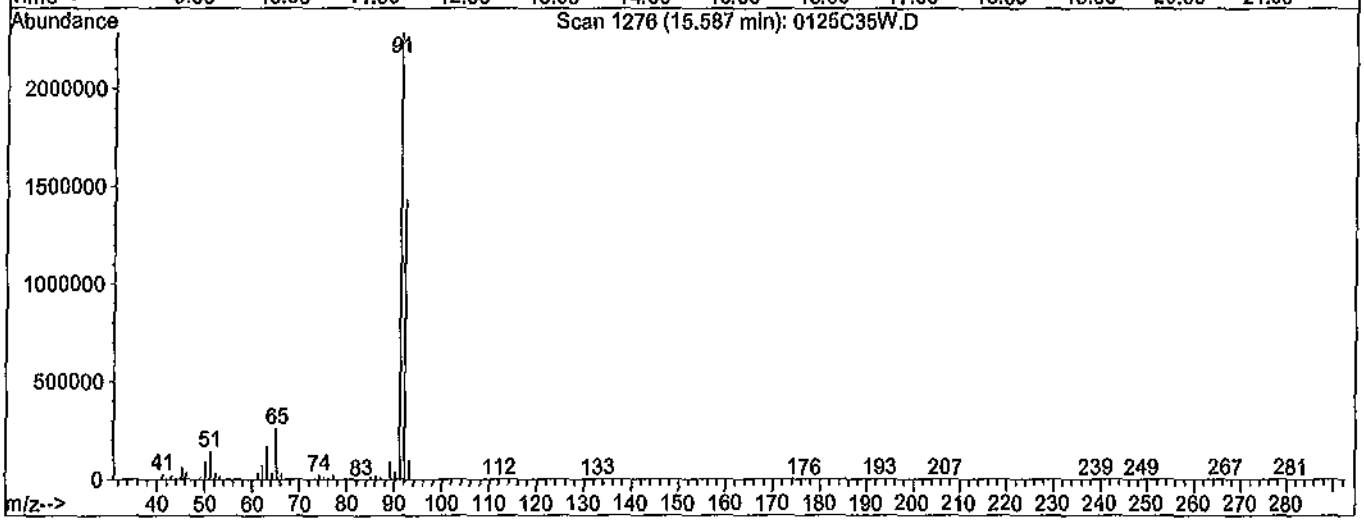
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.12#
0.00	0.00	0.35#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C35W.D Vial: 1
Acq On : 26 Jan 12 23:15 Operator: RS, ARS
Sample : Vol. Std. 01-26-12@1000ug/L Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 3 12:18 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Fri Feb 03 12:07:16 2012
Response via : Single Level Calibration





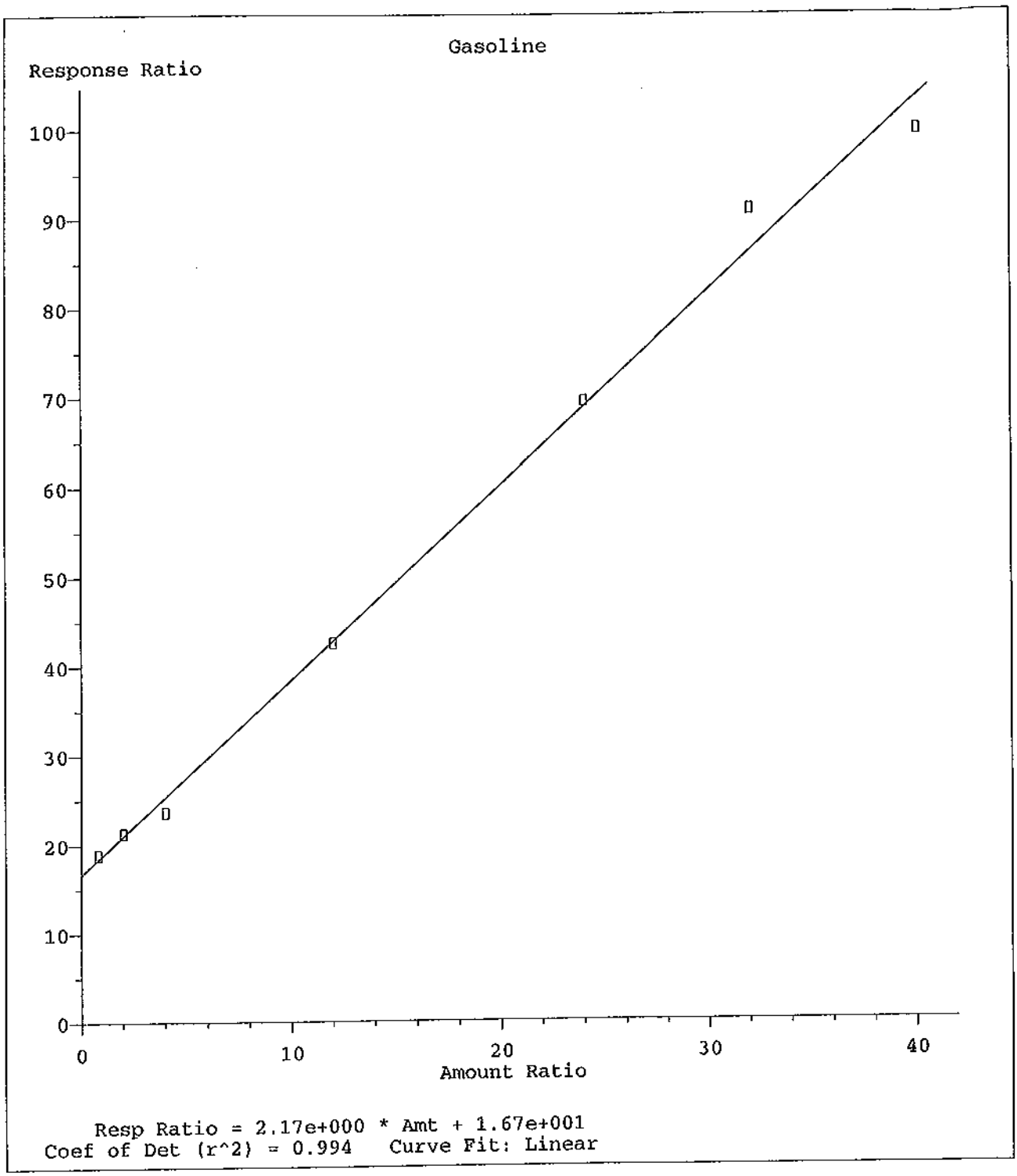
TIC: 0125C35W.D

(2) Gasoline (TMHB)

15.58min 1014.9258ppb m

response 129481006

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.11#
0.00	0.00	0.33#
0.00	0.00	0.00



Method Name: M:\CHICO\DATA\C120125\CGAS.M
Calibration Table Last Updated: Tue Feb 07 09:36:43 2012

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 66972
Date Analyzed: 01/27/12
Instrument: Chico
Initial Cal. Date: 01/25/12
Data File: 0125C38W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline	7.410	3.556	52	TMHBL	0.36
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			52.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00

Quant Time: Feb 7 9:37 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	TIC	1138336	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	17.98	TIC	1375303	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.18	TIC	1433410	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.58	TIC	48578324m	298.92978	ppb	100

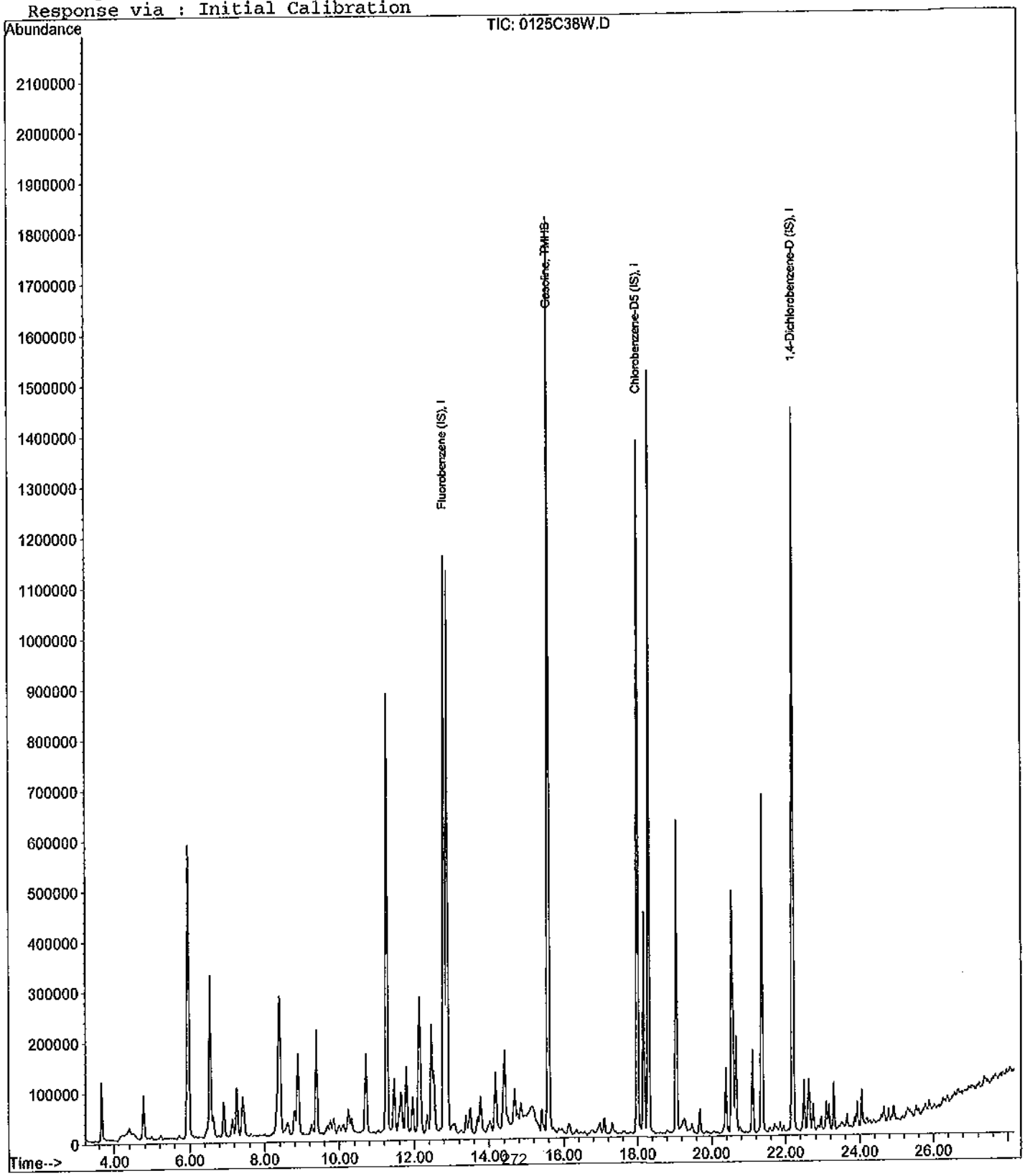
Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D
Acq On : 27 Jan 12 1:06
Sample : Second Source 01-26-12
Misc : Water 10mLw/ IS:12-06-11

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Quant Time: Feb 7 9:37 2012 Quant Results File: CGAS.RES

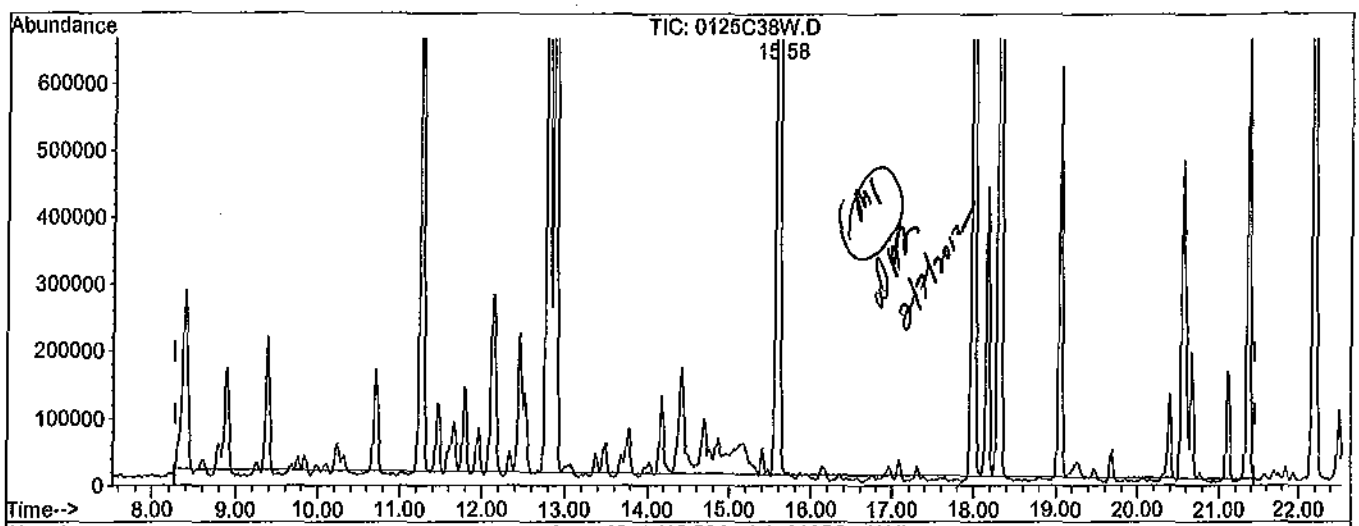
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

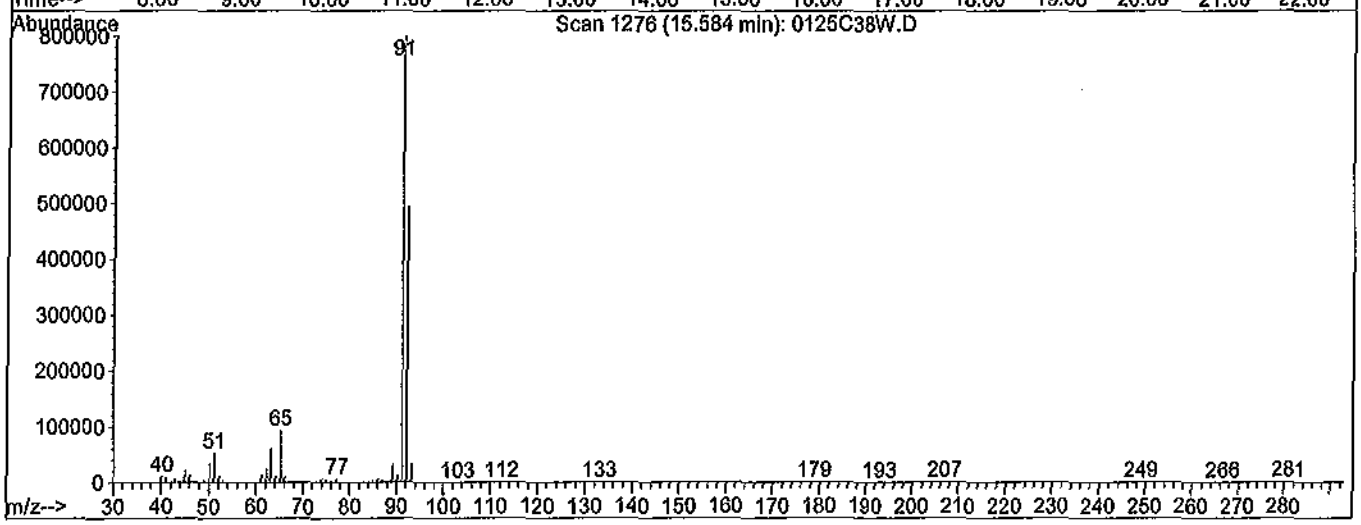


Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:37 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0125C38W.D

(2) Gasoline (TMHB)

15.58min 202.8575ppb m

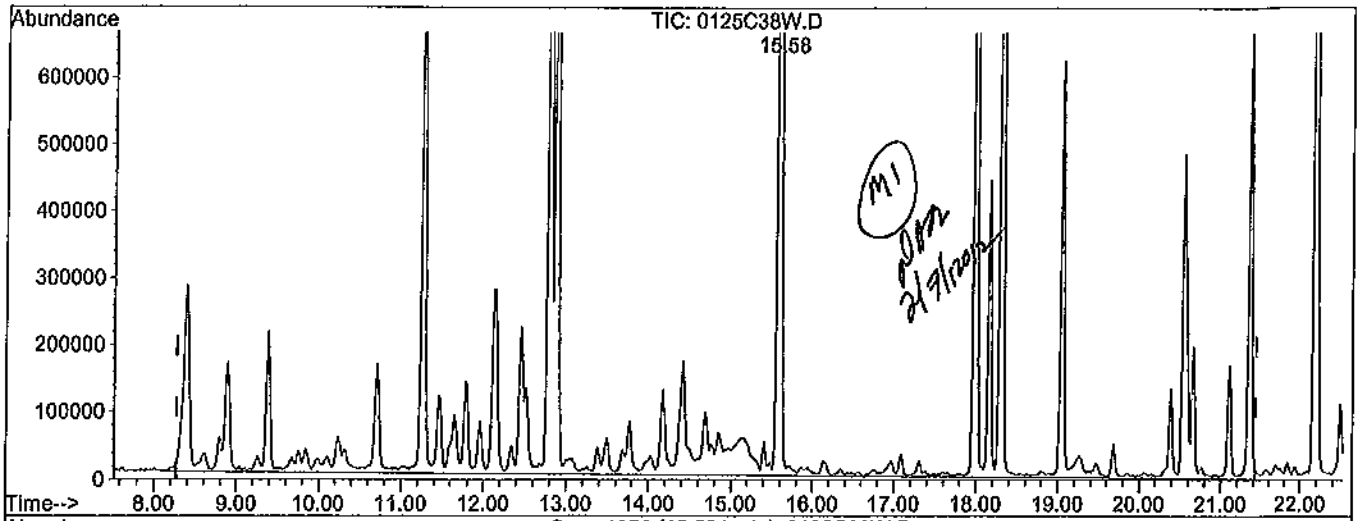
response 39074056

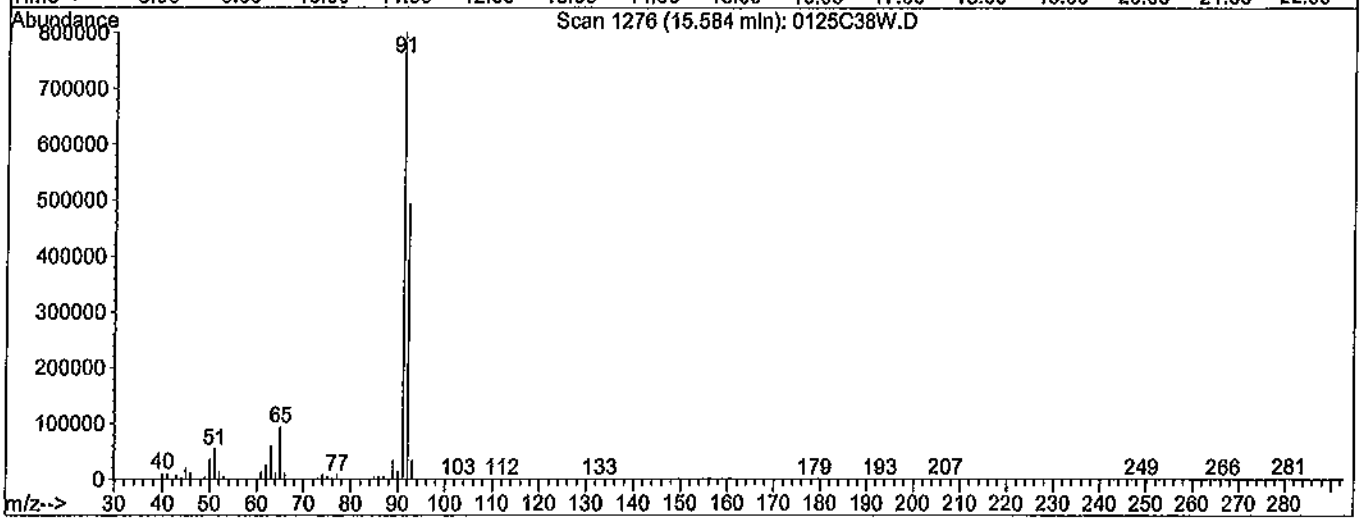
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.34#
0.00	0.00	1.04#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120125\0125C38W.D Vial: 1
Acq On : 27 Jan 12 1:06 Operator: RS, ARS
Sample : Second Source 01-26-12 Inst : Chico
Misc : Water 10mLw/ IS:12-06-11 Multiplr: 1.00
Quant Time: Feb 7 9:37 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0125C38W.D

(2) Gasoline (TMHB)

15.58min 298.9298ppb m

response 48578324

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.28#
0.00	0.00	0.84#
0.00	0.00	0.00

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 66972
Date Analyzed: 02/15/12
Instrument: Chico
Initial Cal. Date: 02/02/12
Data File: 0215C06W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TMHB	Gasoline	7.410	3.989	46	TMHBL	20	19.6 OK
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			46.0			

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C06W.D Vial: 1
Acq On : 15 Feb 12 14:32 Operator: RS, ARS
Sample : GAS CCV@300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 8:44 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.82	TIC	1206179	25.00000	ppb	0.03
3) Chlorobenzene-D5 (IS)	18.00	TIC	1255722	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.20	TIC	1295215	25.00000	ppb	0.02

System Monitoring Compounds

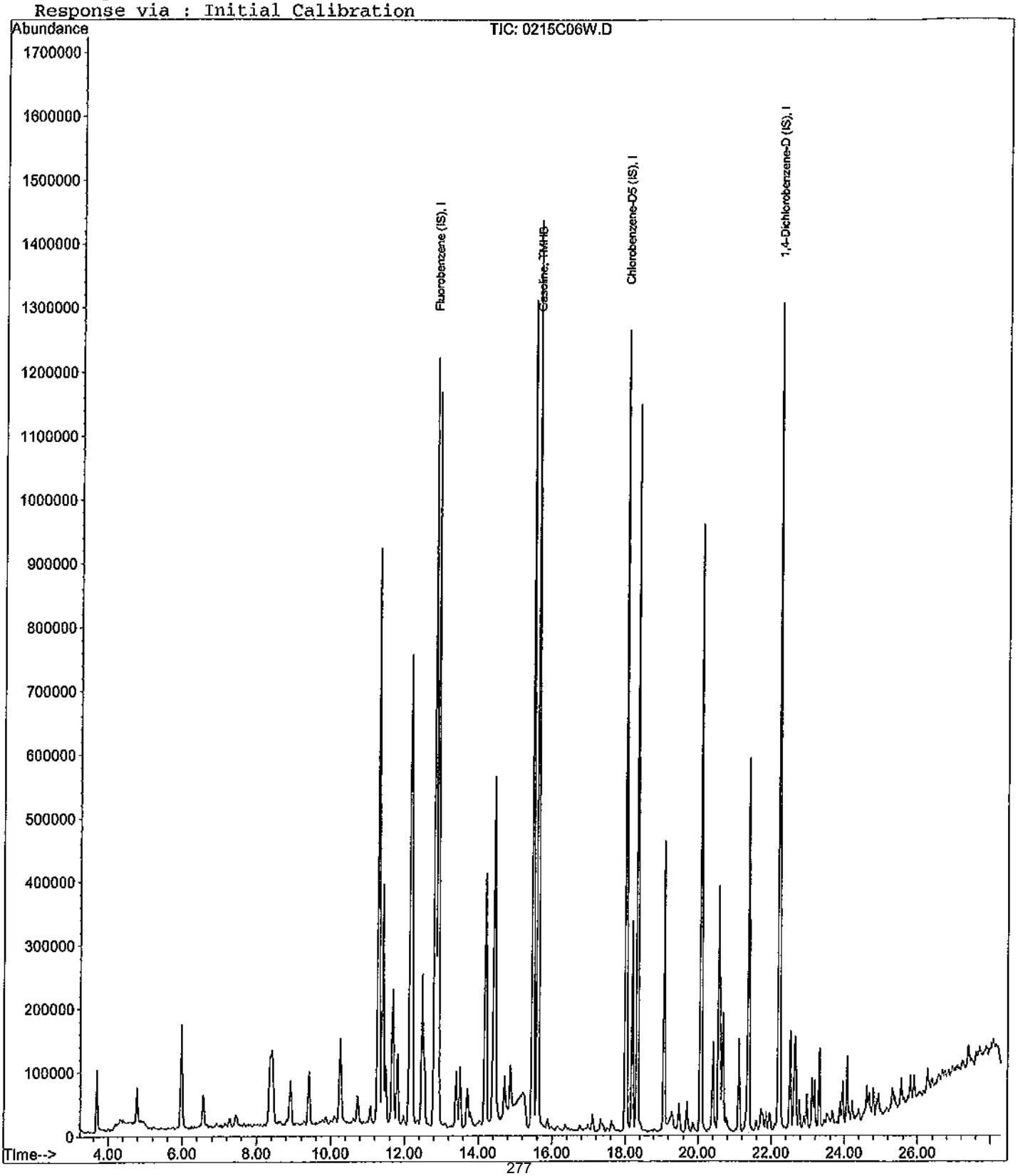
Target Compounds						Qvalue
2) Gasoline	15.60	TIC	57736478m	358.67701	ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C06W.D Vial: 1
Acq On : 15 Feb 12 14:32 Operator: RS, ARS
Sample : GAS CCV@300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 8:44 2012 Quant Results File: CGAS.RES

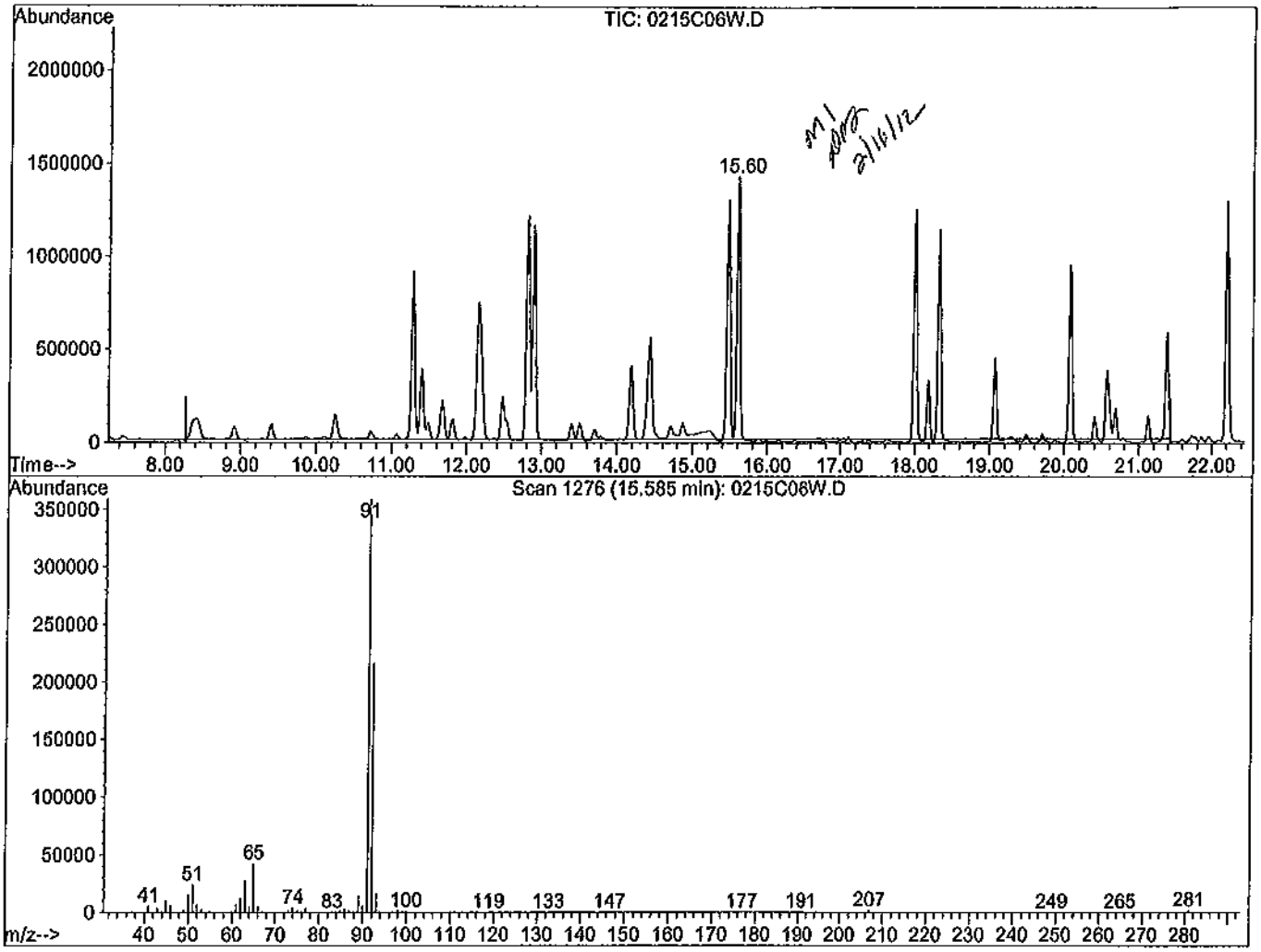
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C06W.D Vial: 1
Acq On : 15 Feb 12 14:32 Operator: RS, ARS
Sample : GAS CCV@300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 16 8:43 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0215C06W.D

(2) Gasoline (TMHB)

15.58min 273.0311ppb m

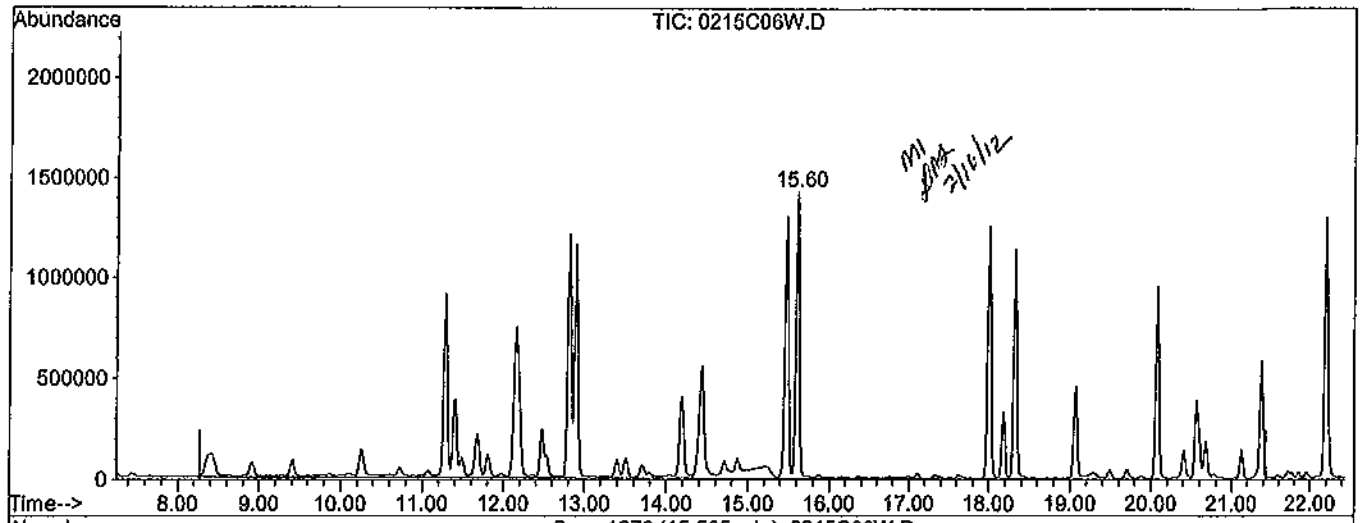
response 48758701

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.26#
0.00	0.00	0.75#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C06W.D Vial: 1
Acq On : 15 Feb 12 14:32 Operator: RS, ARS
Sample : GAS CCV@300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 16 8:44 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0215C06W.D

(2) Gasoline (TMHB)

15.60min 358.6770ppb m

response 57736478

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.22#
0.00	0.00	0.63#
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: **120215W-54765 - 164031**
Batch ID: #86RHB-120215AC

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	02/15/12	02/15/12
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	02/15/12	02/15/12
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/15/12	02/15/12
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	02/15/12	02/15/12
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	02/15/12	02/15/12
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	02/15/12	02/15/12
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	02/15/12	02/15/12
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	02/15/12	02/15/12
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	02/15/12	02/15/12
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	02/15/12	02/15/12
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	02/15/12	02/15/12
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	02/15/12	02/15/12
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	02/15/12	02/15/12
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	02/15/12	02/15/12
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	02/15/12	02/15/12
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	02/15/12	02/15/12
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	02/15/12	02/15/12
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	02/15/12	02/15/12
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	02/15/12	02/15/12
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	02/15/12	02/15/12
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	02/15/12	02/15/12

Quant Method: CALLW.M
Run #: 0215C10
Instrument: Chico
Sequence: C120202
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/21/12 4:08:55 PM

Method Blank

EPA 8260B VOCs + Gas Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **120215W-54765 - 164031**
Batch ID: #86RHB-120215AC

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	02/15/12	02/15/12
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	02/15/12	02/15/12
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	02/15/12	02/15/12
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	02/15/12	02/15/12
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	02/15/12	02/15/12
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	02/15/12	02/15/12
BLANK	SURROGATE: 1,2-DICHLOROET	97.1	70-120			%	02/15/12	02/15/12
BLANK	SURROGATE: 4-BROMOFLUORO	97.7	75-120			%	02/15/12	02/15/12
BLANK	SURROGATE: DIBROMOFLUOR	96.0	85-115			%	02/15/12	02/15/12
BLANK	SURROGATE: TOLUENE-D8 (S)	92.1	85-120			%	02/15/12	02/15/12

Quant Method: CALLW.M
Run #: 0215C10
Instrument: Chico
Sequence: C120202
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/21/12 4:08:55 PM

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C10W.D Vial: 1
Acq On : 15 Feb 12 17:00 Operator: RS, ARS
Sample : 120215A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 11:08 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Feb 16 10:23:35 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	96	559634	25.00000 ppb	0.00
54) Chlorobenzene-D5 (IS)	18.00	117	397568	25.00000 ppb	-0.01
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	208960	25.00000 ppb	-0.01
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.40	111	325662	21.55145 ppb	0.00
Spiked Amount 22.441			Recovery =	96.033%	
37) 1,2-DCA-D4(S)	12.20	65	224765	21.07712 ppb	0.00
Spiked Amount 21.710			Recovery =	97.084%	
55) Toluene-D8(S)	15.47	98	1313717	22.13143 ppb	0.00
Spiked Amount 24.025			Recovery =	92.118%	
63) 4-Bromofluorobenzene(S)	20.08	95	501620	25.30352 ppb	0.00
Spiked Amount 25.909			Recovery =	97.663%	
Target Compounds					Qvalue
19) Methylene chloride	8.48	84	5589	0.39077 ppb J #	57 out in CCV

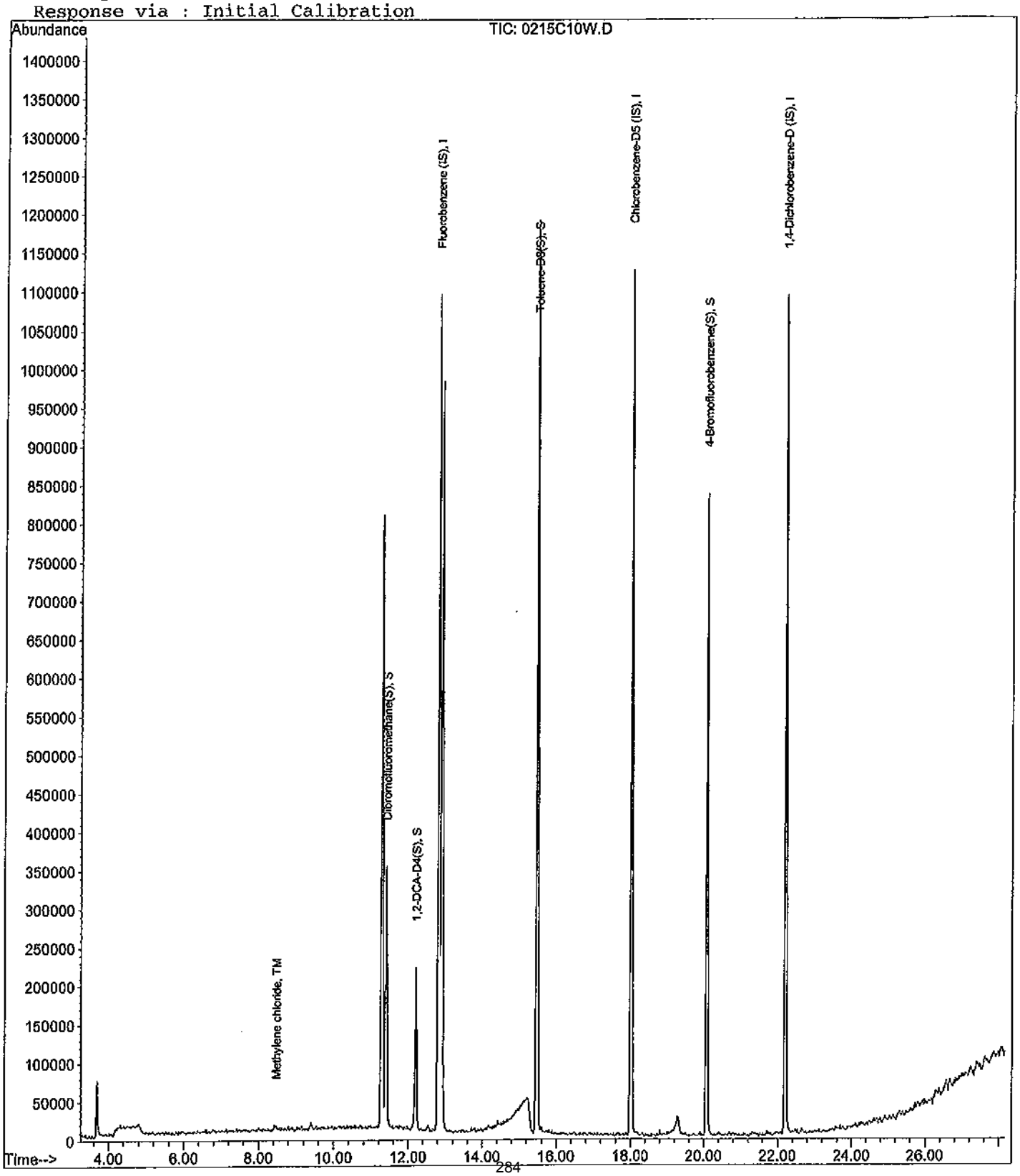
ARS 2/16/12

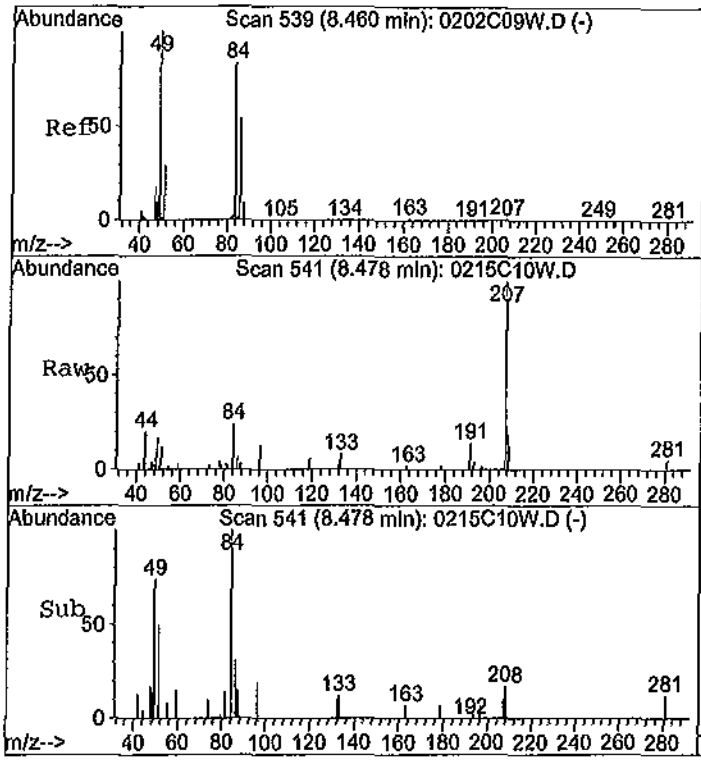
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C10W.D Vial: 1
Acq On : 15 Feb 12 17:00 Operator: RS, ARS
Sample : 120215A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 11:08 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Feb 16 10:23:35 2012
Response via : Initial Calibration

