Laboratory Report

Environet

LTM Red Hill Bulk Fuel Storage Facility

ARF 64475

Samples collected: April 19 and 20, 2011

APPL, Inc.

Data Validation Package
for
LTM Red Hill Bulk Fuel Storage Facility
ARF 64475

TABLE OF CONTENTS

CASE NARRATIVE

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

Case Narrative

ARF: 64475

Project: LTM Red Hill Bulk Fuel Storage Facility

State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

DoD-ELAP Certificate number: ADE-1410

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.

Sample Receipt Information:

The sample group was received on April 22, 2011, at 3.0°C, 3.0°C, 3.0°, and 3.0°C. The sample group was assigned Analytical Request Form (ARF) number 64475. The sample numbers and requested analyses were compared to the chain of custody. There was a container count discrepancy which was reported to the client. No other exception was encountered.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
ES019	AY36311	WATER	04/19/11	04/22/11
ES020	AY36312	WATER	04/19/11	04/22/11
ES021	AY36313	WATER	04/19/11	04/22/11
ES022	AY36314	WATER	04/19/11	04/22/11
ES023	AY36315	WATER	04/19/11	04/22/11
ES024	AY36316	WATER	04/20/11	04/22/11
ES025	AY36317	WATER	04/20/11	04/22/11
ES026	AY36318	WATER	04/20/11	04/22/11
ES027	AY36319	WATER	04/20/11	04/22/11

All samples were screened for J-value responses between the LOQ and DL.

EPA Method 8015B

Total Petroleum Hydrocarbons – Diesel

Sample Preparation:

The water samples were extracted according to EPA method 3510C. The sample was 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 ES020 was designated by the client for MS/MSD analysis. Diesel fuel recovered below the 61% lower control limit at 40.5% in the MSD. Diesel Fuel recovery in the MS was acceptable.

Surrogates:

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

Summary:

No other problem was encountered

EPA Method 8270D SIM
Polynuclear Aromatic Hydrocarbons

Sample Preparation:

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

Sample Analysis Information:

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

Quality Control/Assurance

Calibrations:

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

Blanks:

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

Spikes:

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

Sample ES020 was designated by the client for MS/MSD analysis. All 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 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. The samples were received in unpreserved vials; the samples were analyzed within seven days of collection.

Quality Control/Assurance

Calibrations:

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

Blanks:

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

Spikes:

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

Sample ES020 was designated by the client for MS/MSD analysis. All spike recoveries were acceptable.

Surrogates

Surrogate recoveries are summarized on the 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 problem was encountered. The data generated are acceptable.

EPA Method 6020

Metals

Digestion Information:

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

Analysis Information:

Samples:

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

Calibrations:

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

Blanks:

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

Spikes:

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

Sample ES020 was designated by the client for MS/MSD analysis. All acceptance criteria were met for the MS/MSD, PDS, and serial dilution.

Summary:

No analytical exception is noted.

CERTIFICATION

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

_____

Leonard Fong, Ph.D, Laboratory Director / Date

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 64475

Client: Environet, Inc.
Address: 650 Iwilei Rd, #204
Honolulu, HI 96817
Attn: Vilma Dupra
Phone: 808-833-2225 Fax: 808-833-2231
Job: LTM Red Hill Bulk Fuel Storage Facility
PO #: 1022-015
Chain of Custody (Y/N): Y # 34090
RAD Screen (Y/N): Y pH (Y/N): Y
Turn Around Type: 2 WEEKS

Received by: TBV
Date Received: 04/22/11 Time: 12:00
Delivered by: FED EX
Shuttle Custody Seals (Y/N): Y
Chest Temp(s): 3.0°,3.0°,3.0,3.0°C
Color: VOA,RED,Q-ORYEL
Samples Chilled until Placed in Refrig/Freezer: Y
Project Manager: Cynthia Clark
QC Report Type: DVP4/ADRDOD/HI
Due Date: 05/06/11

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

Sample Distribution:
GC: 5-$SIMHC12W, 5-$TPETD2
Extractions: 5- SEP004S, 5- SEP011
VOA: 9-$86RHBF
Metals: 5-$602D(Pb)
Other: 5- M3015

Charges:

Invoice To:
same

	Client ID		APPL ID	Sampled		Analyses Requested
1.	ES019		AY36311W	04/19/11	10:00	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- Non-perserved VOA
2.	ES020	MS/MSD	AY36312W	04/19/11	12:50	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- Non-perserved VOA
3.	ES021		AY36313W	04/19/11	09:00	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- Non-perserved VOA
4.	ES022	fld.vol.	AY36314W	04/19/11	07:00	$86RHBF -- Non-perserved VOA
5.	ES023	fld.vol.	AY36315W	04/19/11	07:00	$86RHBF -- Non-perserved VOA

6.	ES024	AY36316W	04/20/11	09:30	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- Non-perserved VOA
7.	ES025	AY36317W	04/20/11	14:15	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- Non-perserved VOA
8.	ES026	AY36318W ltd.vol.	04/20/11	07:00	$86RHBF -- Non-perserved VOA
9.	ES027	AY36319W ltd.vol.	04/20/11	07:00	$86RHBF -- Non-perserved VOA

Initials _____ Date _____

APPL Sample Receipt Form

ARF# 64475

Sample	Container Type	Count	pH
AY36311	[6] PL 500mL - HNO3	1	1.7
	[15] VOAs - NP	4	NA
	[17] Amber Liter	3	NA
AY36312	[6] PL 500mL - HNO3	3	1.7
	[15] VOAs - NP	11	NA
	[17] Amber Liter	9	NA
AY36313	[6] PL 500mL - HNO3	1	1.7
	[15] VOAs - NP	4	NA
	[17] Amber Liter	3	NA
AY36314	[15] VOAs - NP	1	NA
AY36315	[15] VOAs - NP	1	NA
AY36316	[6] PL 500mL - HNO3	1	1.7
	[15] VOAs - NP	4	NA
	[17] Amber Liter	3	NA
AY36317	[6] PL 500mL - HNO3	1	1.7
	[15] VOAs - NP	4	NA
	[17] Amber Liter	3	NA
AY36318	[15] VOAs - NP	1	NA
AY36319	[15] VOAs - NP	1	NA

Sample	Container Type	Count	pH

64475 3.0

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. 34090

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: Enviroret Inc Phone: 808 833-2225	Company Name: Enviroret 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 Dupra	Attn: Cecilia Adams

Project Name/Number	Sampler (Print)
Red Hill / 1022-015	Stacey Finerar
Purchase Order Number	Sampler (Signature)
	Stacy a-f

Sample Identification	Location	Date Collected	Time Collected	No. of Containers	Matrix: Aq	Sed.	Soil	VOCs EPA 8260B	TPH-GRO EPA 8015B	TPH-DRO EPA 8015M	PAHs EPA 8270C	Dissolved Pb EPA 6020							
ES019	Red Hill	4/19	10:00	8	X			X	X	X	X	X							
ES020 MS/MSD (SF)	Red Hill	4/19	12:50	3	X			X	X	X	X	X							
ES021	Red Hill	4/19	9:00	8	X			X	X	X	X	X							
~~ES020 MS/MSD (SF)~~																			
ES022	Red Hill	4/19	7:00	1	X			X											
ES023	Red Hill	4/19	7:00	1	X			X											
ES024	Red Hill	4/20	9:30	8	X			X	X	X	X	X							
ES025	Red Hill	4/20	~~0700~~ 1415	8	X			X	X	X	X	X							
ES026	Red Hill	4/20	0700	1	X			X											
ES027	Red Hill	4/20	0700	1	X			X											

Analysis Requested/Method Number

Date Shipped: 4/20/11
Carrier: Fed Ex
Waybill No.:
Comments:

All HCl was writnsed out.

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:
Stacey Finerar	4/20	5:00	Fed Ex				
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
					4/22/11	1200	

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 Date Received: 4/22/11
2) Coolers: Number of Coolers: 4
3) YES NO Were coolers and samples screened for radioactivity?
4) YES NO Were custody seals on outside of cooler? How many? 4 Date on seal? 4/20/11
5) Name on seal? See label below
6) YES NO NA Were custody seals unbroken and intact at the time of arrival?
7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex
8) Shipping slip numbers: 1) master 2) 8748 0067 1406 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.): Ziplock Bubble wrapped wet ice
12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?
13) YES NO Was a temperature blank included in the cooler?
14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0
15) Cooler temp(s): 1) 3.0c 2) 3.0c 3) 3.0c 4) 3.0c 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: AY 36311 W04; AY 36312 W01; AY 36314 W01; AY 36315 W01

Preservation & Hold time: AY 36316 W04; AY 36317; AY 36318 W01; AY 36319 W01

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 > 10?
37) YES NO NA Unpreserved VOA Vials received?
38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:
Deficiencies: Sample ES-20 list 31 on C.O.C container - We received 23 containers.

Signature of personnel receiving samples: Second reviewer: Hang
Signature of project manager notified: Renee Date and Time of notification: 4-25-11
Name of client notified: Date and Time of notification:
Information given to client:
by whom (initials):

CUSTODY SEAL
APPL, Inc. (559) 275-2175
Date 4/20/11
Is SF

EPA 8015 Modified
Total Petroleum Hydrocarbons

EPA 8015 Modified
Total Petroleum Hydrocarbons
QC Summary

Method Blank
TPH Diesel Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110426W-36312 - 155042**
Batch ID: #TPETD-110426A

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	04/26/11	04/27/11
BLANK	SURROGATE: OCTACOSANE (S)	61.7	28-142			%	04/26/11	04/27/11
BLANK	SURROGATE: ORTHO-TERPHEN	62.3	57-132			%	04/26/11	04/27/11

Quant Method: TPHODRO.M
Run #: 425079
Instrument: Apollo
Sequence: 110425
Initials: TRL

GC SC-Blank-REG MDLs
Printed: 05/13/11 3:48:51 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64475

Case No: 64475 Date Analyzed: 04/27/11

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)	SURROGATE: ORTHO-TERPHENYL (S)
110426A-BLK	Blank	61.7	62.3
110426A-LCS	Lab Control Spike	65.2	77.3
AY36311	ES019	63.7	67.4
AY36312-MS	Matrix Spike	66.0	79.3
AY36312-MSD	Matrix SpikeD	47.7	59.1
AY36312	ES020	67.7	72.1
AY36313	ES021	69.4	74.7
AY36316	ES024	66.0	68.4
AY36317	ES025	56.6	60.8

Comments: Batch: #TPETD-110426A

Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **110426W-36312 LCS - 155042**
Batch ID: #TPETD-110426A

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	1500	75.0	61-143
SURROGATE: OCTACOSANE (S)	150	97.8	65.2	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	116	77.3	57-132

Comments: _____

Primary	SPK
Quant Method :	TPHODRO.M
Extraction Date :	04/26/11
Analysis Date :	04/27/11
Instrument :	Apollo
Run :	425080
Initials :	TRL

Printed: 05/12/11 1:50:31 PM

APPL Standard LCS

Matrix Spike Recoveries

TPH Diesel Water

APPL ID: **110426W-36312 MS - 155042**
Batch ID: #TPETD-110426A
Sample ID: AY36312
Client ID: ES020

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	1100	2470	1910	68.5	40.5 #	61-143	25.6	30
SURROGATE: OCTACOSANE (S)	150	NA	99.0	71.5	66.0	47.7	28-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	NA	119	88.6	79.3	59.1	57-132		

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	TPHODRO.M	TPHODRO.M
Extraction Date :	04/26/11	04/26/11
Analysis Date :	04/27/11	04/27/11
Instrument :	Apollo	Apollo
Run :	425088	425089
Initials :	TRL	

Printed: 05/12/11 1:50:34 PM
APPL MSD SCII

EPA 8015B-e

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 64475

Case No: 64475 Date Analyzed: 04/27/11

Matrix: WATER Instrument: Apollo

Blank ID: 110426A-BLK Time Analyzed: 0930

APPL ID.	Client Sample No.	File ID.	Date Analyzed
110426A-BLK	Blank	425079	04/27/11 0930
110426A-LCS	Lab Control Spike	425080	04/27/11 0954
AY36311	ES019	425087	04/27/11 1249
110426A-MS	Matrix Spike	425088	04/27/11 1313
110426A-MSD	Matrix SpikeD	425089	04/27/11 1338
AY36312	ES020	425090	04/27/11 1402
AY36313	ES021	425091	04/27/11 1427
AY36316	ES024	425092	04/27/11 1452
AY36317	ES025	425093	04/27/11 1517

Comments: Batch: #TPETD-110426A

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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES019

APPL ID: AY36311

Sample Collection Date: 04/19/11

QCG: #TPETD-110426A-155042

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	04/26/11	04/27/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	63.7	28-142			%	04/26/11	04/27/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	67.4	57-132			%	04/26/11	04/27/11

Quant Method:	TPHODRO.M
Run #:	425087
Instrument:	Apollo
Sequence:	110425
Dilution Factor:	1
Initials:	TRL

Printed: 05/13/11 3:48:51 PM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

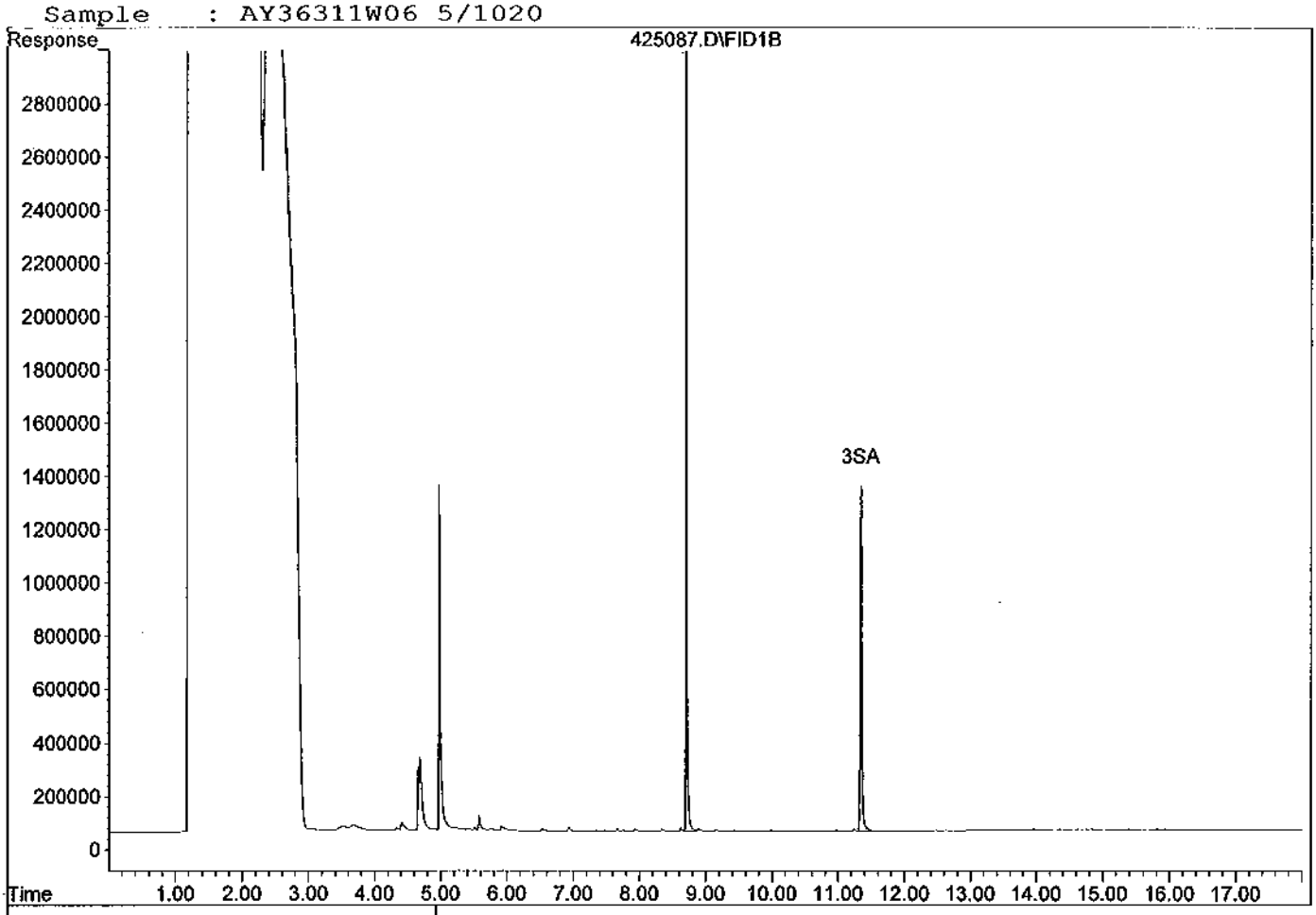
Data File : G:\APOLLO\DATA\110425\425087.D Vial: 87
Acq On : 4-27-11 12:49:36 Operator: LAC
Sample : AY36311W06 5/1020 Inst : Apollo
Misc : Water Multiplr: 4.90
IntFile : events.e
Quant Time: May 12 11:40 2011 Quant Results File: TPHODRO.RES

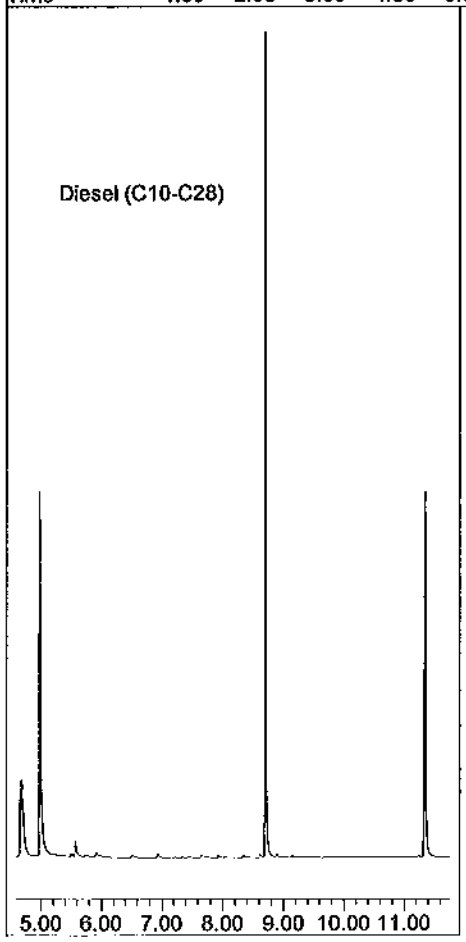
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.71	34921340	99.049 ppb
Surrogate Spike 147.059		Recovery =	67.35%
3) SA Octacosane(S)	11.35	21935925	93.647 ppb
Surrogate Spike 147.059		Recovery =	63.68%
Target Compounds			

Data File: G:\APOLLO\DATA\110425\425087.D
Sample : AY36311W06 5/1020





TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES020

APPL ID: AY36312

Sample Collection Date: 04/19/11

QCG: #TPETD-110426A-155042

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	1100 ++	150	80.8	40.4	ug/L	04/26/11	04/27/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	67.7	28-142			%	04/26/11	04/27/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	72.1	57-132			%	04/26/11	04/27/11

++(T2M) The analyst has noted that the chromatogram of this sample is mainly lower boiling hydrocarbons.

Quant Method: TPHODRO.M
Run #: 425090
Instrument: Apollo
Sequence: 110425
Dilution Factor: 1
Initials: TRL

Printed: 05/13/11 3:48:51 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (Not Reviewed)

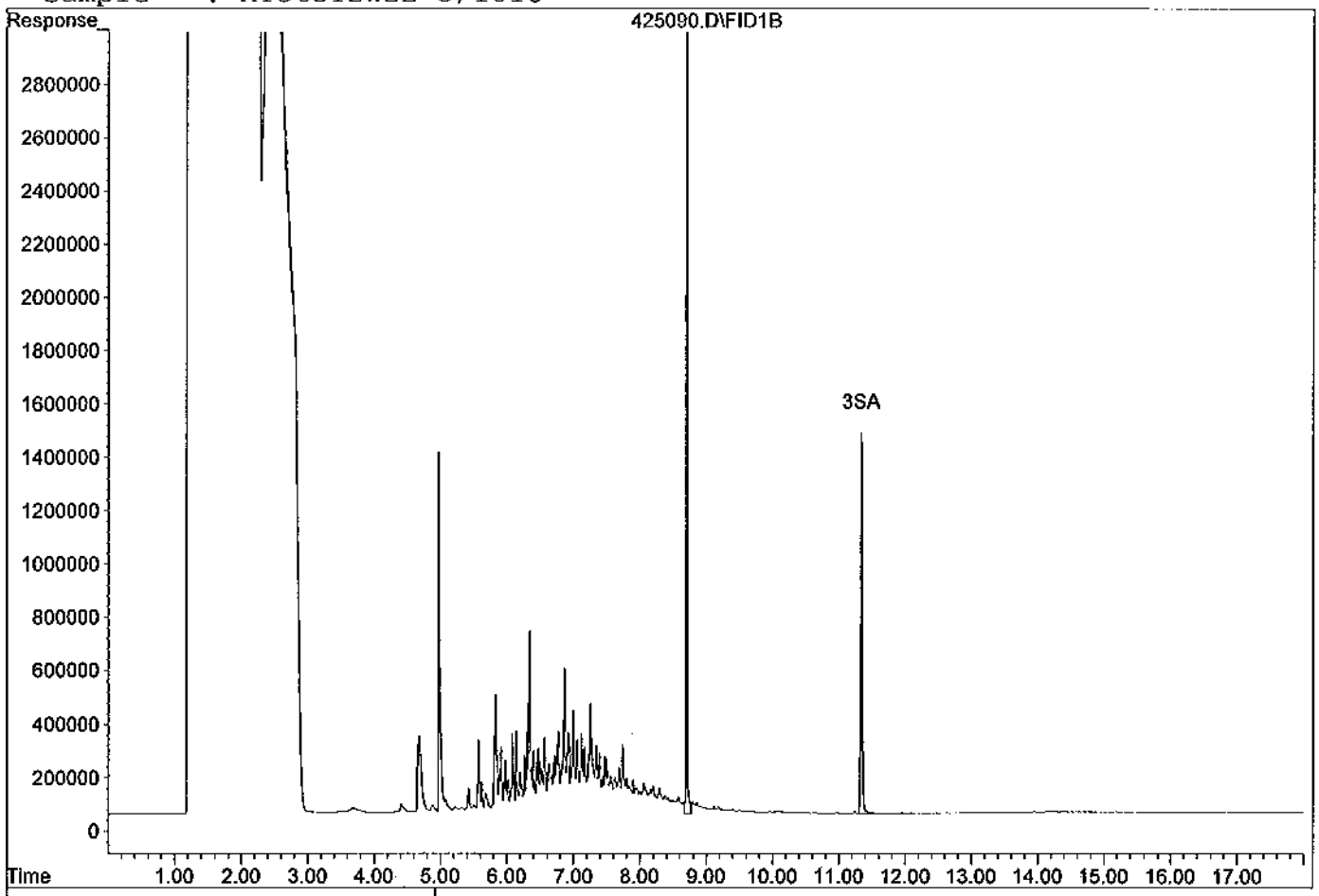
Data File : G:\APOLLO\DATA\110425\425090.D Vial: 90
Acq On : 4-27-11 14:02:57 Operator: LAC
Sample : AY36312W22 5/1010 Inst : Apollo
Misc : Water Multiplr: 4.95
IntFile : events.e
Quant Time: May 12 11:39 2011 Quant Results File: TPHODRO.RES

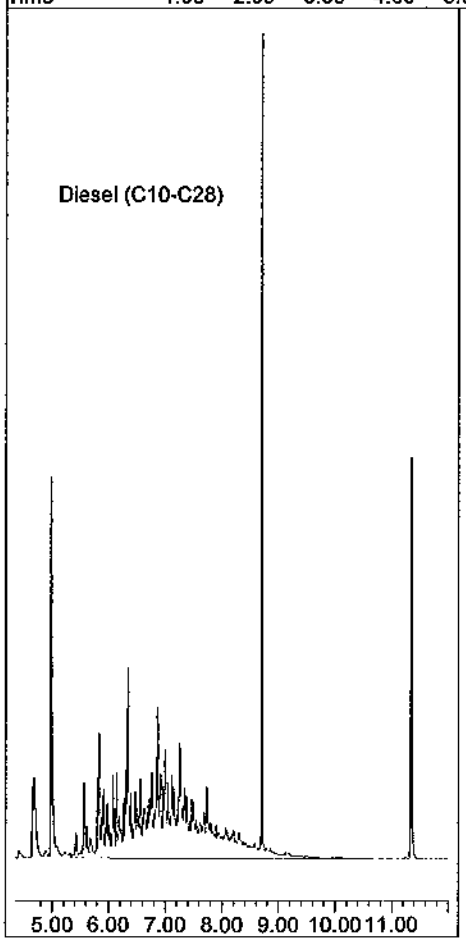
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	37382455	107.080 ppb
Surrogate Spike 148.515		Recovery =	72.10%
3) SA Octacosane(S)	11.35	23315982	100.525 ppb
Surrogate Spike 148.515		Recovery =	67.69%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	250541644	1079.203 ppb TZM

Data File: G:\APOLLO\DATA\110425\425090.D
Sample : AY36312W22 5/1010





TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES021

APPL ID: AY36313

Sample Collection Date: 04/19/11

QCG: #TPETD-110426A-155042

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	1100 ++	150	80.8	40.4	ug/L	04/26/11	04/27/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	69.4	28-142			%	04/26/11	04/27/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	74.7	57-132			%	04/26/11	04/27/11

++(T2M) The analyst has noted that the chromatogram of this sample is mainly lower boiling hydrocarbons.

Quant Method: TPHODRO.M
Run #: 425091
Instrument: Apollo
Sequence: 110425
Dilution Factor: 1
Initials: TRL

Printed: 05/13/11 3:48:51 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (Not Reviewed)

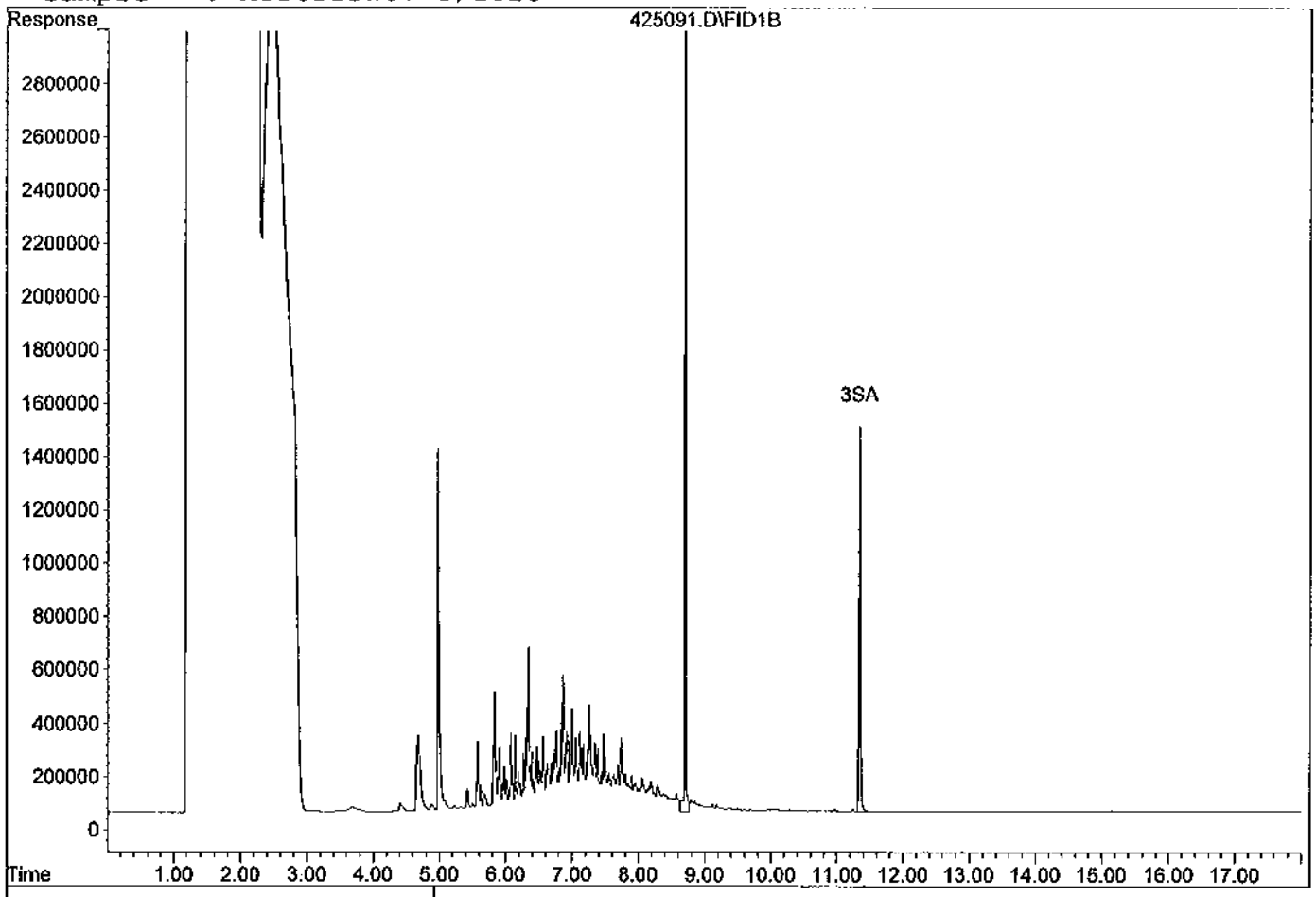
Data File : G:\APOLLO\DATA\110425\425091.D Vial: 91
Acq On : 4-27-11 14:27:25 Operator: LAC
Sample : AY36313W07 5/1020 Inst : Apollo
Misc : Water Multiplr: 4.90
IntFile : events.e
Quant Time: May 12 11:39 2011 Quant Results File: TPHODRO.RES

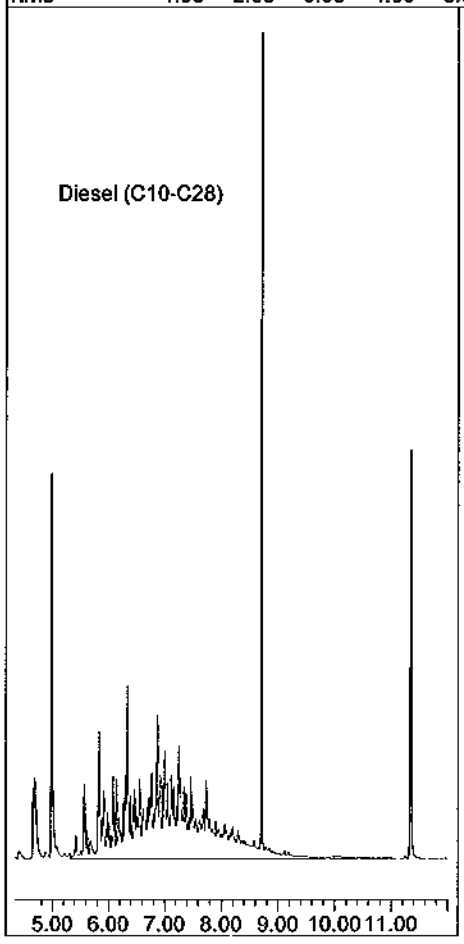
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	38737468	109.873 ppb
Surrogate Spike 147.059		Recovery =	74.71%
3) SA Octacosane(S)	11.35	23903390	102.047 ppb
Surrogate Spike 147.059		Recovery =	69.39%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	251442172	1072.462 ppb T2M

Data File: G:\APOLLO\DATA\110425\425091.D
Sample : AY36313W07 5/1020





TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES024

APPL ID: AY36316

Sample Collection Date: 04/20/11

QCG: #TPETD-110426A-155042

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	04/26/11	04/27/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	66.0	28-142			%	04/26/11	04/27/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	68.4	57-132			%	04/26/11	04/27/11

Quant Method:	TPHODRO.M
Run #:	425092
Instrument:	Apollo
Sequence:	110425
Dilution Factor:	1
Initials:	TRL

Printed: 05/13/11 3:48:51 PM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

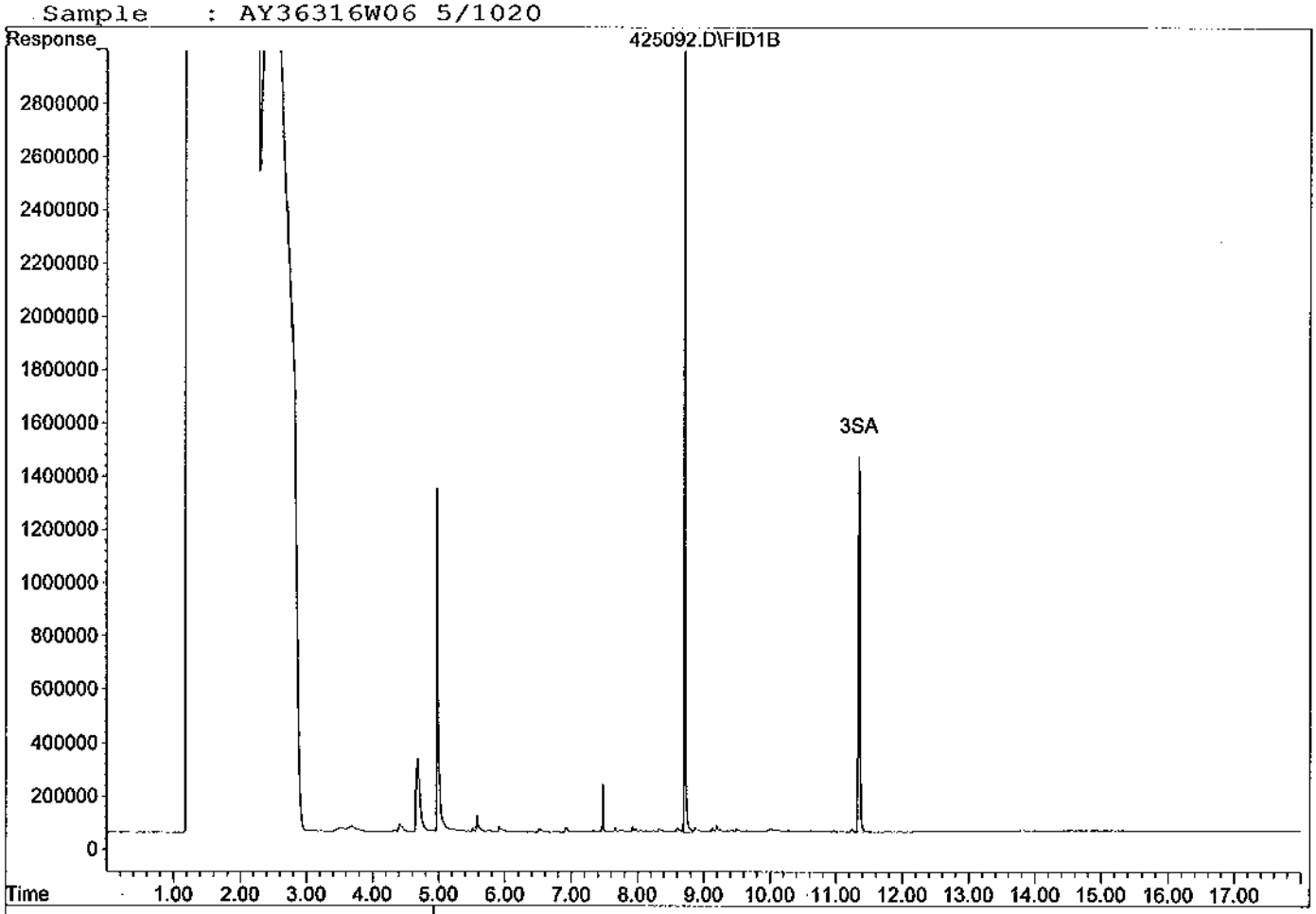
Data File : G:\APOLLO\DATA\110425\425092.D Vial: 92
Acq On : 4-27-11 14:52:28 Operator: LAC
Sample : AY36316W06 5/1020 Inst : Apollo
Misc : Water Multiplr: 4.90
IntFile : events.e
Quant Time: May 12 11:40 2011 Quant Results File: TPHODRO.RES

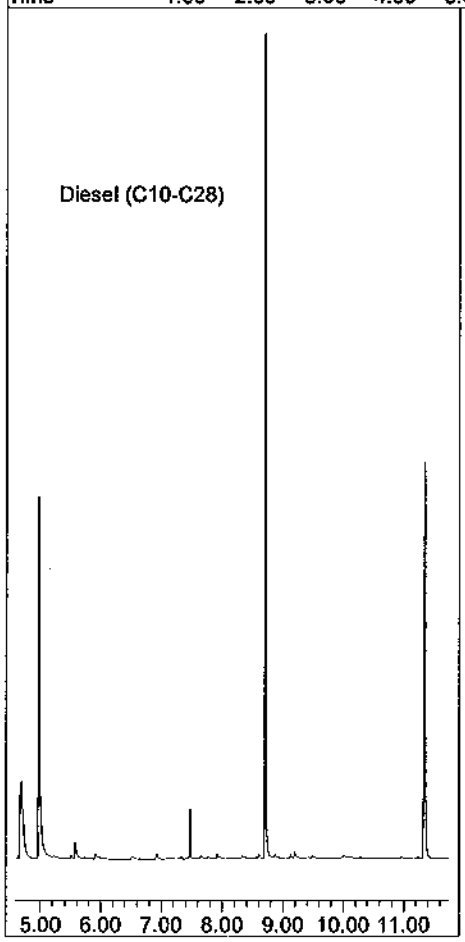
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.71	35448801	100.545 ppb
Surrogate Spike 147.059		Recovery =	68.37%
3) SA Octacosane(S)	11.35	22718082	96.987 ppb
Surrogate Spike 147.059		Recovery =	65.95%
Target Compounds			

Data File: G:\APOLLO\DATA\110425\425092.D
Sample : AY36316W06 5/1020





TPH Diesel Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES025
Sample Collection Date: 04/20/11

ARF: 64475
APPL ID: AY36317
QCG: #TPETD-110426A-155042

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	04/26/11	04/27/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	56.6	28-142			%	04/26/11	04/27/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	60.8	57-132			%	04/26/11	04/27/11

Quant Method: TPHODRO.M
Run #: 425093
Instrument: Apollo
Sequence: 110425
Dilution Factor: 1
Initials: TRL

Printed: 05/13/11 3:48:52 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

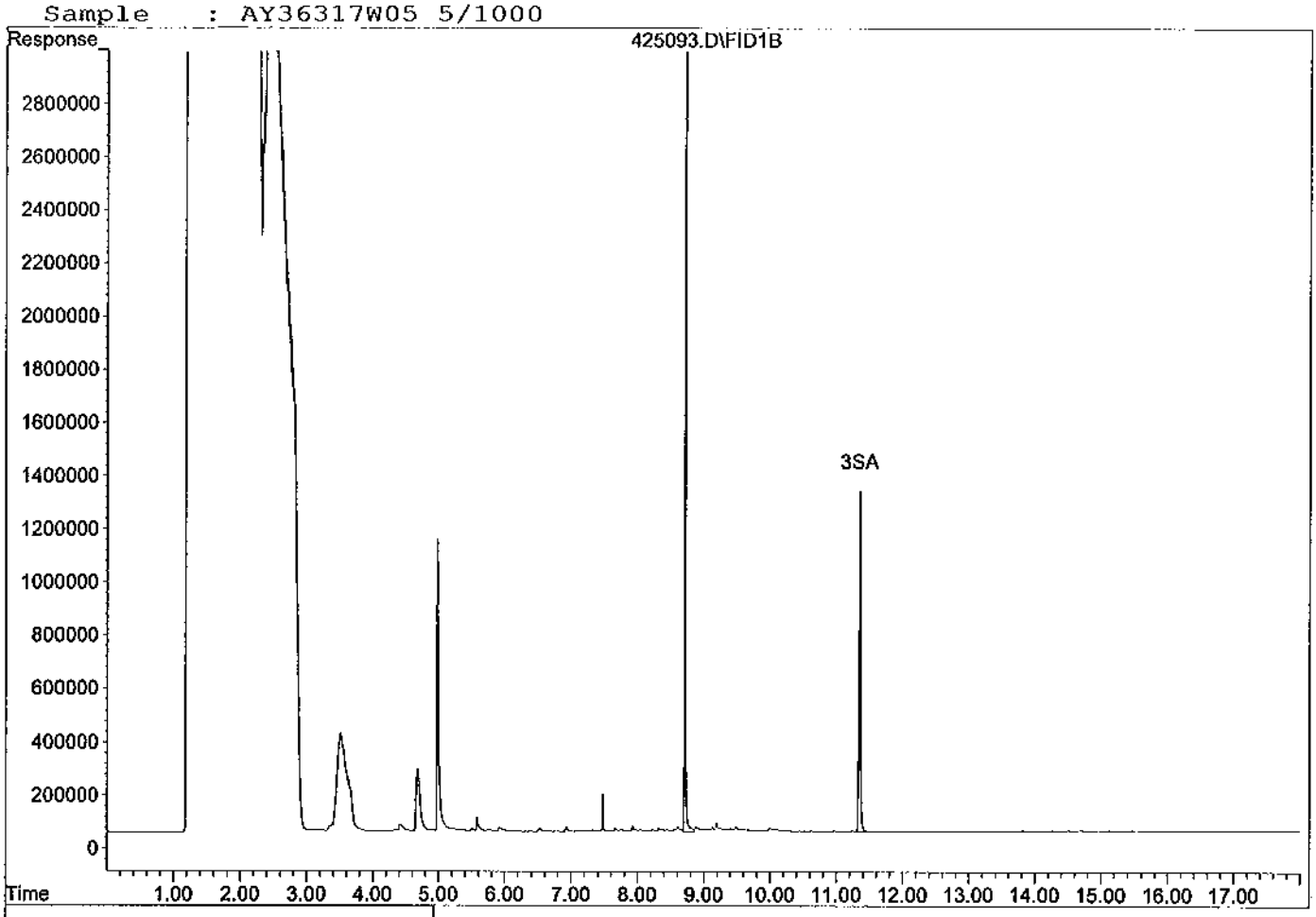
Data File : G:\APOLLO\DATA\110425\425093.D Vial: 93
Acq On : 4-27-11 15:17:24 Operator: LAC
Sample : AY36317W05 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: May 12 11:39 2011 Quant Results File: TPHODRO.RES

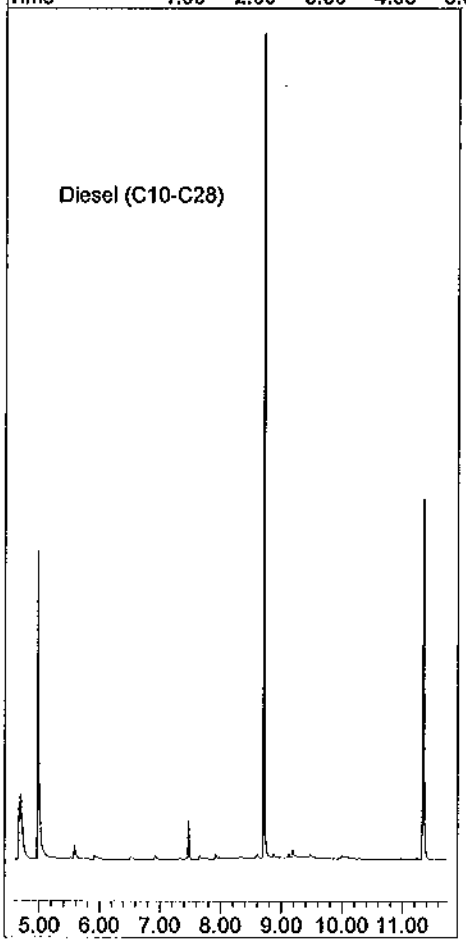
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.71	31498952	91.129 ppb
Surrogate Spike 150.000		Recovery =	60.75%
3) SA Octacosane(S)	11.35	19499922	84.913 ppb
Surrogate Spike 150.000		Recovery =	56.61%
Target Compounds			

Data File: G:\APOLLO\DATA\110425\425093.D
Sample : AY36317W05 5/1000





EPA 8015 Modified
Total Petroleum Hydrocarbons

Calibration Data

APPL, INC.

TPH Extractables
TPHODRO

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 64475
Case No: Initial Cal. Date: 04/22/11
Matrix: Instrument: Apollo Initials: LAC

			422004.D	422005.D	422006.D	422007.D	422008.D	422009.D					
		Compound	1	2	3	4	5	6		Avg	%RSD		
1	HATM	Diesel (C10-C28)	588896	605651	564267	563101	566081	559844		574640	3.2	HATM	
2	SA	Ortho-Terphenyl(S)	790967	1100428	805689	864346	777656	845708		864132	14	SA	
3	SA	Octacosane(S)	558338	571843	577087	583268	580825	573339		574116	1.5	SA	
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
32													
33													
34													
35													

0.5336295

Data File : G:\APOLLO\DATA\110422\422004.D
Acq On : 4-22-11 11:20:08
Sample : DIESEL 10/1000 4/22/11
Misc : Mix(A)
IntFile : events.e
Quant Time: Apr 27 13:53 2011 Quant Results File: TPHODRO.RES

Vial: 4
Operator: LAC
Inst : Apollo
Multiplr: 1.00

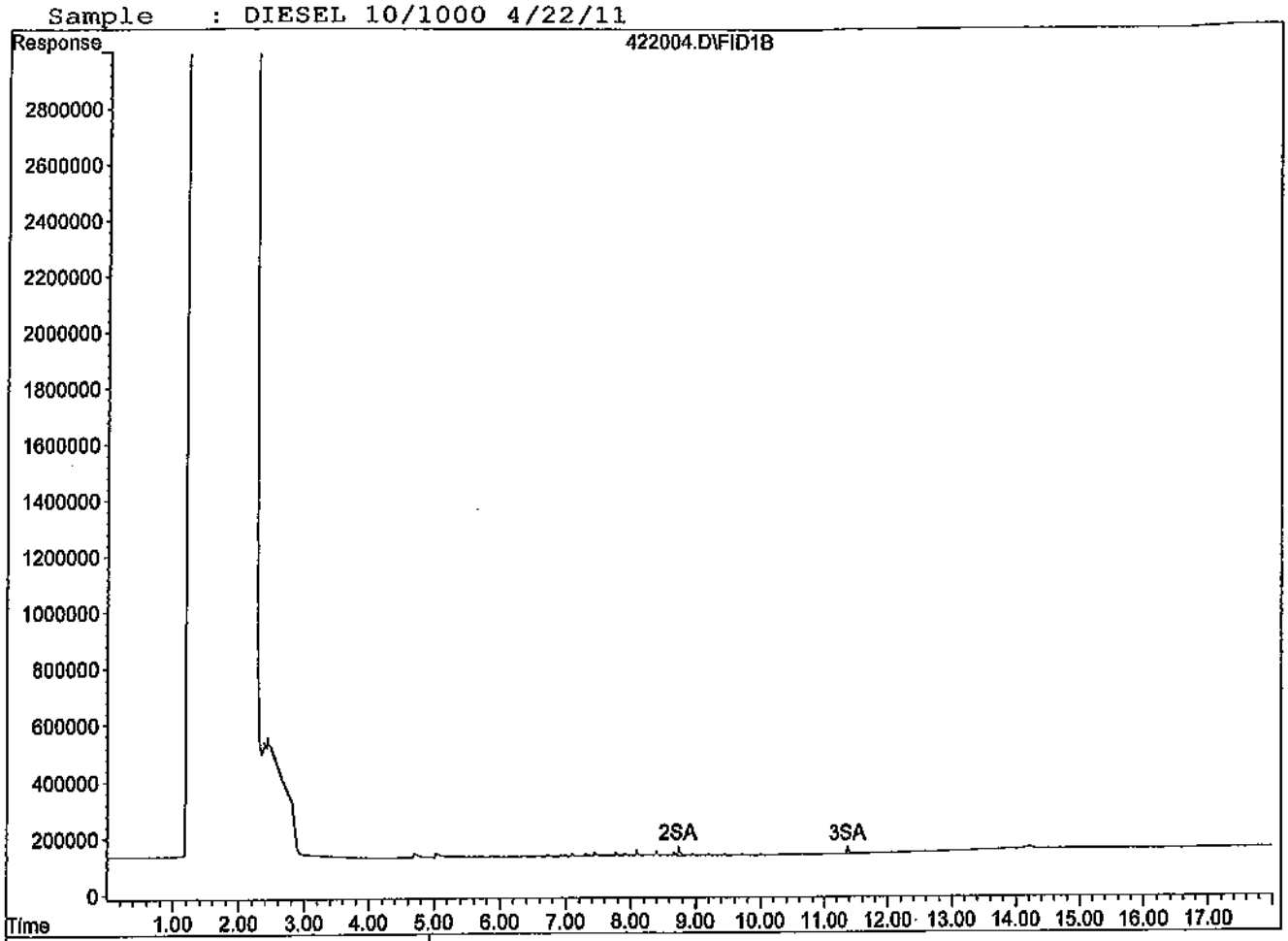
Method : G:\APOLLO\DATA\110422\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Apr 27 14:22:19 2011
Response via : Multiple Level Calibration

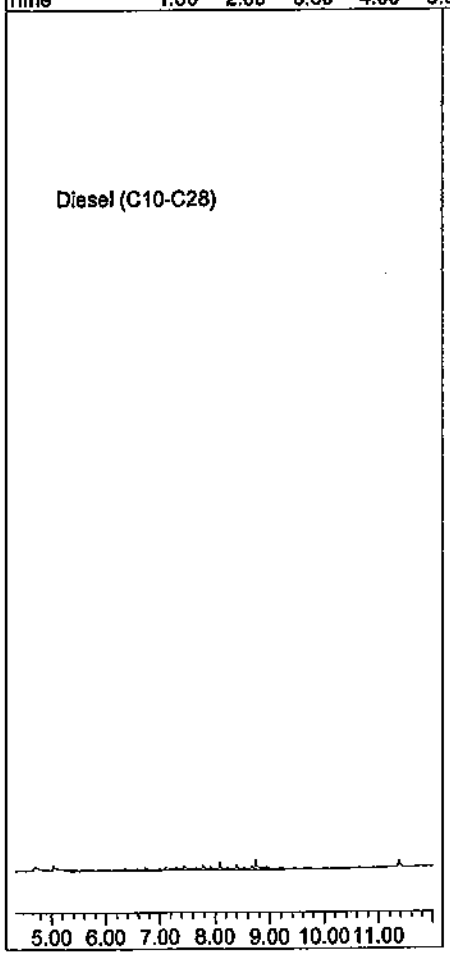
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.74	790967	0.458 ppb
Surrogate Spike 30.000	Recovery	=	1.53%
3) SA Octacosane(S)	11.38	558338	0.486 ppb
Surrogate Spike 30.000	Recovery	=	1.62%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	11777927	10.248 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\110422\422004.D
Sample : DIESEL 10/1000 4/22/11





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\110422\422005.D Vial: 5
Acq On : 4-22-11 11:45:11 Operator: LAC
Sample : DIESEL 100/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:54 2011 Quant Results File: TPHODRO.RES

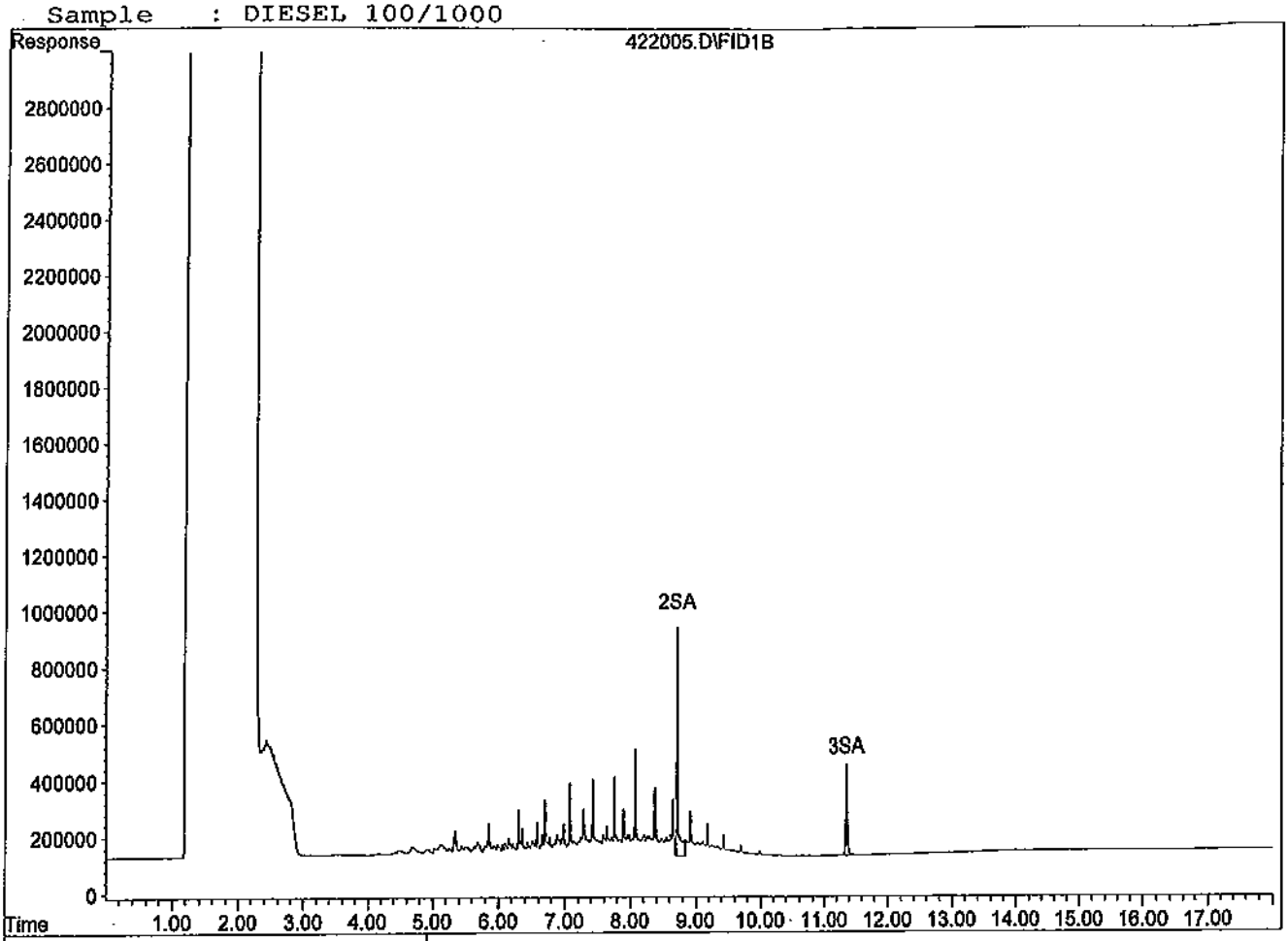
Method : G:\APOLLO\DATA\110422\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Apr 27 14:22:19 2011
Response via : Multiple Level Calibration

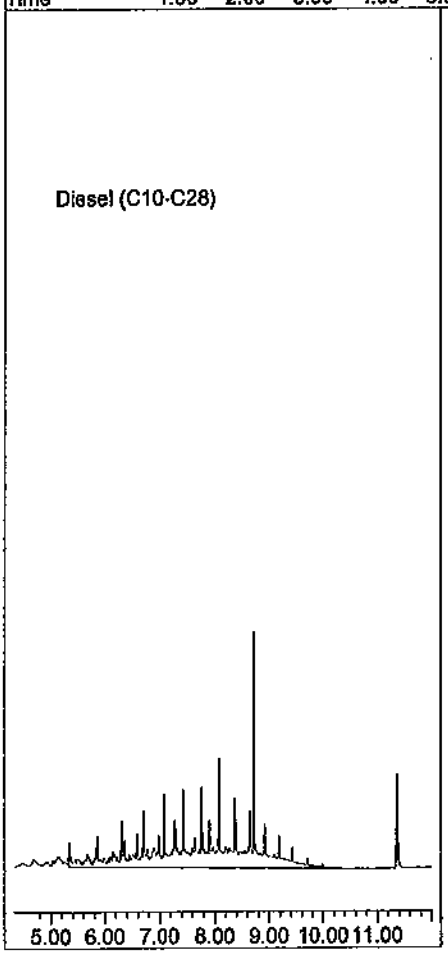
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.71	11004276	6.367 ppb
Surrogate Spike 30.000	Recovery	=	21.22%
3) SA Octacosane(S)	11.36	5718428	4.980 ppb
Surrogate Spike 30.000	Recovery	=	16.60%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	121130154	105.397 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\110422\422005.D
Sample : DIESEL 100/1000





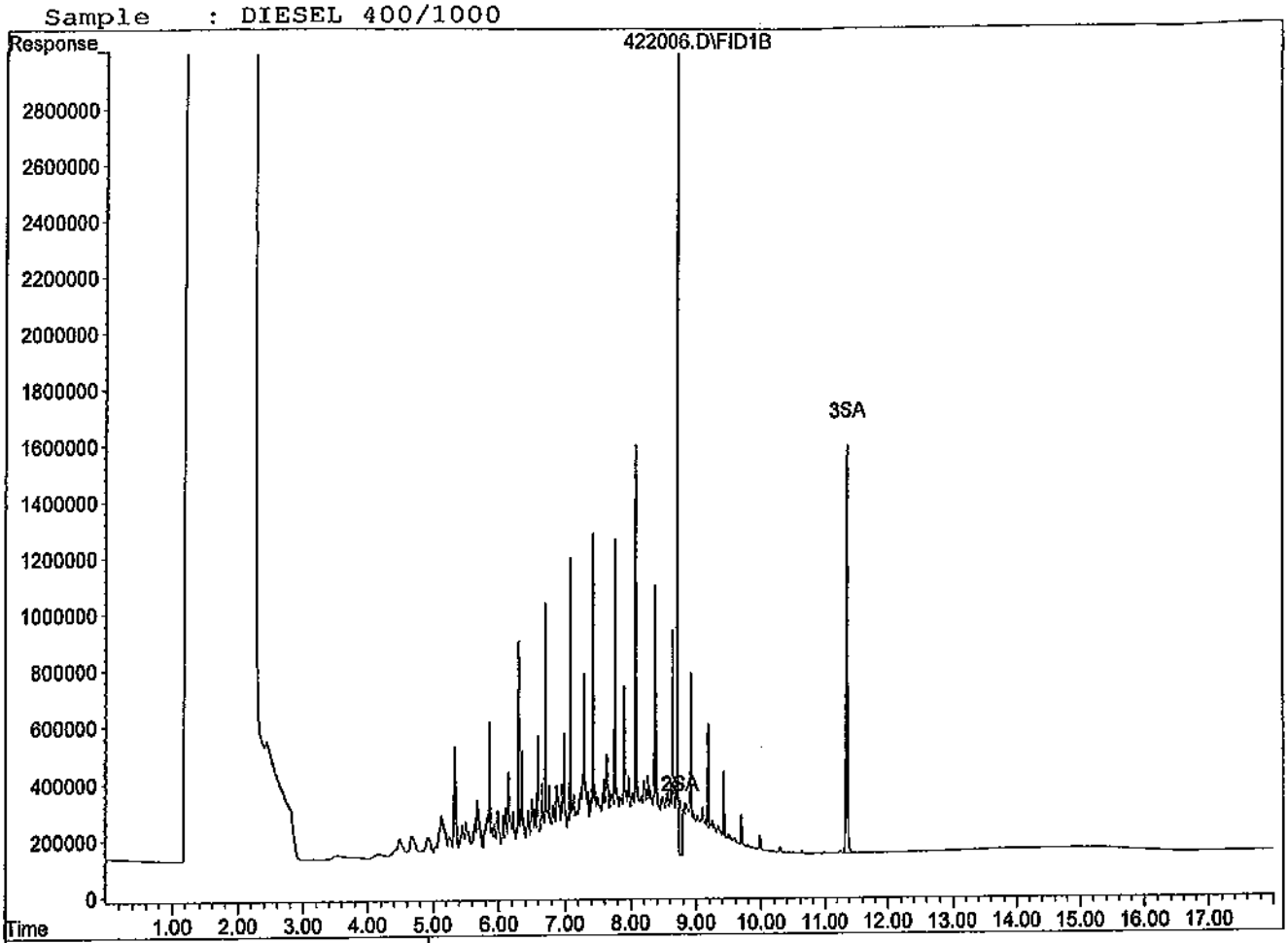
Data File : G:\APOLLO\DATA\110422\422006.D Vial: 6
Acq On : 4-22-11 12:10:19 Operator: LAC
Sample : DIESEL 400/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:54 2011 Quant Results File: TPHODRO.RES

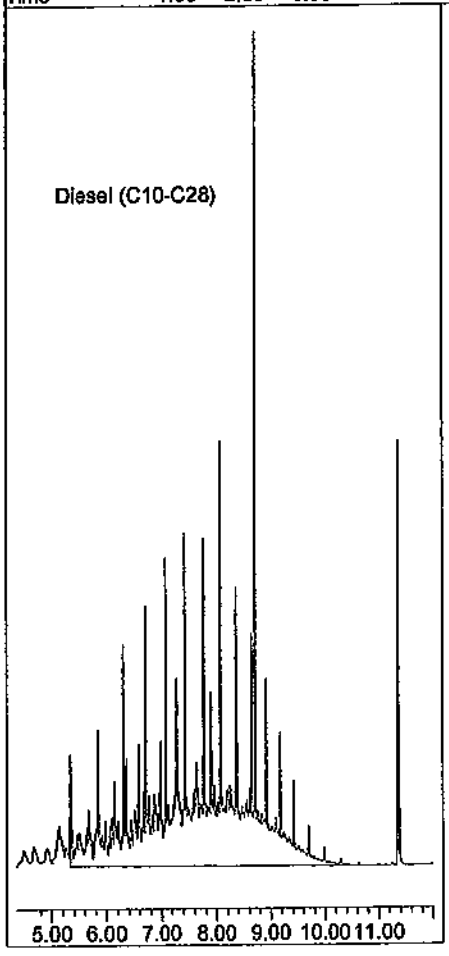
Method : G:\APOLLO\DATA\110422\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Apr 27 14:22:19 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.75	4956144	2.868 ppb
Surrogate Spike 30.000	Recovery =		9.56%
3) SA Octacosane(S)	11.36	23083461	20.103 ppb
Surrogate Spike 30.000	Recovery =		67.01%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	478684620	416.508 ppb

Data File: G:\APOLLO\DATA\110422\422006.D
Sample : DIESEL 400/1000





Quantitation Report (Not Reviewed)

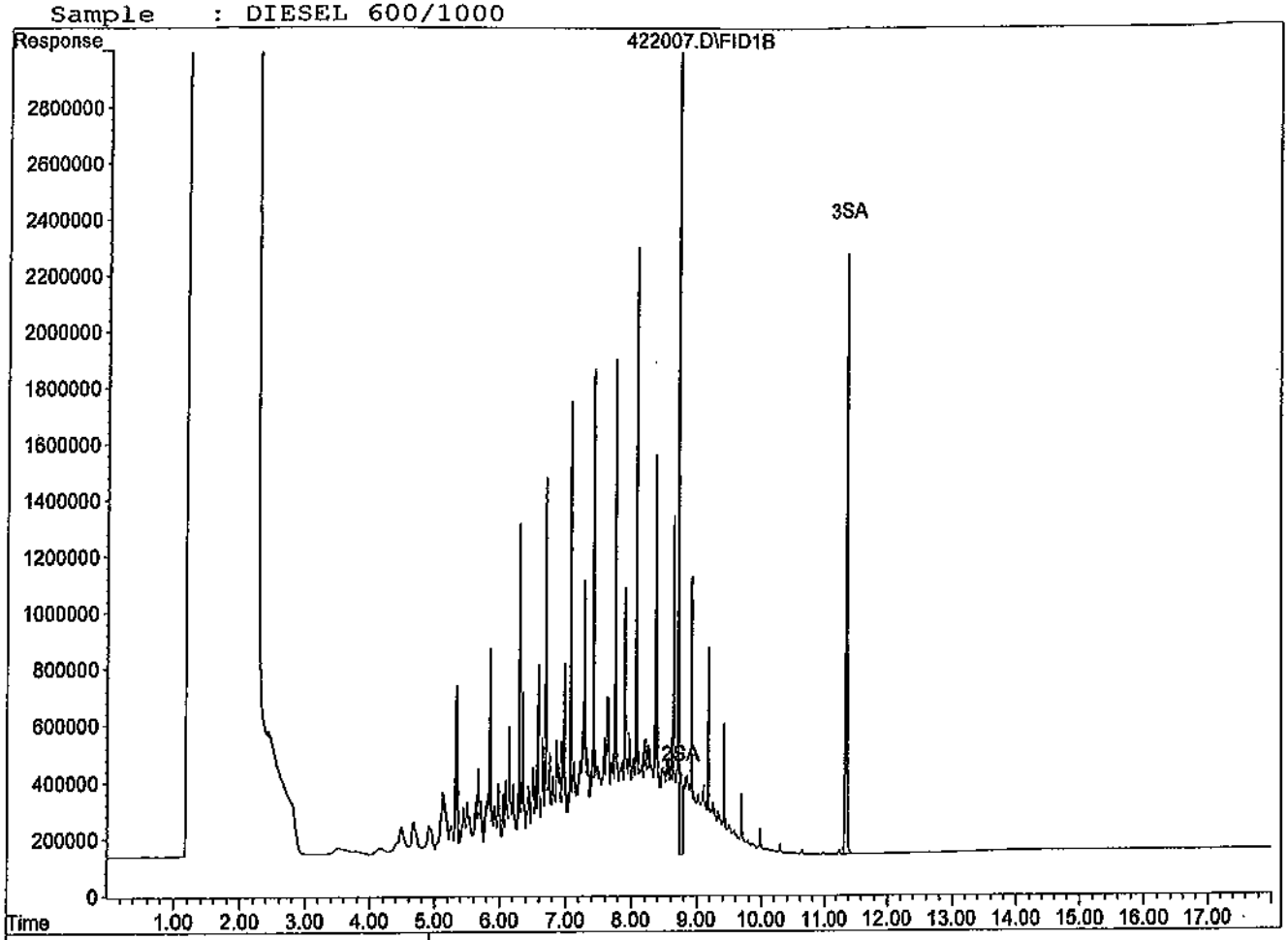
Data File : G:\APOLLO\DATA\110422\422007.D Vial: 7
Acq On : 4-22-11 12:35:32 Operator: LAC
Sample : DIESEL 600/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:54 2011 Quant Results File: TPHODRO.RES

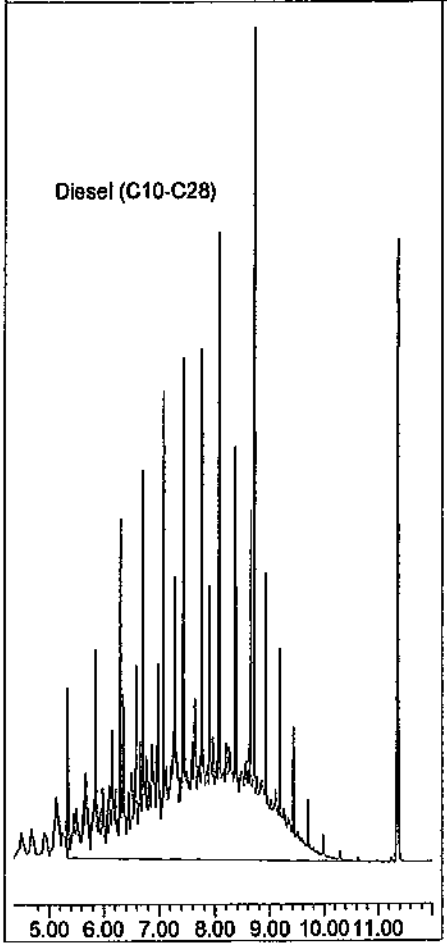
Method : G:\APOLLO\DATA\110422\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Apr 27 14:22:19 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.76	7984436	4.620 ppb
Surrogate Spike 30.000	Recovery =		15.40%
3) SA Octacosane(S)	11.36	34996058	30.478 ppb
Surrogate Spike 30.000	Recovery =		101.59%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	719597776	626.129 ppb

Data File: G:\APOLLO\DATA\110422\422007.D
Sample : DIESEL 600/1000





Quantitation Report (Not Reviewed)

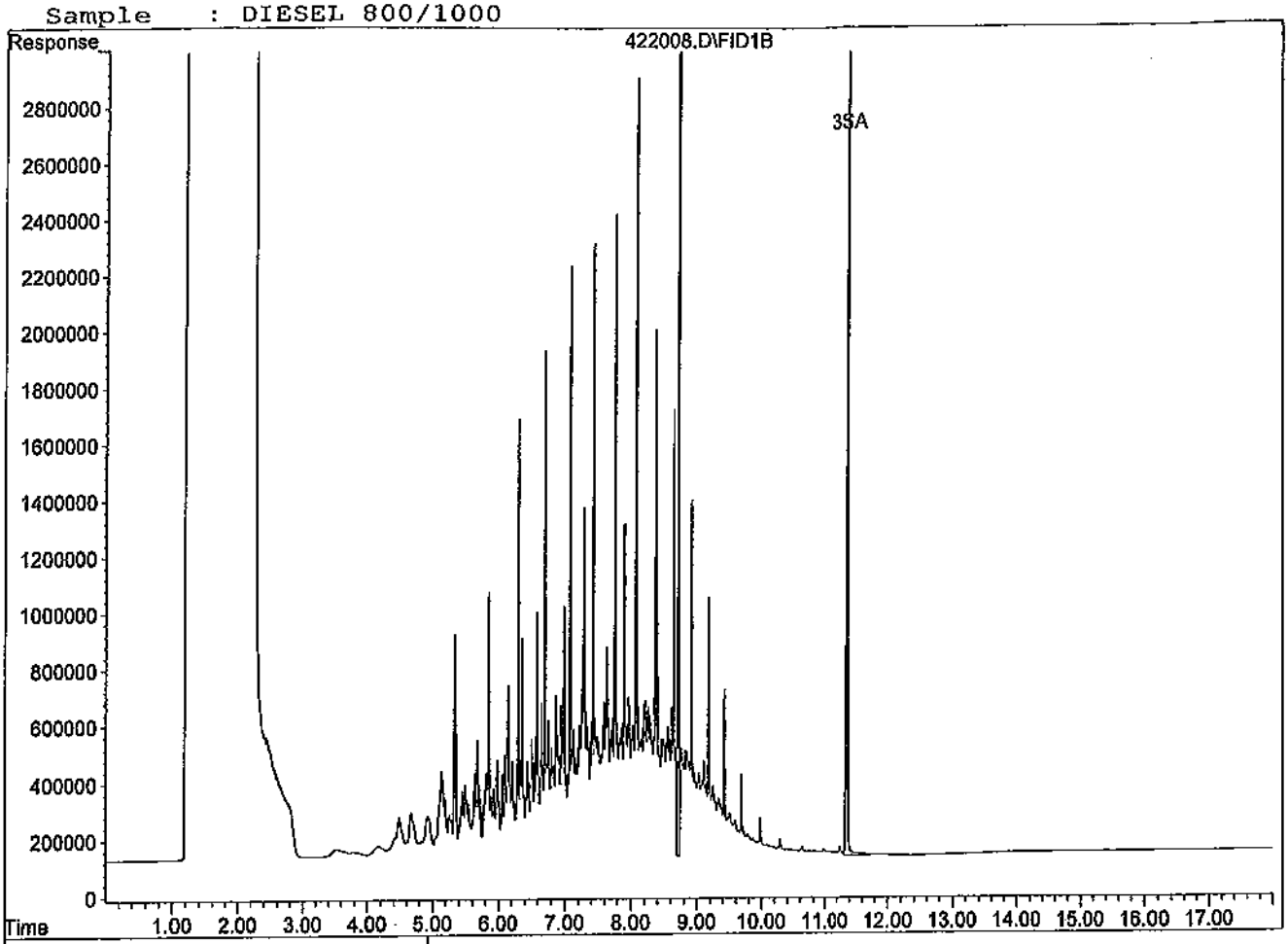
Data File : G:\APOLLO\DATA\110422\422008.D Vial: 8
Acq On : 4-22-11 13:00:52 Operator: LAC
Sample : DIESEL 800/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:54 2011 Quant Results File: TPHODRO.RES