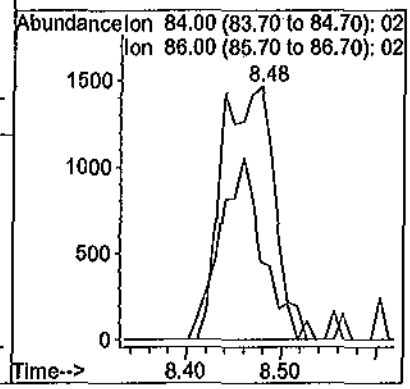




#19
Methylene chloride
Concen: 0.39077 ppb
RT: 8.48 min Scan# 541
Delta R.T. 0.02 min
Lab File: 0215C10W.D
Acq: 15 Feb 12 17:00

Tgt Ion: 84 Resp: 5589

Ion	Ratio	Lower	Upper
84	100		
86	30.7	45.3	84.1#



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C10W.D Vial: 1
Acq On : 15 Feb 12 17:00 Operator: RS, ARS
Sample : 120215A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 13:17 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	TIC	1083706	25.00000	ppb	0.02
3) Chlorobenzene-D5 (IS)	18.00	TIC	1123272	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.20	TIC	1087498	25.00000	ppb	0.01

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.47	TIC	22996944m	52.06328	ppb ND	100

No Gasoline Pattern

ARS 2/16/12

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

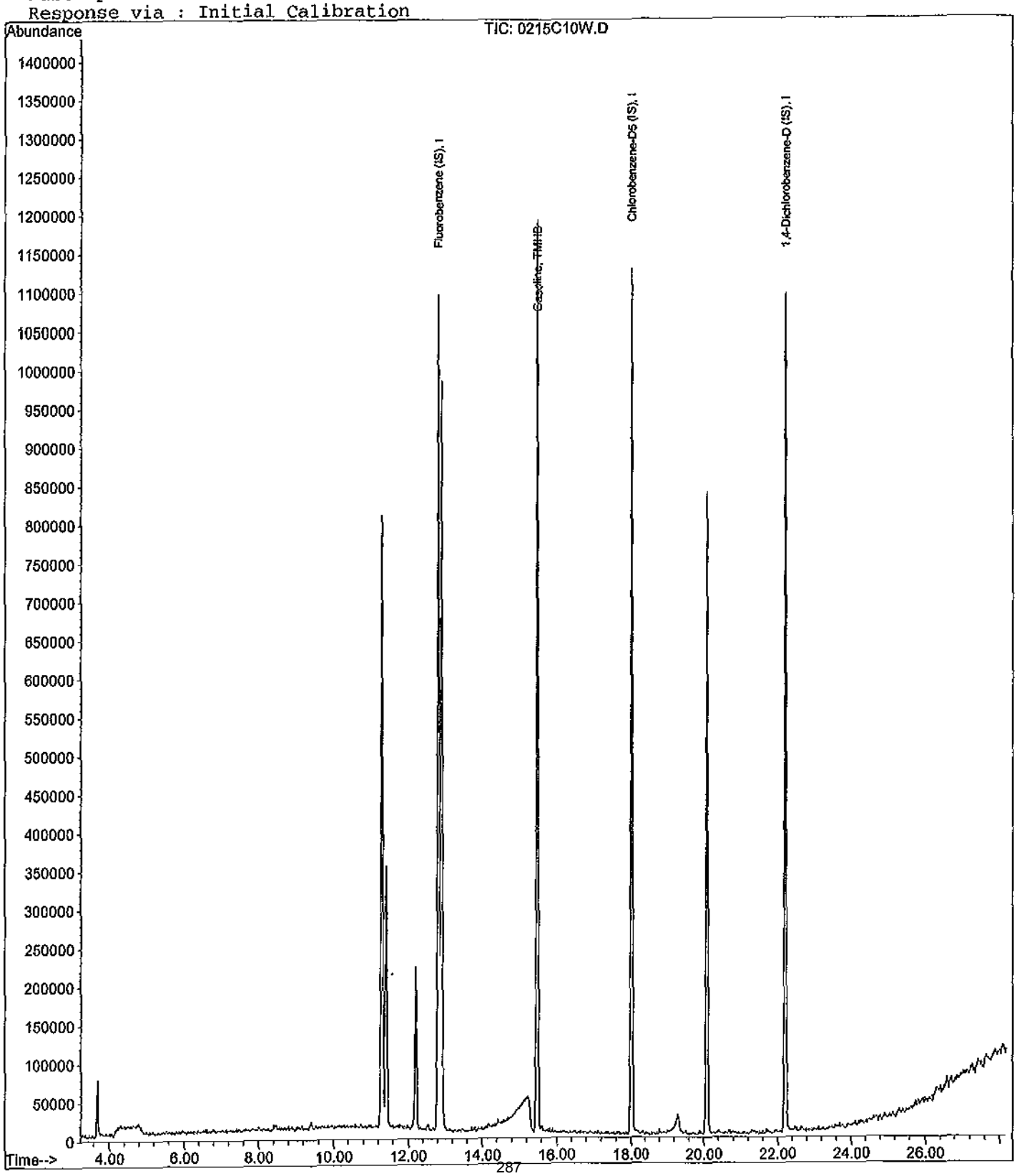
0215C10W.D CGAS.M Thu Feb 16 13:23:08 2012

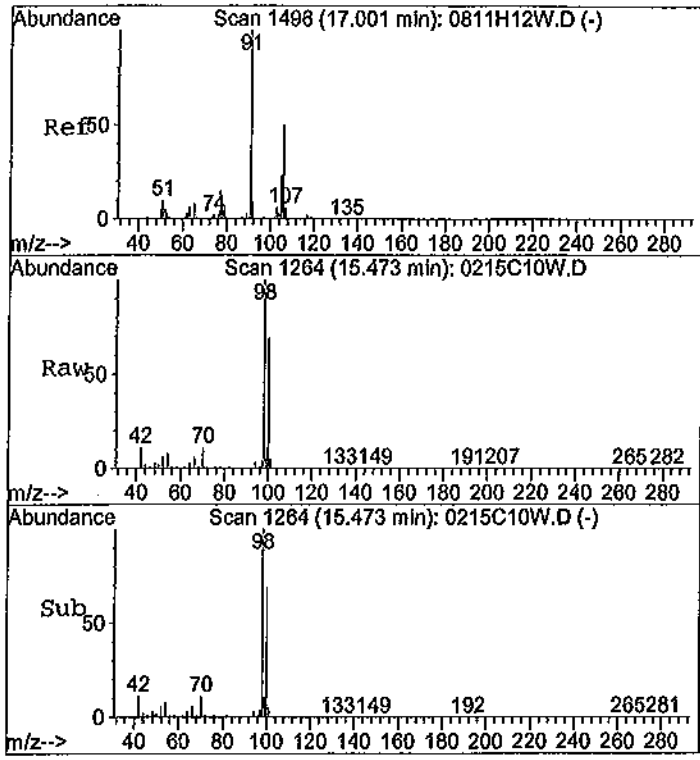
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C10W.D Vial: 1
Acq On : 15 Feb 12 17:00 Operator: RS, ARS
Sample : 120215A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 13:17 2012 Quant Results File: CGAS.RES

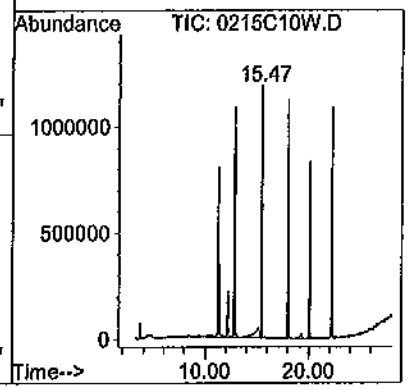
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration





#2
Gasoline
Concen: 52.06328 ppb m
RT: 15.47 min Scan# 1264
Delta R.T. -0.11 min
Lab File: 0215C10W.D
Acq: 15 Feb 12 17:00

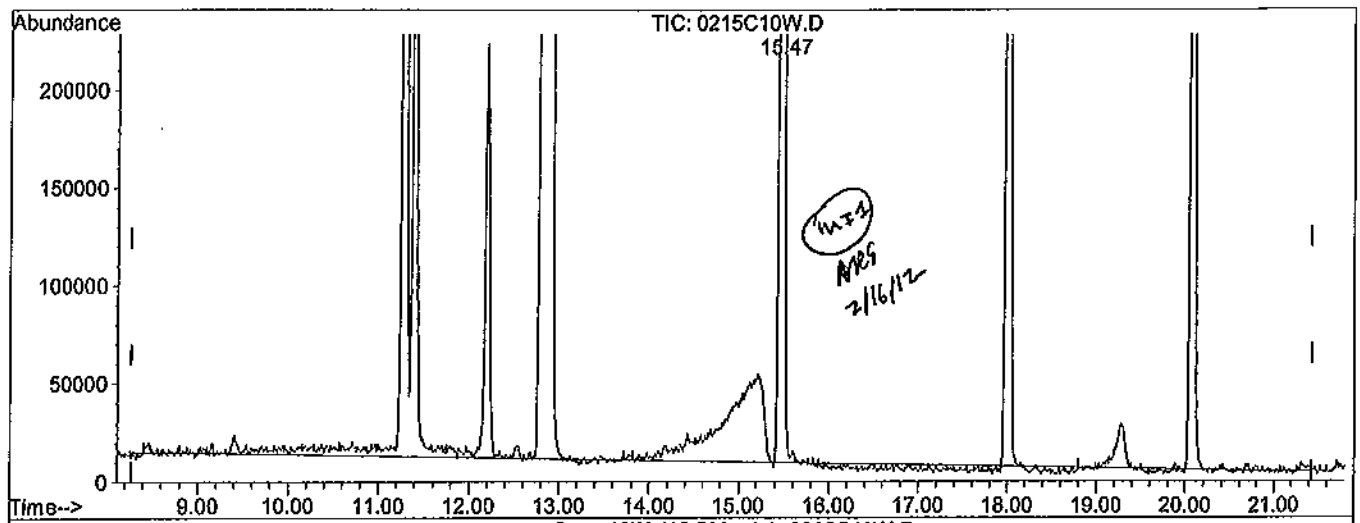
Tgt Ion:TIC Resp:22996944

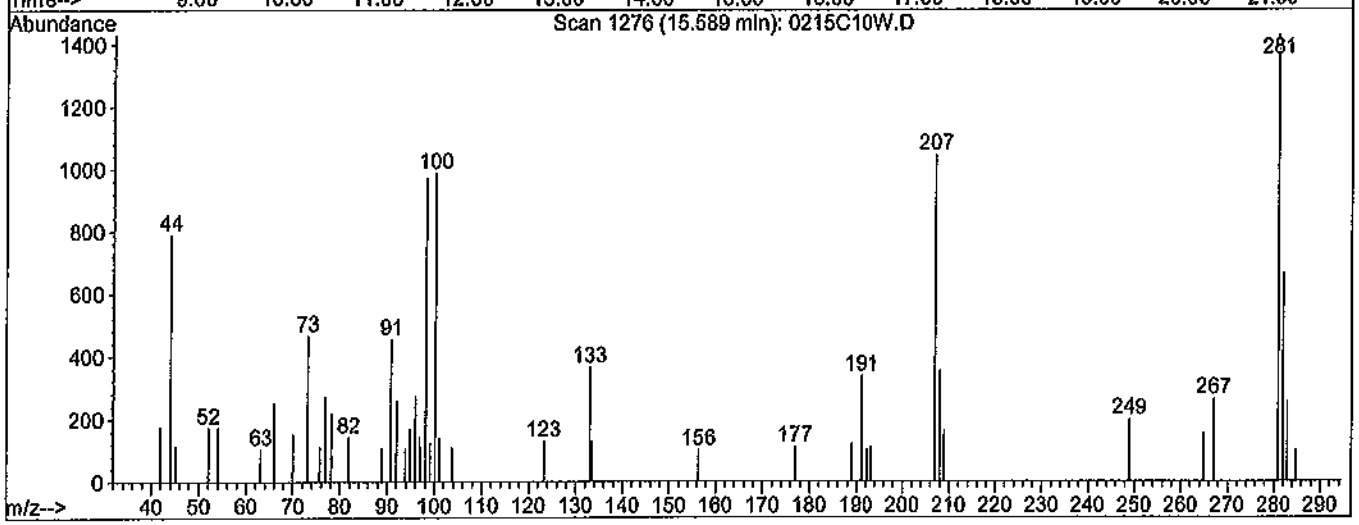


Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C10W.D Vial: 1
Acq On : 15 Feb 12 17:00 Operator: RS, ARS
Sample : 120215A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 16 13:16 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0215C10W.D

(2) Gasoline (TMHB)

15.58min -2.0997ppb m

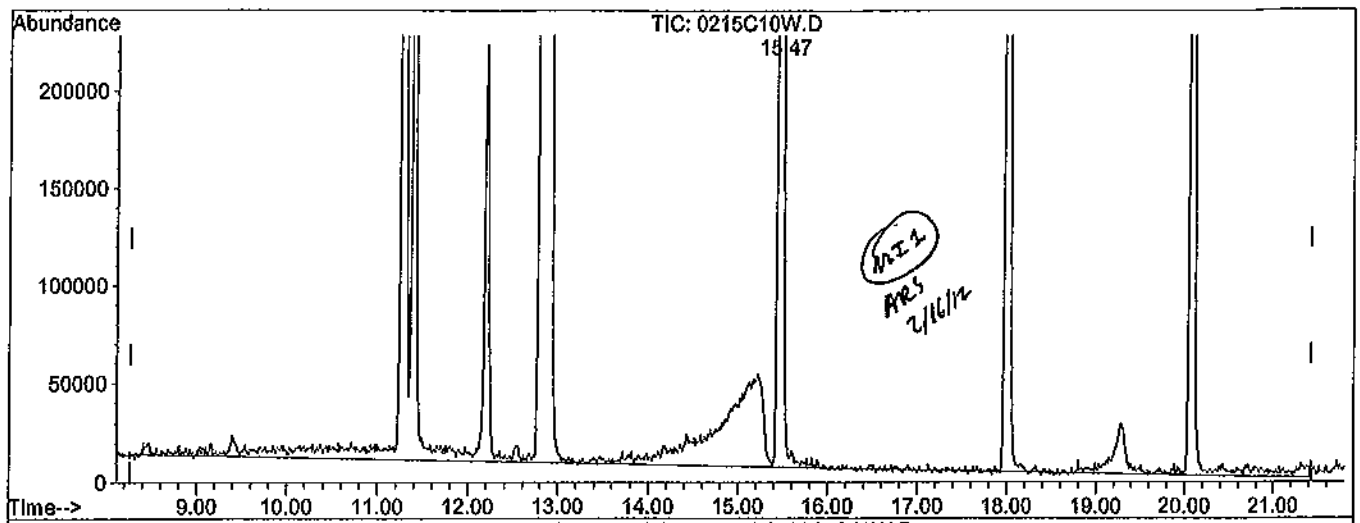
response 17895835

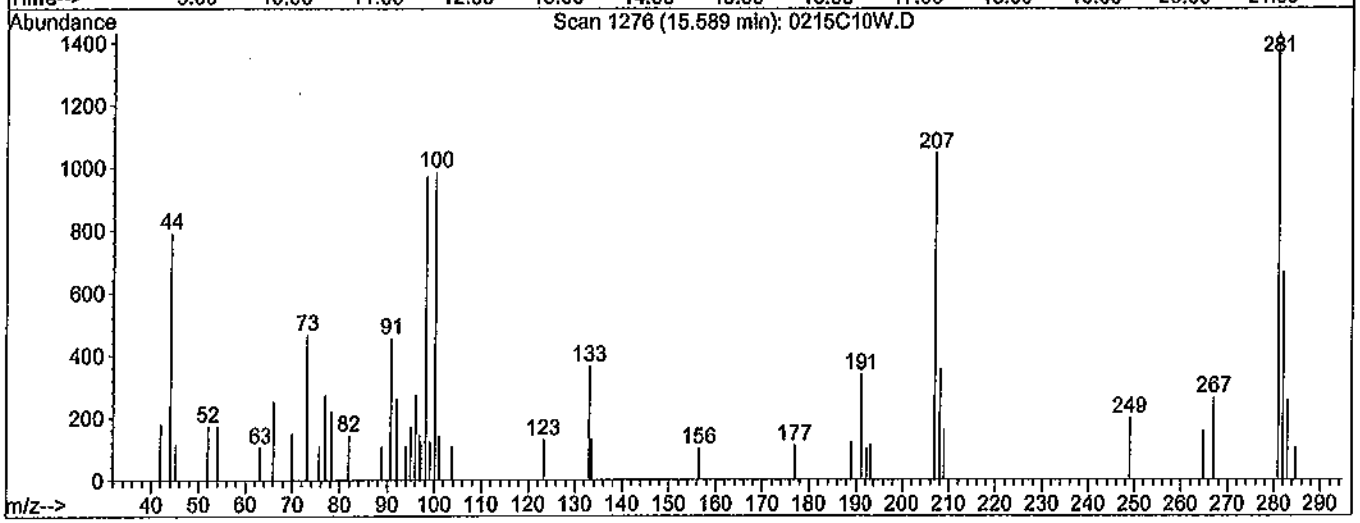
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.59#
0.00	0.00	1.76#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C10W.D Vial: 1
Acq On : 15 Feb 12 17:00 Operator: RS, ARS
Sample : 120215A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 16 13:17 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0215C10W.D

(2) Gasoline (TMHB)

15.47min 52.0633ppb m

response 22996944

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.46#
0.00	0.00	1.37#
0.00	0.00	0.00

Method Blank

EPA 8260B VOCS + GAS WATER

Blank Name/QCG: **120216W-54765 - 164032**
Batch ID: #86RHB-120216AC

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHYLENE CHLORIDE	0.74 J	5.0	0.70	0.35	ug/L	02/16/12	02/16/12
BLANK	SURROGATE: 1,2-DICHLOROET	101	70-120			%	02/16/12	02/16/12
BLANK	SURROGATE: 4-BROMOFLUORO	98.5	75-120			%	02/16/12	02/16/12
BLANK	SURROGATE: DIBROMOFLUOR	99.5	85-115			%	02/16/12	02/16/12
BLANK	SURROGATE: TOLUENE-D8 (S)	89.3	85-120			%	02/16/12	02/16/12

J = Estimated value.

Quant Method: CALLW.M
Run #: 0216C08
Instrument: Chico
Sequence: C120202
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 02/21/12 4:06:45 PM

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0216C08W.D Vial: 1
Acq On : 16 Feb 12 13:12 Operator: RS, ARS
Sample : 120216A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 16:56 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	96	561092	25.00000 ppb	-0.03
54) Chlorobenzene-D5 (IS)	17.98	117	416576	25.00000 ppb	-0.03
70) 1,4-Dichlorobenzene-D (IS)	22.18	152	217152	25.00000 ppb	-0.03
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.38	111	338243	22.32586 ppb	-0.03
Spiked Amount 22.441			Recovery =	99.486%	
37) 1,2-DCA-D4(S)	12.18	65	234108	21.89620 ppb	-0.03
Spiked Amount 21.710			Recovery =	100.857%	
55) Toluene-D8(S)	15.45	98	1335073	21.46495 ppb	-0.02
Spiked Amount 24.025			Recovery =	89.346%	
63) 4-Bromofluorobenzene(S)	20.05	95	530281	25.52874 ppb	-0.03
Spiked Amount 25.909			Recovery =	98.532%	
Target Compounds					Qvalue
19) Methylene chloride	8.43	84	10598	0.73906 ppb J	87

less than ½ RL
ARS 2/16/12

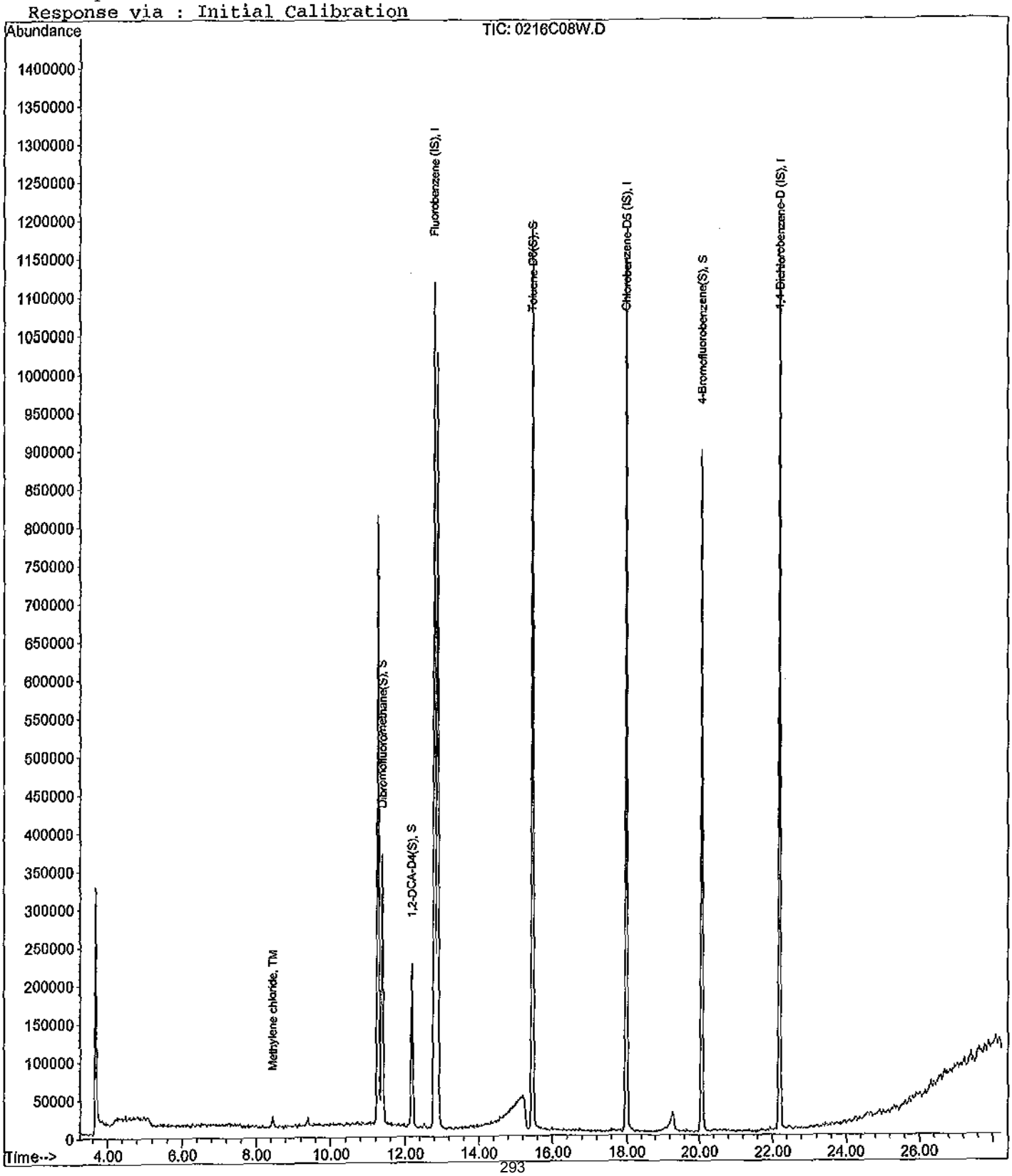
(#) = qualifier out of range (m) = manual integration
0216C08W.D CALLW.M Thu Feb 16 16:56:52 2012 Page 1

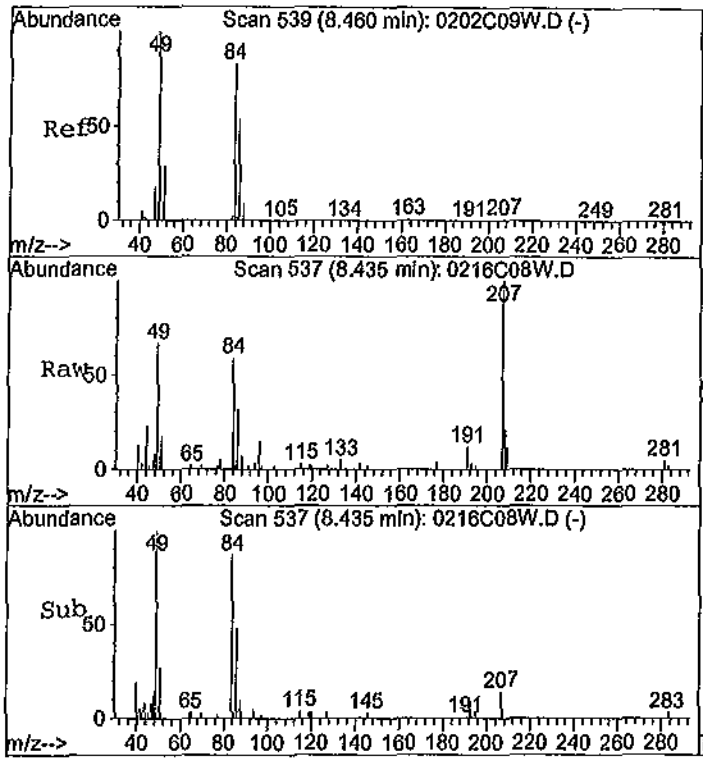
Quantitation Report

Data File : M:\CHICO\DATA\C120202\0216C08W.D Vial: 1
Acq On : 16 Feb 12 13:12 Operator: RS, ARS
Sample : 120216A BLK-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 16:56 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration

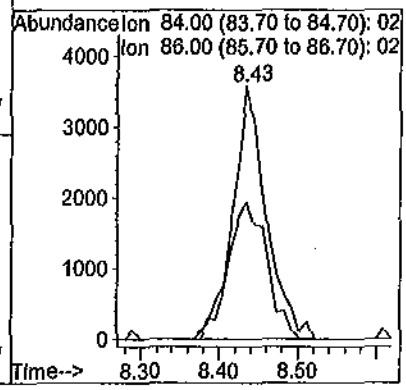




#19
Methylene chloride
Concen: 0.73906 ppb
RT: 8.43 min Scan# 537
Delta R.T. -0.03 min
Lab File: 0216C08W.D
Acq: 16 Feb 12 13:12

Tgt Ion: 84 Resp: 10598

Ion	Ratio	Lower	Upper
84	100		
86	54.4	45.3	84.1



Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120215W-54765 LCS - 164031**
Batch ID: #86RHB-120215AC

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	10.4	104	80-130
1,1,1-TRICHLOROETHANE	10.00	10.9	109	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.0	100	65-130
1,1,2-TRICHLOROETHANE	10.00	10.4	104	75-125
1,1-DICHLOROETHANE	10.00	10.8	108	70-135
1,1-DICHLOROETHENE	10.00	10.1	101	70-130
1,2,3-TRICHLOROPROPANE	10.00	9.51	95.1	75-125
1,2,4-TRICHLOROBENZENE	10.00	10.2	102	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.57	85.7	50-130
1,2-DIBROMOETHANE	10.00	9.77	97.7	70-130
1,2-DICHLOROBENZENE	10.00	9.62	96.2	70-120
1,2-DICHLOROETHANE	10.00	10.6	106	70-130
1,2-DICHLOROPROPANE	10.00	9.81	98.1	75-125
1,3-DICHLOROBENZENE	10.00	9.60	96.0	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	20.6	103	70-130
1,4-DICHLOROBENZENE	10.00	9.78	97.8	75-125
2-BUTANONE	10.00	10.0	100	30-150
4-METHYL-2-PENTANONE	10.00	9.36	93.6	60-135
ACETONE	10.00	12.4	124	40-140
BENZENE	10.00	10.2	102	80-120
BROMODICHLOROMETHANE	10.00	10.5	105	75-120
BROMOFORM	10.00	9.28	92.8	70-130
BROMOMETHANE	10.00	10.4	104	30-145
CARBON TETRACHLORIDE	10.00	10.8	108	65-140
CHLOROBENZENE	10.00	10.2	102	80-120
CHLORODIBROMOMETHANE	10.00	10.1	101	60-135

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	02/15/12
Analysis Date :	02/15/12
Instrument :	Chico
Run :	0215C04
Initials :	ARS

Printed: 02/21/12 4:08:46 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **120215W-54765 LCS - 164031**
Batch ID: #86RHB-120215AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROETHANE	10.00	11.4	114	60-135
CHLOROFORM	10.00	10.7	107	65-135
CHLOROMETHANE	10.00	9.97	99.7	40-125
CIS-1,2-DICHLOROETHENE	10.00	10.5	105	70-125
ETHYLBENZENE	10.00	9.98	99.8	75-125
GASOLINE	300	357	119	75-125
HEXACHLOROBUTADIENE	10.00	11.1	111	50-140
METHYL TERT-BUTYL ETHER	10.00	9.97	99.7	65-125
STYRENE	10.00	10.4	104	65-135
TETRACHLOROETHENE	10.00	10.4	104	45-150
TOLUENE	10.00	10.4	104	75-120
TRANS-1,2-DICHLOROETHENE	10.00	10.6	106	60-140
TRICHLOROETHENE	10.00	10.9	109	70-125
VINYL CHLORIDE	10.00	10.9	109	50-145
XYLENES (TOTAL)	30.0	30.2	101	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	21.7	20.5	94.4	70-120
SURROGATE: 4-BROMOFLUOROBENZE	25.9	25.2	97.3	75-120
SURROGATE: DIBROMOFLUOROMETH	22.4	22.2	98.9	85-115
SURROGATE: TOLUENE-D8 (S)	24.0	22.3	92.8	85-120

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	02/15/12
Analysis Date :	02/15/12
Instrument :	Chico
Run :	0215C04
Initials :	ARS

Printed: 02/21/12 4:08:46 PM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C04W.D Vial: 1
Acq On : 15 Feb 12 13:18 Operator: RS, ARS
Sample : 120215A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 15 13:46 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.82	96	625956	25.00000	ppb		0.00
54) Chlorobenzene-D5 (IS)	18.00	117	452480	25.00000	ppb		0.00
70) 1,4-Dichlorobenzene-D (IS)	22.20	152	239552	25.00000	ppb		0.00
System Monitoring Compounds							
32) Dibromofluoromethane(S)	11.40	111	375314	22.20570	ppb		0.00
Spiked Amount 22.441			Recovery = 98.951%				
37) 1,2-DCA-D4(S)	12.20	65	244384	20.48876	ppb		0.00
Spiked Amount 21.710			Recovery = 94.376%				
55) Toluene-D8(S)	15.47	98	1506881	22.30482	ppb		0.00
Spiked Amount 24.025			Recovery = 92.843%				
63) 4-Bromofluorobenzene(S)	20.07	95	568111	25.17975	ppb		0.00
Spiked Amount 25.909			Recovery = 97.185%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.08	85	236083	11.70676	ppb		98
3) Freon 114	4.33	85	158974	11.18218	ppb		93
4) Chloromethane	4.57	50	85878	9.96805	ppb		98
5) Vinyl chloride	4.83	62	67808	10.90361	ppb		96
6) Bromomethane	5.73	94	51416	10.43388	ppb		97
7) Chloroethane	5.92	64	44370	11.37980	ppb		98
8) Dichlorofluoromethane	6.01	67	447734	11.54557	ppb		96
9) Trichlorofluoromethane	6.52	103	52112	10.45227	ppb		91
10) Acetonitrile	7.64	41	81630	154.83079	ug/l		100
11) Acrolein	7.15	56	89934	111.08577	ppb		98
12) Acetone	7.28	43	15141	12.44219	ppb		97
13) Freon-113	7.45	101	187194	11.43705	ppb		96
14) 1,1-DCE	7.66	96	187526	10.14503	ppb		96
15) t-Butanol	7.76	59	8305	163.73166	ppb		96
16) Methyl Acetate	8.18	43	47729	9.58154	ppb		98
17) Iodomethane	8.16	142	336965	10.50186	ppb		97
18) Acrylonitrile	8.55	53	17902	10.70989	ppb		92
19) Methylene chloride	8.46	84	204501	12.78331	ppb		99
20) Carbon disulfide	8.54	76	208192	10.84530	ppb		99
21) Methyl t-butyl ether (MtBE	8.88	73	234986	9.96502	ppb		90
22) Trans-1,2-DCE	9.08	96	227214	10.59109	ppb		96
23) Diisopropyl Ether	9.73	45	534004	10.62941	ppb		96
24) 1,1-DCA	9.77	63	353853	10.77844	ppb		99
25) Vinyl Acetate	9.40	43	36760	11.99961	ppb		96
26) Ethyl tert Butyl Ether	10.43	59	364958	10.57927	ppb		94
27) MEK (2-Butanone)	10.42	43	13358	10.00597	ppb		91
28) Cis-1,2-DCE	10.80	96	228909	10.49361	ppb		99
29) 2,2-Dichloropropane	10.79	77	295720	10.96663	ppb		94
30) Chloroform	11.07	85	212373	10.67653	ppb		98
31) Bromochloromethane	11.29	128	69417	9.85965	ppb		90
33) 1,1,1-TCA	11.81	97	304624	10.86631	ppb		94
34) Cyclohexane	11.98	56	311823	10.85923	ppb		95
35) 1,1-Dichloropropene	12.08	75	261640	10.81425	ppb		97
36) 2,2,4-Trimethylpentane	12.16	57	520272	11.37967	ppb		98
38) Carbon Tetrachloride	12.28	117	256828	10.81215	ppb		98
39) Tert Amyl Methyl Ether	12.32	73	272524	9.61950	ppb		99
40) 1,2-DCA	12.35	62	141816	10.56746	ppb	#	90
41) Benzene	12.47	78	777165	10.19962	ppb		100
42) TCE	13.51	95	215353	10.89146	ppb		96

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C04W.D Vial: 1
Acq On : 15 Feb 12 13:18 Operator: RS, ARS
Sample : 120215A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 15 13:46 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue	
43)	2-Pentanone	13.18	43	432073	130.46838	ppb	98	
44)	1,2-Dichloropropane	13.74	63	166766	9.80970	ppb	96	
45)	Bromodichloromethane	14.09	83	186855	10.49366	ppb	95	
46)	Methyl Cyclohexane	13.79	83	267982	10.48287	ppb	99	
47)	Dibromomethane	14.14	93	72429	10.89322	ppb	94	
48)	2-Chloroethyl vinyl ether	14.55	63	39924	8.83313	ppb	97	
49)	1-Bromo-2-chloroethane	14.86	63	131882	10.60498	ppb	95	10.24603 ppb
50)	Cis-1,3-Dichloropropene	14.98	75	218885	10.24603	ppb	97	+ 10.36361 ppb
51)	Toluene	15.60	91	802630	10.38963	ppb	98	
52)	Trans-1,3-Dichloropropene	15.77	75	151115	10.36361	ppb	96	20.60964 ppb
53)	1,1,2-TCA	16.05	83	71617	10.44265	ppb	94	1,3-dichloropropene, total
56)	1,2-EDB	17.30	107	84167	9.76574	ppb	99	
57)	Tetrachloroethene	16.76	164	195879	10.39044	ppb	98	
58)	1-Chlorohexane	17.67	91	287325	10.22042	ppb	94	
59)	1,1,1,2-Tetrachloroethane	18.13	131	156468	10.37006	ppb	100	
60)	m&p-Xylene	18.32	106	709171	19.84526	ppb	100	
61)	o-Xylene	19.07	106	342356	10.32982	ppb	98	
62)	Styrene	19.09	104	506415	10.40318	ppb	97	
64)	2-Hexanone	16.09	43	31052	10.45245	ppb	94	
65)	1,3-Dichloropropane	16.46	76	151521	9.80048	ppb	99	
66)	Dibromochloromethane	16.94	129	110742	10.07523	ppb	91	
67)	Chlorobenzene	18.07	112	497878	10.20528	ppb	98	
68)	Ethylbenzene	18.18	91	904068	9.98194	ppb	100	
69)	Bromoform	19.61	173	54434	9.28305	ppb	93	
71)	MIBK (methyl isobutyl keto	14.65	43	47548	9.35835	ppb	93	
72)	Isopropylbenzene	19.70	105	889471	9.94818	ppb	100	
73)	1,1,2,2-Tetrachloroethane	19.86	83	76780	10.01755	ppb	94	
74)	1,2,3-Trichloropropane	20.11	110	7292	9.51355	ppb	100	
75)	t-1,4-Dichloro-2-Butene	20.18	53	17190	8.76480	ppb	82	
76)	Bromobenzene	20.44	156	198642	9.16251	ppb	92	
77)	n-Propylbenzene	20.40	91	1081593	9.91586	ppb	98	
78)	4-Ethyltoluene	20.61	105	611210	9.57170	ppb	100	
79)	2-Chlorotoluene	20.70	91	658734	9.40009	ppb	93	
80)	1,3,5-Trimethylbenzene	20.68	105	724423	10.13035	ppb	99	
81)	4-Chlorotoluene	20.78	91	580465	9.49633	ppb	99	
82)	Tert-Butylbenzene	21.32	119	759935	9.79525	ppb	95	
83)	1,2,4-Trimethylbenzene	21.38	105	712733	9.80862	ppb	98	
84)	Sec-Butylbenzene	21.72	105	989088	9.97700	ppb	99	
85)	p-Isopropyltoluene	21.95	119	795899	9.96997	ppb	98	
86)	Benzyl Chloride	22.39	91	128179	9.37982	ppb	98	
87)	1,3-DCB	22.09	146	397763	9.60231	ppb	96	
88)	1,4-DCB	22.26	146	376713	9.78314	ppb	98	
89)	Hexachloroethane	23.57	117	169554	10.26281	ppb	95	
90)	n-Butylbenzene	22.67	91	739830	10.50408	ppb	96	
91)	1,2-DCB	22.89	146	321175	9.62382	ppb	91	
92)	1,2-Dibromo-3-chloropropan	24.10	155	10913	8.57053	ppb	91	
93)	1,2,4-Trichlorobenzene	25.55	180	97776	10.23160	ppb	98	
94)	Hexachlorobutadiene	25.80	223	117714	11.07948	ppb	85	
95)	Naphthalene	25.90	128	285619	10.41639	ppb	98	
96)	1,2,3-Trichlorobenzene	26.26	180	79152	10.73032	ppb	96	

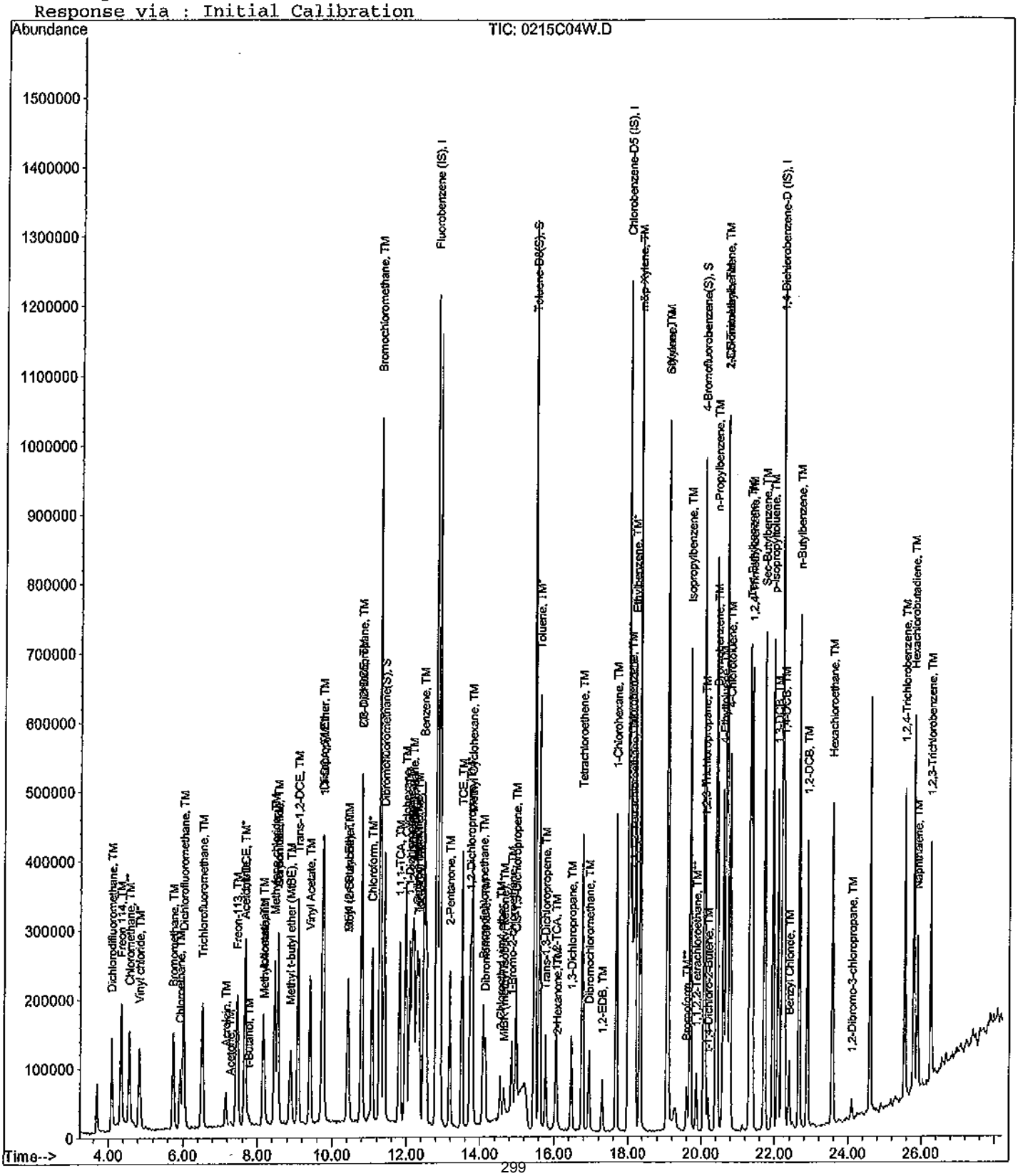
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C04W.D Vial: 1
Acq On : 15 Feb 12 13:18 Operator: RS, ARS
Sample : 120215A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 15 13:46 2012 Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Feb 16 10:23:35 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C120202\0215C07W.D Vial: 1
Acq On : 15 Feb 12 15:08 Operator: RS, ARS
Sample : GAS LCS@300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 8:46 2012 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.81	TIC	1202808	25.00000	ppb	0.02
3) Chlorobenzene-D5 (IS)	18.01	TIC	1237863	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.21	TIC	1249525	25.00000	ppb	0.02

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline	15.61	TIC	57362532m	356.64331	ppb	100

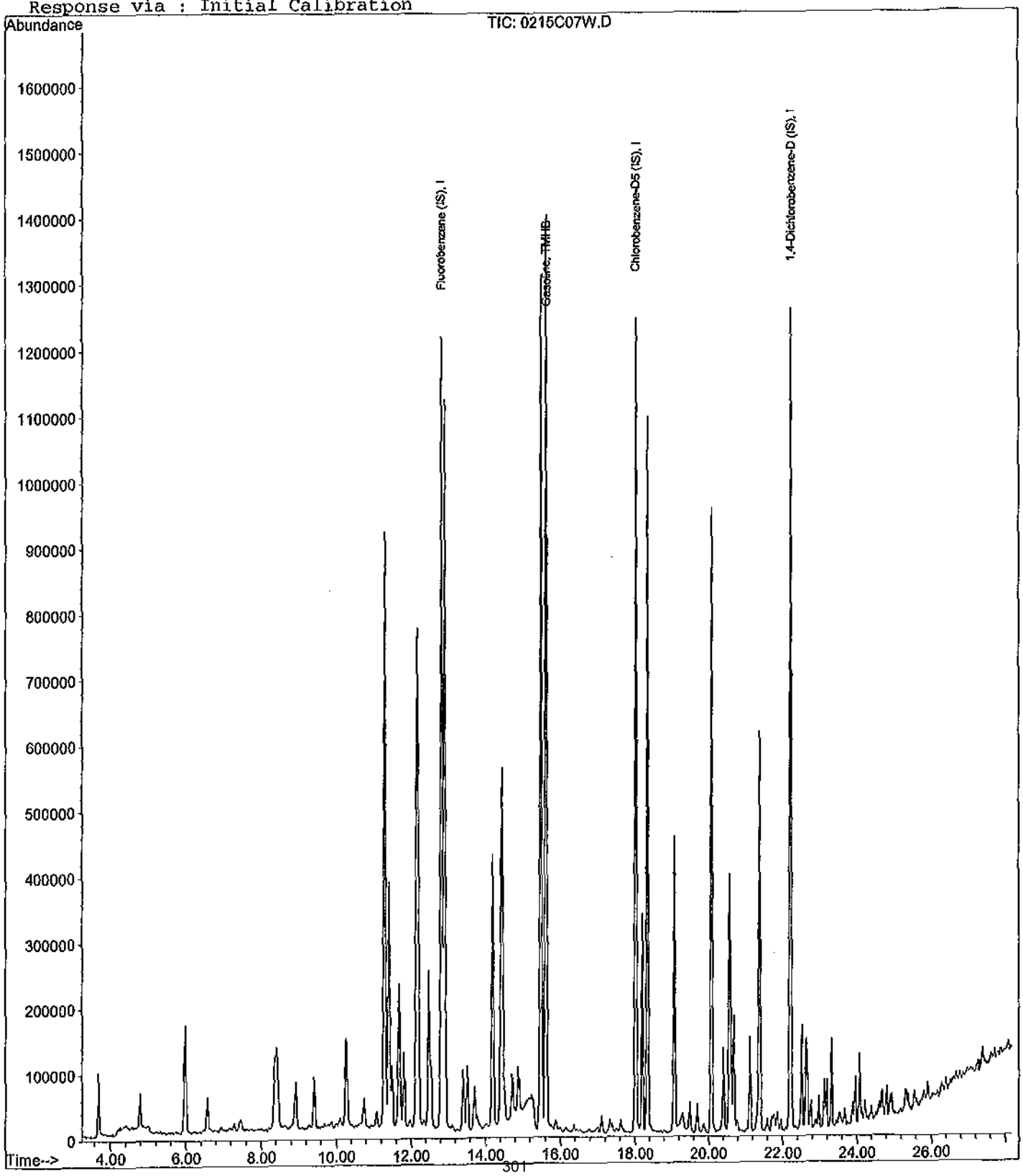
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C07W.D Vial: 1
Acq On : 15 Feb 12 15:08 Operator: RS, ARS
Sample : GAS LCS@300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 8:46 2012 Quant Results File: CGAS.RES

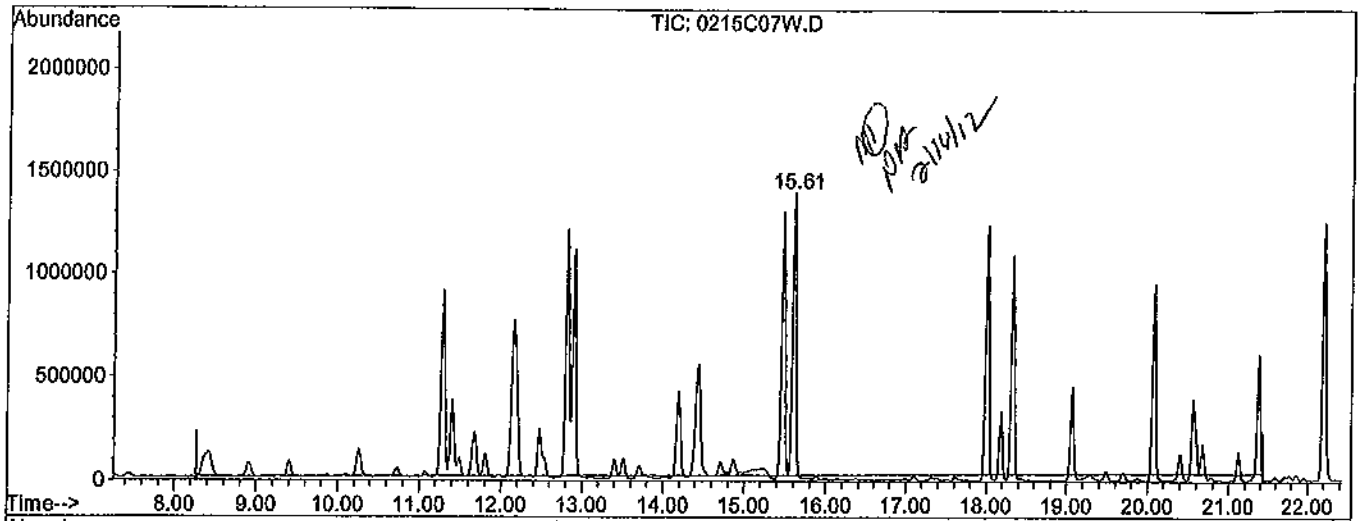
Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Initial Calibration

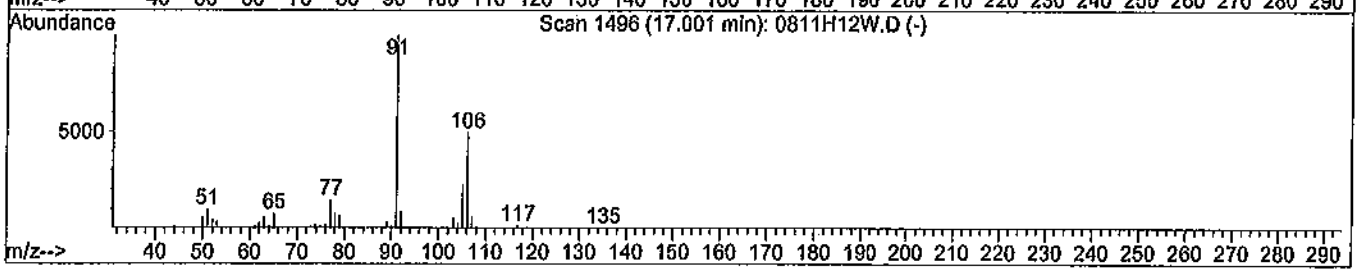


Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C07W.D Vial: 1
Acq On : 15 Feb 12 15:08 Operator: RS, ARS
Sample : GAS LCS@300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 16 8:45 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration





TIC: 0215C07W.D

(2) Gasoline (TMHB)

15.58min 274.1734ppb m

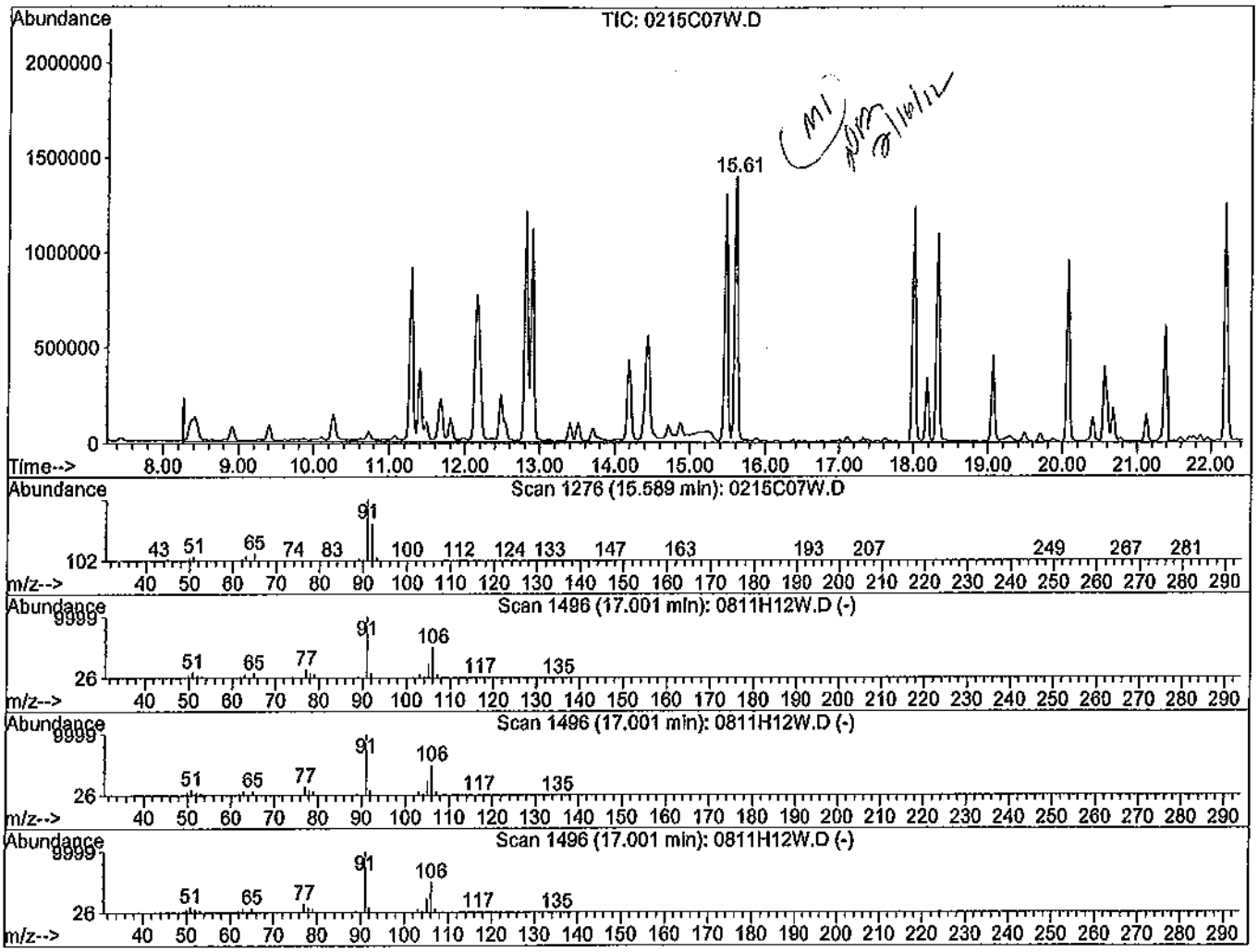
response 48741835

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.24#
0.00	0.00	0.72#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0215C07W.D Vial: 1
Acq On : 15 Feb 12 15:08 Operator: RS, ARS
Sample : GAS LCS@300ug/L Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00
Quant Time: Feb 16 8:46 2012 Quant Results File: temp.res

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Feb 07 09:36:43 2012
Response via : Single Level Calibration



TIC: 0215C07W.D

(2) Gasoline (TMHB)

15.61min 356.6433ppb m

response 57362532

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.20#
0.00	0.00	0.61#
0.00	0.00	0.00

Laboratory Control Spike Recovery
EPA 8260B VOCS + GAS WATER

APPL ID: **120216W-54765 LCS - 164032**
Batch ID: #86RHB-120216AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
METHYLENE CHLORIDE	10.00	11.6	116	55-140
SURROGATE: 1,2-DICHLOROETHANE-D	21.7	20.5	94.4	70-120
SURROGATE: 4-BROMOFLUOROBENZE	25.9	24.6	94.9	75-120
SURROGATE: DIBROMOFLUOROMETH	22.4	22.0	98.0	85-115
SURROGATE: TOLUENE-D8 (S)	24.0	21.6	89.9	85-120

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	02/16/12
Analysis Date :	02/16/12
Instrument :	Chico
Run :	0216C02
Initials :	ARS

Printed: 02/21/12 4:06:12 PM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0216C02W.D Vial: 1
Acq On : 16 Feb 12 9:29 Operator: RS, ARS
Sample : 120216A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 9:56 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.79	96	596903	25.00000 ppb	-0.02
54) Chlorobenzene-D5 (IS)	17.97	117	453632	25.00000 ppb	-0.03
70) 1,4-Dichlorobenzene-D (IS)	22.17	152	232704	25.00000 ppb	-0.03
System Monitoring Compounds					
32) Dibromofluoromethane(S)	11.37	111	354840	22.01620 ppb	-0.03
Spiked Amount 22.441			Recovery =	98.105%	
37) 1,2-DCA-D4(S)	12.17	65	233071	20.49138 ppb	-0.03
Spiked Amount 21.710			Recovery =	94.385%	
55) Toluene-D8(S)	15.44	98	1459615	21.55032 ppb	-0.03
Spiked Amount 24.025			Recovery =	89.700%	
63) 4-Bromofluorobenzene(S)	20.04	95	555698	24.56703 ppb	-0.03
Spiked Amount 25.909			Recovery =	94.819%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.06	85	217715	11.32141 ppb	95
3) Freon 114	4.31	85	156134	11.51697 ppb	92
4) Chloromethane	4.55	50	75566	9.19803 ppb	99
5) Vinyl chloride	4.81	62	65392	11.02691 ppb	97
6) Bromomethane	5.70	94	48128	10.24202 ppb	100
7) Chloroethane	5.89	64	41514	11.15151 ppb	95
8) Dichlorofluoromethane	5.98	67	413284	11.17594 ppb	99
9) Trichlorofluoromethane	6.49	103	52592	11.06197 ppb	100
10) Acetonitrile	7.61	41	85334	169.73432 ug/l	100
11) Acrolein	7.12	56	107352	139.05439 ppb	100
12) Acetone	7.24	43	16216	14.24548 ppb	94
13) Freon-113	7.43	101	175456	11.24166 ppb	98
14) 1,1-DCE	7.63	96	179021	10.15631 ppb	95
15) t-Butanol	7.73	59	8069	166.82180 ppb	99
16) Methyl Acetate	8.15	43	48383	10.29436 ppb	98
17) Iodomethane	8.13	142	314994	10.28542 ppb	96
18) Acrylonitrile	8.52	53	18856	11.82968 ppb	96
19) Methylene chloride	8.44	84	177110	11.60996 ppb	95
20) Carbon disulfide	8.51	76	195072	10.65645 ppb	96
21) Methyl t-butyl ether (MtBE	8.85	73	228569	10.16468 ppb	96
22) Trans-1,2-DCE	9.05	96	212189	10.37214 ppb	96
23) Diisopropyl Ether	9.70	45	514662	10.74303 ppb	96
24) 1,1-DCA	9.74	63	330957	10.57170 ppb	99
25) Vinyl Acetate	9.38	43	36512	12.51386 ppb	98
26) Ethyl tert Butyl Ether	10.40	59	353086	10.73331 ppb	93
27) MEK (2-Butanone)	10.39	43	15743	12.36646 ppb #	85
28) Cis-1,2-DCE	10.77	96	206910	9.84037 ppb	98
29) 2,2-Dichloropropane	10.76	77	286822	11.15437 ppb	94
30) Chloroform	11.04	85	200268	10.55802 ppb	100
31) Bromochloromethane	11.26	128	67214	10.01141 ppb	96
33) 1,1,1-TCA	11.78	97	289819	10.84139 ppb	92
34) Cyclohexane	11.95	56	297578	10.86755 ppb	98
35) 1,1-Dichloropropene	12.05	75	250165	10.84323 ppb	98
36) 2,2,4-Trimethylpentane	12.12	57	506911	11.62709 ppb	98
38) Carbon Tetrachloride	12.25	117	249282	11.00527 ppb	96
39) Tert Amyl Methyl Ether	12.30	73	266716	9.87272 ppb	99
40) 1,2-DCA	12.32	62	132642	10.36493 ppb	97
41) Benzene	12.45	78	724586	9.97242 ppb	99
42) TCE	13.49	95	202714	10.75125 ppb	98

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C120202\0216C02W.D Vial: 1
Acq On : 16 Feb 12 9:29 Operator: RS, ARS
Sample : 120216A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 9:56 2012 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration
DataAcq Meth : V8260

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
43)	2-Pentanone	13.15	43	429876	136.12296	ppb		97
44)	1,2-Dichloropropane	13.71	63	160720	9.91422	ppb		98
45)	Bromodichloromethane	14.06	83	177110	10.43051	ppb		99
46)	Methyl Cyclohexane	13.76	83	261293	10.71870	ppb		98
47)	Dibromomethane	14.11	93	67048	10.57473	ppb		88
48)	2-Chloroethyl vinyl ether	14.52	63	36812	8.54103	ppb		96
49)	1-Bromo-2-chloroethane	14.82	63	125174	10.55549	ppb		99
50)	Cis-1,3-Dichloropropene	14.95	75	215220	10.56483	ppb		98
51)	Toluene	15.57	91	785985	10.66937	ppb		97
52)	Trans-1,3-Dichloropropene	15.75	75	145617	10.47263	ppb		92
53)	1,1,2-TCA	16.02	83	69094	10.56513	ppb		98
56)	1,2-EDB	17.27	107	83123	9.62011	ppb	#	100
57)	Tetrachloroethene	16.74	164	191821	10.14934	ppb		97
58)	1-Chlorohexane	17.64	91	274020	9.72239	ppb		98
59)	1,1,1,2-Tetrachloroethane	18.10	131	150234	9.93161	ppb		96
60)	m&p-Xylene	18.29	106	674937	18.83930	ppb		99
61)	o-Xylene	19.04	106	331968	9.99095	ppb		99
62)	Styrene	19.06	104	485829	9.95494	ppb		99
64)	2-Hexanone	16.05	43	29034	9.74835	ppb		99
65)	1,3-Dichloropropane	16.44	76	151124	9.74997	ppb		98
66)	Dibromochloromethane	16.91	129	108286	9.82676	ppb		88
67)	Chlorobenzene	18.04	112	480779	9.82977	ppb		96
68)	Ethylbenzene	18.16	91	879648	9.68765	ppb		99
69)	Bromoform	19.58	173	52316	8.89919	ppb		93
71)	MIBK (methyl isobutyl keto	14.62	43	50638	10.23678	ppb		93
72)	Isopropylbenzene	19.67	105	861915	9.92367	ppb		98
73)	1,1,2,2-Tetrachloroethane	19.83	83	76052	10.21457	ppb		90
74)	1,2,3-Trichloropropane	20.08	110	7932	10.64785	ppb		87
75)	t-1,4-Dichloro-2-Butene	20.16	53	17667	9.27309	ppb		89
76)	Bromobenzene	20.41	156	186120	8.83756	ppb		96
77)	n-Propylbenzene	20.37	91	1045727	9.86918	ppb		97
78)	4-Ethyltoluene	20.58	105	615516	9.92279	ppb		99
79)	2-Chlorotoluene	20.67	91	642889	9.44396	ppb		95
80)	1,3,5-Trimethylbenzene	20.65	105	682572	9.82600	ppb		99
81)	4-Chlorotoluene	20.75	91	562700	9.47660	ppb		95
82)	Tert-Butylbenzene	21.29	119	725891	9.63178	ppb		98
83)	1,2,4-Trimethylbenzene	21.35	105	683681	9.68569	ppb		97
84)	Sec-Butylbenzene	21.69	105	945567	9.81869	ppb		99
85)	p-Isopropyltoluene	21.92	119	770888	9.94084	ppb		99
86)	Benzyl Chloride	22.37	91	141720	10.67591	ppb		99
87)	1,3-DCB	22.07	146	385632	9.58342	ppb		99
88)	1,4-DCB	22.23	146	353411	9.44809	ppb		97
89)	Hexachloroethane	23.54	117	166756	10.38264	ppb		97
90)	n-Butylbenzene	22.64	91	690431	10.09119	ppb		94
91)	1,2-DCB	22.86	146	305149	9.41269	ppb		93
92)	1,2-Dibromo-3-chloropropan	24.09	155	11567	9.35148	ppb		93
93)	1,2,4-Trichlorobenzene	25.53	180	94048	10.13111	ppb		93
94)	Hexachlorobutadiene	25.78	223	110720	10.72331	ppb		94
95)	Naphthalene	25.88	128	268552	10.08218	ppb		100
96)	1,2,3-Trichlorobenzene	26.24	180	72355	10.09754	ppb		96

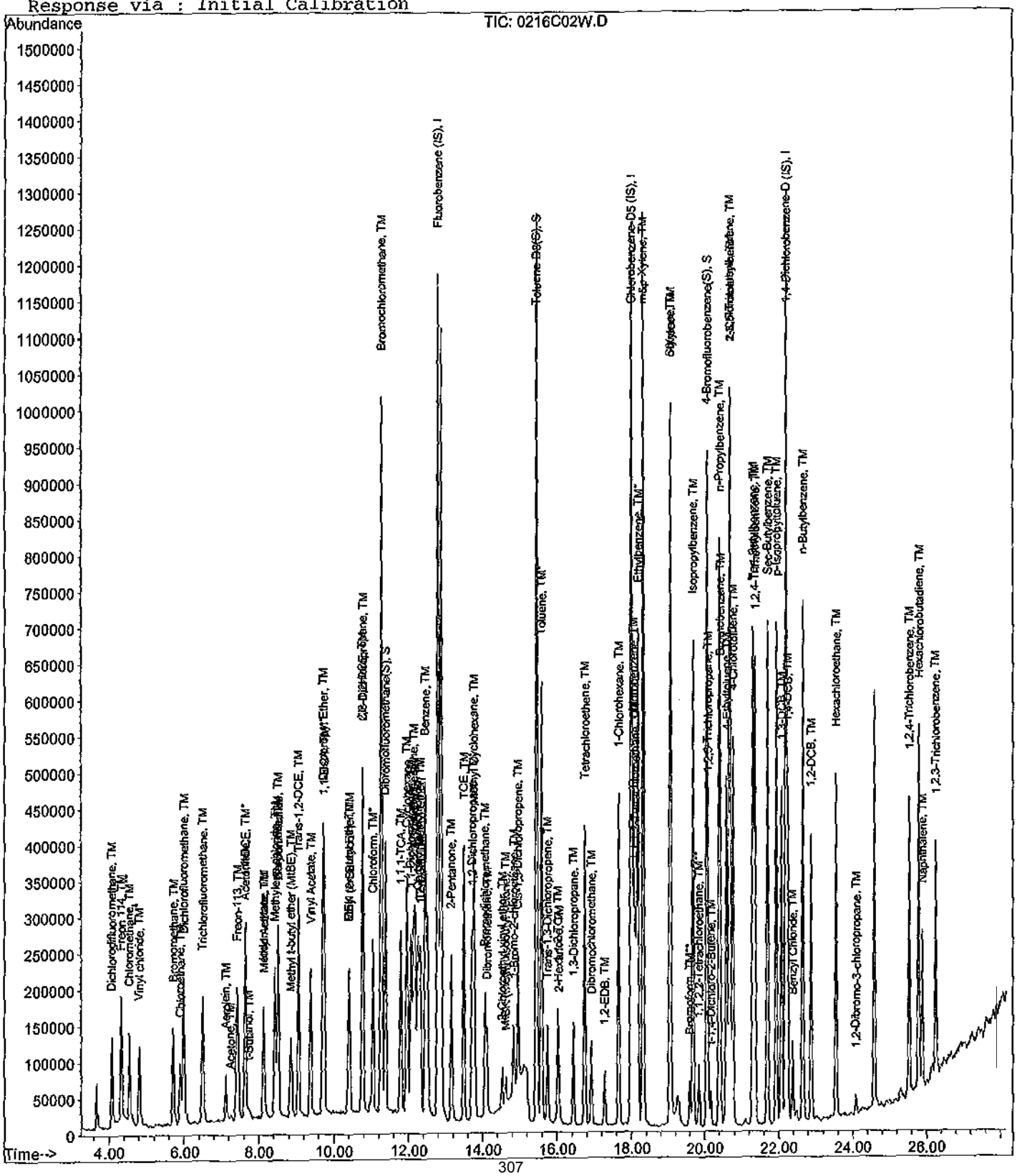
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C120202\0216C02W.D Vial: 1
Acq On : 16 Feb 12 9:29 Operator: RS, ARS
Sample : 120216A LCS-1WC Inst : Chico
Misc : Water 10mLw/ IS&S:01-30C&01-20 Multiplr: 1.00

Quant Time: Feb 16 9:56 2012 Quant Results File: CALLW.RES

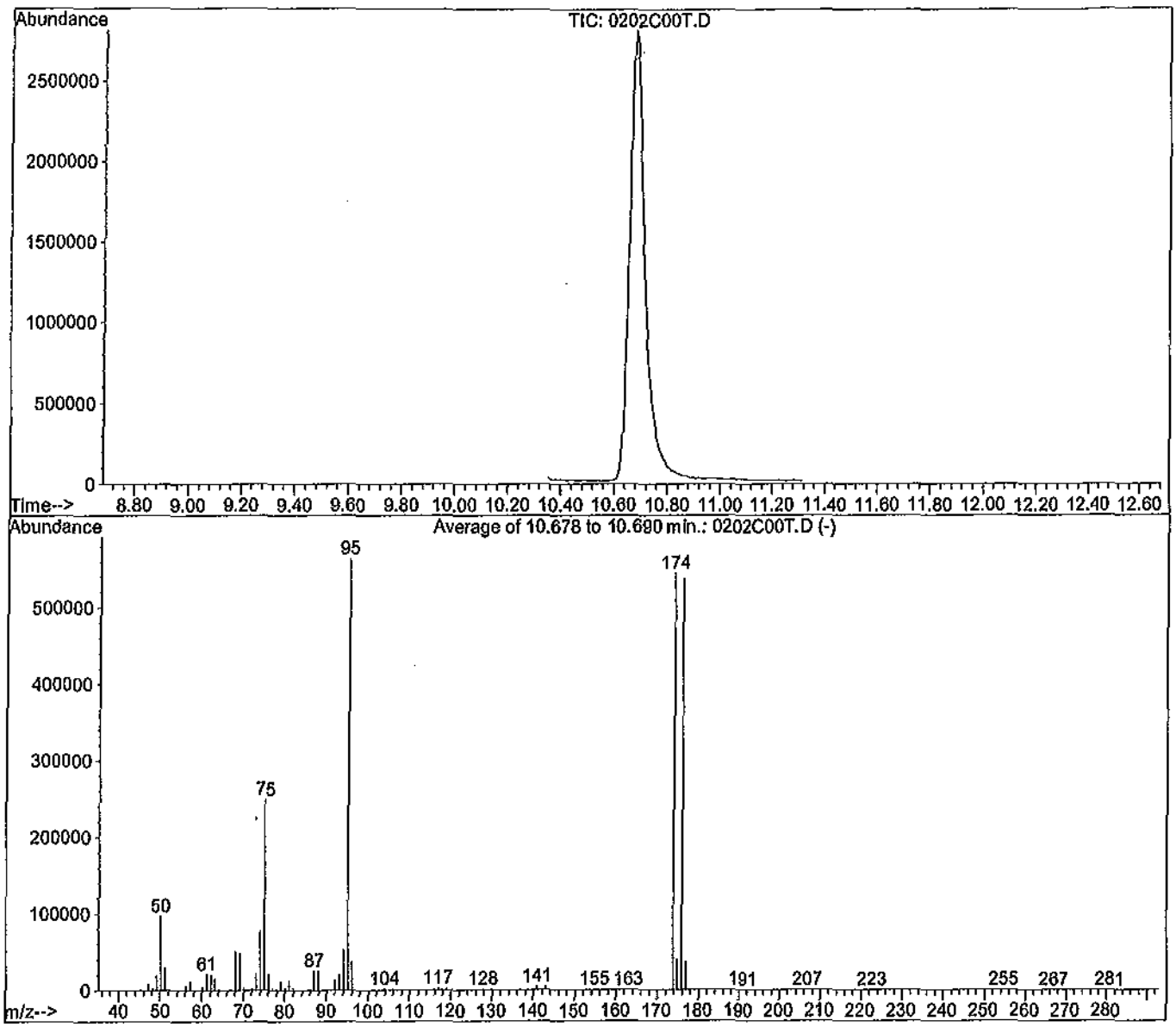
Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Feb 03 09:41:37 2012
Response via : Initial Calibration



BFB

Data File : M:\CHICO\DATA\C120202\0202C00T.D Vial: 1
Acq On : 2 Feb 12 14:16 Operator: RS, ARS
Sample : 25ug/mL BFB Std. 01-12-12 Inst : Chico
Misc : 2uL Multiplr: 1.00

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260



Spectrum Information: Average of 10.678 to 10.690 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	97279	PASS
75	95	30	60	44.3	249567	PASS
95	95	100	100	100.0	563968	PASS
96	95	5	9	6.5	36831	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	96.6	544768	PASS
175	174	5	9	7.5	40707	PASS
176	174	95	101	98.7	537749	PASS
177	176	5	9	6.8	36592	PASS

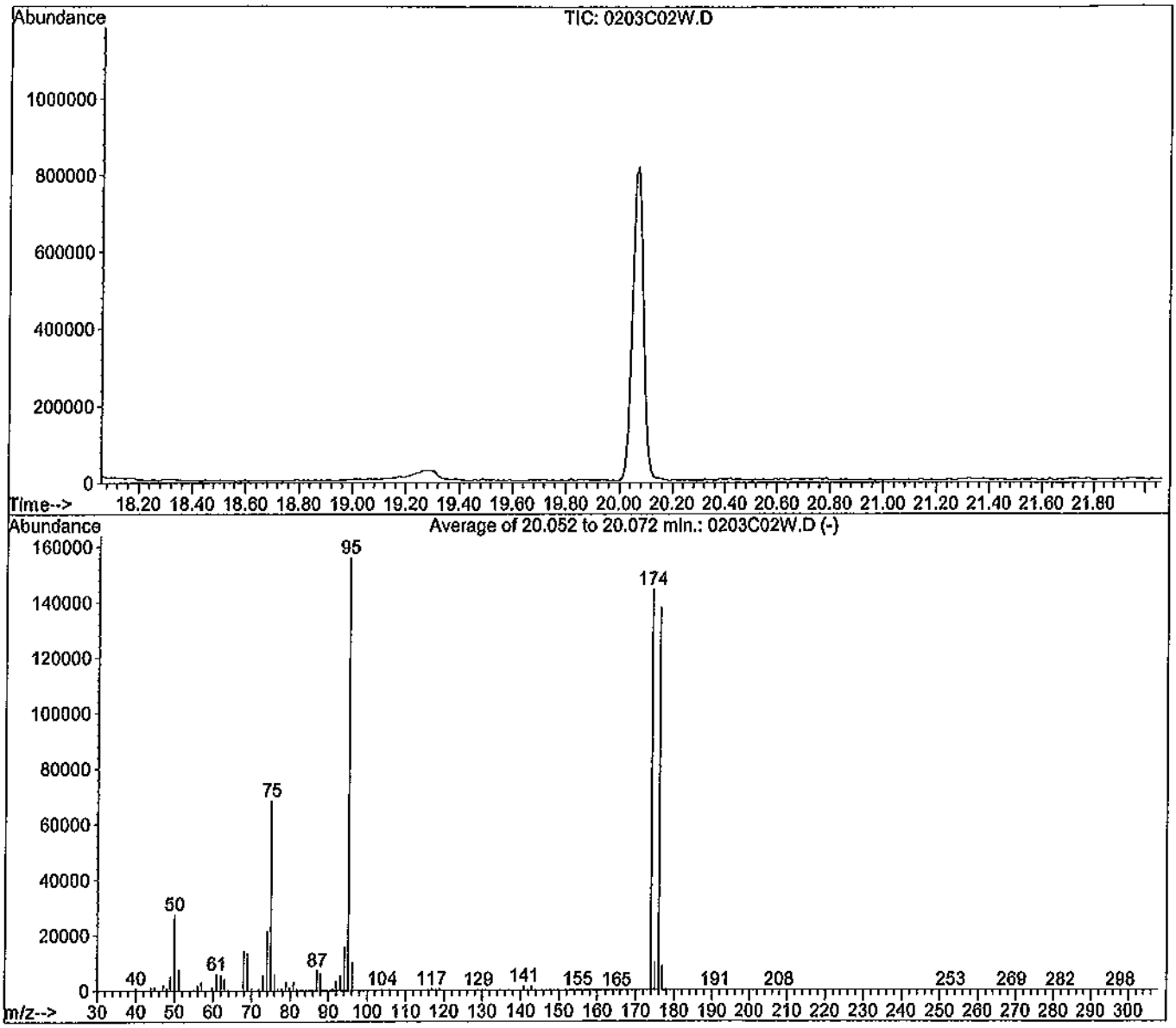
0202C00T.D CALLW.M Fri Feb 03 09:53:22 2012

BFB

Data File : M:\CHICO\DATA\C120202\0203C02W.D
Acq On : 3 Feb 12 10:44
Sample : 25ug/mL BFB Std. 01-12-12
Misc : 2uL

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260



Spectrum Information: Average of 20.052 to 20.072 min.