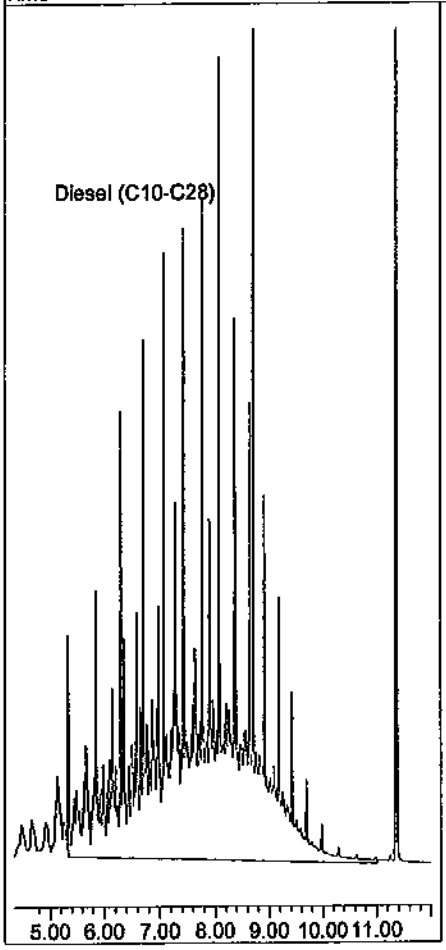
Method : G:\APOLLO\DATA\110422\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Apr 27 14:22:19 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.71	62212497	35.997 ppb
Surrogate Spike 30.000	Recovery =		119.99%
3) SA Octacosane(S)	11.37	46465994	40.467 ppb
Surrogate Spike 30.000	Recovery =		134.89%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	905729109	788.084 ppb

Data File: G:\APOLLO\DATA\110422\422008.D
Sample : DIESEL 800/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\110422\422009.D Vial: 9
Acq On : 4-22-11 13:26:13 Operator: LAC
Sample : DIESEL 1000/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 13:55 2011 Quant Results File: TPHODRO.RES

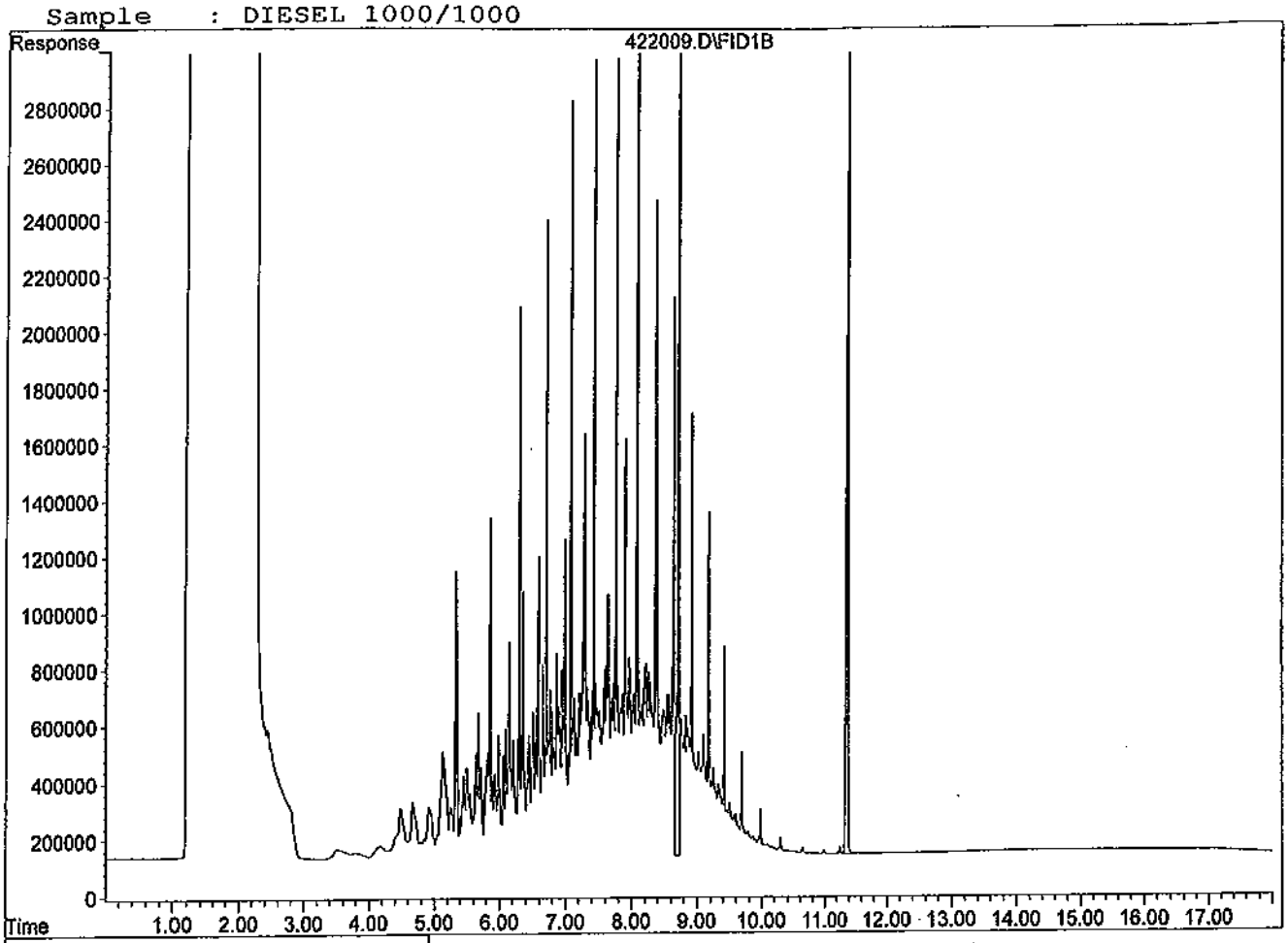
Method : G:\APOLLO\DATA\110422\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Apr 27 14:22:19 2011
Response via : Multiple Level Calibration

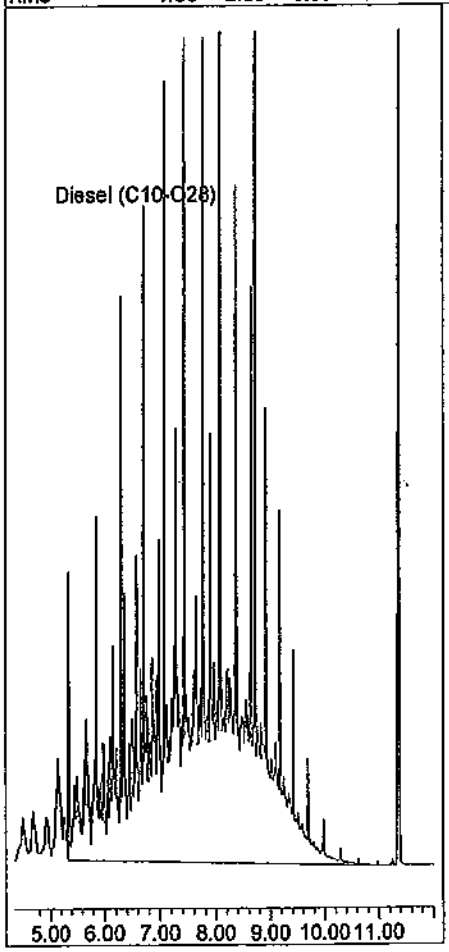
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.72	84570832	48.934 ppb
Surrogate Spike 30.000	Recovery =		163.11%
3) SA Octacosane(S)	11.37	57333895	49.932 ppb
Surrogate Spike 30.000	Recovery =		166.44%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	1119688113	974.252 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\110422\422009.D
Sample : DIESEL 1000/1000





TPH Extractables
TPHODRO

Form 7

Second Source Calibration

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

SDG No: 64475
Date Analyzed: 04/22/11
Instrument: Apollo
Initial Cal. Date: 04/22/11
Data File: 422016.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	574640	568850	1.0	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			1.0		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\110422\422016.D
Acq On : 4-22-11 16:19:58
Sample : DIESEL 2ND SRC 400/1000 4/22/11
Misc : Mix(A)
IntFile : events.e
Quant Time: Apr 27 13:55 2011 Quant Results File: TPHODRO.RES

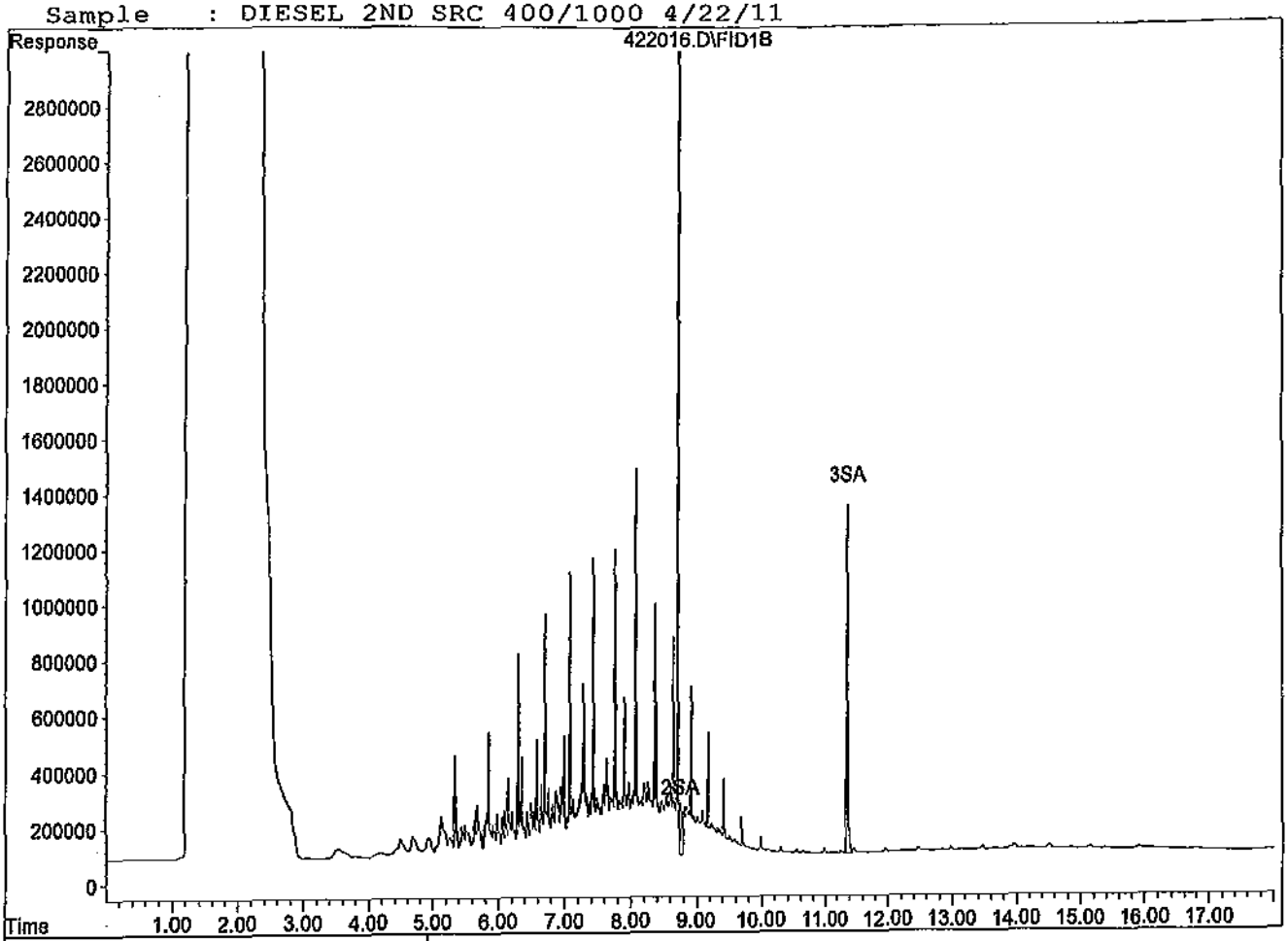
Vial: 16
Operator: LAC
Inst : Apollo
Multiplr: 1.00

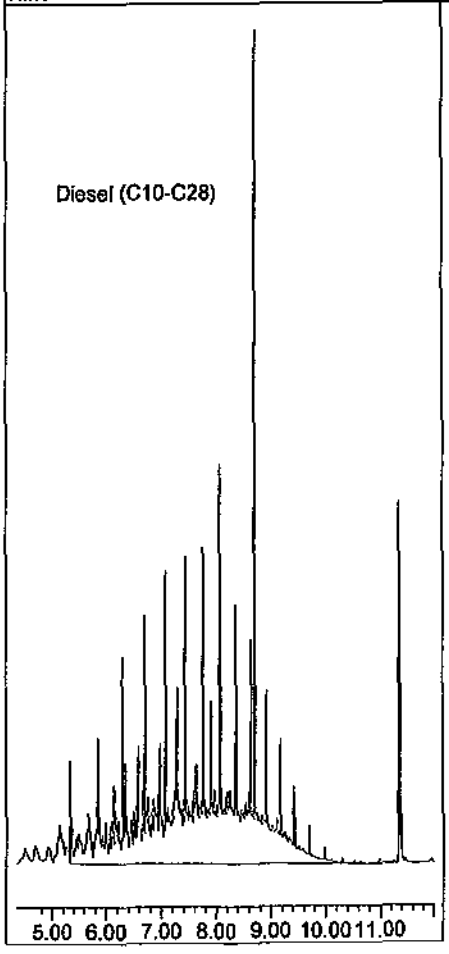
Method : G:\APOLLO\DATA\110422\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Wed Apr 27 14:22:19 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.76	4851429	2.807 ppb
Surrogate Spike 30.000	Recovery =		9.36%
3) SA Octacosane(S)	11.36	20171039	17.567 ppb
Surrogate Spike 30.000	Recovery =		58.56%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	455080132	395.970 ppb

Data File: G:\APOLLO\DATA\110422\422016.D
Sample : DIESEL 2ND SRC 400/1000 4/22/11





Form 7

Continuing Calibration

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

SDG No: 64475
Date Analyzed: 04/27/11
Instrument: Apollo
Initial Cal. Date: 04/25/11
Data File: 425078.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	574640	652552	14	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			14.0		

Quantitation Report (Not Reviewed)

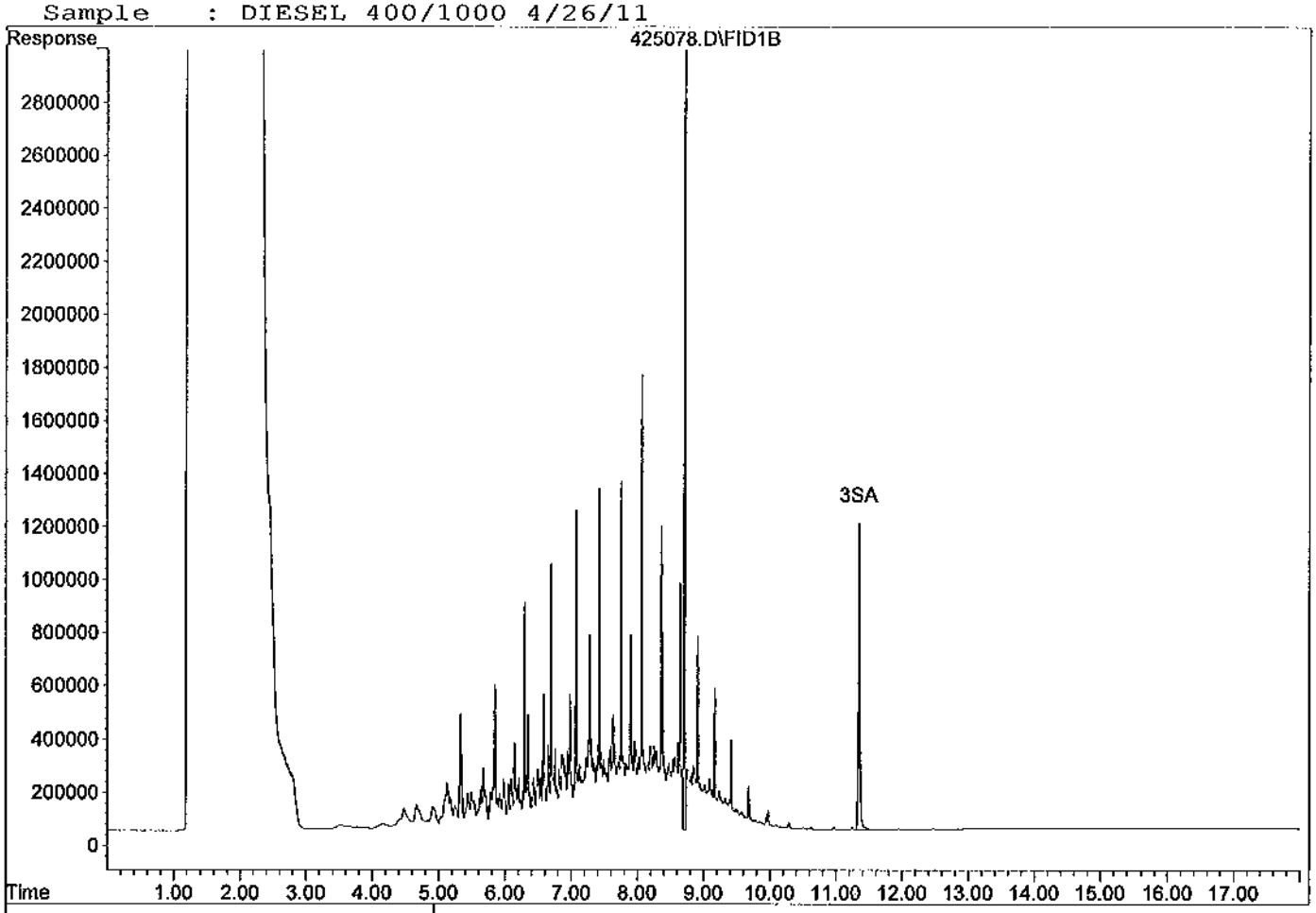
Data File : G:\APOLLO\DATA\110425\425078.D Vial: 78
Acq On : 4-27-11 9:05:43 Operator: LAC
Sample : DIESEL 400/1000 4/26/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: May 12 10:42 2011 Quant Results File: TPHODRO.RES

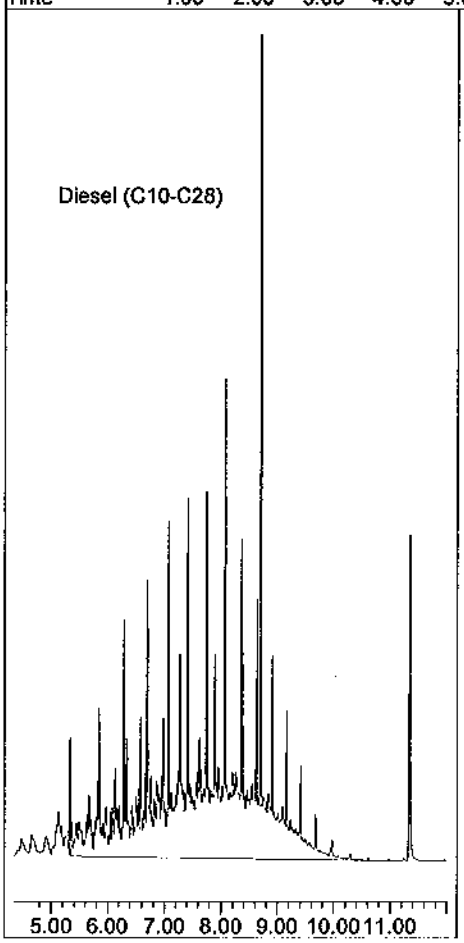
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	36414017	21.070 ppb
Surrogate Spike 30.000	Recovery =		70.23%
3) SA Octacosane(S)	11.35	19265760	16.779 ppb
Surrogate Spike 30.000	Recovery =		55.93%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	522041292	454.233 ppb

Data File: G:\APOLLO\DATA\110425\425078.D
Sample : DIESEL 400/1000 4/26/11





Form 7

Continuing Calibration

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

SDG No: 64475
Date Analyzed: 04/27/11
Instrument: Apollo
Initial Cal. Date: 04/25/11
Data File: 425082.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	574640	661598	15	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			15.0		

Quantitation Report (Not Reviewed)

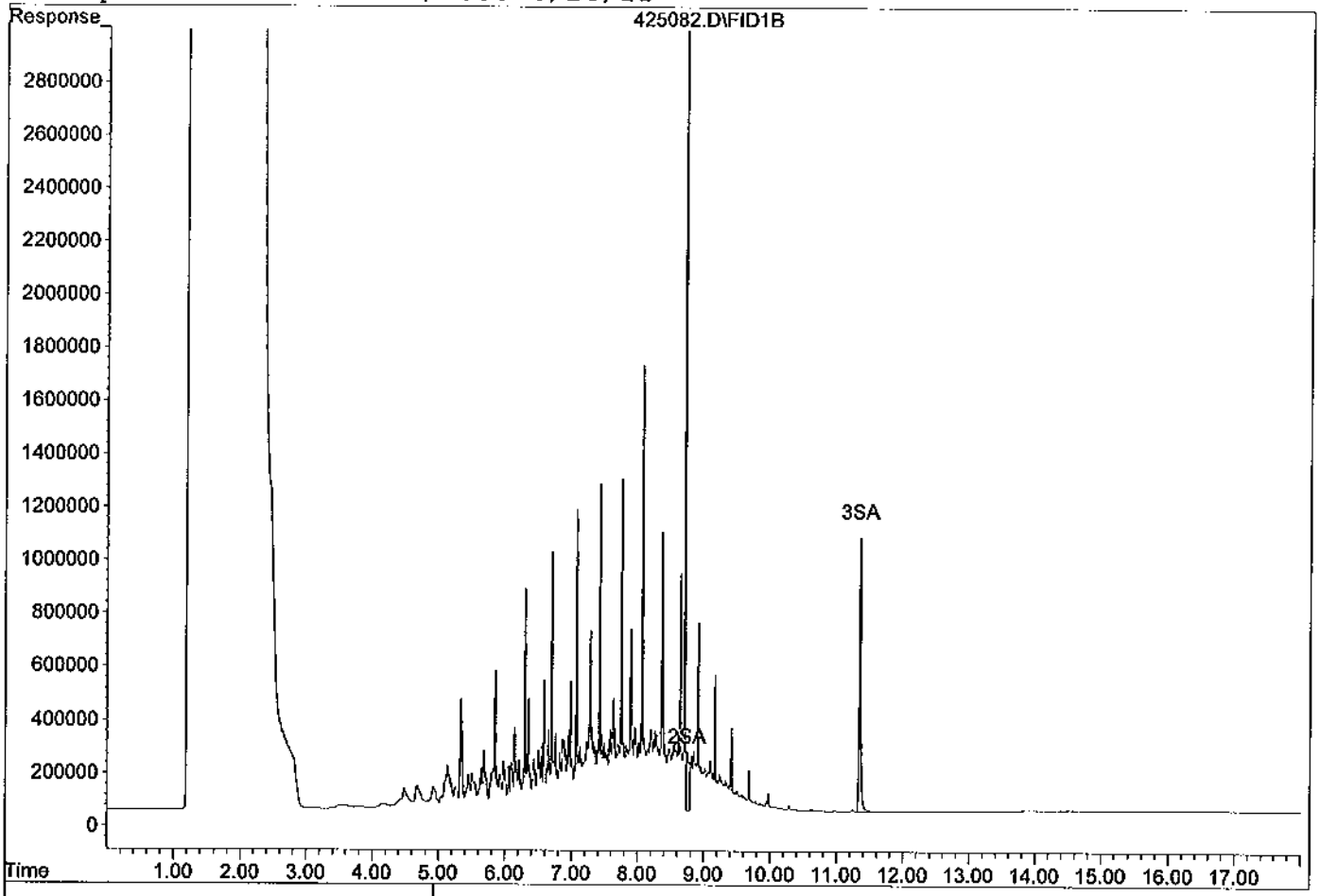
Data File : G:\APOLLO\DATA\110425\425082.D Vial: 82
Acq On : 4-27-11 10:44:29 Operator: LAC
Sample : DIESEL 400/1000 4/26/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 11:07 2011 Quant Results File: TPHODRO.RES

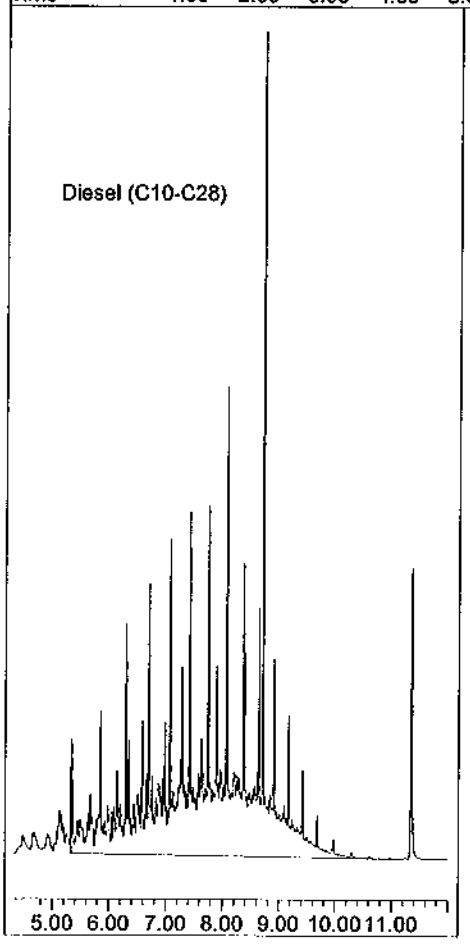
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.75	6276102	3.631 ppb
Surrogate Spike 30.000	Recovery	=	12.10%
3) SA Octacosane(S)	11.35	17904913	15.593 ppb
Surrogate Spike 30.000	Recovery	=	51.98%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	529278658	460.531 ppb

Data File: G:\APOLLO\DATA\110425\425082.D
Sample : DIESEL 400/1000 4/26/11





Form 7

Continuing Calibration

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

SDG No: 64475
Date Analyzed: 04/27/11
Instrument: Apollo
Initial Cal. Date: 04/25/11
Data File: 425094.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	574640	614503	6.9	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			6.9		

Quantitation Report (Not Reviewed)

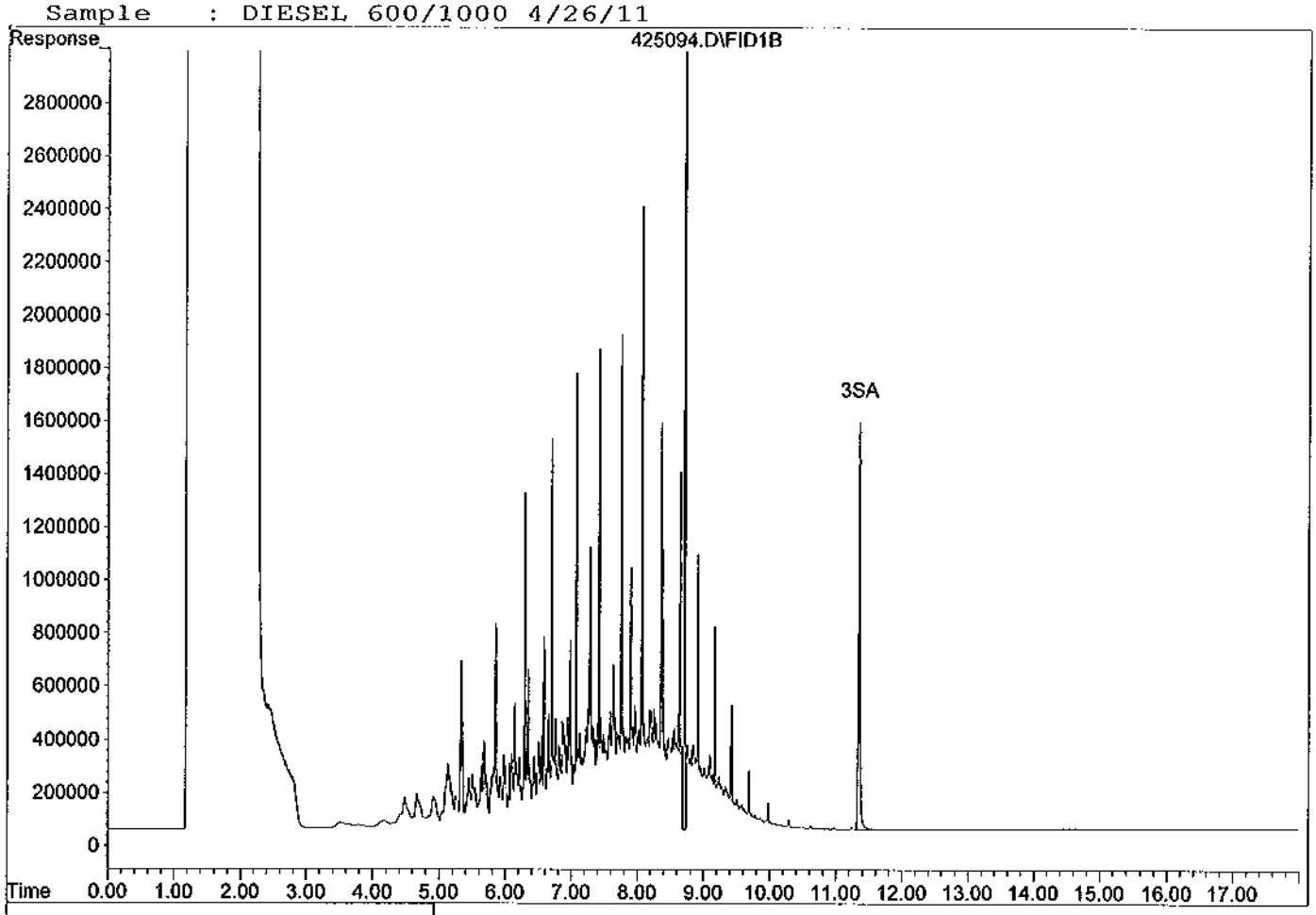
Data File : G:\APOLLO\DATA\110425\425094.D Vial: 94
Acq On : 4-27-11 15:41:55 Operator: LAC
Sample : DIESEL 600/1000 4/26/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 27 16:01 2011 Quant Results File: TPHODRO.RES

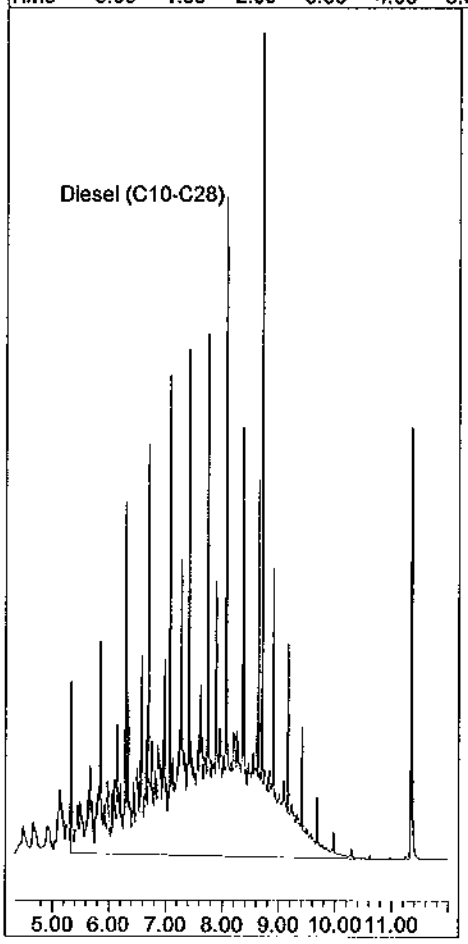
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.71	50981813	29.499 ppb
Surrogate Spike 30.000	Recovery =		98.33%
3) SA Octacosane(S)	11.35	26363165	22.960 ppb
Surrogate Spike 30.000	Recovery =		76.53%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	737403806	641.622 ppb

Data File: G:\APOLLO\DATA\110425\425094.D
Sample : DIESEL 600/1000 4/26/11





EPA 8015 Modified
Total Petroleum Hydrocarbons
Raw Data

Method Blank
TPH Diesel Water

Blank Name/QCG: **110426W-36312 - 155042**
Batch ID: #TPETD-110426A

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	04/26/11	04/27/11
BLANK	SURROGATE: OCTACOSANE (S)	61.7	28-142			%	04/26/11	04/27/11
BLANK	SURROGATE: ORTHO-TERPHEN	62.3	57-132			%	04/26/11	04/27/11

Quant Method: TPHODRO.M
Run #: 425079
Instrument: Apollo
Sequence: 110425
Initials: TRL

GC SC-Blank-REG MDLs
Printed: 05/13/11 3:48:51 PM

Quantitation Report (QT Reviewed)

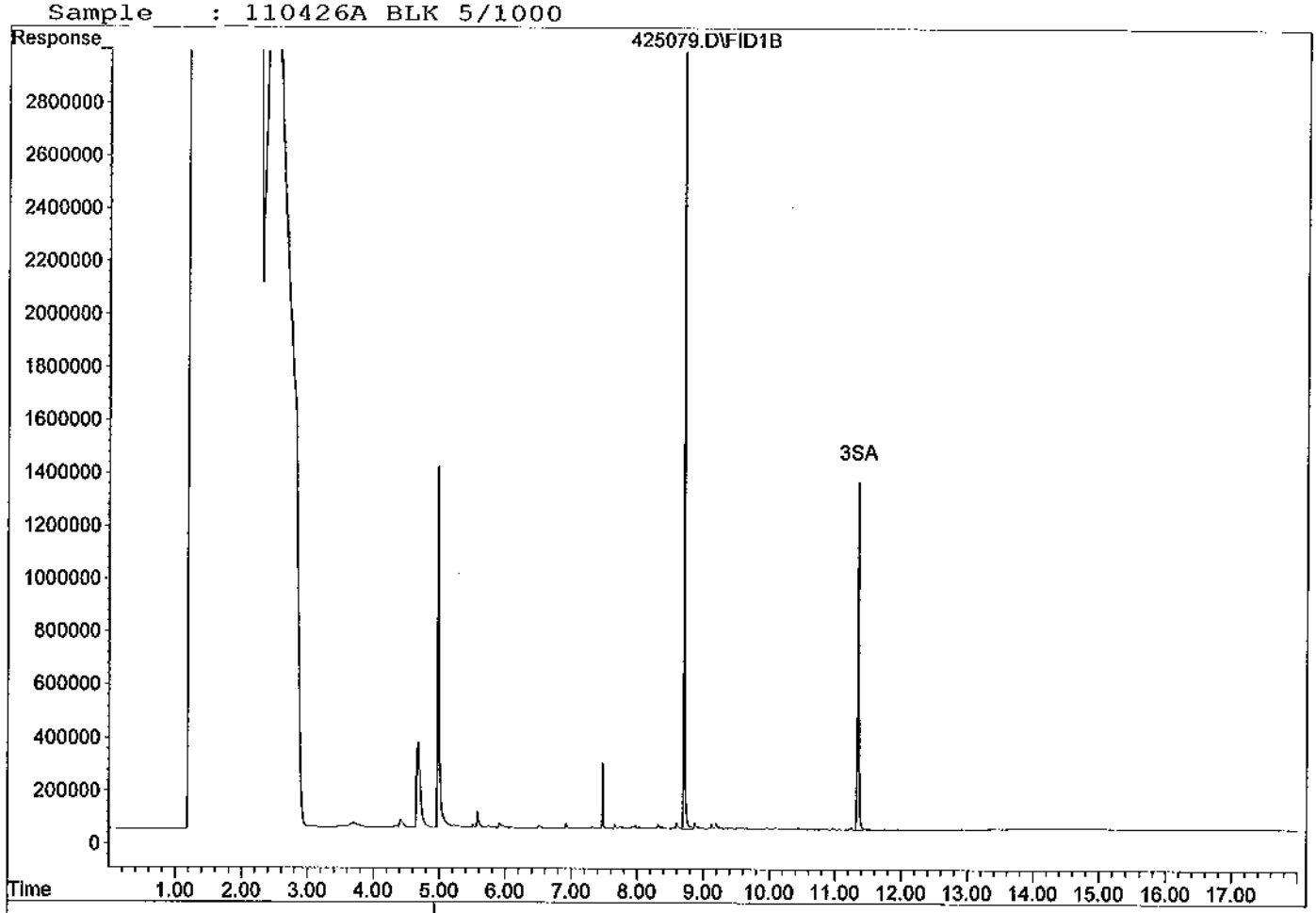
Data File : G:\APOLLO\DATA\110425\425079.D Vial: 79
Acq On : 4-27-11 9:30:28 Operator: LAC
Sample : 110426A BLK 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Apr 27 11:17 2011 Quant Results File: TPHODRO.RES

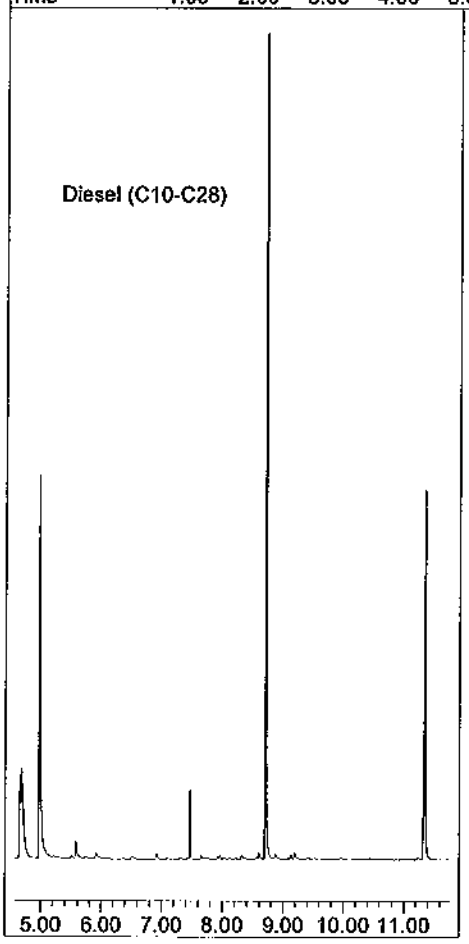
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.71f	32314084	93.487 ppb
Surrogate Spike 150.000		Recovery =	62.32%
3) SA Octacosane(S)	11.35	21259168	92.573 ppb
Surrogate Spike 150.000		Recovery =	61.72%
Target Compounds			

Data File: G:\APOLLO\DATA\110425\425079.D
Sample : 110426A BLK 5/1000





Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **110426W-36312 LCS - 155042**
Batch ID: #TPETD-110426A

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	1500	75.0	61-143
SURROGATE: OCTACOSANE (S)	150	97.8	65.2	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	116	77.3	57-132

Comments: _____

Primary	SPK
Quant Method :	TPHODRO.M
Extraction Date :	04/26/11
Analysis Date :	04/27/11
Instrument :	Apollo
Run :	425080
Initials :	TRL

Printed: 05/12/11 1:50:54 PM

APPL Standard LCS

Quantitation Report (Not Reviewed)

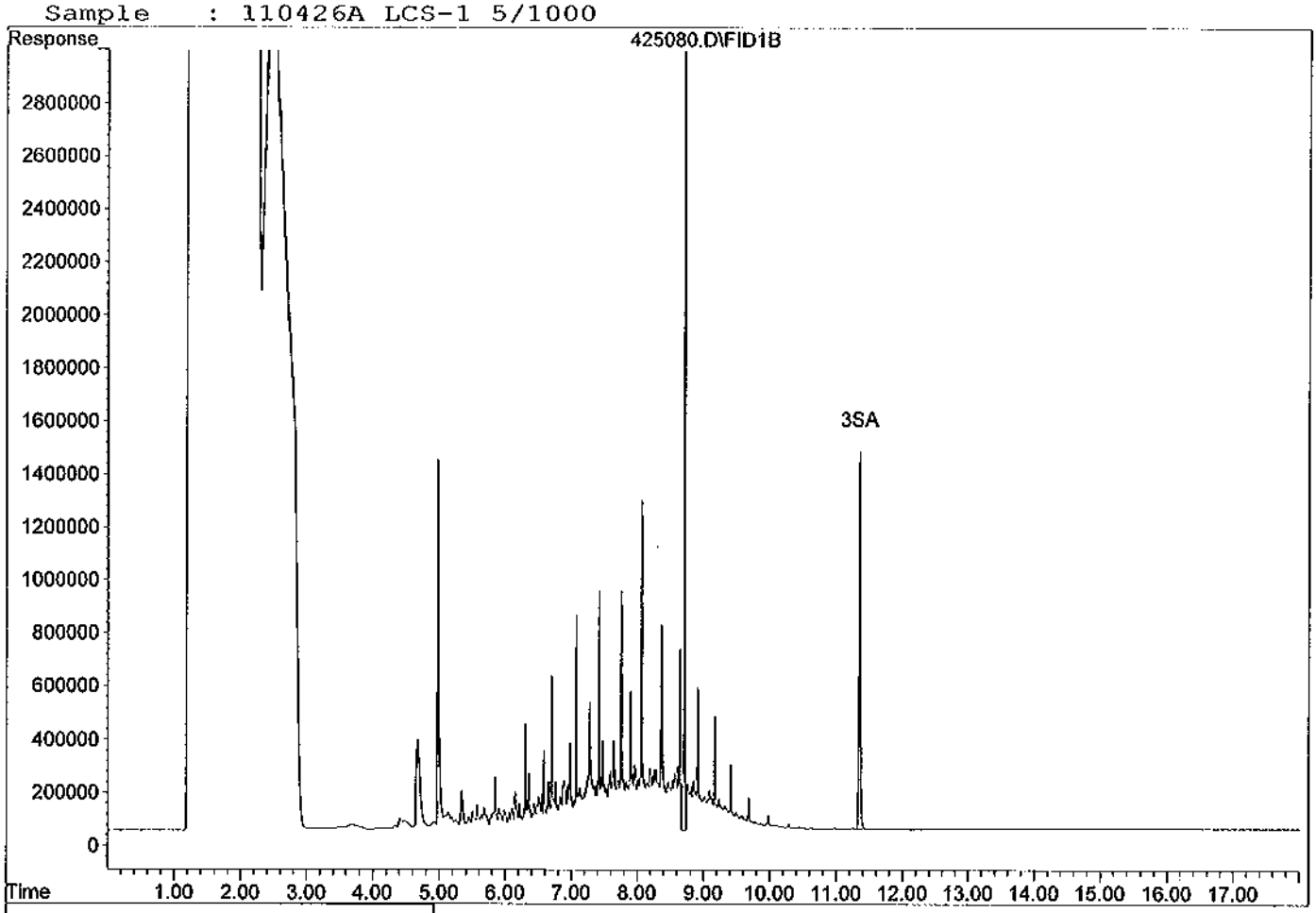
Data File : G:\APOLLO\DATA\110425\425080.D Vial: 80
Acq On : 4-27-11 9:54:57 Operator: LAC
Sample : 110426A LCS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Apr 27 14:22 2011 Quant Results File: TPHODRO.RES

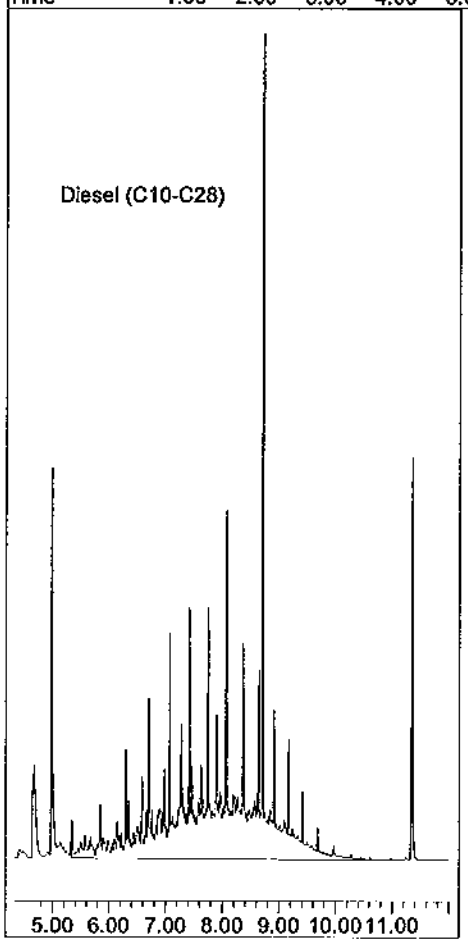
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.71	40054584	115.881 ppb
Surrogate Spike 150.000		Recovery =	77.25%
3) SA Octacosane(S)	11.35	22457909	97.793 ppb
Surrogate Spike 150.000		Recovery =	65.20%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	343757900	1495.536 ppb

Data File: G:\APOLLO\DATA\110425\425080.D
Sample : 110426A LCS-1 5/1000





Matrix Spike Recoveries

TPH Diesel Water

APPL ID: **110426W-36312 MS - 155042**
Batch ID: #TPETD-110426A
Sample ID: AY36312
Client ID: ES020

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	1100	2470	1910	68.5	40.5 #	61-143	25.6	30
SURROGATE: OCTACOSANE (S)	150	NA	99.0	71.5	66.0	47.7	28-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	NA	119	88.6	79.3	59.1	57-132		

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	TPHODRO.M	TPHODRO.M
Extraction Date :	04/26/11	04/26/11
Analysis Date :	04/27/11	04/27/11
Instrument :	Apollo	Apollo
Run :	425086	425089
Initials :	TRL	

Printed: 05/12/11 1:50:57 PM
APPL MSD SCII

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\110425\425088.D
Acq On : 4-27-11 13:13:59
Sample : AY36312W19 MS-1 5/1040
Misc : Water
IntFile : events.e
Quant Time: May 12 11:39 2011 Quant Results File: TPHODRO.RES

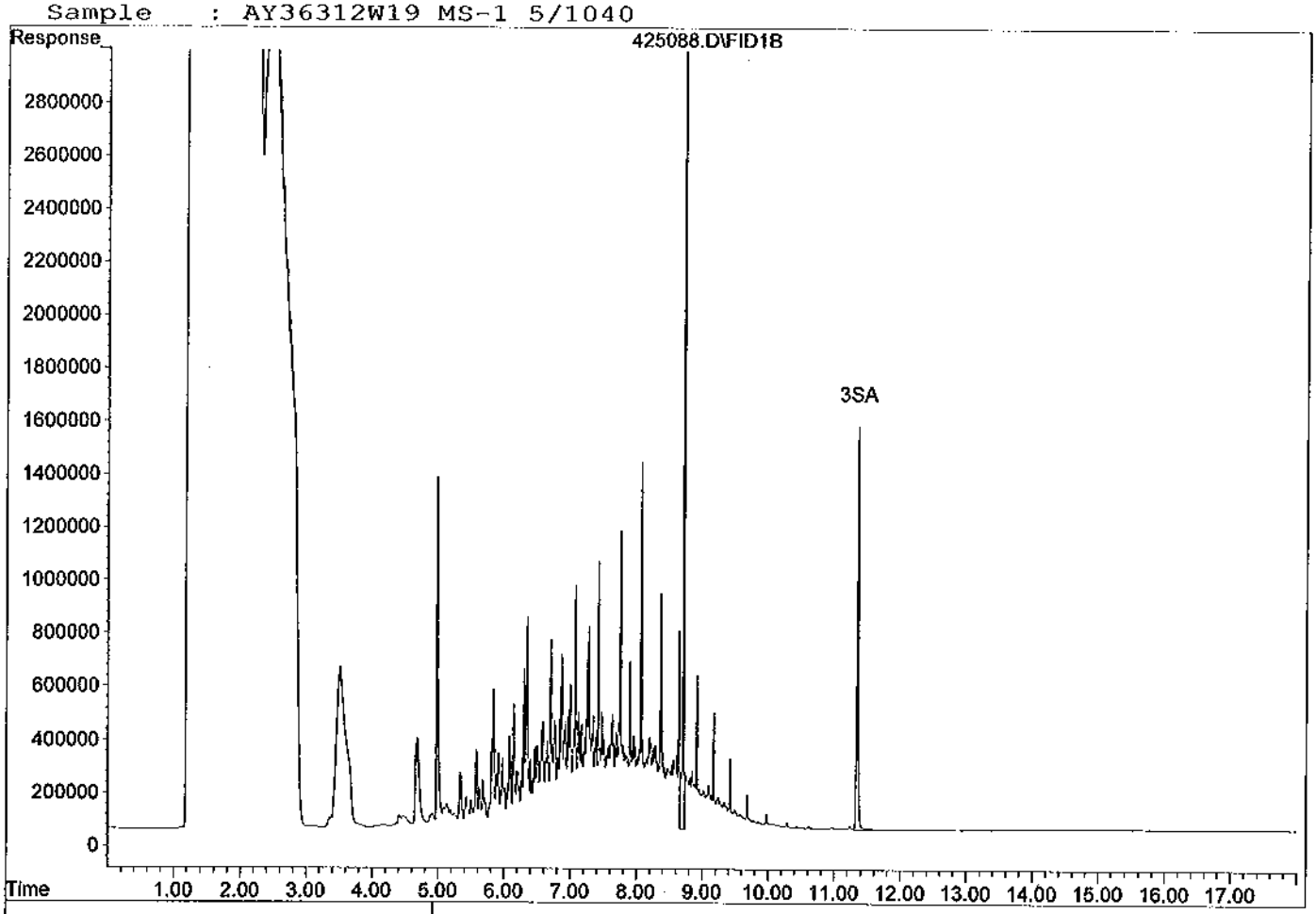
Vial: 88
Operator: LAC
Inst : Apollo
Multiplr: 4.81

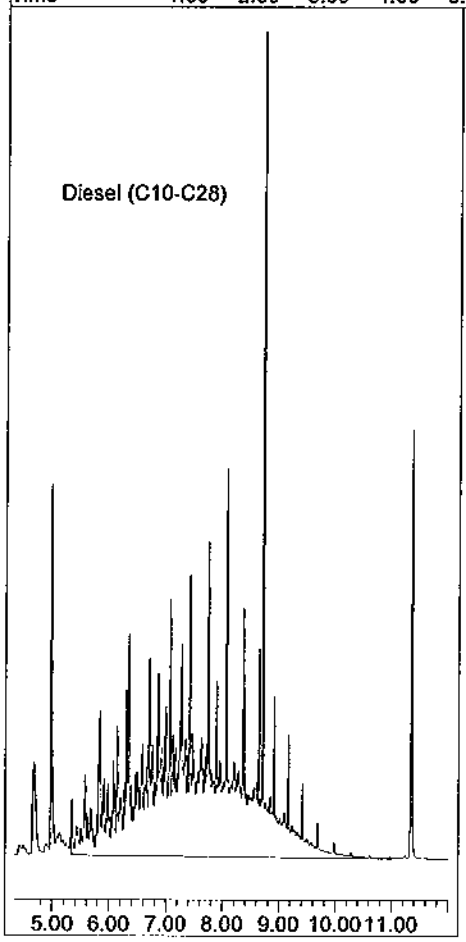
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.71	42839209	119.170 ppb
Surrogate Spike 144.231		Recovery =	82.62%
3) SA Octacosane(S)	11.35	23650590	99.026 ppb
Surrogate Spike 144.231		Recovery =	68.66%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	590708458	2471.063 ppb

Data File: G:\APOLLO\DATA\110425\425088.D
Sample : AY36312W19 MS-1 5/1040





Quantitation Report (Not Reviewed)

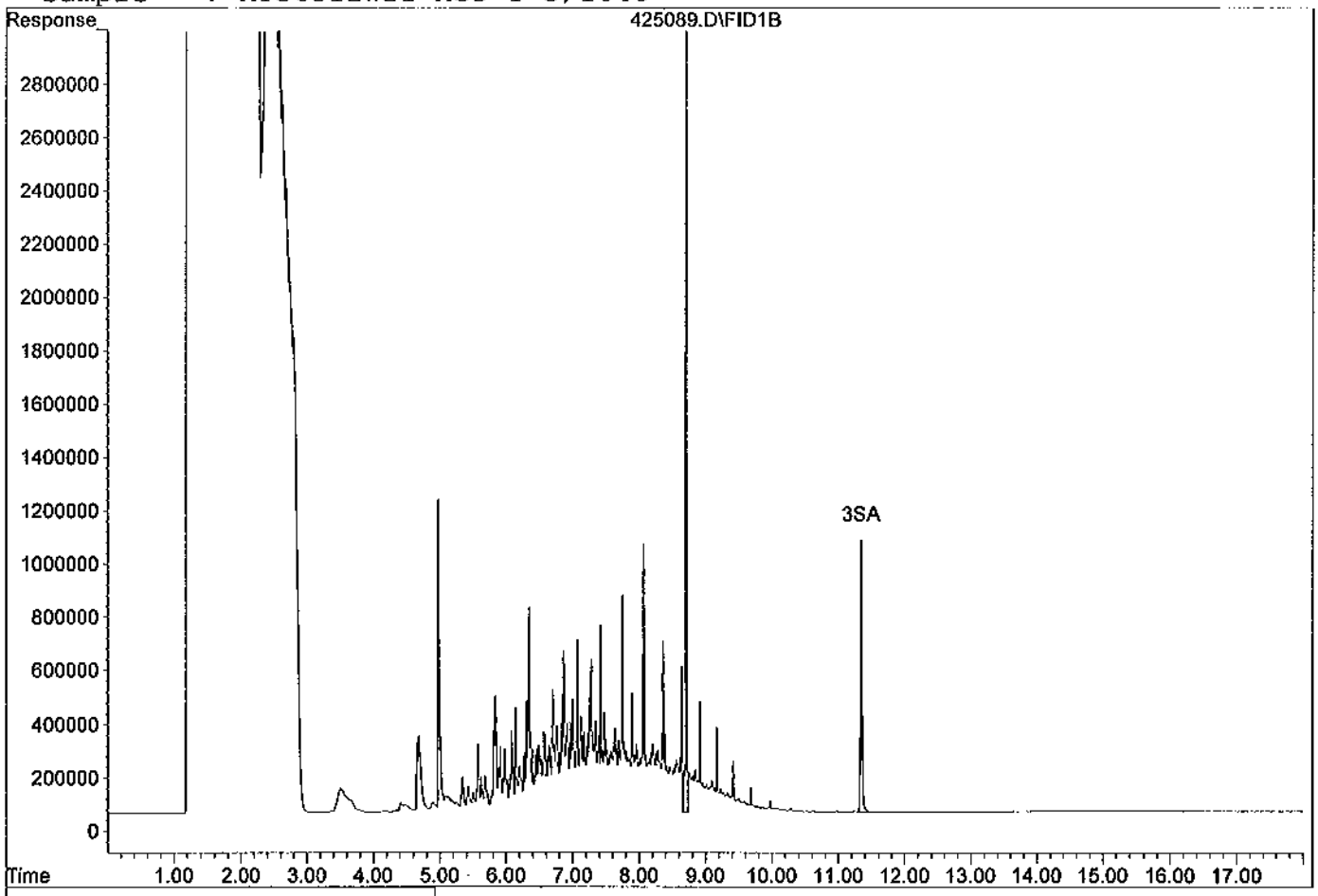
Data File : G:\APOLLO\DATA\110425\425089.D Vial: 89
Acq On : 4-27-11 13:38:25 Operator: LAC
Sample : AY36312W21 MSD-1 5/1040 Inst : Apollo
Misc : Water Multiplr: 4.81
IntFile : events.e
Quant Time: May 12 11:39 2011 Quant Results File: TPHODRO.RES

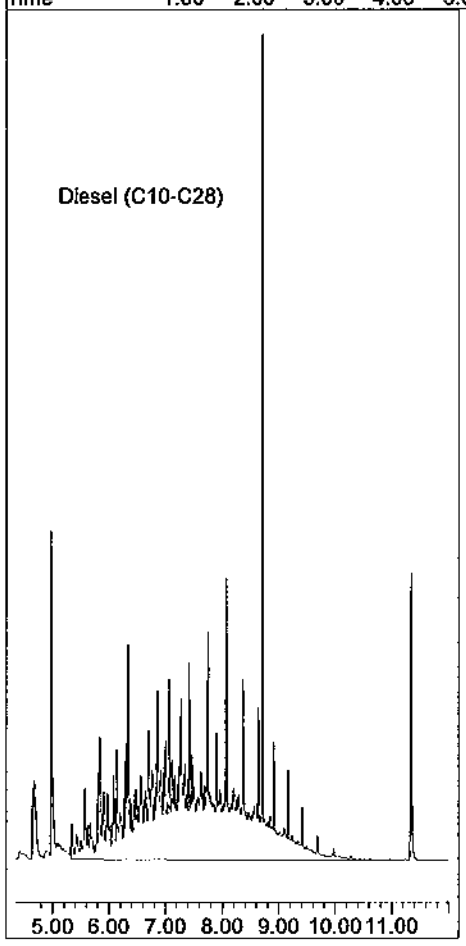
Method : G:\APOLLO\DATA\110425\TPHODRO.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue Apr 26 10:54:02 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SA Ortho-Terphenyl(S)	8.70	31849771	88.600 ppb
Surrogate Spike 144.231		Recovery =	61.43%
3) SA Octacosane(S)	11.35	17087906	71.548 ppb
Surrogate Spike 144.231		Recovery =	49.61%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	456612617	1910.111 ppb

Data File: G:\APOLLO\DATA\110425\425089.D
Sample : AY36312W21 MSD-1 5/1040





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

THC SURROGATE * CAME TO EXTRACTION

O-TERPHENYL	600ng/ml	0251	N/A	25mL	600ng/ml	N/A		3/7/11
OCTACOSANE	CAT: 110316-05 LOT: 164819-28057 OP: 3/7/11 EX: 3/7/12 AND LOT: 161639-27682 OP: 3/7/11 EX: 3/7/12							EX: 3/7/12

DIESEL STANDARD

DIESEL FUEL #2	50,000ng/ml	0251	1000ml	50mL	1000ng/ml	MC # 110510F		3/7/11 EX: 9/7/11
O-TERPHENYL	600ng/ml	0251	4170 ml		50ng/ml			
OCTACOSANE	CAT: 110316-05 LOT: 164819-28058 OP: 3/2/10 EX: 3/2/11							

o2si
Diesel Fuel #2 Composite
Lot #: 156524 - 27198
Rec: 9/10/10 MFR exp. 04/04/14

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
Cat. No: 011598-03 Exp: 4/4/2014
Lot No: 156524 Storage: </= -10 Degrees C
Solvent: Methylene
ption For Research Use Only
Opened: 3/7/11
EX: 3/7/12

MOTOR OIL STANDARD

MOTOR OIL	50,000ng/ml	0251	1000ml	50mL	1000ng/ml	MC # 110510F		3/7/11 EX: 9/7/11

o2si
Made in USA
Date Opened:

Motor Oil Composite, 50,000 mg/L, 1 ml
116390-02 Storage: </= -10 Degrees C
Lot No: 161898 Solvent: Methylene Chloride
Exp: 7/23/2013 OP: 3/7/11
Motor oil composite EX: 3/7/12
Lot #: 161898 - 27587
Rec: 10/18/10 MFR exp. 07/23/13

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE/ INITIALS	STAI
042								

DIESEL 2ND SOURCE STD.

DIESEL FUEL #2	50,000ug/ml	0251	1000ml	50ml	1000ug/ml	MC # 110510F	3/7/11 ex: 9/7/11

Diesel Fuel #2 Composite
op: 3/7/11 50,000 mg/L, 1 ml
ex: 3/7/12
611598-83
Lot # 167768 Storage S-10 Degrees C Expiry 2/15/15
Solvent: Methylene Chloride
Diesel Fuel #2 Composite
Lot #: 167768 - 28174
Rec: 1/20/11 MFR exp. 02/15/15
3/7/11

O-TERPHENYL OCTACOSANE	600ug/ml	0251	4170 ml		50ug/ml		

CAT: 110316-05
LOT: 164819-28058
OP: 3/2/11
EX: 3/2/12

HERB SPIKE

Analytes:	Conc. In mix (ug/ml)	Conc. In Stock (ug/ml)	Aliqoute (uL)	Final Vol. STOCK SRC (ml)	Final Vol. Solvent (mL)
Dalapon	6.4	320	1000		50
3,5 Dichlorobenzoic Acid	0.64	32		Source: Accustd	MTBE
4-Nitrophenol	1.6	80		Cat #: S-8254A-R1	Lot #
2,4-DCAA (S)	3.2	160		LOT#: B8080038-1A	50112
Dicamba	0.64	32		-26959	
MCPP	640	32000		OPEN: 1/28/11	
MCPA	640	32000		EXP: 7/16/11	
2,4-DP	3.2	160			
2,4-D	3.2	160			
DNOC	1.28	64			
PCP	0.64	32			
2,4,5-TP	0.64	32			
Chloramben	3.2	160			
2,4,5-T	0.64	32			
Dinoseb	1.6	80			
2,4-DB	6.4	320			
Bentazon	3.2	160			
Picloram	0.64	32			
Dacthal	0.64	32			
Acifluorfen	1.6	80			

3/7/11
ex: 6/7/11

AccuStandard
S-8254A-R1
Custom Herbicide Standard
Varied conc. in Hexane:Toluen
Lot: B8080038-1A op: 3/7/11
Exp: Jul,16,2011 ex: 7/16/11

Custom Herbicide Standard
Lot #: B8080038-1A - 27782
Rec: 11/23/10 MFR exp. 07/16/11
20 comps.
FLAMMABLE
3/7/11

HERB 200/1000 CCV LEVEL 4

SEE PB 026.	VARIOUS HERB STD.	200ml	1ml	200ug/ml	MTBE # 50112	3/7/11 ex: 8/9/11

PREP: 2/9/11
EX: 8/9/11

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

077

HERB SECOND SOURCE

Analytes:	Conc. In mix (ug/ml)	Conc. In Stock (ug/ml)	Aliquot (uL)	STOCK SOURCE O2SI	Final Vol. Solvent (ml)
Dalapon	12.8	64	1000		5
3,5 Dichlorobenzoic Acid	1.28	6.4		CAT: 132070-01	MTBE
4-Nitrophenol	3.2	16		LOT: 163603-27180	Lot #
2,4-DCAA (S)	6.4	32		OP: 4/21/11	50112
Dicamba	1.28	6.4		EXP: 4/21/12	
MCPP	1280	6400			
MCPA	1280	6400			
2,4-DP	6.4	32			
2,4-D	6.4	32			
DNOC	2.56	12.8			
PCP	1.28	6.4			
2,4,5-TP	1.28	6.4			
Chloramben	6.4	32			
2,4,5-T	1.28	6.4			
Dinoseb	3.2	16			
2,4-DB	12.8	64			
Bentazon	6.4	32			
Picloram	1.28	6.4			
Dacthal	1.28	6.4			
Acifluorfen	3.2	16			

Custom Herbicide Mix (Second Source), Underivatized Acids, EPA 132070-01-SS
Lot # 165787 Storage 5 Degrees C Expiry 11/09/13
Solv: Tol:Hex:MtBE
Custom Herbicide Mix (SS)
Lot #: 165787 - 27776
Rec: 11/23/10 MFR exp. 11/09/13
OP: 4/21/11 EX: 4/21/12

4/21/11 EX: 10/21/11

**1 ml ampule is derivitized by extraction and brought up to 5ml in MTBE

DIESEL CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
DIESEL	1000		03/07/11	09/07/11	10	100	400	600	800	1000
MC		010611B			990	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

4/22/11 EX: 9/7/11

MOTOR OIL CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		03/07/11	09/07/11	50	100	400	600	800	1000
MC		010611B			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 STD.	1000µg/ml	O2SI	400µL	1 mL	400 µg/mL	MC
Lot:148530	Prep:	03/07/11				010611B
-26265	Exp:	09/07/11				

PREP DATE:	04/22/11					
OP 2ND SOURCE						
EXP:	04/23/11					
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL
	OP 2ND SRC	5		04/13/11	04/23/11	500
VWR	HEXANE		010711A			500
					Final VOL.	1000

4/22/11 EX: 4/23/11

OP/FAM CURVE													
PREP:	04/22/11	EXP:	10/13/11			IB	IA	1	2	3	4	5	6
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	µL
	OP/F STD	5		04/13/11	10/13/11	DF2 OF 2	2	10	50	200	500	700	1000
VWR	Hexane		010711A			500	998	990	950	800	500	300	NA
					Final VOL.	1000	1000	1000	1000	1000	1000	1000	1000

4/22/11 EX: 10/13/11

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

TBX WATER SPIKE

TOXAPHENE	1000 µg/mL	O2SI CAT: 030279-06 LOT: 155996-260178 OP: 10/22/10 EX: 10/22/11	125 mL	25 mL	5 µg/mL	ACETONE # 120610C	4/26/11 EX: 7/26/11

4/26/11

KEROSENE/JP5 STD

STD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC	SOLVENT / LOT#	
JP5/ KEROSENE	50,000 µg/mL	O2SI CAT#010597-S50 LOT# 167989-28188 OP:4/18/11 EX: 4/18/12	200 µL	10mL	1000 µg/mL	MC LOT# 010611B	4/26/11 EX: 10/26/11

4/26/11

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	4/26/11 EX: 9/7/11
		03/07/11	09/07/11			010611B	

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
		03/07/11	09/07/11			010611B

KEROSENE/JP5 CCV 400 UG/ML

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#	
KEROSENE /JP5 STD	1000UG/ML	O2SI	400 µL	1ML	400 UG/ML	MC	4/26/11 EX: 10/26/11
		04/26/11	10/26/11		1mL	010611B	

4/26/11

DIESEL CCV 600ug/ml

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#	
DIESEL STD.	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC	4/26/11 EX: 9/7/11
		03/07/11	09/07/11			010611B	

MOTOR OIL CCV 600UG/ML

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
	1000UG/ML	O2SI	600µL	1mL	600 UG/ML	MC
MOTOR OIL STD		03/07/11	09/07/11			010611B

KEROSENE/JP5 CCV 400 UG/ML

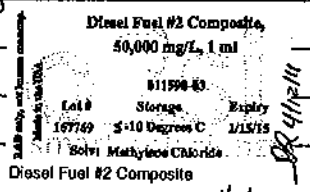
STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#	
KEROSENE /JP5 STD	1000UG/ML	O2SI	600 µL	1ML	600 UG/ML	MC	4/26/11 EX: 10/26/11
		04/26/11	10/26/11		1mL	010611B	

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

DIESEL SPIKE

4/12/11 ex: 10/12/11

DIESEL FUEL #2 | 50,000 mg/L | O2SI | 1000 mL | 25 mL | 2000 mg/L | MC | # 010611B | 4/12/11 ex: 7/12/11



4/12/11 ex: 10/12/11

DIESEL CURVE — LAC 4/13/11

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
DIESEL	1000		03/07/11	09/07/11	10	100	400	600	800	1000
MC		010611B			990	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

LAC 4/13/11 ex: 9/13/11

MOTOR OIL CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		03/07/11	09/07/11	50	100	400	600	800	1000
MC		010611B			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

4/12/11 ex: 7/12/11

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:149530	Prep:	03/07/11				010611B
-25266	Exp:	09/07/11				

* WAS NOT RECORDED ON 4/8/11

TECHNICAL 2ND SOURCE STD4C

TECHNICAL CHLORDANE | 1000 mg/L | O2SI | CAT: 154644-25930 dp: 4/8/11 ex: 4/8/12 | 100 mL | 10 mL | 10 mg/L | HEXANE # D107111A | 4/8/11 ex: 4/8/12

* WAS NOT RECORDED ON 4/8/11

TECHNICAL CHLORDANE 2ND SOURCE

STD4C | 10 mg/L | TECHCHLORD. STK | 0250 mL | prep: 4/8/11 ex: 4/8/12 | 10 mL 25 mL | 0.25 mg/L | HEXANE # D107111A | 4/8/11 ex: 10/8/11

DATE / INITIALS	STANDARD	INITIAL CONC	SOURCE	DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT / LOT #	DATE / INITIALS
	THC SURROGATE * GAVE TO EXTRACTION TL OF (BS)								
3/22/11 ex: 9/22/11	O-TERPHENYL DOCOSANE	600ng/µl	0251 CAT: 110316-05 LOT: (164819) 28492 & 28493 LOT: (170258) 28496 & 28498 LOT (170258) 28497 & 28499-501 ALL OPEN: 3/25/11 EX: 3/25/12	N/A	25mL	600ng/µl	N/A		3/25/11 ex: 3/25
	Herb 200/1000 CCV								
Various analytes see pg 54.	various see pg. 054	Herb Std. prep: 3/22/11 EX: 9/22/11		200mL	1mL	various	MTBE #50112		3/25/11 ex: 9/22/11
	DIESEL 400 & 600/1000 CCV								
9/24/11 9/24/11	DIESEL FUEL #2	1000ng/µl	DIESEL STD PREP: 3/7/11 EX: 9/7/11	400mL 600mL	1mL 1mL	400ng/µl 600ng/µl	MC #0106113		3/25/11 ex: 6/25/11 ~~9/7/11~~ 3/25/11
	MOTOR OIL 400 & 600/1000ng/µl CCV								
	MOTOR OIL	1000ng/µl	MOTOR OIL STD. prep: 3/7/11 EX: 9/7/11	400mL 600mL	1mL 1mL	400ng/µl 600ng/µl	MC #0106113		3/25/11 ex: 6/25/11
	EE SOIL I (LEVEL 3) CCV								
LAC 3/24/11 ex: 9/24/11	VARIOUS see BK 34 Pg. 93	1ng/µl	EE SOIL I STD. prep: 11/10/10 EX: 4/10/11	100mL	1mL	0.1ng/µl	HEXANE #0826103		3/25/11 ex: 4/10/11
3/24/11 ex: 6/15/11 3/24/11 ex: 8/14/11	**THC SURROGATE** * GAVE TO EXTRACTION								
µL 1000 N/A 1000	O-TERPHENYL DOCOSANE	600ng/µl	0251 CAT: 110316-05 LOT: 170258-28494 & 28495 OP: 3/25/11 EX: 3/25/12	N/A	25mL	600ng/µl	N/A		3/25/11 ex: 3/25/12

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	110426A	Extraction Method	SBP011	Units	mL