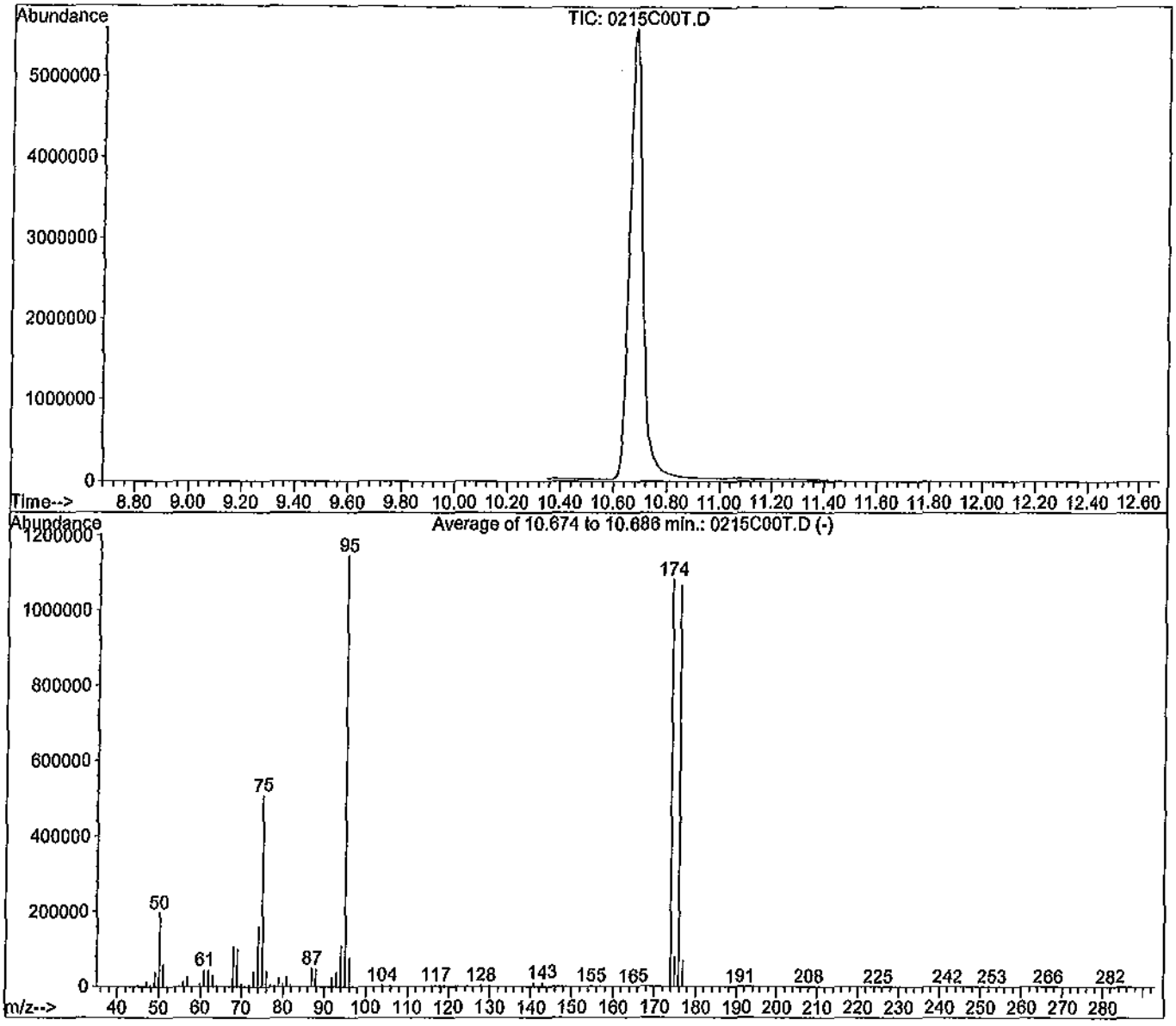
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	27475	PASS
75	95	30	60	43.9	68610	PASS
95	95	100	100	100.0	156144	PASS
96	95	5	9	6.6	10330	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.7	144683	PASS
175	174	5	9	7.1	10236	PASS
176	174	95	101	95.4	138067	PASS
177	176	5	9	6.6	9114	PASS

0203C02W.D CALLW.M Thu Feb 16 11:49:59 2012

Data File : M:\CHICO\DATA\C120202\0215C00T.D
Acq On : 15 Feb 12 11:07
Sample : 25ug/mL BFB Std. 02-13-12
Misc : 2uL

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260



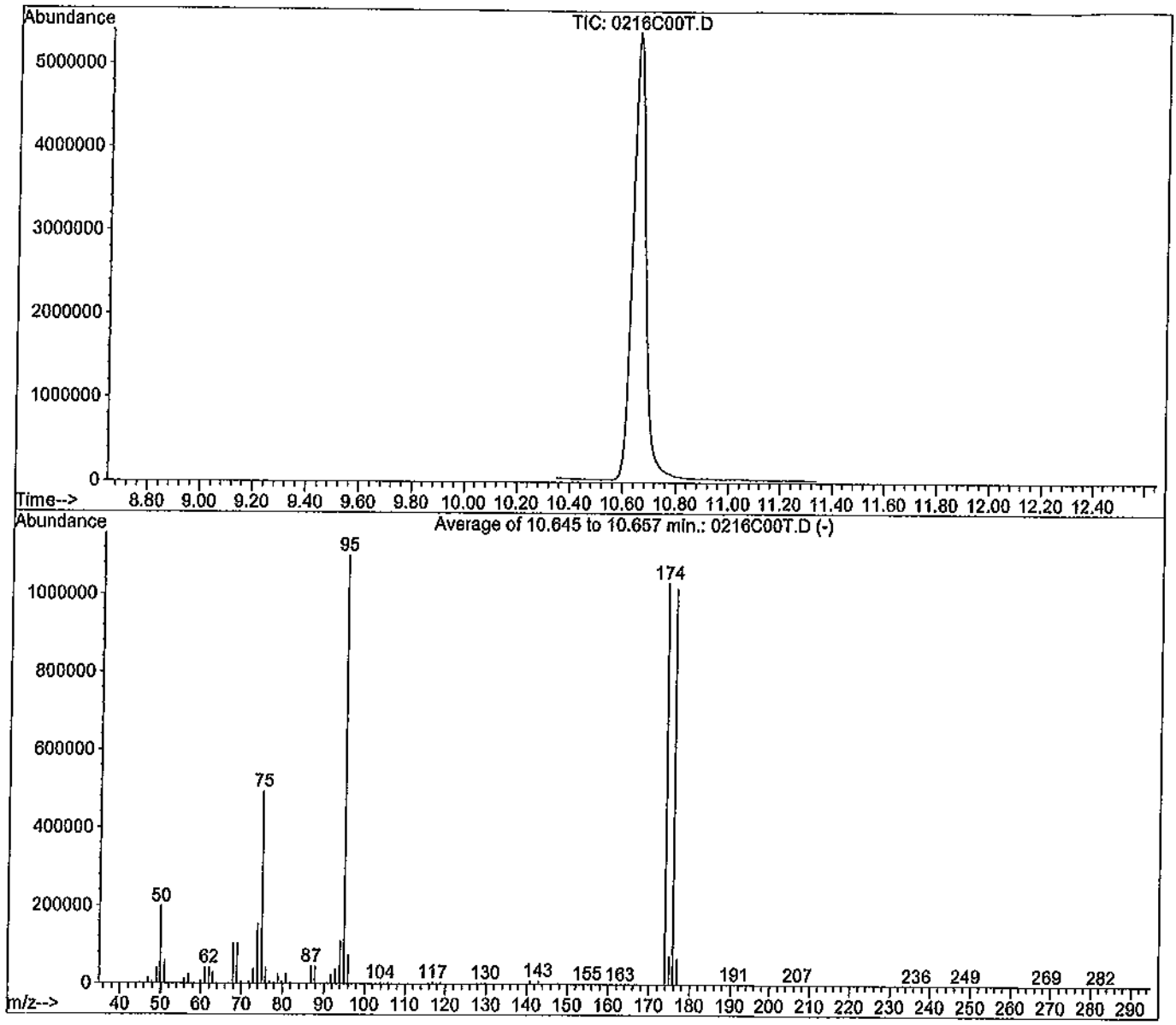
Spectrum Information: Average of 10.674 to 10.686 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	197652	PASS
75	95	30	60	44.3	507994	PASS
95	95	100	100	100.0	1146027	PASS
96	95	5	9	6.7	76958	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	94.5	1082709	PASS
175	174	5	9	7.3	78832	PASS
176	174	95	101	98.5	1066752	PASS
177	176	5	9	6.7	71137	PASS

Data File : M:\CHICO\DATA\C120202\0216C00T.D
Acq On : 16 Feb 12 8:23
Sample : 25ug/mL BFB Std. 02-13-12
Misc : 2uL

Vial: 1
Operator: RS, ARS
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C120202\CALLW.M (RTE Integrator)
Title : METHOD 8260

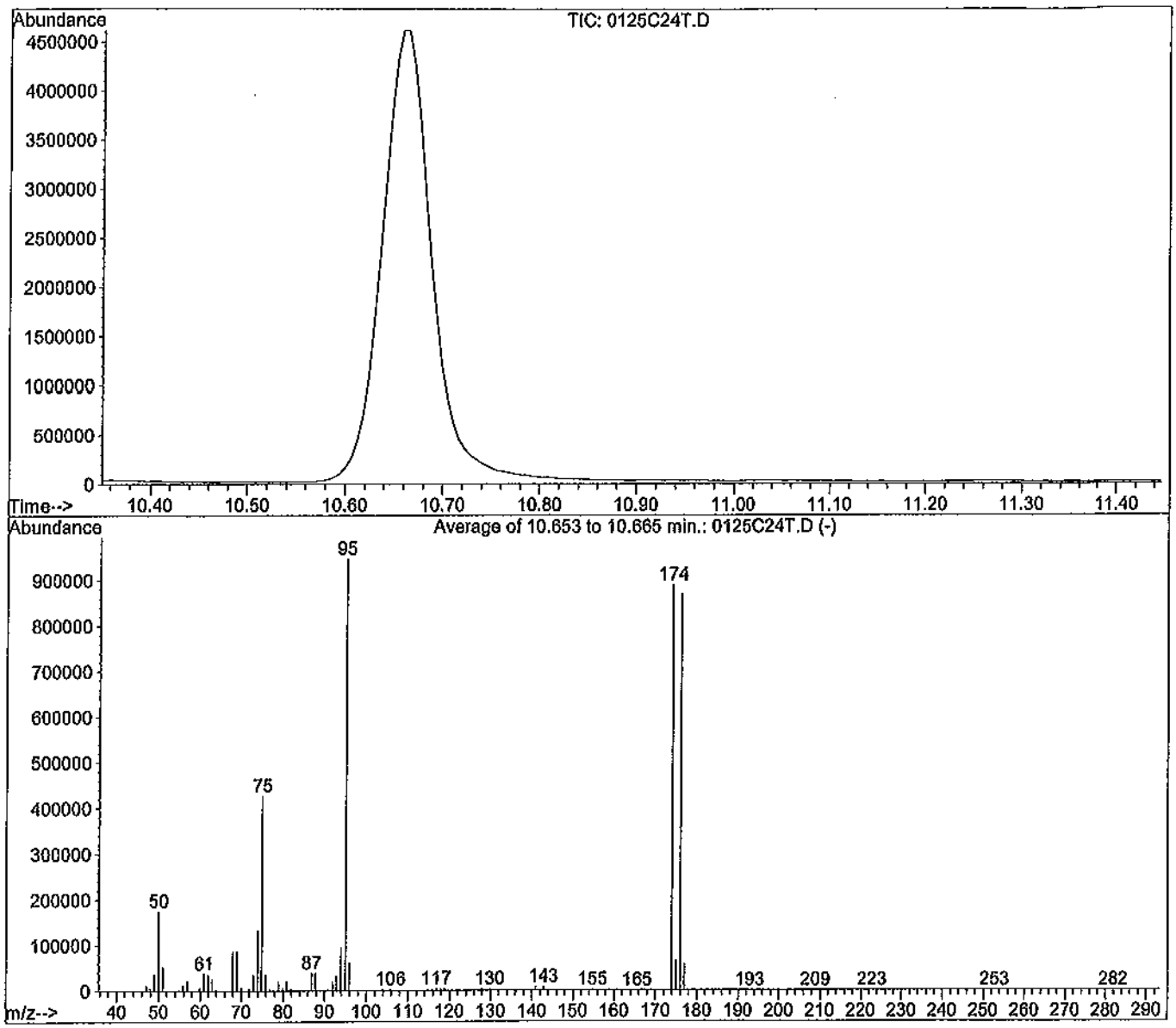


Spectrum Information: Average of 10.645 to 10.657 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	199166	PASS
75	95	30	60	44.9	494159	PASS
95	95	100	100	100.0	1100755	PASS
96	95	5	9	6.7	74233	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.8	1032491	PASS
175	174	5	9	7.2	74739	PASS
176	174	95	101	98.5	1017370	PASS
177	176	5	9	6.7	68133	PASS

Data File : M:\CHICO\DATA\C120125\0125C24T.D Vial: 1
Acq On : 26 Jan 12 16:30 Operator: RS, ARS
Sample : 25ug/mL BFB Std. 01-12-12 Inst : Chico
Misc : 2uL Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B



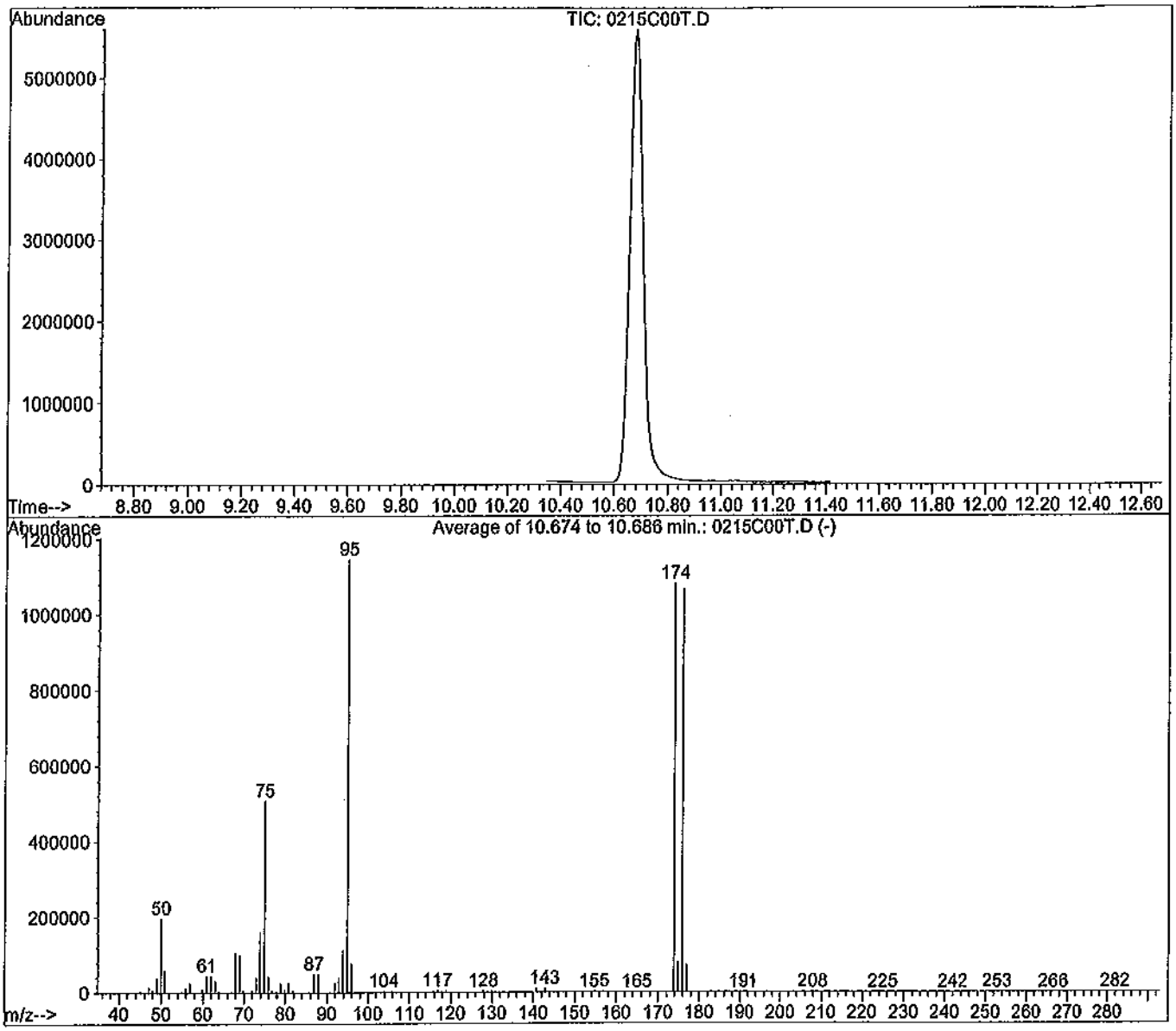
Spectrum Information: Average of 10.653 to 10.665 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	175569	PASS
75	95	30	60	45.1	426726	PASS
95	95	100	100	100.0	947029	PASS
96	95	5	9	6.5	61164	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.9	889685	PASS
175	174	5	9	7.3	64552	PASS
176	174	95	101	97.7	869568	PASS
177	176	5	9	6.5	56475	PASS

BFB

Data File : M:\CHICO\DATA\C120202\0215C00T.D Vial: 1
Acq On : 15 Feb 12 11:07 Operator: RS, ARS
Sample : 25ug/mL BFB Std. 02-13-12 Inst : Chico
Misc : 2uL Multiplr: 1.00

Method : M:\CHICO\DATA\C120125\CGAS.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Average of 10.674 to 10.686 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	197652	PASS
75	95	30	60	44.3	507994	PASS
95	95	100	100	100.0	1146027	PASS
96	95	5	9	6.7	76958	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	94.5	1082709	PASS
175	174	5	9	7.3	78832	PASS
176	174	95	101	98.5	1066752	PASS
177	176	5	9	6.7	71137	PASS

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

12/14/11 RS. A-

Method 8260 Internal Standard Solution, 2,000 ug/L, 1 ml
120302-03
Lot # 166255 Storage ≤-10 Degrees C Expiry 11/18/12
Solv: P/T Methanol
Method 8260 Internal Standard
Lot #: 166255 - 29277
Rec: 8/5/11 MFR exp. 11/18/12

RS.

12/14/11 RS.

12/14/11 RS. B-

Fluorobenzene Solution, 2,000 mg/L, 1 ml
020132-02
Lot # 169170 Storage ≤6 Degrees C Expiry 2/13/14
Solv: P/T Methanol
Fluorobenzene
Lot #: 169170 - 29287
Rec: 8/5/11 MFR exp. 02/13/14

RS.

12/15/11 RS

CHICO							
12-14-11C							
250ug/ml 8260 Internal Standard - Chico			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120302-03	Internal Standard Mix	2000	166255-29277	12-14-11A	03/23/12	500
02SI	020132-02	Fluorobenzene Standard	2000	169170-292987	12-14-11C	03/23/12	500
J&T Baker		Purge & Trap MeOH		K07E34-00547	09/12/11	11/14/12	3000

12/14/11 RS.

12/15/11 RS

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

	Expiration Date:			12/15/11							
		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 #1	60µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	12-12-11Z	12-12-11AD	12-12-11V	12-12-11X	12-12-11AC	12-12-11AA	12-12-11W	12-12-11Y	12-12-11AB
Code	µg/L	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11
12-14-11D	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
12-14-11E	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
12-14-11F	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
12-14-11G	5	n/a	n/a	5	5	10	n/a	5	5	n/a
12-14-11H	10	n/a	n/a	10	10	25	n/a	10	20	n/a
12-14-11I	40	n/a	n/a	40	40	80	n/a	40	40	n/a
12-14-11J	100	n/a	n/a	100	100	100	n/a	100	100	n/a
12-14-11K	200	n/a	n/a	200	200	125	n/a	200	200	n/a

12/14/11 RS

250µg/mL TAPD	Final Vol
12-12-11AE	w/P&T H2O
Exp:12-19-11	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

12/15/11 RS

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

	Expiration Date:			12/15/11						
		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 #1	60µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	12-12-11Z	12-12-11AD	12-12-11V	12-12-11X	12-12-11AC	12-12-11AA	12-12-11W	12-12-11Y	12-12-11AB
Code	µg/L	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11	Exp:12-19-11
12-14-11L	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
12-14-11M	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
12-14-11N	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
12-14-11O	5	n/a	n/a	5	5	10	n/a	5	5	n/a
12-14-11P	10	n/a	n/a	10	10	25	n/a	10	20	n/a
12-14-11Q	40	n/a	n/a	40	40	80	n/a	40	40	n/a
12-14-11R	100	n/a	n/a	100	100	100	n/a	100	100	n/a
12-14-11S	200	n/a	n/a	200	200	125	n/a	200	200	n/a

12/14/11 RS.

250µg/mL TAPD	Final Vol
12-12-11AE	w/P&T H2O
Exp:12-19-11	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

12/15/11 RS.

Exp. Date	uL
02/07/12	100
06/08/12	3900

12/27/11 RS

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

Expiration Date: 12/28/11

	Conc.	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 #1	5µg/mL Vol Std #2	5µg/mL Vol Std #12
Date		12-27-11M	12-27-11Q	12-27-11I	12-27-11K	12-27-11P	12-27-11N	12-27-11J	12-27-11L	12-27-11O
Code	µg/L	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11
12-27-11AI	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
12-27-11AJ	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
12-27-11AK	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
12-27-11AL	5	n/a	n/a	5	5	10	n/a	5	5	n/a
12-27-11AM	10	n/a	n/a	10	10	25	n/a	10	20	n/a
12-27-11AN	40	n/a	n/a	40	40	80	n/a	40	40	n/a
12-27-11AO	100	n/a	n/a	100	100	100	n/a	100	100	n/a
12-27-11AP	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPD 12-27-11R Exp:01-03-11	Final Vol w/P&T H2O mL
3	50
6	50
10	50
20	50
25	50
35	50
40	50
45	50

Exp. Date	uL
2/07/12	500
1/31/11	100
6/08/12	3400

12/27/11 RS

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

Expiration Date: 12/28/11

	Conc.	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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date		12-27-11M	12-27-11Q	12-27-11I	12-27-11K	12-27-11P	12-27-11N	12-27-11J	12-27-11L	12-27-11O
Code	µg/L	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11
12-27-11AQ	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
12-27-11AR	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
12-27-11AS	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
12-27-11AT	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
12-27-11AU	60	n/a	n/a	6	6	5	n/a	6	n/a	5
12-27-11AV	100	n/a	n/a	10	10	10	n/a	10	n/a	10
12-27-11AW	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA 12-27-11R Exp:01-03-11	Final Vol w/P&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

12/27/11 RS

W01

Y2

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

Expiration Date: 12/28/11

	Conc.	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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date		12-27-11M	12-27-11Q	12-27-11I	12-27-11K	12-27-11P	12-27-11N	12-27-11J	12-27-11L	12-27-11O
Code	µg/L	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11
12-27-11AX	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
12-27-11AY	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
12-27-11AZ	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
12-27-11BA	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
12-27-11BB	50	n/a	n/a	5	5	5	n/a	5	n/a	5
12-27-11BC	100	n/a	n/a	10	10	10	n/a	10	n/a	10
12-27-11BD	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA 12-27-11R Exp:01-03-11	Final Vol w/P&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

Exp. Date	uL
02/10/12	500
10/14/12	3500

12/28/11 RS

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

Expiration Date: 12/28/11

	Conc.	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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date		12-27-11M	12-27-11Q	12-27-11I	12-27-11K	12-27-11P	12-27-11N	12-27-11J	12-27-11L	12-27-11O
Code	µg/L	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11	Exp:01-03-11
12-28-11A	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
12-28-11B	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
12-28-11C	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
12-28-11D	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
12-28-11E	50	n/a	n/a	5	5	5	n/a	5	n/a	5
12-28-11F	100	n/a	n/a	10	10	10	n/a	10	n/a	10
12-28-11G	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA 12-27-11R Exp:01-03-11	Final Vol w/P&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

01/03/12 A-
RS

8260B Surrogate Solution,
2,000 mg/L, 5 x 1 ml
120002-01-5PAK

Lot #	Storage	Expiry
179059	-10 Degrees C	9/19/13

Solv: P/T Methanol
8260B Surrogate Solution
Lot #: 179059 - 29560
Rec: 9/22/11 MFR exp. 09/19/13

RS

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

01-03-12A							
20ug/ml BFB STD			Conc.		Date	EXP:	
EXP: 02-30-12			ug/ml	Lot#	CODE	Date	ul
02SI	020135-03	4-Bromofluorobenzene	2500	163173-29056	11-30-11A	12/11/12	16
J&T Baker		Purge & Trap MeOH		K07E34-00561	12/27/11	09/28/12	1980
01-03-12C							
20ug/ml BFB STD			Conc.		Date	EXP:	
EXP: 02-30-12			ug/ml	Lot#	CODE	Date	ul
02SI	020135-03	4-Bromofluorobenzene	2500	163173-29056	11-30-11A	12/11/12	16
J&T Baker		Purge & Trap MeOH		K07E34-00563	12/27/11	09/28/12	1980

01/03/12 RS

11/09/12 RS

RS

01-03-12D							
250ug/ml 8260 Surrogate - Sweetpea			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120002-01	Surrogate Standards	2000	179059-29580	01-03-12A	02/10/12	500
J.T.Baker		Purge & Trap MeOH		K07E34-00563	12/27/11	10/14/12	3500

01/03/12 RS.

11/09/12 RS

RS

01-03-12E							
250ug/ml 8260 Surrogate - Chico			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120002-01	Surrogate Standard	2000	179059-29580	01-03-12E	10/23/12	500
J&T Baker		Purge & Trap MeOH		K07E34-00543	08/12/11	11/14/12	3500

01/03/12 RS.

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

	Expiration Date:		01/03/12								
		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #3
Date	Conc.	12-27-11M	12-27-11O	12-27-11I	12-27-11K	12-27-11P	12-27-11N	12-27-11J	12-27-11L	12-27-11O
Code	µg/L	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12
01-03-12F	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-03-12G	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-03-12H	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-03-12I	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-03-12J	10	n/a	n/a	10	10	25	n/a	10	20	n/a
01-03-12K	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-03-12L	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-03-12M	200	n/a	n/a	200	200	125	n/a	200	200	n/a

11/09/12 RS

01/03/12 RS.

250µg/mL TAPD	Final Vol
12-27-11R	w/P&T H2O
Exp:01-03-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

11/09/12 RS

12/29/11 RS.

RS

Neo 524							
12-29-11A							
10ug/ml Neo-524 Internal Standard w/ Surrogate			Conc.		Date	Exp.	
			ug/ml	Lot #	Code	Date	uL
02SI	122450-02	524 Fortification Sol	1000	176776-29296	12-07-11A	03/10/12	200
J.T.Baker		Purge & Trap MeOH		K07E34-00563	12/07/11	06/12/12	19800

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

	Expiration Date:		12/30/11			
		5µg/mL Vol Std #9	50µg/mL Vol Std #7	50µg/mL Vol Std #8	250µg/mL TAPD	Final Vol
Date	Conc.	12-27-11M	12-27-11I	12-27-11K	12-27-11R	w/P&T H2O
Code	µg/L	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	Exp:01-03-12	mL
12-29-11B	0.2	2	n/a	n/a	2	50
12-29-11C	0.5	5	n/a	n/a	6	50
12-29-11D	1	10	n/a	n/a	10	50
12-29-11E	2	20	n/a	n/a	15	50
12-29-11F	10	n/a	10	10	25	50
12-29-11G	5	n/a	5	5	20	50
12-29-11H	40	n/a	40	40	35	50

11/09/12 RS.

12/29/11 RS

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

	Expiration Date:		01/10/12							
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #6	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-09-12AW	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
01-09-12AX	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
01-09-12AY	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
01-09-12AZ	20	20	20	n/a	n/a	n/a	~~20~~ 10	n/a	20	n/a
01-09-12BA	50	n/a	n/a	5	5	5	n/a	5	n/a	5
01-09-12BB	100	n/a	n/a	10	10	10	n/a	10	n/a	10
01-09-12BC	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

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

	Expiration Date:		01/11/12							
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #6	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-10-12A	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-10-12B	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-10-12C	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-10-12D	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-10-12E	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-10-12F	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-10-12G	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-10-12H	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPD	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

Exp. Date	uL
06/10/12	500
06/10/12	500
10/14/12	3000

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

	Expiration Date:		01/11/12							
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #6	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-10-12I	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-10-12J	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-10-12K	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-10-12L	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-10-12M	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-10-12N	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-10-12O	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-10-12P	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPD	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

4-Bromofluorobenzene
Solution, 2,500 ng/L, 1 ml

020135-03

Lot #	Storage	Expiry
163173	≤ -10 Degrees	8/24/13

Solvent: P/T Methanol

4-Bromofluorobenzene
Lot #: 163173 - 29053
Rec: 8/1/11 MFR exp. 08/24/13

A-

11/12/12 RS

01-12-12B								
25ug/ml BFB STD				Conc.		Date	EXP:	
EXP: 02-12-12				ug/ml	Lot#	CODE	Date	ul
02SI	020135-03	4-Bromofluorobenzene		2500	163173-29056	01-12-12A	05/11/12	20
J&T Baker		Purge & Trap MeOH			K07E34-00569	01/09/12	09/28/12	1980
01-12-12C								
25ug/ml BFB STD				Conc.		Date	EXP:	
EXP: 02-12-12				ug/ml	Lot#	CODE	Date	ul
02SI	020135-03	4-Bromofluorobenzene		2500	163173-29056	01-12-12A	05/11/12	20
J&T Baker		Purge & Trap MeOH			K07E34-00569	01/09/12	09/28/12	1980

1/12/12 RS.

1/16/12 RS

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

Expiration Date: 01/14/12

		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
Date	Conc.	01-09-12R	01-09-12V	01-09-12N	01-09-12P	01-09-12U	01-09-12S	01-09-12O	01-09-12Q	01-09-12T
Code	µg/L	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12	Exp:01-16-12
01-13-12A	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-13-12B	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-13-12C	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-13-12D	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-13-12E	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-13-12F	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-13-12G	200	n/a	n/a	200	200	125	n/a	200	200	n/a

1/16/12 RS

250µg/mL TAPD	Final Vol
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
5	50
10	50
20	50
25	50
35	50
40	50
45	50

1/16/12 RS.

1/16/12 A-

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

12001643

Lot# 167931 Storage 5-10 Degrees C Expiry 1/17/14

Solvent P/T Methanol

Method 8260 Gases

Lot #: 167931 - 28285

Rec: 2/17/11 MFR exp. 01/17/14

RS

1/16/12 RS

2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 2 X 0.6 ml

1/16/12 B-

o2si

2-Chloroethyl vinyl ether

Cat. No: 020145-02-02 Exp: 5/27/2012

Lot No: 160092 Storage: <= -10 Degrees C

Solvent: P/T Methanol

Lot #: 160092 - 26840 For Research Use Only

Rec: 6/4/10 MFR exp. 05/27/12

RS

1/16/12 RS

1/16/12 C-

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

122039-02

Lot# 176771 Storage -10 Degrees C Expiry 7/31/13

Solvent P/T Methanol

Solutions

Volatile Mix, 20-29

Lot #: 176771 - 29197

Rec: 8/5/11 MFR exp. 07/31/13

RS

1/16/12 RS.