Spiked ID 1	Diesel Spike 4/12/11 EX 7/12/11		Surrogate ID 1	THC Surrogate 170258-28494	
Spiked ID 2	Motor Oil Spike 3/31/11 EX 6/30/11		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	04/28/11 0:00	

pH1			W Bath Temp	80 °C
pH2				
pH3				

Spiked By: DL **Date** 04/26/11 **Witnessed By:** CC **Date** 04/26/11

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	110426A Blk				0.250	1	1000	5	7	04/26/11 12:00	
2	110426A LCS-1		1	1	0.250	1	1000	5	7	04/26/11 12:00	
3	110426A LCS-2		1	2	0.250	1	1000	5	7	04/26/11 12:00	
4	AY36096	AY36096W07			0.250	1	1030	5	7	04/26/11 12:00	64463 7-DAY RUSH -- Amber Liter
5	AY36138	AY36138W07			0.250	1	1040	5	7	04/26/11 12:00	64459 -- Amber Liter
6	AY36235	AY36235W08			0.250	1	1020	5	7	04/26/11 12:00	64458 14-DAY RUSH -- Amber Liter
7	AY36311	AY36311W06			0.250	1	1020	5	7	04/26/11 12:00	64475 2-WEEK RUSH -- Amber Liter
8	AY36312 MS-1	AY36312W19	1	1	0.250	1	1040	5	7	04/26/11 12:00	64475 2-WEEK RUSH -- Amber Liter
9	AY36312 MSD-1	AY36312W21	1	1	0.250	1	1040	5	7	04/26/11 12:00	64475 2-WEEK RUSH -- Amber Liter
10	AY36312	AY36312W22			0.250	1	1010	5	7	04/26/11 12:00	64475 2-WEEK RUSH -- Amber Liter
11	AY36313	AY36313W07			0.250	1	1020	5	7	04/26/11 12:00	64475 2-WEEK RUSH -- Amber Liter
12	AY36316	AY36316W06			0.250	1	1020	5	7	04/26/11 12:00	64475 2-WEEK RUSH -- Amber Liter
13	AY36317	AY36317W05			0.250	1	1000	5	7	04/26/11 12:00	64475 2-WEEK RUSH -- Amber Liter

RJS 4/26/11

Solvent and Lot#	
MC	VWR 112910A
Na2SO4	0440C237

Extraction COC Transfer	
Extraction lab employee Initials	RJS
GC analyst's initials	
Date	4/27/11
Time	9:30
Refrigerator	HOBART

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

Modified	04/26/11 11:27:02 AM

Reviewed By: RJS 84 **Date** 04/26/11

Injection Log

Directory: G:\APOLLO\DATA\110422\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	422004.D	1	DIESEL 10/1000 4/22/11	Mix(A)	4-22-11 11:20:08
2	5	422005.D	1	DIESEL 100/1000	Mix(A)	4-22-11 11:45:11
3	6	422006.D	1	DIESEL 400/1000	Mix(A)	4-22-11 12:10:19
4	7	422007.D	1	DIESEL 600/1000	Mix(A)	4-22-11 12:35:32
5	8	422008.D	1	DIESEL 800/1000	Mix(A)	4-22-11 13:00:52
6	9	422009.D	1	DIESEL 1000/1000	Mix(A)	4-22-11 13:26:13
13	16	422016.D	1	DIESEL 2ND SRC 400/1000 4/22/11	Mix(A)	4-22-11 16:19:58
1	78	425078.D	1	DIESEL 400/1000 4/26/11	Mix(A)	4-27-11 9:05:43
2	79	425079.D	5	110426A BLK 5/1000	Water	4-27-11 9:30:28
3	80	425080.D	5	110426A LCS-1 5/1000	Water	4-27-11 9:54:57
4	82	425082.D	1	DIESEL 400/1000 4/26/11	Mix(A)	4-27-11 10:44:29
5	87	425087.D	4.90196	AY36311W06 5/1020	Water	4-27-11 12:49:36
6	88	425088.D	4.80769	AY36312W19 MS-1 5/1040	Water	4-27-11 13:13:59
7	89	425089.D	4.80769	AY36312W21 MSD-1 5/1040	Water	4-27-11 13:38:25
8	90	425090.D	4.9505	AY36312W22 5/1010	Water	4-27-11 14:02:57
9	91	425091.D	4.90196	AY36313W07 5/1020	Water	4-27-11 14:27:25
10	92	425092.D	4.90196	AY36316W06 5/1020	Water	4-27-11 14:52:28
11	93	425093.D	5	AY36317W05 5/1000	Water	4-27-11 15:17:24
12	94	425094.D	1	DIESEL 600/1000 4/26/11	Mix(A)	4-27-11 15:41:55

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: **110425W-36312 - 155155**
Batch ID: #SIMHC-110425A

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	04/25/11	05/11/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/11/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/11/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/11/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/11/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/11/11
BLANK	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/11/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/11/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/11/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/11/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/11/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/11/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/11/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/11/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/11/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/11/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/11/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/11/11
BLANK	SURROGATE: 2-FLUORBIPHENY	56.0	50-110			%	04/25/11	05/11/11
BLANK	SURROGATE: NITROBENZENE-	87.6	40-110			%	04/25/11	05/11/11
BLANK	SURROGATE: TERPHENYL-D14 (	58.6	50-135			%	04/25/11	05/11/11

Quant Method: SIM2.M
Run #: 0511L003
Instrument: Linus
Sequence: L110420
Initials: LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 7:24:48 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64475

Case No: 64475 Date Analyzed: 05/11/11

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-FLUORBIPHENYL (S)	SURROGATE: NITROBENZENE-D5 (S)
110425A-BLK	Blank	56.0	87.6
110425A-LCS	Lab Control Spike	54.0	94.5
AY36311	ES019	52.2	95.3
AY36312-MS	Matrix Spike	54.6	87.7
AY36312-MSD	Matrix SpikeD	54.6	73.9
AY36312	ES020	58.3	71.8
AY36313	ES021	54.1	86.0
AY36316	ES024	53.9	96.9
AY36317	ES025	50.5	88.2

Comments: Batch: #SIMHC-110425A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64475

Case No: 64475 Date Analyzed: 05/11/11

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: TERPHENYL-D14 (S)
110425A-BLK	Blank	58.6
110425A-LCS	Lab Control Spike	64.5
AY36311	ES019	62.7
AY36312-MS	Matrix Spike	52.0
AY36312-MSD	Matrix SpikeD	53.5
AY36312	ES020	59.4
AY36313	ES021	50.4
AY36316	ES024	58.0
AY36317	ES025	54.4

Comments: Batch: #SIMHC-110425A

Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: **110425W-36312 LCS - 155155**
Batch ID: #SIMHC-110425A

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	2.05	51.2	45-105
2-METHYLNAPHTHALENE	4.00	2.08	52.0	45-105
ACENAPHTHENE	4.00	2.20	55.0	45-110
ACENAPHTHYLENE	4.00	2.21	55.3	50-105
ANTHRACENE	4.00	2.78	69.5	55-110
BENZO(A)ANTHRACENE	4.00	2.27	56.8	55-110
BENZO(A)PYRENE	4.00	2.70	67.5	55-110
BENZO(B)FLUORANTHENE	4.00	2.31	57.8	45-120
BENZO(GHI)PERYLENE	4.00	2.53	63.2	40-125
BENZO(K)FLUORANTHENE	4.00	3.19	79.8	45-125
CHRYSENE	4.00	3.17	79.3	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.53	63.2	40-125
FLUORANTHENE	4.00	3.10	77.5	55-115
FLUORENE	4.00	2.50	62.5	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.87	71.8	45-125
NAPHTHALENE	4.00	2.07	51.7	40-100
PHENANTHRENE	4.00	2.85	71.3	50-115
PYRENE	4.00	2.67	66.8	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.08	54.0	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.89	94.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.29	64.5	50-135

Comments:

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	04/25/11
Analysis Date :	05/11/11
Instrument :	Linus
Run :	0511L004
Initials :	LF

Printed: 05/16/11 7:24:54 PM

Matrix Spike Recoveries

EPA 8270D SIM

APPL ID: **110425W-36312 MS - 155155**
Batch ID: #SIMHC-110425A
Sample ID: AY36312
Client ID: ES020

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	5.1	6.87	7.01	45.1	48.7	45-105	2.0	25
2-METHYLNAPHTHALENE	3.92	0.43	2.20	2.32	45.1	48.2	45-105	5.3	25
ACENAPHTHENE	3.92	0.18	2.36	2.34	55.6	55.1	45-110	0.85	25
ACENAPHTHYLENE	3.92	0.071	2.41	2.40	59.6	59.4	50-105	0.42	25
ANTHRACENE	3.92	ND	2.76	2.69	70.4	68.6	55-110	2.6	25
BENZO(A)ANTHRACENE	3.92	ND	2.32	2.32	59.2	59.2	55-110	0.0	25
BENZO(A)PYRENE	3.92	ND	2.43	2.43	62.0	62.0	55-110	0.0	25
BENZO(B)FLUORANTHENE	3.92	ND	2.18	2.14	55.6	54.6	45-120	1.9	25
BENZO(GHI)PERYLENE	3.92	ND	2.33	2.30	59.4	58.6	40-125	1.3	25
BENZO(K)FLUORANTHENE	3.92	ND	2.55	2.59	65.0	66.0	45-125	1.6	25
CHRYSENE	3.92	ND	2.60	2.57	66.3	65.5	55-110	1.2	25
DIBENZ(A,H)ANTHRACENE	3.92	ND	2.40	2.35	61.2	59.9	40-125	2.1	25
FLUORANTHENE	3.92	ND	2.86	2.81	72.9	71.6	55-115	1.8	25
FLUORENE	3.92	0.086	2.44	2.38	60.0	58.5	50-110	2.5	25
INDENO(1,2,3-CD)PYRENE	3.92	ND	3.06	3.06	78.0	78.0	45-125	0.0	25
NAPHTHALENE	3.92	3.5	5.42	6.01	49.0	64.0	40-100	10.3	25
PHENANTHRENE	3.92	ND	2.53	2.49	64.5	63.5	50-115	1.6	25
PYRENE	3.92	ND	2.46	2.47	62.7	63.0	50-130	0.41	25
SURROGATE: 2-FLUORBIPHENYL (S)	1.96	NA	1.07	1.07	54.6	54.6	50-110		
SURROGATE: NITROBENZENE-D5 (S)	1.96	NA	1.72	1.45	87.7	73.9	40-110		
SURROGATE: TERPHENYL-D14 (S)	1.96	NA	1.02	1.05	52.0	53.5	50-135		

Comments:

Primary	SPK	DUP
Quant Method :	SIM2.M	SIM2.M
Extraction Date :	04/25/11	04/25/11
Analysis Date :	05/12/11	05/12/11
Instrument :	Linus	Linus
Run :	0511L017	0511L018
Initials :	LF	

Printed: 05/16/11 7:24:57 PM
APPL MSD SCII

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 64475

Case No: 64475 Date Analyzed: 05/11/11

Matrix: WATER Instrument: Linus

Blank ID: 110425A-BLK Time Analyzed: 2003

APPL ID.	Client Sample No.	File ID.	Date Analyzed
110425A-BLK	Blank	0511L003	05/11/11 2003
110425A-LCS	Lab Control Spike	0511L004	05/11/11 2028
AY36311	ES019	0511L016	05/12/11 0135
110425A-MS	Matrix Spike	0511L017	05/12/11 0200
110425A-MSD	Matrix SpikeD	0511L018	05/12/11 0225
AY36312	ES020	0511L019	05/12/11 0251
AY36313	ES021	0511L020	05/12/11 0316
AY36316	ES024	0511L021	05/12/11 0341
AY36317	ES025	0511L022	05/12/11 0407

Comments: Batch: #SIMHC-110425A

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 64475
Matrix: Water
ID: SVTUNE 04-14-11

SDG No: 64475
Date Analyzed: 05/11/11
Instrument: Linus
Time Analyzed: 19:18

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	110425A BLK 1/1000	0511L003.D	05/11/11 20:03
2	Lab Control Spike	110425A LCS-1 1/1000	0511L004.D	05/11/11 20:28
3	ES019	AY36311W05 1/1030	0511L016.D	05/12/11 1:35
4	Matrix Spike	AY36312W25 MS-1 1/10	0511L017.D	05/12/11 2:00
5	Matrix Spike Dup	AY36312W27 MSD-1 1/1	0511L018.D	05/12/11 2:25
6	ES020	AY36312W26 1/1030	0511L019.D	05/12/11 2:51
7	ES021	AY36313W05 1/1020	0511L020.D	05/12/11 3:16
8	ES024	AY36316W05 1/1020	0511L021.D	05/12/11 3:41
9	ES025	AY36317W06 1/1020	0511L022.D	05/12/11 4:07
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	29.95 - 60% of mass 198	43.4
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.5
127	40 - 60% of mass 198	50.4
197	0 - 1% of mass 198	0.5
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	7.2
275	10 - 30% of mass 198	23.7
365	1 - 100% of mass 198	2.3
441	0.01 - 100% of mass 443	75.2
442	40 - 150% of mass 198	58.3
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.: 64475

Lab File ID (Standard): 0420L006.D Date Analyzed: 04/20/11

Instrument ID: Linus Time Analyzed: 23:01

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	2790	6.17	1524	8.18	2709	9.90
	UPPER LIMIT	5580	6.67	3048	8.68	5418	10.40
	LOWER LIMIT	1395	5.67	762	7.68	1355	9.40
	SAMPLE NO.						
01	110425A BLK 1/1000	3867	6.18	1787	8.18	3296	9.91
02	110425A LCS-1 1/1000	3468	6.18	1678	8.18	3045	9.91
03	AY36311W05 1/1030	4240	6.18	2223	8.18	4068	9.91
04	AY36312W25 MS-1 1/1	4491	6.18	2480	8.18	4431	9.91
05	AY36312W27 MSD-1 1/	4562	6.18	2430	8.18	4286	9.91
06	AY36312W26 1/1030	4220	6.18	2471	8.18	4299	9.91
07	AY36313W05 1/1020	4343	6.18	2420	8.18	4394	9.91
08	AY36316W05 1/1020	4445	6.18	2294	8.18	4182	9.91
09	AY36317W06 1/1020	4155	6.18	2186	8.18	3926	9.91
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.: 64475

Lab File ID (Standard): 0420L006.D Date Analyzed: 04/20/11

Instrument ID: Linus Time Analyzed: 23:01

GC Column: ID: Heated Purge: (Y/N)

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	3273	12.96	2558	14.57		
	UPPER LIMIT	6546	13.46	5116	15.07		
	LOWER LIMIT	1637	12.46	1279	14.07		
	SAMPLE NO.						
01	110425A BLK 1/1000	4205	12.97	3185	14.58		
02	110425A LCS-1 1/1000	4147	12.97	3103	14.57		
03	AY36311W05 1/1030	5457	12.97	4830	14.57		
04	AY36312W25 MS-1 1/1	6004	12.97	5023	14.58		
05	AY36312W27 MSD-1 1/	5740	12.97	4836	14.58		
06	AY36312W26 1/1030	5464	12.97	4789	14.57		
07	AY36313W05 1/1020	5589	12.97	4682	14.57		
08	AY36316W05 1/1020	5537	12.97	4459	14.58		
09	AY36317W06 1/1020	5581	12.97	4531	14.57		
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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES019

APPL ID: AY36311

Sample Collection Date: 04/19/11

QCG: #SIMHC-110425A-155155

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	04/25/11	05/12/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	52.2	50-110			%	04/25/11	05/12/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	95.3	40-110			%	04/25/11	05/12/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	62.7	50-135			%	04/25/11	05/12/11

Quant Method: SIM2.M
Run #: 0511L016
Instrument: Linus
Sequence: L110420
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 7:25:03 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0511L016.D Vial: 16
Acq On : 12 May 11 1:35 Operator: LF
Sample : AY36311W05 1/1030 Inst : Linus
Misc : Multiplr: 0.97

Quant Time: May 16 19:01 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed May 11 10:12:00 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	4240	2.50000 ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	2223	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	4068	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.97	240	5457	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.57	264	4830	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.38	82	663	1.85036 ppb	0.01
Spiked Amount 1.942			Recovery	= 95.275%	
7) Surrogate Recovery (FBP)	7.42	172	1827	1.01420 ppb	0.00
Spiked Amount 1.942			Recovery	= 52.221%	
17) Surrogate Recovery (TPH)	11.77	244	3010	1.21709 ppb	0.00
Spiked Amount 1.942			Recovery	= 62.676%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
0511L016.D SIM2.M Mon May 16 19:08:11 2011 Page 1

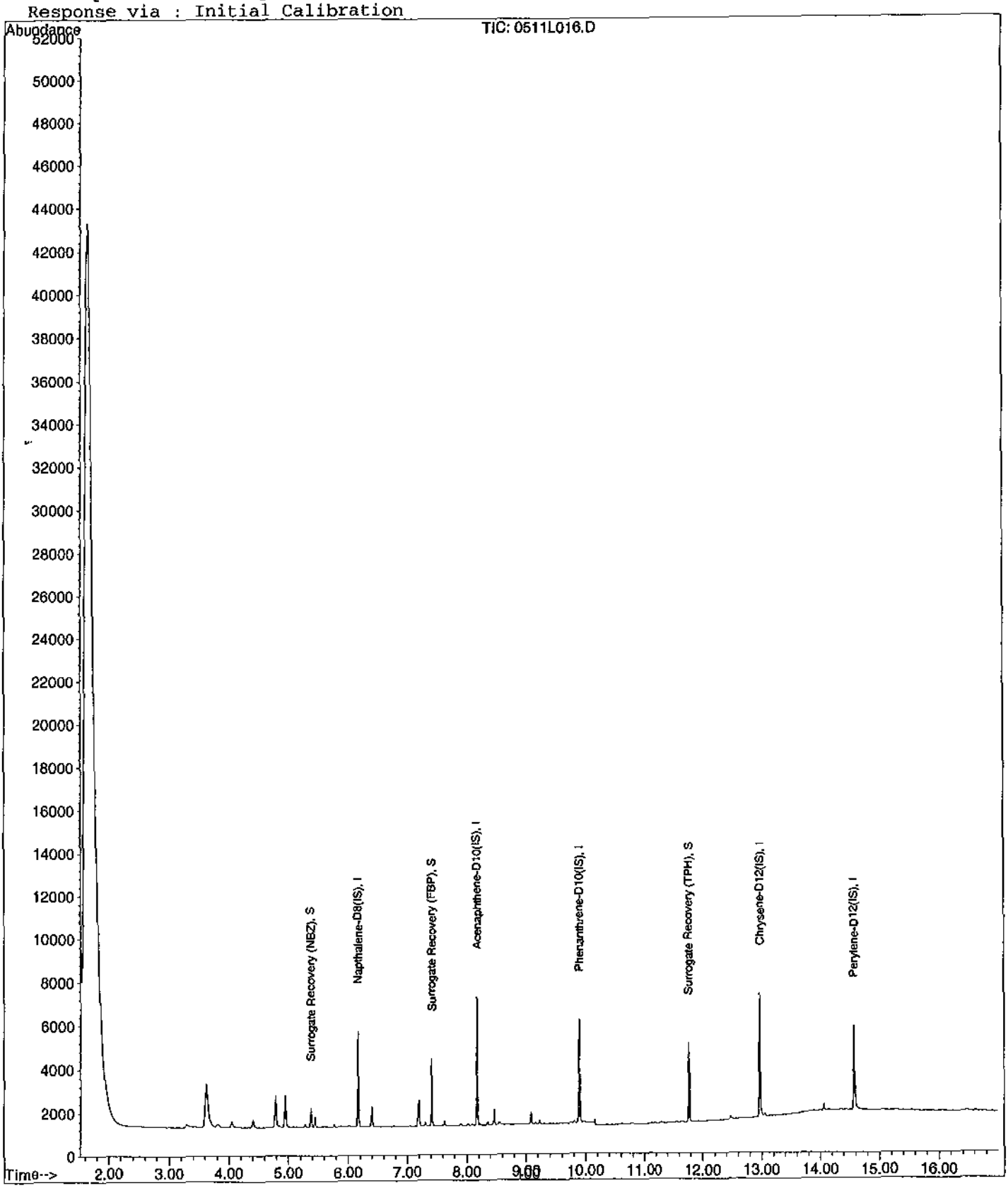
Quantitation Report

Data File : M:\LINUS\DATA\L110420\0511L016.D
Acq On : 12 May 11 1:35
Sample : AY36311W05 1/1030
Misc :

Vial: 16
Operator: LF
Inst : Linus
Multiplr: 0.97

Quant Time: May 16 19:01 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



EPA 8270D SIM

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES020

APPL ID: AY36312

Sample Collection Date: 04/19/11

QCG: #SIMHC-110425A-155155

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	5.1	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	2-METHYLNAPHTHALENE	0.43	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ACENAPHTHENE	0.18 J	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ACENAPHTHYLENE	0.071 J	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	FLUORENE	0.086 J	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	NAPHTHALENE	3.5	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	58.3	50-110			%	04/25/11	05/12/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	71.8	40-110			%	04/25/11	05/12/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	59.4	50-135			%	04/25/11	05/12/11

J = Estimated value.

Quant Method: SIM2.M
Run #: 0511L019
Instrument: Linus
Sequence: L110420
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 7:25:03 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0511L019.D Vial: 19
Acq On : 12 May 11 2:51 Operator: LF
Sample : AY36312W26 1/1030 Inst : Linus
Misc : Multiplr: 0.97

Quant Time: May 16 19:02 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed May 11 10:12:00 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

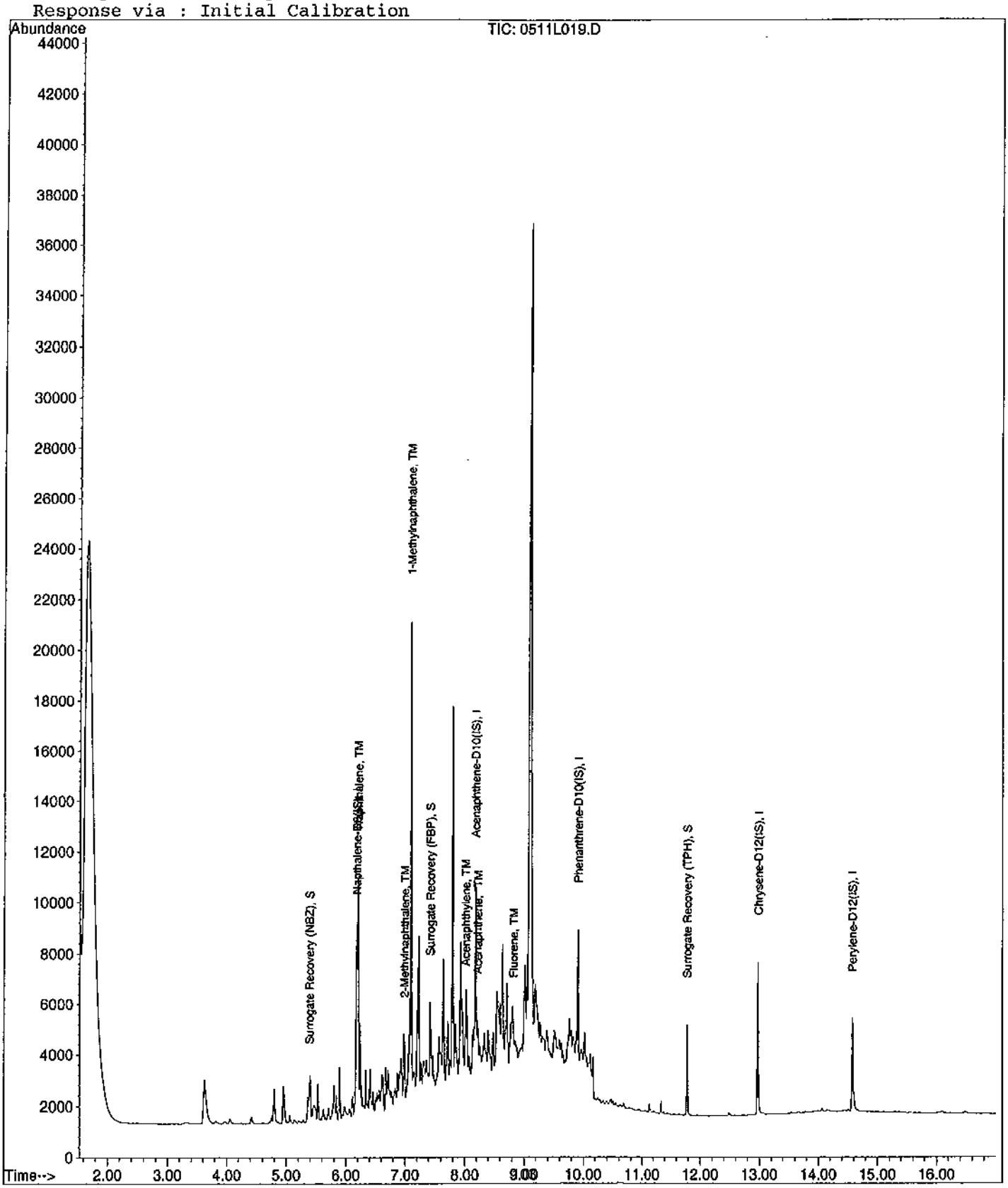
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	4220	2.50000 ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	2471	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	4299	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.97	240	5464	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.57	264	4789	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.38	82	421	1.39355 ppb	0.01
Spiked Amount 1.942			Recovery = 71.791%		
7) Surrogate Recovery (FBP)	7.42	172	2267	1.13215 ppb	0.00
Spiked Amount 1.942			Recovery = 58.298%		
17) Surrogate Recovery (TPH)	11.77	244	2855	1.15294 ppb	0.00
Spiked Amount 1.942			Recovery = 59.379%		
Target Compounds					Qvalue
3) Naphthalene	6.20	128	9387	3.52067 ppb #	95
4) 2-Methylnaphthalene	6.99	142	766	0.43180 ppb	98
5) 1-Methylnaphthalene	7.10	142	8662	5.11495 ppb	99
8) Acenaphthylene	8.01	152	196	0.07088 ppb #	1
9) Acenaphthene	8.22	154	279	0.17552 ppb	93
10) Fluorene	8.82	166	165	0.08629 ppb	97

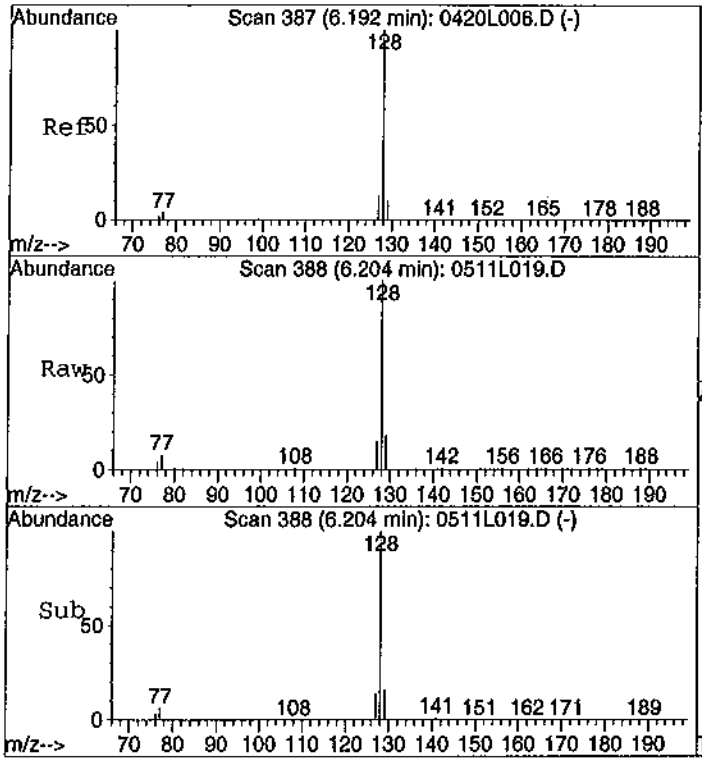
Quantitation Report

Data File : M:\LINUS\DATA\L110420\0511L019.D Vial: 19
Acq On : 12 May 11 2:51 Operator: LF
Sample : AY36312W26 1/1030 Inst : Linus
Misc : Multiplr: 0.97

Quant Time: May 16 19:02 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration

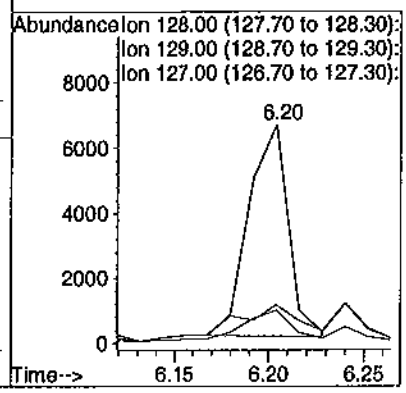


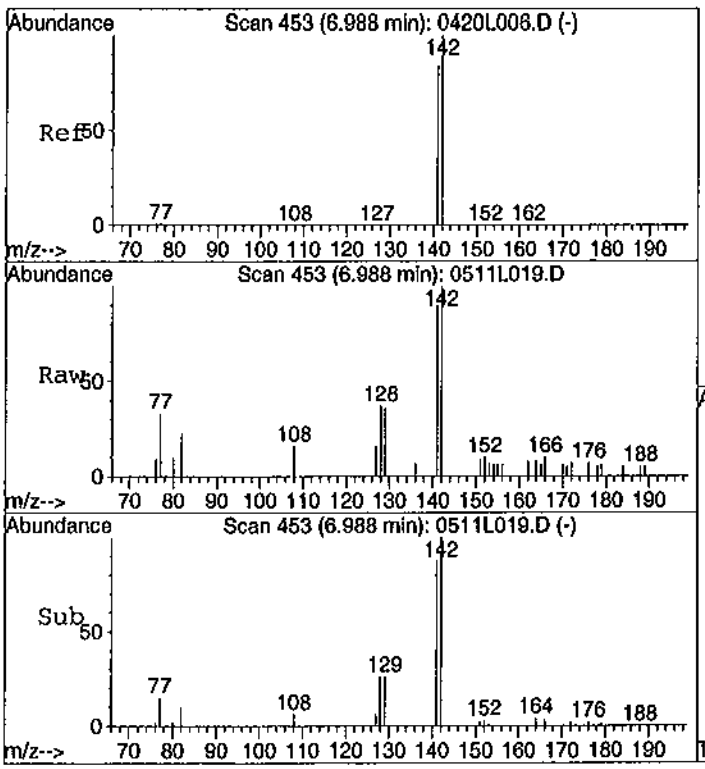


#3
Naphthalene
Concen: 3.52067 ppb
RT: 6.20 min Scan# 388
Delta R.T. 0.01 min
Lab File: 0511L019.D
Acq: 12 May 11 2:51

Tgt Ion:128 Resp: 9387

Ion	Ratio	Lower	Upper
128	100		
129	14.4	7.3	13.5#
127	13.7	9.4	17.4

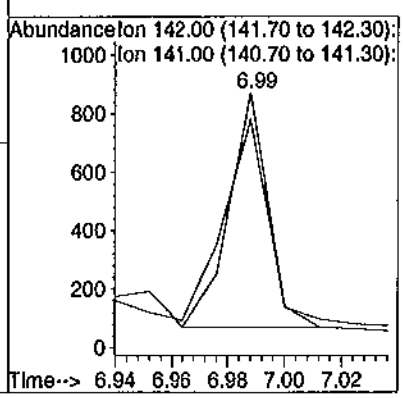


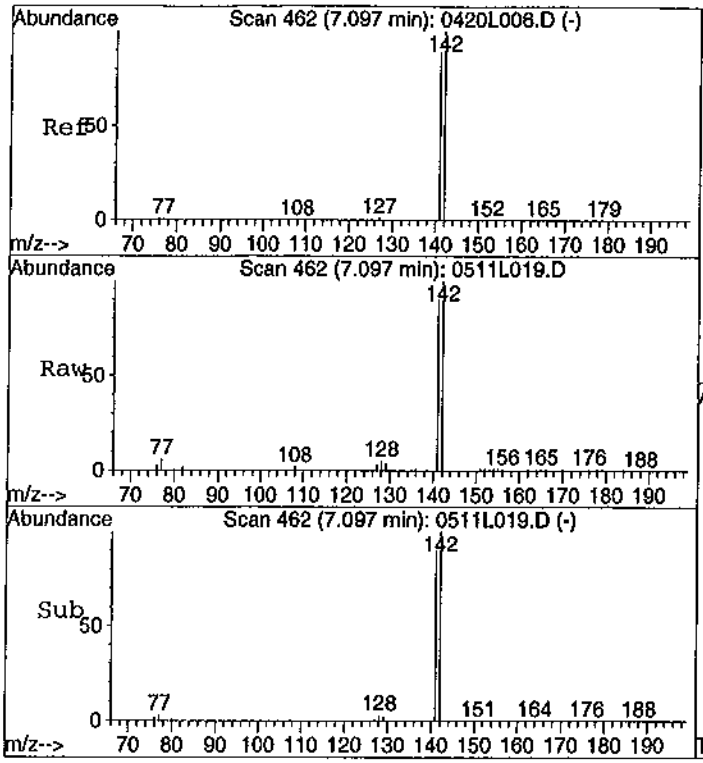


#4
2-Methylnaphthalene
Concen: 0.43180 ppb
RT: 6.99 min Scan# 453
Delta R.T. 0.00 min
Lab File: 0511L019.D
Acq: 12 May 11 2:51

Tgt Ion:142 Resp: 766

Ion	Ratio	Lower	Upper
142	100		
141	85.7	58.7	108.9

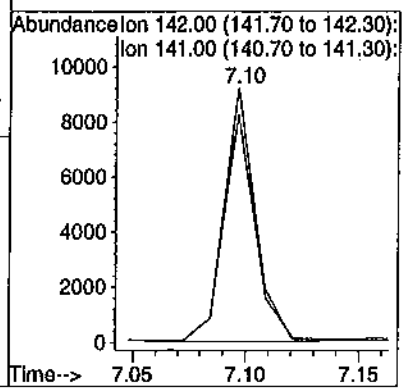


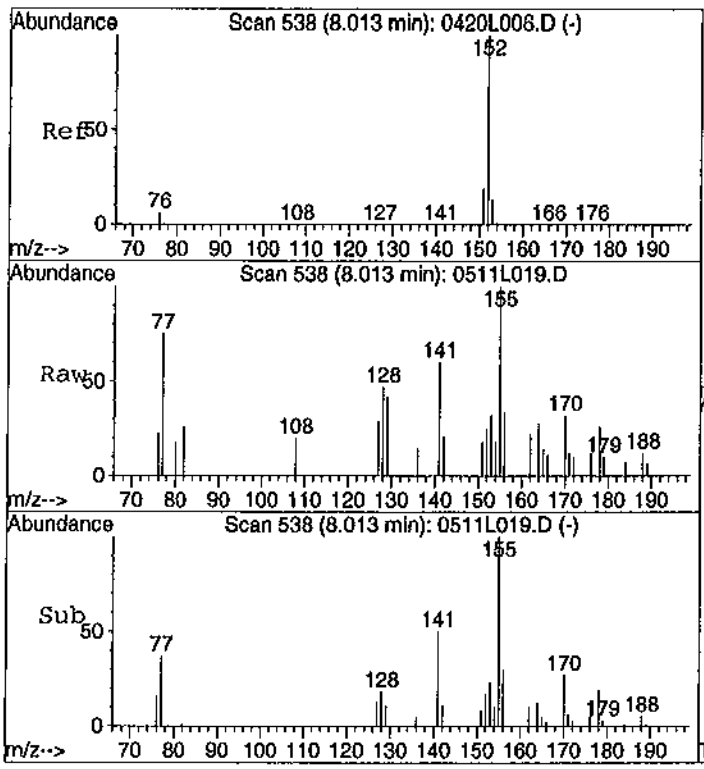


#5
1-Methylnaphthalene
Concen: 5.11495 ppb
RT: 7.10 min Scan# 462
Delta R.T. 0.00 min
Lab File: 0511L019.D
Acq: 12 May 11 2:51

Tgt Ion:142 Resp: 8662

Ion	Ratio	Lower	Upper
142	100		
141	89.6	62.4	115.8

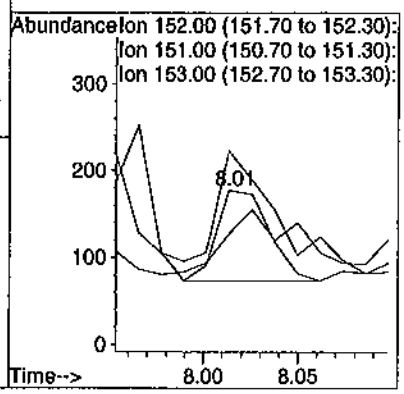


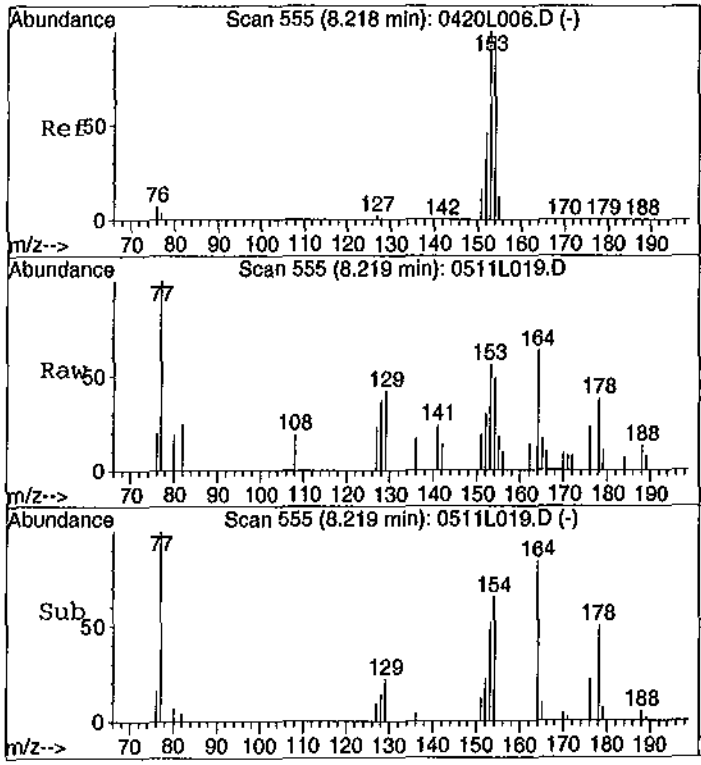


#8
Acenaphthylene
Concen: 0.07088 ppb
RT: 8.01 min Scan# 538
Delta R.T. 0.00 min
Lab File: 0511L019.D
Acq: 12 May 11 2:51

Tgt Ion:152 Resp: 196

Ion	Ratio	Lower	Upper
152	100		
151	41.7	13.4	25.0#
153	123.3	9.0	16.8#

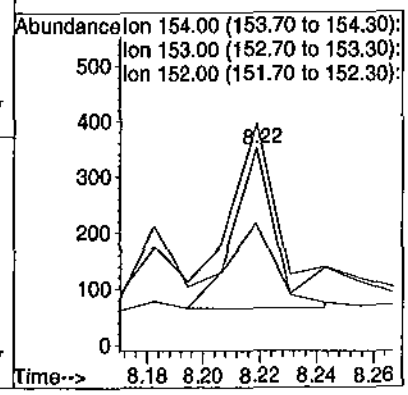


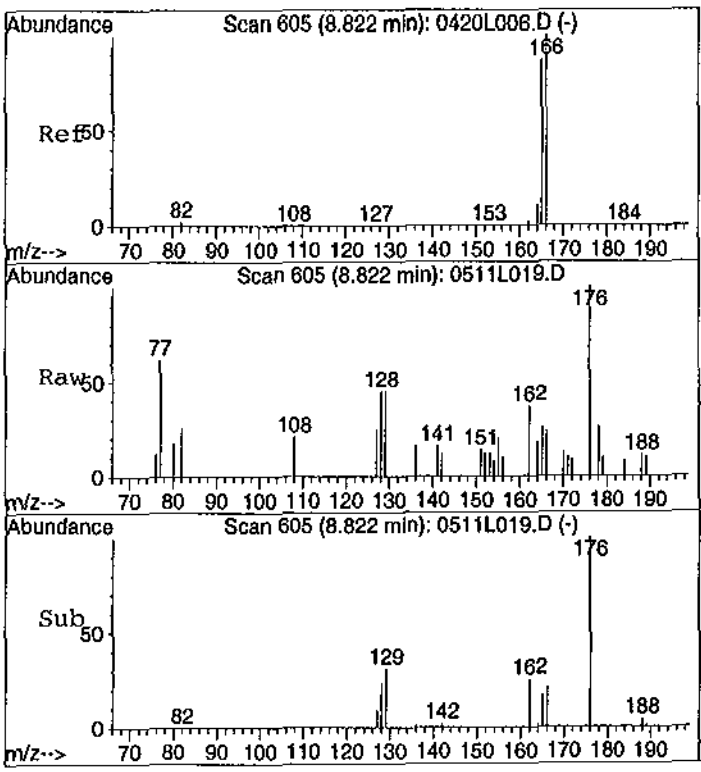


#9
Acenaphthene
Concen: 0.17552 ppb
RT: 8.22 min Scan# 555
Delta R.T. 0.00 min
Lab File: 0511L019.D
Acq: 12 May 11 2:51

Tgt Ion:154 Resp: 279

Ion	Ratio	Lower	Upper
154	100		
153	98.6	72.2	134.2
152	39.3	33.6	62.4

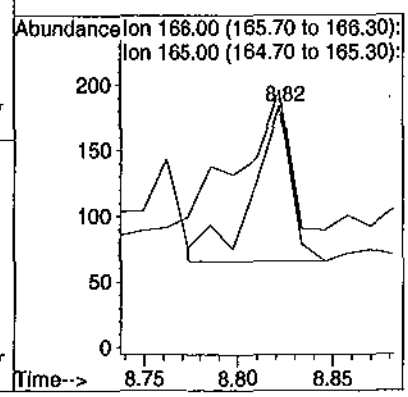




#10
Fluorene
Concen: 0.08629 ppb
RT: 8.82 min Scan# 605
Delta R.T. 0.00 min
Lab File: 0511L019.D
Acq: 12 May 11 2:51

Tgt Ion:166 Resp: 165

Ion	Ratio	Lower	Upper
166	100		
165	89.8	60.8	113.0



EPA 8270D SIM

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES021

APPL ID: AY36313

Sample Collection Date: 04/19/11

QCG: #SIMHC-110425A-155155

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	5.2	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	2-METHYLNAPHTHALENE	0.53	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ACENAPHTHENE	0.17 J	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ACENAPHTHYLENE	0.070 J	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	FLUORENE	0.085 J	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	NAPHTHALENE	4.2	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	54.1	50-110			%	04/25/11	05/12/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	86.0	40-110			%	04/25/11	05/12/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	50.4	50-135			%	04/25/11	05/12/11

J = Estimated value.

Quant Method: SIM2.M
Run #: 0511L020
Instrument: Linus
Sequence: L110420
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 7:25:03 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0511L020.D Vial: 20
Acq On : 12 May 11 3:16 Operator: LF
Sample : AY36313W05 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 19:05 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed May 11 10:12:00 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	4343	2.50000 ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	2420	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	4394	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.97	240	5589	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.57	264	4682	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.38	82	582	1.68629 ppb	0.01
Spiked Amount 1.961			Recovery	= 85.986%	
7) Surrogate Recovery (FBP)	7.42	172	2060	1.06076 ppb	0.00
Spiked Amount 1.961			Recovery	= 54.111%	
17) Surrogate Recovery (TPH)	11.77	244	2481	0.98910 ppb	0.00
Spiked Amount 1.961			Recovery	= 50.439%	
Target Compounds					Qvalue
3) Naphthalene	6.20	128	11392	4.19236 ppb #	94
4) 2-Methylnaphthalene	6.99	142	959	0.53044 ppb	96
5) 1-Methylnaphthalene	7.10	142	8940	5.17990 ppb	99
8) Acenaphthylene	8.01	152	187	0.06973 ppb #	1
9) Acenaphthene	8.22	154	258	0.16735 ppb	90
10) Fluorene	8.82	166	157	0.08466 ppb	94

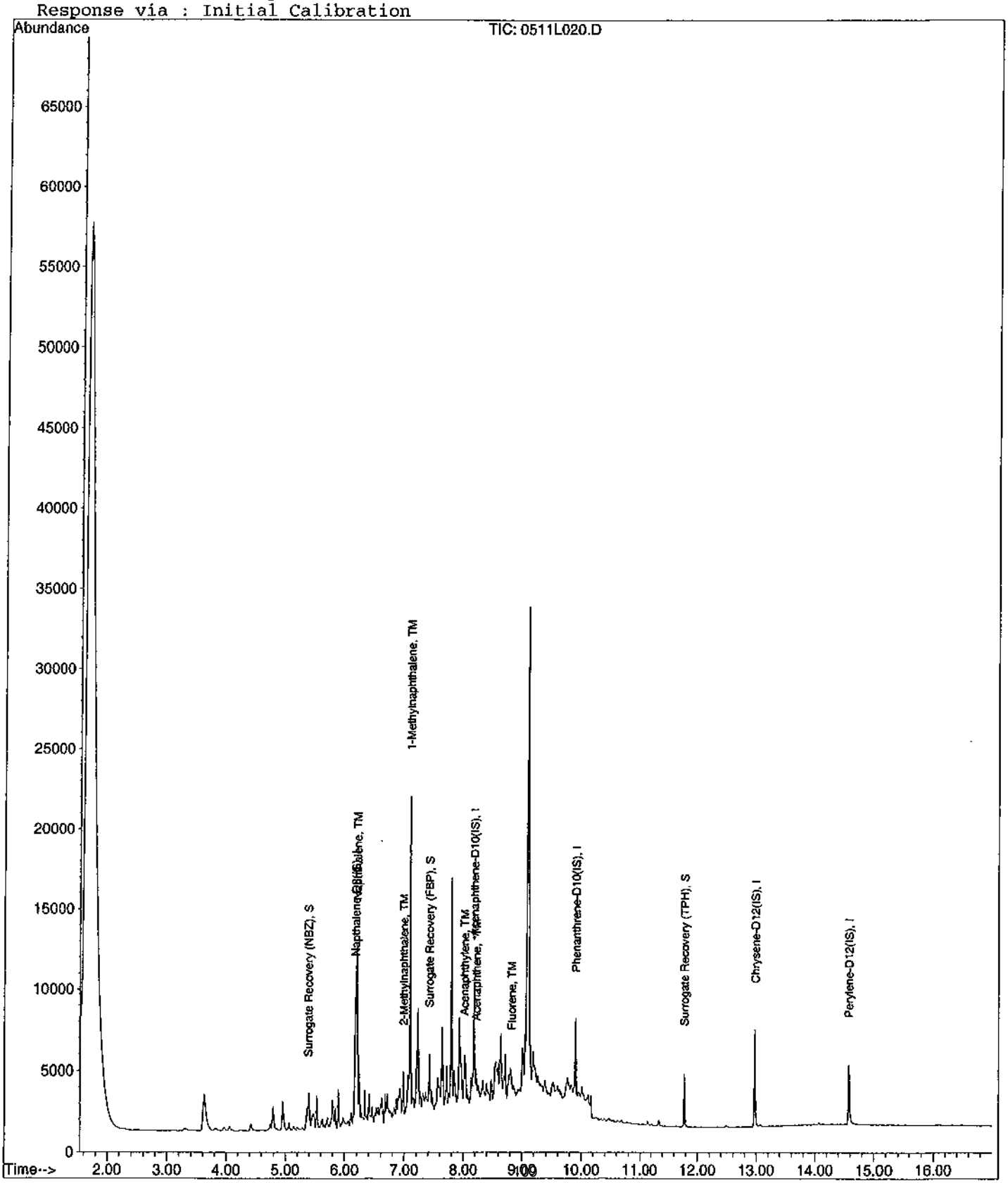
(#) = qualifier out of range (m) = manual integration
0511L020.D SIM2.M Mon May 16 19:08:46 2011 Page 1

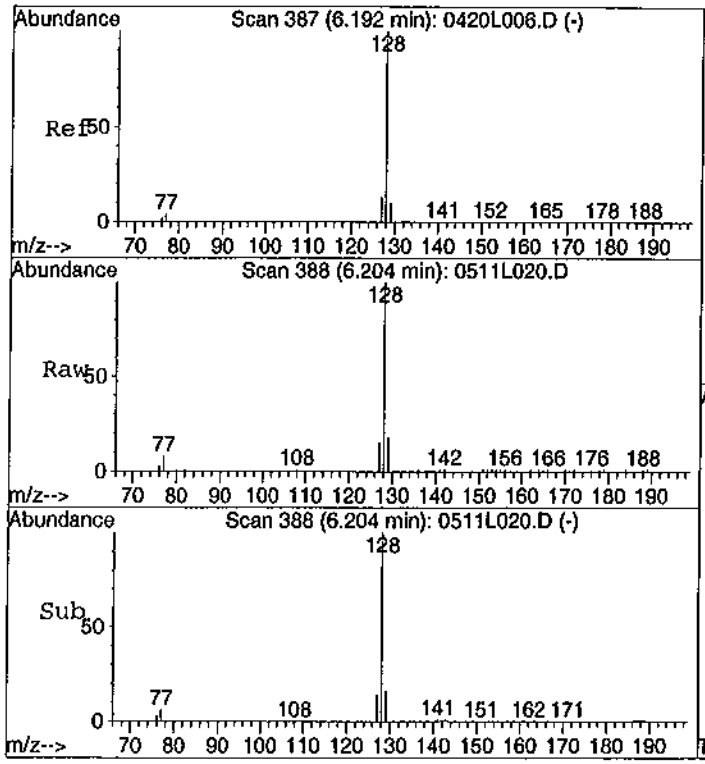
Quantitation Report

Data File : M:\LINUS\DATA\L110420\0511L020.D Vial: 20
Acq On : 12 May 11 3:16 Operator: LF
Sample : AY36313W05 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 19:05 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration

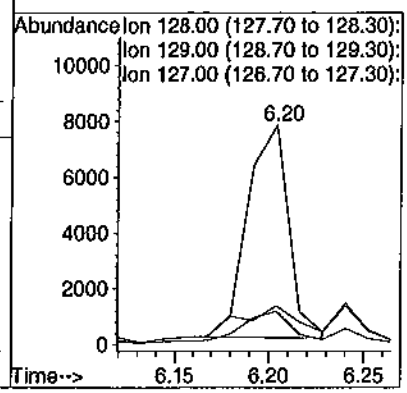


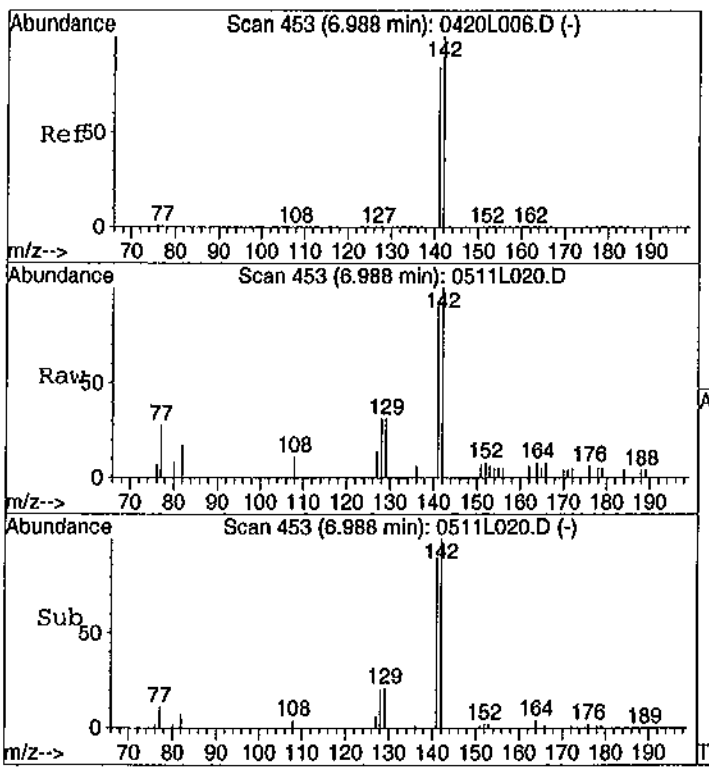


#3
Naphthalene
Concen: 4.19236 ppb
RT: 6.20 min Scan# 388
Delta R.T. 0.01 min
Lab File: 0511L020.D
Acq: 12 May 11 3:16

Tgt Ion:128 Resp: 11392

Ion	Ratio	Lower	Upper
128	100		
129	14.5	7.3	13.5#
127	13.9	9.4	17.4

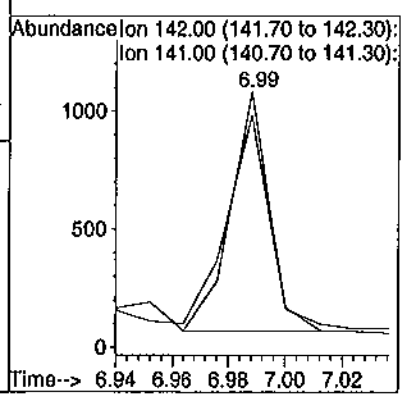


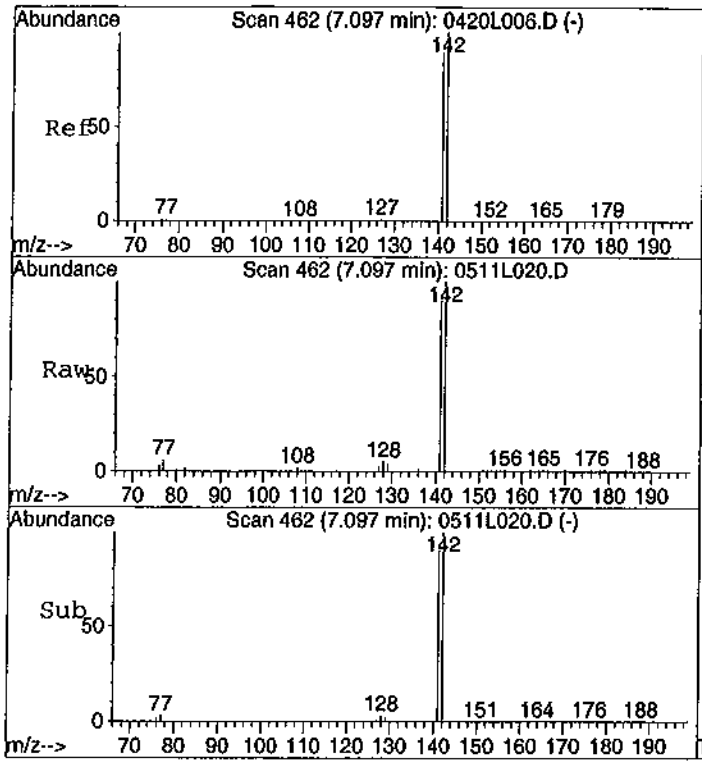


#4
2-Methylnaphthalene
Concen: 0.53044 ppb
RT: 6.99 min Scan# 453
Delta R.T. 0.00 min
Lab File: 0511L020.D
Acq: 12 May 11 3:16

Tgt Ion:142 Resp: 959

Ion	Ratio	Lower	Upper
142	100		
141	87.6	58.7	108.9

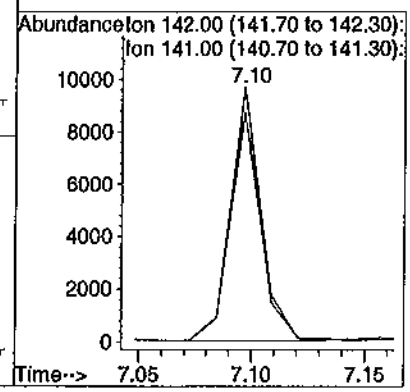


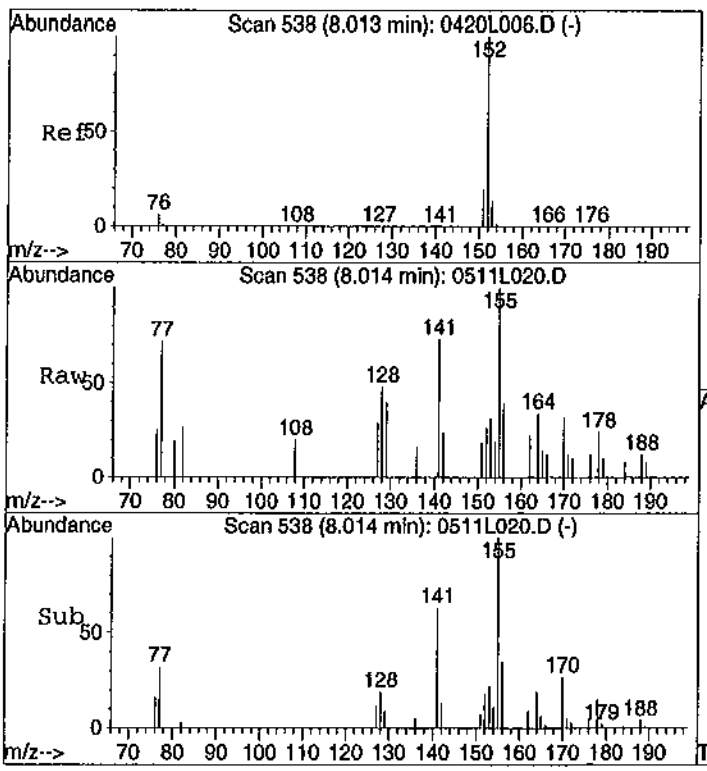


#5
1-Methylnaphthalene
Concen: 5.17990 ppb
RT: 7.10 min Scan# 462
Delta R.T. 0.00 min
Lab File: 0511L020.D
Acq: 12 May 11 3:16

Tgt Ion:142 Resp: 8940

Ion	Ratio	Lower	Upper
142	100		
141	90.0	62.4	115.8

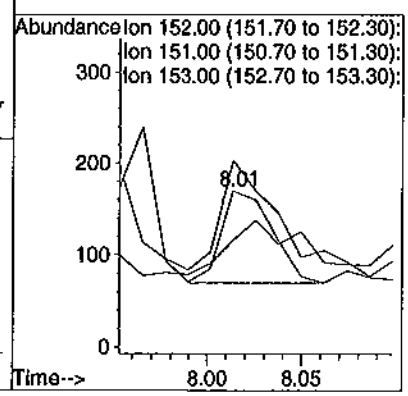


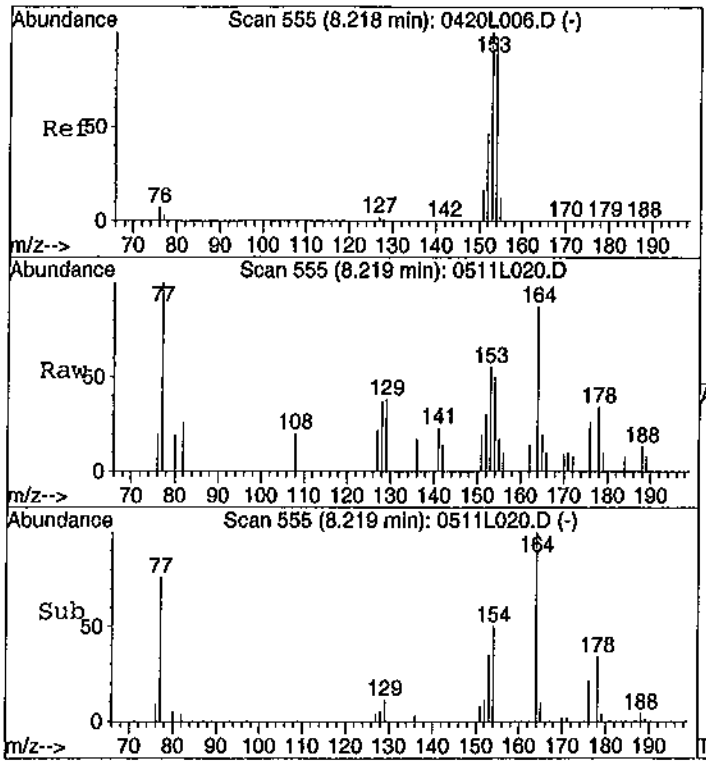


#8
Acenaphthylene
Concen: 0.06973 ppb
RT: 8.01 min Scan# 538
Delta R.T. 0.00 min
Lab File: 0511L020.D
Acq: 12 May 11 3:16

Tgt Ion:152 Resp: 187

Ion	Ratio	Lower	Upper
152	100		
151	37.0	13.4	25.0#
153	119.0	9.0	16.8#

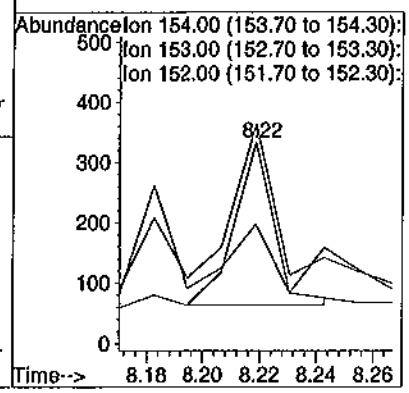


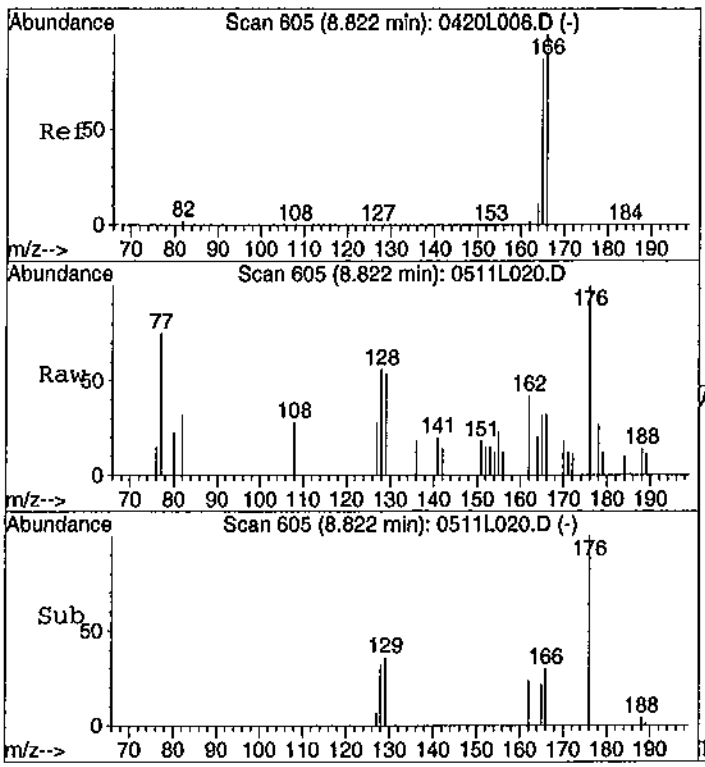


#9
Acenaphthene
Concen: 0.16735 ppb
RT: 8.22 min Scan# 555
Delta R.T. 0.00 min
Lab File: 0511L020.D
Acq: 12 May 11 3:16

Tgt Ion:154 Resp: 258

Ion	Ratio	Lower	Upper
154	100		
153	94.4	72.2	134.2
152	39.3	33.6	62.4

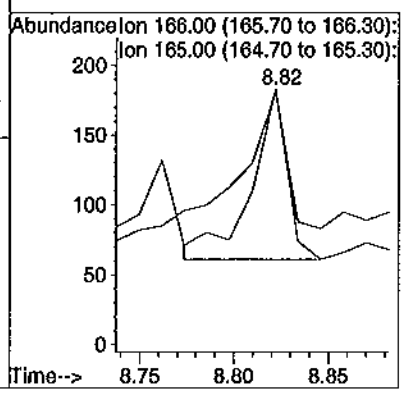




#10
Fluorene
Concen: 0.08466 ppb
RT: 8.82 min Scan# 605
Delta R.T. 0.00 min
Lab File: 0511L020.D
Acq: 12 May 11 3:16

Tgt Ion:166 Resp: 157

Ion	Ratio	Lower	Upper
166	100		
165	81.1	60.8	113.0



EPA 8270D SIM

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES024

APPL ID: AY36316

Sample Collection Date: 04/20/11

QCG: #SIMHC-110425A-155155

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	04/25/11	05/12/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	53.9	50-110			%	04/25/11	05/12/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	96.9	40-110			%	04/25/11	05/12/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	58.0	50-135			%	04/25/11	05/12/11

Quant Method: SIM2.M
Run #: 0511L021
Instrument: Linus
Sequence: L110420
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 7:25:03 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0511L021.D Vial: 21
Acq On : 12 May 11 3:41 Operator: LF
Sample : AY36316W05 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 19:06 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed May 11 10:12:00 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	4445	2.50000 ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	2294	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	4182	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.97	240	5537	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.58	264	4459	2.50000 ppb	0.01
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.38	82	712	1.89956 ppb	0.01
Spiked Amount 1.961			Recovery = 96.900%		
7) Surrogate Recovery (FBP)	7.42	172	1945	1.05655 ppb	0.00
Spiked Amount 1.961			Recovery = 53.907%		
17) Surrogate Recovery (TPH)	11.77	244	2825	1.13682 ppb	0.00
Spiked Amount 1.961			Recovery = 57.987%		

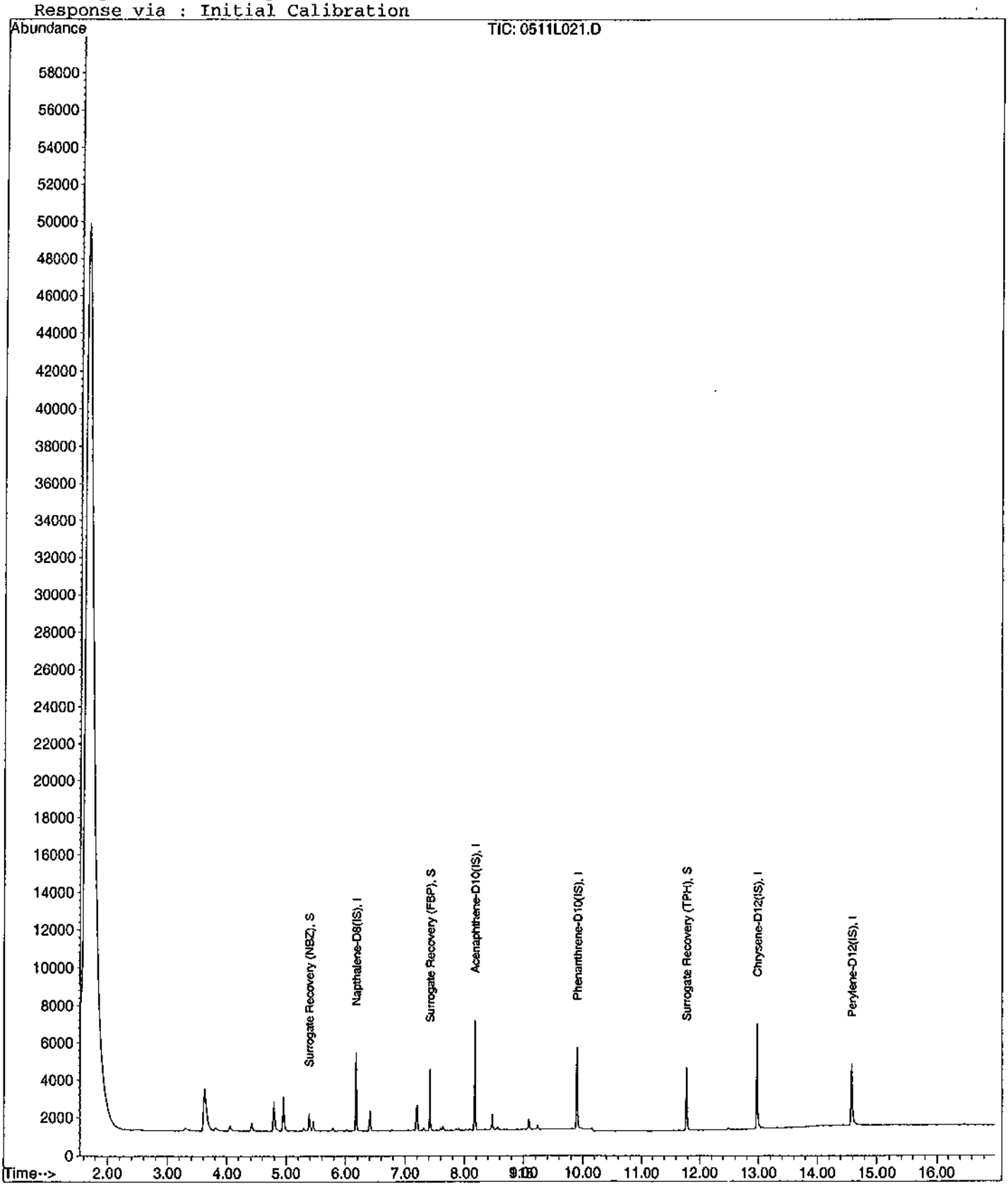
Target Compounds Qvalue

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0511L021.D Vial: 21
Acq On : 12 May 11 3:41 Operator: LF
Sample : AY36316W05 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 19:06 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



EPA 8270D SIM

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES025
Sample Collection Date: 04/20/11

ARF: 64475
APPL ID: AY36317
QCG: #SIMHC-110425A-155155

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	04/25/11	05/12/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/12/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/12/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/12/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/12/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	50.5	50-110			%	04/25/11	05/12/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	88.2	40-110			%	04/25/11	05/12/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	54.4	50-135			%	04/25/11	05/12/11

Quant Method: SIM2.M
Run #: 0511L022
Instrument: Linus
Sequence: L110420
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 7:25:03 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0511L022.D Vial: 22
Acq On : 12 May 11 4:07 Operator: LF
Sample : AY36317W06 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 19:06 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed May 11 10:12:00 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

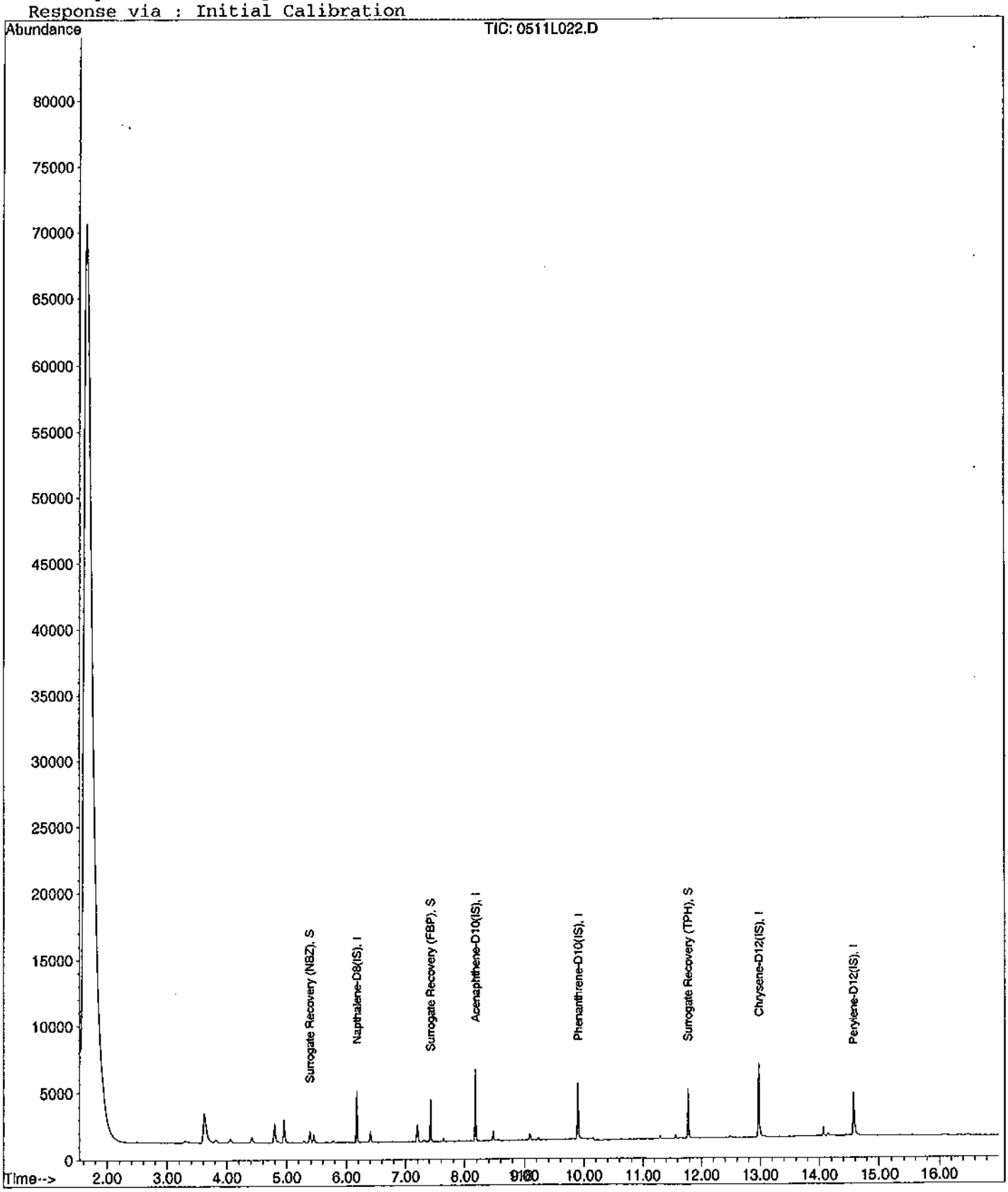
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	4155	2.50000 ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	2186	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	3926	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.97	240	5581	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.57	264	4531	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.38	82	579	1.72982 ppb	0.01
Spiked Amount 1.961			Recovery = 88.230%		
7) Surrogate Recovery (FBP)	7.42	172	1736	0.98961 ppb	0.00
Spiked Amount 1.961			Recovery = 50.490%		
17) Surrogate Recovery (TPH)	11.77	244	2672	1.06677 ppb	0.00
Spiked Amount 1.961			Recovery = 54.417%		
Target Compounds					Qvalue

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0511L022.D Vial: 22
Acq On : 12 May 11 4:07 Operator: LF
Sample : AY36317W06 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 19:06 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Calibration Data

APPL, INC.

EPA 8270C SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 64475
Case No: Initial Cal. Date: 04/20/11
Matrix: Instrument: Linus
Initials:

			0420L002.D	0420L003.D	0420L004.D	0420L005.D	0420L006.D	0420L007.D	0420L008.D	0420L009.D						
		Compound	0.1	0.2	0.5	1	5	10	50	100			Avg	%RSD		r
1	I	Napthalene-D8(IS)														
2	SL	Surrogate Recovery (NBZ)	0.5818	0.4855	0.3006	0.2756	0.2403	0.2702	0.2755	0.3045			0.34	36	SL	0.999
3	TM	Naphthalene	1.800	1.721	1.687	1.607	1.387	1.539	1.272	1.256			1.5	14	TM	
4	TM	2-Methylnaphthalene	1.164	1.099	1.129	1.071	0.9482	1.071	0.8653	0.8145			1.0	13	TM	
5	TM	1-Methylnaphthalene	1.073	1.134	1.064	1.036	0.9045	1.027	0.8041	0.7498			0.97	14	TM	
6	I	Acenaphthene-D10(IS)														
7	S	Surrogate Recovery (FBP)	2.282	2.262	2.174	2.136	1.801	1.988	1.556	1.536			2.0	15	S	
8	TM	Acenaphthylene	3.008	2.938	2.986	2.846	2.523	2.924	2.245	2.257			2.7	12	TM	
9	*TM	Acenaphthene	1.694	1.646	1.766	1.647	1.484	1.681	1.298	1.275			1.6	12	*TM	
10	TM	Fluorene	2.109	2.031	2.053	1.957	1.726	2.015	1.600	1.535			1.9	12	TM	
11	I	Phenanthrene-D10(IS)														
12	TM	Phenanthrene	1.636	1.719	1.608	1.521	1.487	1.527	1.253	1.153			1.5	13	TM	
13	TM	Anthracene	1.393	1.635	1.287	1.231	1.272	1.295	1.087	0.9912			1.3	15	TM	
14	*TM	Fluoranthene	2.241	2.308	2.178	2.150	2.091	2.191	1.807	1.698			2.1	10	*TM	
15	I	Chrysene-D12(IS)														
16	TM	Pyrene	1.991	2.040	2.030	1.904	1.789	1.864	1.511	1.401			1.8	13	TM	
17	S	Surrogate Recovery (TPH)		1.271	1.244	1.190	1.102	1.127	0.9327	0.8335			1.1	15	S	
18	TM	Benz (a) anthracene	1.812	1.740	1.725	1.679	1.569	1.600	1.361	1.249			1.6	12	TM	
19	TM	Chrysene	1.596	1.511	1.537	1.502	1.442	1.486	1.236	1.120			1.4	11	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.149	1.079	1.381	1.040	1.001	1.176	1.091	1.038			1.1	11	TM	
21	I	Perylene-D12(IS)														
22	TM	Benzo (b) fluoranthene	1.916	1.860	1.957	1.823	1.719	2.278	1.621	1.704			1.9	11	TM	
23	TM	Benzo (k) fluoranthene	1.731	1.878	1.899	1.778	1.854	1.571	1.469	1.156			1.7	15	TM	
24	*TM	Benzo (a) pyrene	1.740	1.649	1.601	1.622	1.622	1.740	1.436	1.359			1.6	8.5	*TM	
25	TM	Dibenz (a,h) anthracene	1.379	1.377	1.380	1.339	1.320	1.531	1.358	1.326			1.4	4.9	TM	
26	TM	Benzo (g,h,i) perylene	1.657	1.394	1.523	1.479	1.451	1.576	1.357	1.332			1.5	7.6	TM	
27																
28																
29																
30																
31																
32																
33																
34																
35																

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L002.D Vial: 2
Acq On : 20 Apr 11 21:19 Operator: LF
Sample : 0.1ug/ml PAH 04-20-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:56 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

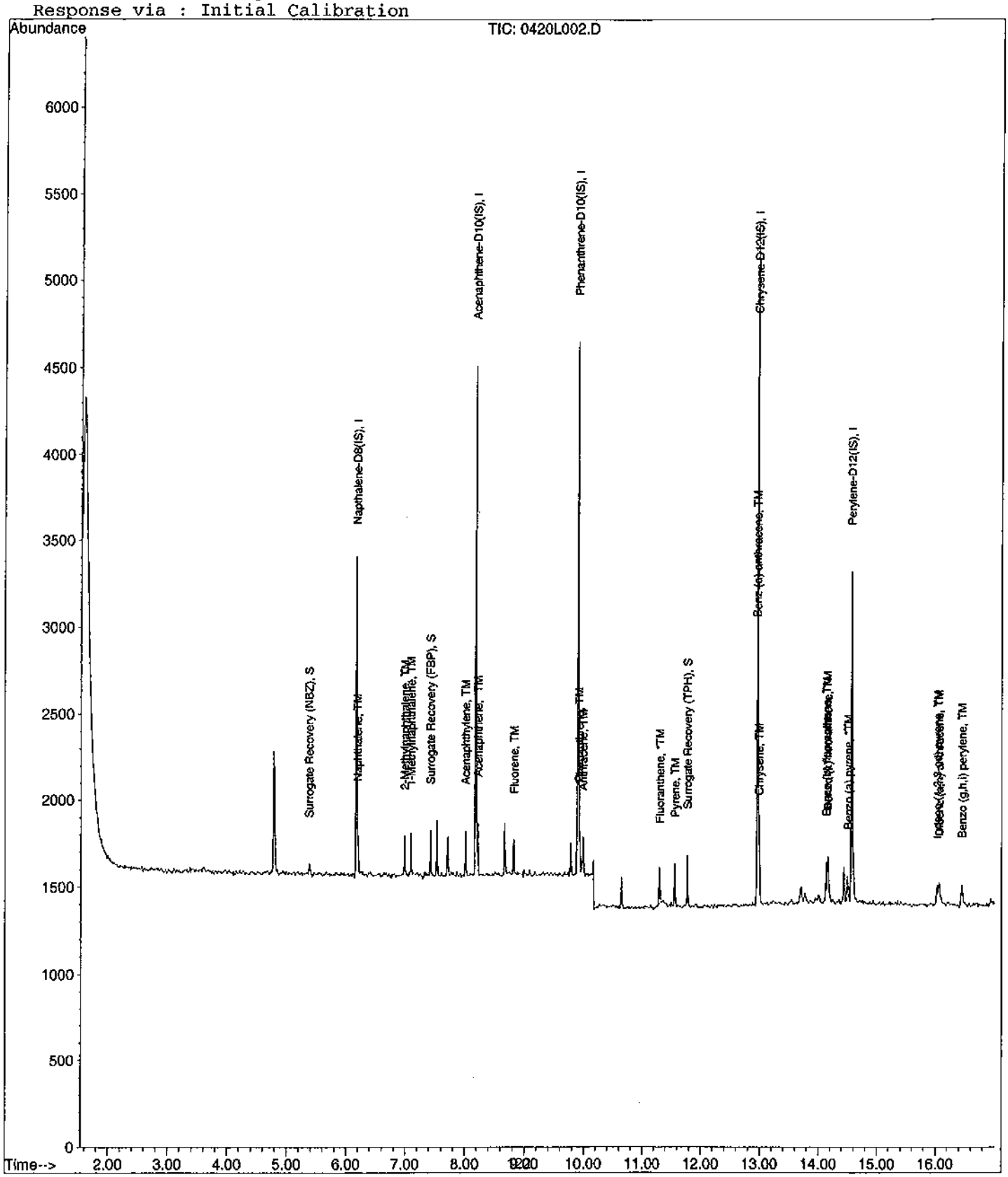
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2750	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1446	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	2979	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3352	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	2701	2.50000 ppb		-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.37	82	64	0.93191 ppb		0.00
Spiked Amount 2.000			Recovery = 46.600%			
7) Surrogate Recovery (FBP)	7.42	172	132	0.12001 ppb		0.00
Spiked Amount 2.000			Recovery = 6.000%			
17) Surrogate Recovery (TPH)	11.77	244	182	0.15071 ppb		0.00
Spiked Amount 2.000			Recovery = 7.550%			
Target Compounds						Qvalue
3) Naphthalene	6.19	128	198	0.12596 ppb		96
4) 2-Methylnaphthalene	6.99	142	128	0.14277 ppb		93
5) 1-Methylnaphthalene	7.10	142	118	0.11218 ppb		91
8) Acenaphthylene	8.01	152	174	0.12695 ppb		97
9) Acenaphthene	8.22	154	98	0.11945 ppb		96
10) Fluorene	8.82	166	122	0.12565 ppb		95
12) Phenanthrene	9.92	178	195	0.13124 ppb	#	89
13) Anthracene	9.98	178	166	0.12544 ppb		97
14) Fluoranthene	11.30	202	267	0.11122 ppb	#	96
16) Pyrene	11.56	202	267	0.14691 ppb	#	94
18) Benz (a) anthracene	12.95	228	243	0.15700 ppb		95
19) Chrysene	12.98	228	214	0.12472 ppb	#	91
20) Indeno (1,2,3-cd) pyrene	16.03	276	154	0.11147 ppb	#	98
22) Benzo (b) fluoranthene	14.13	252	207	0.15054 ppb		97
23) Benzo (k) fluoranthene	14.15	252	187	0.10870 ppb	#	87
24) Benzo (a) pyrene	14.50	252	188	0.13570 ppb		98
25) Dibenz (a,h) anthracene	16.06	278	149	0.12831 ppb	#	93
26) Benzo (g,h,i) perylene	16.45	276	179	0.14546 ppb		95

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L002.D Vial: 2
Acq On : 20 Apr 11 21:19 Operator: LF
Sample : 0.1ug/ml PAH 04-20-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:56 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L003.D Vial: 3
Acq On : 20 Apr 11 21:44 Operator: LF
Sample : 0.2ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:59 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

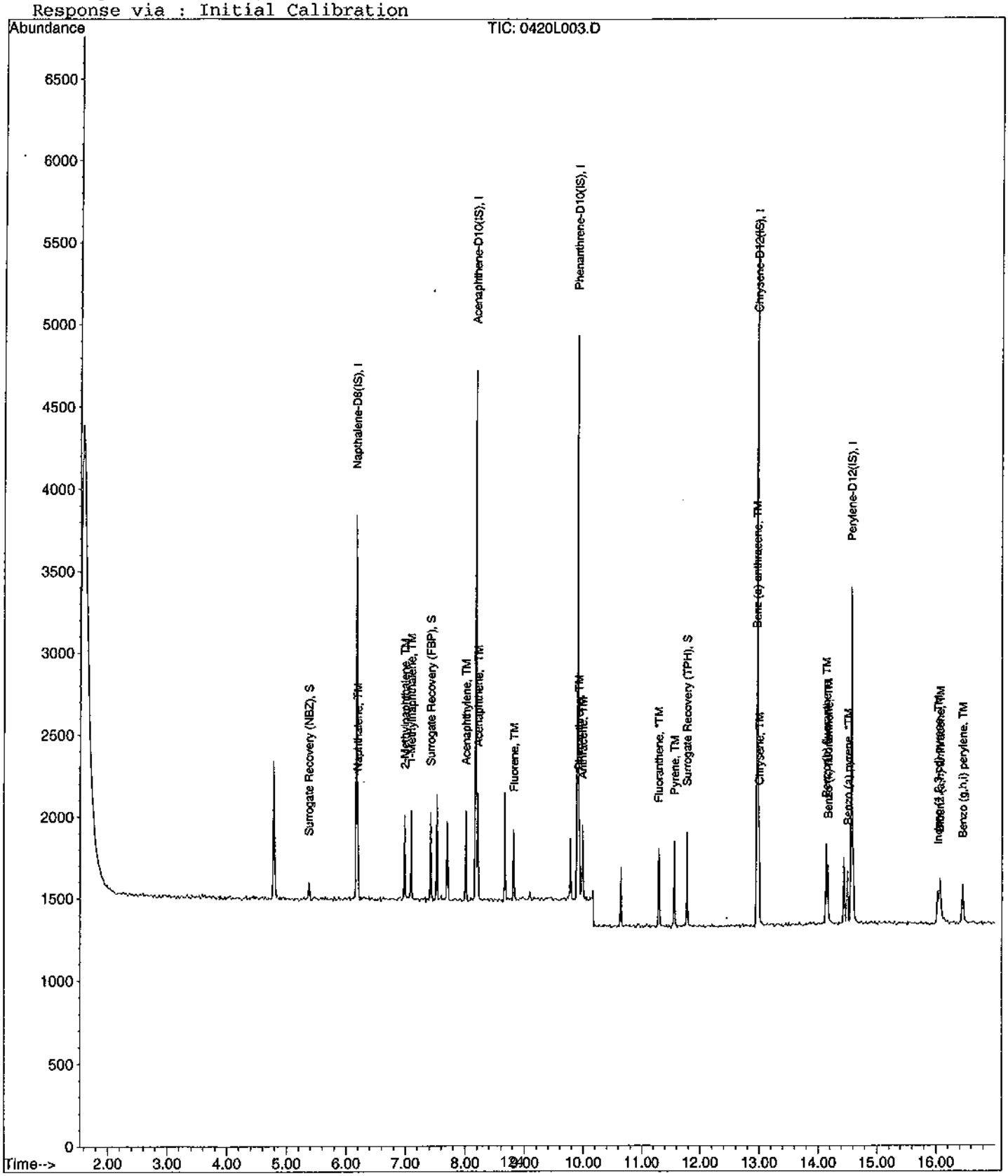
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2832	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.18	164	1625	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	2989	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3591	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	2896	2.50000 ppb		-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.37	82	110	1.01911 ppb		0.00
Spiked Amount 2.000			Recovery = 50.950%			
7) Surrogate Recovery (FBP)	7.42	172	294	0.23785 ppb		0.00
Spiked Amount 2.000			Recovery = 11.900%			
17) Surrogate Recovery (TPH)	11.77	244	365	0.28213 ppb		0.00
Spiked Amount 2.000			Recovery = 14.100%			
Target Compounds						Qvalue
3) Naphthalene	6.19	128	390	0.24092 ppb		98
4) 2-Methylnaphthalene	6.99	142	249	0.26970 ppb		96
5) 1-Methylnaphthalene	7.10	142	257	0.23725 ppb		98
8) Acenaphthylene	8.01	152	382	0.24800 ppb		99
9) Acenaphthene	8.22	154	214	0.23211 ppb		93
10) Fluorene	8.82	166	264	0.24195 ppb		95
12) Phenanthrene	9.92	178	411	0.27569 ppb		98
13) Anthracene	9.98	178	391	0.29447 ppb		99
14) Fluoranthene	11.29	202	552	0.22918 ppb	#	73
16) Pyrene	11.56	202	586	0.30098 ppb		97
18) Benz (a) anthracene	12.95	228	500	0.30155 ppb		98
19) Chrysene	13.00	228	434	0.23610 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.03	276	310	0.20945 ppb	#	100
22) Benzo (b) fluoranthene	14.13	252	431	0.29234 ppb	#	97
23) Benzo (k) fluoranthene	14.16	252	435	0.23583 ppb		98
24) Benzo (a) pyrene	14.50	252	382	0.25717 ppb		97
25) Dibenz (a,h) anthracene	16.06	278	319	0.25621 ppb	#	95
26) Benzo (g,h,i) perylene	16.45	276	323	0.24480 ppb	#	89

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L003.D Vial: 3
Acq On : 20 Apr 11 21:44 Operator: LF
Sample : 0.2ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:59 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L004.D Vial: 4
Acq On : 20 Apr 11 22:10 Operator: LF
Sample : 0.5ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.17	136	3011	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.18	164	1656	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	3295	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3783	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	3007	2.50000 ppb		-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.37	82	181	1.13824 ppb		0.00
Spiked Amount 2.000			Recovery = 56.900%			
7) Surrogate Recovery (FBP)	7.42	172	720	0.57158 ppb		0.00
Spiked Amount 2.000			Recovery = 28.600%			
17) Surrogate Recovery (TPH)	11.77	244	941	0.69045 ppb		0.00
Spiked Amount 2.000			Recovery = 34.500%			
Target Compounds						Qvalue
3) Naphthalene	6.19	128	1016	0.59031 ppb		99
4) 2-Methylnaphthalene	6.99	142	680	0.69274 ppb		99
5) 1-Methylnaphthalene	7.10	142	641	0.55655 ppb		100
8) Acenaphthylene	8.01	152	989	0.63005 ppb		100
9) Acenaphthene	8.22	154	585	0.62263 ppb		99
10) Fluorene	8.82	166	680	0.61155 ppb		99
12) Phenanthrene	9.93	178	1060	0.64499 ppb		99
13) Anthracene	9.98	178	848	0.57933 ppb		99
14) Fluoranthene	11.30	202	1435	0.54045 ppb		98
16) Pyrene	11.56	202	1536	0.74888 ppb		99
18) Benz (a) anthracene	12.95	228	1305	0.74709 ppb		97
19) Chrysene	12.98	228	1163	0.60057 ppb	#	90
20) Indeno (1,2,3-cd) pyrene	16.02	276	1045	0.67023 ppb	#	87
22) Benzo (b) fluoranthene	14.13	252	1177	0.76887 ppb	#	96
23) Benzo (k) fluoranthene	14.15	252	1142	0.59627 ppb	#	94
24) Benzo (a) pyrene	14.50	252	963	0.62439 ppb		98
25) Dibenz (a,h) anthracene	16.06	278	830	0.64202 ppb	#	96
26) Benzo (g,h,i) perylene	16.45	276	916	0.66862 ppb		95

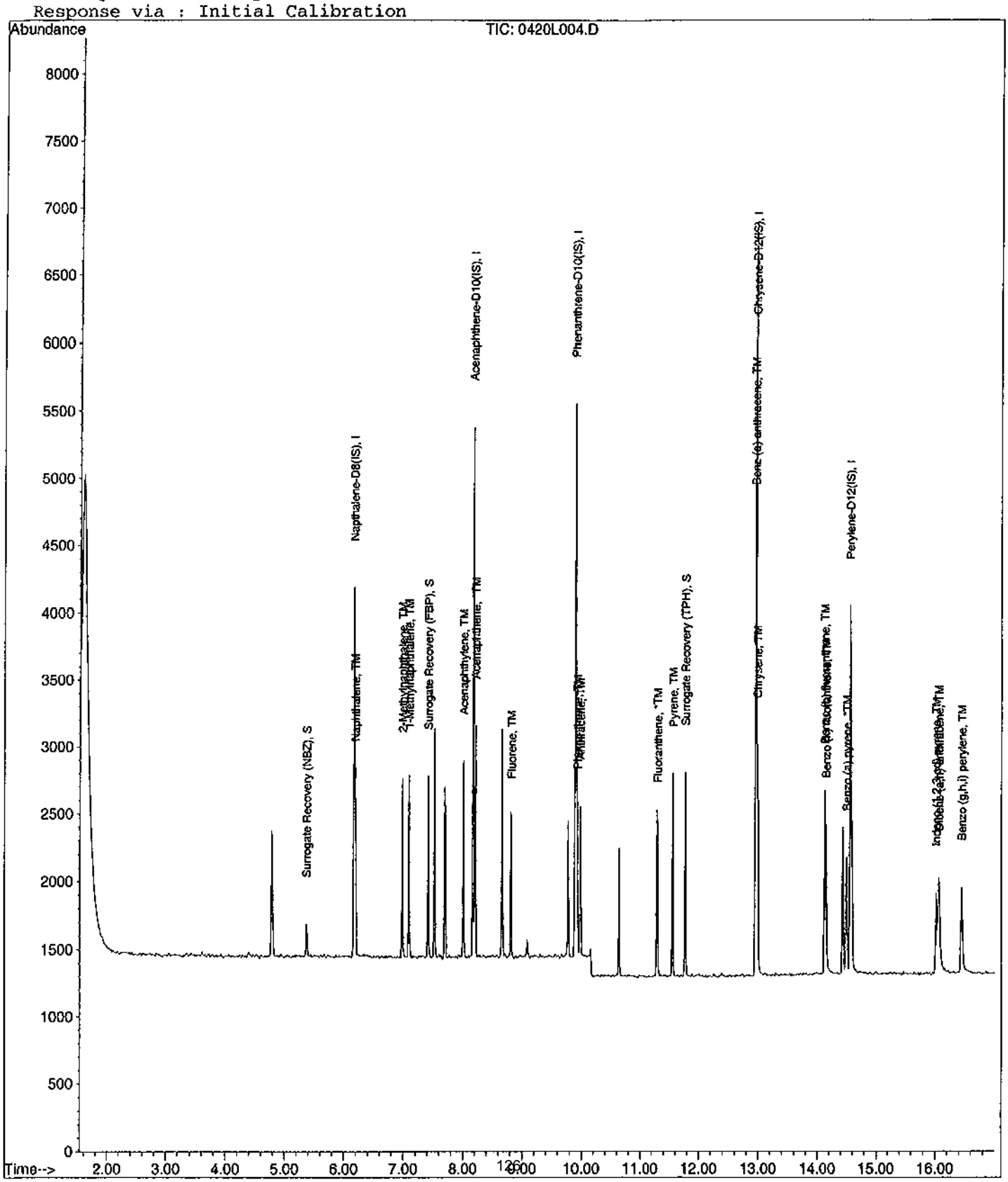
(#) = qualifier out of range (m) = manual integration
0420L004.D SIM2.M Fri Apr 22 15:15:25 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L004.D Vial: 4
Acq On : 20 Apr 11 22:10 Operator: LF
Sample : 0.5ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L005.D Vial: 5
Acq On : 20 Apr 11 22:35 Operator: LF
Sample : 1.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

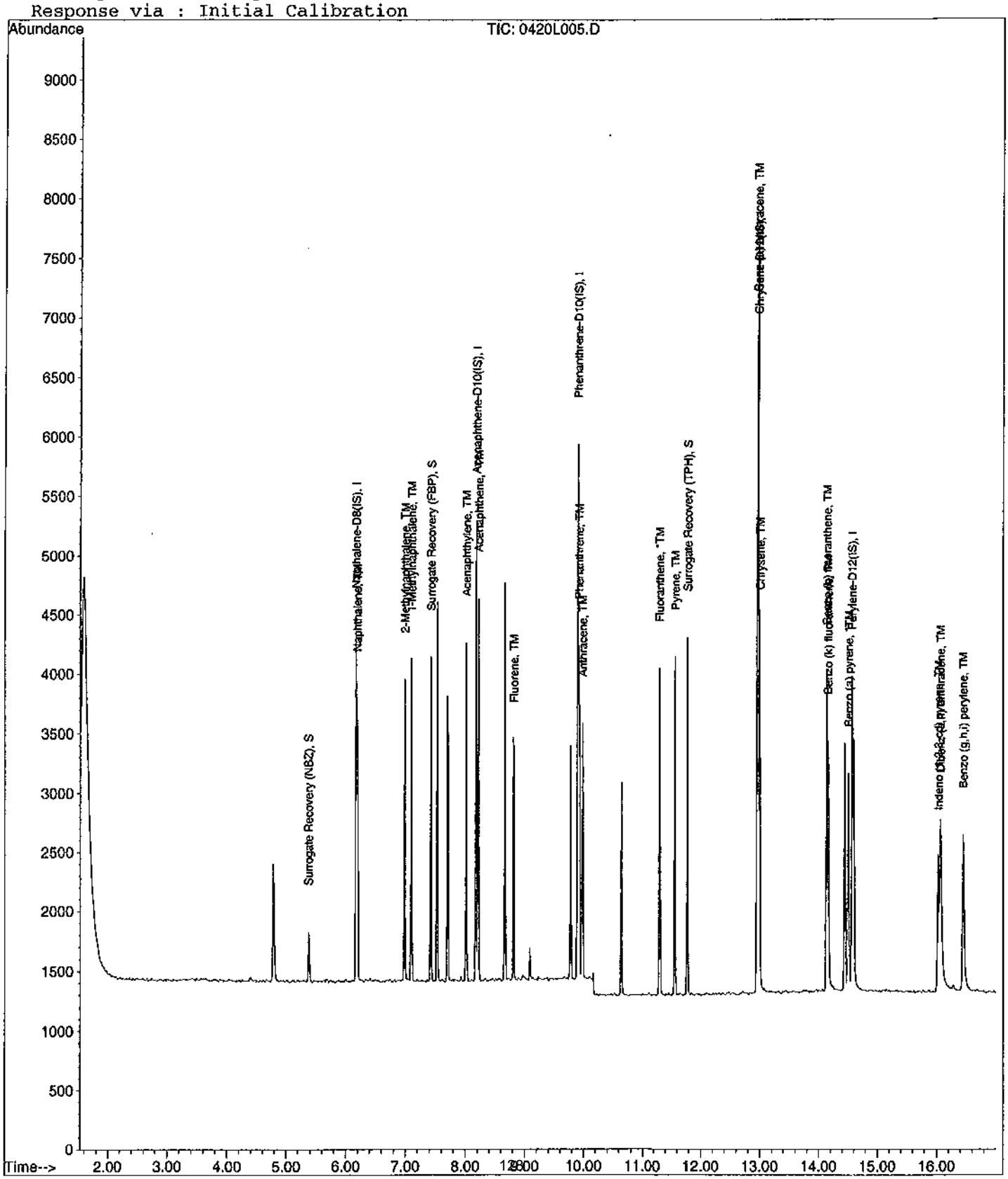
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.17	136	3066	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.18	164	1685	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	3423	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3982	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	3191	2.50000 ppb		-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.37	82	338	1.41900 ppb		0.00
Spiked Amount 2.000			Recovery = 70.950%			
7) Surrogate Recovery (FBP)	7.42	172	1440	1.12348 ppb		0.00
Spiked Amount 2.000			Recovery = 56.150%			
17) Surrogate Recovery (TPH)	11.77	244	1896	1.32165 ppb		0.00
Spiked Amount 2.000			Recovery = 66.100%			
Target Compounds						Qvalue
3) Naphthalene	6.19	128	1971	1.12463 ppb		99
4) 2-Methylnaphthalene	6.99	142	1314	1.31460 ppb		99
5) 1-Methylnaphthalene	7.10	142	1270	1.08291 ppb		98
8) Acenaphthylene	8.01	152	1918	1.20085 ppb		100
9) Acenaphthene	8.22	154	1110	1.16107 ppb		99
10) Fluorene	8.82	166	1319	1.16580 ppb		100
12) Phenanthrene	9.92	178	2083	1.22006 ppb		96
13) Anthracene	9.98	178	1686	1.10876 ppb		100
14) Fluoranthene	11.29	202	2944	1.06731 ppb	#	77
16) Pyrene	11.56	202	3033	1.40485 ppb		98
18) Benz (a) anthracene	12.95	228	2674	1.45432 ppb		98
19) Chrysene	13.00	228	2393	1.17398 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.03	276	1657	1.00964 ppb	#	96
22) Benzo (b) fluoranthene	14.13	252	2327	1.43244 ppb		98
23) Benzo (k) fluoranthene	14.15	252	2269	1.11639 ppb	#	94
24) Benzo (a) pyrene	14.50	252	2070	1.26475 ppb		97
25) Dibenz (a,h) anthracene	16.07	278	1709	1.24572 ppb	#	94
26) Benzo (g,h,i) perylene	16.45	276	1888	1.29865 ppb		95

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L005.D Vial: 5
Acq On : 20 Apr 11 22:35 Operator: LF
Sample : 1.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L006.D Vial: 6
Acq On : 20 Apr 11 23:01 Operator: LF
Sample : 5.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 8:00 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

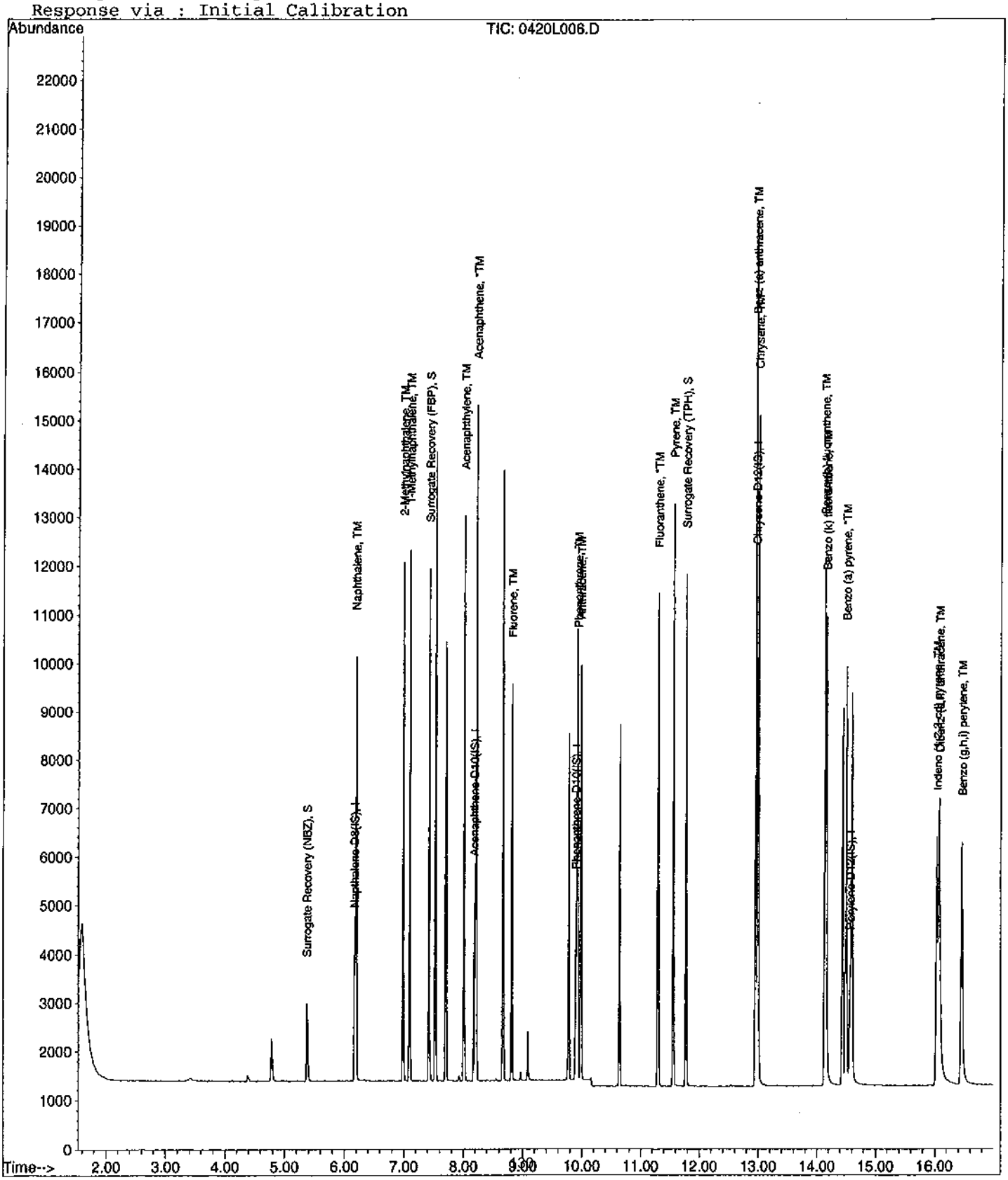
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2790	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.18	164	1524	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.90	188	2709	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.96	240	3273	2.50000 ppb	0.00
21) Perylene-D12(IS)	14.57	264	2558	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.37	82	1341	3.49355 ppb	0.00
Spiked Amount 2.000			Recovery	= 174.700%	
7) Surrogate Recovery (FBP)	7.42	172	5488	4.73402 ppb	0.00
Spiked Amount 2.000			Recovery	= 236.700%	
17) Surrogate Recovery (TPH)	11.77	244	7213	6.11714 ppb	0.00
Spiked Amount 2.000			Recovery	= 305.850%	
Target Compounds					Qvalue
3) Naphthalene	6.19	128	7737	4.85135 ppb	100
4) 2-Methylnaphthalene	6.99	142	5291	5.81705 ppb	100
5) 1-Methylnaphthalene	7.10	142	5047	4.72921 ppb	100
8) Acenaphthylene	8.01	152	7691	5.32400 ppb	100
9) Acenaphthene	8.22	154	4524	5.23207 ppb	100
10) Fluorene	8.82	166	5261	5.14120 ppb	100
12) Phenanthrene	9.93	178	8054	5.96078 ppb	100
13) Anthracene	9.98	178	6890	5.72527 ppb	100
14) Fluoranthene	11.30	202	11331	5.19063 ppb	100
16) Pyrene	11.56	202	11712	6.60000 ppb	100
18) Benz (a) anthracene	12.95	228	10269	6.79490 ppb	100
19) Chrysene	13.00	228	9441	5.63498 ppb	100
20) Indeno (1,2,3-cd) pyrene	16.03	276	6555	4.85927 ppb	100
22) Benzo (b) fluoranthene	14.13	252	8792	6.75142 ppb	100
23) Benzo (k) fluoranthene	14.16	252	9484	5.82101 ppb	100
24) Benzo (a) pyrene	14.50	252	8298	6.32459 ppb	100
25) Dibenz (a,h) anthracene	16.08	278	6755	6.14230 ppb	100
26) Benzo (g,h,i) perylene	16.46	276	7423	6.36935 ppb	100

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L006.D Vial: 6
Acq On : 20 Apr 11 23:01 Operator: LF
Sample : 5.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 8:00 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L007.D Vial: 7
Acq On : 20 Apr 11 23:27 Operator: LF
Sample : 10ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

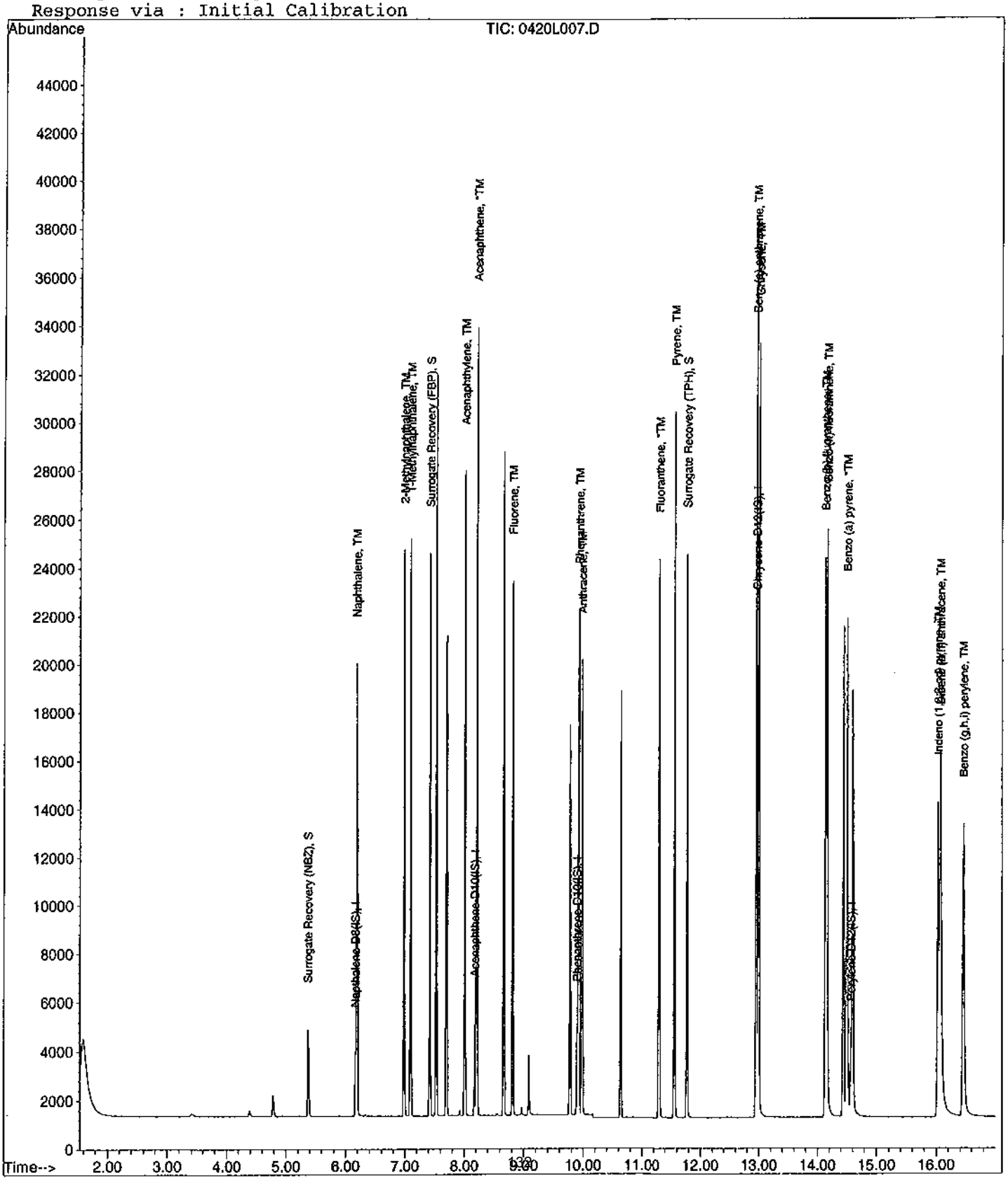
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2769	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.18	164	1507	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.90	188	2912	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.96	240	3578	2.50000 ppb	0.00
21) Perylene-D12(IS)	14.57	264	2756	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.37	82	2993	6.85542 ppb	0.00
Spiked Amount 2.000			Recovery = 342.750%		
7) Surrogate Recovery (FBP)	7.42	172	11986	10.45592 ppb	0.00
Spiked Amount 2.000			Recovery = 522.800%		
17) Surrogate Recovery (TPH)	11.77	244	16134	12.51641 ppb	0.00
Spiked Amount 2.000			Recovery = 625.800%		
Target Compounds					Qvalue
3) Naphthalene	6.19	128	17043	10.76756 ppb	100
4) 2-Methylnaphthalene	6.99	142	11865	13.14360 ppb	99
5) 1-Methylnaphthalene	7.10	142	11371	10.73581 ppb	99
8) Acenaphthylene	8.01	152	17625	12.33833 ppb	99
9) Acenaphthene	8.22	154	10131	11.84881 ppb	97
10) Fluorene	8.82	166	12146	12.00331 ppb	97
12) Phenanthrene	9.93	178	17781	12.24236 ppb	99
13) Anthracene	9.98	178	15088	11.66342 ppb	99
14) Fluoranthene	11.30	202	25519	10.87509 ppb	100
16) Pyrene	11.56	202	26680	13.75321 ppb	100
18) Benz (a) anthracene	12.95	228	22906	13.86467 ppb	99
19) Chrysene	13.00	228	21271	11.61363 ppb	100
20) Indeno (1,2,3-cd) pyrene	16.03	276	16828	11.41132 ppb	94
22) Benzo (b) fluoranthene	14.13	252	25117	17.90180 ppb	98
23) Benzo (k) fluoranthene	14.16	252	17323	9.86849 ppb	99
24) Benzo (a) pyrene	14.50	252	19179	13.56771 ppb	99
25) Dibenz (a,h) anthracene	16.08	278	16880	14.24622 ppb	99
26) Benzo (g,h,i) perylene	16.46	276	17374	13.83684 ppb	97

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L007.D Vial: 7
Acq On : 20 Apr 11 23:27 Operator: LF
Sample : 10ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L008.D Vial: 8
Acq On : 20 Apr 11 23:52 Operator: LF
Sample : 50ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2619	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1461	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	2706	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	3281	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.57	264	2626	2.50000 ppb		0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	14429	31.65824 ppb		0.01
Spiked Amount 2.000			Recovery = 1582.900%			
7) Surrogate Recovery (FBP)	7.42	172	45452	40.89818 ppb		0.00
Spiked Amount 2.000			Recovery = 2044.900%			
17) Surrogate Recovery (TPH)	11.78	244	61204	51.77877 ppb		0.01
Spiked Amount 2.000			Recovery = 2588.950%			
Target Compounds						Qvalue
3) Naphthalene	6.20	128	66602	44.48830 ppb		97
4) 2-Methylnaphthalene	6.99	142	45324	53.08384 ppb		99
5) 1-Methylnaphthalene	7.10	142	42121	42.04578 ppb		98
8) Acenaphthylene	8.01	152	65610	47.37621 ppb		98
9) Acenaphthene	8.22	154	37925	45.75211 ppb		95
10) Fluorene	8.82	166	46744	47.64930 ppb		95
12) Phenanthrene	9.93	178	67803	50.23672 ppb		98
13) Anthracene	9.99	178	58810	48.92254 ppb		98
14) Fluoranthene	11.30	202	97789	44.84590 ppb	#	91
16) Pyrene	11.56	202	99166	55.74620 ppb	#	90
18) Benz (a) anthracene	12.96	228	89321	58.95873 ppb		95
19) Chrysene	13.00	228	81106	48.29111 ppb	#	94
20) Indeno (1,2,3-cd) pyrene	16.04	276	71595	52.94444 ppb	#	85
22) Benzo (b) fluoranthene	14.14	252	85119	63.67074 ppb	#	97
23) Benzo (k) fluoranthene	14.17	252	77135	46.11729 ppb	#	97
24) Benzo (a) pyrene	14.51	252	75395	55.97673 ppb		98
25) Dibenz (a,h) anthracene	16.09	278	71307	63.16027 ppb		97
26) Benzo (g,h,i) perylene	16.48	276	71255	59.55756 ppb		97

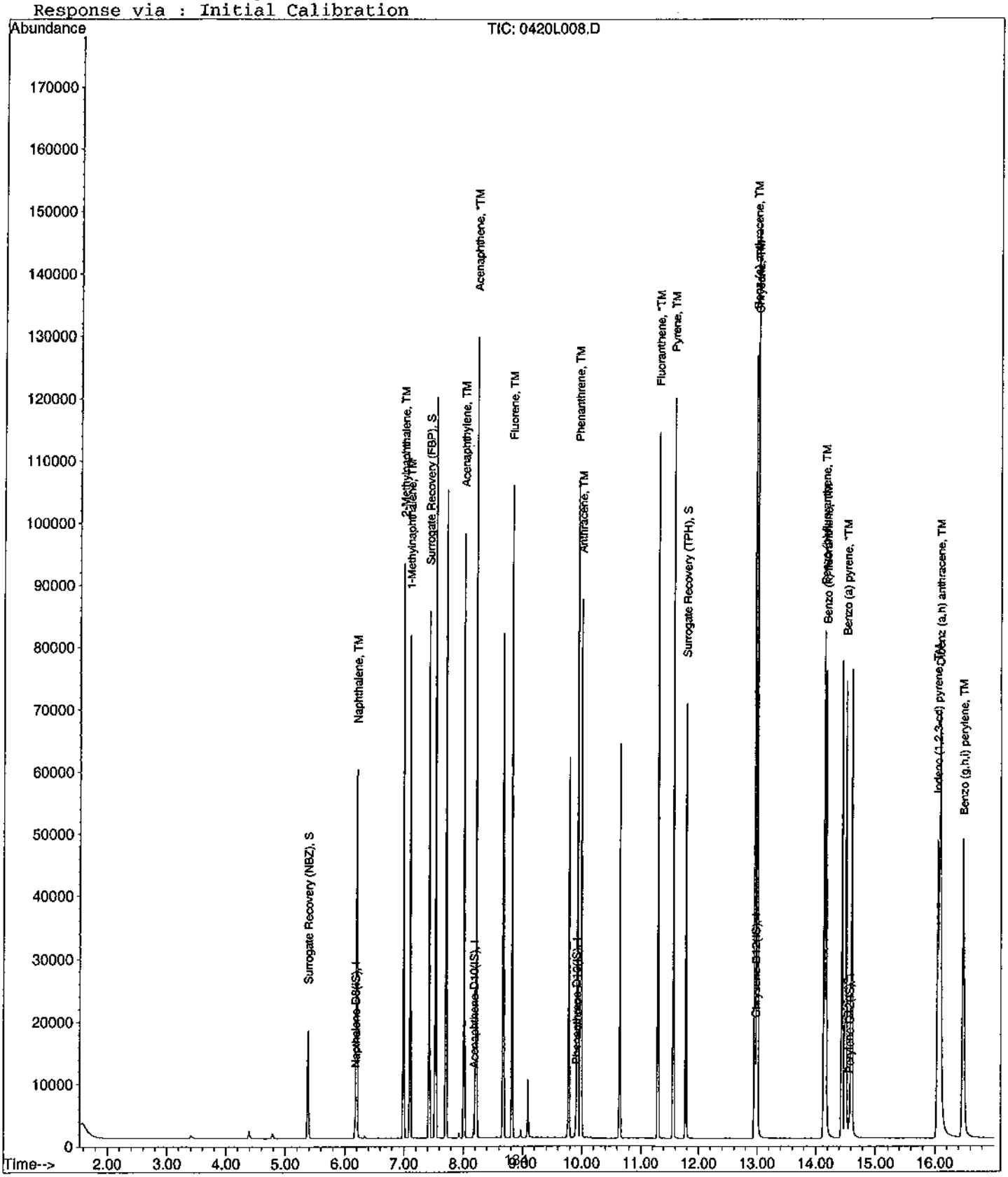
(#) = qualifier out of range (m) = manual integration
0420L008.D SIM2.M Fri Apr 22 15:15:31 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L008.D Vial: 8
Acq On : 20 Apr 11 23:52 Operator: LF
Sample : 50ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L009.D Vial: 9
Acq On : 21 Apr 11 00:18 Operator: LF
Sample : 100ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2444	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1291	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	2528	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	3267	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.58	264	2538	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	29768	69.01924 ppb		0.01
Spiked Amount 2.000			Recovery	= 3450.950%		
7) Surrogate Recovery (FBP)	7.42	172	79340	80.79178 ppb		0.00
Spiked Amount 2.000			Recovery	= 4039.600%		
17) Surrogate Recovery (TPH)	11.78	244	108916	92.53813 ppb		0.01
Spiked Amount 2.000			Recovery	= 4626.900%		
Target Compounds						Qvalue
3) Naphthalene	6.20	128	122757	87.86969 ppb		98
4) 2-Methylnaphthalene	6.99	142	79622	99.93128 ppb		97
5) 1-Methylnaphthalene	7.10	142	73299	78.40723 ppb		97
8) Acenaphthylene	8.01	152	116577	95.26364 ppb		98
9) Acenaphthene	8.22	154	65819	89.85884 ppb		91
10) Fluorene	8.82	166	79247	91.41921 ppb		93
12) Phenanthrene	9.93	178	116627	92.49584 ppb		97
13) Anthracene	9.99	178	100235	89.25404 ppb		99
14) Fluoranthene	11.30	202	171669	84.27046 ppb	#	81
16) Pyrene	11.57	202	183086	103.36291 ppb	#	94
18) Benz (a) anthracene	12.96	228	163204	108.18883 ppb		98
19) Chrysene	13.01	228	146416	87.55074 ppb		98
20) Indeno (1,2,3-cd) pyrene	16.06	276	135700	100.78006 ppb	#	100
22) Benzo (b) fluoranthene	14.14	252	172982	133.88053 ppb		98
23) Benzo (k) fluoranthene	14.17	252	117353	72.59548 ppb	#	96
24) Benzo (a) pyrene	14.52	252	137988	106.00087 ppb	#	96
25) Dibenz (a,h) anthracene	16.10	278	134639	123.39165 ppb	#	94
26) Benzo (g,h,i) perylene	16.50	276	135242	116.95971 ppb	#	93

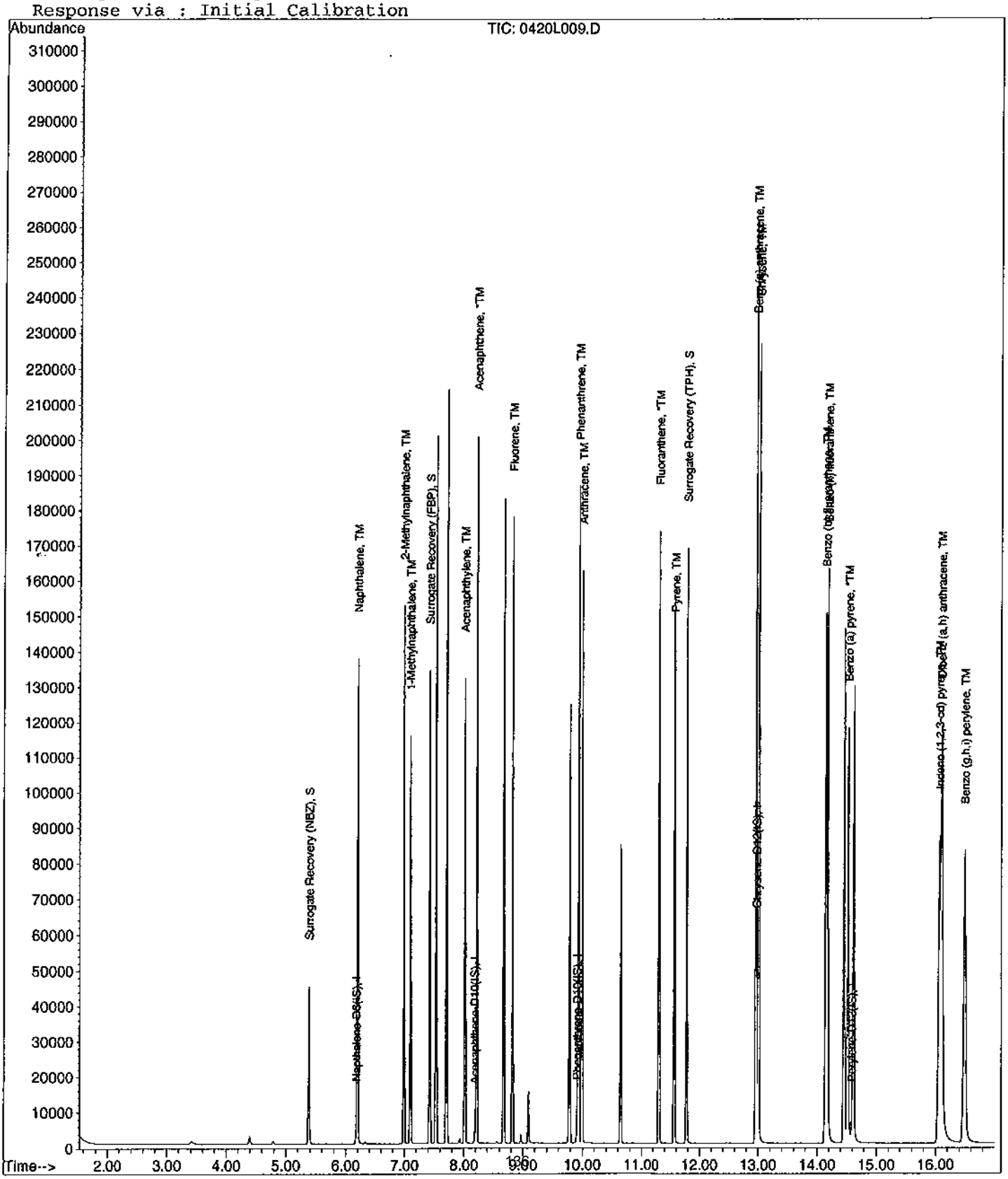
(#) = qualifier out of range (m) = manual integration
0420L009.D SIM2.M Fri Apr 22 15:15:33 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L009.D Vial: 9
Acq On : 21 Apr 11 00:18 Operator: LF
Sample : 100ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Form 7

Second Source Calibration

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

SDG No: 64415
Date Analyzed: 04/21/11
Instrument: Linus
Initial Cal. Date: 04/20/11
Data File: 0420L010.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	1.534	1.383	9.8	TM	
3	TM	2-Methylnaphthalene	1.020	0.9392	7.9	TM	
4	TM	1-Methylnaphthalene	0.9740	0.8971	7.9	TM	
5	I	Acenaphthene-D10(IS)	ISTD			I	
6	TM	Acenaphthylene	2.716	2.677	1.4	TM	
7	*TM	Acenaphthene	1.561	1.533	1.8	*TM	
8	TM	Fluorene	1.876	1.836	2.2	TM	
9	I	Phenanthrene-D10(IS)	ISTD			I	
10	TM	Phenanthrene	1.488	1.475	0.87	TM	
11	TM	Anthracene	1.274	1.205	5.4	TM	
12	*TM	Fluoranthene	2.083	2.039	2.1	*TM	
13	I	Chrysene-D12(IS)	ISTD			I	
14	TM	Pyrene	1.816	1.779	2.1	TM	
15	TM	Benz (a) anthracene	1.592	1.520	4.5	TM	
16	TM	Chrysene	1.429	1.414	1.0	TM	
17	TM	Indeno (1,2,3-cd) pyrene	1.119	1.044	6.7	TM	
18	I	Perylene-D12(IS)	ISTD			I	
19	TM	Benzo (b) fluoranthene	1.860	1.719	7.6	TM	
20	TM	Benzo (k) fluoranthene	1.667	1.897	14	TM	
21	*TM	Benzo (a) pyrene	1.596	1.612	1.0	*TM	
22	TM	Dibenz (a,h) anthracene	1.376	1.373	0.22	TM	
23	TM	Benzo (g,h,i) perylene	1.471	1.452	1.3	TM	
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			4.3		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L010.D Vial: 10
Acq On : 21 Apr 11 00:43 Operator: LF
Sample : 5.0ug/ml PAH SS 04-11-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 8:03 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2897	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.18	164	1519	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.90	188	2825	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.96	240	3364	2.50000 ppb	0.00
21) Perylene-D12(IS)	14.57	264	2611	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	0.00	82	0d	0.60610 ppb	
Spiked Amount 2.000			Recovery	= 30.300%	
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	6.19	128	8015	4.51029 ppb	100
4) 2-Methylnaphthalene	6.99	142	5442	4.60274 ppb	100
5) 1-Methylnaphthalene	7.10	142	5198	4.60535 ppb	99
8) Acenaphthylene	8.01	152	8132	4.92763 ppb	100
9) Acenaphthene	8.22	154	4657	4.90884 ppb	98
10) Fluorene	8.82	166	5579	4.88878 ppb	99
12) Phenanthrene	9.93	178	8334	4.95633 ppb	99
13) Anthracene	9.99	178	6810	4.73072 ppb	97
14) Fluoranthene	11.30	202	11518	4.89349 ppb	99
16) Pyrene	11.56	202	11969	4.89704 ppb	100
18) Benz (a) anthracene	12.95	228	10225	4.77324 ppb	99
19) Chrysene	13.00	228	9515	4.94869 ppb	100
20) Indeno (1,2,3-cd) pyrene	16.03	276	7026	4.66422 ppb #	92
22) Benzo (b) fluoranthene	14.13	252	8978	4.62229 ppb	99
23) Benzo (k) fluoranthene	14.16	252	9906	5.69029 ppb	99
24) Benzo (a) pyrene	14.50	252	8418	5.05004 ppb	99
25) Dibenz (a,h) anthracene	16.08	278	7171	4.98877 ppb	99
26) Benzo (g,h,i) perylene	16.46	276	7582	4.93474 ppb	98

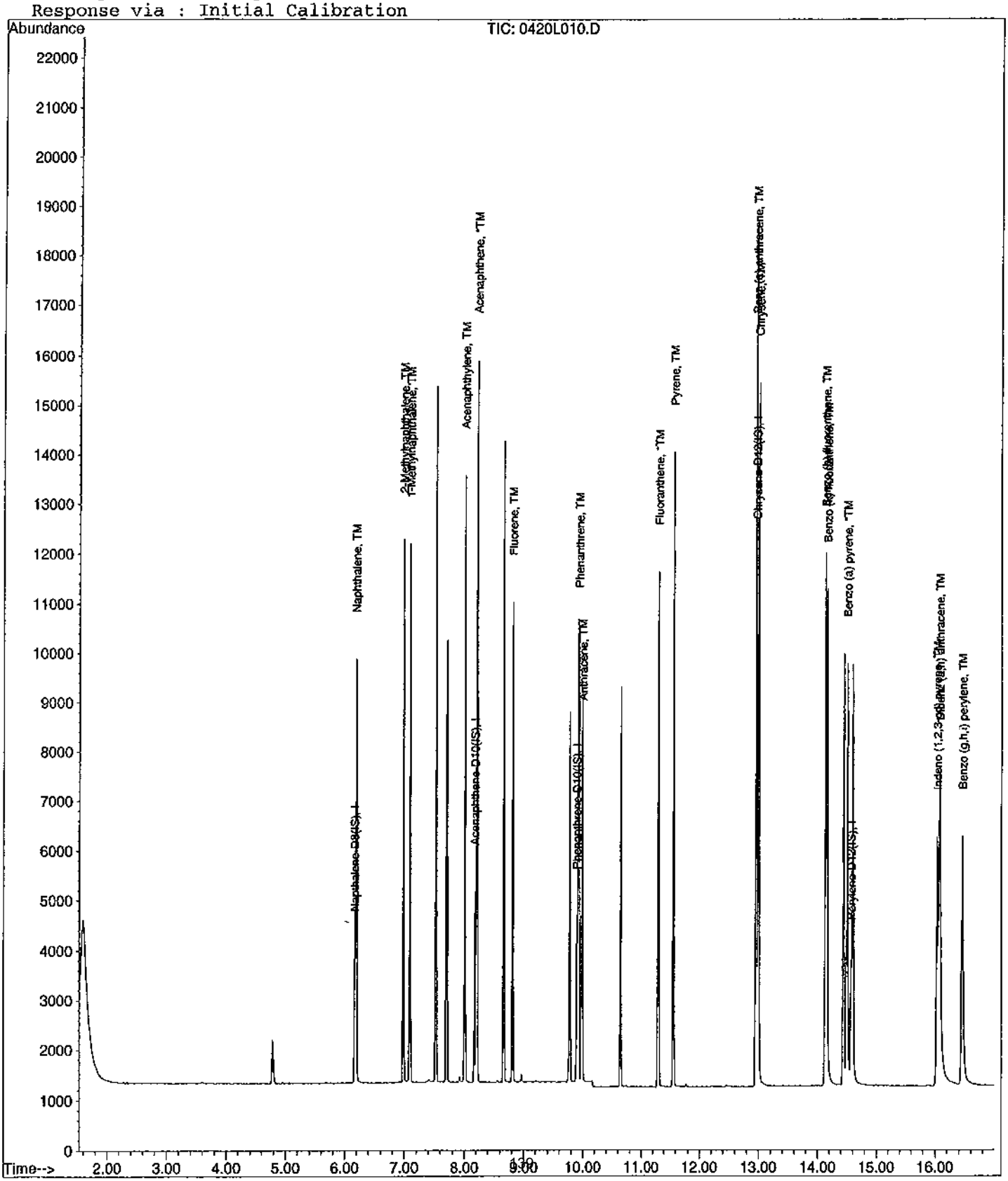
(#) = qualifier out of range (m) = manual integration
0420L010.D SIM2.M Fri Apr 22 15:15:48 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L010.D Vial: 10
Acq On : 21 Apr 11 00:43 Operator: LF
Sample : 5.0ug/ml PAH SS 04-11-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 8:03 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Form 7

Continuing Calibration

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

SDG No: 64475
Date Analyzed: 05/11/11
Instrument: Linus
Initial Cal. Date: 04/20/11
Data File: 0511L002.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Napthalene-D8(IS)	ISTD			I	
2	SL	Surrogate Recovery (NBZ)	0.3418	0.2711	21	SL	2.2
3	TM	Naphthalene	1.534	1.491	2.8	TM	
4	TM	2-Methylnaphthalene	1.020	0.9869	3.3	TM	
5	TM	1-Methylnaphthalene	0.9740	0.9457	2.9	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	S	Surrogate Recovery (FBP)	1.967	2.158	9.7	S	
8	TM	Acenaphthylene	2.716	3.032	12	TM	
9	*TM	Acenaphthene	1.661	1.758	13	*TM	
10	TM	Fluorene	1.878	2.026	7.9	TM	
11	I	Phenanthrene-D10(IS)	ISTD			I	
12	TM	Phenanthrene	1.488	1.675	13	TM	
13	TM	Anthracene	1.274	1.317	3.4	TM	
14	*TM	Fluoranthene	2.083	2.171	4.2	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.816	1.897	4.4	TM	
17	S	Surrogate Recovery (TPH)	1.100	1.064	3.2	S	
18	TM	Benz (a) anthracene	1.592	1.587	0.29	TM	
19	TM	Chrysene	1.429	1.360	4.8	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.119	1.260	13	TM	
21	I	Perylene-D12(IS)	ISTD			I	
22	TM	Benzo (b) fluoranthene	1.860	1.670	10	TM	
23	TM	Benzo (k) fluoranthene	1.667	1.936	16	TM	
24	*TM	Benzo (a) pyrene	1.596	1.646	3.1	*TM	
25	TM	Dibenz (a,h) anthracene	1.376	1.317	4.3	TM	
26	TM	Benzo (g,h,i) perylene	1.471	1.391	5.5	TM	
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			7.5		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0511L002.D Vial: 2
Acq On : 11 May 11 19:37 Operator: LF
Sample : 5.0ug/ml PAH 04-20-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 13 19:35 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed May 11 10:12:00 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	3787	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1816	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	3185	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	4398	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.58	264	3396	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	2053	5.11233 ppb		0.01
Spiked Amount 2.000			Recovery	= 255.600%		
7) Surrogate Recovery (FBP)	7.42	172	7838	5.48598 ppb		0.00
Spiked Amount 2.000			Recovery	= 274.300%		
17) Surrogate Recovery (TPH)	11.78	244	9362	4.83796 ppb		0.01
Spiked Amount 2.000			Recovery	= 241.900%		
Target Compounds						Qvalue
3) Naphthalene	6.20	128	11292	4.86099 ppb		97
4) 2-Methylnaphthalene	6.99	142	7475	4.83640 ppb		98
5) 1-Methylnaphthalene	7.10	142	7163	4.85484 ppb		98
8) Acenaphthylene	8.01	152	11012	5.58147 ppb		99
9) Acenaphthene	8.22	154	6386	5.63046 ppb		96
10) Fluorene	8.82	166	7359	5.39393 ppb		98
12) Phenanthrene	9.93	178	10672	5.62940 ppb		99
13) Anthracene	9.99	178	8390	5.16953 ppb		97
14) Fluoranthene	11.30	202	13827	5.21049 ppb		88
16) Pyrene	11.56	202	16682	5.22065 ppb	#	82
18) Benz (a) anthracene	12.96	228	13962	4.98538 ppb		95
19) Chrysene	13.00	228	11962	4.75868 ppb	#	94
20) Indeno (1,2,3-cd) pyrene	16.05	276	11084	5.62818 ppb		91
22) Benzo (b) fluoranthene	14.14	252	11345	4.49078 ppb		100
23) Benzo (k) fluoranthene	14.17	252	13146	5.80589 ppb		99
24) Benzo (a) pyrene	14.51	252	11178	5.15572 ppb		99
25) Dibenz (a,h) anthracene	16.10	278	8948	4.78606 ppb		96
26) Benzo (g,h,i) perylene	16.48	276	9446	4.72681 ppb	#	94

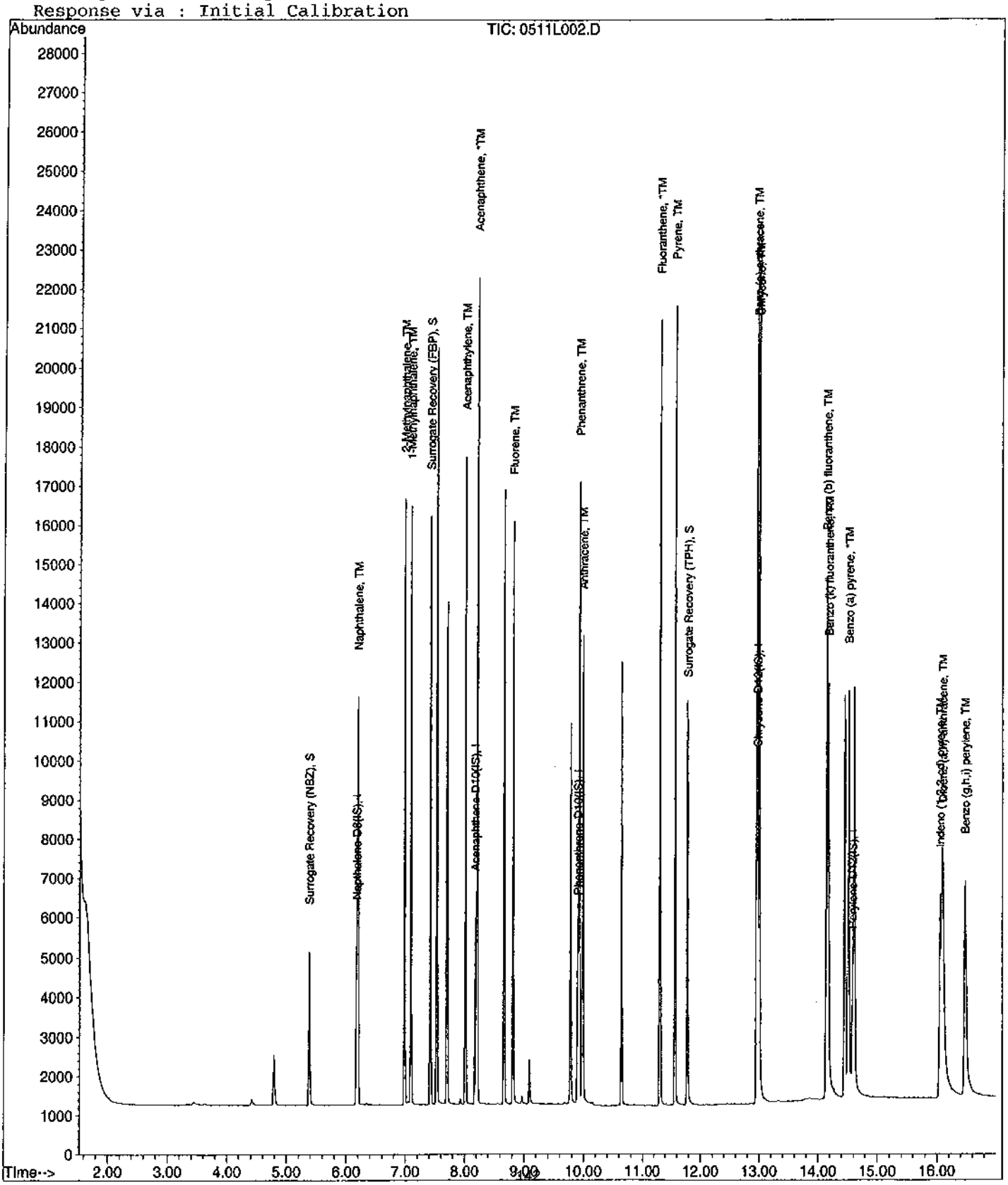
(#) = qualifier out of range (m) = manual integration
0511L002.D SIM2.M Mon May 16 19:06:57 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0511L002.D Vial: 2
Acq On : 11 May 11 19:37 Operator: LF
Sample : 5.0ug/ml PAH 04-20-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 13 19:35 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Raw Data

APPL, INC.