EXP:	
Date	ul
/11/12	20
/28/12	1980

EXP:	
Date	ul
/11/12	20
/28/12	1980

L Vol Std #2	5µg/mL Vol Std #12
09-12Q	01-09-12T
01-16-12	Exp:01-16-12
n/a	5
n/a	10
5	n/a
10	n/a
40	n/a
100	n/a
200	n/a

250µg/mL TAPD	Final Vol @
01-09-12W	w/P&T H2O
Exp:01-16-12	mL
5	50
10	50
20	50
25	50
35	50
40	50
45	50

11/16/12 D- RS

n-Hexane Solution, 1,000 mg/L, 1 ml
120620-02
Lot # 176773 Storage ≤-10 Degrees C Expiry 7/30/16
Solv: P/T Methanol
Solutions
n-Hexane Solution
Lot #: 176773 - 29794
Rec: 10/24/11 MFR exp. 07/30/16
RS

11/16/12 E- RS

Ketones Solution, 2,000 mg/L, 1 ml
121020-05
Lot # 169173 Storage ≤-10 Degrees C Expiry 2/13/13
Solv: P/T MeOH:Water 9:1
Ketones
Lot #: 169173 - 29213
Rec: 8/5/11 MFR exp. 02/13/13
RS

11/16/12 F- RS

VOC Mix 4-3, 2,000 mg/L, 1 ml
120166-01
Lot # 176651 Storage ≤-10 Degrees C Expiry 9/11/13
Solv: P/T Methanol
VOC Mix 4-3, 2000mg/L
Lot #: 176651 - 29806
Rec: 10/24/11 MFR exp. 09/11/13
RS

11/16/12 G- RS

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml
120116-03-SS
Lot # 176557 Storage ≤-10 Degrees C Expiry 9/13/14
Solv: P/T Methanol
Method 8260 Gases (SS)
Lot #: 176557 - 29519
Rec: 9/20/11 MFR exp. 09/13/14
RS

11/16/12 H- RS

Vinyl Acetate Solution (Second Source), 2,000 mg/L, 1ml
020212-02-SS
Lot # 163906 Storage ≤-10 Degrees C Expiry 4/5/13
Solv: P/T Methanol
Vinyl Acetate (SS)
Lot #: 163906 - 30194
Rec: 1/10/12 MFR exp. 04/05/12
RS

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

A

01/25/12 SMM

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml
120116-03-SS

Lot #	Storage	Expiry
178557	≤-10 Degrees C	9/13/14

Solv: P/T Methanol

Method 8260 Gases (SS)
Lot #: 178557 - 29518
Rec: 9/20/11 MFR exp. 09/13/14

SMM

B

01/25/12 SMM

2-Chloroethyl Vinyl Ether Solution (Second Source), 2,000 mg/L, 2 X 0.6 ml
020145-02-02-SS

Lot #	Storage	Expiry
181404	≤-10 Degrees C	11/10/13

Solv: P/T Methanol

2-Chloroethyl vinyl ether
Lot #: 181404 - 30008
Rec: 11/16/11 MFR exp. 11/10/13

SMM

C

01/25/12 SMM

8260 VOC Liquids Solution (Second Source), 2,000 mg/L, 1 ml
120023-03-SS

Lot #	Storage	Expiry
161814	≤-10 Degrees C	1/10/13

Solv: P/T Methanol

8260 VOC Liquids (SS)
Lot #: 167814 - 28709
Rec: 4/20/11 MFR exp. 01/10/13

SMM

D

01/25/12 SMM

Vinyl Acetate Solution (Second Source), 2,000 mg/L, 1 ml
020212-02-SS

Lot #	Storage	Expiry
183906	≤-10 Degrees C	4/5/12

Solv: P/T Methanol

Vinyl Acetate (SS)
Lot #: 183906 - 30195
Rec: 1/10/12 MFR exp. 04/05/12

SMM

E

01/25/12 SMM

Custom 8260 Solution, Second Source, 2,000 mg/L, 1 ml
120296-01-SS

Lot #	Storage	Expiry
166038	≤-10 Degrees C	5/18/12

Solv: P/T Methanol

Custom 8260 Solution, 2000mg/L (SS)
Lot #: 166038 - 27768
Rec: 11/19/10 MFR exp. 05/18/12

SMM

F

01/25/12 SMM

G

01/25/12 SMM

H

01/25/12 SMM

I

01/25/12 SMM

J

01/25/12 SMM

01/25/12 F

n-Hexane Solution (Second Source), 1,000 mg/L, 1 ml

020626-02-SS

Lot #	Storage	Expiry
179199		9/21/13

Solvt: P/T Methanol

n-Hexane (SS) 1000mg/L

Lot #: 179199 - 29612

Rec: 10/5/11 MFR exp. 09/21/13

01/25/12 G

Hexachloroethane (Second Source) Solution, 1000 mg/L, 1 ml

020649-02-SS

Lot #	Storage	Expiry
183795	≤-10 Degrees C	1/3/14

Solvt: P/T Methanol

Hexachloroethane (SS)

Lot #: 183795 - 30199

Rec: 1/10/12 MFR exp. 01/03/14

01/25/12 H

Acrolein Solution (Second Source), 10,000 mg/L, 2 x 0.6 ml

020339-09-02-SS

Lot #	Storage	Expiry
182703	≤6 Degrees C	1/21/12

Solvt: Water, HPLC Grade

Lot #: 182703 - 30108

Rec: 12/15/11 MFR exp. 01/21/12

01/25/12 I

VOC Mix 4-3 (second source), 2,000 mg/L, 1 ml

120166-01-SS

Lot #	Storage	Expiry
163778	</= 6 Degrees	9/9/12

Solv: P/T Methanol

VOC Mix 4-3 (SS)

Lot #: 163778 - 29835

Rec: 10/24/11 MFR exp. 09/09/12

01/25/12 J

Heptane Solution (Second Source), 1000 mg/L, 1 ml

02si Cat. No: 020546-02-SS
Lot No: 142276

Exp: 1/19/2012
Storage: </= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

Heptane Solution (SS)

Lot #: 142276 - 26578

Rec: 5/11/10 MFR exp. 01/19/12

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

1/25/12
1/26/12 K-
RS

2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 2 X 0.6 ml

n2si
2-Chloroethyl vinyl ether
Lot #: 160092 - 26641
Rec: 6/4/10 MFR exp. 05/27/12

Cat. No: 020145-02-02
Lot No: 160092

Exp: 5/27/2012
Storage: <= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

RS 1/25

1/25/12
1/26/12 L-
RS

n-Hexane Solution, 1,000 mg/L, 1 ml
020620-02
Lot # 163378 | Storage ≤ -10 Degrees | Expiry 8/29/15
Solv: P/T Methanol
RAID only, not human consump. Made in the USA.

n-Hexane Solution
Lot #: 163378 - 29232
Rec: 8/5/11 MFR exp. 08/29/15

RS 1/25

1/25/12
1/26/12 M-
RS

Method 8260 Gases, 2,000 mg/L, 2 X 0.6 ml
120016-03
Lot # 167931 | Storage ≤ -10 Degrees C | Expiry 1/17/14
Solv: P/T Methanol
RAID only, not human consump. Made in the USA.

Method 8260 Gases
Lot #: 167931 - 28286
Rec: 2/17/11 MFR exp. 01/17/14

RS 1/25

1/25/12
1/26/12 N-
RS

Heptane Solution, 1000 mg/L, 1 ml
020546-02
Lot # 169174 | Storage ≤ -10 Degrees C | Expiry 2/18/14
Solv: P/T Methanol
RAID only, not human consump. Made in the USA.

Heptane Solution
Lot #: 169174 - 28326
Rec: 2/17/11 MFR exp. 02/18/14

RS 1/25

1/25/12
1/26/12 O-
RS

8260B Surrogate Solution, 2,000 mg/L, 5 x 1 ml
120002-01-5PAK
Lot # 178653 | Storage ≤ -10 Degrees C | Expiry 9/11/13
Solv: P/T Methanol
RAID only, not human consump. Made in the USA.

8260B Surrogate Solution
Lot #: 178653 - 29570
Rec: 9/22/11 MFR exp. 09/11/13

RS. 1/25

1/25/12
1/26/12
RS

1/25/12
RS

11/25/12
11/26/12
tes

P-

VOC Mix 4-3, 2,000 mg/L, 1 ml
120156-01
Lot # 178651 Storage 5 Degrees C Expiry 9/11/13
VOC Mix 4-3, 2000mg/L
Lot #: 178651 - 29811
Rec: 10/24/11 MFR exp. 09/11/13

RS 1/25

01-25-12Q							
50ug/ml Vol Work Std #7							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	120016-03	Gas Mix	2000	167931-28286	01-25-12M	01/30/12	100
O2SI	020049-02	HEXACHLOROETHANE	1000	164816-29154	01-18-12A	02/07/12	200
O2SI	020228-02	Benzyl Chloride	1000	176701-29775	01-18-12B	02/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3500
01-25-12R							
50ug/ml Vol Work Std #1							
Exp:02/01/12							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	020145-02-02	2-CEVE	2000	160092-26641	01-25-12K	02/07/12	50
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	1950
01-25-12S							
50ug/ml Vol Work Std #8							
Exp:02/01/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	122039-02	Volatile Mix, 20-29	2000	176771-29197	01-16-12C	02/01/12	100
O2SI	120023-03	VOC'S-54 COMP	2000	164454-27875	01-09-12D	02/14/12	100
O2SI	020232-02	Vinyl Acetate	2000	182701-30110	01-18-12C	03/11/12	100
O2SI	020620-02	n-Hexane	1000	163378-29232	01-25-12L	02/07/12	200
O2SI	020546-02	Heptane	1000	169174-28326	01-25-12N	02/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3300
01-25-12T							
50ug/ml Vol Work Std #2							
Exp:02/01/12							
Supplier	ID #	ID	ug/ml				
O2SI	121020-05	HSL'S-Ketone Solution	2000	169173-29212	01-16-12B	02/07/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3900
		01-25-12U	Exp:	02/01/12			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		01-25-12Q	02/01/12	200	
		50ug/ml Vol Work Std #8		01-25-12S	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1600	
		01-25-12V	Exp:	02/01/12			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		01-25-12R	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
		01-25-12W	Exp:	02/01/12			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		01-25-12T	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
01-25-12X							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:02/01/12			ug/ml	Lot #	Code	Date	uL
O2SI	120002-01	8260B Surr Solution	2000	179059-29570	01-25-12O	02/07/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3900
01-25-12Y			Exp:	02/01/12			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		01-25-12X	02/01/12	200	
J&T Brand		Purge & Trap MeOH		01/23/12	06/08/12	1800	

1/25/12 RS.

01-25-12Z						
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						
Exp:02/01/12			Conc.		Date	Exp.
Supplier	ID #		ug/ml	Lot #	Code	Date
02SI	120166-01	Volatile Mix 4-3	2000	178651-29811	01-25-12P	02/07/12
02SI	020229-09	Acrolein	10000	182702-30106	01-18-12E	01/21/12
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12

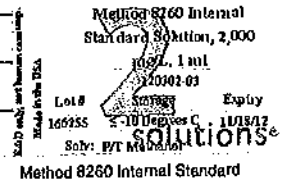
01-25-12AA						
50ug/ml VOC Std#5						
Exp:02/01/12						
			Conc.		Date	Exp.
Supplier	ID #	ID	ug/ml	Lot #	Code	Date
O2SI	120016-03-SS	8260 Gases(SS)	2000	178557-29518	01-25-12A	02/01/12
02SI	020145-02-02-	2-CEVE	2000	181404-30008	01-25-12B	06/14/12
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12
01-25-12AB						
50ug/ml VOC Std#6						
Exp:02/01/12						
	ID #	ID	ug/ml	Lot #	Code	Date
02SI	120023-03-SS	VOC'S 54 COMP.	2000	167814-28709	01-25-12C	06/14/12
O2SI	120296-01	Custom 8260 Solution	2000	166038-27766	01-25-12E	05/16/12
02SI	020232-02-SS	Vinyl Acetate(SS)	2000	183906-30195	01-25-12D	04/05/12
02SI	020620-02-SS	n-HEXANE	1000	179199-29612	01-25-12F	06/14/12
02SI	020049-02-SS	HEXACHLOROETHANE	1000	183795-30199	01-25-12G	06/29/12
02SI	020546-02-SS	Heptane(SS)	1000	182276-26578	01-25-12J	01/19/12
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12
01-25-12AC						
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						
Exp:02/01/12			Conc.		Date	Exp.
Supplier	ID #		ug/ml	Lot #	Code	Date
O2SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	163778-29835	01-25-12I	06/14/12
02SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	182703-30108	01-25-12H	01/21/12
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12

1/25/12 RS.

01-25-12AD						
50ug/ml Vol Work Std #7						
Exp:02/01/12						
			Conc.		Date	Exp.
Supplier	ID #	ID	ug/ml	Lot #	Code	Date
02SI	120016-03	Gas Mix	2000	167931-28286	01-25-12M	01/30/12
02SI	020049-02	HEXACHLOROETHANE	1000	164816-29154	01-18-12A	02/07/12
02SI	020228-02	Benzyl Chloride	1000	176701-29775	01-18-12B	02/07/12
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12
01-25-12AE						
50ug/ml Vol Work Std #1						
Exp:02/01/12						
Supplier	ID #	ID	ug/ml	Lot #	Code	Date
02SI	020145-02-02	2-CEVE	2000	160092-26641	01-25-12K	02/07/12
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12
01-25-12AF						
50ug/ml Vol Work Std #8						
Exp:02/01/12						
			Conc.		Date	Exp.
Supplier	ID #	ID	ug/ml	Lot #	Code	Date
02SI	122039-02	Volatile Mix, 20-29	2000	176771-29197	01-16-12C	02/01/12
02SI	120023-03	VOC'S-54 COMP	2000	164454-27875	01-09-12D	02/14/12
O2SI	020232-02	Vinyl Acetate	2000	182701-30110	01-18-12C	03/11/12
O2SI	020620-02	n-Hexane	1000	163378-29232	01-25-12L	02/07/12
02SI	020546-02	Heptane	1000	169174-28326	01-25-12N	02/07/12
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12
01-25-12AG						
50ug/ml Vol Work Std #2						
Exp:02/01/12						
Supplier	ID #	ID	ug/ml			
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-29212	01-16-12E	02/07/12
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12

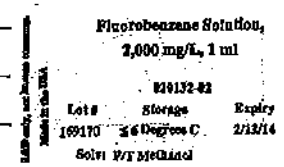
		01-25-12AH	Exp:	02/01/12			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		01-25-12AD	02/01/12	200	
		50ug/ml Vol Work Std #8		01-25-12AF	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1600	
		01-25-12AI	Exp:	02/01/12			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		01-25-12AE	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
		01-25-12AJ	Exp:	02/01/12			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		01-25-12AG	02/01/12	200	
		J&T Brand		01/23/12	06/08/12	1800	
01-25-12AK							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:02/01/12			ug/ml	Lot #	Code	Date	uL
O2SI	120002-01	8260B Surr Solution	2000	179059-29570	01-25-12O	02/07/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3900
01-25-12AL			Exp:	02/01/12			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		01-25-12AK	02/01/12	200	
J&T Brand		Purge & Trap MeOH		01/23/12	06/08/12	1800	
01-25-12AM							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/01/12			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120166-01	Volatile Mix 4-3	2000	178651-29811	01-25-12P	02/07/12	500
O2SI	020229-09	Acrolein	10000	182702-30106	01-18-12B	01/21/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	06/08/12	3400

A-



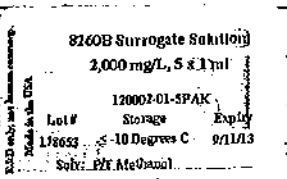
Method 8260 Internal Standard
Lot #: 166255 - 29271
Rec: 8/5/11 MFR exp. 11/18/12

B-



Fluorobenzene
Lot #: 169170 - 29290
Rec: 8/5/11 MFR exp. 02/13/14

C-



8260B Surrogate Solution
Lot #: 178653 - 29571
Rec: 9/22/11 MFR exp. 09/11/13

GC/MS STANDARD PREPARATION BOOK # _____ PAGE # _____

Sweetpea

01-24-11D

250ug/ml 8260 Internal Standard w/ Surrogate			Conc.	Lot #	Date	Exp.
O2SI	120302-03	Internal Standard Mix	2000	166255-29271	01-24-12A	06/09/12
O2SI	020132-02	Fluorobenzene Standard	2000	169170-29290	01-24-12B	06/09/12
O2SI	120002-01	Surrogate Standard	2000	178653-29571	01-24-12C	06/09/12
J.T.Baker		Purge & Trap MeOH		K07E34-00570	01/23/12	09/23/12

1/24/12 RS. 1/25/12

Volatile Standard Curve Preparation for 10mL Purge (624 water)-NEO

		Expiration Date:		01/25/12					
		5µg/mL Vol Std #9	5µg/mL Vol Std #12	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Vol Std #3	50µg/mL Vol Std #2	250µg/mL TAPD	Final Vol
Date	Conc.	01-18-12K	01-18-12M	01-18-12G	01-18-12I	01-18-12J	01-18-12H	01-18-12P	wPAT H2O
Code	µg/L	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	mL
01-24-12E	0.2	2	2	n/a	n/a	n/a	n/a	2	50
01-24-12F	0.5	5	5	n/a	n/a	n/a	n/a	5	50
01-24-12G	1	10	10	n/a	n/a	n/a	n/a	10	50
01-24-12H	5	n/a	n/a	5	5	40	20	20	50
01-24-12I	10	n/a	n/a	10	10	20	25	25	50
01-24-12J	40	n/a	n/a	40	40	100	35	35	50
01-24-12K	100	n/a	n/a	100	100	200	40	40	50

1/24/12 RS.

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

		Expiration Date:		01/26/12							
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #6	50µg/mL Surr	5µg/mL Vol Std #10	50µg/mL Vol Std #1	50µg/mL Vol Std #2	5µg/mL Vol Std #11	
Date	Conc.	01-25-12U	01-25-12Y	01-25-12Q	01-25-12S	01-25-12X	01-25-12V	01-25-12R	01-25-12T	01-25-12W	
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	
01-25-12AN	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a	
01-25-12AO	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a	
01-25-12AP	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a	
01-25-12AQ	5	n/a	n/a	5	5	10	n/a	5	5	5	
01-25-12AR	10	n/a	n/a	10	10	25	n/a	10	10	10	
01-25-12AS	40	n/a	n/a	40	40	60	n/a	40	40	40	
01-25-12AT	100	n/a	n/a	100	100	100	n/a	100	100	100	
01-25-12AU	200	n/a	n/a	200	200	125	n/a	200	200	200	

1/25/12 RS.

250µg/mL TAPD	5µg/mL Vol Std #13
01-25-12Z	wPAT H2O
Exp:02-01-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

1/26/12 RS.

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

		Expiration Date:		01/25/12						
		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #11
Date	Conc.	01-18-12K	01-18-12O	01-18-12G	01-18-12I	01-18-12N	01-18-12L	01-18-12H	01-18-12J	01-18-12V
Code	µg/L	Exp:01-25-12	Exp:01-26-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12	Exp:01-25-12
01-24-12L	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a
01-24-12M	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a
01-24-12N	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a
01-24-12O	5	n/a	n/a	5	5	10	n/a	5	5	5
01-24-12P	10	n/a	n/a	10	10	25	n/a	10	10	10
01-24-12Q	40	n/a	n/a	40	40	60	n/a	40	40	40
01-24-12R	100	n/a	n/a	100	100	100	n/a	100	100	100

1/24/12 RS.

250µg/mL TAPD	5µg/mL Vol Std #13
01-18-12P	wPAT H2O
Exp:01-25-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50

1/26/12 RS.

Volatile Standard Curve
Expiration D

	5µ
Date	Conc.
Code	µg/L
01-26-12L	2
01-26-12M	5
01-26-12N	10
01-26-12O	20
01-26-12R	60
01-26-12Q	100
01-26-12R	200

NOTEBOOK INSERT LABEL

Gasoline
Lot: LB82077 EXP: FEB/2014 STORAGE: ROOM TEMP. 47516-U 1 x 1ml

DATE RECEIVED: 11/26/12 A- RS

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

STANDARD TRANSFER LABEL

Date of Preparation:
Exp. Date:
Reference Number:
Storage: EXP: FEB/2014 ROOM TEMP.
Description:
Lot #: LB82077 - 29979
Rec: 11/11/11 MFR exp. 02/28/14
gasoline

RESTEK Catalog # 3

11/26/12 B- RS

Unleaded gasoline composite
Lot #: A081012 - 29980
Rec: 11/14/11 MFR exp. 05/30/18

Unleaded Gasoline Composite Standard

50000 ug/mL each in P&T Methanol
Lot# A081012 Exp. Date: 05/2018 Store: 0°C or colder

01/26/12C							
2000ug/ml Gasoline						APPL	
			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
Supelco	LB82077	Gasoline	20,000	LB82077-29979	01-26-12A	02/01/14	200
J&T Brand		Purge & Trap MeOH		K07E14-00570	01/23/12	08/02/12	1600

01/26/12D							
2000ug/ml Unleaded Gasoline						APPL	
			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
Restek	30205	Unleaded Gasoline	50,000	A081012-29980	01-26-12B	02/01/14	80
J&T Brand		Purge & Trap MeOH		K07E34-00570	01/23/12	08/02/12	1920

RS

Gasoline Curve Preparation for 100mL Purge (water)-CHICO			
	Expiration Date:		01/27/12
		50µg/mL Gasoline	Final Vol
Date	Conc.	01-26-12C	w/P&T H2O
Code	µg/L	Exp:01-03-12	mL
01-26-12E	20	1	100
01-26-12F	50	2.5	100
01-26-12G	100	5	100
01-26-12H	300	15	100
01-26-12I	600	30	100
01-26-12J	800	40	100
01-26-12K	1000	50	100

RS

Volatile Standard Curve Preparation for 5mL Purge (8260 soil)-THOR											
	Expiration Date:		01/27/12								
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	01-25-12AH	01-25-12AL	01-25-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AJ
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-26-12L	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
01-26-12M	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
01-26-12N	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
01-26-12O	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
01-25-12P	50	n/a	n/a	5	5	5	n/a	5	n/a	5
01-26-12Q	100	n/a	n/a	10	10	10	n/a	10	n/a	10
01-26-12R	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA	Final Vol
01-25-12AM	w/P&T H2O
Exp:02-01-12	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

RS

Volatile Standard Curve Preparation for 10mL Purge (524 water)-NEO								
	Expiration Date:		01/28/12					
		5µg/mL Vol Std #9	5µg/mL Vol Std #12	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Vol Std #2	250µg/mL TAPD	Final Vol (mL) w/PAT H2O
Date	Conc.	01-25-12U	01-25-12W	01-25-12Q	01-25-12S	01-25-12T	01-25-12Z	
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	
01-27-12A	0.2	2	2	n/a	n/a	n/a	2	50
01-27-12B	0.5	5	5	n/a	n/a	n/a	5	50
01-27-12C	1	10	10	n/a	n/a	n/a	10	50
01-27-12D	5	n/a	n/a	5	5	40	20	50
01-27-12E	10	n/a	n/a	10	10	20	25	50
01-27-12F	40	n/a	n/a	40	40	100	35	50

1/27/12 RS.

A. 1/28/12

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

Method 8260 Internal Standard
Lot #: 166255 - 29272
Rec: 8/5/11 MFR exp. 11/18/12

B. 1/28/12

Fluorobenzene Solution, 2,000 mg/L, 1 ml
120132-02
Lot# 169170 Storage ≤ 6 Degrees C Expiry 2/13/14
Solv: P/T Methanol

Fluorobenzene
Lot #: 169170 - 29281
Rec: 8/5/11 MFR exp. 02/13/14

C. 1/28/12

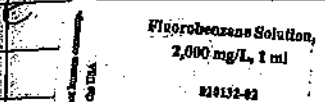
8260B Surrogate Solution, 2,000 mg/L, 5 x 1 ml
120002-01-5PAK
Lot# 178653 Storage ≤ -10 Degrees C Expiry 9/11/13
Solv: P/T Methanol

8260B Surrogate Solution
Lot #: 178653 - 29569
Rec: 9/22/11 MFR exp. 09/11/13

D. 1/28/12

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

Method 8260 Internal Standard
Lot #: 166255 - 29273
Rec: 8/5/11 MFR exp. 11/18/12



Fluorobenzene
Lot #: 169170 - 29282
Rec: 8/5/11 MFR exp. 02/13/14

Sweetpea							
01-27-12G							
250ug/ml 8260 Internal Standard - Sweetpea			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120302-03	Internal Standard Mix	2000	166255-29272	01-28-12A	06/10/12	500
	020132-02	Fluorobenzene Standard	2000	169170-29281	01-28-12B	06/10/12	500
J.T.Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/14/12	3000
01-27-12H							
250ug/ml 8260 Surrogate - Sweetpea			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
O2SI	120002-01	Surrogate Standards	2000	178653-29569	01-28-12C	06/10/12	500
J.T.Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/14/12	3500

Vol. of Standard Curve Preparation for 10mL Purge (8260 water)-SWEETPEA

	Expiration Date:	01/25/12									
		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 #1	50µg/mL Vol Std #2	5µg/mL Vol Std #12
	Conc.	01-25-12AH	01-25-12AL	01-25-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AJ
	µg/mL	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-27-12I	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
01-27-12J	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
01-27-12K	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
01-27-12C	5	n/a	n/a	5	5	10	n/a	5	5	n/a
01-27-12M	10	n/a	n/a	10	10	25	n/a	10	10	n/a
01-27-12N	40	n/a	n/a	40	40	80	n/a	40	40	n/a
01-27-12O	100	n/a	n/a	100	100	100	n/a	100	100	n/a
01-27-12R	200	n/a	n/a	200	200	125	n/a	200	200	n/a

250µg/mL TAPD	Final Vol
01-25-12AM	w/P&T H2O
Exp:02-01-12	mL
3	50
5	50
10	50
20	50
25	50
35	50
40	50
45	50

Neo							
01-28-12F							
50ug/ml 8260 Internal Standard			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120302-03	Internal Standard Mix	2000	166255-29273	01-28-12D	06/14/12	500
O2SI	020132-02	Fluorobenzene Standard	2000	169170-29282	01-28-12E	06/14/12	500
J.T Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/10/12	19000
For Neo's "The One" Autosampler							
01-28-11G							
50ug/ml 8260B Surrogate- Neo			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	8260B Surr	Surrogate Standards	2000	178653-29569	01-28-12C	06/14/12	500
J.T Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/10/12	19500

1/28/12 RS

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

	Expiration Date:		01/29/12							
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #3
Date	Conc.	01-25-12AH	01-25-12AL	01-25-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AC
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-28-12H	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
01-28-12I	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
01-28-12J	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
01-28-12K	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
01-28-12L	50	n/a	n/a	5	5	5	n/a	5	n/a	5
01-28-12M	100	n/a	n/a	10	10	10	n/a	10	n/a	10
01-28-12N	200	n/a	n/a	20	20	20	n/a	20	n/a	20

1/31/12 RS

A-

EPA Method 502/524
Fortification Solution, 3-1,
1000 mg/L, 1 ml
122450-02
Lot # 176776 Storage 5-10 Degrees C Expiry 7/31/13
Solv: P/T Methanol
Made in the USA
R.S.D only, see Chromatogram

Solutions®
EPA Method 502/524 Fortification
Lot #: 176776 - 29297
Rec: 8/5/11 MFR exp. 07/31/13

RS.

Thor 524						
01-31-12B						
10ug/ml Nec-524 Internal Standard w/ Surrogate			Conc.		Date	
			ug/ml	Lot #	Code	
02SI	122450-02	524 Fortification Sol	1000	176776-29297	01-31-12A	06/30/12
J.T.Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/10/12

1/31/12 RS

CHICO						
01-31-12C						
250ug/ml 8260 Internal Standard - Chico			Conc.		Date	
Supplier	ID #		ug/ml	Lot #	Code	
02SI	120302-03	Internal Standard Mix	2000	166255-29273	01-28-12D	07/23/12
02SI	020132-02	Fluorobenzene Standard	2000	169170-29282	01-28-12E	07/23/12
J&T Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/11/12

1/31/12 RS

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

	Expiration Date:		02/01/12							
		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 #1	5µg/mL Vol Std #2	50µg/mL Vol Std #3
Date	Conc.	01-25-12AH	01-25-12AL	01-25-12AD	01-25-12AF	01-25-12AK	01-25-12AI	01-25-12AE	01-25-12AG	01-25-12AC
Code	µg/L	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12	Exp:02-01-12
01-31-12D	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a
01-31-12E	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a
01-31-12F	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a
01-31-12G	5	n/a	n/a	5	5	10	n/a	5	5	10
01-31-12H	10	n/a	n/a	10	10	25	n/a	10	10	25
01-31-12I	20	n/a	n/a	20	20	40	n/a	20	20	40
01-31-12J	40	n/a	n/a	40	40	80	n/a	40	40	80
01-31-12K	100	n/a	n/a	100	100	100	n/a	100	100	100

1/31/12 RS

L-

Fluorobenzene Solution,
2,000 mg/L, 1 ml
020132-02
Lot # 169170 Storage 5-6 Degrees C Expiry 2/13/14
Solv: P/T Methanol
Made in the USA
R.S.D only, see Chromatogram

Fluorobenzene
Lot #: 169170 - 29283
Rec: 8/5/11 MFR exp. 02/13/14

RS

Sweetpea							
01-31-12N							
250ug/ml 8260 Internal Standard w/ Surrogate			Conc.	Lot #	Date	Exp.	
O2SI	120302-03	Internal Standard Mix	2000	166255-29272	01-28-12A	06/10/12	500
O2SI	020132-02	Fluorobenzene Standard	2000	169170-29283	01-31-12L	06/10/12	500
O2SI	120002-01	Surrogate Standard	2000	178653-29569	01-28-12C	06/10/12	500
J.T.Baker		Purge & Trap MeOH		K07E34-00571	01/25/12	10/14/12	2500

A –

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

120016-03

Lot #	Storage	Expiry
167931	≤-10 Degrees C	1/17/14

Solv: P/T Methanol

Method 8260 Gases
Lot #: 167931 - 28287
Rec: 2/17/11 MFR exp. 01/17/14

B –

Hexachloroethane Solution, 1000 mg/L, 1 ml

020049-02

Lot #	Storage	Expiry
176700	≤-10 Degrees C	7/31/13

Solv: P/T Methanol

Hexachloroethane
Lot #: 176700 - 29160
Rec: 8/5/11 MFR exp. 07/31/13

C –

Benzyl Chloride Solution, 1000 mg/L, 1 ml

020228-02

Lot #	Storage	Expiry
176701	≤-10 Degrees C	7/31/13

Solv: P/T Methanol

Benzyl Chloride
Lot #: 176701 - 29774
Rec: 10/24/11 MFR exp. 07/31/13

D –

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

120039-02

Lot #	Storage	Expiry
176771	≤-10 Degrees C	7/31/13

Solv: P/T Methanol

Volatile Mix, 20-29
Lot #: 176771 - 29198
Rec: 8/5/11 MFR exp. 07/31/13

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 - 27876
Rec: 12/15/10 MFR exp. 10/04/12

2/02/12 RS F-

Ketones Solution, 2,000 mg/L, 1 ml
121020-05
Lot# 169173 Storage ≤-10 Degrees C Expiry 2/13/13
Solv: P/T MeOH:Water 9:1

Ketones
Lot #: 169173 - 29214
Rec: 8/5/11 MFR exp. 02/13/13

2/02/12 RS G-

8260B Surrogate Solution, 2,000 mg/L, 5 x 1 ml
120002-01-5PAK
Lot# 178653 Storage ≤-10 Degrees C Expiry 9/11/13
Solv: P/T Methanol

8260B Surrogate Solution
Lot #: 178653 - 29568
Rec: 9/22/11 MFR exp. 09/11/13

2/02/12 RS H-

VOC Mix 4-3, 2,000 mg/L, 1 ml
120166-01
Lot# 178651 Storage ≤-10 Degrees C Expiry 9/11/13
Solv: P/T Methanol

VOC Mix 4-3, 2000mg/L
Lot #: 178651 - 29804
Rec: 10/24/11 MFR exp. 09/11/13

2/02/12 RS I-

Acrolein Solution, 10,000 mg/L, 2 x 0.6 ml
120220-09-02
Lot# 184364 Storage ≤-10 Degrees C Expiry 2/25/12
Solv: Water, HPLC Grade

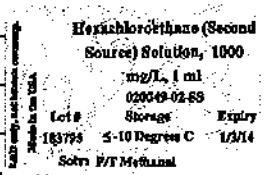
Acrolein SOLUTION
Lot #: 184364 - 30245
Rec: 1/19/12 MFR exp. 02/25/12

Acrolein solution

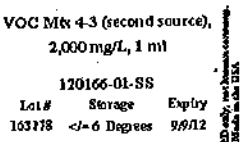
2/02/12 RS J-

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml
120916-03-SS
Lot# 178557 Storage ≤-10 Degrees C Expiry 9/13/14
Solv: P/T Methanol

Method 8260 Gases (SS)
Lot #: 178557 - 29517
Rec: 9/20/11 MFR exp. 09/13/14



Hexachloroethane (SS)
Lot #: 183795 - 30198
Rec: 1/10/12 MFR exp. 01/03/14



VOC Mix 4-3 (SS)
Lot #: 163778 - 29836
Rec: 10/24/11 MFR exp. 09/09/12

02-02-12M							
50ug/ml Vol Work Std #7							
Exp:02/08/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	167931-28287	02-02-12A	02/08/12	100
02SI	020049-02	HEXACHLOROETHANE	1000	164816-29160	02-02-12B	04/07/12	200
02SI	020228-02	Benzyl Chloride	1000	176701-29774	02-02-12C	04/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3500
02-02-12N							
50ug/ml Vol Work Std #1							
Exp:02/08/12							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	160092-26641	01-25-12K	04/07/12	50
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1950
02-02-12O							
50ug/ml Vol Work Std #8							
Exp:02/08/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	176771-29198	02-02-12D	04/07/12	100
02SI	120023-03	VOC'S-54 COMP	2000	164454-27876	02-02-12E	04/07/12	100
02SI	020232-02	Vinyl Acetate	2000	182701-30110	01-18-12C	03/11/12	100
02SI	020620-02	n-Hexane	1000	163378-29232	01-25-12L	04/07/12	200
02SI	020546-02	Heptane	1000	169174-28326	01-25-12N	04/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3300
02-02-12P							
50ug/ml Vol Work Std #2							
Exp:02/08/12							
Supplier	ID #	ID	ug/ml				
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-29214	02-02-12F	02/08/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3900
		02-02-12Q	Exp:	02/08/12			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		02-02-12M	02/08/12	200	
		50ug/ml Vol Work Std #8		02-02-12O	02/08/12	200	
		J&T Brand		02/02/12	06/08/12	1600	
		02-02-12R	Exp:	02/08/12			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		02-02-12N	02/08/12	200	
		J&T Brand		02/02/12	06/08/12	1800	

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		02-02-12S	Exp:	02/08/12			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		02-02-12P	02/08/12	2000	
		J&T Brand		02/02/12	06/08/12	1800	
02-02-12T							
50ug/ml 8260 Surrogate			Conc.		Date	Exp:	
Exp:02/08/12			ug/ml	Lot #	Code	Date	
O2SI	120002-01	8260B Surr Solution	2000	178653-29568	02-02-12G	02/08/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1900
02-02-12U			Exp:	02/08/12			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		02-02-12T	02/08/12	200	
J&T Brand		Purge & Trap MeOH		02/02/12	06/08/12	1800	
02-02-12V							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/08/12			Conc.		Date	Exp:	
Supplier	ID #		ug/ml	Lot #	Code	Date	
O2SI	120166-01	Volatile Mix 4-3	2000	178651-29804	02-02-12H	02/07/12	500
O2SI	020229-09	Acrolein	10000	184364-30245	02-02-12I	01/21/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1900

2/02/12 RS

02-02-12W							
50ug/ml VOC Std#5							
Exp:02/08/12							
			Conc.		Date	Exp:	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	
O2SI	120016-03-SS	8260 Gases(SS)	2000	178557-29517	02-02-12J	02/08/12	150
O2SI	020145-02-02-	2-CEVE	2000	181404-30007	01-09-12H	02/14/12	50
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1900
02-02-12X							
50ug/ml VOC Std#6							
Exp:02/08/12							
	ID #	ID	ug/ml	Lot #	Code	Date	
O2SI	120023-03-SS	VOC'S 54 COMP.	2000	163271-27775	01-09-12I	02/14/12	50
O2SI	120296-01	Custom 8260 Solution	2000	166038-27771	01-09-12J	02/14/12	50
O2SI	020232-02-SS	Vinyl Acetate(SS)	2000	178905-29558	01-25-12D	04/05/11	50
O2SI	020620-02-SS	n-HEXANE	1000	179199-29612	01-25-12F	06/14/12	1000
O2SI	020049-02-SS	HEXACHLOROETHANE	1000	183795-30198	02-02-12K	03/29/12	100
O2SI	020546-02-SS	Heptane(SS)	1000	142276-23578	01-25-12J	06/19/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1550
02-02-12Y							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/08/12			Conc.		Date	Exp:	
Supplier	ID #		ug/ml	Lot #	Code	Date	
O2SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	163778-29836	02-02-12L	06/14/12	2500
O2SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	184365-30247	01-18-12AT	02/25/11	50
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1700

2/02/12 RS.

RS 2/02/12

02-02-12Z							
50ug/ml Vol Work Std #7							
Exp:02/08/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	120016-03	Gas Mix	2000	167931-28287	02-02-12A	02/08/12	100
O2SI	020049-02	HEXACHLOROETHANE	1000	164816-29160	02-02-12B	04/07/12	200
O2SI	020228-02	Benzyl Chloride	1000	176701-29774	02-02-12C	04/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3500
02-02-12AA							
50ug/ml Vol Work Std #1							
Exp:02/08/12							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	020145-02-02	2-CEVE	2000	150092-26641	01-25-12K	04/07/12	50
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	1950
02-02-12AB							
50ug/ml Vol Work Std #8							
Exp:02/08/12							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	122039-02	Volatile Mix, 20-29	2000	176771-29198	02-02-12D	04/07/12	100
O2SI	120023-03	VOC'S-54 COMP	2000	164454-27876	02-02-12E	04/07/12	100
O2SI	020232-02	Vinyl Acetate	2000	182701-30110	01-18-12C	03/11/12	100
O2SI	020620-02	n-Hexane	1000	163378-29232	01-25-12L	04/07/12	200
O2SI	020546-02	Heptane	1000	169174-28326	01-25-12N	04/07/12	200
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3300
02-02-12AC							
50ug/ml Vol Work Std #2							
Exp:02/08/12							
Supplier	ID #	ID	ug/ml				
O2SI	121020-05	HSL'S-Ketone Solution	2000	169173-29214	02-02-12F	02/08/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3900
		02-02-12AD	Exp:	02/08/12			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		02-02-12Z	02/08/12	200	
		50ug/ml Vol Work Std #8		02-02-12AB	02/08/12	200	
		J&T Brand		02/02/12	06/08/12	1600	
		02-02-12AE	Exp:	02/08/12			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		02-02-12AA	02/08/12	200	
		J&T Brand		02/02/12	06/08/12	1800	
		02-02-12AF	Exp:	02/08/12			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		02-02-12AC	02/08/12	200	
		J&T Brand		02/02/12	06/08/12	1800	
02-02-12AG							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:02/08/12			ug/ml	Lot #	Code	Date	uL
O2SI	120002-01	8260B Surr Solution	2000	178653-29568	02-02-12G	02/08/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3900
02-02-12AH			Exp:	02/08/12			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		02-02-12AG	02/08/12	200	
J&T Brand		Purge & Trap MeOH		02/02/12	06/08/12	1800	
02-02-12AI							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:02/08/12			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
O2SI	120166-01	Volatile Mix 4-3	2000	178651-29804	02-02-12H	02/07/12	500
O2SI	020229-09	Acrolein	10000	184364-30245	02-02-12I	01/21/12	100
J&T Brand		Purge & Trap MeOH		K07E34-00574	02/02/12	06/08/12	3400

Sweetpea 524						
02-02-12AJ						
50ug/ml 524 Internal Standard w/ Surrogate			Conc.		Date	Exp
			ug/ml	Lot #	Code	Date
02SI	122450-02	524 Fortification Sol	1000	165726-27967	01-31-12A	08/20/12
J.T.Baker		Purge & Trap MeOH		K07E34-00574	02/02/12	10/31/12

2/02/12 RS.