Method Blank
EPA 8270D SIM

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110425W-36312 - 155155**
Batch ID: #SIMHC-110425A

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	04/25/11	05/11/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/11/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/11/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/11/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/11/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/11/11
BLANK	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/11/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/11/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/11/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/11/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/11/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/11/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/11/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	04/25/11	05/11/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/11/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	04/25/11	05/11/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	04/25/11	05/11/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	04/25/11	05/11/11
BLANK	SURROGATE: 2-FLUORBIPHENY	56.0	50-110			%	04/25/11	05/11/11
BLANK	SURROGATE: NITROBENZENE-	87.6	40-110			%	04/25/11	05/11/11
BLANK	SURROGATE: TERPHENYL-D14 (	58.6	50-135			%	04/25/11	05/11/11

Quant Method: SIM2.M
Run #: 0511L003
Instrument: Linus
Sequence: L110420
Initials: LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 7:25:05 PM

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0511L003.D Vial: 3
Acq On : 11 May 11 20:03 Operator: LF
Sample : 110425A BLK 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 18:51 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed May 11 10:12:00 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	3867	2.50000 ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	1787	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	3296	2.50000 ppb	0.01
15) Chrysene-D12(IS)	12.97	240	4205	2.50000 ppb	0.01
21) Perylene-D12(IS)	14.58	264	3185	2.50000 ppb	0.01
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.38	82	533	1.75181 ppb	0.01
Spiked Amount 2.000			Recovery	= 87.600%	
7) Surrogate Recovery (FBP)	7.42	172	1575	1.12027 ppb	0.00
Spiked Amount 2.000			Recovery	= 56.000%	
17) Surrogate Recovery (TPH)	11.77	244	2167	1.17123 ppb	0.00
Spiked Amount 2.000			Recovery	= 58.550%	

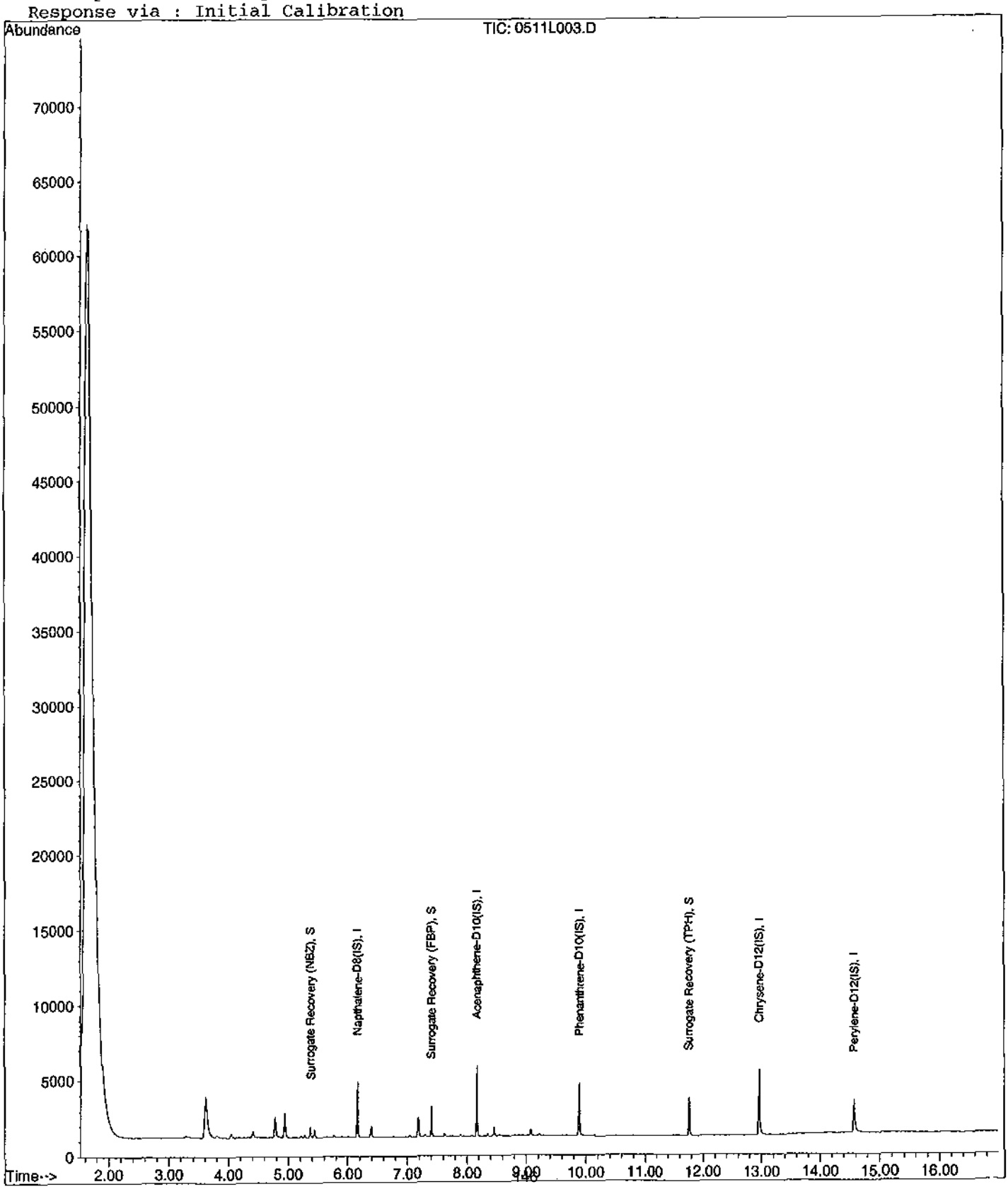
Target Compounds Qvalue

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0511L003.D Vial: 3
Acq On : 11 May 11 20:03 Operator: LF
Sample : 110425A BLK 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 18:51 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: **110425W-36312 LCS - 155155**
Batch ID: #SIMHC-110425A

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	2.05	51.2	45-105
2-METHYLNAPHTHALENE	4.00	2.08	52.0	45-105
ACENAPHTHENE	4.00	2.20	55.0	45-110
ACENAPHTHYLENE	4.00	2.21	55.3	50-105
ANTHRACENE	4.00	2.78	69.5	55-110
BENZO(A)ANTHRACENE	4.00	2.27	56.8	55-110
BENZO(A)PYRENE	4.00	2.70	67.5	55-110
BENZO(B)FLUORANTHENE	4.00	2.31	57.8	45-120
BENZO(GHI)PERYLENE	4.00	2.53	63.2	40-125
BENZO(K)FLUORANTHENE	4.00	3.19	79.8	45-125
CHRYSENE	4.00	3.17	79.3	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.53	63.2	40-125
FLUORANTHENE	4.00	3.10	77.5	55-115
FLUORENE	4.00	2.50	62.5	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.87	71.8	45-125
NAPHTHALENE	4.00	2.07	51.7	40-100
PHENANTHRENE	4.00	2.85	71.3	50-115
PYRENE	4.00	2.67	66.8	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.08	54.0	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.89	94.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.29	64.5	50-135

Comments:

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	04/25/11
Analysis Date :	05/11/11
Instrument :	Linus
Run :	0511L004
Initials :	LF

Printed: 05/16/11 7:25:08 PM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0511L004.D Vial: 4
Acq On : 11 May 11 20:28 Operator: LF
Sample : 110425A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 18:52 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed May 11 10:12:00 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	3468	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1678	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	3045	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	4147	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.57	264	3103	2.50000 ppb		0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	534	1.88602 ppb		0.01
Spiked Amount 2.000			Recovery = 94.300%			
7) Surrogate Recovery (FBP)	7.42	172	1425	1.07941 ppb		0.00
Spiked Amount 2.000			Recovery = 53.950%			
17) Surrogate Recovery (TPH)	11.77	244	2346	1.28571 ppb		0.00
Spiked Amount 2.000			Recovery = 64.300%			
Target Compounds						Qvalue
3) Naphthalene	6.20	128	4406	2.07117 ppb		98
4) 2-Methylnaphthalene	6.99	142	2947	2.08213 ppb		100
5) 1-Methylnaphthalene	7.10	142	2774	2.05306 ppb		99
8) Acenaphthylene	8.01	152	4021	2.20567 ppb		98
9) Acenaphthene	8.22	154	2307	2.20133 ppb		97
10) Fluorene	8.82	166	3157	2.50429 ppb		98
12) Phenanthrene	9.93	178	5158	2.84590 ppb		99
13) Anthracene	9.99	178	4315	2.78094 ppb		97
14) Fluoranthene	11.30	202	7853	3.09534 ppb	#	92
16) Pyrene	11.56	202	8038	2.66775 ppb	#	89
18) Benz (a) anthracene	12.96	228	6005	2.27397 ppb		95
19) Chrysene	13.00	228	7516	3.17096 ppb	#	96
20) Indeno (1,2,3-cd) pyrene	16.05	276	5331	2.87079 ppb	#	91
22) Benzo (b) fluoranthene	14.14	252	5339	2.31293 ppb		99
23) Benzo (k) fluoranthene	14.16	252	6604	3.19204 ppb	#	93
24) Benzo (a) pyrene	14.51	252	5357	2.70416 ppb		99
25) Dibenz (a,h) anthracene	16.10	278	4320	2.52885 ppb		96
26) Benzo (g,h,i) perylene	16.49	276	4620	2.53016 ppb		96

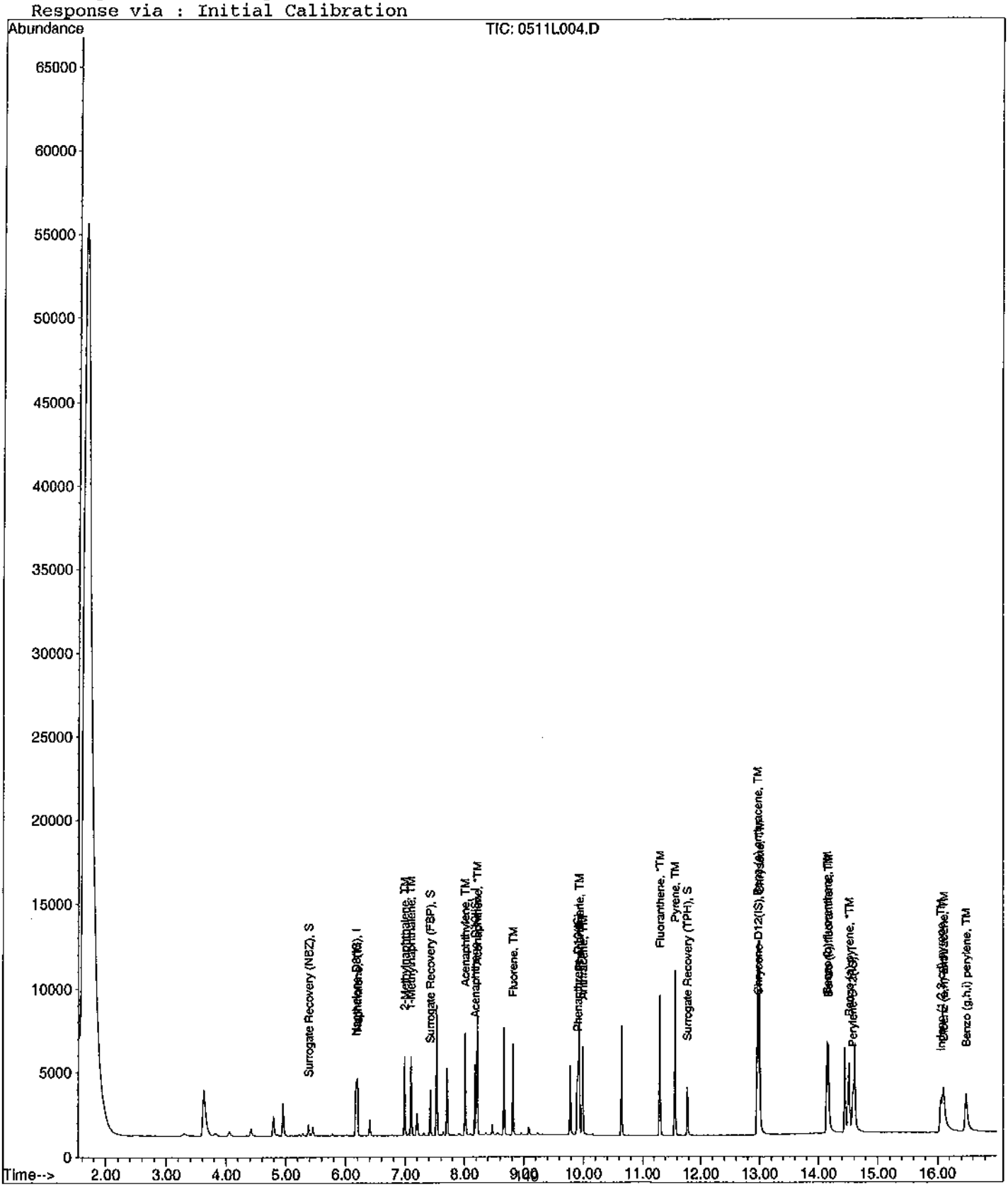
(#) = qualifier out of range (m) = manual integration
0511L004.D SIM2.M Mon May 16 19:07:05 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0511L004.D Vial: 4
Acq On : 11 May 11 20:28 Operator: LF
Sample : 110425A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 18:52 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



Matrix Spike Recoveries

EPA 8270D SIM

APPL ID: **110425W-36312 MS - 155155**
Batch ID: #SIMHC-110425A
Sample ID: AY36312
Client ID: ES020

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	5.1	6.87	7.01	45.1	48.7	45-105	2.0	25
2-METHYLNAPHTHALENE	3.92	0.43	2.20	2.32	45.1	48.2	45-105	5.3	25
ACENAPHTHENE	3.92	0.18	2.36	2.34	55.6	55.1	45-110	0.85	25
ACENAPHTHYLENE	3.92	0.071	2.41	2.40	59.6	59.4	50-105	0.42	25
ANTHRACENE	3.92	ND	2.76	2.69	70.4	68.6	55-110	2.6	25
BENZO(A)ANTHRACENE	3.92	ND	2.32	2.32	59.2	59.2	55-110	0.0	25
BENZO(A)PYRENE	3.92	ND	2.43	2.43	62.0	62.0	55-110	0.0	25
BENZO(B)FLUORANTHENE	3.92	ND	2.18	2.14	55.6	54.6	45-120	1.9	25
BENZO(GHI)PERYLENE	3.92	ND	2.33	2.30	59.4	58.6	40-125	1.3	25
BENZO(K)FLUORANTHENE	3.92	ND	2.55	2.59	65.0	66.0	45-125	1.6	25
CHRYSENE	3.92	ND	2.60	2.57	66.3	65.5	55-110	1.2	25
DIBENZ(A,H)ANTHRACENE	3.92	ND	2.40	2.35	61.2	59.9	40-125	2.1	25
FLUORANTHENE	3.92	ND	2.86	2.81	72.9	71.6	55-115	1.8	25
FLUORENE	3.92	0.086	2.44	2.38	60.0	58.5	50-110	2.5	25
INDENO(1,2,3-CD)PYRENE	3.92	ND	3.06	3.06	78.0	78.0	45-125	0.0	25
NAPHTHALENE	3.92	3.5	5.42	6.01	49.0	64.0	40-100	10.3	25
PHENANTHRENE	3.92	ND	2.53	2.49	64.5	63.5	50-115	1.6	25
PYRENE	3.92	ND	2.46	2.47	62.7	63.0	50-130	0.41	25
SURROGATE: 2-FLUORBIPHENYL (S)	1.96	NA	1.07	1.07	54.6	54.6	50-110		
SURROGATE: NITROBENZENE-D5 (S)	1.96	NA	1.72	1.45	87.7	73.9	40-110		
SURROGATE: TERPHENYL-D14 (S)	1.96	NA	1.02	1.05	52.0	53.5	50-135		

Comments: _____

Primary	SPK	DUP
Quant Method :	SIM2.M	SIM2.M
Extraction Date :	04/25/11	04/25/11
Analysis Date :	05/12/11	05/12/11
Instrument :	Linus	Linus
Run :	0511L017	0511L018
Initials :	LF	

Printed: 05/16/11 7:25:10 PM
APPL MSD SCII

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0511L017.D Vial: 17
Acq On : 12 May 11 2:00 Operator: LF
Sample : AY36312W25 MS-1 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 19:04 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed May 11 10:12:00 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	4491	2.50000	ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	2480	2.50000	ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	4431	2.50000	ppb		0.01
15) Chrysene-D12(IS)	12.97	240	6004	2.50000	ppb		0.01
21) Perylene-D12(IS)	14.58	264	5023	2.50000	ppb		0.01
System Monitoring Compounds							
2) Surrogate Recovery (NBZ)	5.38	82	618	1.71562	ppb		0.01
Spiked Amount 1.961			Recovery = 87.516%				
7) Surrogate Recovery (FBP)	7.42	172	2137	1.07378	ppb		0.00
Spiked Amount 1.961			Recovery = 54.774%				
17) Surrogate Recovery (TPH)	11.78	244	2752	1.02130	ppb		0.01
Spiked Amount 1.961			Recovery = 52.071%				
Target Compounds							Qvalue
3) Naphthalene	6.20	128	15218	5.41580	ppb		95
4) 2-Methylnaphthalene	6.99	142	4119	2.20320	ppb		98
5) 1-Methylnaphthalene	7.10	142	12269	6.87448	ppb		96
8) Acenaphthylene	8.01	152	6613	2.40627	ppb		97
9) Acenaphthene	8.22	154	3734	2.36348	ppb		97
10) Fluorene	8.82	166	4643	2.44314	ppb		97
12) Phenanthrene	9.93	178	6802	2.52848	ppb		98
13) Anthracene	9.99	178	6366	2.76415	ppb		98
14) Fluoranthene	11.30	202	10765	2.85872	ppb	#	87
16) Pyrene	11.56	202	10938	2.45826	ppb	#	79
18) Benz (a) anthracene	12.96	228	9038	2.31759	ppb		94
19) Chrysene	13.00	228	9094	2.59807	ppb	#	95
20) Indeno (1,2,3-cd) pyrene	16.05	276	8405	3.06494	ppb	#	95
22) Benzo (b) fluoranthene	14.14	252	8294	2.17613	ppb		98
23) Benzo (k) fluoranthene	14.16	252	8723	2.55355	ppb	#	93
24) Benzo (a) pyrene	14.51	252	7955	2.43203	ppb		100
25) Dibenz (a,h) anthracene	16.09	278	6770	2.40018	ppb	#	94
26) Benzo (g,h,i) perylene	16.47	276	7034	2.33306	ppb	#	87

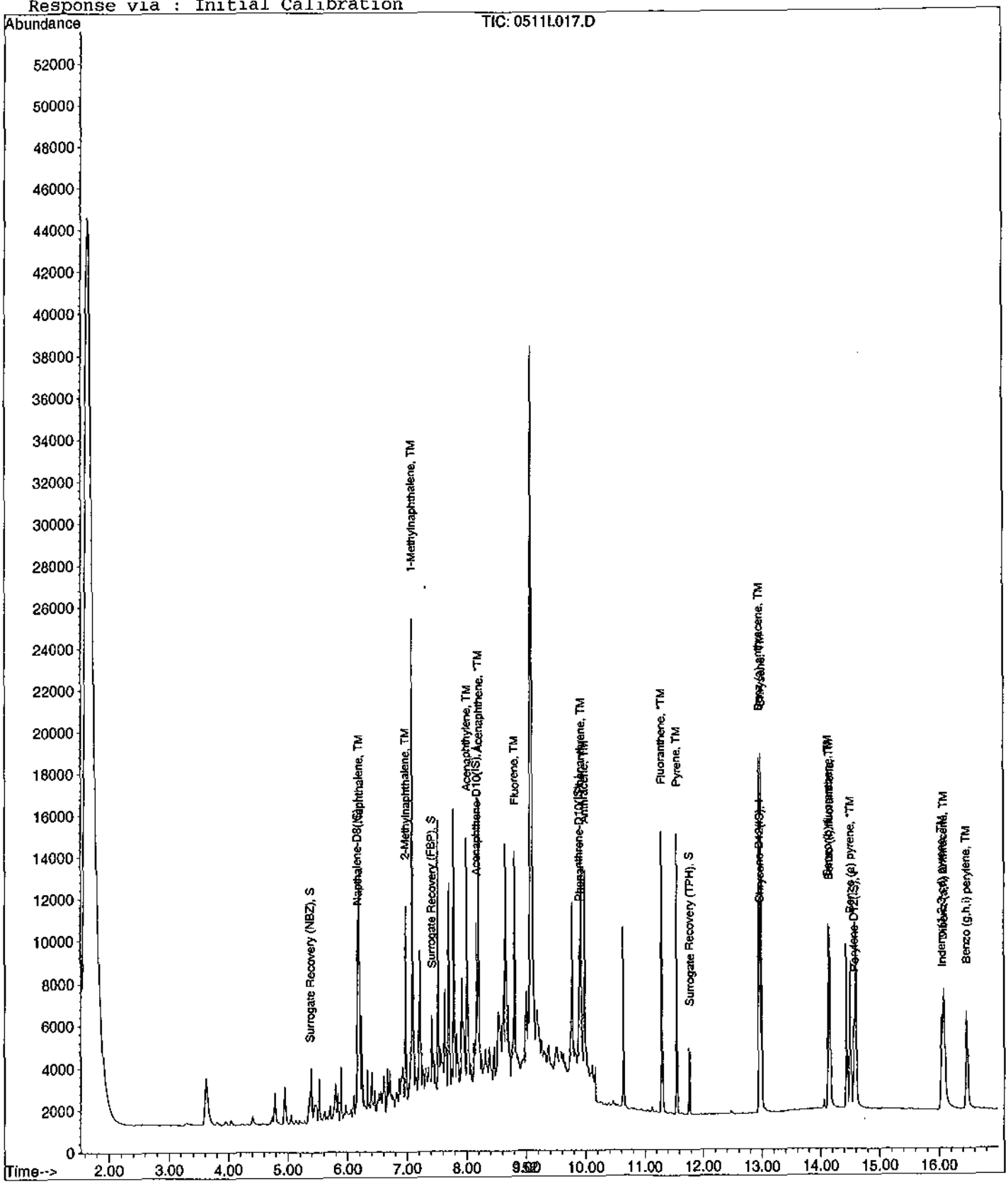
(#) = qualifier out of range (m) = manual integration
0511L017.D SIM2.M Mon May 16 19:08:18 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0511L017.D Vial: 17
Acq On : 12 May 11 2:00 Operator: LF
Sample : AY36312W25 MS-1 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 19:04 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0511L018.D Vial: 18
Acq On : 12 May 11 2:25 Operator: LF
Sample : AY36312W27 MSD-1 1/1020 Inst : Linus
Misc : Multiplr: 0.98

Quant Time: May 16 19:04 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Wed May 11 10:12:00 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

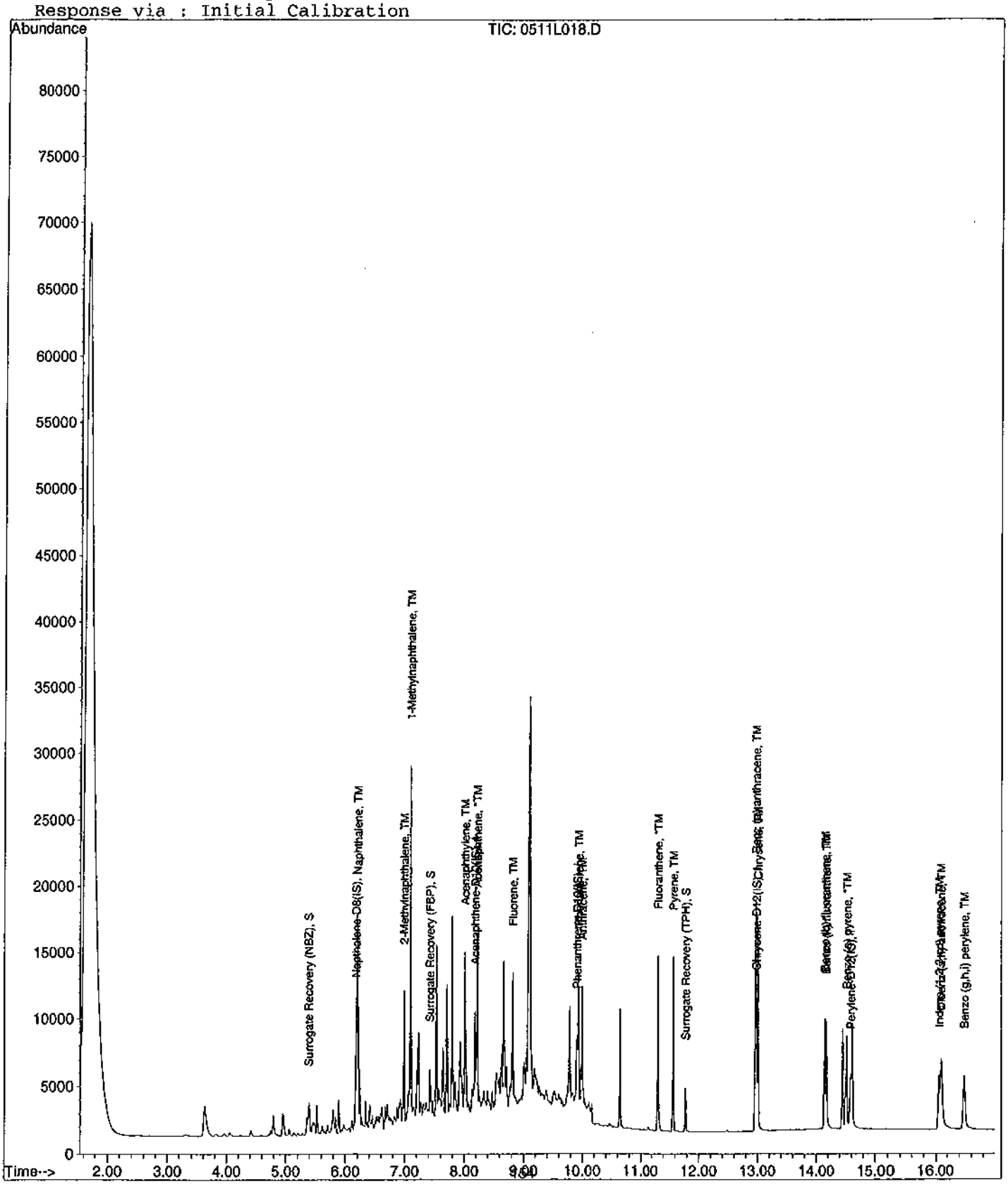
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	4562	2.50000	ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	2430	2.50000	ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	4286	2.50000	ppb		0.01
15) Chrysene-D12(IS)	12.97	240	5740	2.50000	ppb		0.01
21) Perylene-D12(IS)	14.58	264	4836	2.50000	ppb		0.01
System Monitoring Compounds							
2) Surrogate Recovery (NBZ)	5.38	82	478	1.44808	ppb		0.01
Spiked Amount 1.961			Recovery = 73.848%				
7) Surrogate Recovery (FBP)	7.42	172	2092	1.07280	ppb		0.00
Spiked Amount 1.961			Recovery = 54.723%				
17) Surrogate Recovery (TPH)	11.77	244	2701	1.04848	ppb		0.00
Spiked Amount 1.961			Recovery = 53.448%				
Target Compounds							Qvalue
3) Naphthalene	6.20	128	17149	6.00803	ppb		96
4) 2-Methylnaphthalene	6.99	142	4398	2.31582	ppb		97
5) 1-Methylnaphthalene	7.10	142	12702	7.00633	ppb		98
8) Acenaphthylene	8.01	152	6462	2.39971	ppb		99
9) Acenaphthene	8.22	154	3626	2.34234	ppb		97
10) Fluorene	8.82	166	4441	2.38493	ppb		96
12) Phenanthrene	9.93	178	6491	2.49450	ppb		99
13) Anthracene	9.99	178	6001	2.69382	ppb		98
14) Fluoranthene	11.30	202	10239	2.81102	ppb	#	85
16) Pyrene	11.56	202	10491	2.46624	ppb	#	81
18) Benz (a) anthracene	12.96	228	8645	2.31877	ppb		95
19) Chrysene	13.00	228	8597	2.56904	ppb	#	95
20) Indeno (1,2,3-cd) pyrene	16.05	276	8017	3.05792	ppb	#	95
22) Benzo (b) fluoranthene	14.14	252	7863	2.14282	ppb		98
23) Benzo (k) fluoranthene	14.16	252	8520	2.59057	ppb	#	93
24) Benzo (a) pyrene	14.51	252	7666	2.43430	ppb		99
25) Dibenz (a,h) anthracene	16.09	278	6379	2.34901	ppb	#	92
26) Benzo (g,h,i) perylene	16.48	276	6671	2.29822	ppb		97

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0511L018.D Vial: 18
Acq On : 12 May 11 2:25 Operator: LF
Sample : AY36312W27 MSD-1 1/1020 Inst : Linus
Misc : Multiplr: 0.98

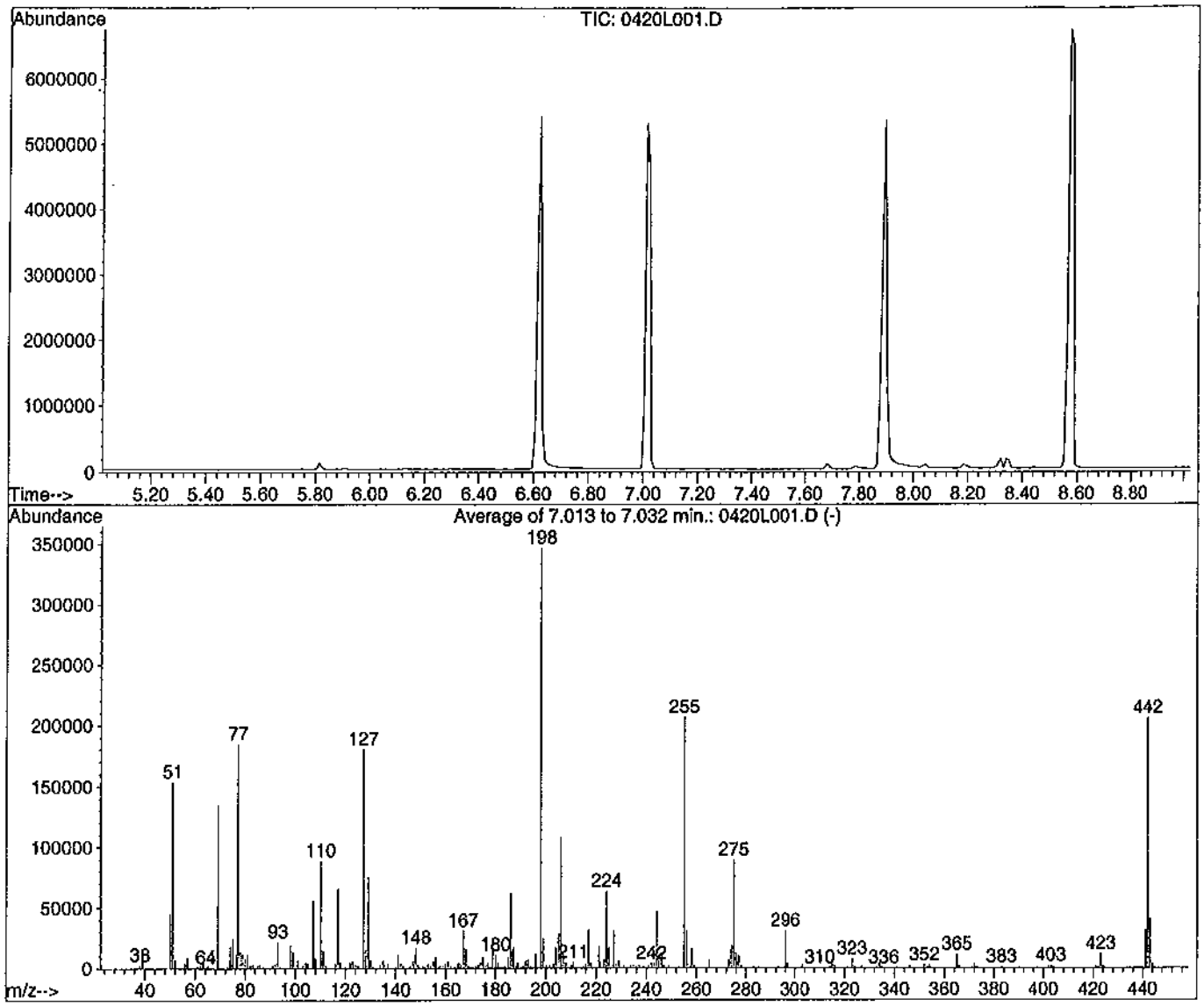
Quant Time: May 16 19:04 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L110420\0420L001.D Vial: 1
Acq On : 20 Apr 11 21:00 Operator: LF
Sample : SVTUNE 04-14-11 Inst : Linus
Misc : Multiplr: 1.00

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C



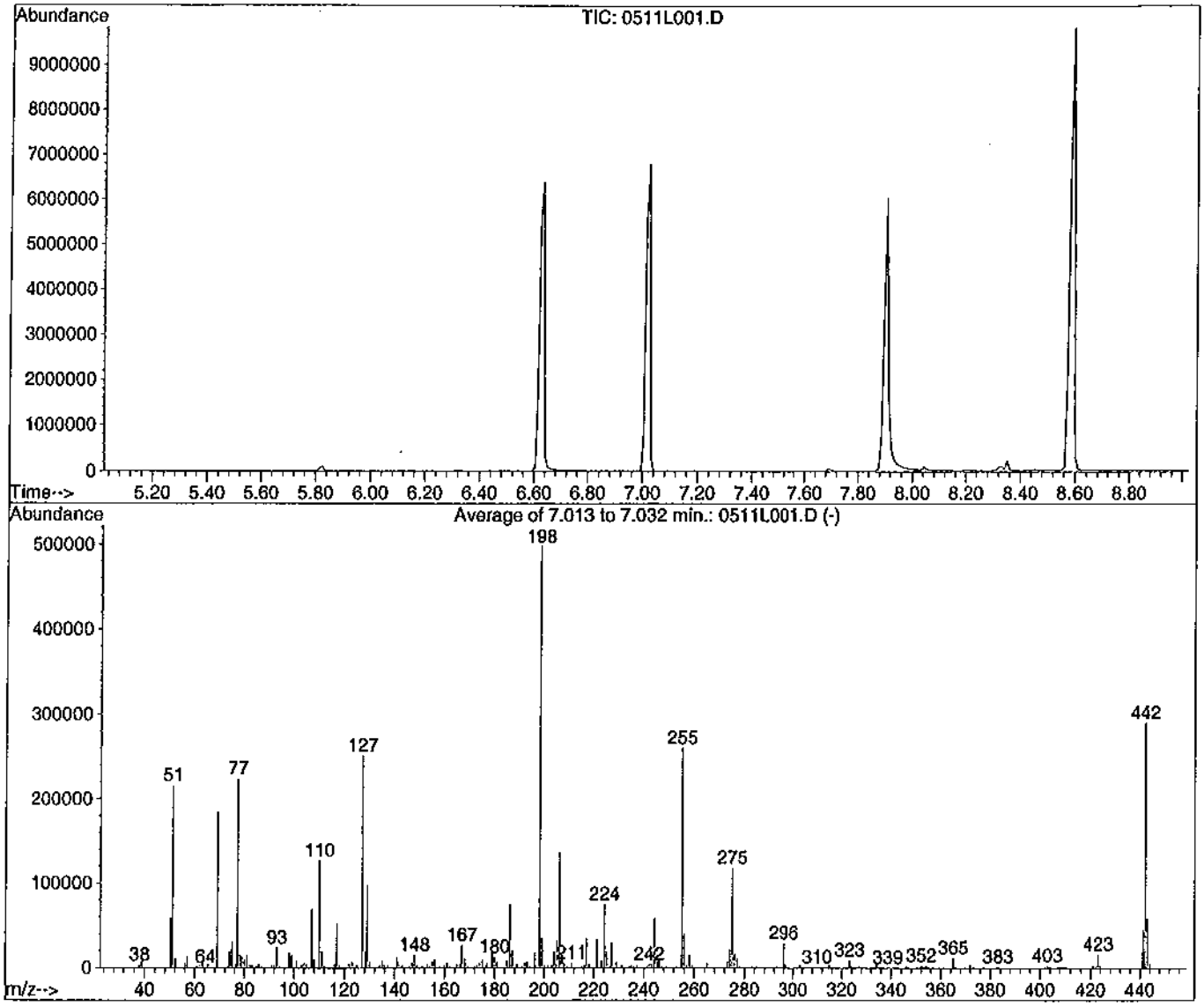
Spectrum Information: Average of 7.013 to 7.032 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.3	153818	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	936	PASS
127	198	40	60	52.0	180483	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	346958	PASS
199	198	5	9	7.2	24941	PASS
275	198	10	30	25.7	89331	PASS
365	198	1	100	3.2	11199	PASS
441	443	0.01	100	76.4	31355	PASS
442	198	40	150	59.4	206037	PASS
443	442	17	23	19.9	41055	PASS

Data File : M:\LINUS\DATA\L110420\0511L001.D
Acq On : 11 May 11 19:18
Sample : SVTUNE 04-14-11
Misc :

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

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C



Spectrum Information: Average of 7.013 to 7.032 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.4	216236	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	986	PASS
127	198	40	60	50.4	250957	PASS
197	198	0.00	1	0.5	2507	PASS
198	198	100	100	100.0	498066	PASS
199	198	5	9	7.2	35926	PASS
275	198	10	30	23.7	118139	PASS
365	198	1	100	2.3	11619	PASS
441	443	0.01	100	75.2	44525	PASS
442	198	40	150	58.3	290200	PASS
443	442	17	23	20.4	59213	PASS

LF 3/4/10

PREP DATE:	03-04-10													
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	146582-26312		03/04/10	03-04-11	0	0	0	0	5	5	25	50
	5.0ug/mL	5			03/04/10		0	0	10	20	0	0	0	0
	1.0ug/mL	1			03/04/10		10	20	0	0	0	0	0	0
	Surrogate Stock	VAR	149231-24856		03/04/10	03-04-11	0	0	0	0	5	5	25	50
EM Science	Methylene Chloride		47080				90	80	90	80	190	90	50	0
						Final Vol.	100	100	100	100	200	100	100	100

LF 3/4/10

PREP DATE:	03-04-10				
SIM 8270 Second Source (5µg/mL)					
Exp:	03-18-10				
			Conc.	Date	CODE:	
Supplier	ID #	Lot #	µg/mL	Code	Exp.Date	µL
	8270D PAH SIM (SS)	145112-24097	200	03/04/10	03-04-11	5
	MeCl2	Lot#47080				195
				Final Volume		200

LF 3/11/10

PREP DATE:	03-12-10															
8270T STANDARD CURVE																
Exp:	04-11-10					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		02/23/10	08-24-10	0	0	0	5	5	10	20	25	30	40	50
	5.0ug/mL			03/12/10		0	0	20	0	0	0	0	0	0	0	0
	1.0ug/mL			03/12/10		10	20	0	0	0	0	0	0	0	0	0
	Surrogate Stock	VAR	149231-24856	03/04/10	03-04-11	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

LF 3/11/10

PREP DATE:	03-12-10						
8270/625 Second Source (SS) 50ug/mL							
							50
		Conc.		Date	CODE:	
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
	8270C SS	200		02/23/10	08-24-10	25
EM Science	Methylene Chloride		47080			75
					Final Vol.	100

LF 4/6/10

PREP DATE:	04-06-10													
8270 STANDARD CURVE														
Exp:	04-13-10						5	10	20	40	50	60	80	100
		Conc.		Date		CODE:	I	J	K	L	M	N	O	P
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date		µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		03/23/10	08-24-10		5	5	10	20	25	30	40	50
	Surrogate Stock	VAR	149231-24856	03/04/10	03-04-11		5	5	10	20	25	30	40	50
EM Science	Methylene Chloride		47080				190	90	80	60	50	40	20	0
						Final Vol.	200	100	100	100	100	100	100	100

LF 4/6/10

PREP DATE:	04-06-10					
8270/625 Second Source (SS) 50ug/mL						
						50
		Conc.		Date	CODE:	
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
	8270C SS	200		02/23/10	08-24-10	25
EM Science	Methylene Chloride		47080			75
					Final Vol.	100

LF 4/12/10

GCM-160-1
Lot: CF-2895
Exp: 08/31/2011
Semi-Volatiles GC/MS Tuning Standard
4 analyte(s) at 1000 µg/mL in dichloromethane
1 mL
ULTRA
250 Smith St, N. Kingstown, RI 02852 USA

Semi-volatiles GC/MS Tuning Standard
Lot #: CF-2895 - 26132
Rec: 2/17/10 MFR exp. 08/31/11

exp 4/12/11

PREP DATE:	04-12-10					
SV Tune Mix 50ug/ml						
Exp:	04-12-11					
		Conc.		Date	CODE:	B
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
U. Scientific	GCM-150	1000	CF-2995-26132	04/12/10	08-31-11	1000
EM Science	MeCl2		47080			19000
					Final Vol	20000

LF 4/12/10

LF 4/12/10

Part #: 10001
Lot #: 032009
Laboratory Use Only - See MSDS
Exp: 032012 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in m
ABSOLUTE STANDA
CLP Semi-Volatiles Base/Neutrals Mix #1
Lot #: 032009 - 25510
Rec: 11/17/09 MFR exp. 03/20/12

exp 4/12/11

LF 4/12/10

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 ma
ABSOLUTE STANDA
CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 25516
Rec: 11/17/09 MFR exp. 07/31/12

exp 4/12/11

LF 4/12/10

Part #: 10004
Lot #: 060407
Laboratory Use Only - See MSDS
Exp: 060412 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components
2000 ug/mL in m
ABSOLUTE STANDA
CLP Semi-Volatiles Toxic Substances #1
Lot #: 060407 - 25521
Rec: 11/17/09 MFR exp. 06/04/12

exp 4/12/11

LF 4/12/10

Part #: 10005
Lot #: 121208
Laboratory Use Only - See MSDS
Exp: 121213 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
6 components
2000 ug/mL in met
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #2
Lot #: 121208 - 25526
Rec: 11/17/09 MFR exp. 12/12/13

exp 4/12/11

LF 4/12/10

Part #: 10006
Lot #: 102109
Laboratory Use Only - See MSDS
Exp: 102112 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in met
ABSOLUTE STANDAR
CLP Semi-Volatiles - Benzidines
Lot #: 102109 - 25531
Rec: 11/17/09 MFR exp. 10/21/12

exp 4/12/11

LF 4/12/10

Part #: 10007
Lot #: 101409
Laboratory Use Only - See MSDS
Exp: 101414 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components
2000 ug/mL in meti
ABSOLUTE STANDAR
CLP Semi-Volatiles - PAH Mix
Lot #: 101409 - 25536
Rec: 11/17/09 MFR exp. 10/14/14

exp 4/12/11

LF 4/12/10

Part #: 10018
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Pl
2000 ug/mL in meti
ABSOLUTE STANDAR
EPA Method 8270A - Analytes Mix #8
Lot #: 073109 - 25541
Rec: 11/17/09 MFR exp. 07/31/14

exp 4/12/11

LF 10/6/10

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

o2si smart chemistry

Cat. No: 110394-01
Lot No: 158122
TCL Hzd. Soln. 2
Lot #: 148122 - 26459
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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

o2si smart chemistry

Cat. No: 010337-01
Lot No: 158126
Atrazine
Lot #: 158135 - 26467
Rec: 4/19/10 MFR exp. 04/12/12

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

LF exp 10/6/11

LF 10/6/10

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

o2si smart chemistry

Cat. No: 110391-01
Lot No: 158119
8270BN Solution 14-4
Lot #: 158119 - 26453
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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

o2si smart chemistry

Cat. No: 110392-01
Lot No: 158120
8270BN Solution 14-3
Lot #: 158120 - 26455
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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

o2si smart chemistry

Cat. No: 110393-01
Lot No: 158121
8270B Acid Solution 4-6
Lot #: 158121 - 26457
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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

o2si smart chemistry

Cat. No: 116070-02
Lot No: 158123
PAH Solution
Lot #: 158123 - 26461
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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

o2si smart chemistry

Cat. No: 110396-01
Lot No: 158124
8270 Acid Solution 13-4
Lot #: 158124 - 26463
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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

o2si smart chemistry

Cat. No: 110395-01
Lot No: 158125
8270BN Solution 4-21
Lot #: 158125 - 26465
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

UF 10/6/10

02si smart solutions

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

Cat. No: 110397-01
Lot No: 158127

8270 11 Compound Mix
Lot #: 158127 - 26470
Rec: 4/19/10 MFR exp. 04/12/12

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

UF

UF 10/6/10

PREP DATE:	10-06-10					
8270C Second Source Stock Standard						
Exp:	10-06-11					
		Conc.		Date	CODE:	P
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
O2SI	110391-01	2000	158119-26453	10-6-10A	04-17-13	1000
O2SI	110392-01	2000	158120-26455	10-6-10B	04-17-13	1000
O2SI	110393-01	2000	158121-26457	10-6-10C	04-17-13	1000
O2SI	110394-01	2000	158122-26459	10-6-10D	04-17-13	1000
O2SI	116070-02	2000	158123-26461	10-6-10F	04-17-13	1000
O2SI	110395-01	2000	158125-26465	10-6-10G	04-17-13	1000
O2SI	110396-01	2000	158124-26463	10-6-10H	04-17-13	1000
O2SI	110397-01	2000	158127-26470	10-6-10I	04-12-12	1000
O2SI	010337-01	1000	158136-26467	10-6-10J	04-12-12	1000
EM Science	MeCl2		47080			1000
					Final Vol	10000

UF

UF 10/7/10

02si smart solutions

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

Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25767
Rec: 12/30/09 MFR exp. 07/29/11

Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

UF

exp 4/7/11

UF 10/7/10

02si smart solutions

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

Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25768
Rec: 12/30/09 MFR exp. 07/29/11

Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

UF

exp 4/7/11

UF 10/7/10

02si smart solutions

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

Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25769
Rec: 12/30/09 MFR exp. 07/29/11

Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

UF

exp 4/7/11

UF 10/7/10

02si smart solutions

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

Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25761
Rec: 12/30/09 MFR exp. 07/29/11

Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

UF

exp 4/7/11

UF 10/7/10

02si smart solutions

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

Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25762
Rec: 12/30/09 MFR exp. 07/29/11

Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

UF

exp 4/7/11

VF 1/17/11

PREP DATE:	01-17-11					
8270C Stock/Spike Standard						
Exp:	05-29-11					
		Conc.		Date	CODE:	µL
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	
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

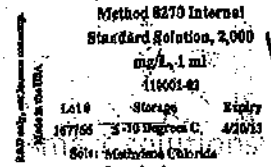
VF 1/25/11

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 1/20/11



VF

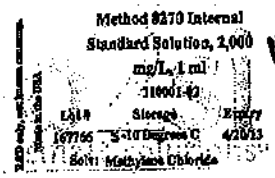
opp 1/25/12

8270 Internal Standard

Lot #: 167766 - 28146

Rec: 1/20/11 MFR exp. 04/20/13

VF 1/25/11



VF

opp 1/25/12

8270 Internal Standard

Lot #: 167766 - 28147

VF 3/23/11

Part #: 10001
Lot #: 032009
Laboratory Use Only - See MSDS
Exp: 032012 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in meth
ABSOLUTE STANDARI
CLP Semi-Volatiles Base/Neutrals Mix #1
Lot #: 032009 - 28089
Rec: 1/5/11 MFR exp. 03/20/12

VF

exp 5/29/14

VF 3/23/11

Part #: 10001
Lot #: 032009
Laboratory Use Only - See MSDS
Exp: 032012 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in mel
ABSOLUTE STANDAI
CLP Semi-Volatiles Base/Neutrals Mix #1
Lot #: 032009 - 28090
Rec: 1/5/11 MFR exp. 03/20/12

VF

exp 5/29/14

VF 3/23/11

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 meth
ABSOLUTE STANDAR
CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 27971
Rec: 12/16/10 MFR exp. 07/31/12

VF

exp 5/29/14

VF 3/23/11

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 meti
ABSOLUTE STANDAF
CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 27972
Rec: 12/16/10 MFR exp. 07/31/12

VF

exp 5/29/14

VF 3/23/11

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 meti
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 27976
Rec: 12/16/10 MFR exp. 10/15/14

VF

exp 5/29/14

VF 3/23/11

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 meti
ABSOLUTE STANDAF
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 27977
Rec: 12/16/10 MFR exp. 10/15/14

VF

exp 5/29/14

VF 3/23/11

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 meti
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #2
Lot #: 061209 - 27981
Rec: 12/16/10 MFR exp. 06/12/14

VF

exp 5/29/14

VF 3/23/11

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 meti
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #2
Lot #: 061209 - 27982
Rec: 12/16/10 MFR exp. 06/12/14

VF

exp 5/29/14

VF 3/23/14

Part #: 10006
Lot #: 120810
Laboratory Use Only - See MSDS
Exp: 120813 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in meth
ABSOLUTE STANDAR
CLP Semi-Volatiles - Benzidines
Lot #: 120810 - 27986
Rec: 12/16/10 MFR exp. 12/08/13
VF
exp 5/29/14

VF 3/23/14

Part #: 10006
Lot #: 120810
Laboratory Use Only - See MSDS
Exp: 120813 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in m
ABSOLUTE STANDA
CLP Semi-Volatiles - Benzidines
Lot #: 120810 - 27987
Rec: 12/16/10 MFR exp. 12/08/13
VF
exp 5/29/14

VF 3/23/14

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 meth
ABSOLUTE STANDARI
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 28015
Rec: 12/16/10 MFR exp. 10/09/14
VF
exp 5/29/14

VF 3/23/14

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 meti
ABSOLUTE STANDAI
CLPSemi-Volatiles - PAH Mix
Lot #: 100909 - 28014
Rec: 12/16/10 MFR exp. 10/09/14
VF
exp 5/29/14

VF 3/23/14

Part #: 10018
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Ph
2000 ug/mL in meti
ABSOLUTE STANDAR
EPA Method 8270A - Analytes Mix #8
Lot #: 073109 - 27991
Rec: 12/16/10 MFR exp. 07/31/14
VF
exp 5/29/14

VF 3/23/14

Part #: 10018
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - F
2000 ug/mL in me
ABSOLUTE STANDA
EPA Method 8270A - Analytes Mix #8
Lot #: 073109 - 27992
Rec: 12/16/10 MFR exp. 07/31/14
VF
exp 5/29/14

VF 3/23/14

Part #: 70023
Lot #: 080310
Laboratory Use Only - See MSDS
Exp: 080315 Storage 4 °C
Atrazine
1000 ug/mL in acetor
ABSOLUTE STANDARD
Atrazine
Lot #: 080310 - 28008
Rec: 12/16/10 MFR exp. 08/03/15
VF
exp 5/29/14

VF 3/23/14

Part #: 70023
Lot #: 080310
Laboratory Use Only - See MSDS
Exp: 080315 Storage 4 °C
Atrazine
1000 ug/mL in acet
ABSOLUTE STANDAR
Atrazine
Lot #: 080310 - 28007
Rec: 12/16/10 MFR exp. 08/03/15
VF
exp 5/29/14

VF 3/23/11

Part #: 94552 Laboratory Use Only-See MSDS
Lot #: 052908 Exp: 052911 1 mL
Semi-Volatile Standard
11 components
Varied ug/mL In
ABSOLUTE STANDA

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

VF exp 5/29/11

VF 3/23/11

Part #: 94552 Laboratory Use Only-See MSDS
Lot #: 052908 Exp: 052911 1 mL
Semi-Volatile Standard
11 components
Varied ug/mL In
ABSOLUTE STANDAI

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

exp 5/29/11

VF 3/23/11

Part #: 82705 Laboratory Use Only - See MSDS
Lot #: 121010 Exp: 121013 Storage 4 °C
EPA Method 8270A
4 components
2000 ug/mL in ace
ABSOLUTE STANDARDS, INC.

EPA Method 8270A-Mix#11
Lot #: 121010 - 27996
Rec: 12/16/10 MFR exp. 12/10/13

VF exp 5/29/11

VF 3/23/11

Part #: 82705 Laboratory Use Only - See MSDS
Lot #: 121010 Exp: 121013 Storage 4 °C
EPA Method 8270A - Mix #11
4 components
2000 ug/mL in ace
ABSOLUTE STANDAF

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

VF exp 5/29/11

VF 3/23/11

PREP DATE:	03-23-11					
8270C Stock/Spike Standard						
Exp:	05-29-11					
		Conc.		Date	CODE:	F
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

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	110425A	Extraction Method	SEP004S	Units	mL

Spiked ID 1	SIM Spike 166254-27834		Surrogate ID 1	8270 SIM Surrogate 164394-27499	
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:	05/04/11 0:00	

pH1	2	04/25/11 11:30:00 AM	W Bath Temp	80 °C
pH2	14	04/25/11 12:35:00 PM		
pH3				

Spiked By: DL **Date** 04/25/11 **Witnessed By:** CC **Date** 04/25/11

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	110425A Blk				0.025	1	1000	1	2/14	04/25/11 11:30	
2	110425A LCS-1		0.025	1	0.025	1	1000	1	2/14	04/25/11 11:30	
3	AY36023	AY36023W18			0.025	1	1050	1	2/14	04/25/11 11:30	64447 2-WEEK RUSH -- Amber Liter
4	AY36033	AY36033W09			0.025	1	1050	1	2/14	04/25/11 11:30	64447 2-WEEK RUSH -- Amber Liter
5	AY36034	AY36034W10			0.025	1	1030	1	2/14	04/25/11 11:30	64447 2-WEEK RUSH -- Amber Liter
6	AY36036	AY36036W07			0.025	1	900	1	2/14	04/25/11 11:30	64447 2-WEEK RUSH -- Amber Liter
7	AY36038	AY36038W13			0.025	1	1040	1	2/14	04/25/11 11:30	64447 2-WEEK RUSH -- Amber Liter
8	AY36042	AY36042W12			0.025	1	1050	1	2/14	04/25/11 11:30	64447 2-WEEK RUSH -- Amber Liter
9	AY36209 MS-1	AY36209W30	0.025	1	0.025	1	1050	1	2/14	04/25/11 11:30	64472 2-WEEK RUSH -- Amber Liter
10	AY36209 MSD-1	AY36209W37	0.025	1	0.025	1	1050	1	2/14	04/25/11 11:30	64472 2-WEEK RUSH -- Amber Liter
11	AY36209	AY36209W38			0.025	1	1000	1	2/14	04/25/11 11:30	64472 2-WEEK RUSH -- Amber Liter
12	AY36212	AY36212W18			0.025	1	1030	1	2/14	04/25/11 11:30	64472 2-WEEK RUSH -- Amber Liter
13	AY36213	AY36213W16			0.025	1	1000	1	2/14	04/25/11 11:30	64472 2-WEEK RUSH -- Amber Liter

Solvent and Lot#	
MC	VWR 112910A
Na2SO4	0440C237
10N NaOH	04/01/11
1+1 Acid	03/14/11
A. Na2SO4	03/14/11

Extraction COC Transfer	
Extraction lab employee Initials	CC
GC analyst's initials	
Date	5/11/11
Time	1700
Refrigerator	Hood

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

Modified	04/25/11 11:02:31 AM

Reviewed By: CC **Date** 04/25/11

Organic Extraction Worksheet

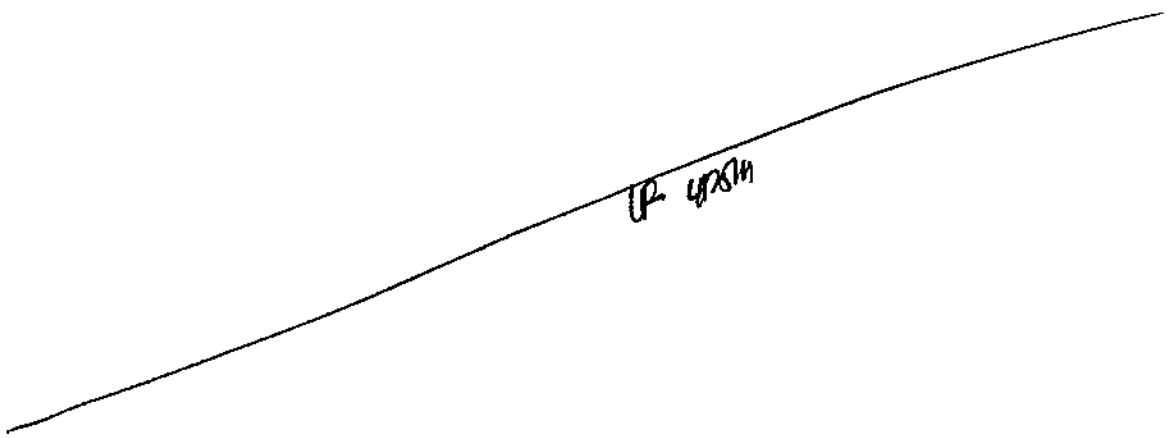
Method	SIM Separatory Funnel Extra 3510C	Extraction Set	110425A	Extraction Method	SBP004S	Units	mL

Spiked ID 1	SIM Spike 166254-27834		Surrogate ID 1	8270 SIM Surrogate 164394-27499	
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:	05/04/11 0:00	

pH1	2	04/25/11 11:30:00 AM	W Bath Temp	80 °C
pH2	14	04/25/11 12:35:00 PM		
pH3				

Spiked By: DL **Date** 04/25/11 **Witnessed By:** CC **Date** 04/25/11

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
14	AY36311	AY36311W05			0.025	1	1030	1	2/14	04/25/11 11:30	64475 2-WEEK RUSH -- Amber Liter
15	AY36312 MS-1	AY36312W25	0.025	1	0.025	1	1020	1	2/14	04/25/11 11:30	64475 2-WEEK RUSH -- Amber Liter
16	AY36312 MSD-1	AY36312W27	0.025	1	0.025	1	1020	1	2/14	04/25/11 11:30	64475 2-WEEK RUSH -- Amber Liter
17	AY36312	AY36312W26			0.025	1	1030	1	2/14	04/25/11 11:30	64475 2-WEEK RUSH -- Amber Liter
18	AY36313	AY36313W05			0.025	1	1020	1	2/14	04/25/11 11:30	64475 2-WEEK RUSH -- Amber Liter
19	AY36316	AY36316W05			0.025	1	1020	1	2/14	04/25/11 11:30	64475 2-WEEK RUSH -- Amber Liter
20	AY36317	AY36317W06			0.025	1	1020	1	2/14	04/25/11 11:30	64475 2-WEEK RUSH -- Amber Liter



Solvent and Lot#	
MC	VWR 112910A
Na2SO4	0440C237
10N NaOH	04/01/11
1+1 Acid	03/14/11
A. Na2SO4	03/14/11

Extraction COC Transfer	
Extraction lab employee Initials	CC
GC analyst's initials	
Date	
Time	
Refrigerator	

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

Modified	04/25/11 11:02:31 AM

Reviewed By: CC **Date** 04/25/11

Injection Log

Directory: M:\LINUS\DATA\L110420\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0420L001.D	1	SVTUNE 04-14-11		20 Apr 11 21:00
2	2	0420L002.D	1	0.1ug/ml PAH 04-20-11		20 Apr 11 21:19
3	3	0420L003.D	1	0.2ug/ml PAH		20 Apr 11 21:44
4	4	0420L004.D	1	0.5ug/ml PAH		20 Apr 11 22:10
5	5	0420L005.D	1	1.0ug/ml PAH		20 Apr 11 22:35
6	6	0420L006.D	1	5.0ug/ml PAH		20 Apr 11 23:01
7	7	0420L007.D	1	10ug/ml PAH		20 Apr 11 23:27
8	8	0420L008.D	1	50ug/ml PAH		20 Apr 11 23:52
9	9	0420L009.D	1	100ug/ml PAH		21 Apr 11 00:18
10	10	0420L010.D	1	5.0ug/ml PAH SS 04-11-11		21 Apr 11 00:43
11	1	0511L001.D	1	SVTUNE 04-14-11		11 May 11 19:18
12	2	0511L002.D	1	5.0ug/ml PAH 04-20-11		11 May 11 19:37
13	3	0511L003.D	1	110425A BLK 1/1000		11 May 11 20:03
14	4	0511L004.D	1	110425A LCS-1 1/1000		11 May 11 20:28
15	16	0511L016.D	0.97087	AY36311W05 1/1030		12 May 11 1:35
16	17	0511L017.D	0.98039	AY36312W25 MS-1 1/1020		12 May 11 2:00
17	18	0511L018.D	0.98039	AY36312W27 MSD-1 1/1020		12 May 11 2:25
18	19	0511L019.D	0.97087	AY36312W26 1/1030		12 May 11 2:51
19	20	0511L020.D	0.98039	AY36313W05 1/1020		12 May 11 3:16
20	21	0511L021.D	0.98039	AY36316W05 1/1020		12 May 11 3:41
21	22	0511L022.D	0.98039	AY36317W06 1/1020		12 May 11 4:07

EPA METHOD 8260B
Volatile Organic Compounds

EPA METHOD 8260B
Volatile Organic Compounds
QC Summary

Method Blank

EPA 8260B VOCs + Gas Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110422W-36312 - 155156**
Batch ID: #86RHB-110422AC

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	04/23/11	04/23/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/23/11	04/23/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/23/11	04/23/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	04/23/11	04/23/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/23/11	04/23/11
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/23/11	04/23/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/23/11	04/23/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/23/11	04/23/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/23/11	04/23/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/23/11	04/23/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/23/11	04/23/11
BLANK	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/23/11	04/23/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/23/11	04/23/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C30
Instrument: Chico
Sequence: C110422
Initials: LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 8:33:45 PM

Method Blank

EPA 8260B VOCs + Gas Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110422W-36312 - 155156**
Batch ID: #86RHB-110422AC

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	04/23/11	04/23/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	04/23/11	04/23/11
BLANK	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/23/11	04/23/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	SURROGATE: 1,2-DICHLOROET	94.2	70-120			%	04/23/11	04/23/11
BLANK	SURROGATE: 4-BROMOFLUORO	96.3	75-120			%	04/23/11	04/23/11
BLANK	SURROGATE: DIBROMOFLUOR	91.6	85-115			%	04/23/11	04/23/11
BLANK	SURROGATE: TOLUENE-D8 (S)	89.6	85-120			%	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C30
Instrument: Chico
Sequence: C110422
Initials: LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 8:33:45 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64475

Case No: 64475 Date Analyzed: 04/23/11

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)	SURROGATE: 4-BROMOFLUOROBENZENE (S)
110422AC-LCS	Lab Control Spike	97.7	98.0
110422AC-BLK	Blank	94.2	96.3
AY36318	ES026	97.4	94.7
AY36319	ES027	100	98.0
AY36311	ES019	101	100.0
AY36314	ES022	99.3	94.9
AY36315	ES023	101	99.0
AY36312	ES020	99.0	98.1
AY36313	ES021	90.5	92.8
AY36316	ES024	84.4	89.1
AY36317	ES025	83.9	89.2
AY36312-MS	Matrix Spike	104	99.1
AY36312-MSD	Matrix SpikeD	86.9	93.8

Comments: Batch: #86RHB-110422AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64475

Case No: 64475 Date Analyzed: 04/23/11

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)	SURROGATE: TOLUENE-D8 (S)
110422AC-LCS	Lab Control Spike	95.2	90.0
110422AC-BLK	Blank	91.6	89.6
AY36318	ES026	95.6	89.9
AY36319	ES027	93.4	91.8
AY36311	ES019	95.0	91.4
AY36314	ES022	95.0	90.3
AY36315	ES023	98.2	88.4
AY36312	ES020	94.8	91.7
AY36313	ES021	90.0	90.2
AY36316	ES024	88.4	90.7
AY36317	ES025	87.8	89.3
AY36312-MS	Matrix Spike	98.6	85.8
AY36312-MSD	Matrix SpikeD	91.4	90.4

Comments: Batch: #86RHB-110422AC

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **110423W-36312 LCS - 155156**
Batch ID: #86RHB-110422AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	9.83	98.3	80-130
1,1,1-TRICHLOROETHANE	10.00	10.5	105	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	8.23	82.3	65-130
1,1,2-TRICHLOROETHANE	10.00	10.2	102	75-125
1,1-DICHLOROETHANE	10.00	10.0	100	70-135
1,1-DICHLOROETHENE	10.00	10.5	105	70-130
1,2,3-TRICHLOROPROPANE	10.00	10.2	102	75-125
1,2,4-TRICHLOROBENZENE	10.00	8.67	86.7	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.47	84.7	50-130
1,2-DIBROMOETHANE	10.00	9.14	91.4	70-130
1,2-DICHLOROBENZENE	10.00	9.46	94.6	70-120
1,2-DICHLOROETHANE	10.00	10.1	101	70-130
1,2-DICHLOROPROPANE	10.00	9.84	98.4	75-125
1,3-DICHLOROBENZENE	10.00	9.43	94.3	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	18.4	92.0	70-130
1,4-DICHLOROBENZENE	10.00	9.58	95.8	75-125
2-BUTANONE	10.00	8.81	88.1	30-150
4-METHYL-2-PENTANONE	10.00	9.69	96.9	60-135
ACETONE	10.00	8.47	84.7	40-140
BENZENE	10.00	10.1	101	80-120
BROMODICHLOROMETHANE	10.00	9.39	93.9	75-120
BROMOFORM	10.00	9.72	97.2	70-130
BROMOMETHANE	10.00	9.35	93.5	30-145
CARBON TETRACHLORIDE	10.00	10.2	102	65-140
CHLOROBENZENE	10.00	10.1	101	80-120
CHLORODIBROMOMETHANE	10.00	9.50	95.0	60-135

Comments: _____

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	04/23/11
Analysis Date :	04/23/11
Instrument :	Chico
Run :	0422C25
Initials :	LF

Printed: 05/16/11 8:33:52 PM

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **110423W-36312 LCS - 155156**
Batch ID: #86RHB-110422AC

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	10.8	108	60-135
CHLOROFORM	10.00	10.1	101	65-135
CHLOROMETHANE	10.00	11.3	113	40-125
CIS-1,2-DICHLOROETHENE	10.00	9.66	96.6	70-125
ETHYLBENZENE	10.00	10.3	103	75-125
GASOLINE	300	279	93.0	75-125
HEXACHLOROBUTADIENE	10.00	9.14	91.4	50-140
METHYL TERT-BUTYL ETHER	10.00	9.44	94.4	65-125
METHYLENE CHLORIDE	10.00	10.2	102	55-140
STYRENE	10.00	9.62	96.2	65-135
TETRACHLOROETHENE	10.00	10.1	101	45-150
TOLUENE	10.00	10.7	107	75-120
TRANS-1,2-DICHLOROETHENE	10.00	10.5	105	60-140
TRICHLOROETHENE	10.00	11.4	114	70-125
VINYL CHLORIDE	10.00	11.7	117	50-145
XYLENES (TOTAL)	30.0	30.9	103	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	22.3	21.8	97.7	70-120
SURROGATE: 4-BROMOFLUOROBENZE	26.3	25.8	98.0	75-120
SURROGATE: DIBROMOFLUOROMETH	23.5	22.4	95.2	85-115
SURROGATE: TOLUENE-D8 (S)	26.0	23.4	90.0	85-120

Comments:

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	04/23/11
Analysis Date :	04/23/11
Instrument :	Chico
Run :	0422C25
Initials :	LF

Printed: 05/16/11 8:33:52 PM

APPL Standard LCS

Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36312 MS - 155156**
Batch ID: #86RHB-110422AC
Sample ID: AY36312
Client ID: ES020

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,1,1,2-TETRACHLOROETHANE	10.00	ND	9.67	9.49	96.7	94.9	80-130	1.9	30
1,1,1-TRICHLOROETHANE	10.00	ND	10.3	9.15	103	91.5	65-130	11.8	30
1,1,2,2-TETRACHLOROETHANE	10.00	ND	9.19	9.89	91.9	98.9	65-130	7.3	30
1,1,2-TRICHLOROETHANE	10.00	ND	10.5	10.3	105	103	75-125	1.9	30
1,1-DICHLOROETHANE	10.00	ND	10.4	9.84	104	98.4	70-135	5.5	30
1,1-DICHLOROETHENE	10.00	ND	10.7	10.3	107	103	70-130	3.8	30
1,2,3-TRICHLOROPROPANE	10.00	ND	9.91	10.3	99.1	103	75-125	3.9	30
1,2,4-TRICHLOROBENZENE	10.00	ND	8.84	8.02	88.4	80.2	65-135	9.7	30
1,2-DIBROMO-3-CHLOROPROPANE	10.00	ND	8.39	9.11	83.9	91.1	50-130	8.2	30
1,2-DIBROMOETHANE	10.00	ND	9.40	9.72	94.0	97.2	70-130	3.3	30
1,2-DICHLOROBENZENE	10.00	ND	8.73	9.10	87.3	91.0	70-120	4.2	30
1,2-DICHLOROETHANE	10.00	ND	10.1	8.66	101	86.6	70-130	15.4	30
1,2-DICHLOROPROPANE	10.00	ND	9.51	10.2	95.1	102	75-125	7.0	30
1,3-DICHLOROBENZENE	10.00	ND	8.64	9.07	86.4	90.7	75-125	4.9	30
1,3-DICHLOROPROPENE, TOTAL	20.0	ND	19.6	19.1	98.0	95.5	70-130	2.6	30
1,4-DICHLOROBENZENE	10.00	ND	9.02	9.50	90.2	95.0	75-125	5.2	30
2-BUTANONE	10.00	ND	9.91	9.43	99.1	94.3	30-150	5.0	30
4-METHYL-2-PENTANONE	10.00	ND	8.11	8.50	81.1	85.0	60-135	4.7	30
ACETONE	10.00	ND	8.43	8.46	84.3	84.6	40-140	0.36	30
BENZENE	10.00	ND	10.0	10.0	100	100	80-120	0.0	30
BROMODICHLOROMETHANE	10.00	ND	10.1	9.05	101	90.5	75-120	11.0	30
BROMOFORM	10.00	ND	9.50	9.32	95.0	93.2	70-130	1.9	30
BROMOMETHANE	10.00	ND	10.2	9.22	102	92.2	30-145	10.1	30
CARBON TETRACHLORIDE	10.00	ND	10.4	9.50	104	95.0	65-140	9.0	30
CHLOROBENZENE	10.00	ND	9.22	9.73	92.2	97.3	80-120	5.4	30

Comments: _____

Primary	SPK	DUP
Quant Method :	C86DODW.M	C86DODW.M
Extraction Date :	04/25/11	04/25/11
Analysis Date :	04/25/11	04/25/11
Instrument :	Chico	Chico
Run :	0425C07	0425C08
Initials :	LF	

Printed: 05/16/11 8:33:54 PM
APPL MSD SCII

Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36312 MS - 155156**
Batch ID: #86RHB-110422AC
Sample ID: AY36312
Client ID: ES020

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
CHLORODIBROMOMETHANE	10.00	ND	9.75	9.41	97.5	94.1	60-135	3.5	30
CHLOROETHANE	10.00	ND	9.90	10.0	99.0	100	60-135	1.0	30
CHLOROFORM	10.00	ND	10.3	9.72	103	97.2	65-135	5.8	30
CHLOROMETHANE	10.00	ND	9.30	8.96	93.0	89.6	40-125	3.7	30
CIS-1,2-DICHLOROETHENE	10.00	ND	9.88	9.79	98.8	97.9	70-125	0.92	30
ETHYLBENZENE	10.00	ND	9.48	9.86	94.8	98.6	75-125	3.9	30
GASOLINE	300	24	344	340	107	105	75-125	1.2	30
HEXACHLOROBUTADIENE	10.00	ND	8.60	7.52	86.0	75.2	50-140	13.4	30
METHYL TERT-BUTYL ETHER	10.00	ND	10.0	9.70	100	97.0	65-125	3.0	30
METHYLENE CHLORIDE	10.00	ND	10.8	10.6	108	106	55-140	1.9	30
STYRENE	10.00	ND	9.58	9.34	95.8	93.4	65-135	2.5	30
TETRACHLOROETHENE	10.00	ND	9.20	10.0	92.0	100	45-150	8.3	30
TOLUENE	10.00	ND	9.78	9.91	97.8	99.1	75-120	1.3	30
TRANS-1,2-DICHLOROETHENE	10.00	ND	10.4	10.3	104	103	60-140	0.97	30
TRICHLOROETHENE	10.00	ND	9.48	9.31	94.8	93.1	70-125	1.8	30
VINYL CHLORIDE	10.00	ND	11.7	10.2	117	102	50-145	13.7	30
XYLENES (TOTAL)	30.0	0.41	28.9	30.5	95.0	100	80-120	5.4	30
SURROGATE: 1,2-DICHLOROETHANE-D	22.3	NA	23.3	19.4	104	86.9	70-120		
SURROGATE: 4-BROMOFLUOROBENZE	26.3	NA	26.1	24.7	99.1	93.8	75-120		
SURROGATE: DIBROMOFLUOROMETH	23.5	NA	23.2	21.5	98.6	91.4	85-115		
SURROGATE: TOLUENE-D8 (S)	26.0	NA	22.3	23.5	85.8	90.4	85-120		

Comments:

Primary	SPK	DUP
Quant Method :	C86DODW.M	C86DODW.M
Extraction Date :	04/25/11	04/25/11
Analysis Date :	04/25/11	04/25/11
Instrument :	Chico	Chico
Run :	0425C07	0425C08
Initials :	LF	

Printed: 05/16/11 8:33:54 PM
APPL MSD SCII

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 64475

Case No: 64475 Date Analyzed: 04/23/11

Matrix: WATER Instrument: Chico

Blank ID: 110422AC-BLK Time Analyzed: 1058

APPL ID.	Client Sample No.	File ID.	Date Analyzed
110422AC-LCS	Lab Control Spike	0422C25	04/23/11 0728
110422AC-BLK	Blank	0422C30	04/23/11 1058
AY36318	ES026	0422C31	04/23/11 1133
AY36319	ES027	0422C32	04/23/11 1209
AY36311	ES019	0422C33	04/23/11 1244
AY36314	ES022	0422C34	04/23/11 1319
AY36315	ES023	0422C35	04/23/11 1354
AY36312	ES020	0422C36	04/23/11 1429
AY36313	ES021	0422C37	04/23/11 1504
AY36316	ES024	0422C38	04/23/11 1539
AY36317	ES025	0422C39	04/23/11 1614
110422AC-MS	Matrix Spike	0425C07	04/25/11 1448
110422AC-MSD	Matrix SpikeD	0425C08	04/25/11 1523

Comments: Batch: #86RHB-110422AC

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 64475
Matrix: Water
ID: 20ug/ml BFB STD 04-15-11A

SDG No: 64475
Date Analyzed: 04/23/11
Instrument: Chico
Time Analyzed: 6:18

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Lab Control Spike	110422A LCS-1WC (SS)	0422C25W.D	04/23/11 7:28
2	Blank	110422A BLK-1WC	0422C30W.D	04/23/11 10:58
3	ES026	AY36318W01	0422C31W.D	04/23/11 11:33
4	ES027	AY36319W01	0422C32W.D	04/23/11 12:09
5	ES019	AY36311W01	0422C33W.D	04/23/11 12:44
6	ES022	AY36314W01	0422C34W.D	04/23/11 13:19
7	ES023	AY36315W01	0422C35W.D	04/23/11 13:54
8	ES020	AY36312W01	0422C36W.D	04/23/11 14:29
9	ES021	AY36313W01	0422C37W.D	04/23/11 15:04
10	ES024	AY36316W01	0422C38W.D	04/23/11 15:39
11	ES025	AY36317W01	0422C39W.D	04/23/11 16:14
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	15 - 40% of mass 95	15.5
75	30 - 60% of mass 95	41.1
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.6
173	0 - 2% of mass 174	0.1
174	50 - 100% of mass 95	97.1
175	5 - 9% of mass 174	7.9
176	95 - 101% of mass 174	98.6
177	5 - 9% of mass 176	6.7

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 0425C00T.D
Matrix: Water
ID: 20ug/ml BFB STD 04-15-11A

SDG No: Chico
Date Analyzed: 04/25/11
Instrument: Chico
Time Analyzed: 10:08

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Matrix Spike	AY36312W234 MS-1WC	0425C07W.D	04/25/11 14:48
2	Matrix Spike Dup	AY36312W234 MSD-1WC	0425C08W.D	04/25/11 15:23
3	Matrix Spike	AY36312W567MS-1WC	0425C09W.D	04/25/11 15:58
4	Matrix Spike Dup	AY36312W567MSD-1WC	0425C10W.D	04/25/11 16:34
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	15.6
75	30 - 60% of mass 95	40.9
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.5
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	98.1
175	5 - 9% of mass 174	7.2
176	95 - 101% of mass 174	97.6
177	5 - 9% of mass 176	6.4

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: SDG No.: 64475

Lab File ID (Standard): 0422C09W.D Date Analyzed: 04/22/11

Instrument ID: Chico Time Analyzed: 20:57

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	440128	12.90	324224	18.10	180544	22.30
	UPPER LIMIT	880256	13.40	648448	18.60	361088	22.80
	LOWER LIMIT	220064	12.40	162112	17.60	90272	21.80
	SAMPLE NO.						
01	110422A LCS-1WC (SS	455808	12.91	350144	18.09	195456	22.29
02	110422A BLK-1WC	448832	12.91	329216	18.10	182080	22.29
03	AY36318W01	411648	12.90	318464	18.10	169984	22.29
04	AY36319W01	428096	12.91	307008	18.10	159296	22.30
05	AY36311W01	403072	12.91	302976	18.10	171264	22.30
06	AY36314W01	397888	12.91	297856	18.10	161088	22.30
07	AY36315W01	390208	12.91	294912	18.10	160064	22.30
08	AY36312W01	392128	12.91	290176	18.10	167488	22.30
09	AY36313W01	495616	12.91	374080	18.10	205376	22.30
10	AY36316W01	554432	12.92	414270	18.10	237120	22.30
11	AY36317W01	551552	12.91	413184	18.11	226112	22.31
12	AY36312W234 MS-1W	405440	12.88	326592	18.08	197440	22.28
13	AY36312W234 MSD-1V	546304	12.89	407488	18.08	237568	22.27
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: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES019
Sample Collection Date: 04/19/11

ARF: 64475
APPL ID: AY36311
QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/23/11	04/23/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/23/11	04/23/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/23/11	04/23/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/23/11	04/23/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/23/11	04/23/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/23/11	04/23/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/23/11	04/23/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C33
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES019

APPL ID: AY36311

Sample Collection Date: 04/19/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/23/11	04/23/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	101	70-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	100.0	75-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	95.0	85-115			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	91.4	85-120			%	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C33
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C33W.D Vial: 1
Acq On : 23 Apr 11 12:44 Operator: RS
Sample : AY36311W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:45 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	96	403072	25.00000 ppb	0.01
35) Chlorobenzene-D5 (IS)	18.10	117	302976	25.00000 ppb	0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	171264	25.00000 ppb	0.00
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.49	111	287731	22.35388 ppb	0.00
Spiked Amount 23.521			Recovery =	95.040%	
23) 1,2-DCA-D4(S)	12.30	65	184362	22.46063 ppb	0.00
Spiked Amount 22.321			Recovery =	100.629%	
36) Toluene-D8(S)	15.57	98	1024061	23.76348 ppb	0.00
Spiked Amount 26.002			Recovery =	91.390%	
44) 4-Bromofluorobenzene(S)	20.17	95	374276	26.33371 ppb	0.00
Spiked Amount 26.339			Recovery =	99.983%	

Target Compounds Qvalue

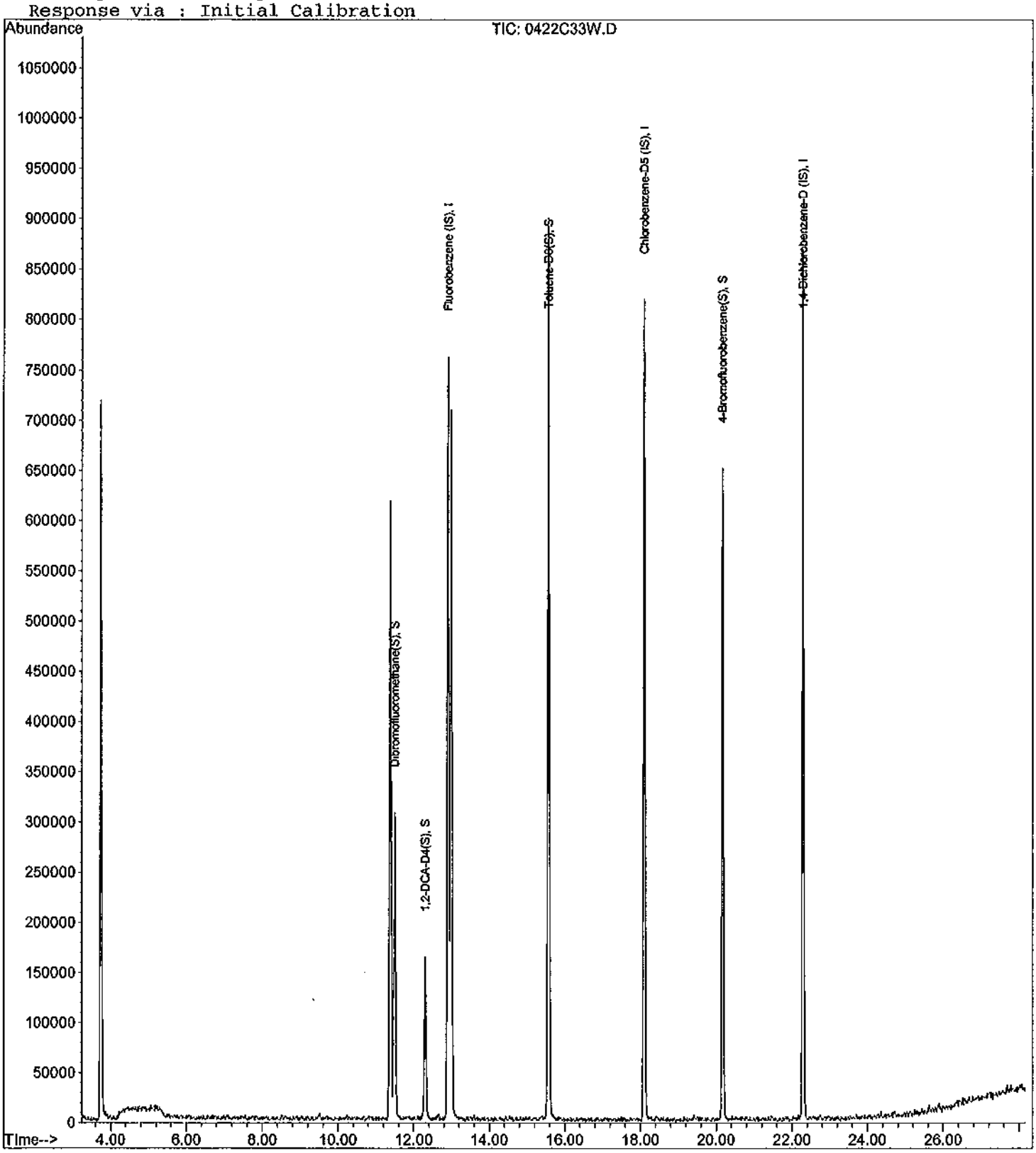
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C33W.D Vial: 1
Acq On : 23 Apr 11 12:44 Operator: RS
Sample : AY36311W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:45 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C33W.D Vial: 1
Acq On : 23 Apr 11 12:44 Operator: RS
Sample : AY36311W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:59 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	TIC	759865	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	818354	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.30	TIC	866413	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.49	TIC	961710	22.79603 ppb	0.00
Spiked Amount 23.521			Recovery =	96.918%	
5) Toluene-D8(S)	15.57	TIC	2717356	26.25869 ppb	0.00
Spiked Amount 26.002			Recovery =	100.988%	
6) 4-Bromofluorobenzene(S)	20.17	TIC	1827096	26.54038 ppb	0.00
Spiked Amount 26.339			Recovery =	100.763%	

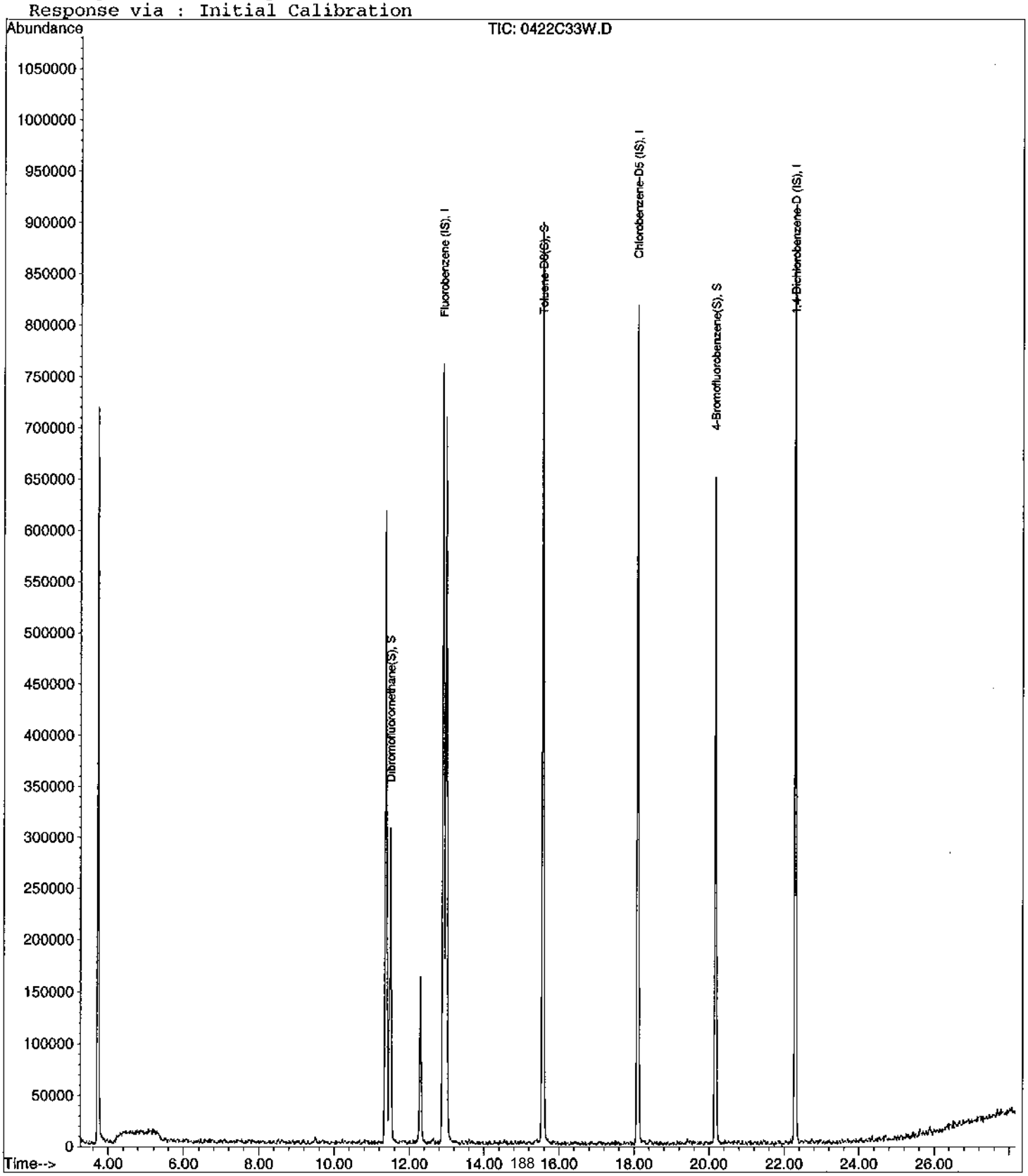
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C33W.D Vial: 1
Acq On : 23 Apr 11 12:44 Operator: RS
Sample : AY36311W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:59 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES020

APPL ID: AY36312

Sample Collection Date: 04/19/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/23/11	04/23/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/23/11	04/23/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/23/11	04/23/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/23/11	04/23/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/23/11	04/23/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/23/11	04/23/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	GASOLINE	24 ++	20.0	12.12	6.06	ug/L	04/23/11	04/23/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/23/11	04/23/11

J = Estimated value.
++(G3) The analyst has noted that the chromatogram of this sample includes higher boiling hydrocarbons.

Quant Method: C86DODW.M
Run #: 0422C36
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES020

APPL ID: AY36312

Sample Collection Date: 04/19/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/23/11	04/23/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	XYLENES (TOTAL)	0.41 J	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	99.0	70-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	98.1	75-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	94.8	85-115			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	91.7	85-120			%	04/23/11	04/23/11

J = Estimated value.
++(G3) The analyst has noted that the chromatogram of this sample includes higher boiling hydrocarbons.

Quant Method: C86DODW.M
Run #: 0422C36
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C36W.D Vial: 1
Acq On : 23 Apr 11 14:29 Operator: RS
Sample : AY36312W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:49 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.91	96	392128	25.00000	ppb		0.01
35) Chlorobenzene-D5 (IS)	18.10	117	290176	25.00000	ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	167488	25.00000	ppb		0.00
System Monitoring Compounds							
20) Dibromofluoromethane(S)	11.49	111	279105	22.28890	ppb		0.00
Spiked Amount 23.521			Recovery = 94.764%				
23) 1,2-DCA-D4(S)	12.31	65	176468	22.09893	ppb		0.01
Spiked Amount 22.321			Recovery = 99.007%				
36) Toluene-D8(S)	15.57	98	983906	23.83881	ppb		0.01
Spiked Amount 26.002			Recovery = 91.682%				
44) 4-Bromofluorobenzene(S)	20.17	95	351935	25.82983	ppb		0.00
Spiked Amount 26.339			Recovery = 98.069%				
Target Compounds							Qvalue
42) o-Xylene	19.16	106	8169	0.40888	ppb		90
53) Isopropylbenzene	19.80	105	205802	3.58954	ppb		97
57) n-Propylbenzene	20.50	91	110733	1.72057	ppb		98
61) Tert-Butylbenzene	21.42	119	38304	0.77418	ppb		94
63) Sec-Butylbenzene	21.81	105	216285	3.39348	ppb		98
67) n-Butylbenzene	22.75	91	67179	1.51357	ppb	#	71
72) Naphthalene	25.98	128	23974	2.88076	ppb	#	90

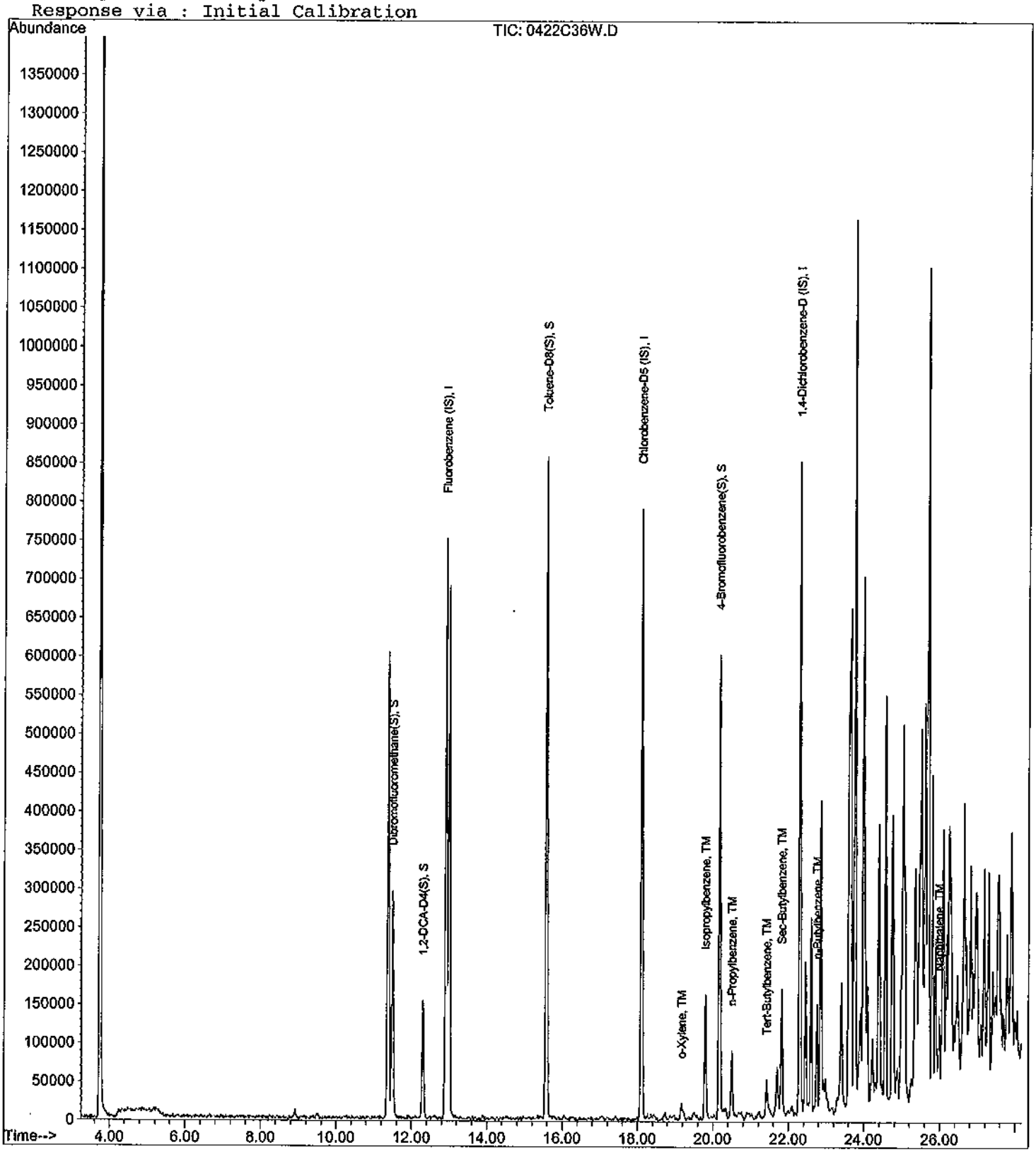
(#) = qualifier out of range (m) = manual integration

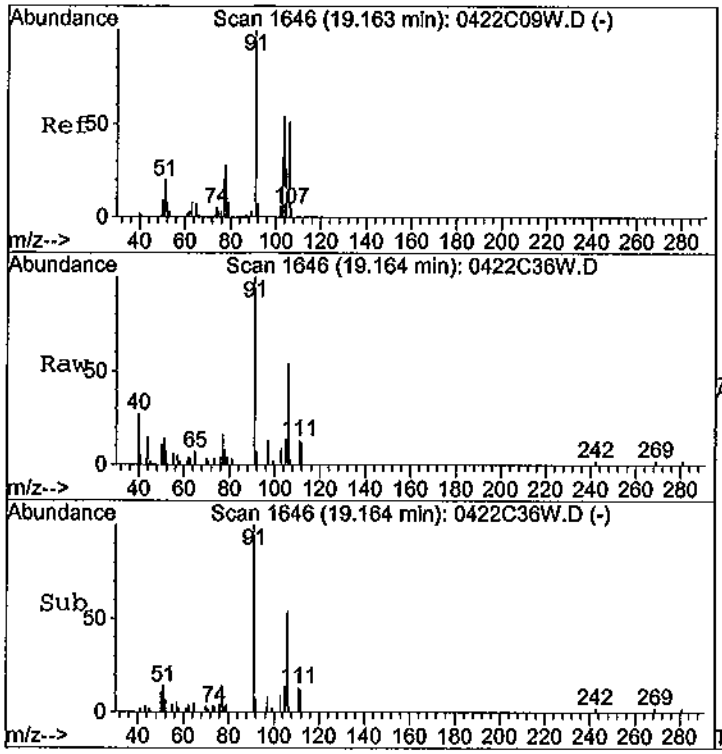
Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C36W.D Vial: 1
Acq On : 23 Apr 11 14:29 Operator: RS
Sample : AY36312W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:49 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration

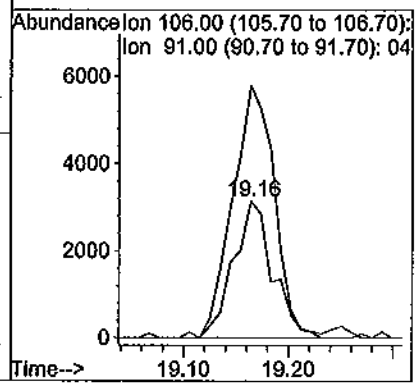


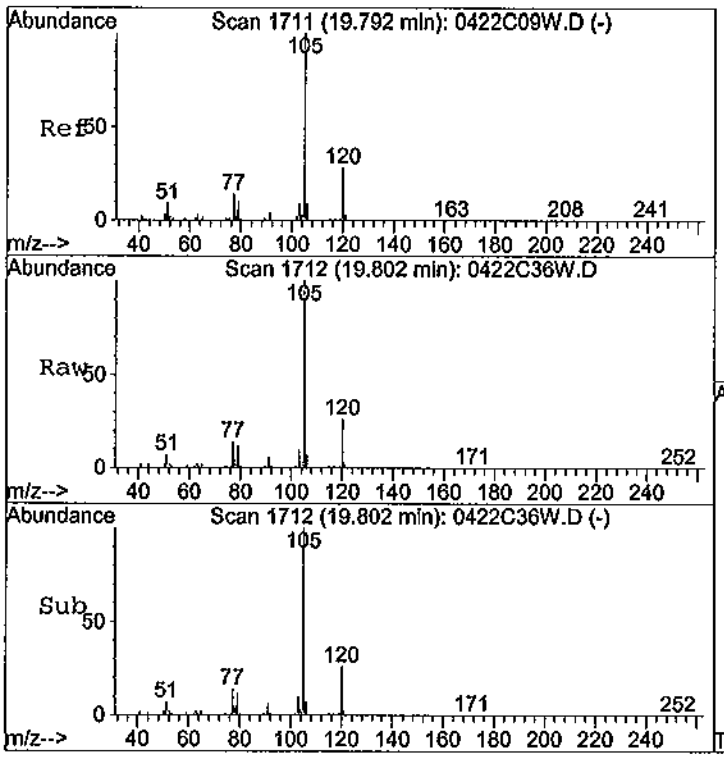


#42
o-Xylene
Concen: 0.40888 ppb
RT: 19.16 min Scan# 1646
Delta R.T. 0.00 min
Lab File: 0422C36W.D
Acq: 23 Apr 11 14:29

Tgt Ion:106 Resp: 8169

Ion	Ratio	Lower	Upper
106	100		
91	180.5	136.4	253.2

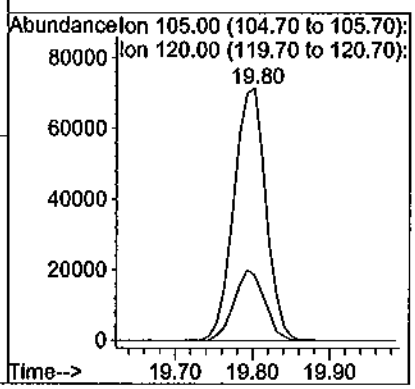


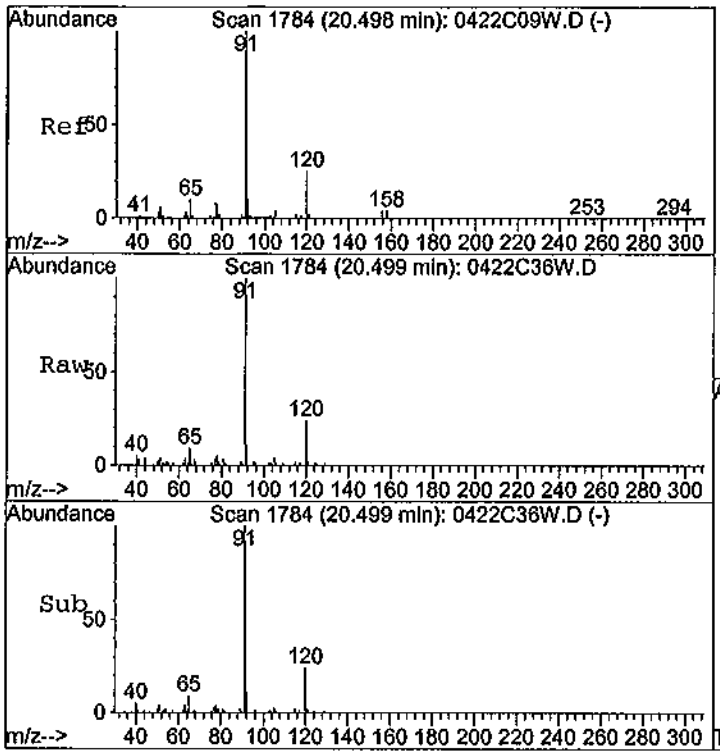


#53
Isopropylbenzene
Concen: 3.58954 ppb
RT: 19.80 min Scan# 1712
Delta R.T. 0.01 min
Lab File: 0422C36W.D
Acq: 23 Apr 11 14:29

Tgt Ion:105 Resp: 205802

Ion	Ratio	Lower	Upper
105	100		
120	26.0	22.2	33.2

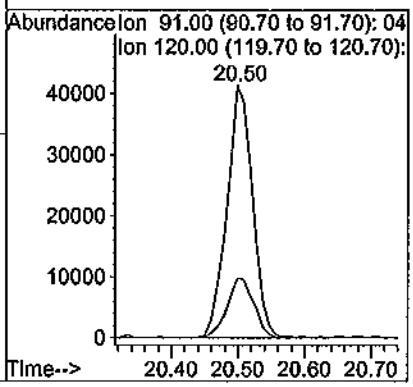


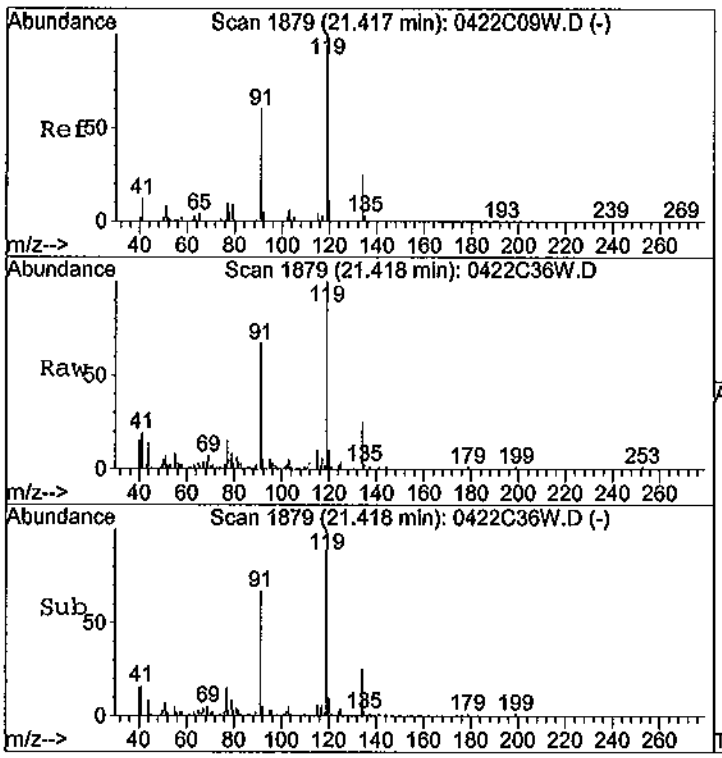


#57
n-Propylbenzene
Concen: 1.72057 ppb
RT: 20.50 min Scan# 1784
Delta R.T. 0.00 min
Lab File: 0422C36W.D
Acq: 23 Apr 11 14:29

Tgt Ion: 91 Resp: 110733

Ion	Ratio	Lower	Upper
91	100		
120	23.7	17.2	31.9

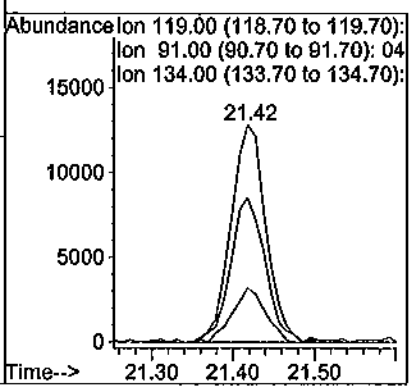


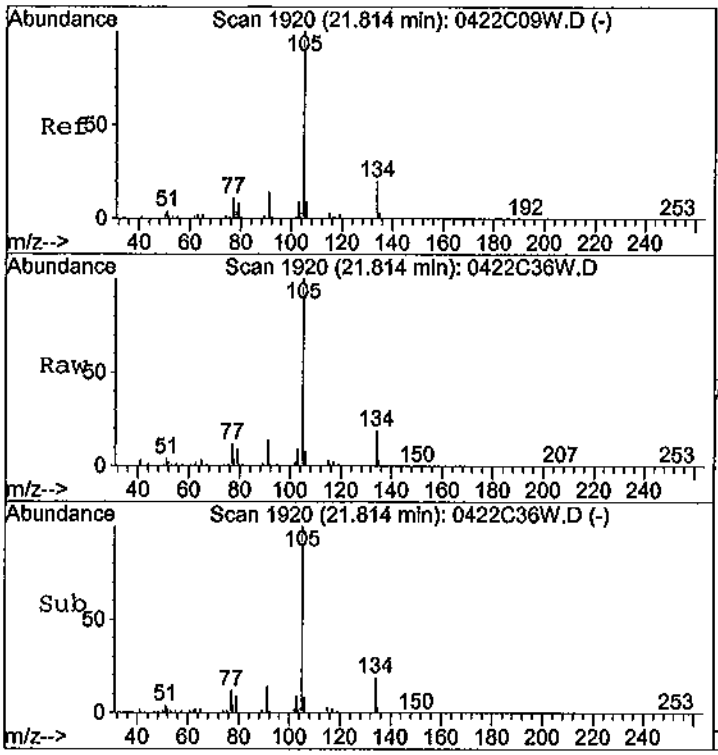


#61
Tert-Butylbenzene
Concen: 0.77418 ppb
RT: 21.42 min Scan# 1879
Delta R.T. 0.00 min
Lab File: 0422C36W.D
Acq: 23 Apr 11 14:29

Tgt Ion:119 Resp: 38304

Ion	Ratio	Lower	Upper
119	100		
91	66.6	42.1	78.1
134	25.0	17.6	32.6

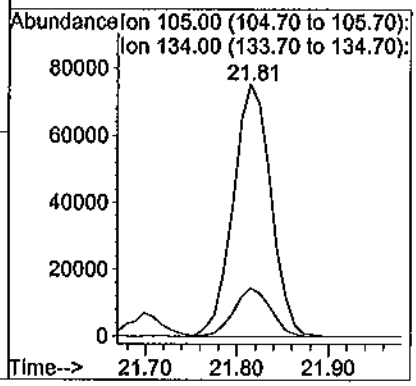


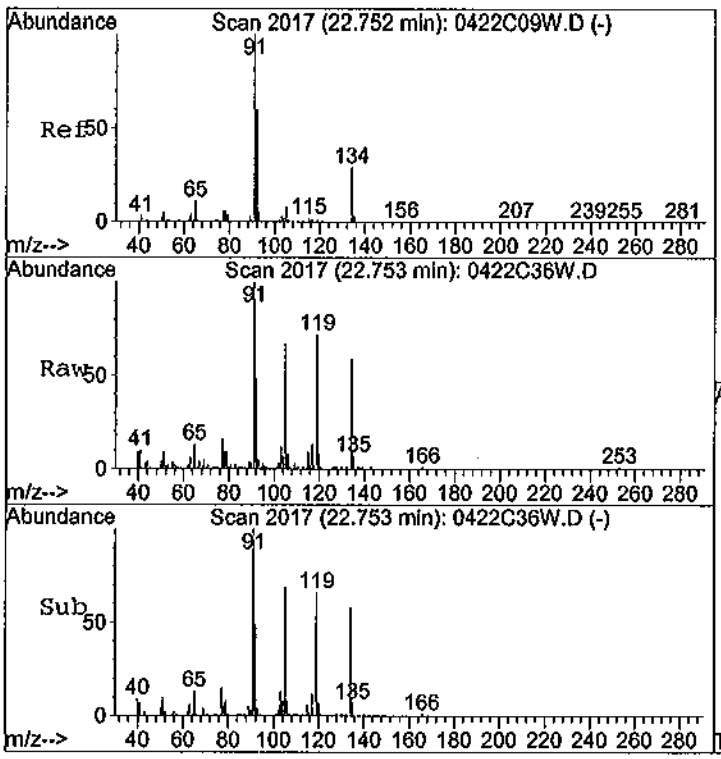


#63
Sec-Butylbenzene
Concen: 3.39348 ppb
RT: 21.81 min Scan# 1920
Delta R.T. 0.00 min
Lab File: 0422C36W.D
Acq: 23 Apr 11 14:29

Tgt Ion:105 Resp: 216285

Ion	Ratio	Lower	Upper
105	100		
134	19.2	14.1	26.1

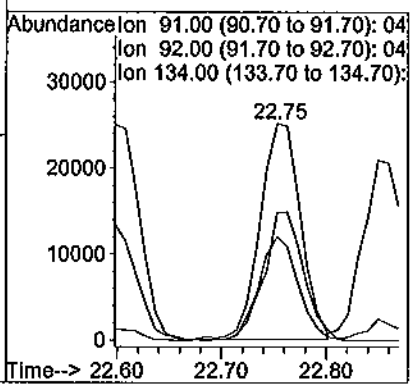


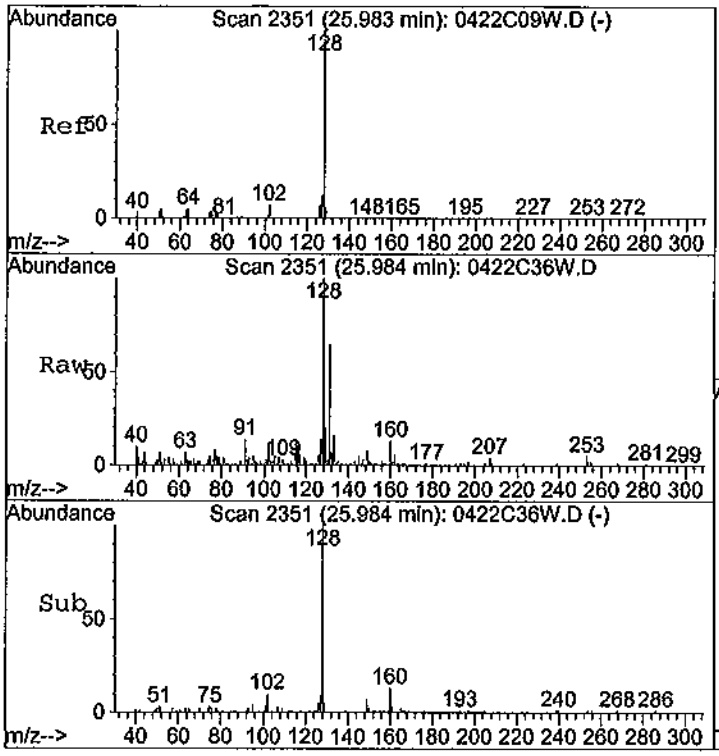


#67
n-Butylbenzene
Concen: 1.51357 ppb
RT: 22.75 min Scan# 2017
Delta R.T. 0.00 min
Lab File: 0422C36W.D
Acq: 23 Apr 11 14:29

Tgt Ion: 91 Resp: 67179

Ion	Ratio	Lower	Upper
91	100		
92	48.1	42.3	78.5
134	58.6	20.4	38.0#

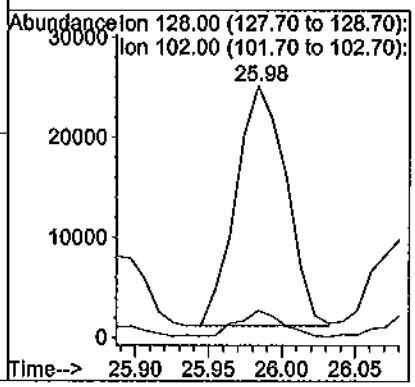




#72
Naphthalene
Concen: 2.88076 ppb
RT: 25.98 min Scan# 2351
Delta R.T. 0.00 min
Lab File: 0422C36W.D
Acq: 23 Apr 11 14:29

Tgt Ion:128 Resp: 23974

Ion	Ratio	Lower	Upper
128	100		
102	10.8	5.1	9.5#



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C36W.D Vial: 1
Acq On : 23 Apr 11 14:29 Operator: RS
Sample : AY36312W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:00 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

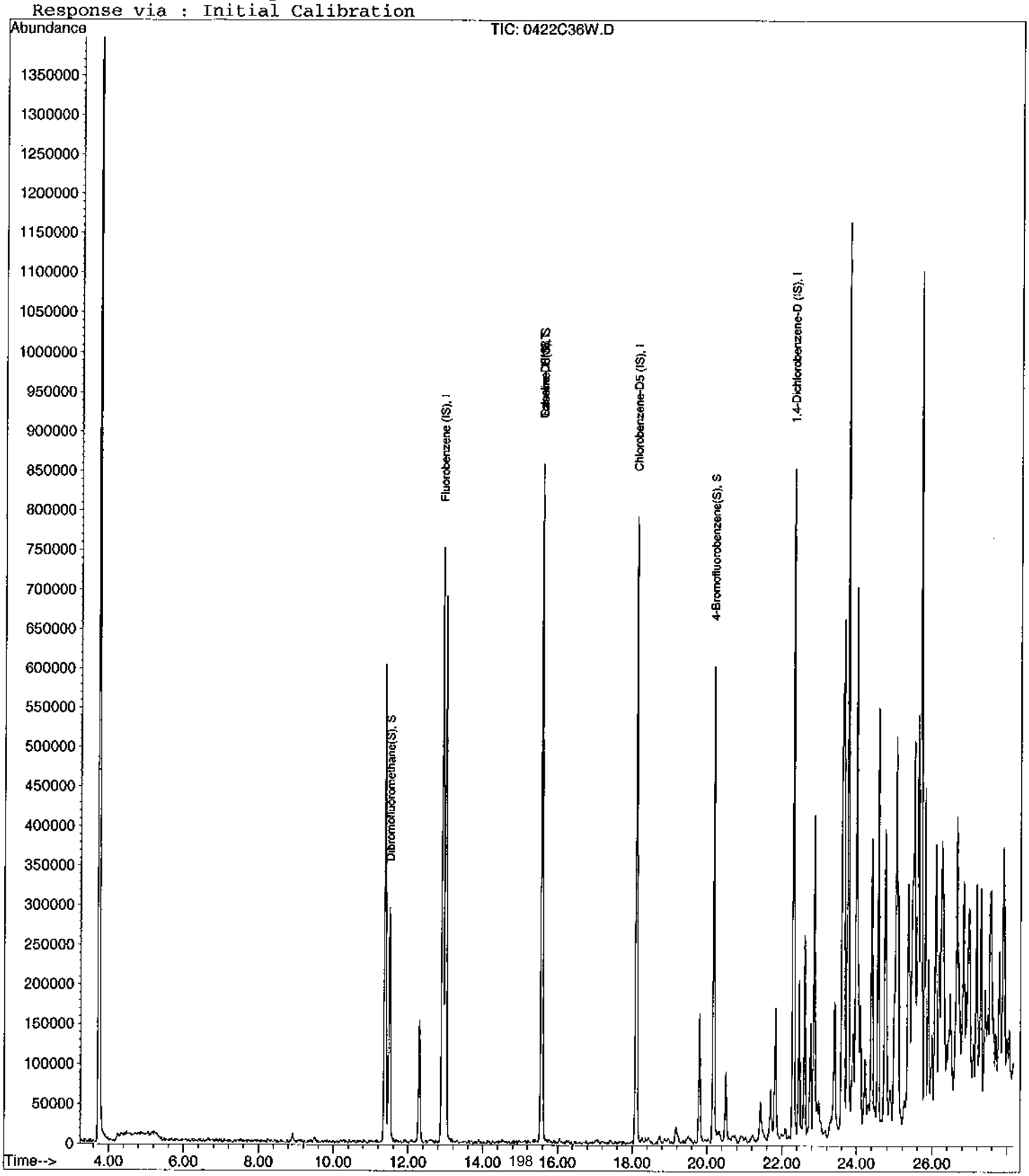
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	TIC	751253	25.00000 ppb	0.01
4) Chlorobenzene-D5 (IS)	18.10	TIC	790887	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.30	TIC	843802	25.00000 ppb	0.01
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.49	TIC	912349	21.87391 ppb	0.01
Spiked Amount 23.521			Recovery = 92.998%		
5) Toluene-D8(S)	15.57	TIC	2611713	26.11432 ppb	0.01
Spiked Amount 26.002			Recovery = 100.431%		
6) 4-Bromofluorobenzene(S)	20.17	TIC	1773370	26.65458 ppb	0.00
Spiked Amount 26.339			Recovery = 101.200%		
Target Compounds					Qvalue
2) Gasoline	15.57	TIC	17237874m	24.27015 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C36W.D Vial: 1
Acq On : 23 Apr 11 14:29 Operator: RS
Sample : AY36312W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:00 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES021

APPL ID: AY36313

Sample Collection Date: 04/19/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/23/11	04/23/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/23/11	04/23/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/23/11	04/23/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/23/11	04/23/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/23/11	04/23/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/23/11	04/23/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	GASOLINE	29 ++	20.0	12.12	6.06	ug/L	04/23/11	04/23/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/23/11	04/23/11

J = Estimated value.
++(G3) The analyst has noted that the chromatogram of this sample includes higher boiling hydrocarbons.

Quant Method: C86DODW.M
Run #: 0422C37
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 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: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES021
Sample Collection Date: 04/19/11

ARF: 64475
APPL ID: AY36313
QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/23/11	04/23/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	XYLENES (TOTAL)	0.41 J	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	90.5	70-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	92.8	75-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	90.0	85-115			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	90.2	85-120			%	04/23/11	04/23/11

J = Estimated value.
++(G3) The analyst has noted that the chromatogram of this sample includes higher boiling hydrocarbons.

Quant Method: C86DODW.M
Run #: 0422C37
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C37W.D Vial: 1
Acq On : 23 Apr 11 15:04 Operator: RS
Sample : AY36313W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:51 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.91	96	495616	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	374080	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	205376	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.50	111	335076	21.17127 ppb		0.00
Spiked Amount 23.521			Recovery =	90.011%		
23) 1,2-DCA-D4(S)	12.30	65	203853	20.19784 ppb		0.00
Spiked Amount 22.321			Recovery =	90.490%		
36) Toluene-D8(S)	15.57	98	1247881	23.45315 ppb		0.00
Spiked Amount 26.002			Recovery =	90.198%		
44) 4-Bromofluorobenzene(S)	20.17	95	430474	24.43957 ppb		0.00
Spiked Amount 26.339			Recovery =	92.792%		
Target Compounds						Qvalue
42) o-Xylene	19.18	106	10641	0.41315 ppb		71
53) Isopropylbenzene	19.80	105	252365	3.58965 ppb		100
57) n-Propylbenzene	20.50	91	145954	1.84946 ppb		98
61) Tert-Butylbenzene	21.42	119	46295	0.76307 ppb		90
63) Sec-Butylbenzene	21.82	105	271311	3.47153 ppb		99
67) n-Butylbenzene	22.76	91	89580	1.64594 ppb	#	77

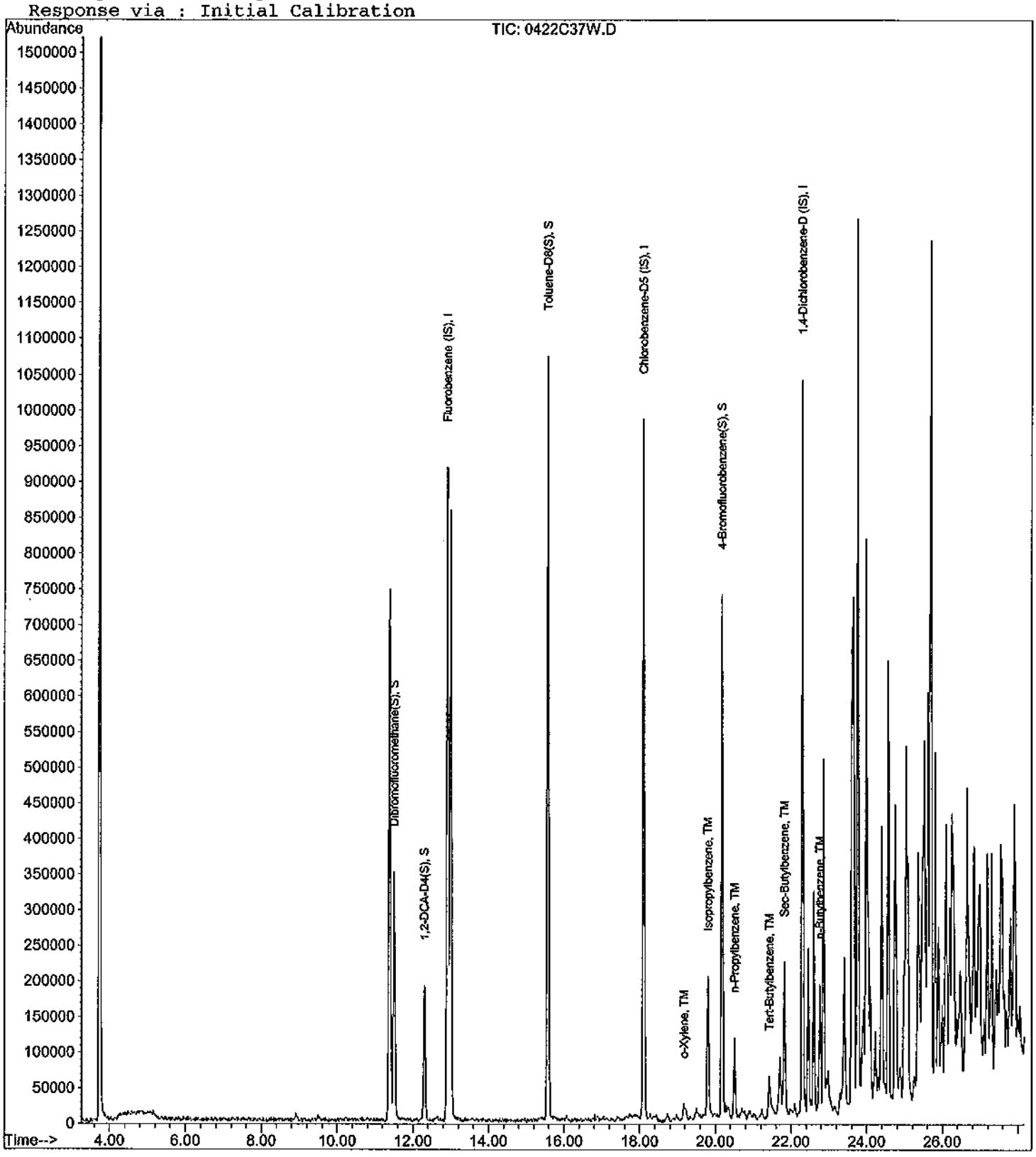
(#) = qualifier out of range (m) = manual integration

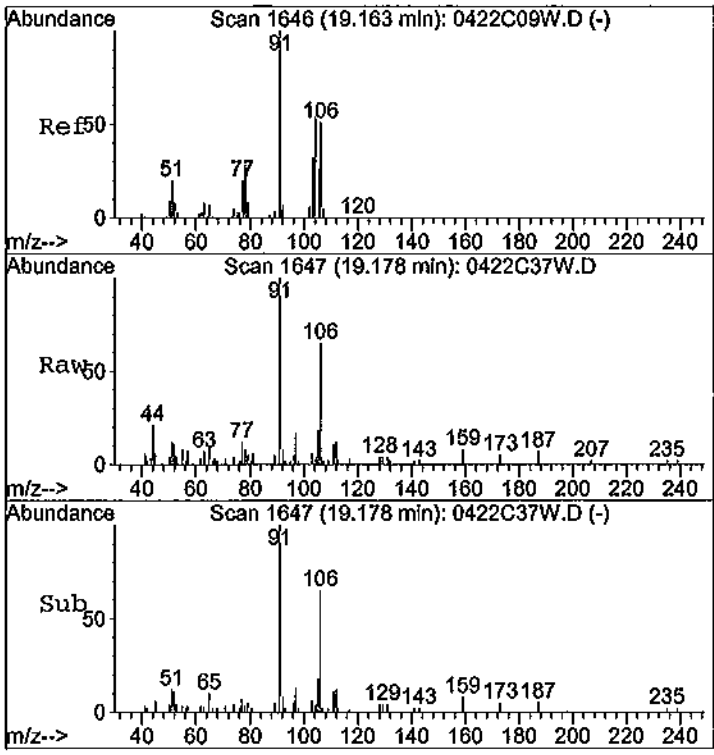
Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C37W.D Vial: 1
Acq On : 23 Apr 11 15:04 Operator: RS
Sample : AY36313W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:51 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration

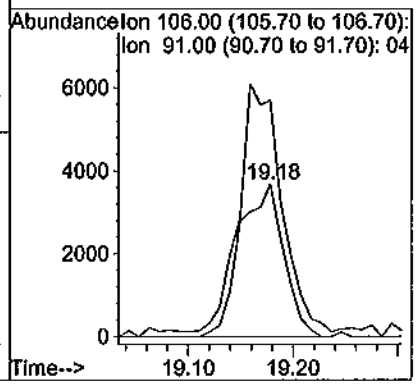


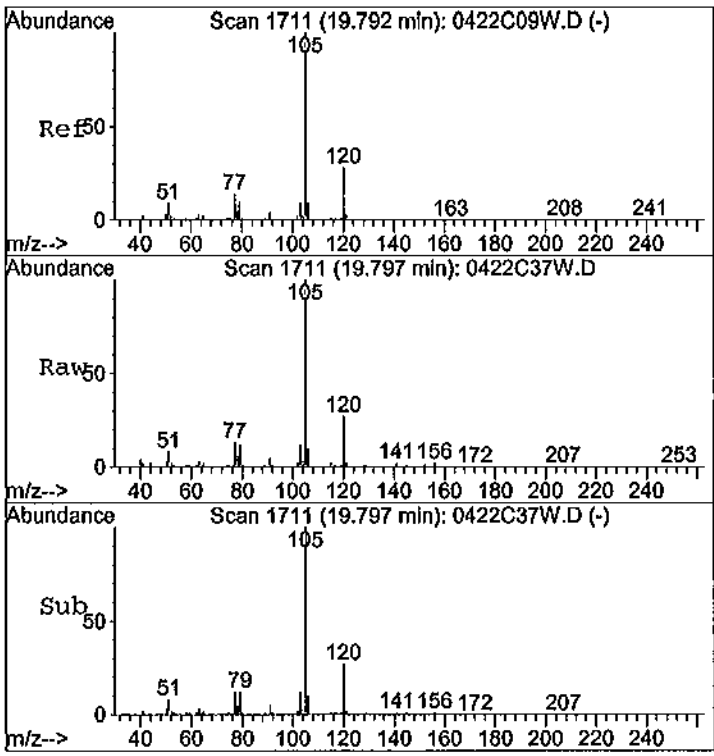


#42
o-Xylene
Concen: 0.41315 ppb
RT: 19.18 min Scan# 1647
Delta R.T. 0.02 min
Lab File: 0422C37W.D
Acq: 23 Apr 11 15:04

Tgt Ion:106 Resp: 10641

Ion	Ratio	Lower	Upper
106	100		
91	151.8	136.4	253.2

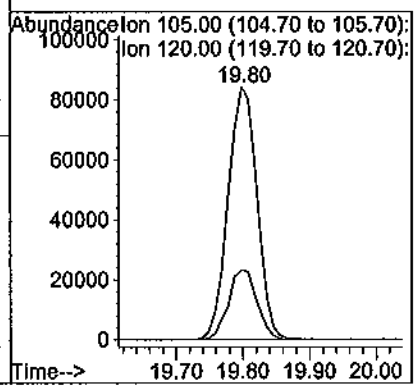


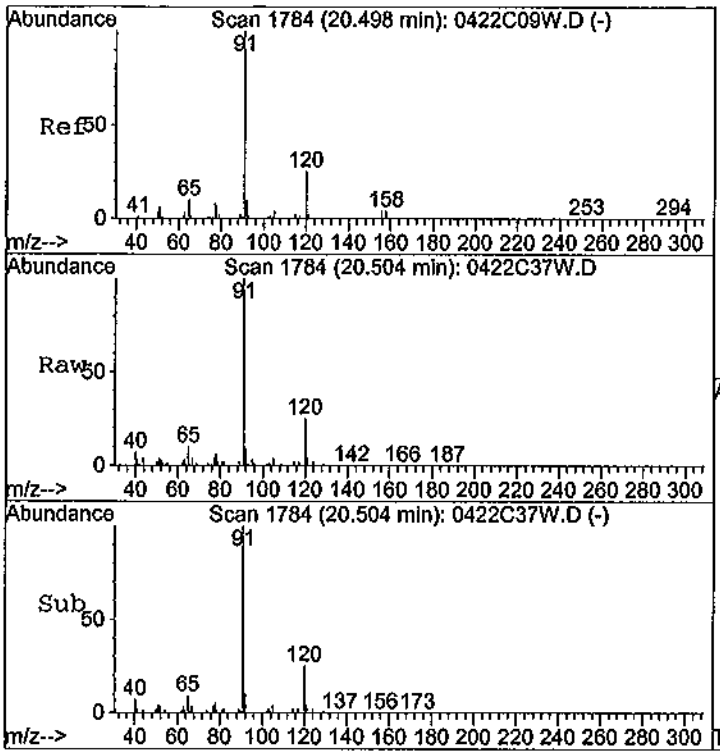


#53
Isopropylbenzene
Concen: 3.58965 ppb
RT: 19.80 min Scan# 1711
Delta R.T. 0.01 min
Lab File: 0422C37W.D
Acq: 23 Apr 11 15:04

Tgt Ion:105 Resp: 252365

Ion	Ratio	Lower	Upper
105	100		
120	27.5	22.2	33.2

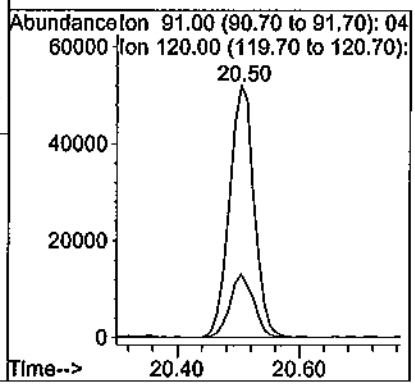


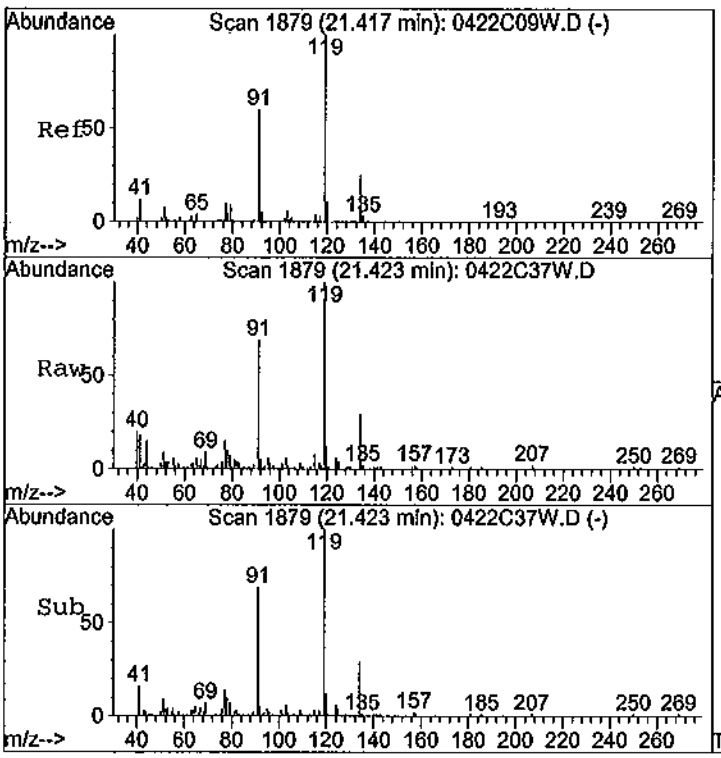


#57
n-Propylbenzene
Concen: 1.84946 ppb
RT: 20.50 min Scan# 1784
Delta R.T. 0.01 min
Lab File: 0422C37W.D
Acq: 23 Apr 11 15:04

Tgt Ion: 91 Resp: 145954

Ion	Ratio	Lower	Upper
91	100		
120	25.3	17.2	31.9

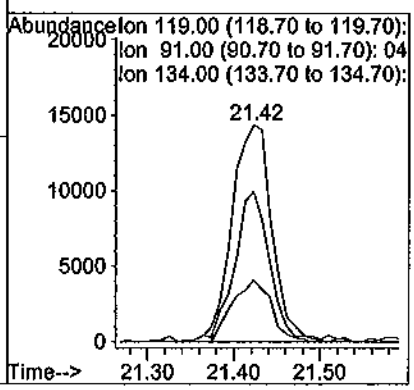


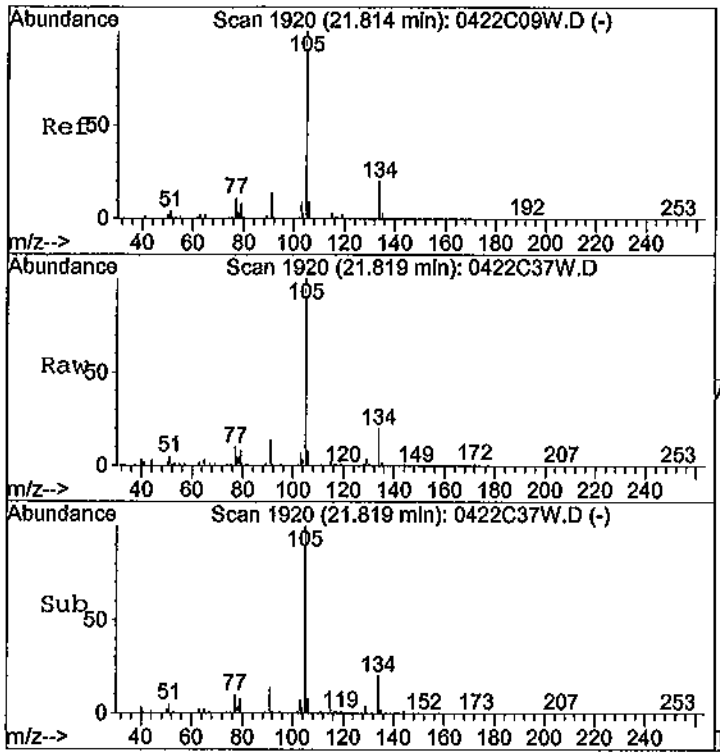


#61
Tert-Butylbenzene
Concen: 0.76307 ppb
RT: 21.42 min Scan# 1879
Delta R.T. 0.01 min
Lab File: 0422C37W.D
Acq: 23 Apr 11 15:04

Tgt Ion:119 Resp: 46295

Ion	Ratio	Lower	Upper
119	100		
91	68.2	42.1	78.1
134	28.5	17.6	32.6

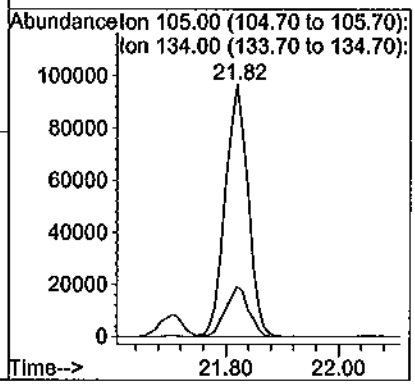


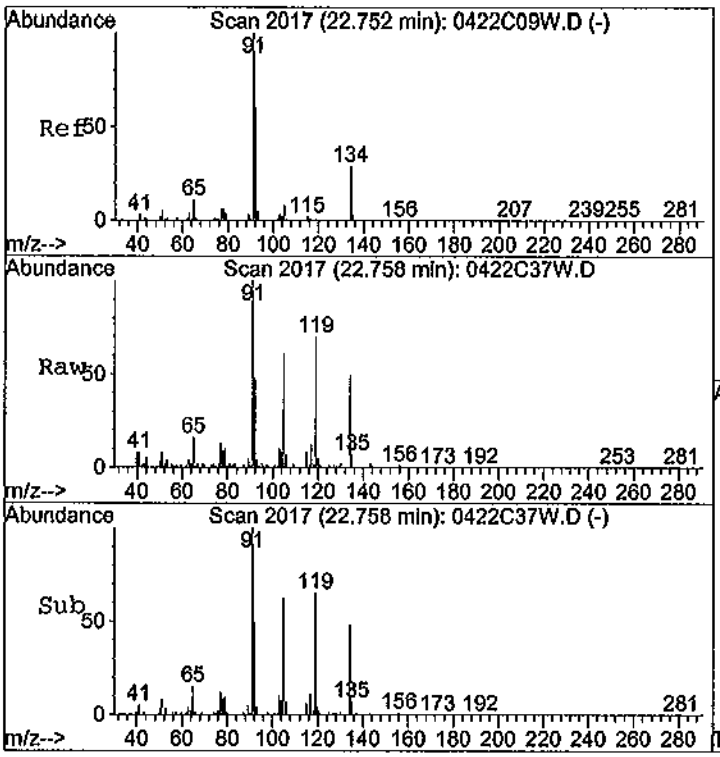


#63
Sec-Butylbenzene
Concen: 3.47153 ppb
RT: 21.82 min Scan# 1920
Delta R.T. 0.01 min
Lab File: 0422C37W.D
Acq: 23 Apr 11 15:04

Tgt Ion:105 Resp: 271311

Ion	Ratio	Lower	Upper
105	100		
134	19.7	14.1	26.1

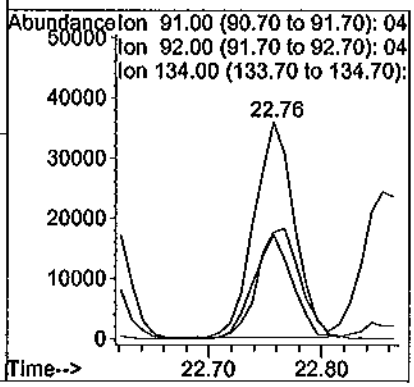




#67
n-Butylbenzene
Concen: 1.64594 ppb
RT: 22.76 min Scan# 2017
Delta R.T. 0.01 min
Lab File: 0422C37W.D
Acq: 23 Apr 11 15:04

Tgt Ion: 91 Resp: 89580

Ion	Ratio	Lower	Upper
91	100		
92	48.1	42.3	78.5
134	49.0	20.4	38.0#



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C37W.D Vial: 1
Acq On : 23 Apr 11 15:04 Operator: RS
Sample : AY36313W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:59 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

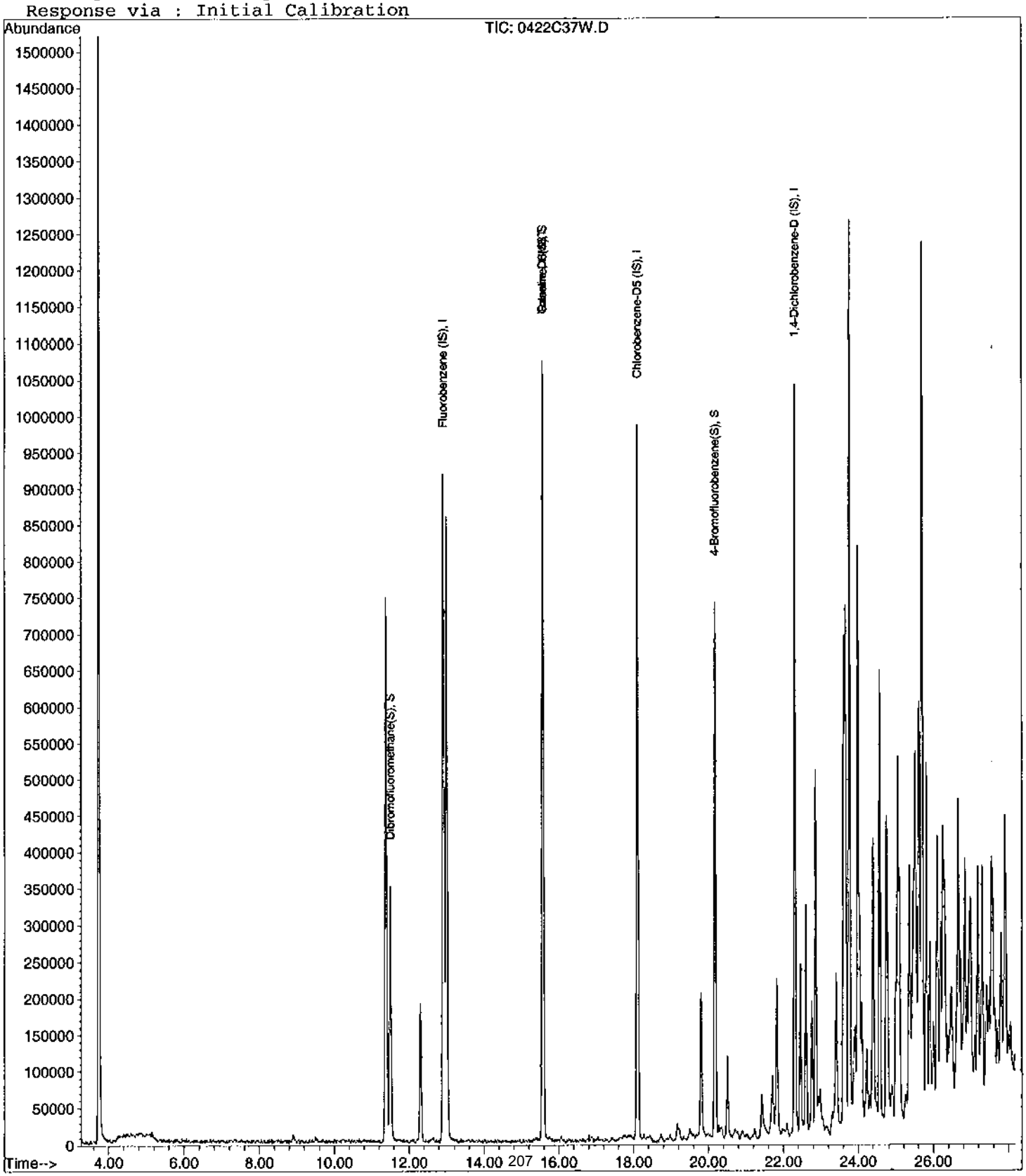
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	TIC	917711	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	981024	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.30	TIC	1031651	25.00000 ppb	0.01
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.50	TIC	1109836	21.78233 ppb	0.01
Spiked Amount 23.521			Recovery	= 92.607%	
5) Toluene-D8(S)	15.57	TIC	3251355	26.20913 ppb	0.00
Spiked Amount 26.002			Recovery	= 100.796%	
6) 4-Bromofluorobenzene(S)	20.17	TIC	2061117	24.97526 ppb	0.00
Spiked Amount 26.339			Recovery	= 94.821%	
Target Compounds					Qvalue
2) Gasoline	15.57	TIC	21400592m	29.37202 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C37W.D Vial: 1
Acq On : 23 Apr 11 15:04 Operator: RS
Sample : AY36313W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:59 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES022