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

		Expiration Date:		02/03/12				
		5µg/mL Vol Std #9	5µg/mL Vol Std #12	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Vol Std #2	250µg/mL TAPD	Final Vol
Date	Conc.	02-02-12Q	02-02-12S	02-02-12M	02-02-12O	02-02-12P	02-02-12V	w/P&T H2O
Code	µg/L	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	mL
02-02-12AK	0.2	2	2	n/a	n/a	n/a	2	50
02-02-12AL	0.5	5	5	n/a	n/a	n/a	5	50
02-02-12AM	1	10	10	n/a	n/a	n/a	10	50
02-02-12AN	5	n/a	n/a	5	5	40	20	50
02-02-12AO	10	n/a	n/a	10	10	20	25	50
02-02-12AP	20	n/a	n/a	20	20	20	30	50
02-02-12AQ	40	n/a	n/a	40	40	100	35	50

2/02/12 RS.

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

		Expiration Date:		02/03/12						
		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 #1	50µg/mL Vol Std #2	50µg/mL Vol Std #3
Date	Conc.	02-02-12AD	02-02-12AH	02-02-12Z	02-02-12AB	02-02-12AG	02-02-12AE	02-02-12AA	02-02-12AC	02-02-12AF
Code	µg/L	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12
02-02-12AR	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a
02-02-12AS	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a
02-02-12AT	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a
02-02-12AU	5	n/a	n/a	5	5	10	n/a	5	5	5
02-02-12AV	10	n/a	n/a	10	10	25	n/a	10	10	10
02-02-12AW	20	n/a	n/a	20	20	40	n/a	20	20	20
02-02-12AX	40	n/a	n/a	40	40	80	n/a	40	40	40
02-02-12AY	100	n/a	n/a	100	100	100	n/a	100	100	100

250µg/mL TAPD	Final Vol
02-02-12AB	w/P&T H2O
Exp:02-08-12	mL
2	50
5	50
10	50
20	50
25	50
30	50
35	50
40	50

2/02/12 RS.

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

		Expiration Date:		02/03/12						
		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 #1	50µg/mL Vol Std #2	50µg/mL Vol Std #3
Date	Conc.	02-02-12Q	02-02-12U	02-02-12M	02-02-12O	02-02-12T	02-02-12R	02-02-12N	02-02-12P	02-02-12S
Code	µg/L	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12	Exp:02-08-12
02-02-12AZ	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a
02-02-12BA	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a
02-02-12BB	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a
02-02-12BC	5	n/a	n/a	5	5	10	n/a	5	5	5
02-02-12BD	10	n/a	n/a	10	10	25	n/a	10	10	10
02-02-12BE	40	n/a	n/a	40	40	80	n/a	40	40	40
02-02-12BF	100	n/a	n/a	100	100	100	n/a	100	100	100
02-02-12BG	200	n/a	n/a	200	200	125	n/a	200	200	200

250µg/mL TAPD	Final Vol
02-02-12AB	w/P&T H2O
Exp:02-08-12	mL
2	50
5	50
10	50
20	50
25	50
30	50
35	50
40	50

2/02/12 RS.

Gasoline Curve Preparation for 100mL Purge (water)-CHICO

		Expiration Date:	02/03/12
		50µg/mL Gasoline	Final Vol
Date	Conc.	01-26-12C	w/P&T H2O
Code	µg/L	Exp.01-03-12	mL
02-02-12BH	20	1	100
02-02-12BI	50	2.5	100
02-02-12BJ	100	5	100
02-02-12BK	300	15	100
02-02-12BL	600	30	100
02-02-12BM	800	40	100
02-02-12BN	1000	50	100

RS.

Injection Log

Directory: M:\CHICO\DATA\C120202

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0202C00T.D	1	25ug/mL BFB Std. 01-12-12	2uL	02/02/2012 14:16
2	1	0202C05W.D	1	Vol Std 02-02-12@0.3ug/L	Water 10mLw/ IS:01-31-	02/02/2012 17:16
3	1	0202C06W.D	1	Vol Std 02-02-12@0.5ug/L	Water 10mLw/ IS:01-31-	02/02/2012 17:53
4	1	0202C07W.D	1	Vol Std 02-02-12@1.0ug/L	Water 10mLw/ IS:01-31-	02/02/2012 18:30
5	1	0202C08W.D	1	Vol Std 02-02-12@5.0ug/L	Water 10mLw/ IS:01-31-	02/02/2012 19:08
6	1	0202C09W.D	1	Vol Std 02-02-12@10ug/L	Water 10mLw/ IS:01-31-	02/02/2012 19:45
7	1	0202C10W.D	1	Vol Std 02-02-12@40ug/L	Water 10mLw/ IS:01-31-	02/02/2012 20:22
8	1	0202C11W.D	1	Vol Std 02-02-12@100ug/L	Water 10mLw/ IS:01-31-	02/02/2012 20:59
9	1	0202C12W.D	1	Vol Std 02-02-12@200ug/L	Water 10mLw/ IS:01-31-	02/02/2012 21:36
10	1	0203C02W.D	1	25ug/mL BFB Std. 01-12-12	2uL	02/03/2012 10:44
11	1	0203C05W.D	1	120203A LCS-1WC	Water 10mLw/ IS&S:01-	02/03/2012 12:35
12	1	0215C00T.D	1	25ug/mL BFB Std. 02-13-12	2uL	02/15/2012 11:07
13	1	0215C03W.D	1	10ug/L Vol Std 02-15-12	Water 10mLw/ IS&S:01-	02/15/2012 12:41
14	1	0215C04W.D	1	120215A LCS-1WC	Water 10mLw/ IS&S:01-	02/15/2012 13:18
15	1	0215C10W.D	1	120215A BLK-1WC	Water 10mLw/ IS&S:01-	02/15/2012 17:00
16	1	0215C11W.D	1	AY54766W01	Water 10mLw/ IS&S:01-	02/15/2012 17:37
17	1	0215C12W.D	1	AY54765W01	Water 10mLw/ IS&S:01-	02/15/2012 18:14
18	1	0216C00T.D	1	25ug/mL BFB Std. 02-13-12	2uL	02/16/2012 08:23
19	1	0216C01W.D	1	10ug/L Vol Std 02-16-12	Water 10mLw/ IS&S:01-	02/16/2012 08:52
20	1	0216C02W.D	1	120216A LCS-1WC	Water 10mLw/ IS&S:01-	02/16/2012 09:29
21	1	0216C08W.D	1	120216A BLK-1WC	Water 10mLw/ IS&S:01-	02/16/2012 13:12
22	1	0216C14W.D	1	AY54765W02	Water 10mLw/ IS&S:01-	02/16/2012 16:54
23	1	0216C15W.D	1	AY54766W02	Water 10mLw/ IS&S:01-	02/16/2012 17:31

Injection Log

Directory: M:\CHICO\DATA\C120125

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0125C24T.D	1	25ug/mL BFB Std. 01-12-12	2uL	01/26/2012 16:30
2	1	0125C28W.D	1	VOC Mix Marker	Water 10mLw/ IS:12-06-	01/26/2012 18:55
3	1	0125C29W.D	1	Vol. Std. 01-26-12@20ug/L	Water 10mLw/ IS:12-06-	01/26/2012 19:32
4	1	0125C30W.D	1	Vol. Std. 01-26-12@50ug/L	Water 10mLw/ IS:12-06-	01/26/2012 20:09
5	1	0125C31W.D	1	Vol. Std. 01-26-12@100ug/L	Water 10mLw/ IS:12-06-	01/26/2012 20:46
6	1	0125C32W.D	1	Vol. Std. 01-26-12@300ug/L	Water 10mLw/ IS:12-06-	01/26/2012 21:24
7	1	0125C33W.D	1	Vol. Std. 01-26-12@600ug/L	Water 10mLw/ IS:12-06-	01/26/2012 22:01
8	1	0125C34W.D	1	Vol. Std. 01-26-12@800ug/L	Water 10mLw/ IS:12-06-	01/26/2012 22:38
9	1	0125C35W.D	1	Vol. Std. 01-26-12@1000ug/L	Water 10mLw/ IS:12-06-	01/26/2012 23:15
10	1	0125C38W.D	1	Second Source 01-26-12	Water 10mLw/ IS:12-06-	01/27/2012 01:06

Injection Log

Directory: M:\CHICO\DATA\C120202

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0215C00T.D	1	25ug/mL BFB Std. 02-13-12	2uL	02/15/2012 11:07
2	1	0215C06W.D	1	GAS CCV@300ug/L	Water 10mLw/ IS&S:01-	02/15/2012 14:32
3	1	0215C07W.D	1	GAS LCS@300ug/L	Water 10mLw/ IS&S:01-	02/15/2012 15:08
4	1	0215C10W.D	1	120215A BLK-1WC	Water 10mLw/ IS&S:01-	02/15/2012 17:00
5	1	0215C11W.D	1	AY54766W01	Water 10mLw/ IS&S:01-	02/15/2012 17:37
6	1	0215C12W.D	1	AY54765W01	Water 10mLw/ IS&S:01-	02/15/2012 18:14

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.22 U	0.5	0.22	0.11	ug/L	02/16/12	02/17/12	#602D-120216A-AY54765

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	49.0	98.0	80-120	02/16/12	02/17/12	#602D-120216A-AY54765

Comments: _____

Printed: 02/20/12 11:04:26 AM
APPL Standard LCS

Matrix Spike Recoveries

METALS

APPL ID: **120216W-54765 MS - 164019**

Sample ID: AY54765

Client ID: ES069

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	50.0	ND	49.7	49.3	99.4	98.6	0.8	20	80-120	02/16/12	02/17/12	02/16/12	02/17/12	164019	AY54765

Comments: _____

Printed: 02/20/12 11:38:11 AM
APPL MSD SCII

METALS
Sample Data

APPL, INC.

Metals Analysis

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Max Solmssen

Project: RED HILL/1022-015

ARF: 66972

Sample ID: ES069

APPL ID: AY54765

Sample Collection Date: 02/14/12

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.22 U	0.5	0.22	0.11	ug/L	1	02/16/12	02/17/12

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\12B17k00.B\052SMPL.D\052SMPL.D#
Date Acquired:	Feb 17 2012 04:38 pm
Operator:	NBS
Sample Name:	AY5476SW08
Misc Info:	120216A-3015
Vial Number:	3207
Current Method:	C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File:	C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update:	Feb 17 2012 11:34 am
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	0.00 ug/l	0.00	82.76	1000	
11 B	24.13 ug/l	26.81	3.75	1000	
23 Na	33580.00 ug/l	37307.38	1.18	25000	>Cal
24 Mg	10450.00 ug/l	11609.95	0.86	50000	
27 Al	17.94 ug/l	19.93	5.83	20000	
39 K	1909.00 ug/l	2120.90	0.95	20000	
44 Ca	13660.00 ug/l	15176.26	0.92	50000	
47 Ti	5.37 ug/l	5.96	145.16	1000	
51 V	0.25 ug/l	0.28	11.61	1000	
52 Cr	0.27 ug/l	0.30	7.68	1000	
55 Mn	773.10 ug/l	858.91	0.52	1000	
56 Fe	190.20 ug/l	211.31	0.95	20000	
59 Co	0.73 ug/l	0.81	2.19	1000	
60 Ni	1.17 ug/l	1.30	5.56	1000	
63 Cu	0.69 ug/l	0.76	0.56	1000	
65 Cu	0.65 ug/l	0.72	6.67	1000	
66 Zn	17.34 ug/l	19.26	0.77	1000	
75 As	0.03 ug/l	0.04	56.43	1000	
78 Se	-0.02 ug/l	-0.03	87.53	1000	
78 Se	0.04 ug/l	0.04	1155.40	1000	
88 Sr	80.26 ug/l	89.17	0.21	1000	
88 Sr	80.90 ug/l	89.88	1.08	1000	
95 Mo	-0.03 ug/l	-0.03	41.43	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	########	
107 Ag	-1.47 ug/l	-1.64	0.12	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	########	
111 Cd	0.08 ug/l	0.09	17.01	1000	
118 Sn	0.05 ug/l	0.05	47.56	########	
118 Sn	0.10 ug/l	0.11	141.73	########	
118 Sn	0.13 ug/l	0.15	159.65	1000	
121 Sb	0.01 ug/l	0.01	62.08	1000	
137 Ba	8.77 ug/l	9.75	0.73	1000	
205 Tl	0.03 ug/l	0.04	9.59	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	########	
207 (Pb)	-------- ug/l	#VALUE!	--------	########	
208 Pb	0.06 ug/l	0.07	4.66	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3299592.80	0.93	3286936.30	100.4	70 - 120	
45 Sc	1758250.10	0.33	2073738.10	84.8	70 - 120	
45 Sc	209178.42	0.30	232991.78	89.8	70 - 120	
45 Sc	3871885.80	0.28	4600080.50	84.2	70 - 120	
72 Ge	425854.53	0.96	503322.94	84.6	70 - 120	
72 Ge	142835.31	1.58	156968.59	91.0	70 - 120	
72 Ge	813192.19	0.62	974851.69	83.4	70 - 120	
115 In	3535327.30	1.16	4125245.50	85.7	70 - 120	
115 In	1441708.40	1.01	1614159.60	89.3	70 - 120	
115 In	5498718.00	0.44	6517391.00	84.4	70 - 120	
159 Tb	7489128.00	0.62	8959087.00	83.6	70 - 120	
165 Ho	7345573.50	0.90	8649903.00	84.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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

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: 66972 SDG: 66972
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 02/17/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:37	%R(1)	True CCV1	Found 12:21	%R(1)	True CCV1	Found 13:08	%R(1)	
Lead (Pb)	100	102.9	103	50	48.91	97.8	50	49.31	98.6	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: 66972 SDG: 66972

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 02/17/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:37	%R(1)	True CCV1	Found 14:42	%R(1)	True CCV1	Found 16:18	%R(1)	
Lead (Pb)	100	102.9	103	50	48.48	97.0	50	48.33	96.7	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: 66972 SDG: 66972

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 02/17/12 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:37	%R(1)	True CCV1	Found 17:52	%R(1)	True	Found	%R(1)	
Lead (Pb)	100	102.9	103	50	47.64	95.3				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.: 66972 SDG: 66972

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 02/17/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	12:15		12:28		13:21		14:55		15:02				
Lead (Pb)	.20	U	.20	U	.20	U	.20	U	.20	U	P		

A.P.P.L. INC.
3
BLANKS

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66972 SDG: 66972

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 02/17/12

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	12:15		16:32		18:06				15:02				
Lead (Pb)	.20	U	.20	U	.20	U			.20	U	P		

A.P.P.L. INC.
4
ICP INTERFERENCE CHECK SAMPLE

Lab Name:	A.P.P.L. INC.	Contract:	Environet, Inc.
ARF No.:	66972	SDG:	66972
ICP ID Number:	Optimus	ICS Source:	Environmental Express

Analysis Date: 02/17/12 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 12:48	Sol AB 12:55	%R(1)
Lead (Pb)		500	1.079	513.1	103

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

ES069

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66972 SDG: 66972

Analysis Date: 02/17/12 Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	257.187		0.0673104		277.500	92.7		

Comments:

02/17/12 16:38 AY54765W08

02/17/12 16:59 AY54765W08-A

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\055SMPL.D\055SMPL.D#
Date Acquired: Feb 17 2012 04:59 pm
Operator: NBS
Sample Name: AY54765W08-A
Misc Info: 120216A-3015
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
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	48.29	ug/l	53.65	1.12	1000	
11 B	329.70	ug/l	366.30	1.36	1000	
23 Na	53340.00	ug/l	59260.74	1.12	25000	>Cal
24 Mg	32190.00	ug/l	35763.09	0.71	50000	
27 Al	1960.00	ug/l	2177.56	1.36	20000	
39 K	6759.00	ug/l	7509.25	1.26	20000	
44 Ca	36740.00	ug/l	40818.14	1.71	50000	
47 Ti	233.50	ug/l	259.42	3.17	1000	
51 V	225.90	ug/l	250.97	0.96	1000	
52 Cr	231.10	ug/l	256.75	0.43	1000	
55 Mn	1002.00	ug/l	1113.22	1.16	1000	>Cal
56 Fe	1096.00	ug/l	1217.66	0.92	20000	
59 Co	216.60	ug/l	240.64	1.25	1000	
60 Ni	218.20	ug/l	242.42	1.61	1000	
63 Cu	209.10	ug/l	232.31	0.98	1000	
65 Cu	208.20	ug/l	231.31	0.96	1000	
66 Zn	419.20	ug/l	465.73	0.31	1000	
75 As	211.00	ug/l	234.42	0.18	1000	
78 Se	183.50	ug/l	203.87	0.65	1000	
78 Se	188.60	ug/l	209.53	0.31	1000	
88 Sr	316.30	ug/l	351.41	0.47	1000	
88 Sr	313.00	ug/l	347.74	2.81	1000	
95 Mo	230.00	ug/l	255.53	1.53	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	60.22	ug/l	66.90	17.75	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	42.63	ug/l	47.36	1.83	1000	
118 Sn	245.60	ug/l	272.86	0.24	#######	
118 Sn	249.10	ug/l	276.75	1.27	#######	
118 Sn	259.10	ug/l	287.86	1.25	1000	
121 Sb	252.80	ug/l	280.86	1.07	1000	
137 Ba	237.80	ug/l	264.20	1.59	1000	
205 Tl	227.40	ug/l	252.64	0.41	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	231.70	ug/l	257.42	0.83	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3304003.00	0.78	3286936.30	100.5	70 - 120	
45 Sc	1754158.10	0.36	2073738.10	84.6	70 - 120	
45 Sc	210839.89	0.54	232991.78	90.5	70 - 120	
45 Sc	3958915.80	0.91	4600080.50	86.1	70 - 120	
72 Ge	429693.06	1.20	503322.94	85.4	70 - 120	
72 Ge	140353.47	0.78	156968.59	89.4	70 - 120	
72 Ge	820370.31	0.86	974851.69	84.2	70 - 120	
115 In	3534973.50	0.48	4125245.50	85.7	70 - 120	
115 In	1429983.80	0.14	1614159.60	88.6	70 - 120	
115 In	5457927.00	1.39	6517391.00	83.7	70 - 120	
159 Tb	7572202.00	0.77	8959087.00	84.5	70 - 120	
165 Ho	7367653.50	0.71	8649903.00	85.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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**

A.P.P.L. INC.

9

ICP SERIAL DILUTION

CLIENT SAMPLE NO.

ES069

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 66972 SDG: 66972

Matrix: water

Analysis Date: 02/17/12 Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	%D	Q	M
Lead (Pb)	0.0673104		0.0117594		NA		

Comments:

02/17/12 16:38 AY54765W08

02/17/12 17:05 AY54765W08-1/5

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\056SMPL.D\056SMPL.D#
Date Acquired: Feb 17 2012 05:05 pm
Operator: NBS
Sample Name: AY54765W08-1/5
Misc Info: 120216A-3015
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
Sample Type: Sample
Prep Dil Factor: 5.56
Total Dil Factor: 5.56

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	0.00	ug/l	0.01	32.35	1000	
11 B	-56.94	ug/l	-316.36	0.71	1000	
23 Na	6968.00	ug/l	38714.21	1.36	25000	
24 Mg	2049.00	ug/l	11384.24	0.86	50000	
27 Al	3.58	ug/l	19.87	14.83	20000	
39 K	381.40	ug/l	2119.06	1.45	20000	
44 Ca	2768.00	ug/l	15379.01	2.09	50000	
47 Ti	0.12	ug/l	0.67	84.43	1000	
51 V	0.08	ug/l	0.47	5.09	1000	
52 Cr	0.05	ug/l	0.28	35.10	1000	
55 Mn	158.70	ug/l	881.74	1.67	1000	
56 Fe	39.27	ug/l	218.18	2.43	20000	
59 Co	0.14	ug/l	0.78	11.34	1000	
60 Ni	0.28	ug/l	1.56	13.41	1000	
63 Cu	0.08	ug/l	0.44	11.54	1000	
65 Cu	0.06	ug/l	0.31	35.72	1000	
66 Zn	4.35	ug/l	24.16	2.92	1000	
75 As	0.08	ug/l	0.44	18.98	1000	
78 Se	0.14	ug/l	0.76	6.86	1000	
78 Se	0.09	ug/l	0.52	106.00	1000	
88 Sr	16.23	ug/l	90.17	1.01	1000	
88 Sr	15.63	ug/l	86.84	1.05	1000	
95 Mo	-0.05	ug/l	-0.29	45.82	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	-1.07	ug/l	-5.96	1.67	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.01	ug/l	0.06	61.90	1000	
118 Sn	0.27	ug/l	1.50	7.96	#######	
118 Sn	0.50	ug/l	2.76	52.96	#######	
118 Sn	0.26	ug/l	1.46	6.91	1000	
121 Sb	1.58	ug/l	8.78	2.11	1000	
137 Ba	1.86	ug/l	10.34	0.18	1000	
205 Tl	0.00	ug/l	-0.03	95.61	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	0.00	ug/l	0.01	64.26	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3427575.80	0.62	3286936.30	104.3	70 - 120	
45 Sc	1920747.00	0.97	2073738.10	92.6	70 - 120	
45 Sc	222779.08	0.53	232991.78	95.6	70 - 120	
45 Sc	4076285.00	1.31	4600080.50	88.6	70 - 120	
72 Ge	472062.53	1.28	503322.94	93.8	70 - 120	
72 Ge	151216.80	1.03	156968.59	96.3	70 - 120	
72 Ge	871176.69	0.48	974851.69	89.4	70 - 120	
115 In	3917473.30	1.05	4125245.50	95.0	70 - 120	
115 In	1560971.30	0.99	1614159.60	96.7	70 - 120	
115 In	5934048.50	1.44	6517391.00	91.0	70 - 120	
159 Tb	8117014.00	1.18	8959087.00	90.6	70 - 120	
165 Ho	7974700.00	1.52	8649903.00	92.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\004CAL
Date Acquired: Feb 17 2012 11:03 am
Operator: NBS
Sample Name: Calibration Blank
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:01 am
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	3286936.00	A	56960.00	1.73
7	(Li)	194416.91	P	675.50	0.35
9	Be	11.11	P	6.94	62.45
11	B	131451.91	P	1339.00	1.02
23	Na	187917.20	P	183.80	0.10
24	Mg	121.12	P	22.20	18.33
27	Al	106.67	P	11.55	10.83
39	K	22642.38	P	678.70	3.00
44	Ca	821.22	P	44.34	5.40
45	Sc	2073738.00	A	18500.00	0.89
45	Sc	232991.80	A	2033.00	0.87
45	Sc	4600080.00	A	28990.00	0.63
47	Ti	5.78	P	4.07	70.49
51	V	90.22	P	4.68	5.19
52	Cr	171.56	P	13.88	8.09
55	Mn	168.89	P	4.07	2.41
56	Fe	2403.79	P	30.91	1.29
59	Co	33.78	P	0.77	2.28
60	Ni	17.33	P	3.53	20.35
63	Cu	457.79	P	9.08	1.98
65	Cu	239.56	P	10.01	4.18
66	Zn	236.01	P	25.44	10.78
72	Ge	503322.91	A	11210.00	2.23
72	Ge	156968.59	A	3951.00	2.52
72	Ge	974851.69	A	4984.00	0.51
75	As	28.78	P	2.14	7.45
78	Se	21.11	P	1.39	6.57
78	Se	96.22	P	7.17	7.45
88	Sr	70.00	P	8.82	12.60
88	Sr	503.36	P	26.04	5.17
95	Mo	920.07	P	30.55	3.32
106	(Cd)	3.33	P	3.33	99.99
107	Ag	10623.27	P	262.30	2.47
108	(Cd)	2.22	P	1.93	86.62
111	Cd	14.43	P	2.16	14.99
115	In	4125245.00	A	23900.00	0.58
115	In	1614160.00	A	4856.00	0.30
115	In	6517391.00	A	32780.00	0.50
118	Sn	681.15	P	61.95	9.09
118	Sn	314.46	P	23.41	7.44
118	Sn	1131.20	P	38.35	3.39
121	Sb	2454.74	P	86.96	3.54
137	Ba	57.78	P	28.74	49.74
159	Tb	8959087.00	A	24700.00	0.28
165	Ho	8649903.00	A	113900.00	1.32
205	Tl	514.47	P	8.39	1.63
206	(Pb)	180.01	P	8.82	4.90
207	(Pb)	178.90	P	10.71	5.99
208	Pb	788.93	P	42.21	5.35

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\005CALS.D\005CALS.D#
Date Acquired: Feb 17 2012 11:10 am
Operator: NBS
Sample Name: 120217 Standard 1
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:07 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3288002.00	A	40950.00	1.25	0.0000
7 (Li)	195973.00	P	1418.00	0.72	0.0000
9 Be	276.68	P	21.86	7.90	0.0000
11 B	127841.90	P	1269.00	0.99	0.0000
23 Na	188015.00	P	928.50	0.49	0.0000
24 Mg	735.60	P	42.21	5.74	0.0000
27 Al	173.34	P	17.64	10.18	0.0000
39 K	22708.14	P	209.90	0.92	0.0000
44 Ca	807.23	P	65.15	8.07	0.0000
45 Sc	2081372.00	A	10190.00	0.49	0.0000
45 Sc	232411.09	A	2072.00	0.89	0.0000
45 Sc	4578998.00	A	64370.00	1.41	0.0000
47 Ti	12.00	P	2.31	19.24	0.0000
51 V	227.12	P	18.20	8.01	0.0000
52 Cr	339.13	P	20.06	5.92	0.0000
55 Mn	290.67	P	18.48	6.36	0.0000
56 Fe	5537.57	P	30.68	0.55	0.0000
59 Co	293.79	P	26.71	9.09	0.0000
60 Ni	88.89	P	11.34	12.76	0.0000
63 Cu	590.69	P	26.03	4.41	0.0000
65 Cu	329.34	P	12.72	3.86	0.0000
66 Zn	369.79	P	12.39	3.35	0.0000
72 Ge	511576.09	A	4105.00	0.80	0.0000
72 Ge	160114.59	A	535.00	0.33	0.0000
72 Ge	981279.63	A	12640.00	1.29	0.0000
75 As	51.33	P	8.41	16.39	0.0000
78 Se	30.22	P	1.84	6.08	0.0000
78 Se	111.89	P	11.65	10.41	0.0000
88 Sr	262.23	P	32.38	12.35	0.0000
88 Sr	2071.33	P	39.78	1.92	0.0000
95 Mo	944.51	P	104.60	11.08	0.0000
106 (Cd)	14.44	P	5.09	35.25	0.0000
107 Ag	6593.99	P	147.10	2.23	0.0000
108 (Cd)	20.00	P	11.55	57.75	0.0000
111 Cd	184.39	P	30.11	16.33	0.0000
115 In	4194184.00	A	43490.00	1.04	0.0000
115 In	1629042.00	A	9851.00	0.60	0.0000
115 In	6549410.00	A	44730.00	0.68	0.0000
118 Sn	936.73	P	35.28	3.77	0.0000
118 Sn	384.46	P	46.71	12.15	0.0000
118 Sn	1462.36	P	57.20	3.91	0.0000
121 Sb	2542.54	P	65.02	2.56	0.0000
137 Ba	312.24	P	51.03	16.34	0.0000
159 Tb	8905389.00	A	117000.00	1.31	0.0000
165 Ho	8611801.00	A	44850.00	0.52	0.0000
205 Tl	1970.22	P	39.30	1.99	0.0000
206 (Pb)	727.82	P	33.72	4.63	0.0000
207 (Pb)	620.04	P	49.78	8.03	0.0000
208 Pb	2777.99	P	48.58	1.75	0.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Ranges(%)		Flag
6 Li	3288002.00	1.25	3286936.30	100.0	70 -	120	
45 Sc	2081372.00	0.49	2073738.10	100.4	70 -	120	
45 Sc	232411.14	0.89	232991.78	99.8	70 -	120	
45 Sc	4578998.00	1.41	4600080.50	99.5	70 -	120	
72 Ge	511576.13	0.80	503322.94	101.6	70 -	120	
72 Ge	160114.64	0.33	156968.59	102.0	70 -	120	
72 Ge	981279.63	1.29	974851.69	100.7	70 -	120	
115 In	4194184.00	1.04	4125245.50	101.7	70 -	120	
115 In	1629042.60	0.60	1614159.60	100.9	70 -	120	
115 In	6549409.50	0.68	6517391.00	100.5	70 -	120	
159 Tb	8905389.00	1.31	8959087.00	99.4	70 -	120	
165 Ho	8611801.00	0.52	8649903.00	99.6	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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\12B17k00.B\006CALS.D\006CALS.D#
Date Acquired: Feb 17 2012 11:17 am
Operator: NBS
Sample Name: 120217 Standard 2
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:14 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3323081.00	A	22380.00	0.67	0.0000
7 (Li)	196243.00	P	1183.00	0.60	1.0000
9 Be	2348.04	P	74.26	3.16	1.0000
11 B	121463.10	P	1432.00	1.18	-1.0000
23 Na	189893.80	P	922.50	0.49	1.0000
24 Mg	6056.98	P	56.83	0.94	1.0000
27 Al	973.40	P	20.27	2.08	1.0000
39 K	24787.99	P	640.10	2.58	1.0000
44 Ca	1071.23	P	49.19	4.59	-1.0000
45 Sc	2049326.00	A	12620.00	0.62	0.0000
45 Sc	228903.59	A	1475.00	0.64	0.0000
45 Sc	4527280.00	A	63390.00	1.40	0.0000
47 Ti	49.78	P	5.39	10.83	1.0000
51 V	1643.23	P	83.67	5.09	1.0000
52 Cr	1930.38	P	38.86	2.01	1.0000
55 Mn	1292.52	P	25.80	2.00	1.0000
56 Fe	33080.24	P	352.30	1.07	1.0000
59 Co	2662.95	P	60.86	2.29	1.0000
60 Ni	721.36	P	31.75	4.40	1.0000
63 Cu	2334.00	P	60.51	2.59	1.0000
65 Cu	1147.62	P	70.21	6.12	1.0000
66 Zn	652.47	P	11.34	1.74	1.0000
72 Ge	506595.00	A	4642.00	0.92	0.0000
72 Ge	157295.80	A	1801.00	1.15	0.0000
72 Ge	969521.50	A	1483.00	0.15	0.0000
75 As	293.78	P	2.84	0.97	1.0000
78 Se	161.11	P	10.31	6.40	1.0000
78 Se	124.33	P	8.35	6.72	1.0000
88 Sr	2071.33	P	35.33	1.71	1.0000
88 Sr	16270.90	P	345.90	2.13	1.0000
95 Mo	3330.51	P	61.20	1.84	1.0000
106 (Cd)	124.45	P	35.02	28.14	1.0000
107 Ag	7978.06	P	374.80	4.70	-1.0000
108 (Cd)	135.56	P	15.03	11.09	1.0000
111 Cd	1607.75	P	108.60	6.75	1.0000
115 In	4197171.00	A	21890.00	0.52	0.0000
115 In	1617924.00	A	17110.00	1.06	0.0000
115 In	6479687.00	A	16950.00	0.26	0.0000
118 Sn	3479.45	P	148.80	4.28	1.0000
118 Sn	1463.46	P	50.45	3.45	1.0000
118 Sn	5601.32	P	223.70	3.99	1.0000
121 Sb	5882.56	P	70.45	1.20	1.0000
137 Ba	2462.53	P	85.68	3.48	1.0000
159 Tb	8848858.00	A	64220.00	0.73	0.0000
165 Ho	8567898.00	A	96930.00	1.13	0.0000
205 Tl	15247.05	P	566.20	3.71	1.0000
206 (Pb)	5339.04	P	133.90	2.51	1.0000
207 (Pb)	4608.77	P	44.03	0.96	1.0000
208 Pb	21059.52	P	56.64	0.27	1.0000

ISTD Elements:

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3323081.30	0.67	3286936.30	101.1	70 -	120	
45 Sc	2049326.00	0.62	2073738.10	98.8	70 -	120	
45 Sc	228903.64	0.64	232991.78	98.2	70 -	120	
45 Sc	4527280.00	1.40	4600080.50	98.4	70 -	120	
72 Ge	506595.06	0.92	503322.94	100.7	70 -	120	
72 Ge	157295.83	1.15	156968.59	100.2	70 -	120	
72 Ge	969521.56	0.15	974851.69	99.5	70 -	120	
115 In	4197171.00	0.52	4125245.50	101.7	70 -	120	
115 In	1617923.60	1.06	1614159.60	100.2	70 -	120	
115 In	6479687.00	0.26	6517391.00	99.4	70 -	120	
159 Tb	8848858.00	0.73	8959087.00	98.8	70 -	120	
165 Ho	8567898.00	1.13	8649903.00	99.1	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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\12B17k00.B\007CALS.D\007CALS.D#
Date Acquired: Feb 17 2012 11:24 am
Operator: NBS
Sample Name: 120217 Standard 3
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:21 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3392440.00	A	23240.00	0.69	0.0000
7 (Li)	197706.50	P	539.10	0.27	0.6830
9 Be	117911.90	P	869.90	0.74	0.9999
11 B	181257.91	P	367.30	0.20	-0.9582
23 Na	474332.31	P	2067.00	0.44	1.0000
24 Mg	288426.91	P	2793.00	0.97	1.0000
27 Al	41734.93	P	528.40	1.27	0.9997
39 K	168476.70	P	806.30	0.48	0.9987
44 Ca	19157.79	P	692.50	3.61	0.9917
45 Sc	2025634.00	A	13150.00	0.65	0.0000
45 Sc	230424.50	A	3518.00	1.53	0.0000
45 Sc	4475610.00	A	50580.00	1.13	0.0000
47 Ti	2561.59	P	58.93	2.30	0.9993
51 V	75352.63	P	333.20	0.44	0.9999
52 Cr	85721.60	P	584.10	0.68	1.0000
55 Mn	55412.61	P	487.80	0.88	1.0000
56 Fe	1515391.00	A	14560.00	0.96	1.0000
59 Co	126958.10	P	747.20	0.59	1.0000
60 Ni	32869.59	P	144.40	0.44	1.0000
63 Cu	90245.37	P	773.70	0.86	0.9996
65 Cu	44224.62	P	533.30	1.21	1.0000
66 Zn	17605.06	P	258.70	1.47	0.9755
72 Ge	498720.19	A	4506.00	0.90	0.0000
72 Ge	158391.59	A	2978.00	1.88	0.0000
72 Ge	971106.69	A	9963.00	1.03	0.0000
75 As	12453.26	P	84.47	0.68	0.9999
78 Se	7386.79	P	37.84	0.51	0.9994
78 Se	1380.07	P	21.01	1.52	0.8944
88 Sr	95446.85	P	1223.00	1.28	1.0000
88 Sr	775836.88	P	11780.00	1.52	1.0000
95 Mo	140501.50	P	490.70	0.35	0.9965
106 (Cd)	6987.54	P	139.40	2.00	1.0000
107 Ag	186576.09	P	1022.00	0.55	-0.2485
108 (Cd)	5341.18	P	270.40	5.06	0.9995
111 Cd	77050.81	P	664.20	0.86	1.0000
115 In	4141907.00	A	39200.00	0.95	0.0000
115 In	1622224.00	A	13250.00	0.82	0.0000
115 In	6531652.00	A	89800.00	1.37	0.0000
118 Sn	139722.59	P	1467.00	1.05	0.9999
118 Sn	59956.93	P	945.00	1.58	0.9992
118 Sn	222252.80	P	4393.00	1.98	0.9997
121 Sb	280278.69	P	714.80	0.26	0.9974
137 Ba	119220.60	P	645.20	0.54	1.0000
159 Tb	8884036.00	A	83630.00	0.94	0.0000
165 Ho	8567789.00	A	7742.00	0.09	0.0000
205 Tl	723577.50	P	3971.00	0.55	1.0000
206 (Pb)	252953.20	P	4162.00	1.65	1.0000
207 (Pb)	218166.80	P	2311.00	1.06	1.0000
208 Pb	1006475.00	P	11040.00	1.10	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3392440.50	0.69	3286936.30	103.2	70 -	120	
45 Sc	2025634.30	0.65	2073738.10	97.7	70 -	120	
45 Sc	230424.47	1.53	232991.78	98.9	70 -	120	
45 Sc	4475609.50	1.13	4600080.50	97.3	70 -	120	
72 Ge	498720.22	0.90	503322.94	99.1	70 -	120	
72 Ge	158391.61	1.88	156968.59	100.9	70 -	120	
72 Ge	971106.69	1.03	974851.69	99.6	70 -	120	
115 In	4141906.50	0.95	4125245.50	100.4	70 -	120	
115 In	1622224.40	0.82	1614159.60	100.5	70 -	120	
115 In	6531652.50	1.37	6517391.00	100.2	70 -	120	
159 Tb	8884036.00	0.94	8959087.00	99.2	70 -	120	
165 Ho	8567789.00	0.09	8649903.00	99.1	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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\12B17k00.B\008CALS.D\008CALS.D#
Date Acquired: Feb 17 2012 11:30 am
Operator: NBS
Sample Name: 120217 Standard 4
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:27 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	3364927.00	A	46510.00	1.38	0.0000
7 (Li)	198597.09	P	1351.00	0.68	0.8094
9 Be	239825.59	P	2179.00	0.91	1.0000
11 B	247173.50	P	1420.00	0.57	0.9915
23 Na	819125.38	A	7053.00	0.86	1.0000
24 Mg	572845.50	P	2745.00	0.48	1.0000
27 Al	82940.97	P	801.00	0.97	1.0000
39 K	315244.19	P	2844.00	0.90	1.0000
44 Ca	36793.49	P	437.60	1.19	1.0000
45 Sc	2020405.00	A	14020.00	0.69	0.0000
45 Sc	227577.91	A	3582.00	1.57	0.0000
45 Sc	4454667.00	A	23390.00	0.53	0.0000
47 Ti	5116.52	P	70.00	1.37	1.0000
51 V	150534.91	P	734.30	0.49	1.0000
52 Cr	171246.00	P	870.30	0.51	1.0000
55 Mn	110677.70	P	677.90	0.61	1.0000
56 Fe	2972866.00	A	9037.00	0.30	1.0000
59 Co	252279.91	P	1205.00	0.48	1.0000
60 Ni	65247.07	P	284.00	0.44	1.0000
63 Cu	179569.50	P	2336.00	1.30	1.0000
65 Cu	87644.75	P	642.70	0.73	1.0000
66 Zn	34703.81	P	354.00	1.02	1.0000
72 Ge	498061.41	A	6648.00	1.33	0.0000
72 Ge	156109.80	A	999.70	0.64	0.0000
72 Ge	949782.19	A	2197.00	0.23	0.0000
75 As	24971.59	P	56.61	0.23	1.0000
78 Se	14821.49	P	156.20	1.05	1.0000
78 Se	2655.14	P	23.71	0.89	1.0000
88 Sr	190207.50	P	1501.00	0.79	1.0000
88 Sr	1599379.00	A	7601.00	0.48	1.0000
95 Mo	279702.69	P	2282.00	0.82	1.0000
106 (Cd)	14021.82	P	124.40	0.89	1.0000
107 Ag	364784.31	P	2162.00	0.59	0.9996
108 (Cd)	10219.62	P	137.20	1.34	1.0000
111 Cd	154794.59	P	889.60	0.57	1.0000
115 In	4078558.00	A	38180.00	0.94	0.0000
115 In	1619111.00	A	12010.00	0.74	0.0000
115 In	6410281.00	A	39840.00	0.62	0.0000
118 Sn	280977.31	P	1532.00	0.55	1.0000
118 Sn	120671.70	P	288.00	0.24	1.0000
118 Sn	443966.00	P	2584.00	0.58	1.0000
121 Sb	544182.31	P	3370.00	0.62	1.0000
137 Ba	237871.70	P	998.90	0.42	1.0000
159 Tb	8914148.00	A	50110.00	0.56	0.0000
165 Ho	8656185.00	A	135700.00	1.57	0.0000
205 Tl	1545139.00	A	18220.00	1.18	1.0000
206 (Pb)	501958.59	P	2703.00	0.54	1.0000
207 (Pb)	435834.59	P	3539.00	0.81	1.0000
208 Pb	2062501.00	A	13850.00	0.67	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3364926.80	1.38	3286936.30	102.4	70 -	120	
45 Sc	2020404.80	0.69	2073738.10	97.4	70 -	120	
45 Sc	227577.89	1.57	232991.78	97.7	70 -	120	
45 Sc	4454667.50	0.53	4600080.50	96.8	70 -	120	
72 Ge	498061.38	1.33	503322.94	99.0	70 -	120	
72 Ge	156109.81	0.64	156968.59	99.5	70 -	120	
72 Ge	949782.19	0.23	974851.69	97.4	70 -	120	
115 In	4078558.50	0.94	4125245.50	98.9	70 -	120	
115 In	1619111.40	0.74	1614159.60	100.3	70 -	120	
115 In	6410281.50	0.62	6517391.00	98.4	70 -	120	
159 Tb	8914148.00	0.56	8959087.00	99.5	70 -	120	
165 Ho	8656185.00	1.57	8649903.00	100.1	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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\12B17k00.B\009_QCS.D\009_QCS.D#
Date Acquired: Feb 17 2012 11:37 am
Operator: NBS
Sample Name: ICV 120217
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
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	101.30	ug/l	1.30	100.00	90 -	110	
11 B	110.60	ug/l	2.91	100.00	90 -	110	Fail
23 Na	2568.00	ug/l	1.65	2500.00	90 -	110	
24 Mg	2460.00	ug/l	0.38	2500.00	90 -	110	
27 Al	2540.00	ug/l	0.44	2500.00	90 -	110	
39 K	2483.00	ug/l	0.70	2500.00	90 -	110	
44 Ca	2458.00	ug/l	0.81	2500.00	90 -	110	
47 Ti	99.41	ug/l	1.04	100.00	90 -	110	
51 V	99.92	ug/l	0.41	100.00	90 -	110	
52 Cr	104.40	ug/l	0.65	100.00	90 -	110	
55 Mn	103.10	ug/l	0.18	100.00	90 -	110	
56 Fe	2470.00	ug/l	0.52	2500.00	90 -	110	
59 Co	102.20	ug/l	0.50	100.00	90 -	110	
60 Ni	101.30	ug/l	0.41	100.00	90 -	110	
63 Cu	99.07	ug/l	0.65	100.00	90 -	110	
65 Cu	99.43	ug/l	0.02	100.00	90 -	110	
66 Zn	101.10	ug/l	0.43	100.00	90 -	110	
75 As	97.53	ug/l	0.23	100.00	90 -	110	
78 Se	101.20	ug/l	0.59	100.00	90 -	110	
78 Se	103.10	ug/l	0.97	100.00	90 -	110	
88 Sr	99.40	ug/l	0.97	100.00	90 -	110	
88 Sr	100.20	ug/l	1.06	100.00	90 -	110	
95 Mo	97.52	ug/l	1.62	100.00	90 -	110	
106 (Cd)	--------	ug/l	--------	100.00	90 -	110	
107 Ag	48.81	ug/l	1.82	50.00	90 -	110	
108 (Cd)	--------	ug/l	--------	100.00	90 -	110	
111 Cd	101.40	ug/l	1.24	100.00	90 -	110	
118 Sn	45.61	ug/l	13.87	50.00	90 -	110	
118 Sn	47.47	ug/l	0.28	50.00	90 -	110	
118 Sn	44.68	ug/l	4.83	50.00	90 -	110	Fail
121 Sb	115.50	ug/l	1.71	100.00	90 -	110	Fail
137 Ba	98.73	ug/l	1.01	100.00	90 -	110	
205 Tl	103.30	ug/l	1.13	100.00	90 -	110	
206 (Pb)	--------	ug/l	--------	100.00	90 -	110	
207 (Pb)	--------	ug/l	--------	100.00	90 -	110	
208 Pb	102.90	ug/l	0.91	100.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3295707.30	0.30	3286936.30	100.3	70 -	120	
45 Sc	2013895.80	0.45	2073738.10	97.1	70 -	120	
45 Sc	227962.42	0.39	232991.78	97.8	70 -	120	
45 Sc	4335314.50	1.13	4600080.50	94.2	70 -	120	
72 Ge	497845.00	0.60	503322.94	98.9	70 -	120	
72 Ge	156422.89	1.46	156968.59	99.7	70 -	120	
72 Ge	931895.25	0.53	974851.69	95.6	70 -	120	
115 In	4099775.00	0.58	4125245.50	99.4	70 -	120	
115 In	1606478.60	0.28	1614159.60	99.5	70 -	120	
115 In	6301231.50	1.48	6517391.00	96.7	70 -	120	
159 Tb	8653181.00	0.89	8959087.00	96.6	70 -	120	
165 Ho	8388104.00	0.39	8649903.00	97.0	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.B\004CALB.D\004CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\013_CCB.D\013_CCB.D#
Date Acquired: Feb 17 2012 12:15 pm
Operator: NBS
Sample Name: ICB 120217
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	########	
9 Be	0.00	ug/l	463.14	0.12	
11 B	-49.16	ug/l	0.96	15.00	
23 Na	1.63	ug/l	898.96	77.10	
24 Mg	-0.27	ug/l	44.67	7.50	
27 Al	-0.25	ug/l	152.69	3.96	
39 K	-25.94	ug/l	8.11	19.20	
44 Ca	-53.77	ug/l	6.15	90.00	
47 Ti	-0.08	ug/l	34.42	0.78	
51 V	-0.03	ug/l	13.22	0.21	
52 Cr	-0.04	ug/l	25.84	0.12	
55 Mn	-0.02	ug/l	69.03	0.18	
56 Fe	-0.52	ug/l	8.70	40.80	
59 Co	0.00	ug/l	62.00	0.09	
60 Ni	-0.01	ug/l	170.06	0.48	
63 Cu	-0.07	ug/l	7.92	0.39	
65 Cu	-0.11	ug/l	7.68	0.39	
66 Zn	-0.39	ug/l	3.98	6.90	
75 As	-0.07	ug/l	7.88	0.27	
78 Se	-0.06	ug/l	4.84	0.30	
78 Se	-0.32	ug/l	42.07	0.30	
88 Sr	0.01	ug/l	93.69	0.03	
88 Sr	0.00	ug/l	1039.10	0.03	
95 Mo	-0.23	ug/l	0.50	0.21	
106 (Cd)	--------	ug/l	--------	########	
107 Ag	-1.45	ug/l	0.28	0.09	
108 (Cd)	--------	ug/l	--------	########	
111 Cd	0.00	ug/l	112.34	0.06	
118 Sn	-0.17	ug/l	5.12	########	
118 Sn	-0.19	ug/l	13.79	########	
118 Sn	-0.18	ug/l	3.88	0.30	
121 Sb	-0.14	ug/l	8.24	0.03	
137 Ba	0.00	ug/l	341.54	0.12	
205 Tl	0.01	ug/l	112.54	0.03	
206 (Pb)	--------	ug/l	--------	########	
207 (Pb)	--------	ug/l	--------	########	
208 Pb	0.02	ug/l	18.06	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3872208.50	1.37	3286936.30	117.8	70 - 120	
45 Sc	2157218.80	0.54	2073738.10	104.0	70 - 120	
45 Sc	250629.80	2.33	232991.78	107.6	70 - 120	
45 Sc	4791490.00	0.86	4600080.50	104.2	70 - 120	
72 Ge	548479.69	0.88	503322.94	109.0	70 - 120	
72 Ge	172071.61	1.30	156968.59	109.6	70 - 120	
72 Ge	1017273.40	1.88	974851.69	104.4	70 - 120	
115 In	4428800.50	0.51	4125245.50	107.4	70 - 120	
115 In	1771068.40	0.09	1614159.60	109.7	70 - 120	
115 In	6884173.50	1.78	6517391.00	105.6	70 - 120	
159 Tb	9299340.00	0.79	8959087.00	103.8	70 - 120	
165 Ho	8964031.00	1.33	8649903.00	103.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\014_CCV.D\014_CCV.D#
Date Acquired: Feb 17 2012 12:21 pm
Operator: NBS
Sample Name: CCV 120217
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
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	50.17	ug/l	0.47	50.00	90 - 110	
11 B	17.44	ug/l	9.42	50.00	90 - 110	Fail
23 Na	1103.00	ug/l	0.84	1250.00	90 - 110	Fail
24 Mg	2469.00	ug/l	0.76	2500.00	90 - 110	
27 Al	1009.00	ug/l	2.35	1000.00	90 - 110	
39 K	977.70	ug/l	0.60	1000.00	90 - 110	
44 Ca	2476.00	ug/l	1.15	2500.00	90 - 110	
47 Ti	48.29	ug/l	0.83	50.00	90 - 110	
51 V	48.80	ug/l	0.92	50.00	90 - 110	
52 Cr	48.75	ug/l	0.35	50.00	90 - 110	
55 Mn	49.44	ug/l	0.54	50.00	90 - 110	
56 Fe	998.20	ug/l	1.18	1000.00	90 - 110	
59 Co	48.75	ug/l	1.83	50.00	90 - 110	
60 Ni	48.55	ug/l	1.69	50.00	90 - 110	
63 Cu	48.37	ug/l	0.89	50.00	90 - 110	
65 Cu	48.80	ug/l	0.90	50.00	90 - 110	
66 Zn	49.81	ug/l	0.41	50.00	90 - 110	
75 As	49.41	ug/l	1.55	50.00	90 - 110	
78 Se	49.15	ug/l	0.94	50.00	90 - 110	
78 Se	49.80	ug/l	0.73	50.00	90 - 110	
88 Sr	50.57	ug/l	0.24	50.00	90 - 110	
88 Sr	48.19	ug/l	0.75	50.00	90 - 110	
95 Mo	49.30	ug/l	0.47	50.00	90 - 110	
106 (Cd)	--------	ug/l	--------	50.00	90 - 110	
107 Ag	24.46	ug/l	0.45	25.00	90 - 110	
108 (Cd)	--------	ug/l	--------	50.00	90 - 110	
111 Cd	49.93	ug/l	0.87	50.00	90 - 110	
118 Sn	49.19	ug/l	0.92	---	##### - #####	
118 Sn	49.57	ug/l	0.61	---	##### - #####	
118 Sn	49.58	ug/l	0.79	50.00	90 - 110	
121 Sb	50.64	ug/l	0.38	50.00	90 - 110	
137 Ba	49.63	ug/l	1.19	50.00	90 - 110	
205 Tl	47.15	ug/l	1.23	50.00	90 - 110	
206 (Pb)	--------	ug/l	--------	50.00	90 - 110	
207 (Pb)	--------	ug/l	--------	50.00	90 - 110	
208 Pb	48.91	ug/l	0.95	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3443250.50	0.29	3286936.30	104.8	70 - 120	
45 Sc	2029072.90	1.10	2073738.10	97.8	70 - 120	
45 Sc	236620.75	0.68	232991.78	101.6	70 - 120	
45 Sc	4437163.00	1.20	4600080.50	96.5	70 - 120	
72 Ge	504052.34	1.32	503322.94	100.1	70 - 120	
72 Ge	158568.81	1.26	156968.59	101.0	70 - 120	
72 Ge	954561.13	1.34	974851.69	97.9	70 - 120	
115 In	4172031.80	0.80	4125245.50	101.1	70 - 120	
115 In	1646834.40	0.82	1614159.60	102.0	70 - 120	
115 In	6427908.00	1.03	6517391.00	98.6	70 - 120	
159 Tb	8845130.00	1.92	8959087.00	98.7	70 - 120	
165 Ho	8554626.00	1.70	8649903.00	98.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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\12B17k00.B\015_CCB.D\015_CCB.D#
Date Acquired: Feb 17 2012 12:28 pm
Operator: NBS
Sample Name: CCB 120217
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	#######	
9 Be	0.02	ug/l	27.68	0.12	
11 B	-52.39	ug/l	1.17	15.00	
23 Na	-0.94	ug/l	3382.70	77.10	
24 Mg	0.52	ug/l	21.78	7.50	
27 Al	-0.62	ug/l	25.77	3.96	
39 K	-20.81	ug/l	40.68	19.20	
44 Ca	-54.52	ug/l	8.93	90.00	
47 Ti	-0.09	ug/l	27.21	0.78	
51 V	-0.03	ug/l	17.02	0.21	
52 Cr	-0.04	ug/l	21.06	0.12	
55 Mn	0.00	ug/l	224.47	0.18	
56 Fe	-0.42	ug/l	18.40	40.80	
59 Co	0.00	ug/l	97.96	0.09	
60 Ni	0.01	ug/l	24.95	0.48	
63 Cu	-0.08	ug/l	13.36	0.39	
65 Cu	-0.09	ug/l	15.78	0.39	
66 Zn	-0.40	ug/l	7.40	6.90	
75 As	-0.03	ug/l	15.83	0.27	
78 Se	0.07	ug/l	24.20	0.30	
78 Se	-0.26	ug/l	137.30	0.30	
88 Sr	0.00	ug/l	502.13	0.03	
88 Sr	0.01	ug/l	30.39	0.03	
95 Mo	0.00	ug/l	1305.80	0.21	
106 (Cd)	--------	ug/l	--------	#######	
107 Ag	-1.45	ug/l	0.15	0.09	
108 (Cd)	--------	ug/l	--------	#######	
111 Cd	0.01	ug/l	20.58	0.06	
118 Sn	-0.14	ug/l	6.70	#######	
118 Sn	-0.16	ug/l	3.32	#######	
118 Sn	-0.16	ug/l	5.80	0.30	
121 Sb	0.28	ug/l	4.97	0.03	Fail
137 Ba	0.01	ug/l	1.53	0.12	
205 Tl	0.01	ug/l	14.11	0.03	
206 (Pb)	--------	ug/l	--------	#######	
207 (Pb)	--------	ug/l	--------	#######	
208 Pb	0.02	ug/l	16.23	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3847319.80	0.74	3286936.30	117.0	70 - 120	
45 Sc	2212217.80	1.17	2073738.10	106.7	70 - 120	
45 Sc	248691.94	4.05	232991.78	106.7	70 - 120	
45 Sc	4861487.00	0.25	4600080.50	105.7	70 - 120	
72 Ge	552619.31	0.16	503322.94	109.8	70 - 120	
72 Ge	172835.83	2.57	156968.59	110.1	70 - 120	
72 Ge	1037928.00	0.97	974851.69	106.5	70 - 120	
115 In	4450847.50	0.87	4125245.50	107.9	70 - 120	
115 In	1751170.90	4.18	1614159.60	108.5	70 - 120	
115 In	6915519.00	0.49	6517391.00	106.1	70 - 120	
159 Tb	9439849.00	1.64	8959087.00	105.4	70 - 120	
165 Ho	9157985.00	0.89	8649903.00	105.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\018SMPL.D\018SMPL.D#
Date Acquired: Feb 17 2012 12:48 pm
Operator: NBS
Sample Name: ICSA 120217
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
Sample Type: Sample
Prep Dil Factor: 1.00
Total Dil Factor: 1.00

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	0.15	ug/l	0.15	16.42	1000	
11 B	-30.21	ug/l	-30.21	1.94	1000	
23 Na	94970.00	ug/l	94970.00	1.39	25000	>Cal
24 Mg	96330.00	ug/l	96330.00	2.07	50000	>Cal
27 Al	102700.00	ug/l	102700.00	2.78	20000	>Cal
39 K	98980.00	ug/l	98980.00	1.52	20000	>Cal
44 Ca	102500.00	ug/l	102500.00	0.65	50000	>Cal
47 Ti	2000.00	ug/l	2000.00	0.97	1000	>Cal
51 V	1.04	ug/l	1.04	7.15	1000	
52 Cr	1.87	ug/l	1.87	1.97	1000	
55 Mn	6.22	ug/l	6.22	0.57	1000	
56 Fe	93560.00	ug/l	93560.00	0.46	20000	>Cal
59 Co	2.00	ug/l	2.00	1.15	1000	
60 Ni	2.34	ug/l	2.34	5.09	1000	
63 Cu	1.42	ug/l	1.42	0.98	1000	
65 Cu	1.43	ug/l	1.43	4.00	1000	
66 Zn	3.02	ug/l	3.02	7.03	1000	
75 As	1.03	ug/l	1.03	3.29	1000	
78 Se	0.76	ug/l	0.76	4.31	1000	
78 Se	1.05	ug/l	1.05	12.72	1000	
88 Sr	1.30	ug/l	1.30	5.56	1000	
88 Sr	1.22	ug/l	1.22	2.00	1000	
95 Mo	2003.00	ug/l	2003.00	1.24	1000	>Cal
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	-1.17	ug/l	-1.17	0.31	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.56	ug/l	0.56	27.23	1000	
118 Sn	0.39	ug/l	0.39	4.75	#######	
118 Sn	0.49	ug/l	0.49	3.11	#######	
118 Sn	0.47	ug/l	0.47	5.51	1000	
121 Sb	4.09	ug/l	4.09	3.06	1000	
137 Ba	3.03	ug/l	3.03	2.56	1000	
205 Tl	0.78	ug/l	0.78	1.64	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	1.08	ug/l	1.08	1.13	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2989809.30	0.12	3286936.30	91.0	70 - 120	
45 Sc	1915278.50	1.14	2073738.10	92.4	70 - 120	
45 Sc	224536.19	1.35	232991.78	96.4	70 - 120	
45 Sc	4098515.00	0.64	4600080.50	89.1	70 - 120	
72 Ge	486450.19	0.43	503322.94	96.6	70 - 120	
72 Ge	161397.44	0.60	156968.59	102.8	70 - 120	
72 Ge	986549.88	0.91	974851.69	101.2	70 - 120	
115 In	3856717.50	0.62	4125245.50	93.5	70 - 120	
115 In	1548234.50	1.42	1614159.60	95.9	70 - 120	
115 In	6089902.50	0.85	6517391.00	93.4	70 - 120	
159 Tb	8331652.00	0.33	8959087.00	93.0	70 - 120	
165 Ho	8003464.50	0.69	8649903.00	92.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.B\004CALB.D\004CALB.D#

8 :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-AB QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\019ICSB.D\019ICSB.D#
Date Acquired: Feb 17 2012 12:55 pm
Acq. Method: 62A0217A.M
Operator: NBS
Sample Name: ICSAB 120217
Misc Info:
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal. Update: Feb 17 2012 11:34 am
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	228.90	0.56	250	91.6	80 - 120	
11 B	45	3	-39.32	1.99	---		-	
23 Na	45	2	94940.00	0.32	---		-	
24 Mg	45	2	96770.00	0.83	---		-	
27 Al	45	2	103300.00	0.50	---		-	
39 K	45	2	98790.00	0.72	---		-	
44 Ca	45	2	102500.00	0.58	---		-	
47 Ti	45	2	2012.00	0.10	2000	100.6	80 - 120	
51 V	45	2	249.50	0.54	250	99.8	80 - 120	
52 Cr	45	2	254.90	0.43	250	102.0	80 - 120	
55 Mn	45	2	261.60	0.97	250	104.6	80 - 120	
56 Fe	45	2	95130.00	0.45	---		-	
59 Co	45	2	238.00	0.53	250	95.2	80 - 120	
60 Ni	45	2	468.00	0.75	500	93.6	80 - 120	
63 Cu	45	2	231.30	1.50	250	92.5	80 - 120	
65 Cu	45	2	231.70	0.65	250	92.7	80 - 120	
66 Zn	115	2	543.50	0.80	500	108.7	80 - 120	
75 As	115	2	229.80	0.34	250	91.9	80 - 120	
78 Se	115	1	225.60	1.25	250	90.2	80 - 120	
78 Se	115	2	225.50	1.30	250	90.2	80 - 120	
88 Sr	115	2	1.42	5.53	---		-	
88 Sr	115	3	1.34	1.57	---		-	
95 Mo	115	3	2233.00	0.64	2000	111.7	80 - 120	
106 (Cd)	---	3	---	---	---		-	
107 Ag	115	3	551.00	13.86	500	110.2	80 - 120	
108 (Cd)	---	3	---	---	---		-	
111 Cd	115	3	470.50	0.37	500	94.1	80 - 120	
118 Sn	115	1	0.47	8.52	---		-	
118 Sn	115	2	0.55	13.18	---		-	
118 Sn	115	3	0.51	3.18	---		-	
121 Sb	115	3	279.70	0.18	250	111.9	80 - 120	
137 Ba	115	3	252.60	0.72	250	101.0	80 - 120	
205 Tl	159	3	257.50	1.07	250	103.0	80 - 120	
206 (Pb)	---	3	---	---	---		-	
207 (Pb)	---	3	---	---	---		-	
208 Pb	159	3	513.10	1.15	500	102.6	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2880914	1.03	3286936	87.6	70 - 120	
45 Sc	1	1913843	0.13	2073738	92.3	70 - 120	
45 Sc	2	219139	0.70	232992	94.1	70 - 120	
45 Sc	3	4050462	0.13	4600081	88.1	70 - 120	
72 Ge	1	489242	1.43	503323	97.2	70 - 120	
72 Ge	2	156979	1.36	156969	100.0	70 - 120	
72 Ge	3	971761	0.86	974852	99.7	70 - 120	
115 In	1	3879106	0.91	4125246	94.0	70 - 120	
115 In	2	1545241	0.63	1614160	95.7	70 - 120	
115 In	3	6110252	0.29	6517391	93.8	70 - 120	
159 Tb	3	8422932	0.97	8959087	94.0	70 - 120	
165 Ho	3	8155395	1.00	8649903	94.3	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2_hmi.u
Tune File# 2 c:\icpchem\1\7500\he_hmi.u
Tune File# 3 c:\icpchem\1\7500\ng_hmi.u

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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\12B17k00.B\021_CCV.D\021_CCV.D#
Date Acquired: Feb 17 2012 01:08 pm
Operator: NBS
Sample Name: CCV 120217
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
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	47.83	ug/l	0.43	50.00	90 -	110	
11 B	-4.63	ug/l	56.23	50.00	90 -	110	Fail
23 Na	1105.00	ug/l	1.74	1250.00	90 -	110	Fail
24 Mg	2513.00	ug/l	0.79	2500.00	90 -	110	
27 Al	1020.00	ug/l	1.51	1000.00	90 -	110	
39 K	996.10	ug/l	1.55	1000.00	90 -	110	
44 Ca	2442.00	ug/l	1.34	2500.00	90 -	110	
47 Ti	49.21	ug/l	3.15	50.00	90 -	110	
51 V	49.77	ug/l	0.50	50.00	90 -	110	
52 Cr	49.55	ug/l	1.45	50.00	90 -	110	
55 Mn	49.88	ug/l	0.98	50.00	90 -	110	
56 Fe	1007.00	ug/l	0.43	1000.00	90 -	110	
59 Co	49.71	ug/l	0.78	50.00	90 -	110	
60 Ni	49.53	ug/l	1.31	50.00	90 -	110	
63 Cu	49.50	ug/l	0.70	50.00	90 -	110	
65 Cu	50.01	ug/l	0.32	50.00	90 -	110	
66 Zn	48.57	ug/l	0.99	50.00	90 -	110	
75 As	48.52	ug/l	1.28	50.00	90 -	110	
78 Se	48.61	ug/l	1.99	50.00	90 -	110	
78 Se	49.30	ug/l	0.60	50.00	90 -	110	
88 Sr	49.51	ug/l	0.38	50.00	90 -	110	
88 Sr	47.91	ug/l	0.33	50.00	90 -	110	
95 Mo	49.96	ug/l	0.09	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	24.62	ug/l	0.59	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	49.36	ug/l	1.02	50.00	90 -	110	
118 Sn	49.20	ug/l	1.58	---	##### -	#####	
118 Sn	50.19	ug/l	0.65	---	##### -	#####	
118 Sn	49.61	ug/l	0.55	50.00	90 -	110	
121 Sb	51.78	ug/l	1.28	50.00	90 -	110	
137 Ba	49.40	ug/l	0.24	50.00	90 -	110	
205 Tl	47.30	ug/l	1.12	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	49.31	ug/l	0.57	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3170588.00	0.94	3286936.30	96.5	70 -	120	
45 Sc	2053628.40	0.77	2073738.10	99.0	70 -	120	
45 Sc	235034.88	0.98	232991.78	100.9	70 -	120	
45 Sc	4481841.50	0.51	4600080.50	97.4	70 -	120	
72 Ge	515151.63	0.43	503322.94	102.4	70 -	120	
72 Ge	164304.34	0.99	156968.59	104.7	70 -	120	
72 Ge	972672.06	0.79	974851.69	99.8	70 -	120	
115 In	4335390.50	0.84	4125245.50	105.1	70 -	120	
115 In	1703871.60	0.51	1614159.60	105.6	70 -	120	
115 In	6637251.00	0.49	6517391.00	101.8	70 -	120	
159 Tb	9257598.00	1.37	8959087.00	103.3	70 -	120	
165 Ho	8959457.00	1.10	8649903.00	103.6	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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\12B17K00.B\023_CCB.D\023_CCB.D#
Date Acquired: Feb 17 2012 01:21 pm
Operator: NBS
Sample Name: CCB 120217
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	########	
9 Be	0.01	ug/l	27.99	0.12	
11 B	-69.24	ug/l	0.42	15.00	
23 Na	-59.46	ug/l	19.46	77.10	
24 Mg	-0.11	ug/l	123.14	7.50	
27 Al	0.60	ug/l	157.70	3.96	
39 K	-38.46	ug/l	4.89	19.20	
44 Ca	-66.08	ug/l	4.97	90.00	
47 Ti	-0.07	ug/l	48.97	0.78	
51 V	-0.04	ug/l	13.62	0.21	
52 Cr	-0.05	ug/l	23.49	0.12	
55 Mn	-0.02	ug/l	42.77	0.18	
56 Fe	-0.14	ug/l	284.57	40.80	
59 Co	0.00	ug/l	123.26	0.09	
60 Ni	0.00	ug/l	200.03	0.48	
63 Cu	-0.08	ug/l	4.02	0.39	
65 Cu	-0.11	ug/l	17.24	0.39	
66 Zn	-0.37	ug/l	10.13	6.90	
75 As	-0.06	ug/l	3.63	0.27	
78 Se	-0.02	ug/l	19.31	0.30	
78 Se	-0.28	ug/l	22.39	0.30	
88 Sr	0.00	ug/l	161.13	0.03	
88 Sr	0.00	ug/l	103.53	0.03	
95 Mo	0.09	ug/l	15.06	0.21	
106 (Cd)	--------	ug/l	--------	########	
107 Ag	-1.41	ug/l	0.65	0.09	
108 (Cd)	--------	ug/l	--------	########	
111 Cd	0.00	ug/l	546.38	0.06	
118 Sn	-0.13	ug/l	7.48	########	
118 Sn	-0.16	ug/l	7.92	########	
118 Sn	-0.16	ug/l	2.79	0.30	
121 Sb	-0.07	ug/l	12.88	0.03	
137 Ba	0.00	ug/l	289.68	0.12	
205 Tl	0.02	ug/l	8.83	0.03	
206 (Pb)	--------	ug/l	--------	########	
207 (Pb)	--------	ug/l	--------	########	
208 Pb	0.02	ug/l	3.84	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3677381.30	1.51	3286936.30	111.9	70 - 120	
45 Sc	2185771.30	0.48	2073738.10	105.4	70 - 120	
45 Sc	256225.41	1.29	232991.78	110.0	70 - 120	
45 Sc	4774950.00	1.16	4600080.50	103.8	70 - 120	
72 Ge	552348.69	1.04	503322.94	109.7	70 - 120	
72 Ge	172358.61	0.87	156968.59	109.8	70 - 120	
72 Ge	1042356.90	1.74	974851.69	106.9	70 - 120	
115 In	4540083.50	1.22	4125245.50	110.1	70 - 120	
115 In	1814411.10	0.68	1614159.60	112.4	70 - 120	
115 In	7050765.50	0.22	6517391.00	108.2	70 - 120	
159 Tb	9701602.00	0.64	8959087.00	108.3	70 - 120	
165 Ho	9449873.00	0.75	8649903.00	109.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17K00.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

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\035_CCV.D\035_CCV.D#
Date Acquired: Feb 17 2012 02:42 pm
Operator: NBS
Sample Name: CCV 120217
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
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	52.24	ug/l	1.16	50.00	90 - 110	
11 B	10.33	ug/l	8.37	50.00	90 - 110	Fail
23 Na	1134.00	ug/l	1.70	1250.00	90 - 110	
24 Mg	2522.00	ug/l	0.74	2500.00	90 - 110	
27 Al	1025.00	ug/l	0.82	1000.00	90 - 110	
39 K	994.90	ug/l	1.19	1000.00	90 - 110	
44 Ca	2440.00	ug/l	2.47	2500.00	90 - 110	
47 Ti	48.02	ug/l	4.71	50.00	90 - 110	
51 V	47.75	ug/l	1.29	50.00	90 - 110	
52 Cr	47.66	ug/l	0.93	50.00	90 - 110	
55 Mn	48.65	ug/l	0.83	50.00	90 - 110	
56 Fe	981.30	ug/l	1.68	1000.00	90 - 110	
59 Co	47.70	ug/l	1.09	50.00	90 - 110	
60 Ni	47.01	ug/l	1.17	50.00	90 - 110	
63 Cu	47.03	ug/l	0.44	50.00	90 - 110	
65 Cu	47.38	ug/l	1.02	50.00	90 - 110	
66 Zn	49.42	ug/l	0.26	50.00	90 - 110	
75 As	48.50	ug/l	0.98	50.00	90 - 110	
78 Se	49.90	ug/l	1.12	50.00	90 - 110	
78 Se	49.62	ug/l	0.80	50.00	90 - 110	
88 Sr	50.11	ug/l	0.65	50.00	90 - 110	
88 Sr	47.53	ug/l	1.00	50.00	90 - 110	
95 Mo	48.48	ug/l	1.91	50.00	90 - 110	
106 (Cd)	--------	ug/l	--------	50.00	90 - 110	
107 Ag	23.97	ug/l	0.75	25.00	90 - 110	
108 (Cd)	--------	ug/l	--------	50.00	90 - 110	
111 Cd	49.00	ug/l	2.17	50.00	90 - 110	
118 Sn	48.97	ug/l	2.06	---	##### - #####	
118 Sn	49.12	ug/l	0.84	---	##### - #####	
118 Sn	48.30	ug/l	1.03	50.00	90 - 110	
121 Sb	48.76	ug/l	1.16	50.00	90 - 110	
137 Ba	48.85	ug/l	1.41	50.00	90 - 110	
205 Tl	46.96	ug/l	0.74	50.00	90 - 110	
206 (Pb)	--------	ug/l	--------	50.00	90 - 110	
207 (Pb)	--------	ug/l	--------	50.00	90 - 110	
208 Pb	48.48	ug/l	0.22	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3592764.30	1.43	3286936.30	109.3	70 - 120	
45 Sc	2079797.40	2.19	2073738.10	100.3	70 - 120	
45 Sc	244987.39	0.65	232991.78	105.1	70 - 120	
45 Sc	4461842.50	0.30	4600080.50	97.0	70 - 120	
72 Ge	502635.91	1.01	503322.94	99.9	70 - 120	
72 Ge	163971.67	2.27	156968.59	104.5	70 - 120	
72 Ge	948230.94	0.17	974851.69	97.3	70 - 120	
115 In	4189504.00	0.90	4125245.50	101.6	70 - 120	
115 In	1677310.10	0.19	1614159.60	103.9	70 - 120	
115 In	6473669.00	1.01	6517391.00	99.3	70 - 120	
159 Tb	8952796.00	0.26	8959087.00	99.9	70 - 120	
165 Ho	8633278.00	0.86	8649903.00	99.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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\12B17k00.B\037_CCB.D\037_CCB.D#
Date Acquired: Feb 17 2012 02:55 pm
Operator: NBS
Sample Name: CCB 120217
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	########	
9 Be	0.00	ug/l	53.40	0.12	
11 B	-68.75	ug/l	0.50	15.00	
23 Na	-0.74	ug/l	917.09	77.10	
24 Mg	0.21	ug/l	72.78	7.50	
27 Al	-0.39	ug/l	87.47	3.96	
39 K	-21.99	ug/l	16.25	19.20	
44 Ca	-70.13	ug/l	0.90	90.00	
47 Ti	-0.08	ug/l	16.51	0.78	
51 V	-0.04	ug/l	16.46	0.21	
52 Cr	-0.05	ug/l	14.55	0.12	
55 Mn	0.00	ug/l	345.01	0.18	
56 Fe	-0.52	ug/l	6.42	40.80	
59 Co	0.00	ug/l	75.59	0.09	
60 Ni	0.00	ug/l	330.89	0.48	
63 Cu	-0.08	ug/l	7.29	0.39	
65 Cu	-0.11	ug/l	14.02	0.39	
66 Zn	-0.38	ug/l	9.23	6.90	
75 As	-0.07	ug/l	10.39	0.27	
78 Se	-0.03	ug/l	63.00	0.30	
78 Se	-0.66	ug/l	22.31	0.30	
88 Sr	0.00	ug/l	74.35	0.03	
88 Sr	0.00	ug/l	199.66	0.03	
95 Mo	-0.21	ug/l	2.75	0.21	
106 (Cd)	--------	ug/l	--------	#######	
107 Ag	-1.47	ug/l	0.24	0.09	
108 (Cd)	--------	ug/l	--------	#######	
111 Cd	0.01	ug/l	65.02	0.06	
118 Sn	-0.17	ug/l	4.61	#######	
118 Sn	-0.19	ug/l	11.79	#######	
118 Sn	-0.18	ug/l	3.38	0.30	
121 Sb	-0.23	ug/l	4.23	0.03	
137 Ba	0.00	ug/l	970.16	0.12	
205 Tl	0.01	ug/l	12.30	0.03	
206 (Pb)	--------	ug/l	--------	#######	
207 (Pb)	--------	ug/l	--------	#######	
208 Pb	0.00	ug/l	84.13	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4105473.80	0.11	3286936.30	124.9	70 - 120	IS Fai
45 Sc	2201841.50	1.13	2073738.10	106.2	70 - 120	
45 Sc	261133.27	0.31	232991.78	112.1	70 - 120	
45 Sc	4802755.00	0.63	4600080.50	104.4	70 - 120	
72 Ge	549320.00	1.39	503322.94	109.1	70 - 120	
72 Ge	174875.22	0.32	156968.59	111.4	70 - 120	
72 Ge	1009360.30	0.32	974851.69	103.5	70 - 120	
115 In	4415317.00	0.85	4125245.50	107.0	70 - 120	
115 In	1794020.10	0.64	1614159.60	111.1	70 - 120	
115 In	6848644.50	0.98	6517391.00	105.1	70 - 120	
159 Tb	9323089.00	0.37	8959087.00	104.1	70 - 120	
165 Ho	9058643.00	0.95	8649903.00	104.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\049_CCV.D\049_CCV.D#
Date Acquired: Feb 17 2012 04:18 pm
Operator: NBS
Sample Name: CCV 120217
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
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	53.88	ug/l	1.81	50.00	90 -	110	
11 B	-11.60	ug/l	8.67	50.00	90 -	110	Fail
23 Na	1105.00	ug/l	0.60	1250.00	90 -	110	Fail
24 Mg	2542.00	ug/l	0.97	2500.00	90 -	110	
27 Al	1042.00	ug/l	0.28	1000.00	90 -	110	
39 K	1000.00	ug/l	0.81	1000.00	90 -	110	
44 Ca	2516.00	ug/l	1.75	2500.00	90 -	110	
47 Ti	46.60	ug/l	2.40	50.00	90 -	110	
51 V	47.40	ug/l	1.04	50.00	90 -	110	
52 Cr	46.94	ug/l	0.26	50.00	90 -	110	
55 Mn	48.07	ug/l	0.94	50.00	90 -	110	
56 Fe	962.40	ug/l	0.73	1000.00	90 -	110	
59 Co	46.46	ug/l	0.50	50.00	90 -	110	
60 Ni	46.40	ug/l	0.12	50.00	90 -	110	
63 Cu	46.46	ug/l	1.09	50.00	90 -	110	
65 Cu	46.81	ug/l	0.61	50.00	90 -	110	
66 Zn	48.31	ug/l	0.61	50.00	90 -	110	
75 As	48.10	ug/l	0.80	50.00	90 -	110	
78 Se	48.62	ug/l	0.04	50.00	90 -	110	
78 Se	50.14	ug/l	0.63	50.00	90 -	110	
88 Sr	50.14	ug/l	0.62	50.00	90 -	110	
88 Sr	48.14	ug/l	0.79	50.00	90 -	110	
95 Mo	48.84	ug/l	0.99	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	23.91	ug/l	0.72	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	48.87	ug/l	0.49	50.00	90 -	110	
118 Sn	48.62	ug/l	1.37	---	##### -	#####	
118 Sn	48.70	ug/l	1.01	---	##### -	#####	
118 Sn	49.12	ug/l	0.68	50.00	90 -	110	
121 Sb	48.85	ug/l	1.21	50.00	90 -	110	
137 Ba	49.22	ug/l	0.21	50.00	90 -	110	
205 Tl	46.98	ug/l	0.64	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	48.33	ug/l	0.72	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3645773.00	1.02	3286936.30	110.9	70 -	120	
45 Sc	1951209.10	0.73	2073738.10	94.1	70 -	120	
45 Sc	231143.78	0.37	232991.78	99.2	70 -	120	
45 Sc	4232788.50	1.75	4600080.50	92.0	70 -	120	
72 Ge	479544.91	0.68	503322.94	95.3	70 -	120	
72 Ge	152857.20	1.14	156968.59	97.4	70 -	120	
72 Ge	892650.06	1.67	974851.69	91.6	70 -	120	
115 In	3959910.80	0.52	4125245.50	96.0	70 -	120	
115 In	1587508.30	0.32	1614159.60	98.3	70 -	120	
115 In	5977837.00	0.27	6517391.00	91.7	70 -	120	
159 Tb	8313108.00	0.89	8959087.00	92.8	70 -	120	
165 Ho	8135881.00	1.11	8649903.00	94.1	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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\12B17k00.B\051_CCB.D\051_CCB.D#
Date Acquired: Feb 17 2012 04:32 pm
Operator: NBS
Sample Name: CCB 120217
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	########	
9 Be	0.01	ug/l	65.67	0.12	
11 B	-82.26	ug/l	0.46	15.00	
23 Na	-21.75	ug/l	72.09	77.10	
24 Mg	0.37	ug/l	41.81	7.50	
27 Al	-0.63	ug/l	67.82	3.96	
39 K	-26.07	ug/l	19.88	19.20	
44 Ca	-81.24	ug/l	0.38	90.00	
47 Ti	-0.11	ug/l	0.00	0.78	
51 V	-0.03	ug/l	23.15	0.21	
52 Cr	-0.05	ug/l	1.14	0.12	
55 Mn	-0.05	ug/l	15.82	0.18	
56 Fe	-0.56	ug/l	4.63	40.80	
59 Co	0.00	ug/l	39.75	0.09	
60 Ni	0.00	ug/l	1007.10	0.48	
63 Cu	-0.09	ug/l	4.37	0.39	
65 Cu	-0.10	ug/l	10.09	0.39	
66 Zn	-0.33	ug/l	5.54	6.90	
75 As	-0.07	ug/l	4.64	0.27	
78 Se	-0.04	ug/l	50.39	0.30	
78 Se	-0.63	ug/l	11.76	0.30	
88 Sr	0.00	ug/l	373.00	0.03	
88 Sr	0.00	ug/l	370.47	0.03	
95 Mo	-0.21	ug/l	10.44	0.21	
106 (Cd)	--------	ug/l	--------	########	
107 Ag	-1.47	ug/l	0.09	0.09	
108 (Cd)	--------	ug/l	--------	########	
111 Cd	0.01	ug/l	41.94	0.06	
118 Sn	-0.17	ug/l	8.75	########	
118 Sn	-0.20	ug/l	4.27	########	
118 Sn	-0.19	ug/l	6.86	0.30	
121 Sb	-0.28	ug/l	2.15	0.03	
137 Ba	0.00	ug/l	24712.00	0.12	
205 Tl	0.03	ug/l	4.92	0.03	
206 (Pb)	--------	ug/l	--------	########	
207 (Pb)	--------	ug/l	--------	########	
208 Pb	0.00	ug/l	31.65	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	4051040.80	0.69	3286936.30	123.2	70 - 120	IS Fail
45 Sc	2096804.30	1.32	2073738.10	101.1	70 - 120	
45 Sc	250273.06	1.40	232991.78	107.4	70 - 120	
45 Sc	4610137.50	0.85	4600080.50	100.2	70 - 120	
72 Ge	518018.28	0.29	503322.94	102.9	70 - 120	
72 Ge	164602.19	1.12	156968.59	104.9	70 - 120	
72 Ge	958190.88	0.95	974851.69	98.3	70 - 120	
115 In	4247937.00	0.12	4125245.50	103.0	70 - 120	
115 In	1718033.90	0.67	1614159.60	106.4	70 - 120	
115 In	6525711.50	1.10	6517391.00	100.1	70 - 120	
159 Tb	8866220.00	0.27	8959087.00	99.0	70 - 120	
165 Ho	8591668.00	0.54	8649903.00	99.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
1 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Fail