APPL ID: AY36314

Sample Collection Date: 04/19/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/23/11	04/23/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/23/11	04/23/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/23/11	04/23/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/23/11	04/23/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/23/11	04/23/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/23/11	04/23/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/23/11	04/23/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C34
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES022

APPL ID: AY36314

Sample Collection Date: 04/19/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/23/11	04/23/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	99.3	70-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	94.9	75-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	95.0	85-115			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	90.3	85-120			%	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C34
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C34W.D Vial: 1
Acq On : 23 Apr 11 13:19 Operator: RS
Sample : AY36314W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:46 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	96	397888	25.00000 ppb	0.00
35) Chlorobenzene-D5 (IS)	18.10	117	297856	25.00000 ppb	0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	161088	25.00000 ppb	0.00
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.49	111	284017	22.35282 ppb	0.00
Spiked Amount 23.521			Recovery =	95.036%	
23) 1,2-DCA-D4(S)	12.30	65	179574	22.16235 ppb	0.00
Spiked Amount 22.321			Recovery =	99.289%	
36) Toluene-D8(S)	15.57	98	994624	23.47713 ppb	0.00
Spiked Amount 26.002			Recovery =	90.290%	
44) 4-Bromofluorobenzene(S)	20.17	95	350064	24.98882 ppb	0.00
Spiked Amount 26.339			Recovery =	94.876%	

Target Compounds Qvalue

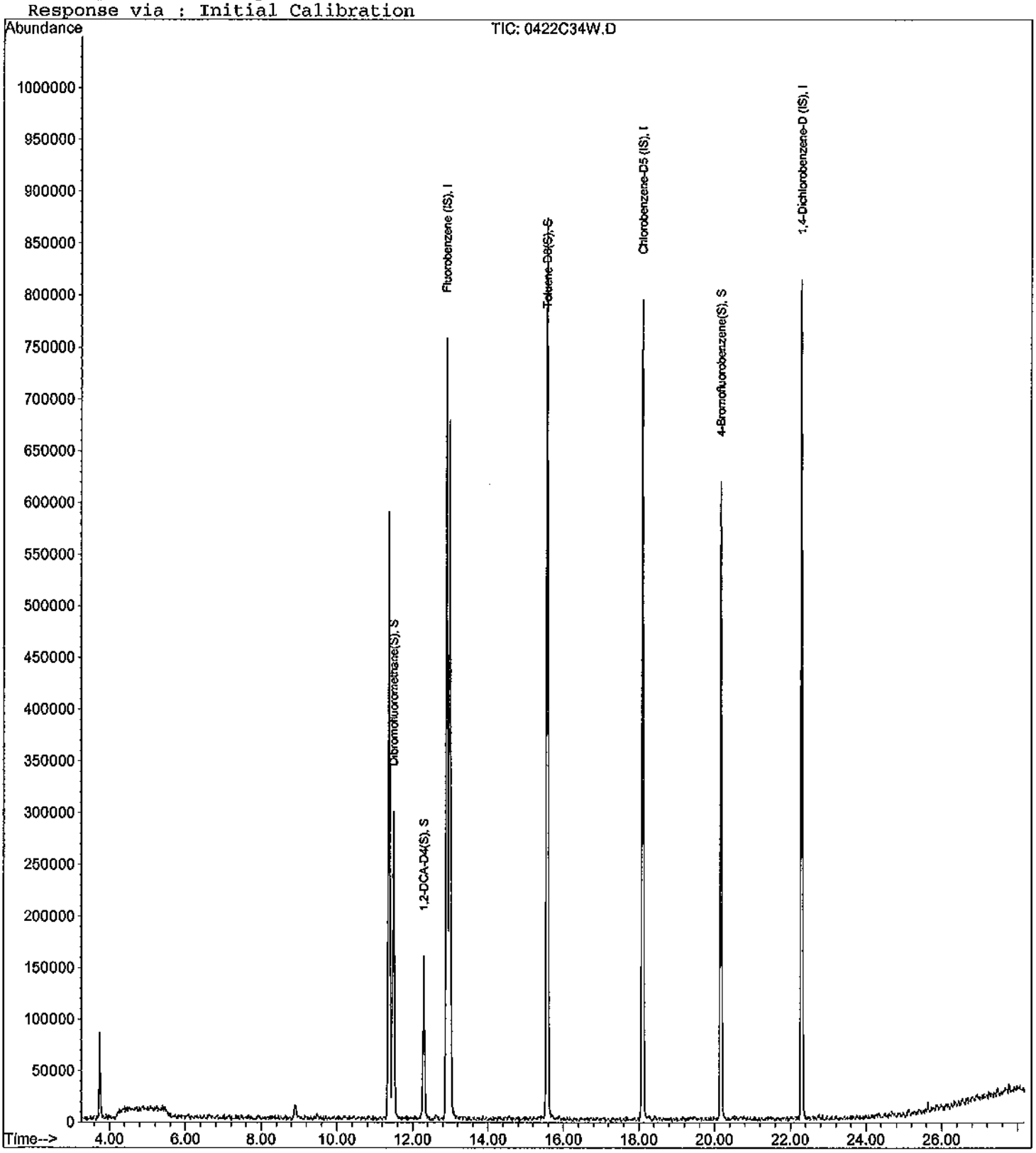
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C34W.D Vial: 1
Acq On : 23 Apr 11 13:19 Operator: RS
Sample : AY36314W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:46 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C34W.D Vial: 1
Acq On : 23 Apr 11 13:19 Operator: RS
Sample : AY36314W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:59 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	TIC	756357	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	793886	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.30	TIC	812421	25.00000	ppb	0.01
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.49	TIC	930916	22.16844	ppb	0.01
Spiked Amount 23.521			Recovery =	94.248%		
5) Toluene-D8(S)	15.57	TIC	2608358	25.98225	ppb	0.00
Spiked Amount 26.002			Recovery =	99.923%		
6) 4-Bromofluorobenzene(S)	20.17	TIC	1722015	25.78492	ppb	0.00
Spiked Amount 26.339			Recovery =	97.897%		

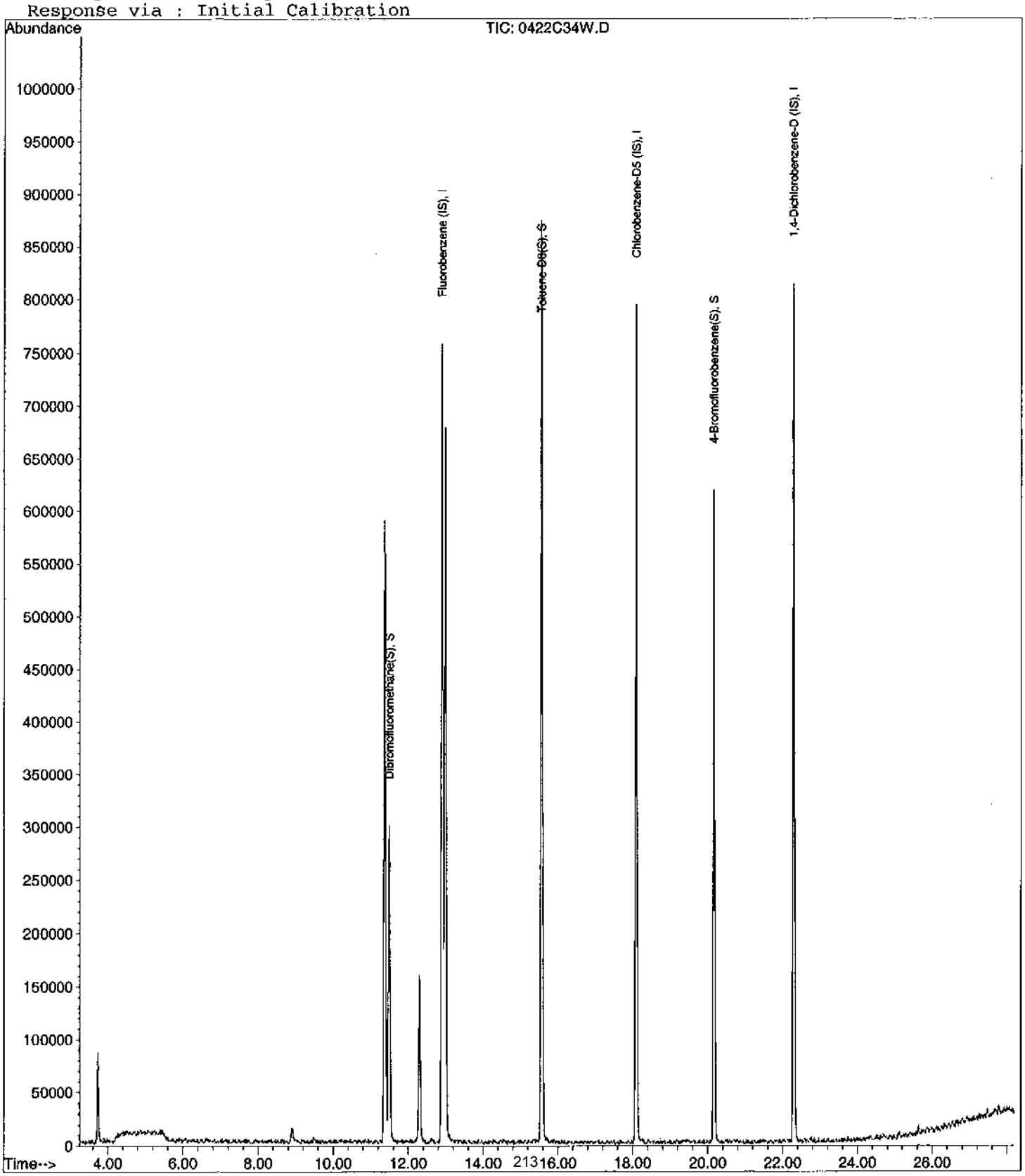
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C34W.D Vial: 1
Acq On : 23 Apr 11 13:19 Operator: RS
Sample : AY36314W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:59 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES023

APPL ID: AY36315

Sample Collection Date: 04/19/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/23/11	04/23/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/23/11	04/23/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/23/11	04/23/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/23/11	04/23/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/23/11	04/23/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/23/11	04/23/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/23/11	04/23/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C35
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES023

APPL ID: AY36315

Sample Collection Date: 04/19/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/23/11	04/23/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	101	70-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	99.0	75-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	98.2	85-115			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	88.4	85-120			%	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C35
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C35W.D Vial: 1
Acq On : 23 Apr 11 13:54 Operator: RS
Sample : AY36315W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:48 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	96	390208	25.00000 ppb	0.00
35) Chlorobenzene-D5 (IS)	18.10	117	294912	25.00000 ppb	0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	160064	25.00000 ppb	0.00
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.50	111	287719	23.08986 ppb	0.00
Spiked Amount 23.521			Recovery =	98.170%	
23) 1,2-DCA-D4(S)	12.29	65	179278	22.56129 ppb	0.00
Spiked Amount 22.321			Recovery =	101.077%	
36) Toluene-D8(S)	15.57	98	964477	22.99280 ppb	0.00
Spiked Amount 26.002			Recovery =	88.428%	
44) 4-Bromofluorobenzene(S)	20.17	95	361046	26.08552 ppb	0.00
Spiked Amount 26.339			Recovery =	99.041%	

Target Compounds Qvalue

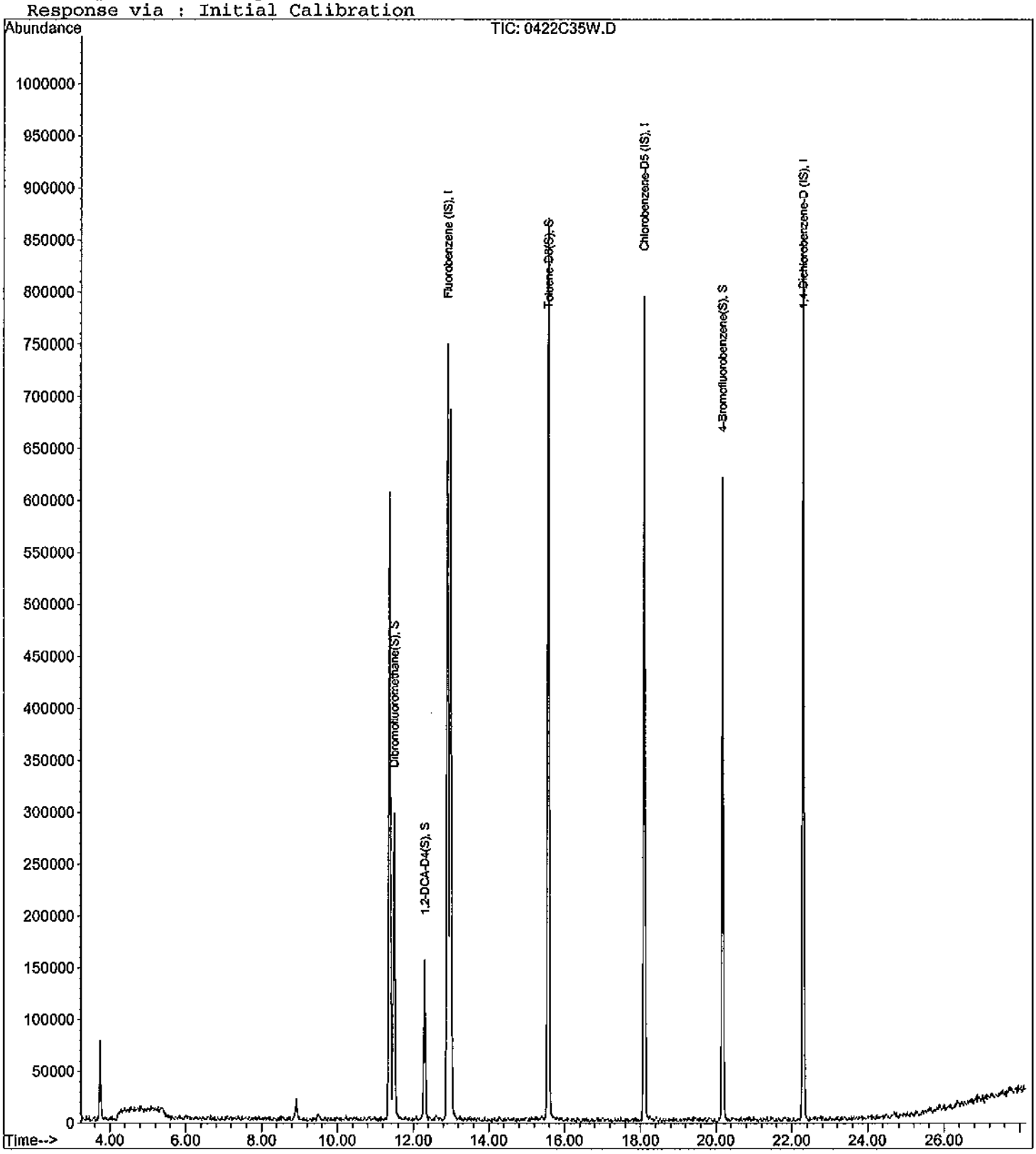
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C35W.D Vial: 1
Acq On : 23 Apr 11 13:54 Operator: RS
Sample : AY36315W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:48 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C35W.D Vial: 1
Acq On : 23 Apr 11 13:54 Operator: RS
Sample : AY36315W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:59 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

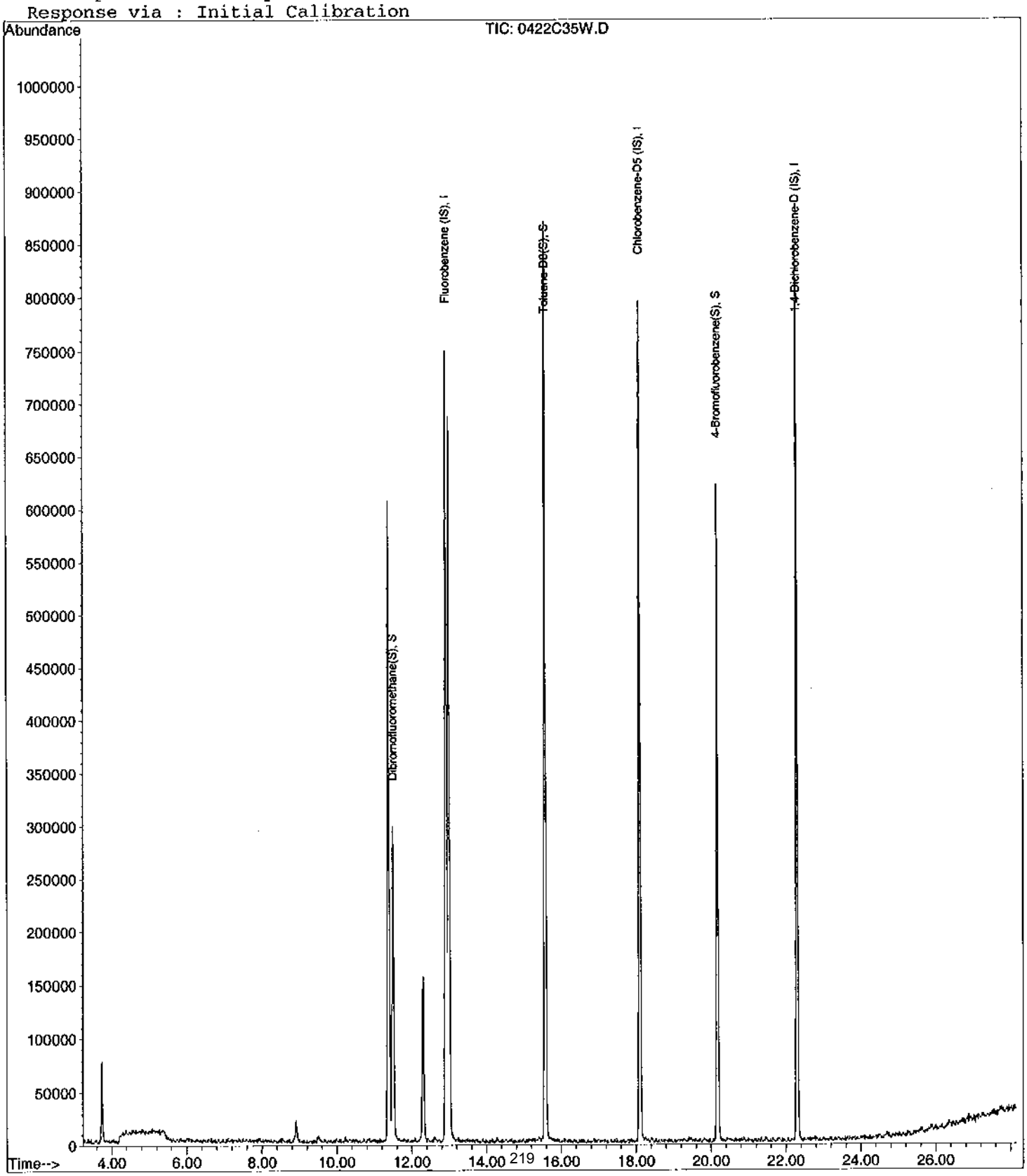
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	TIC	747955	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	793661	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.30	TIC	845116	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.50	TIC	934294	22.49881	ppb	0.02
Spiked Amount 23.521			Recovery =	95.655%		
5) Toluene-D8(S)	15.57	TIC	2551098	25.41908	ppb	0.00
Spiked Amount 26.002			Recovery =	97.758%		
6) 4-Bromofluorobenzene(S)	20.17	TIC	1748370	26.18697	ppb	0.00
Spiked Amount 26.339			Recovery =	99.423%		
Target Compounds						Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C35W.D Vial: 1
Acq On : 23 Apr 11 13:54 Operator: RS
Sample : AY36315W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:59 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES024

APPL ID: AY36316

Sample Collection Date: 04/20/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/23/11	04/23/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/23/11	04/23/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/23/11	04/23/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/23/11	04/23/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/23/11	04/23/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/23/11	04/23/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/23/11	04/23/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C38
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES024

APPL ID: AY36316

Sample Collection Date: 04/20/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/23/11	04/23/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	84.4	70-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	89.1	75-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	88.4	85-115			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	90.7	85-120			%	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C38
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C38W.D Vial: 1
Acq On : 23 Apr 11 15:39 Operator: RS
Sample : AY36316W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:35 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.92	96	554432	25.00000 ppb	0.01
35) Chlorobenzene-D5 (IS)	18.10	117	414270	25.00000 ppb	0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	237120	25.00000 ppb	0.00
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.50	111	368291	20.80136 ppb	0.00
Spiked Amount 23.521			Recovery = 88.438%		
23) 1,2-DCA-D4(S)	12.30	65	212713	18.83991 ppb	0.00
Spiked Amount 22.321			Recovery = 84.406%		
36) Toluene-D8(S)	15.58	98	1389877	23.58768 ppb	0.01
Spiked Amount 26.002			Recovery = 90.717%		
44) 4-Bromofluorobenzene(S)	20.17	95	458701	23.46533 ppb	0.00
Spiked Amount 26.339			Recovery = 89.090%		

Target Compounds Qvalue

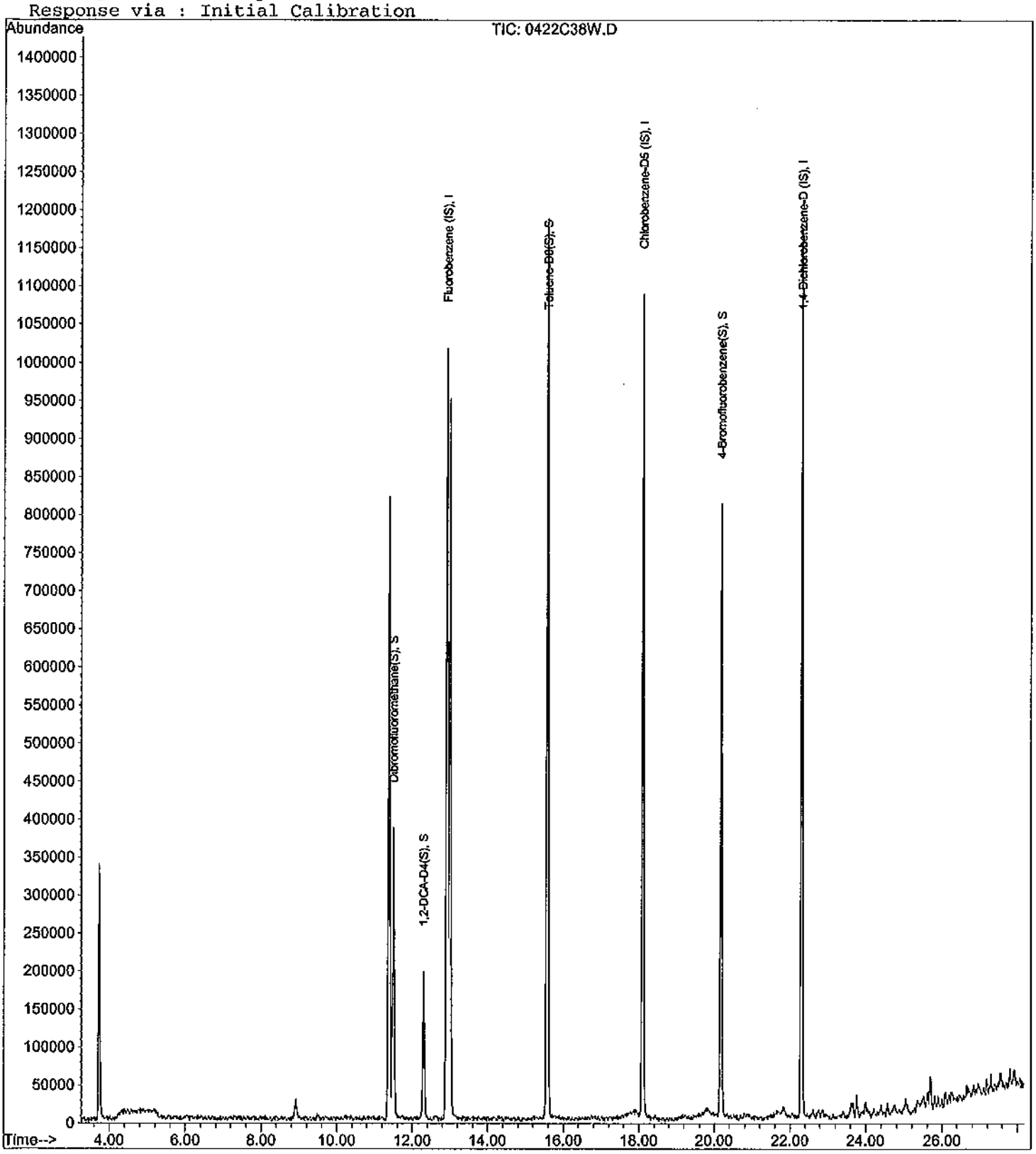
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C38W.D Vial: 1
Acq On : 23 Apr 11 15:39 Operator: RS
Sample : AY36316W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:35 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C38W.D Vial: 1
Acq On : 23 Apr 11 15:39 Operator: RS
Sample : AY36316W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:59 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.92	TIC	1014584	25.00000 ppb	0.01
4) Chlorobenzene-D5 (IS)	18.10	TIC	1082343	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.30	TIC	1167912	25.00000 ppb	0.01
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.50	TIC	1232549	21.88103 ppb	0.01
Spiked Amount 23.521			Recovery =	93.028%	
5) Toluene-D8(S)	15.58	TIC	3603461	26.32829 ppb	0.01
Spiked Amount 26.002			Recovery =	101.254%	
6) 4-Bromofluorobenzene(S)	20.17	TIC	2274062	24.97608 ppb	0.00
Spiked Amount 26.339			Recovery =	94.825%	

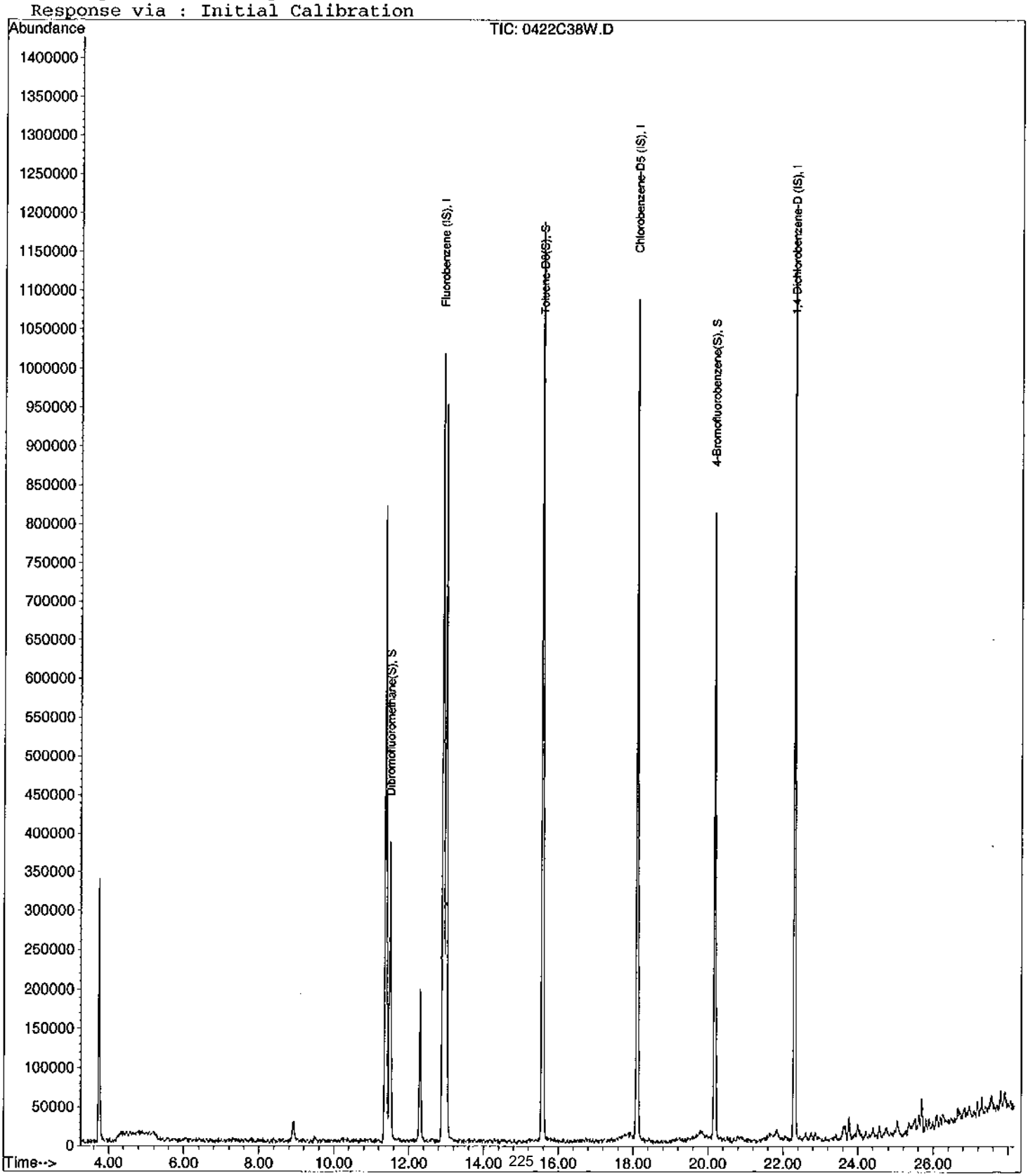
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C38W.D Vial: 1
Acq On : 23 Apr 11 15:39 Operator: RS
Sample : AY36316W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:59 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES025

APPL ID: AY36317

Sample Collection Date: 04/20/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/23/11	04/23/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/23/11	04/23/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/23/11	04/23/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/23/11	04/23/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/23/11	04/23/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/23/11	04/23/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/23/11	04/23/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C39
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES025

APPL ID: AY36317

Sample Collection Date: 04/20/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/23/11	04/23/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	83.9	70-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	89.2	75-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	87.8	85-115			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	89.3	85-120			%	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C39
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C39W.D Vial: 1
Acq On : 23 Apr 11 16:14 Operator: RS
Sample : AY36317W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:56 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	96	551552	25.00000 ppb	0.01
35) Chlorobenzene-D5 (IS)	18.11	117	413184	25.00000 ppb	0.01
51) 1,4-Dichlorobenzene-D (IS)	22.31	152	226112	25.00000 ppb	0.01
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.50	111	363912	20.66135 ppb	0.01
Spiked Amount 23.521			Recovery =	87.843%	
23) 1,2-DCA-D4(S)	12.30	65	210327	18.72586 ppb	0.01
Spiked Amount 22.321			Recovery =	83.896%	
36) Toluene-D8(S)	15.57	98	1363919	23.20799 ppb	0.01
Spiked Amount 26.002			Recovery =	89.255%	
44) 4-Bromofluorobenzene(S)	20.18	95	458120	23.49901 ppb	0.01
Spiked Amount 26.339			Recovery =	89.219%	

Target Compounds Qvalue

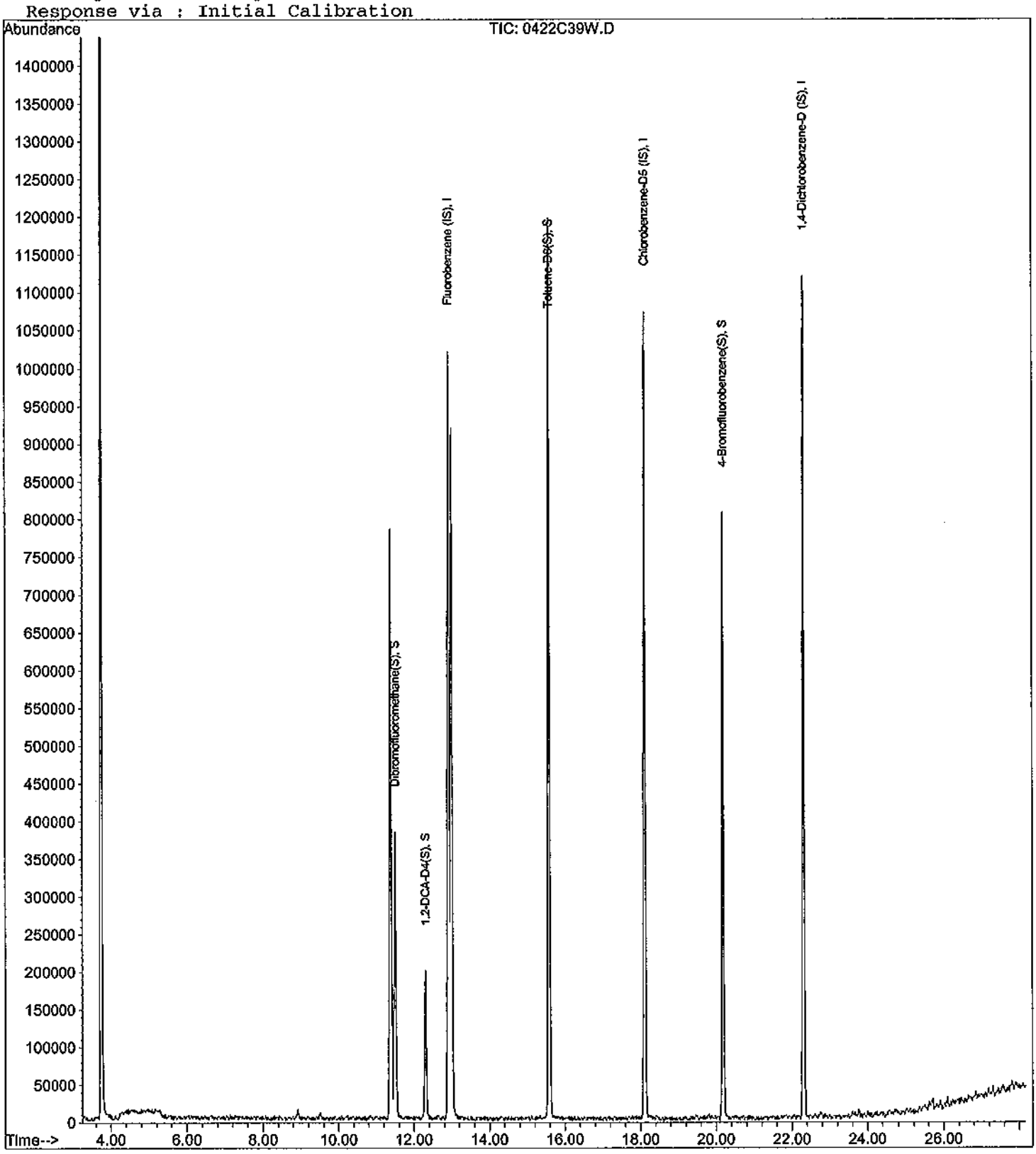
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C39W.D Vial: 1
Acq On : 23 Apr 11 16:14 Operator: RS
Sample : AY36317W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:56 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C39W.D Vial: 1
Acq On : 23 Apr 11 16:14 Operator: RS
Sample : AY36317W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:00 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	TIC	1019550	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.11	TIC	1069956	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.30	TIC	1117380	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.50	TIC	1225142	21.64360 ppb	0.02
Spiked Amount 23.521			Recovery =	92.020%	
5) Toluene-D8(S)	15.57	TIC	3508242	25.92934 ppb	0.00
Spiked Amount 26.002			Recovery =	99.719%	
6) 4-Bromofluorobenzene(S)	20.18	TIC	2283037	25.36495 ppb	0.00
Spiked Amount 26.339			Recovery =	96.302%	

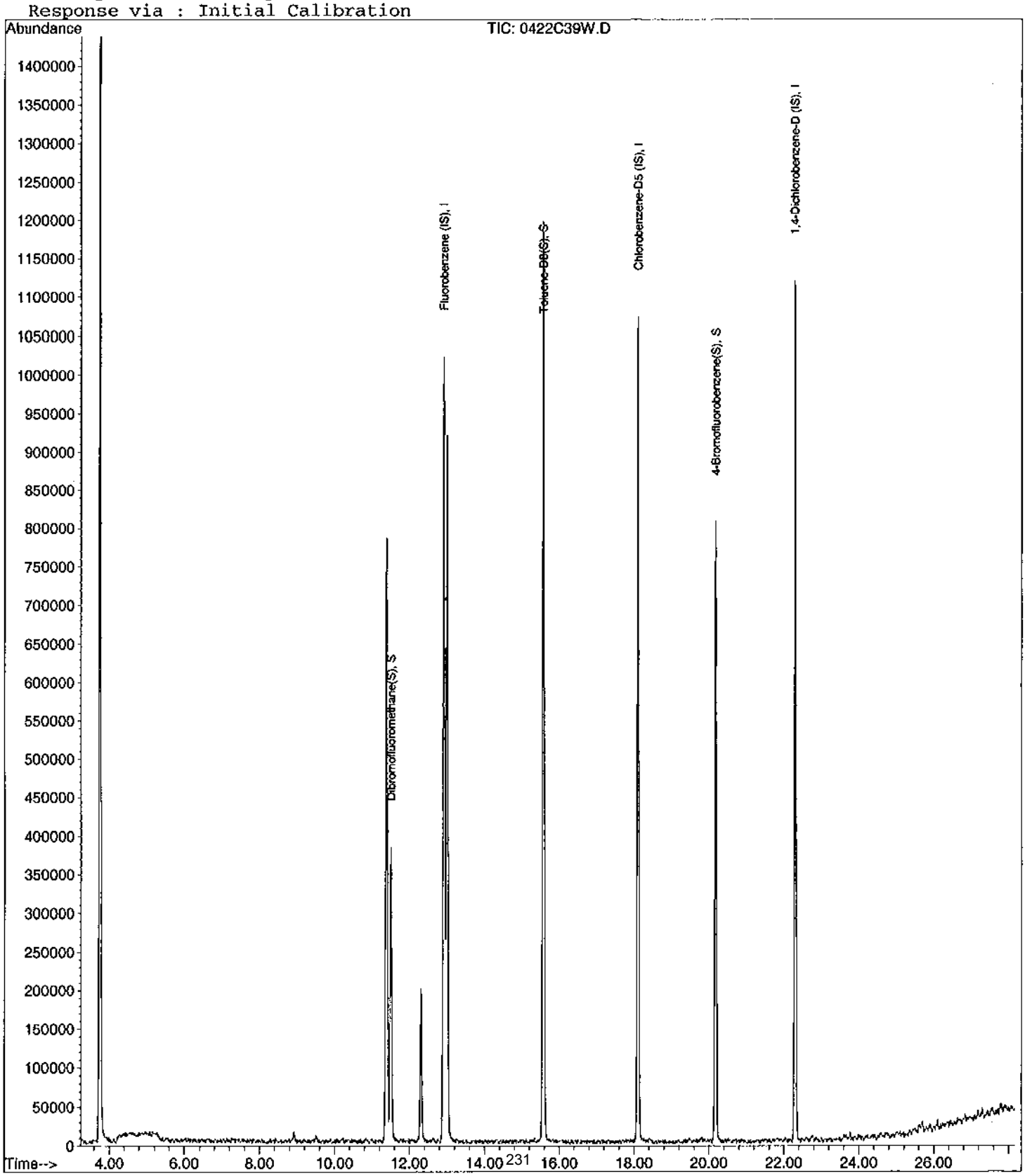
Target Compounds	Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C39W.D Vial: 1
Acq On : 23 Apr 11 16:14 Operator: RS
Sample : AY36317W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 20:00 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES026
Sample Collection Date: 04/20/11

ARF: 64475
APPL ID: AY36318
QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/23/11	04/23/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/23/11	04/23/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/23/11	04/23/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/23/11	04/23/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/23/11	04/23/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/23/11	04/23/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/23/11	04/23/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C31
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES026

APPL ID: AY36318

Sample Collection Date: 04/20/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/23/11	04/23/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	97.4	70-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	94.7	75-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	95.6	85-115			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	89.9	85-120			%	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C31
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C31W.D Vial: 1
Acq On : 23 Apr 11 11:33 Operator: RS
Sample : AY36318W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:43 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	96	411648	25.00000 ppb	0.00
35) Chlorobenzene-D5 (IS)	18.10	117	318464	25.00000 ppb	0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	169984	25.00000 ppb	0.00
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.49	111	295541	22.48229 ppb	0.00
Spiked Amount 23.521			Recovery =	95.585%	
23) 1,2-DCA-D4(S)	12.30	65	182167	21.73086 ppb	0.00
Spiked Amount 22.321			Recovery =	97.358%	
36) Toluene-D8(S)	15.57	98	1058836	23.37549 ppb	0.00
Spiked Amount 26.002			Recovery =	89.898%	
44) 4-Bromofluorobenzene(S)	20.17	95	373515	24.93473 ppb	0.00
Spiked Amount 26.339			Recovery =	94.671%	

Target Compounds Qvalue

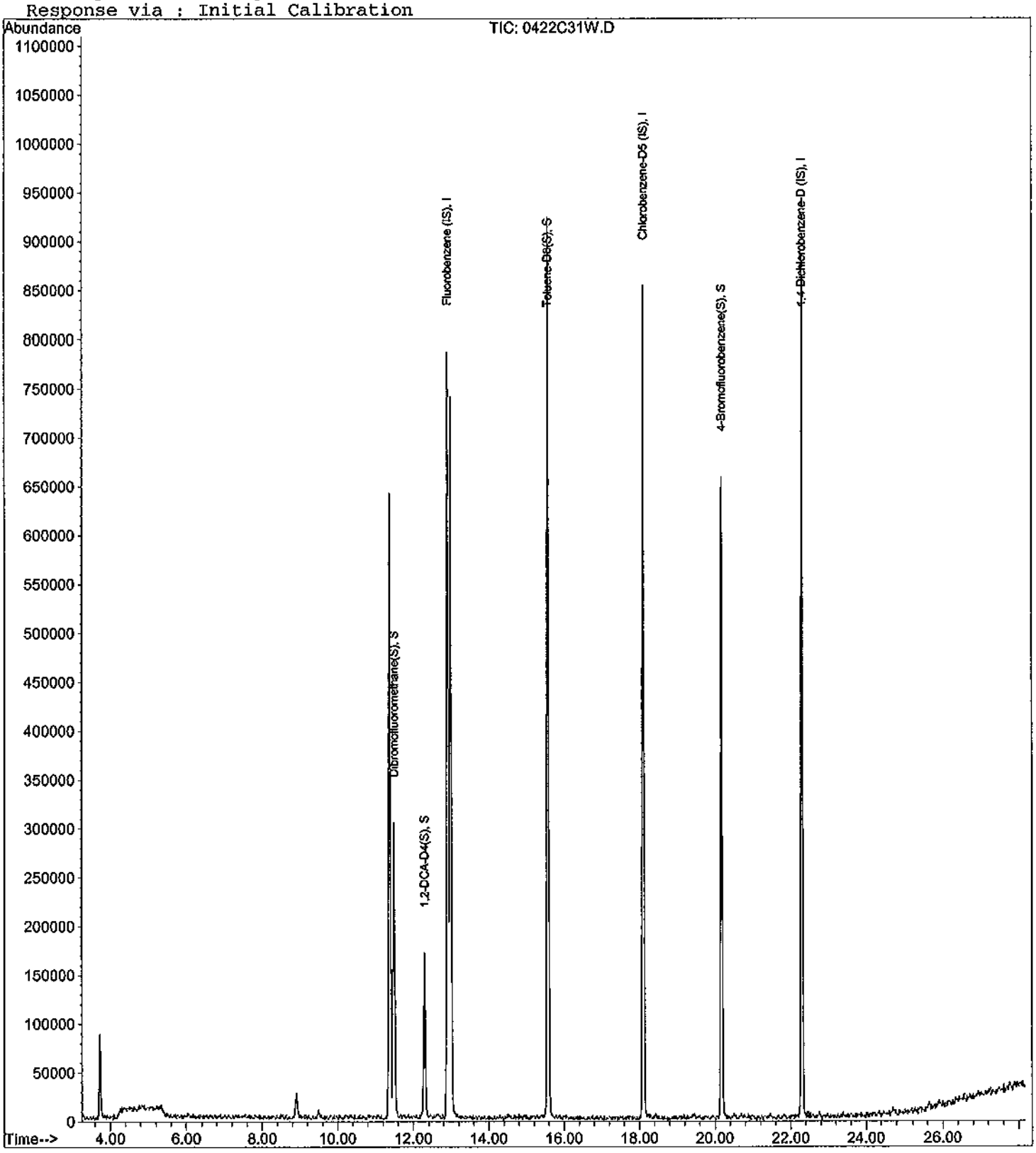
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C31W.D Vial: 1
Acq On : 23 Apr 11 11:33 Operator: RS
Sample : AY36318W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:43 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C31W.D Vial: 1
Acq On : 23 Apr 11 11:33 Operator: RS
Sample : AY36318W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:58 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	785328	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	852601	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	884328	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.49	TIC	987561	22.64980 ppb	0.01
Spiked Amount 23.521			Recovery =	96.297%	
5) Toluene-D8(S)	15.57	TIC	2772663	25.71692 ppb	0.00
Spiked Amount 26.002			Recovery =	98.904%	
6) 4-Bromofluorobenzene(S)	20.17	TIC	1862525	25.96828 ppb	0.00
Spiked Amount 26.339			Recovery =	98.591%	

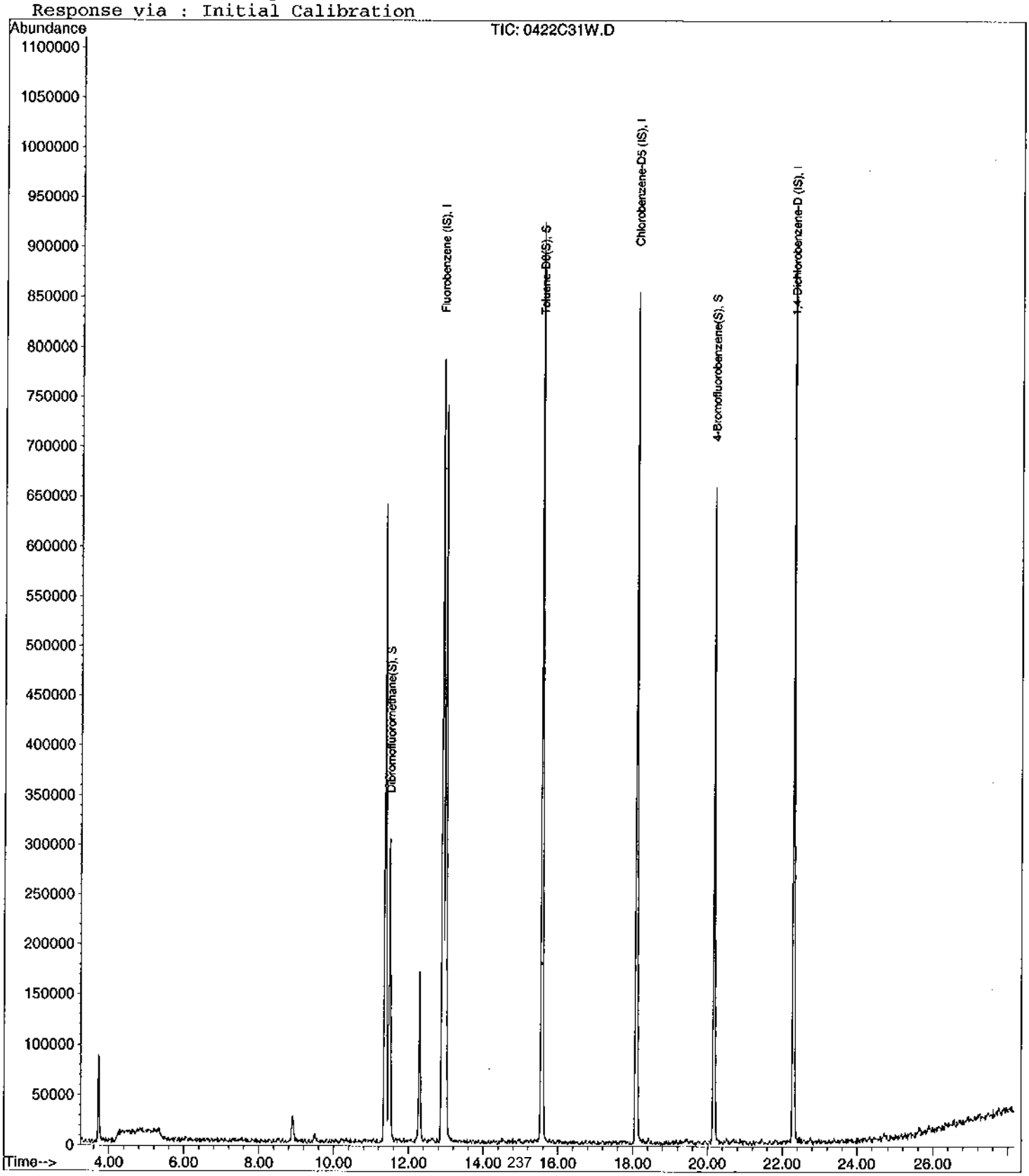
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C31W.D Vial: 1
Acq On : 23 Apr 11 11:33 Operator: RS
Sample : AY36318W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:58 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES027

APPL ID: AY36319

Sample Collection Date: 04/20/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/23/11	04/23/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/23/11	04/23/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/23/11	04/23/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/23/11	04/23/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/23/11	04/23/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/23/11	04/23/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/23/11	04/23/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/23/11	04/23/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/23/11	04/23/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/23/11	04/23/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C32
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES027

APPL ID: AY36319

Sample Collection Date: 04/20/11

QCG: #86RHB-110422AC-155156

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	04/23/11	04/23/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/23/11	04/23/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	100	70-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	98.0	75-120			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	93.4	85-115			%	04/23/11	04/23/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	91.8	85-120			%	04/23/11	04/23/11

Quant Method: C86DODW.M
Run #: 0422C32
Instrument: Chico
Sequence: C110422
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 8:34:02 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C32W.D Vial: 1
Acq On : 23 Apr 11 12:09 Operator: RS
Sample : AY36319W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	96	428096	25.00000 ppb	0.00
35) Chlorobenzene-D5 (IS)	18.10	117	307008	25.00000 ppb	0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	159296	25.00000 ppb	0.00
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.48	111	300287	21.96566 ppb	0.00
Spiked Amount 23.521			Recovery = 93.391%		
23) 1,2-DCA-D4(S)	12.30	65	195094	22.37876 ppb	0.00
Spiked Amount 22.321			Recovery = 100.262%		
36) Toluene-D8(S)	15.57	98	1042114	23.86481 ppb	0.00
Spiked Amount 26.002			Recovery = 91.782%		
44) 4-Bromofluorobenzene(S)	20.17	95	371975	25.80252 ppb	0.00
Spiked Amount 26.339			Recovery = 97.967%		

Target Compounds Qvalue

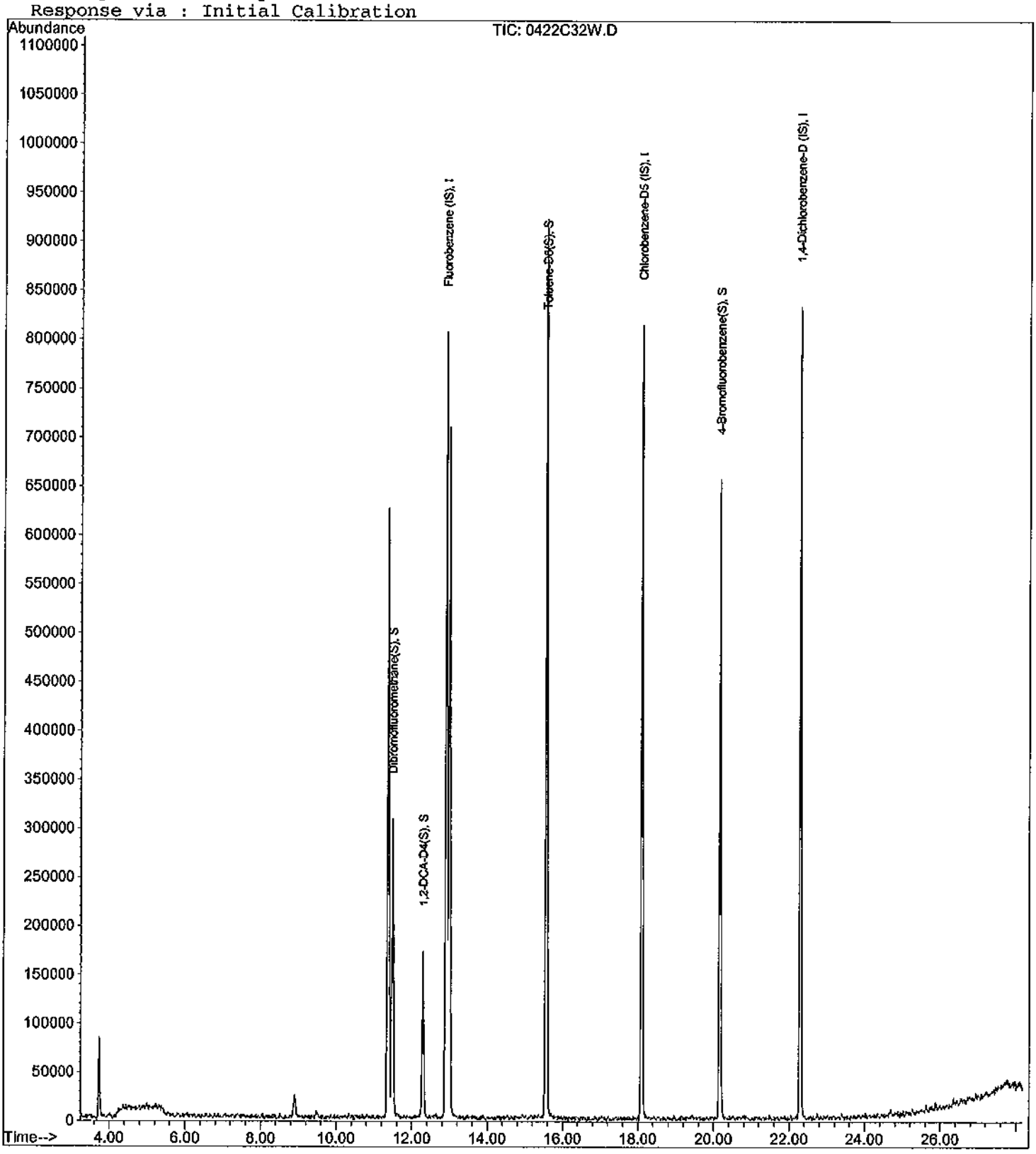
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C32W.D Vial: 1
Acq On : 23 Apr 11 12:09 Operator: RS
Sample : AY36319W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C32W.D Vial: 1
Acq On : 23 Apr 11 12:09 Operator: RS
Sample : AY36319W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:58 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	TIC	804532	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	813916	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	831324	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.48	TIC	986146	22.07748 ppb	0.00
Spiked Amount 23.521			Recovery = 93.861%		
5) Toluene-D8(S)	15.57	TIC	2760361	26.81971 ppb	0.00
Spiked Amount 26.002			Recovery = 103.146%		
6) 4-Bromofluorobenzene(S)	20.17	TIC	1833690	26.78140 ppb	0.00
Spiked Amount 26.339			Recovery = 101.678%		

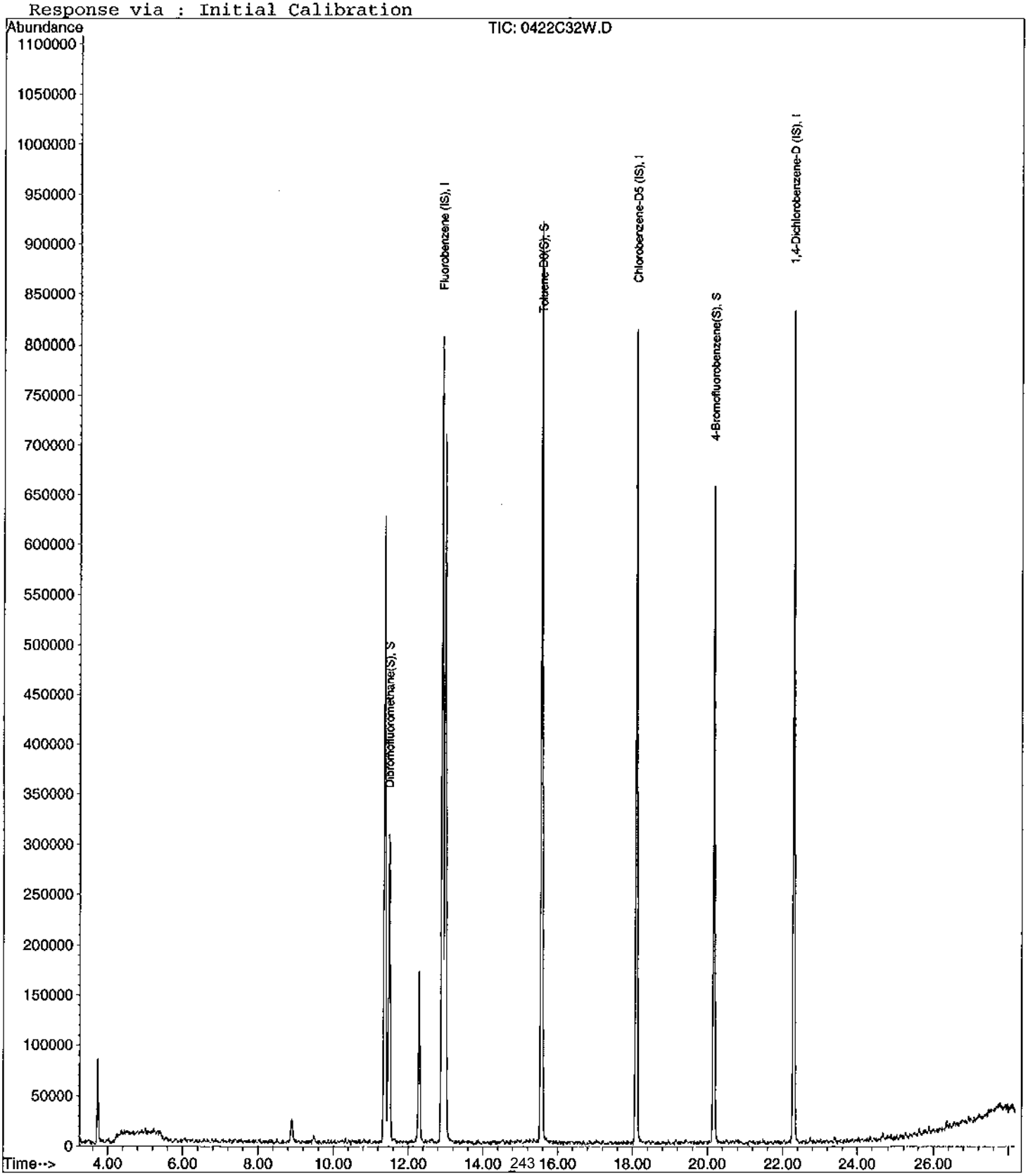
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C32W.D Vial: 1
Acq On : 23 Apr 11 12:09 Operator: RS
Sample : AY36319W01 Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:58 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA METHOD 8260B
Volatile Organic Compounds
Calibration Data

APPL, INC.

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 64475
Case No: Initial Cal. Date: 04/22/11
Matrix: Instrument: Chico
Initials:

		Compound	0422C05W.D	0422C06W.D	0422C07W.D	0422C08W.D	0422C09W.D	0422C10W.D	0422C11W.D	0422C12W.D			Avg	%RSD		
			0.5	1	2	5	10	20	40	100						
1	I	Fluorobenzene (IS)	ISTD													
2	TM	Dichlorodifluoromethane	0.7511	0.8834	0.8372	0.7082	0.7787	0.9423	0.9349	0.8079			0.83	10	TM	
3	TM**	Chloromethane	0.7881	0.7685	0.7133	0.7781	0.7745	0.8422	0.7848	0.7508			0.78	4.7	TM**	
4	TM*	Vinyl chloride	0.2579	0.2484	0.1842	0.2342	0.2216	0.2150	0.1983	0.2097			0.22	11	TM*	
5	TML	Bromomethane	0.1966	0.1487	0.1324	0.1878	0.2036	0.2155	0.2113	0.2016			0.19	16	TML	0.999
6	TM	Chloroethane	0.4912	0.4894	0.5523	0.5689	0.5057	0.5259	0.4910	0.4644			0.51	6.9	TM	
7	TM	Trichlorofluoromethane	0.9114	1.104	1.015	1.050	1.079	1.166	1.091	0.9854			1.1	7.5	TM	
8	TML	Acetone	0.1638	0.1068	0.0749	0.0642	0.0531	0.0470	0.0442	0.0414			0.07	56	TML	0.999
9	TM*	1,1-DCE	0.5136	0.5710	0.4552	0.4887	0.4779	0.5062	0.4702	0.4523			0.49	7.9	TM*	
10	TML	Methylene chloride	0.6288	0.6660	0.5454	0.5651	0.5026	0.5136	0.4580	0.4432			0.57	22	TML	0.999
11	TM	Carbon disulfide	1.653	1.784	1.662	2.246	2.198	2.356	2.184	2.107			2.0	14	TM	
12	TM	Methyl t-butyl ether (MtBE)	0.7832	0.8713	0.7656	0.9016	0.8447	0.8905	0.8161	0.7995			0.83	6.1	TM	
13	TML	Trans-1,2-DCE	0.8102	0.5838	0.5381	0.5815	0.5304	0.5818	0.5307	0.5346			0.59	16	TML	1.000
14	TM**	1,1-DCA	1.153	1.037	0.9644	1.104	0.9937	1.049	0.9481	0.9012			1.0	8.2	TM**	
15	TM	MEK (2-Butanone)		0.2196	0.1892	0.2114	0.1945	0.2028	0.1750	0.1646			0.19	10	TM	
16	TM	Cis-1,2-DCE	0.8105	0.7800	0.6856	0.7742	0.7170	0.7345	0.6745	0.6451			0.73	7.9	TM	
17	TM	2,2-Dichloropropane	1.030	1.024	1.003	0.9660	0.9124	0.9416	0.8479	0.8101			0.94	8.6	TM	
18	TM*	Chloroform	1.061	1.152	1.021	1.216	1.114	1.153	1.047	1.006			1.1	6.8	TM*	
19	TM	Bromochloromethane	0.2497	0.2400	0.2234	0.2523	0.2452	0.2634	0.2407	0.2351			0.24	4.9	TM	
20	S	Dibromofluoromethane(S)	0.9508	0.9357	0.8784	0.7826	0.7184	0.7541	0.6852	0.6816			0.80	14	S	
21	TM	1,1,1-TCA	1.179	1.078	0.9585	1.104	1.075	1.120	1.026	0.9740			1.1	7.0	TM	
22	TM	1,1-Dichloropropene	0.6816	0.7392	0.7140	0.6908	0.6902	0.7237	0.6789	0.6360			0.69	4.6	TM	
23	S	1,2-DCA-D4(S)	0.6091	0.5914	0.5896	0.5033	0.4542	0.4804	0.4242	0.4207			0.51	15	S	
24	TM	Carbon Tetrachloride	0.9570	0.9839	0.8852	0.9512	0.9389	0.9840	0.9148	0.8508			0.93	5.0	TM	
25	TM	1,2-DCA	0.4414	0.4105	0.4832	0.5238	0.4650	0.4904	0.4419	0.4206			0.46	8.3	TM	
26	TM	Benzene	2.239	2.223	2.104	2.250	2.061	2.169	1.994	1.955			2.1	5.4	TM	
27	TM	TCE	0.6890	0.7358	0.7035	0.6963	0.6918	0.7464	0.6810	0.6456			0.70	4.5	TM	
28	TM*	1,2-Dichloropropane	0.6033	0.5459	0.4811	0.5528	0.4981	0.5326	0.4854	0.4718			0.52	8.7	TM*	
29	TM	Bromodichloromethane	0.8143	0.7133	0.7100	0.8089	0.7113	0.7482	0.7110	0.6859			0.74	6.6	TM	
30	TM	Dibromomethane	0.2585	0.2640	0.2018	0.2716	0.2587	0.2751	0.2463	0.2397			0.25	9.3	TM	
31	TM	Cis-1,3-Dichloropropene	0.7855	0.7368	0.6974	0.7989	0.7243	0.7569	0.7107	0.7033			0.74	5.1	TM	
32	TM*	Toluene	1.540	1.690	1.540	1.669	1.516	1.618	1.480	1.452			1.6	5.6	TM*	
33	TM	Trans-1,3-Dichloropropene	0.5881	0.5682	0.5095	0.5711	0.5473	0.5746	0.5348	0.5242			0.55	5.0	TM	
34	TM	1,1,2-TCA	0.2135	0.2585	0.2447	0.2731	0.2529	0.2672	0.2457	0.2464			0.25	7.2	TM	
35	I	Chlorobenzene-D5 (IS)	ISTD													

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

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

SDG No: Q4475
Initial Cal. Date: 04/22/11
Instrument: Chico

Initials:

		Compound	0.5	1	2	5	10	20	40	100			Avg	%RSD		
36	S	Toluene-D8(S)	4.140	4.009	4.215	3.360	3.264	3.213	3.102	3.143			3.6	13	S	
37	TM	1,2-EDB	0.4724	0.3780	0.4332	0.4685	0.4522	0.4357	0.4368	0.4453			0.44	6.6	TM	
38	TM	Tetrachloroethene	0.9067	0.9001	0.8915	0.8683	0.9259	0.8526	0.8520	0.8266			0.88	3.8	TM	
39	TM	1-Chlorohexane	1.554	1.485	1.272	1.341	1.344	1.366	1.370	1.343			1.4	6.5	TM	
40	TM	1,1,1,2-Tetrachloroethane	0.8482	0.9284	0.9181	0.9380	0.9023	0.9140	0.8782	0.8728			0.90	3.4	TM	
41	TM	m&p-Xylene	1.846	1.752	1.758	1.816	1.758	1.722	1.669	1.646			1.7	3.9	TM	
42	TM	o-Xylene	1.698	1.766	1.599	1.845	1.775	1.773	1.668	1.646			1.7	4.8	TM	
43	TM	Styrene	1.531	1.332	1.122	1.330	1.299	1.266	1.172	1.113			1.3	11	TM	
44	SL	4-Bromofluorobenzene(S)	1.999	1.720	1.516	1.230	1.189	1.196	1.124				1.4	23	SL	0.999
45	TM	2-Hexanone	0.1372	0.1221	0.1268	0.1361	0.1262	0.1312	0.1265	0.1272			0.13	4.1	TM	
46	TM	1,3-Dichloropropane	0.7256	0.6902	0.6716	0.7780	0.6994	0.7050	0.7032	0.6981			0.71	4.5	TM	
47	TM	Dibromochloromethane	0.6442	0.7197	0.6495	0.7546	0.7052	0.6954	0.6747	0.6889			0.69	5.3	TM	
48	TM**	Chlorobenzene	2.691	2.480	2.484	2.669	2.575	2.503	2.437	2.386			2.5	4.3	TM**	
49	TM*	Ethylbenzene	4.510	4.351	4.235	4.354	4.311	4.221	4.073	4.036			4.3	3.6	TM*	
50	TM**	Bromoform	0.3839	0.4029	0.3732	0.4208	0.4237	0.4299	0.4154	0.4184			0.41	5.0	TM**	
51	I	1,4-Dichlorobenzene-D (IS)	ISTD													
52	TM	MIBK (methyl isobutyl ketone)	0.4286	0.5151	0.4852	0.4155	0.3700	0.3790	0.3519	0.3772			0.42	14	TM	
53	TM	Isopropylbenzene	8.823	8.575	8.724	8.922	8.798	8.382	8.026	8.213			8.6	3.7	TM	
54	TM**	1,1,2,2-Tetrachloroethane	0.6823	0.7362	0.6557	0.7673	0.6986	0.6941	0.6753	0.7104			0.70	5.1	TM**	
55	TM	1,2,3-Trichloropropane	0.1832	0.1719	0.2355	0.2672	0.2288	0.2255	0.2249	0.2242			0.22	14	TM	
56	TM	Bromobenzene	2.475	2.278	2.013	2.054	2.007	1.884	1.827	1.873			2.1	11	TM	
57	TM	n-Propylbenzene	10.2	9.697	9.765	9.877	9.753	9.373	9.067	9.143			9.6	4.0	TM	
58	TM	2-Chlorotoluene	6.722	6.698	6.581	6.766	6.514	6.010	5.771	5.875			6.4	6.5	TM	
59	TM	1,3,5-Trimethylbenzene	6.446	7.304	6.753	7.162	6.971	6.425	6.347	6.436			6.7	5.6	TM	
60	TM	4-Chlorotoluene	6.336	6.140	5.326	5.570	5.431	5.305	4.955	5.009			5.5	9.0	TM	
61	TM	Tert-Butylbenzene	7.412	7.802	7.156	7.510	7.699	7.368	7.005	7.128			7.4	3.8	TM	
62	TM	1,2,4-Trimethylbenzene	6.965	7.158	6.676	7.267	6.922	6.653	6.275	6.443			6.8	5.1	TM	
63	TM	Sec-Butylbenzene	10.1	9.906	9.435	9.617	9.555	9.424	9.010	9.083			9.5	3.8	TM	
64	TM	p-Isopropyltoluene	8.504	8.110	7.626	7.978	8.062	7.806	7.483	7.615			7.9	4.2	TM	
65	TM	1,3-DCB	4.929	4.372	4.009	4.371	4.177	4.018	3.857	3.881			4.2	8.4	TM	
66	TM	1,4-DCB	3.930	3.922	3.705	3.994	3.924	3.772	3.619	3.676			3.8	3.7	TM	
67	TM	n-Butylbenzene	7.864	6.895	6.447	6.547	6.571	6.440	6.113	6.122			6.6	8.5	TM	
68	TM	1,2-DCB	3.584	3.518	3.265	3.496	3.438	3.302	3.111	3.180			3.4	5.1	TM	
69	TM	1,2-Dibromo-3-chloropropane		0.2314	0.1595	0.2142	0.1658	0.1766	0.1703	0.1903			0.19	14	TM	
70	TM	1,2,4-Trichlorobenzene	1.455	1.239	1.081	1.209	1.133	1.141	1.070	1.046			1.2	11	TM	

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

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

SDG No: 64475
Initial Cal. Date: 04/22/11
Instrument: Chico

Initials:

		Compound	0.5	1	2	5	10	20	40	100			Avg	%RSD		
71	TM	Hexachlorobutadiene	0.7330	0.6240	0.6039	0.5873	0.5280	0.5409	0.4929	0.4959			0.58	14	TM	
72	TM	Naphthalene	1.380	1.300	1.212	1.270	1.192	1.203	1.152	1.228			1.2	5.8	TM	
73	TM	1,2,3-Trichlorobenzene	2.880	2.429	2.238	2.306	2.266	2.264	2.112	2.177			2.3	10	TM	
74																
75																
76																
77																
78																
79																
80																
81																
82																
83																
84																
85																
86																
87																
88																
89																
90																
91																
92																
93																
94																
95																
96																
97																
98																
99																
100																
101																
102																
103																
104																
105																