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\063_CCV.D\063_CCV.D#
Date Acquired: Feb 17 2012 05:52 pm
Operator: NBS
Sample Name: CCV 120217
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
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	51.52	ug/l	1.64	50.00	90 -	110	
11 B	-11.09	ug/l	15.23	50.00	90 -	110	Fail
23 Na	1106.00	ug/l	1.36	1250.00	90 -	110	Fail
24 Mg	2436.00	ug/l	0.60	2500.00	90 -	110	
27 Al	1019.00	ug/l	2.07	1000.00	90 -	110	
39 K	986.50	ug/l	0.49	1000.00	90 -	110	
44 Ca	2401.00	ug/l	1.40	2500.00	90 -	110	
47 Ti	46.98	ug/l	2.36	50.00	90 -	110	
51 V	46.52	ug/l	1.20	50.00	90 -	110	
52 Cr	46.25	ug/l	0.99	50.00	90 -	110	
55 Mn	47.12	ug/l	1.14	50.00	90 -	110	
56 Fe	949.50	ug/l	2.00	1000.00	90 -	110	
59 Co	46.03	ug/l	0.96	50.00	90 -	110	
60 Ni	45.61	ug/l	0.90	50.00	90 -	110	
63 Cu	45.68	ug/l	0.67	50.00	90 -	110	
65 Cu	45.75	ug/l	0.52	50.00	90 -	110	
66 Zn	47.41	ug/l	1.52	50.00	90 -	110	
75 As	47.30	ug/l	0.47	50.00	90 -	110	
78 Se	47.68	ug/l	1.13	50.00	90 -	110	
78 Se	49.28	ug/l	0.50	50.00	90 -	110	
88 Sr	49.44	ug/l	0.99	50.00	90 -	110	
88 Sr	46.93	ug/l	1.01	50.00	90 -	110	
95 Mo	47.21	ug/l	1.65	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	23.36	ug/l	0.43	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	48.10	ug/l	0.63	50.00	90 -	110	
118 Sn	47.40	ug/l	0.35	--- #####	-	#####	
118 Sn	48.41	ug/l	1.62	--- #####	-	#####	
118 Sn	48.00	ug/l	0.49	50.00	90 -	110	
121 Sb	48.77	ug/l	1.03	50.00	90 -	110	
137 Ba	48.51	ug/l	0.70	50.00	90 -	110	
205 Tl	45.89	ug/l	0.44	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	47.64	ug/l	0.90	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	3473423.50	0.42	3286936.30	105.7	70 -	120	
45 Sc	1885795.10	0.50	2073738.10	90.9	70 -	120	
45 Sc	226574.55	0.78	232991.78	97.2	70 -	120	
45 Sc	4107907.30	1.11	4600080.50	89.3	70 -	120	
72 Ge	469168.66	0.57	503322.94	93.2	70 -	120	
72 Ge	150805.86	0.17	156968.59	96.1	70 -	120	
72 Ge	874966.31	0.65	974851.69	89.8	70 -	120	
115 In	3931316.00	0.06	4125245.50	95.3	70 -	120	
115 In	1568637.30	0.26	1614159.60	97.2	70 -	120	
115 In	5979071.00	0.46	6517391.00	91.7	70 -	120	
159 Tb	8137269.00	0.63	8959087.00	90.8	70 -	120	
165 Ho	7892294.00	0.91	8649903.00	91.2	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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\12B17k00.B\065_CCB.D\065_CCB.D#
Date Acquired: Feb 17 2012 06:06 pm
Operator: NBS
Sample Name: CCB 120217
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	########	
9 Be	0.01	ug/l	70.86	0.12	
11 B	-82.88	ug/l	0.33	15.00	
23 Na	45.79	ug/l	46.78	77.10	
24 Mg	0.18	ug/l	86.41	7.50	
27 Al	-0.64	ug/l	39.69	3.96	
39 K	-17.20	ug/l	20.29	19.20	
44 Ca	-78.33	ug/l	6.60	90.00	
47 Ti	-0.08	ug/l	37.66	0.78	
51 V	-0.04	ug/l	10.56	0.21	
52 Cr	-0.06	ug/l	4.15	0.12	
55 Mn	-0.06	ug/l	15.28	0.18	
56 Fe	-0.55	ug/l	5.39	40.80	
59 Co	0.00	ug/l	37.86	0.09	
60 Ni	0.00	ug/l	250.89	0.48	
63 Cu	-0.08	ug/l	11.22	0.39	
65 Cu	-0.11	ug/l	28.09	0.39	
66 Zn	-0.38	ug/l	4.29	6.90	
75 As	-0.06	ug/l	17.21	0.27	
78 Se	-0.03	ug/l	40.07	0.30	
78 Se	-0.23	ug/l	96.43	0.30	
88 Sr	0.00	ug/l	185.22	0.03	
88 Sr	0.00	ug/l	150.03	0.03	
95 Mo	-0.22	ug/l	4.95	0.21	
106 (Cd)	--------	ug/l	--------	########	
107 Ag	-1.47	ug/l	0.16	0.09	
108 (Cd)	--------	ug/l	--------	########	
111 Cd	0.00	ug/l	181.32	0.06	
118 Sn	-0.17	ug/l	6.73	########	
118 Sn	-0.19	ug/l	8.20	########	
118 Sn	-0.18	ug/l	8.42	0.30	
121 Sb	-0.25	ug/l	2.14	0.03	
137 Ba	0.00	ug/l	570.78	0.12	
205 Tl	0.01	ug/l	10.13	0.03	
206 (Pb)	--------	ug/l	--------	########	
207 (Pb)	--------	ug/l	--------	########	
208 Pb	0.00	ug/l	52.51	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3702158.00	0.86	3286936.30	112.6	70 - 120	
45 Sc	1983151.60	0.80	2073738.10	95.6	70 - 120	
45 Sc	234151.05	2.17	232991.78	100.5	70 - 120	
45 Sc	4274515.00	0.95	4600080.50	92.9	70 - 120	
72 Ge	502243.50	1.60	503322.94	99.8	70 - 120	
72 Ge	159341.73	0.64	156968.59	101.5	70 - 120	
72 Ge	914576.69	0.59	974851.69	93.8	70 - 120	
115 In	4153618.80	0.65	4125245.50	100.7	70 - 120	
115 In	1669645.90	0.51	1614159.60	103.4	70 - 120	
115 In	6220968.50	0.71	6517391.00	95.5	70 - 120	
159 Tb	8467560.00	0.80	8959087.00	94.5	70 - 120	
165 Ho	8242593.50	0.64	8649903.00	95.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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

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	0.22 U	0.5	0.22	0.11	ug/L	02/16/12	02/17/12	#602D-120216A-AY54765

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\038SMPL.D\038SMPL.D#
Date Acquired: Feb 17 2012 03:02 pm
Operator: NBS
Sample Name: 120216A-3015-BLK
Misc Info: 120216A-3015
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
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	0.00	ug/l	0.00	1353.80	1000	
11 B	-61.08	ug/l	-67.86	0.74	1000	
23 Na	6.59	ug/l	7.32	125.47	25000	
24 Mg	1.08	ug/l	1.20	19.37	50000	
27 Al	-0.17	ug/l	-0.19	226.93	20000	
39 K	-5.46	ug/l	-6.07	8.69	20000	
44 Ca	-65.26	ug/l	-72.50	10.47	50000	
47 Ti	0.00	ug/l	0.00	##########	1000	
51 V	-0.03	ug/l	-0.04	19.30	1000	
52 Cr	0.02	ug/l	0.02	39.03	1000	
55 Mn	0.27	ug/l	0.30	4.21	1000	
56 Fe	0.03	ug/l	0.03	40.03	20000	
59 Co	0.01	ug/l	0.02	46.93	1000	
60 Ni	0.01	ug/l	0.01	45.26	1000	
63 Cu	0.11	ug/l	0.13	7.18	1000	
65 Cu	0.08	ug/l	0.08	16.09	1000	
66 Zn	0.23	ug/l	0.26	8.52	1000	
75 As	-0.05	ug/l	-0.06	18.31	1000	
78 Se	-0.07	ug/l	-0.07	20.39	1000	
78 Se	-0.03	ug/l	-0.03	901.56	1000	
88 Sr	0.00	ug/l	0.00	95.54	1000	
88 Sr	0.00	ug/l	0.00	34.88	1000	
95 Mo	-0.20	ug/l	-0.22	4.78	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	-1.47	ug/l	-1.63	0.13	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	0.00	ug/l	0.00	392.78	1000	
118 Sn	-0.09	ug/l	-0.10	12.58	########	
118 Sn	-0.10	ug/l	-0.11	23.04	########	
118 Sn	-0.09	ug/l	-0.10	11.23	1000	
121 Sb	-0.05	ug/l	-0.06	7.87	1000	
137 Ba	0.06	ug/l	0.07	20.24	1000	
205 Tl	0.00	ug/l	0.00	646.24	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	0.00	ug/l	0.00	44.97	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3622416.00	0.62	3286936.30	110.2	70 - 120	
45 Sc	1969275.60	0.42	2073738.10	95.0	70 - 120	
45 Sc	234158.69	0.56	232991.78	100.5	70 - 120	
45 Sc	4336990.50	0.66	4600080.50	94.3	70 - 120	
72 Ge	486515.44	0.88	503322.94	96.7	70 - 120	
72 Ge	159579.80	0.65	156968.59	101.7	70 - 120	
72 Ge	922338.63	1.67	974851.69	94.6	70 - 120	
115 In	3957241.30	1.47	4125245.50	95.9	70 - 120	
115 In	1574566.80	0.49	1614159.60	97.5	70 - 120	
115 In	6101608.00	0.34	6517391.00	93.6	70 - 120	
159 Tb	8272911.50	1.65	8959087.00	92.3	70 - 120	
165 Ho	8100857.50	0.93	8649903.00	93.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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	49.0	98.0	80-120	02/16/12	02/17/12	#602D-120216A-AY54765

381

Comments: _____

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\039SMPL.D\039SMPL.D#
Date Acquired: Feb 17 2012 03:09 pm
Operator: NBS
Sample Name: 120216A-3015-LCS
Misc Info: 120216A-3015
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
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	9.21	ug/l	10.23	0.08	1000	
11 B	-4.00	ug/l	-4.45	20.78	1000	
23 Na	4535.00	ug/l	5038.39	1.21	25000	
24 Mg	4484.00	ug/l	4981.72	1.68	50000	
27 Al	390.50	ug/l	433.85	1.68	20000	
39 K	915.20	ug/l	1016.79	1.11	20000	
44 Ca	4575.00	ug/l	5082.83	1.50	50000	
47 Ti	43.86	ug/l	48.73	4.01	1000	
51 V	43.58	ug/l	48.42	1.83	1000	
52 Cr	45.22	ug/l	50.24	1.51	1000	
55 Mn	45.81	ug/l	50.89	0.99	1000	
56 Fe	181.30	ug/l	201.42	0.58	20000	
59 Co	42.94	ug/l	47.71	0.41	1000	
60 Ni	43.34	ug/l	48.15	0.92	1000	
63 Cu	41.32	ug/l	45.91	0.47	1000	
65 Cu	41.30	ug/l	45.88	1.58	1000	
66 Zn	83.38	ug/l	92.64	1.78	1000	
75 As	40.77	ug/l	45.30	1.60	1000	
78 Se	36.31	ug/l	40.34	1.14	1000	
78 Se	37.72	ug/l	41.91	1.36	1000	
88 Sr	45.70	ug/l	50.77	1.64	1000	
88 Sr	43.79	ug/l	48.65	1.38	1000	
95 Mo	43.38	ug/l	48.20	1.13	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	13.49	ug/l	14.99	0.79	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	8.45	ug/l	9.39	0.48	1000	
118 Sn	46.32	ug/l	51.46	1.92	########	
118 Sn	47.04	ug/l	52.26	1.11	########	
118 Sn	47.03	ug/l	52.25	0.81	1000	
121 Sb	43.88	ug/l	48.75	1.14	1000	
137 Ba	43.46	ug/l	48.28	0.77	1000	
205 Tl	42.44	ug/l	47.15	1.19	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	44.16	ug/l	49.06	0.81	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3520698.00	0.20	3286936.30	107.1	70 - 120	
45 Sc	1941233.50	0.73	2073738.10	93.6	70 - 120	
45 Sc	230001.73	1.16	232991.78	98.7	70 - 120	
45 Sc	4200398.50	0.90	4600080.50	91.3	70 - 120	
72 Ge	474548.69	0.82	503322.94	94.3	70 - 120	
72 Ge	156214.17	1.24	156968.59	99.5	70 - 120	
72 Ge	876577.38	0.71	974851.69	89.9	70 - 120	
115 In	3827568.00	1.50	4125245.50	92.8	70 - 120	
115 In	1545567.60	1.41	1614159.60	95.8	70 - 120	
115 In	5905024.00	1.26	6517391.00	90.6	70 - 120	
159 Tb	7945226.00	0.85	8959087.00	88.7	70 - 120	
165 Ho	7758041.00	0.90	8649903.00	89.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Pass
ISTD: Pass

Matrix Spike Recoveries

METALS

APPL ID: **120216W-54765 MS - 164019**

Sample ID: AY54765

Client ID: ES069

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	Recovery Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	50.0	ND	49.7	49.3	99.4	98.6	0.8	20	80-120	02/16/12	02/17/12	02/16/12	02/17/12	164019	AY54765

Comments: _____

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\053SMPL.D\053SMPL.D#
Date Acquired: Feb 17 2012 04:45 pm
Operator: NBS
Sample Name: AY54765W08 MS
Misc Info: 120216A-3015
Vial Number: 3208
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
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	9.83	ug/l	10.92	0.76	1000	
11 B	81.56	ug/l	90.61	4.35	1000	
23 Na	37480.00	ug/l	41640.28	1.98	25000	>Cal
24 Mg	14640.00	ug/l	16265.04	1.17	50000	
27 Al	405.50	ug/l	450.51	0.48	20000	
39 K	2809.00	ug/l	3120.80	1.84	20000	
44 Ca	17980.00	ug/l	19975.78	0.54	50000	
47 Ti	44.74	ug/l	49.71	2.34	1000	
51 V	44.11	ug/l	49.01	1.09	1000	
52 Cr	45.47	ug/l	50.52	1.42	1000	
55 Mn	813.10	ug/l	903.35	1.63	1000	
56 Fe	363.50	ug/l	403.85	0.96	20000	
59 Co	43.67	ug/l	48.52	1.08	1000	
60 Ni	44.56	ug/l	49.51	1.90	1000	
63 Cu	42.23	ug/l	46.92	1.53	1000	
65 Cu	42.12	ug/l	46.80	1.28	1000	
66 Zn	93.43	ug/l	103.80	0.59	1000	
75 As	41.17	ug/l	45.74	0.78	1000	
78 Se	36.26	ug/l	40.28	1.57	1000	
78 Se	36.48	ug/l	40.53	1.49	1000	
88 Sr	127.30	ug/l	141.43	0.46	1000	
88 Sr	128.00	ug/l	142.21	1.85	1000	
95 Mo	44.28	ug/l	49.20	0.89	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	13.53	ug/l	15.03	1.04	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	8.60	ug/l	9.55	1.55	1000	
118 Sn	48.35	ug/l	53.72	1.23	#######	
118 Sn	48.13	ug/l	53.47	1.04	#######	
118 Sn	48.26	ug/l	53.62	0.43	1000	
121 Sb	47.25	ug/l	52.49	0.66	1000	
137 Ba	53.77	ug/l	59.74	0.17	1000	
205 Tl	42.98	ug/l	47.75	1.28	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	44.76	ug/l	49.73	1.56	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3324893.30	0.73	3286936.30	101.2	70 - 120	
45 Sc	1759180.80	0.59	2073738.10	84.8	70 - 120	
45 Sc	213513.34	1.37	232991.78	91.6	70 - 120	
45 Sc	3869039.50	1.11	4600080.50	84.1	70 - 120	
72 Ge	422014.88	1.15	503322.94	83.8	70 - 120	
72 Ge	142268.94	1.00	156968.59	90.6	70 - 120	
72 Ge	814876.13	0.66	974851.69	83.6	70 - 120	
115 In	3533221.50	1.36	4125245.50	85.6	70 - 120	
115 In	1453846.40	0.43	1614159.60	90.1	70 - 120	
115 In	5534877.50	0.21	6517391.00	84.9	70 - 120	
159 Tb	7592374.00	1.29	8959087.00	84.7	70 - 120	
165 Ho	7400789.00	0.52	8649903.00	85.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\12B17k00.B\054SMPL.D\054SMPL.D#
Date Acquired: Feb 17 2012 04:52 pm
Operator: NBS
Sample Name: AY547G5W08 MSD
Misc Info: 120216A-3015
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\62A0217A.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0217A.C
Last Cal Update: Feb 17 2012 11:34 am
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	9.57	ug/l	10.63	0.92	1000	
11 B	77.91	ug/l	86.56	3.44	1000	
23 Na	37450.00	ug/l	41606.95	2.14	25000	>Cal
24 Mg	14700.00	ug/l	16331.70	2.18	50000	
27 Al	389.10	ug/l	432.29	3.60	20000	
39 K	2844.00	ug/l	3159.68	1.28	20000	
44 Ca	18340.00	ug/l	20375.74	1.43	50000	
47 Ti	44.35	ug/l	49.27	3.63	1000	
51 V	44.42	ug/l	49.35	2.89	1000	
52 Cr	46.04	ug/l	51.15	1.88	1000	
55 Mn	810.40	ug/l	900.35	2.26	1000	
56 Fe	360.30	ug/l	400.29	1.94	20000	
59 Co	43.84	ug/l	48.71	1.95	1000	
60 Ni	44.61	ug/l	49.56	1.20	1000	
63 Cu	42.50	ug/l	47.22	1.63	1000	
65 Cu	42.45	ug/l	47.16	0.62	1000	
66 Zn	89.74	ug/l	99.70	1.54	1000	
75 As	41.13	ug/l	45.70	2.30	1000	
78 Se	35.77	ug/l	39.74	2.16	1000	
78 Se	36.55	ug/l	40.61	4.74	1000	
88 Sr	126.30	ug/l	140.32	0.58	1000	
88 Sr	128.10	ug/l	142.32	0.79	1000	
95 Mo	43.96	ug/l	48.84	1.29	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	13.56	ug/l	15.07	0.23	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	8.48	ug/l	9.42	1.75	1000	
118 Sn	47.37	ug/l	52.63	0.80	########	
118 Sn	48.11	ug/l	53.45	1.96	########	
118 Sn	48.31	ug/l	53.67	1.14	1000	
121 Sb	47.14	ug/l	52.37	0.38	1000	
137 Ba	53.72	ug/l	59.68	0.93	1000	
205 Tl	42.39	ug/l	47.10	0.24	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	44.37	ug/l	49.30	0.50	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3264339.80	0.47	3286936.30	99.3	70 - 120	
45 Sc	1763712.80	0.65	2073738.10	85.0	70 - 120	
45 Sc	211825.11	1.55	232991.76	90.9	70 - 120	
45 Sc	3900301.80	0.69	4600080.50	84.8	70 - 120	
72 Ge	422789.97	0.41	503322.94	84.0	70 - 120	
72 Ge	140881.80	2.35	156968.59	89.8	70 - 120	
72 Ge	809684.19	1.28	974851.69	83.1	70 - 120	
115 In	3547943.80	0.94	4125245.50	86.0	70 - 120	
115 In	1449952.80	1.53	1614159.60	89.8	70 - 120	
115 In	5452172.00	0.86	6517391.00	83.7	70 - 120	
159 Tb	7516146.50	0.94	8959087.00	83.9	70 - 120	
165 Ho	7330036.50	0.73	8649903.00	84.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\12B17k00.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

062

Metals Standards Log Book # 34 Page # 063

BBS 2/17/12

BBS 2/17/12

Hg STANDARD

CPI Lot # 11D140-28885
10ug/ml in 1% HNO3 LOT#K47023
Prep. Date 02/17/12
Exp. Date 03/16/12
By KWS

Manufacturer: J.T. Baker

Hg STOCK ICV

Ultra Scientific Lot #
K00200-26307
10ug/ml in 1% HNO3 LOT#K47023
Prep.Date 02/17/12
Exp. Date 03/16/12
By KWS
Manufacturer: J.T. Baker

STANNOUS CHLORIDE

125g SnCl2 MACRON Lot #K12620
100 mL HCl J.T. BAKER Lot #K29026
Brought to 500 mL with DI Water
Prep. Date 02/17/12
Exp. Date 02/16/13
By KWS

BBS 2/17/12

NBS 02/17/12

6020/6020A

(A)

NBS 02/17/12

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date: 02/17/12
Expires: 02/24/12
Prep 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL DI Water
Lot # K23022
20mL HCL / 2000mL Di Water
Lot #K43032
Expires: 02/24/12

Internal Standard Mix: Prep 02/16/2012

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	Env. Express	1036407-28139
50 uL	CCV-B	Env. Express	1036410-28140
50 uL	CCV-C	Env. Express	1100309-28141

Prepared in 100 mL of 1% HNO3/1.0% HCL 02/17/12

Standard 3 02/24/12

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	Env. Express	1036407-28139
25 uL	CCV-B	Env. Express	1036410-28140
25 uL	CCV-C	Env. Express	1100309-28141

Prepared in 100 mL of 1% HNO3/1.0% HCL 02/17/12

Standard 2 02/24/12

Amount	STD		
500 uL	Standard 4		02/17/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 02/17/12

Standard 1 02/24/12

Amount	STD		
50 uL	Standard 4		02/17/12

Prepared in 50 mL of 1% HNO3/1.0% HCL 02/17/12

ICP-MS ICV 02/24/12

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 02/17/12

ICSA Prep: 02/24/12

1 mL	ICSA	CPI	11C066-28529

Prepared in 5 mL of 1% HNO3/1.0% HCL 02/17/12

ICSAB Prep: 02/24/12

1mL	ICSA	CPI	11C066-28529
0.025mL	INT	O2SI	1023805-28210

Prepared in 5 mL of 1% HNO3/1.0% HCL 02/17/12

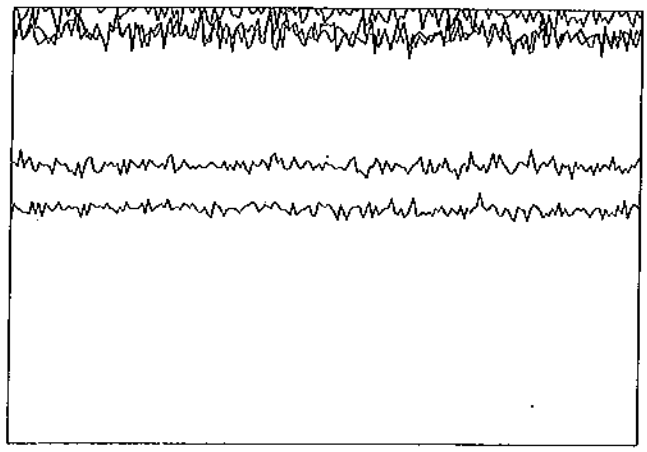
ICP-LDR 02/24/12

Amount	STD		
50 uL	CCV-A	Env. Express	1036407-28139
50 uL	CCV-B	Env. Express	1036410-28140
50 uL	CCV-C	Env. Express	1100309-28141

Prepared in 10 mL of 1% HNO3/1.0% HCL 02/17/12

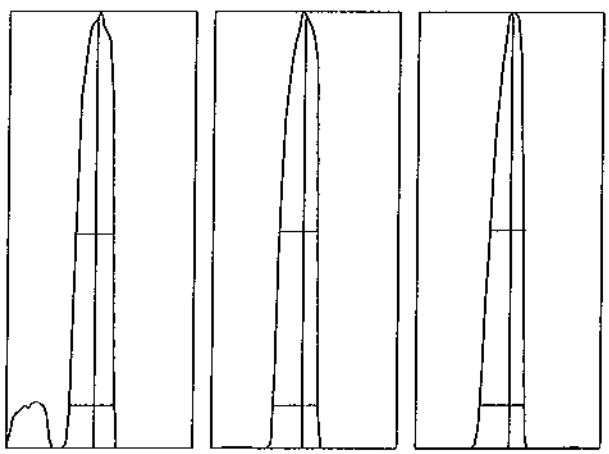
Tune Report

Tune File : NG_HMI.u
Comment : 120217



Integration Time:	0.1000 sec	
Sampling Period:	0.7200 sec	
n:	200	
Oxide:	156/140	0.826%
Doubly Charged:	70/140	1.346%

m/z	Range	Count	Mean	RSD%	Background
7	10,000	9938.0	9935.9	2.16	2.10
89	20,000	19173.0	18846.4	2.17	1.60
205	20,000	13293.0	12776.8	1.95	5.90
156/140	2	0.775%	0.850%	8.21	
70/140	2	1.320%	1.293%	7.32	
140	20,000	19472.0	18798.6	2.04	4.40
59	20,000	10760.0	10777.4	2.03	1.20



m/z:	7	89	205
Height:	9,829	19,212	13,393
Axis:	6.95	89.00	205.05
W-50%:	0.65	0.65	0.60
W-10%:	0.7500	0.7500	0.7500

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Generated : Feb 17, 2012 10:04:23
Printed : Feb 17, 2012 10:04:25

Tune Report

Tune File : NG_HMI.u
Comment : 120217

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1600 W	Extract 1	:	0 V	AMU Gain	:	126
RF Matching	:	1.84 V	Extract 2	:	-170 V	AMU Offset	:	127
Smpl Depth	:	8 mm	Omega Bias-ce	:	-18 V	Axis Gain	:	1.0001
Torch-H	:	-0.3 mm	Omega Lens-ce	:	0.2 V	Axis Offset	:	-0.05
Torch-V	:	0.1 mm	Cell Entrance	:	-30 V	QP Bias	:	-3 V
Carrier Gas	:	0.38 L/min	QP Focus	:	5 V			
Makeup Gas	:	0.65 L/min	Cell Exit	:	-30 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	8 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1700 V
Sample Pump	:	--- rps	OctP RF	:	180 V	Pulse HV	:	1170 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	:	--- %

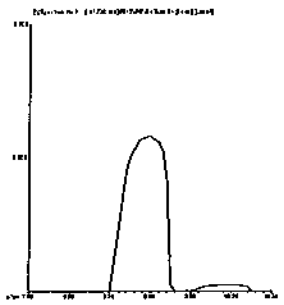
Generated : Feb 17, 2012 10:04:23
Printed : Feb 17, 2012 10:04:27

200.8 QC Tune Report

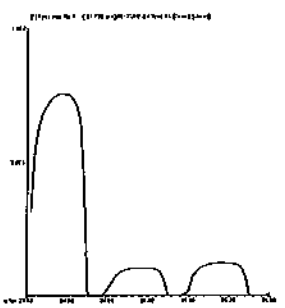
Data File: C:\ICPCHEM\1\DATA\12B17k00.B\001TUNE.D
Date Acquired: Feb 17 2012 10:45 am
Acq. Method: TN200_8.M
Operator: NBS
Sample Name: 100ppb Tune sol
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

RSD (%)

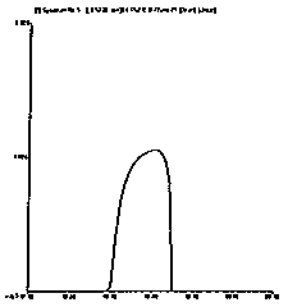
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	1649481	1635353	1667194	1654583	1647517	1642757	0.35	5.00	
24 Mg	4604280	4610745	4617162	4611166	4620076	4562251	0.98	5.00	
59 Co	6319124	6371551	6399774	6311480	6278498	6234319	0.79	5.00	
115 In	30847880	30914604	31083958	30974998	30861810	30404028	0.96	5.00	
208 Pb	4858196	4889472	4864968	4890848	4837704	4807990	0.35	5.00	



9 Be
Mass Calib.
Actual: 8.95
Required: 8.90 - 9.10
Flag:
Peak Width
Actual: 0.65
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:



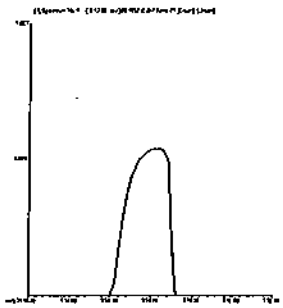
59 Co

Mass Calib.

Actual:	59.00		
Required:	58.90	-	59.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.90		
Flag:			



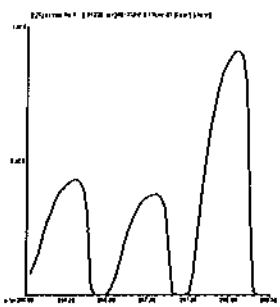
115 In

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:	208.05		
Required:	207.90	-	208.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.80		
Flag:			

Tune Result: Pass

_M3015

Metals Digestion Worksheet

Method Name 3015 Digestion **Prep Method** M3015 **Set** 120216A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT # 1032278-30261
Spiked ID 2	LCSW LOT # 1032271-30259
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 02/16/12 10:40:00 AM
Witnessed By	LO Date: 02/16/12 10:40:00 AM

Starting Temp:	20 c
Ending Temp:	170 c
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	Yes
End Date/Time	02/16/12 11:40

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	120216A Blk				45mL	50mL	02/16/12 10:40	equip: Venus
2	120216A LCS		90uL	1+2	45mL	50mL	02/16/12 10:40	equip: Venus
3	AY54658	AY54658W05			45mL	50mL	02/16/12 10:40	equip: Venus
4	AY54659	AY54659W02			45mL	50mL	02/16/12 10:40	equip: Venus
5	AY54704	AY54704W05			45mL	50mL	02/16/12 10:40	equip: Venus
6	AY54705	AY54705W05			45mL	50mL	02/16/12 10:40	equip: Venus
7	AY54765	AY54765W08			45mL	50mL	02/16/12 10:40	equip: Venus
8	AY54765 MS	AY54765W08	90uL	1+2	45mL	50mL	02/16/12 10:40	equip: Venus
9	AY54765 MSD	AY54765W08	90uL	1+2	45mL	50mL	02/16/12 10:40	equip: Venus

Solvent and Lot#
HNO3 J.T.B K47023 0138

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	EA
Date	2-16-12
Time	11:40
Moved to	Metals

Technician's Initials	
Scanned By	nm
Sample Preparation	nm
Digestion	lo
Bring up to volume	lo
Modified	02/16/12 10:13:09 AM

Reviewed By: EA 391 **Date:** 2-16-12

6020/200.8 Injection Log

Directory: K:\ICP-MS Optimus\raw data output csv\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	17 Feb 2012	11:03	Calibration Blank		120217Arev	1.
2	17 Feb 2012	11:10	120217 Standard 1		120217Arev	1.
3	17 Feb 2012	11:17	120217 Standard 2		120217Arev	1.
4	17 Feb 2012	11:24	120217 Standard 3		120217Arev	1.
5	17 Feb 2012	11:30	120217 Standard 4		120217Arev	1.
6	17 Feb 2012	11:37	ICV 120217		120217Arev	1.
9	17 Feb 2012	12:15	ICB 120217		120217Arev	1.
10	17 Feb 2012	12:21	CCV 120217		120217Arev	1.
11	17 Feb 2012	12:28	CCB 120217		120217Arev	1.
13	17 Feb 2012	12:48	ICSA 120217		120217Arev	1.
14	17 Feb 2012	12:55	ICSAB 120217		120217Arev	1.
15	17 Feb 2012	13:08	CCV 120217		120217Arev	1.
16	17 Feb 2012	13:21	CCB 120217		120217Arev	1.
26	17 Feb 2012	14:42	CCV 120217		120217Arev	1.
27	17 Feb 2012	14:55	CCB 120217		120217Arev	1.
28	17 Feb 2012	15:02	120216A-3015-BLK		120217Arev	1.
29	17 Feb 2012	15:09	120216A-3015-LCS		120217Arev	1.
39	17 Feb 2012	16:18	CCV 120217		120217Arev	1.
40	17 Feb 2012	16:32	CCB 120217		120217Arev	1.
41	17 Feb 2012	16:38	AY54765W08		120217Arev	1.
42	17 Feb 2012	16:45	AY54765W08 MS		120217Arev	1.
43	17 Feb 2012	16:52	AY54765W08 MSD		120217Arev	1.
44	17 Feb 2012	16:59	AY54765W08-A		120217Arev	1.
45	17 Feb 2012	17:05	AY54765W08-1/5		120217Arev	5.
52	17 Feb 2012	17:52	CCV 120217		120217Arev	1.
53	17 Feb 2012	18:06	CCB 120217		120217Arev	1.