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C04W.D Vial: 1
Acq On : 22 Apr 11 18:01 Operator: RS
Sample : Vol Std 04-22-11@0.3ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	416768	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	318912	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	185024	25.00000 ppb		-0.01
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.49	111	9178	0.71862 ppb		0.00
Spiked Amount 23.521			Recovery = 3.057%			
23) 1,2-DCA-D4(S)	12.29	65	6266	0.71182 ppb		0.00
Spiked Amount 22.321			Recovery = 3.190%			
36) Toluene-D8(S)	15.56	98	30563	0.70966 ppb		0.00
Spiked Amount 26.002			Recovery = 2.731%			
44) 4-Bromofluorobenzene(S)	20.17	95	19990	1.21850 ppb		0.00
Spiked Amount 26.339			Recovery = 4.624%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	3918	0.21726 ppb		84
3) Chloromethane	4.60	50	7629	0.45047 ppb		89
4) Vinyl chloride	4.87	62	2268	0.51606 ppb		95
5) Bromomethane	5.78	94	1667	0.49389 ppb	#	68
6) Chloroethane	5.97	64	5956	0.61889 ppb	#	77
7) Trichlorofluoromethane	6.60	101	5202	0.25201 ppb	#	60
8) Acetone	7.36	43	1723	1.20983 ppb		93
9) 1,1-DCE	7.74	96	4662	0.53522 ppb	#	84
10) Methylene chloride	8.54	84	5734	-0.38465 ppb		89
11) Carbon disulfide	8.63	76	14811	0.36904 ppb		98
12) Methyl t-butyl ether (MtBE	8.97	73	4566	0.30609 ppb	#	72
13) Trans-1,2-DCE	9.16	96	5313	0.54010 ppb	#	77
14) 1,1-DCA	9.86	63	6357	0.36895 ppb	#	90
15) MEK (2-Butanone)	10.51	43	1502	0.39573 ppb	#	80
16) Cis-1,2-DCE	10.88	96	5702	0.46202 ppb		79
17) 2,2-Dichloropropane	10.87	77	6662	0.38428 ppb	#	84
18) Chloroform	11.15	83	6388	0.32561 ppb		91
19) Bromochloromethane	11.38	128	1037	0.24807 ppb	#	1
21) 1,1,1-TCA	11.91	97	6308	0.32934 ppb		91
22) 1,1-Dichloropropene	12.18	75	5143	0.41588 ppb	#	87
24) Carbon Tetrachloride	12.37	117	5568	0.31457 ppb	#	78
25) 1,2-DCA	12.45	62	2920	0.33684 ppb	#	73
26) Benzene	12.57	78	14066	0.39791 ppb	#	94
27) TCE	13.60	95	4300	0.36979 ppb		86
28) 1,2-Dichloropropane	13.82	63	3155	0.38593 ppb	#	81
29) Bromodichloromethane	14.17	83	4033	0.30368 ppb	#	80
30) Dibromomethane	14.24	93	1043	0.23337 ppb		88
31) Cis-1,3-Dichloropropene	15.06	75	3909	0.31397 ppb		92
32) Toluene	15.70	92	10020	0.39346 ppb		95
33) Trans-1,3-Dichloropropene	15.85	75	3288	0.34440 ppb		95
34) 1,1,2-TCA	16.14	83	593	0.13730 ppb	#	49
37) 1,2-EDB	17.37	107	1912	0.33131 ppb	#	77
38) Tetrachloroethene	16.85	164	3918	0.34500 ppb	#	84
39) 1-Chlorohexane	17.76	91	6594	0.36901 ppb		94
40) 1,1,1,2-Tetrachloroethane	18.20	131	3548	0.29405 ppb		83
41) m&p-Xylene	18.42	106	17654	0.77218 ppb		82
42) o-Xylene	19.16	106	8421	0.37483 ppb		99
43) Styrene	19.17	78	8041	0.45964 ppb		71
45) 2-Hexanone	16.15	43	731	0.39378 ppb	#	35

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C04W.D Vial: 1
Acq On : 22 Apr 11 18:01 Operator: RS
Sample : Vol Std 04-22-11@0.3ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.54	76	2618	0.28235	ppb	#	67
47)	Dibromochloromethane	17.01	129	3112	0.33914	ppb		76
48)	Chlorobenzene	18.18	112	11497	0.35047	ppb	#	82
49)	Ethylbenzene	18.27	91	21489	0.38075	ppb		98
50)	Bromoform	19.70	173	1479	0.26958	ppb		83
52)	MIBK (methyl isobutyl keto	14.73	43	1461	0.49153	ppb	#	65
53)	Isopropylbenzene	19.79	105	21426	0.35139	ppb		100
54)	1,1,2,2-Tetrachloroethane	19.96	83	1811	0.36654	ppb	#	87
55)	1,2,3-Trichloropropane	20.21	110	816	0.47623	ppb	#	27
56)	Bromobenzene	20.53	156	6213	0.43241	ppb	#	69
57)	n-Propylbenzene	20.50	91	28004	0.40507	ppb		96
58)	2-Chlorotoluene	20.79	91	18616	0.40615	ppb		82
59)	1,3,5-Trimethylbenzene	20.77	105	18791	0.38826	ppb		90
60)	4-Chlorotoluene	20.87	91	18466	0.46613	ppb	#	72
61)	Tert-Butylbenzene	21.42	119	20679	0.38774	ppb	#	94
62)	1,2,4-Trimethylbenzene	21.46	105	19007	0.38690	ppb		99
63)	Sec-Butylbenzene	21.81	105	26733	0.39094	ppb		88
64)	p-Isopropyltoluene	22.05	119	23884	0.41613	ppb		92
65)	1,3-DCB	22.17	146	13342	0.44846	ppb		86
66)	1,4-DCB	22.35	146	10562	0.37864	ppb	#	74
67)	n-Butylbenzene	22.75	91	22220	0.46616	ppb		94
68)	1,2-DCB	22.98	146	9954	0.41686	ppb		91
69)	1,2-Dibromo-3-chloropropan	24.19	157	319	0.24513	ppb		80
70)	1,2,4-Trichlorobenzene	25.63	180	3894	0.45349	ppb		97
71)	Hexachlorobutadiene	25.89	223	2311	0.55182	ppb		78
72)	Naphthalene	25.98	128	3726	0.41696	ppb		94
73)	1,2,3-Trichlorobenzene	26.34	180	8120	0.46396	ppb		98

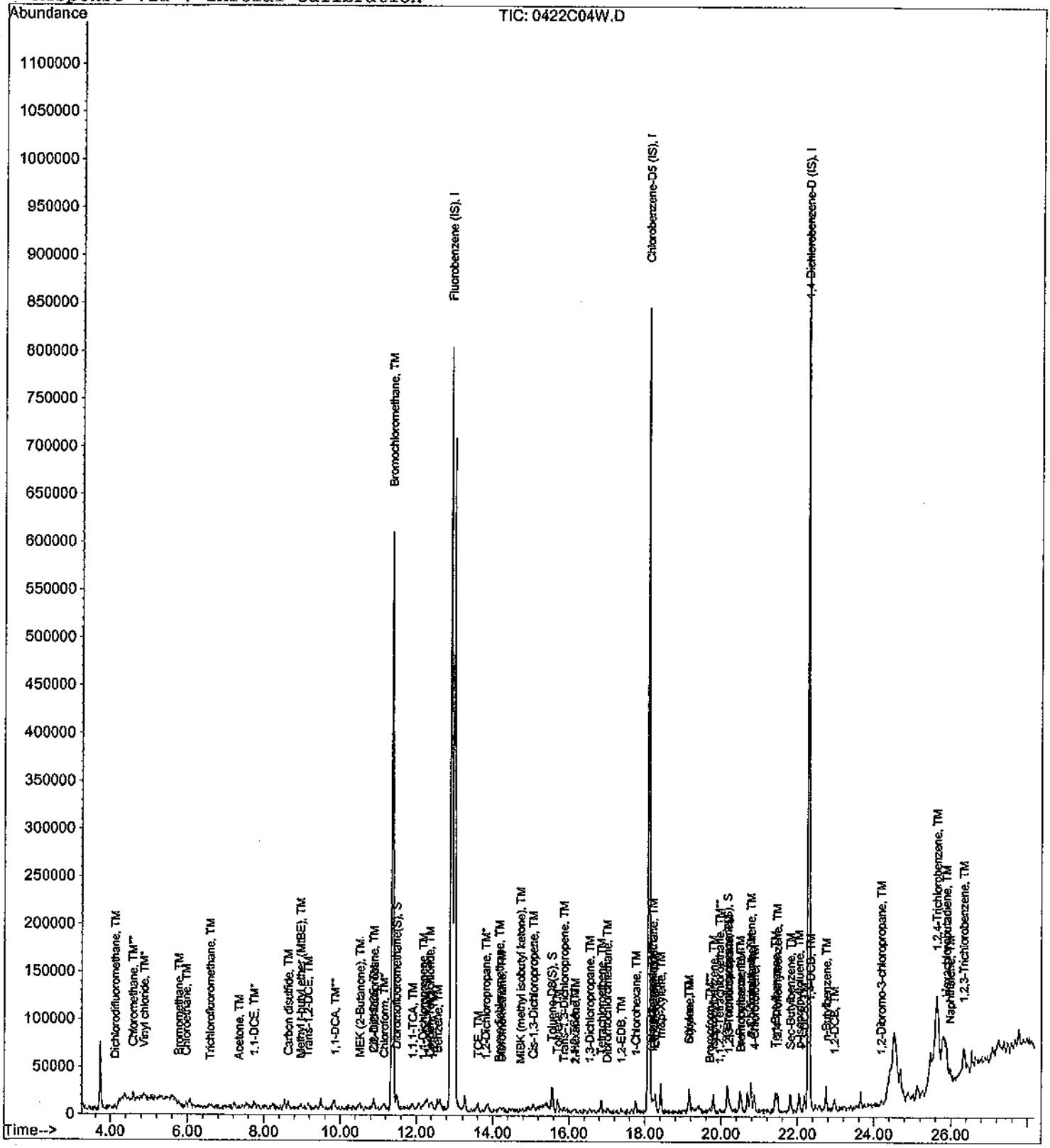
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C04W.D Vial: 1
Acq On : 22 Apr 11 18:01 Operator: RS
Sample : Vol Std 04-22-11@0.3ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C05W.D Vial: 1
Acq On : 22 Apr 11 18:36 Operator: RS
Sample : Vol Std 04-22-11@0.5ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	414272	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.09	117	323264	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	182336	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.49	111	15755	1.24102 ppb		0.00
Spiked Amount 23.521			Recovery =	5.276%		
23) 1,2-DCA-D4(S)	12.29	65	10093	1.15348 ppb		0.00
Spiked Amount 22.321			Recovery =	5.166%		
36) Toluene-D8(S)	15.57	98	53536	1.22635 ppb		0.00
Spiked Amount 26.002			Recovery =	4.715%		
44) 4-Bromofluorobenzene(S)	20.16	95	25843	1.55406 ppb		0.00
Spiked Amount 26.339			Recovery =	5.900%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	6223	0.34716 ppb		83
3) Chloromethane	4.61	50	6530	0.38790 ppb		93
4) Vinyl chloride	4.88	62	2137	0.48918 ppb	#	82
5) Bromomethane	5.79	94	1629	0.48554 ppb	#	36
6) Chloroethane	5.97	64	4070	0.42546 ppb	#	59
7) Trichlorofluoromethane	6.58	101	7551	0.36802 ppb	#	74
8) Acetone	7.34	43	1357	0.77850 ppb	#	33
9) 1,1-DCE	7.73	96	4255	0.49144 ppb	#	62
10) Methylene chloride	8.54	84	6867	-0.22750 ppb		80
11) Carbon disulfide	8.62	76	13695	0.34328 ppb		99
12) Methyl t-butyl ether (MtBE	8.95	73	6489	0.43762 ppb	#	87
13) Trans-1,2-DCE	9.17	96	6713	0.68653 ppb		84
14) 1,1-DCA	9.85	63	9557	0.55801 ppb	#	87
15) MEK (2-Butanone)	10.51	43	2263	0.59982 ppb	#	80
16) Cis-1,2-DCE	10.88	96	6715	0.54738 ppb	#	80
17) 2,2-Dichloropropane	10.88	77	8532	0.49512 ppb		95
18) Chloroform	11.15	83	8793	0.45090 ppb		92
19) Bromochloromethane	11.38	128	2069	0.49793 ppb	#	45
21) 1,1,1-TCA	11.90	97	9767	0.51301 ppb		98
22) 1,1-Dichloropropene	12.16	75	5647	0.45939 ppb	#	83
24) Carbon Tetrachloride	12.36	117	7929	0.45065 ppb	#	83
25) 1,2-DCA	12.44	62	3657	0.42439 ppb	#	73
26) Benzene	12.56	78	18551	0.52794 ppb		94
27) TCE	13.60	95	5709	0.49392 ppb		83
28) 1,2-Dichloropropane	13.83	63	4999	0.61517 ppb	#	81
29) Bromodichloromethane	14.17	83	6747	0.51111 ppb	#	77
30) Dibromomethane	14.23	93	2142	0.48216 ppb	#	59
31) Cis-1,3-Dichloropropene	15.08	75	6508	0.52587 ppb	#	78
32) Toluene	15.70	92	12760	0.50407 ppb		76
33) Trans-1,3-Dichloropropene	15.86	75	4873	0.51350 ppb		85
34) 1,1,2-TCA	16.13	83	1769	0.41205 ppb		78
37) 1,2-EDB	17.40	107	3054	0.52207 ppb	#	69
38) Tetrachloroethene	16.85	164	5862	0.50924 ppb		89
39) 1-Chlorohexane	17.77	91	10048	0.55474 ppb		91
40) 1,1,1,2-Tetrachloroethane	18.22	131	5484	0.44838 ppb		88
41) m&p-Xylene	18.41	106	23876	1.03027 ppb		98
42) o-Xylene	19.15	106	10979	0.48211 ppb		69
43) Styrene	19.17	78	9899	0.55823 ppb		77
45) 2-Hexanone	16.15	43	887	0.47138 ppb		88

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C05W.D Vial: 1
Acq On : 22 Apr 11 18:36 Operator: RS
Sample : Vol Std 04-22-11@0.5ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46) 1,3-Dichloropropane	16.56	76	4691	0.49910 ppb		89
47) Dibromochloromethane	17.03	129	4165	0.44778 ppb		97
48) Chlorobenzene	18.15	112	17399	0.52325 ppb		97
49) Ethylbenzene	18.27	91	29160	0.50971 ppb		100
50) Bromoform	19.69	173	2482	0.44631 ppb		95
52) MIBK (methyl isobutyl keto	14.74	43	1563	0.53360 ppb		84
53) Isopropylbenzene	19.79	105	32175	0.53545 ppb		93
54) 1,1,2,2-Tetrachloroethane	19.93	83	2488	0.51098 ppb	#	83
55) 1,2,3-Trichloropropane	20.20	110	668	0.39560 ppb		88
56) Bromobenzene	20.53	156	9026	0.63745 ppb		85
57) n-Propylbenzene	20.50	91	37112	0.54473 ppb		89
58) 2-Chlorotoluene	20.79	91	24512	0.54267 ppb		94
59) 1,3,5-Trimethylbenzene	20.77	105	23506	0.49284 ppb		84
60) 4-Chlorotoluene	20.88	91	23107	0.59188 ppb		91
61) Tert-Butylbenzene	21.41	119	27029	0.51427 ppb		95
62) 1,2,4-Trimethylbenzene	21.47	105	25401	0.52467 ppb		92
63) Sec-Butylbenzene	21.81	105	36750	0.54535 ppb		93
64) p-Isopropyltoluene	22.04	119	31010	0.54825 ppb		94
65) 1,3-DCB	22.18	146	17976	0.61312 ppb		88
66) 1,4-DCB	22.35	146	14331	0.52133 ppb		99
67) n-Butylbenzene	22.75	91	28677	0.61049 ppb		93
68) 1,2-DCB	22.98	146	13071	0.55546 ppb	#	84
69) 1,2-Dibromo-3-chloropropan	24.18	157	219	0.17076 ppb	#	76
70) 1,2,4-Trichlorobenzene	25.62	180	5307	0.62716 ppb		79
71) Hexachlorobutadiene	25.88	223	2673	0.64767 ppb		91
72) Naphthalene	25.98	128	5032	0.57140 ppb	#	87
73) 1,2,3-Trichlorobenzene	26.34	180	10502	0.60891 ppb	#	80

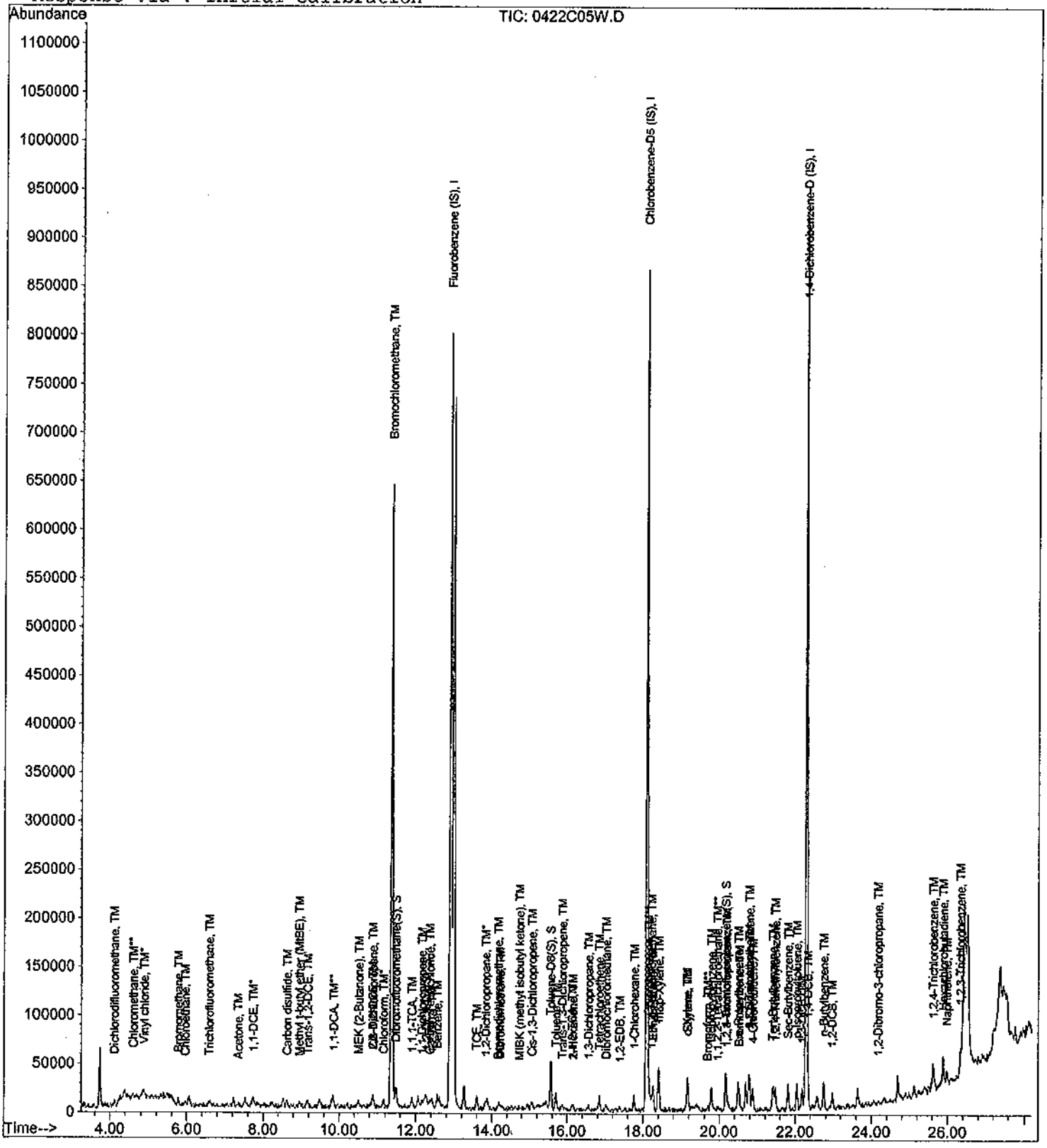
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C05W.D Vial: 1
Acq On : 22 Apr 11 18:36 Operator: RS
Sample : Vol Std 04-22-11@0.5ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C06W.D Vial: 1
Acq On : 22 Apr 11 19:11 Operator: RS
Sample : Vol Std 04-22-11@1.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	415040	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	331392	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	182400	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	31068	2.44269 ppb		0.00
Spiked Amount 23.521			Recovery	= 10.387%		
23) 1,2-DCA-D4(S)	12.30	65	19636	2.23995 ppb		0.00
Spiked Amount 22.321			Recovery	= 10.036%		
36) Toluene-D8(S)	15.56	98	106288	2.37503 ppb		0.00
Spiked Amount 26.002			Recovery	= 9.134%		
44) 4-Bromofluorobenzene(S)	20.17	95	45602	2.67501 ppb		0.00
Spiked Amount 26.339			Recovery	= 10.156%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	14666	0.81666 ppb		99
3) Chloromethane	4.60	50	12759	0.75652 ppb		99
4) Vinyl chloride	4.88	62	4124	0.94228 ppb		90
5) Bromomethane	5.79	94	2468	0.73425 ppb		74
6) Chloroethane	5.98	64	8125	0.84779 ppb		88
7) Trichlorofluoromethane	6.59	101	18320	0.89122 ppb		84
8) Acetone	7.36	43	1773	1.27900 ppb		99
9) 1,1-DCE	7.74	96	9479	1.09277 ppb		96
10) Methylene chloride	8.54	84	11057	0.33380 ppb		87
11) Carbon disulfide	8.63	76	29622	0.74114 ppb		93
12) Methyl t-butyl ether (MtBE	8.98	73	14465	0.97371 ppb	#	78
13) Trans-1,2-DCE	9.17	96	9692	0.98936 ppb		96
14) 1,1-DCA	9.85	63	17224	1.00381 ppb		95
15) MEK (2-Butanone)	10.50	43	3646	0.96460 ppb	#	80
16) Cis-1,2-DCE	10.88	96	12950	1.05367 ppb		94
17) 2,2-Dichloropropane	10.87	77	16995	0.98440 ppb		98
18) Chloroform	11.16	83	19127	0.97900 ppb		92
19) Bromochloromethane	11.39	128	3984	0.95702 ppb		82
21) 1,1,1-TCA	11.91	97	17894	0.93814 ppb		93
22) 1,1-Dichloropropene	12.18	75	12272	0.99649 ppb		92
24) Carbon Tetrachloride	12.36	117	16334	0.92664 ppb	#	81
25) 1,2-DCA	12.43	62	6815	0.78941 ppb	#	61
26) Benzene	12.57	78	36903	1.04827 ppb		93
27) TCE	13.60	95	12216	1.05492 ppb		92
28) 1,2-Dichloropropane	13.83	63	9062	1.11310 ppb	#	85
29) Bromodichloromethane	14.18	83	11842	0.89541 ppb		97
30) Dibromomethane	14.22	93	4382	0.98456 ppb	#	63
31) Cis-1,3-Dichloropropene	15.07	75	12232	0.98656 ppb		92
32) Toluene	15.70	92	28060	1.10642 ppb		87
33) Trans-1,3-Dichloropropene	15.86	75	9433	0.99217 ppb	#	77
34) 1,1,2-TCA	16.15	83	4291	0.99765 ppb		93
37) 1,2-EDB	17.39	107	5010	0.83544 ppb	#	99
38) Tetrachloroethene	16.85	164	11931	1.01103 ppb		88
39) 1-Chlorohexane	17.77	91	19691	1.06045 ppb		82
40) 1,1,1,2-Tetrachloroethane	18.21	131	12306	0.98147 ppb		92
41) m&p-Xylene	18.42	106	46454	1.95537 ppb		97
42) o-Xylene	19.16	106	23403	1.00246 ppb		99
43) Styrene	19.17	78	17658	0.97135 ppb		82
45) 2-Hexanone	16.17	43	1619	0.83928 ppb	#	78

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C06W.D Vial: 1
Acq On : 22 Apr 11 19:11 Operator: RS
Sample : Vol Std 04-22-11@1.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.56	76	9149	0.94954	ppb		94
47)	Dibromochloromethane	17.04	129	9540	1.00049	ppb		98
48)	Chlorobenzene	18.17	112	32870	0.96427	ppb	#	87
49)	Ethylbenzene	18.27	91	57671	0.98336	ppb		99
50)	Bromoform	19.70	173	5341	0.93686	ppb		83
52)	MIBK (methyl isobutyl keto	14.73	43	3758	1.28250	ppb	#	45
53)	Isopropylbenzene	19.79	105	62563	1.04080	ppb		100
54)	1,1,2,2-Tetrachloroethane	19.96	83	5371	1.10270	ppb	#	79
55)	1,2,3-Trichloropropane	20.21	110	1254	0.74239	ppb		82
56)	Bromobenzene	20.54	156	16617	1.17314	ppb		82
57)	n-Propylbenzene	20.50	91	70748	1.03808	ppb		95
58)	2-Chlorotoluene	20.79	91	48869	1.08152	ppb		93
59)	1,3,5-Trimethylbenzene	20.77	105	53288	1.11688	ppb		83
60)	4-Chlorotoluene	20.87	91	44798	1.14709	ppb		82
61)	Tert-Butylbenzene	21.42	119	56926	1.08273	ppb		93
62)	1,2,4-Trimethylbenzene	21.48	105	52225	1.07836	ppb		81
63)	Sec-Butylbenzene	21.81	105	72272	1.07210	ppb		90
64)	p-Isopropyltoluene	22.05	119	59173	1.04580	ppb		96
65)	1,3-DCB	22.18	146	31895	1.08749	ppb		97
66)	1,4-DCB	22.35	146	28615	1.04059	ppb		95
67)	n-Butylbenzene	22.75	91	50307	1.07058	ppb		98
68)	1,2-DCB	22.97	146	25669	1.09044	ppb		90
69)	1,2-Dibromo-3-chloropropan	24.20	157	1688	1.31575	ppb	#	35
70)	1,2,4-Trichlorobenzene	25.64	180	9037	1.06758	ppb		92
71)	Hexachlorobutadiene	25.89	223	4553	1.10280	ppb		84
72)	Naphthalene	25.98	128	9485	1.07668	ppb		98
73)	1,2,3-Trichlorobenzene	26.34	180	17725	1.02733	ppb		86

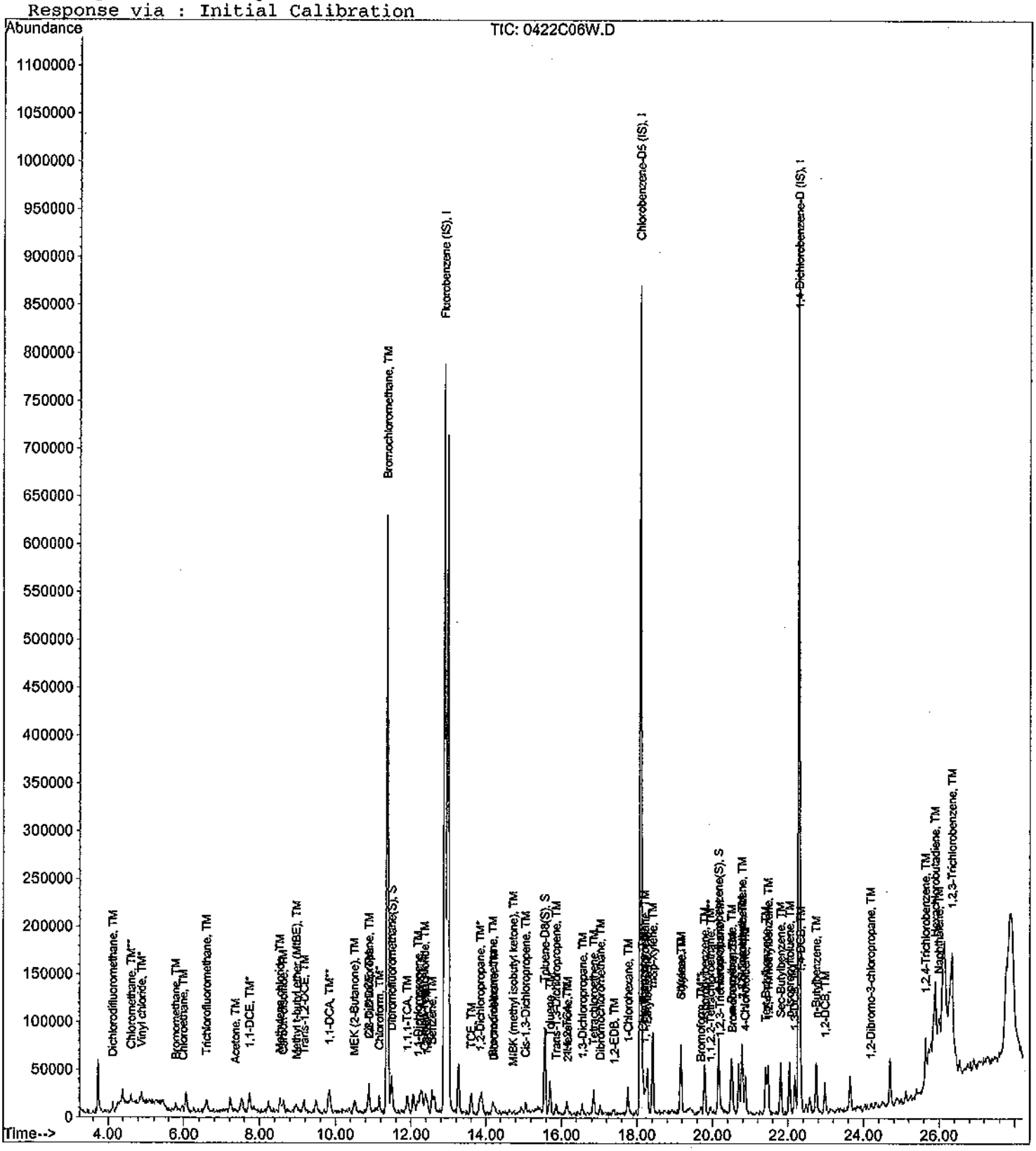
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C06W.D Vial: 1
Acq On : 22 Apr 11 19:11 Operator: RS
Sample : Vol Std 04-22-11@1.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C07W.D Vial: 1
Acq On : 22 Apr 11 19:46 Operator: RS
Sample : Vol Std 04-22-11@2.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.91	96	439296	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	327872	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	176768	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	61741	4.58630 ppb		0.00
Spiked Amount 23.521			Recovery	= 19.498%		
23) 1,2-DCA-D4(S)	12.30	65	41442	4.46641 ppb		0.00
Spiked Amount 22.321			Recovery	= 20.008%		
36) Toluene-D8(S)	15.57	98	221122	4.99407 ppb		0.00
Spiked Amount 26.002			Recovery	= 19.206%		
44) 4-Bromofluorobenzene(S)	20.16	95	79526	4.71507 ppb		0.00
Spiked Amount 26.339			Recovery	= 17.902%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	29423	1.54792 ppb		100
3) Chloromethane	4.61	50	25068	1.40430 ppb		90
4) Vinyl chloride	4.88	62	6473	1.39733 ppb	#	80
5) Bromomethane	5.79	94	4654	1.30815 ppb		97
6) Chloroethane	5.97	64	19410	1.91347 ppb		94
7) Trichlorofluoromethane	6.60	101	35682	1.63999 ppb		100
8) Acetone	7.33	43	2632	2.14284 ppb	#	62
9) 1,1-DCE	7.74	96	15999	1.74258 ppb	#	83
10) Methylene chloride	8.54	84	19166	1.28121 ppb		90
11) Carbon disulfide	8.63	76	58395	1.38037 ppb		98
12) Methyl t-butyl ether (MtBE	8.98	73	26905	1.71111 ppb		91
13) Trans-1,2-DCE	9.16	96	18912	1.82395 ppb		83
14) 1,1-DCA	9.86	63	33893	1.86622 ppb	#	90
15) MEK (2-Butanone)	10.50	43	6648	1.66170 ppb		98
16) Cis-1,2-DCE	10.88	96	24096	1.85231 ppb		87
17) 2,2-Dichloropropane	10.87	77	35248	1.92894 ppb		97
18) Chloroform	11.15	83	35875	1.73485 ppb		97
19) Bromochloromethane	11.38	128	7851	1.78181 ppb	#	70
21) 1,1,1-TCA	11.90	97	33686	1.66856 ppb		89
22) 1,1-Dichloropropene	12.18	75	25094	1.92513 ppb		94
24) Carbon Tetrachloride	12.36	117	31110	1.66744 ppb		93
25) 1,2-DCA	12.44	62	16982	1.85849 ppb		97
26) Benzene	12.57	78	73937	1.98430 ppb		97
27) TCE	13.60	95	24725	2.01724 ppb		94
28) 1,2-Dichloropropane	13.82	63	16909	1.96227 ppb	#	92
29) Bromodichloromethane	14.18	83	24953	1.78259 ppb	#	93
30) Dibromomethane	14.23	93	7092	1.50546 ppb		90
31) Cis-1,3-Dichloropropene	15.07	75	24508	1.86752 ppb		95
32) Toluene	15.69	92	54132	2.01660 ppb		100
33) Trans-1,3-Dichloropropene	15.87	75	17906	1.77938 ppb		96
34) 1,1,2-TCA	16.14	83	8599	1.88887 ppb		93
37) 1,2-EDB	17.39	107	11364	1.91534 ppb		89
38) Tetrachloroethene	16.85	164	23385	2.00292 ppb		95
39) 1-Chlorohexane	17.76	91	33354	1.81555 ppb		88
40) 1,1,1,2-Tetrachloroethane	18.22	131	24081	1.94121 ppb	#	73
41) m&p-Xylene	18.42	106	92211	3.92307 ppb		95
42) o-Xylene	19.16	106	41932	1.81543 ppb		89
43) Styrene	19.17	78	29431	1.63635 ppb		70
45) 2-Hexanone	16.16	43	3326	1.74270 ppb		95

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C07W.D Vial: 1
Acq On : 22 Apr 11 19:46 Operator: RS
Sample : Vol Std 04-22-11@2.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.55	76	17615	1.84782	ppb		92
47)	Dibromochloromethane	17.04	129	17035	1.80570	ppb		97
48)	Chlorobenzene	18.16	112	65151	1.93178	ppb		94
49)	Ethylbenzene	18.27	91	111073	1.91425	ppb		99
50)	Bromoform	19.70	173	9788	1.73533	ppb	#	75
52)	MIBK (methyl isobutyl keto	14.73	43	6861	2.41608	ppb	#	71
53)	Isopropylbenzene	19.79	105	123369	2.11776	ppb		94
54)	1,1,2,2-Tetrachloroethane	19.96	83	9272	1.96425	ppb		85
55)	1,2,3-Trichloropropane	20.21	110	3331	2.03483	ppb		80
56)	Bromobenzene	20.54	156	28462	2.07340	ppb		82
57)	n-Propylbenzene	20.50	91	138098	2.09086	ppb		100
58)	2-Chlorotoluene	20.80	91	93059	2.12511	ppb		99
59)	1,3,5-Trimethylbenzene	20.77	105	95502	2.06544	ppb		87
60)	4-Chlorotoluene	20.88	91	75311	1.98983	ppb		94
61)	Tert-Butylbenzene	21.42	119	101191	1.98597	ppb		99
62)	1,2,4-Trimethylbenzene	21.48	105	94410	2.01152	ppb		91
63)	Sec-Butylbenzene	21.82	105	133428	2.04236	ppb		100
64)	p-Isopropyltoluene	22.05	119	107845	1.96675	ppb		96
65)	1,3-DCB	22.18	146	56689	1.99444	ppb		95
66)	1,4-DCB	22.35	146	52401	1.96629	ppb		92
67)	n-Butylbenzene	22.75	91	91173	2.00206	ppb		98
68)	1,2-DCB	22.98	146	46169	2.02378	ppb		95
69)	1,2-Dibromo-3-chloropropan	24.19	157	2255	1.81372	ppb		85
70)	1,2,4-Trichlorobenzene	25.64	180	15280	1.86260	ppb		98
71)	Hexachlorobutadiene	25.88	223	8540	2.13441	ppb		79
72)	Naphthalene	25.98	128	17144	2.00809	ppb		97
73)	1,2,3-Trichlorobenzene	26.34	180	31645	1.89257	ppb	#	90

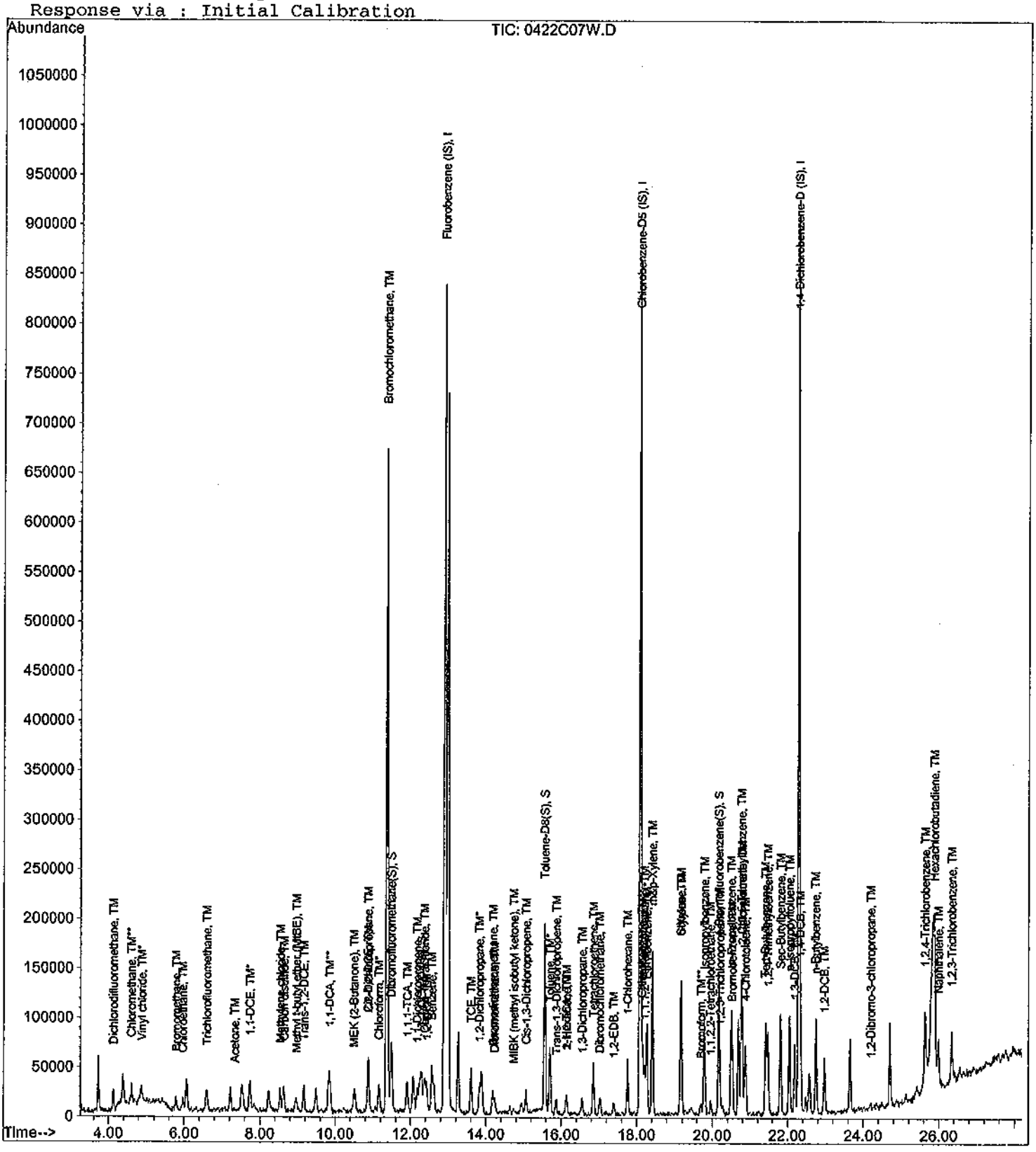
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C07W.D Vial: 1
Acq On : 22 Apr 11 19:46 Operator: RS
Sample : Vol Std 04-22-11@2.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C08W.D Vial: 1
Acq On : 22 Apr 11 20:21 Operator: RS
Sample : Vol Std 04-22-11@5.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	422656	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	332096	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	183424	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.49	111	132312	10.21546 ppb		0.00
Spiked Amount 23.521			Recovery = 43.430%			
23) 1,2-DCA-D4(S)	12.29	65	85085	9.53107 ppb		0.00
Spiked Amount 22.321			Recovery = 42.700%			
36) Toluene-D8(S)	15.56	98	446387	9.95348 ppb		0.00
Spiked Amount 26.002			Recovery = 38.278%			
44) 4-Bromofluorobenzene(S)	20.17	95	163353	9.56195 ppb		0.00
Spiked Amount 26.339			Recovery = 36.304%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	59861	3.27322 ppb		89
3) Chloromethane	4.61	50	65776	3.82980 ppb		96
4) Vinyl chloride	4.88	62	19800	4.44251 ppb		98
5) Bromomethane	5.79	94	15873	4.63726 ppb		100
6) Chloroethane	5.98	64	48086	4.92703 ppb		93
7) Trichlorofluoromethane	6.59	101	88773	4.24075 ppb		97
8) Acetone	7.34	43	5424	5.57996 ppb	#	58
9) 1,1-DCE	7.75	96	41309	4.67642 ppb		86
10) Methylene chloride	8.54	84	47772	5.15153 ppb		92
11) Carbon disulfide	8.63	76	189899	4.66566 ppb		98
12) Methyl t-butyl ether (MtBE	8.97	73	76214	5.03790 ppb		97
13) Trans-1,2-DCE	9.16	96	49152	4.92704 ppb		89
14) 1,1-DCA	9.86	63	93340	5.34183 ppb		97
15) MEK (2-Butanone)	10.50	43	17871	4.64280 ppb	#	74
16) Cis-1,2-DCE	10.88	96	65441	5.22865 ppb		94
17) 2,2-Dichloropropane	10.88	77	81657	4.64460 ppb		98
18) Chloroform	11.16	83	102813	5.16759 ppb		96
19) Bromochloromethane	11.38	128	21325	5.03031 ppb		90
21) 1,1,1-TCA	11.91	97	93313	4.80402 ppb		98
22) 1,1-Dichloropropene	12.17	75	58393	4.65609 ppb		91
24) Carbon Tetrachloride	12.37	117	80406	4.47928 ppb		93
25) 1,2-DCA	12.44	62	44277	5.03640 ppb		93
26) Benzene	12.57	78	190172	5.30472 ppb		92
27) TCE	13.60	95	58855	4.99085 ppb		95
28) 1,2-Dichloropropane	13.82	63	46727	5.63610 ppb		100
29) Bromodichloromethane	14.18	83	68376	5.07695 ppb		99
30) Dibromomethane	14.24	93	22958	5.06530 ppb		87
31) Cis-1,3-Dichloropropene	15.06	75	67536	5.34889 ppb		87
32) Toluene	15.70	92	141099	5.46336 ppb		99
33) Trans-1,3-Dichloropropene	15.86	75	48272	4.98581 ppb		98
34) 1,1,2-TCA	16.14	83	23087	5.27098 ppb		89
37) 1,2-EDB	17.39	107	31116	5.17772 ppb	#	96
38) Tetrachloroethene	16.85	164	57669	4.87651 ppb		97
39) 1-Chlorohexane	17.76	91	89077	4.78704 ppb		98
40) 1,1,1,2-Tetrachloroethane	18.21	131	62302	4.95840 ppb		98
41) m&p-Xylene	18.42	106	241258	10.13363 ppb		98
42) o-Xylene	19.16	106	122546	5.23811 ppb		87
43) Styrene	19.18	78	88366	4.85062 ppb		92
45) 2-Hexanone	16.16	43	9042	4.67740 ppb	#	78

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C08W.D Vial: 1
Acq On : 22 Apr 11 20:21 Operator: RS
Sample : Vol Std 04-22-11@5.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.55	76	51673	5.35158	ppb		93
47)	Dibromochloromethane	17.03	129	50117	5.24480	ppb		94
48)	Chlorobenzene	18.17	112	177272	5.18941	ppb		96
49)	Ethylbenzene	18.27	91	289177	4.92034	ppb		99
50)	Bromoform	19.69	173	27946	4.89157	ppb		91
52)	MIBK (methyl isobutyl keto	14.74	43	15243	5.17298	ppb	#	76
53)	Isopropylbenzene	19.79	105	327288	5.41438	ppb		98
54)	1,1,2,2-Tetrachloroethane	19.95	83	28150	5.74711	ppb		90
55)	1,2,3-Trichloropropane	20.22	110	9802	5.77053	ppb	#	77
56)	Bromobenzene	20.54	156	75361	5.29068	ppb		94
57)	n-Propylbenzene	20.50	91	362319	5.28661	ppb		99
58)	2-Chlorotoluene	20.79	91	248196	5.46217	ppb		97
59)	1,3,5-Trimethylbenzene	20.77	105	262744	5.47621	ppb		93
60)	4-Chlorotoluene	20.87	91	204323	5.20263	ppb		96
61)	Tert-Butylbenzene	21.41	119	275503	5.21081	ppb		97
62)	1,2,4-Trimethylbenzene	21.47	105	266603	5.47419	ppb		98
63)	Sec-Butylbenzene	21.81	105	352811	5.20444	ppb		95
64)	p-Isopropyltoluene	22.05	119	292666	5.14361	ppb		99
65)	1,3-DCB	22.18	146	160350	5.43675	ppb		98
66)	1,4-DCB	22.35	146	146507	5.29801	ppb		98
67)	n-Butylbenzene	22.75	91	240189	5.08290	ppb		97
68)	1,2-DCB	22.98	146	128232	5.41698	ppb		97
69)	1,2-Dibromo-3-chloropropan	24.19	157	7857	6.09014	ppb		89
70)	1,2,4-Trichlorobenzene	25.63	180	44344	5.20929	ppb		98
71)	Hexachlorobutadiene	25.89	223	21546	5.18961	ppb		94
72)	Naphthalene	25.98	128	46592	5.25932	ppb		98
73)	1,2,3-Trichlorobenzene	26.34	180	84581	4.87492	ppb		97

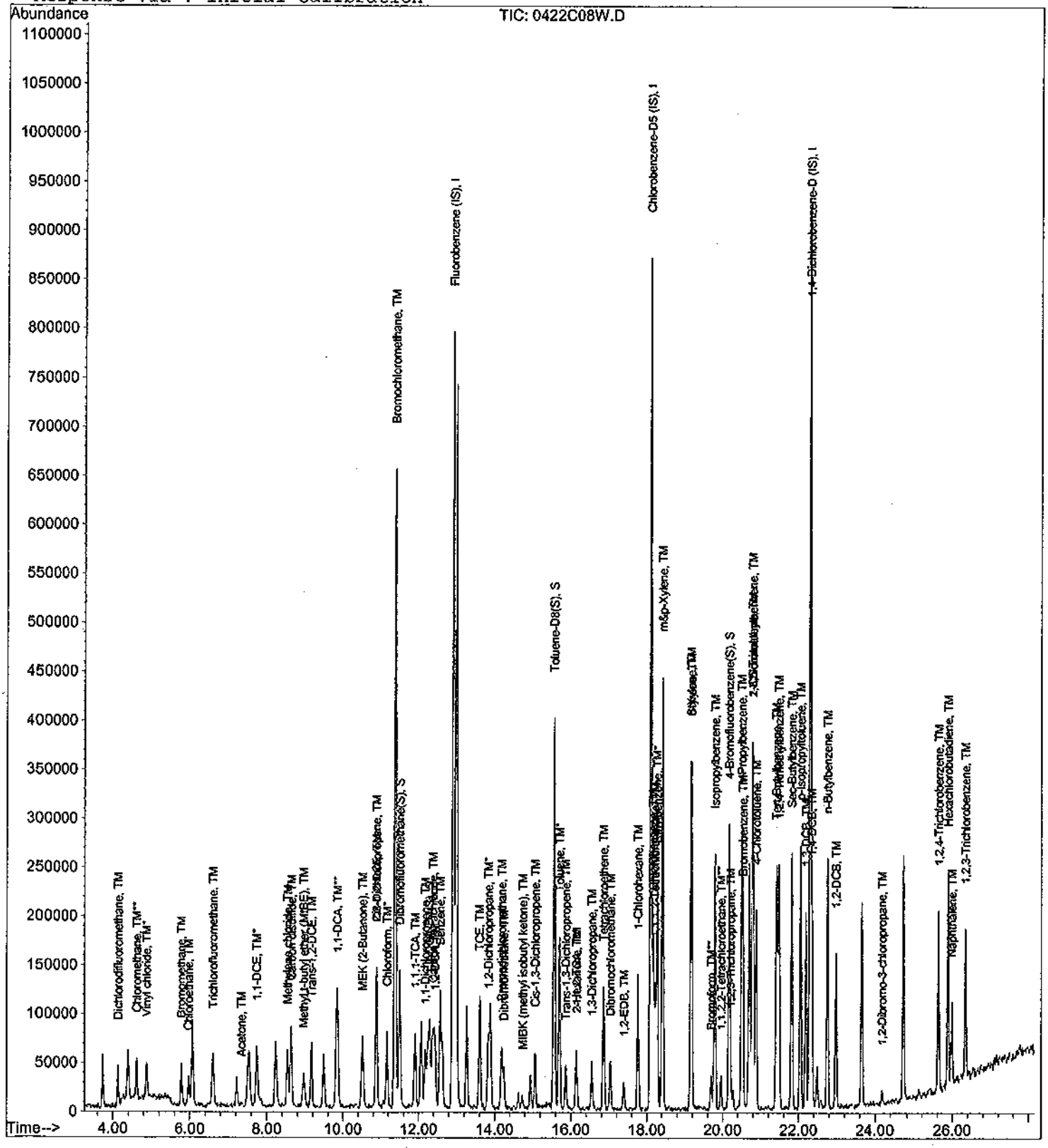
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C08W.D Vial: 1
Acq On : 22 Apr 11 20:21 Operator: RS
Sample : Vol Std 04-22-11@5.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C09W.D Vial: 1
Acq On : 22 Apr 11 20:57 Operator: RS
Sample : Vol Std 04-22-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	96	440128	25.00000 ppb	0.00
35) Chlorobenzene-D5 (IS)	18.10	117	324224	25.00000 ppb	0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	180544	25.00000 ppb	0.00
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.49	111	316177	23.44213 ppb	0.00
Spiked Amount 23.521			Recovery =	99.666%	
23) 1,2-DCA-D4(S)	12.29	65	199890	21.50244 ppb	0.00
Spiked Amount 22.321			Recovery =	96.333%	
36) Toluene-D8(S)	15.56	98	1058353	24.17199 ppb	0.00
Spiked Amount 26.002			Recovery =	92.963%	
44) 4-Bromofluorobenzene(S)	20.17	95	385441	23.10978 ppb	0.00
Spiked Amount 26.339			Recovery =	87.742%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.13	85	137096	7.19886 ppb	100
3) Chloromethane	4.60	50	136352	7.62392 ppb	100
4) Vinyl chloride	4.88	62	39016	8.40648 ppb	100
5) Bromomethane	5.78	94	35848	10.05716 ppb	100
6) Chloroethane	5.98	64	89035	8.76064 ppb	100
7) Trichlorofluoromethane	6.59	101	189991	8.71572 ppb	100
8) Acetone	7.35	43	9352	9.80758 ppb	100
9) 1,1-DCE	7.74	96	84138	9.14680 ppb	100
10) Methylene chloride	8.54	84	88479	10.05933 ppb	100
11) Carbon disulfide	8.63	76	386950	9.12964 ppb	100
12) Methyl t-butyl ether (MtBE	8.97	73	148717	9.44025 ppb	100
13) Trans-1,2-DCE	9.17	96	93379	8.98880 ppb	100
14) 1,1-DCA	9.86	63	174950	9.61489 ppb	100
15) MEK (2-Butanone)	10.51	43	34240	8.54227 ppb	100
16) Cis-1,2-DCE	10.88	96	126225	9.68486 ppb	100
17) 2,2-Dichloropropane	10.87	77	160628	8.77373 ppb	100
18) Chloroform	11.16	83	196177	9.46883 ppb	100
19) Bromochloromethane	11.39	128	43163	9.77745 ppb	100
21) 1,1,1-TCA	11.90	97	189250	9.35636 ppb	100
22) 1,1-Dichloropropene	12.17	75	121510	9.30423 ppb	100
24) Carbon Tetrachloride	12.36	117	165298	8.84291 ppb	100
25) 1,2-DCA	12.44	62	81869	8.94272 ppb	100
26) Benzene	12.57	78	362825	9.71900 ppb	100
27) TCE	13.60	95	121800	9.91852 ppb	100
28) 1,2-Dichloropropane	13.82	63	87693	10.15744 ppb	100
29) Bromodichloromethane	14.18	83	125219	8.92849 ppb	100
30) Dibromomethane	14.24	93	45553	9.65152 ppb	100
31) Cis-1,3-Dichloropropene	15.06	75	127518	9.69857 ppb	100
32) Toluene	15.70	92	266852	9.92235 ppb	100
33) Trans-1,3-Dichloropropene	15.86	75	96358	9.55732 ppb	100
34) 1,1,2-TCA	16.14	83	44515	9.75975 ppb	100
37) 1,2-EDB	17.39	107	58643	9.99515 ppb	100
38) Tetrachloroethene	16.85	164	120082	10.40071 ppb	100
39) 1-Chlorohexane	17.76	91	174303	9.59456 ppb	100
40) 1,1,1,2-Tetrachloroethane	18.21	131	117023	9.53957 ppb	100
41) m&p-Xylene	18.42	106	456083	19.62212 ppb	100
42) o-Xylene	19.16	106	230212	10.07910 ppb	100
43) Styrene	19.17	78	168447	9.47095 ppb	100
45) 2-Hexanone	16.16	43	16371	8.67429 ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C09W.D Vial: 1
Acq On : 22 Apr 11 20:57 Operator: RS
Sample : Vol Std 04-22-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46)	1,3-Dichloropropane	16.55	76	90707	9.62227	ppb	100
47)	Dibromochloromethane	17.03	129	91462	9.80399	ppb	100
48)	Chlorobenzene	18.17	112	333942	10.01307	ppb	100
49)	Ethylbenzene	18.27	91	559149	9.74490	ppb	100
50)	Bromoform	19.70	173	54949	9.85160	ppb	100
52)	MIBK (methyl isobutyl keto	14.74	43	26720	9.21255	ppb	100
53)	Isopropylbenzene	19.79	105	635394	10.67910	ppb	100
54)	1,1,2,2-Tetrachloroethane	19.95	83	50451	10.46440	ppb	100
55)	1,2,3-Trichloropropane	20.21	110	16522	9.88181	ppb	100
56)	Bromobenzene	20.53	156	144967	10.33968	ppb	100
57)	n-Propylbenzene	20.50	91	704311	10.44055	ppb	100
58)	2-Chlorotoluene	20.79	91	470446	10.51849	ppb	100
59)	1,3,5-Trimethylbenzene	20.77	105	503431	10.66007	ppb	100
60)	4-Chlorotoluene	20.88	91	392246	10.14699	ppb	100
61)	Tert-Butylbenzene	21.42	119	556023	10.68426	ppb	100
62)	1,2,4-Trimethylbenzene	21.47	105	499895	10.42813	ppb	100
63)	Sec-Butylbenzene	21.81	105	690046	10.34149	ppb	100
64)	p-Isopropyltoluene	22.05	119	582236	10.39604	ppb	100
65)	1,3-DCB	22.18	146	301683	10.39189	ppb	100
66)	1,4-DCB	22.35	146	283360	10.41037	ppb	100
67)	n-Butylbenzene	22.75	91	474542	10.20249	ppb	100
68)	1,2-DCB	22.98	146	248289	10.65593	ppb	100
69)	1,2-Dibromo-3-chloropropan	24.18	157	11974	9.42937	ppb	100
70)	1,2,4-Trichlorobenzene	25.63	180	81840	9.76748	ppb	100
71)	Hexachlorobutadiene	25.88	223	38133	9.33131	ppb	100
72)	Naphthalene	25.98	128	86072	9.87083	ppb	100
73)	1,2,3-Trichlorobenzene	26.34	180	163670	9.58377	ppb	100

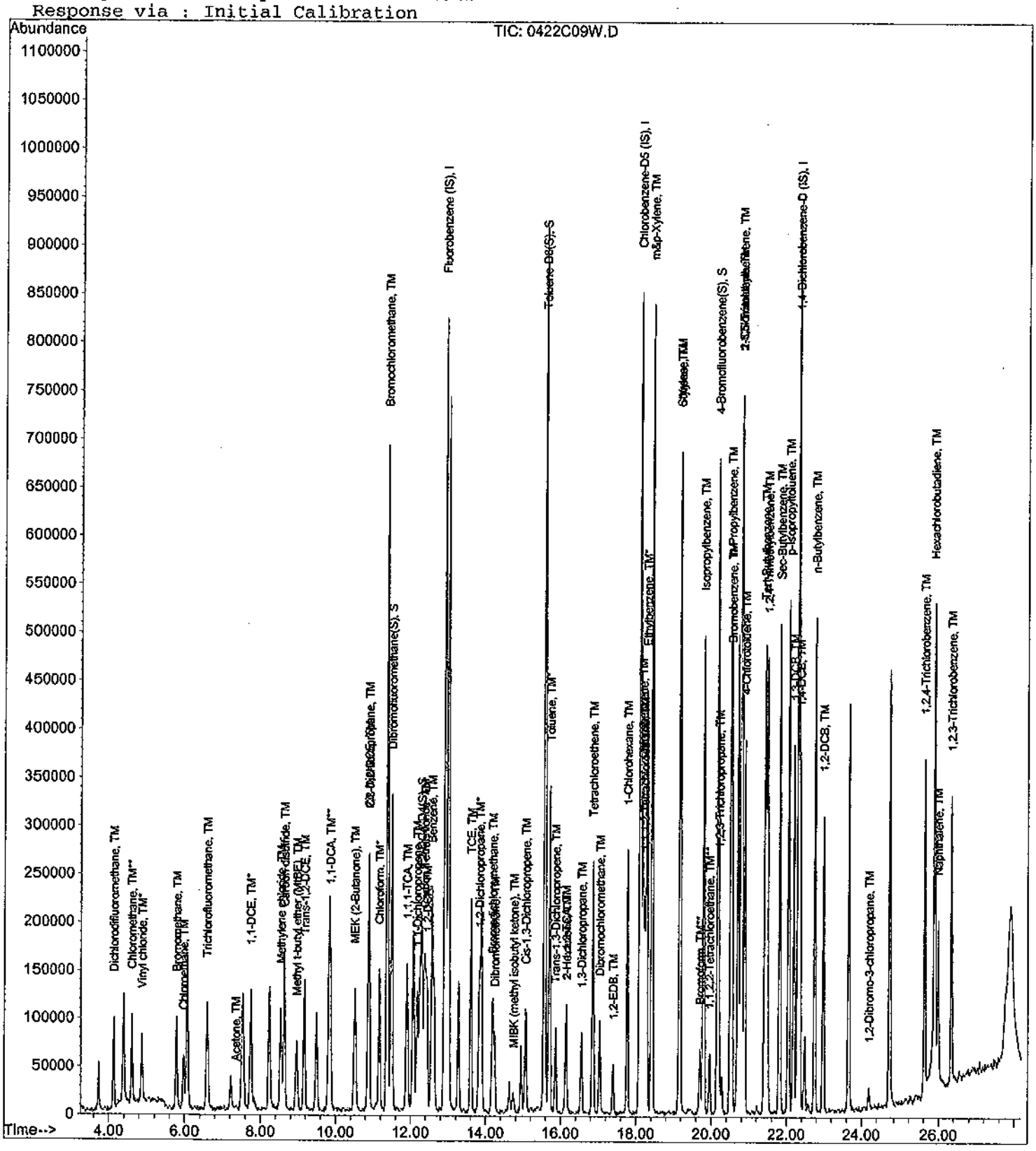
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C09W.D Vial: 1
Acq On : 22 Apr 11 20:57 Operator: RS
Sample : Vol Std 04-22-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C10W.D Vial: 1
Acq On : 22 Apr 11 21:32 Operator: RS
Sample : Vol Std 04-22-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	434432	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.09	117	345088	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	195904	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.49	111	524178	39.37339 ppb		0.00
Spiked Amount 23.521			Recovery = 167.399%			
23) 1,2-DCA-D4(S)	12.29	65	333941	36.39348 ppb		0.00
Spiked Amount 22.321			Recovery = 163.047%			
36) Toluene-D8(S)	15.56	98	1774004	38.06728 ppb		0.00
Spiked Amount 26.002			Recovery = 146.401%			
44) 4-Bromofluorobenzene(S)	20.17	95	660263	37.19377 ppb		0.00
Spiked Amount 26.339			Recovery = 141.215%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	327499	17.42232 ppb		94
3) Chloromethane	4.61	50	292687	16.57974 ppb		99
4) Vinyl chloride	4.87	62	74712	16.30869 ppb		98
5) Bromomethane	5.79	94	74880	21.28302 ppb		95
6) Chloroethane	5.97	64	182777	18.22022 ppb		88
7) Trichlorofluoromethane	6.59	101	405381	18.84043 ppb		98
8) Acetone	7.34	43	16340	18.02844 ppb		92
9) 1,1-DCE	7.74	96	175932	19.37668 ppb		93
10) Methylene chloride	8.54	84	178508	21.76355 ppb		92
11) Carbon disulfide	8.62	76	818813	19.57224 ppb		97
12) Methyl t-butyl ether (MtBE	8.96	73	309496	19.90377 ppb		94
13) Trans-1,2-DCE	9.17	96	202192	19.71849 ppb		93
14) 1,1-DCA	9.85	63	364479	20.29364 ppb		98
15) MEK (2-Butanone)	10.49	43	70473	17.81228 ppb		97
16) Cis-1,2-DCE	10.88	96	255270	19.84288 ppb		96
17) 2,2-Dichloropropane	10.88	77	327251	18.10929 ppb		98
18) Chloroform	11.16	83	400754	19.59672 ppb		99
19) Bromochloromethane	11.38	128	91559	21.01224 ppb		90
21) 1,1,1-TCA	11.90	97	389164	19.49219 ppb		97
22) 1,1-Dichloropropene	12.17	75	251514	19.51138 ppb		97
24) Carbon Tetrachloride	12.36	117	341973	18.53432 ppb		99
25) 1,2-DCA	12.45	62	170441	18.86173 ppb		97
26) Benzene	12.57	78	754000	20.46222 ppb		98
27) TCE	13.60	95	259421	21.40237 ppb		97
28) 1,2-Dichloropropane	13.82	63	185118	21.72326 ppb		98
29) Bromodichloromethane	14.18	83	260026	18.78372 ppb		100
30) Dibromomethane	14.24	93	95619	20.52486 ppb		96
31) Cis-1,3-Dichloropropene	15.07	75	263047	20.26874 ppb		93
32) Toluene	15.70	92	562293	21.18186 ppb		95
33) Trans-1,3-Dichloropropene	15.86	75	199689	20.06594 ppb		100
34) 1,1,2-TCA	16.14	83	92851	20.62415 ppb		94
37) 1,2-EDB	17.39	107	120284	19.26177 ppb	#	84
38) Tetrachloroethene	16.86	164	235383	19.15470 ppb		97
39) 1-Chlorohexane	17.76	91	377105	19.50284 ppb		96
40) 1,1,1,2-Tetrachloroethane	18.22	131	252321	19.32530 ppb		97
41) m&p-Xylene	18.41	106	950609	38.42547 ppb		95
42) o-Xylene	19.16	106	489580	20.13876 ppb		100
43) Styrene	19.18	78	349583	18.46698 ppb		96
45) 2-Hexanone	16.17	43	36225	18.03360 ppb		81

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C10W.D Vial: 1
Acq On : 22 Apr 11 21:32 Operator: RS
Sample : Vol Std 04-22-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,3-Dichloropropane	16.56	76	194632	19.39842	ppb	99
47)	Dibromochloromethane	17.03	129	191969	19.33342	ppb	93
48)	Chlorobenzene	18.16	112	690875	19.46305	ppb	96
49)	Ethylbenzene	18.28	91	1165360	19.08206	ppb	99
50)	Bromoform	19.69	173	118686	19.99225	ppb	96
52)	MIBK (methyl isobutyl keto	14.73	43	59394	18.87235	ppb	83
53)	Isopropylbenzene	19.79	105	1313695	20.34820	ppb	97
54)	1,1,2,2-Tetrachloroethane	19.95	83	108776	20.79300	ppb	89
55)	1,2,3-Trichloropropane	20.20	110	35336	19.47741	ppb	79
56)	Bromobenzene	20.53	156	295274	19.40899	ppb	98
57)	n-Propylbenzene	20.49	91	1468989	20.06861	ppb	98
58)	2-Chlorotoluene	20.79	91	941838	19.40705	ppb	93
59)	1,3,5-Trimethylbenzene	20.76	105	1006930	19.64985	ppb	94
60)	4-Chlorotoluene	20.87	91	831440	19.82210	ppb	97
61)	Tert-Butylbenzene	21.41	119	1154781	20.44989	ppb	96
62)	1,2,4-Trimethylbenzene	21.47	105	1042623	20.04448	ppb	99
63)	Sec-Butylbenzene	21.81	105	1476946	20.39903	ppb	99
64)	p-Isopropyltoluene	22.04	119	1223426	20.13197	ppb	98
65)	1,3-DCB	22.18	146	629700	19.99019	ppb	98
66)	1,4-DCB	22.35	146	591118	20.01436	ppb	94
67)	n-Butylbenzene	22.75	91	1009334	19.99890	ppb	97
68)	1,2-DCB	22.98	146	517544	20.47014	ppb	100
69)	1,2-Dibromo-3-chloropropan	24.19	157	27682	20.09003	ppb	86
70)	1,2,4-Trichlorobenzene	25.63	180	178880	19.67517	ppb	97
71)	Hexachlorobutadiene	25.88	223	84772	19.11761	ppb	97
72)	Naphthalene	25.98	128	188608	19.93386	ppb	99
73)	1,2,3-Trichlorobenzene	26.34	180	354806	19.14689	ppb	99

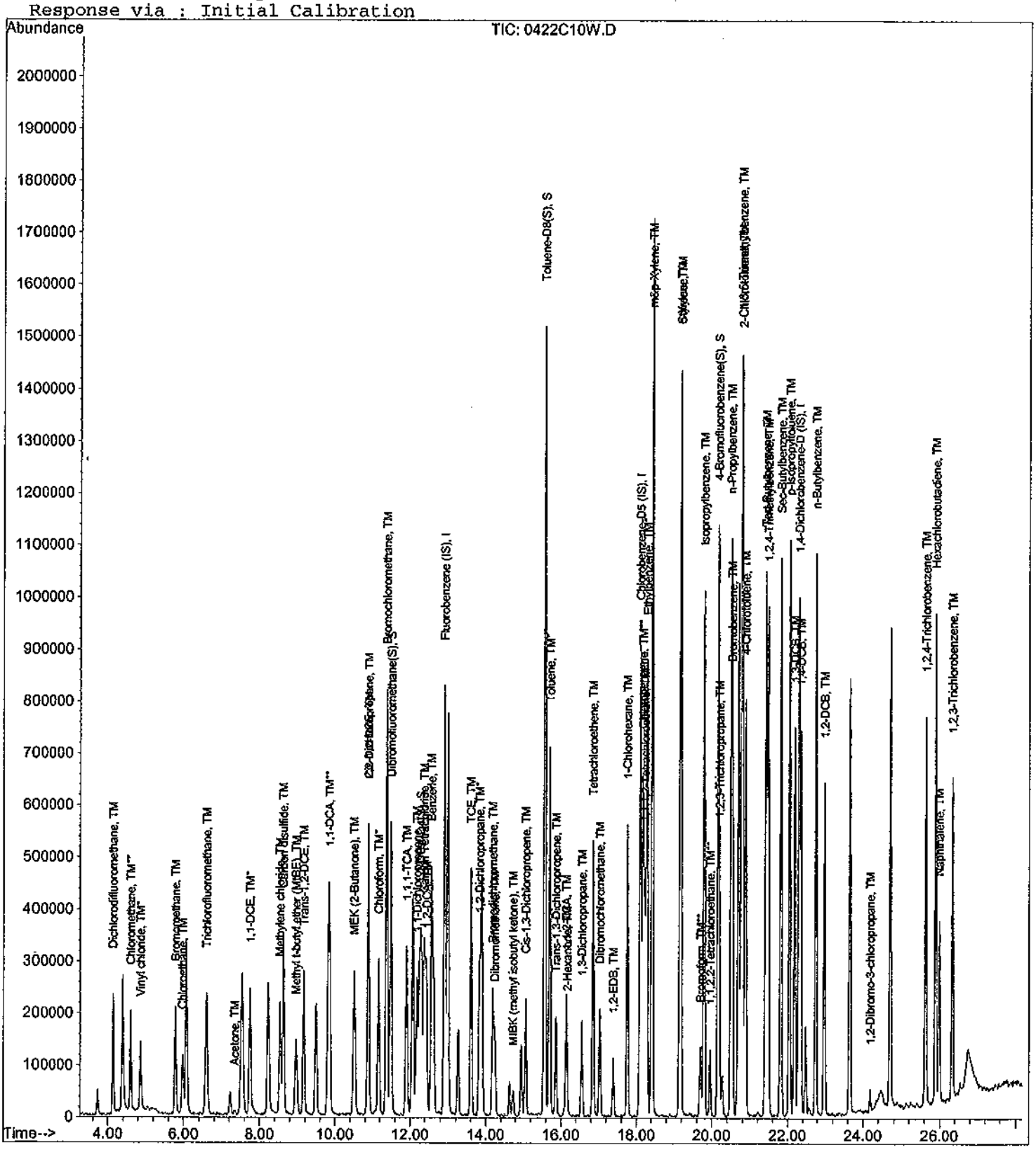
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C10W.D Vial: 1
Acq On : 22 Apr 11 21:32 Operator: RS
Sample : Vol Std 04-22-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C11W.D Vial: 1
Acq On : 22 Apr 11 22:07 Operator: RS
Sample : Vol Std 04-22-11@40ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	488128	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	362560	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	207744	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.49	111	1070242	71.54744 ppb		0.00
Spiked Amount 23.521			Recovery = 304.190%			
23) 1,2-DCA-D4(S)	12.29	65	662542	64.26216 ppb		0.00
Spiked Amount 22.321			Recovery = 287.904%			
36) Toluene-D8(S)	15.56	98	3598559	73.49805 ppb		0.00
Spiked Amount 26.002			Recovery = 282.665%			
44) 4-Bromofluorobenzene(S)	20.17	95	1303711	69.90118 ppb		0.00
Spiked Amount 26.339			Recovery = 265.395%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	730141	34.56933 ppb		94
3) Chloromethane	4.61	50	612908	30.89994 ppb		95
4) Vinyl chloride	4.86	62	154880	30.08930 ppb		100
5) Bromomethane	5.79	94	164992	41.73673 ppb		100
6) Chloroethane	5.97	64	383465	34.02091 ppb		95
7) Trichlorofluoromethane	6.58	101	852313	35.25451 ppb		100
8) Acetone	7.34	43	34525	34.66567 ppb	#	81
9) 1,1-DCE	7.75	96	367248	35.99830 ppb		86
10) Methylene chloride	8.54	84	357686	39.71400 ppb		99
11) Carbon disulfide	8.63	76	1705430	36.28088 ppb		98
12) Methyl t-butyl ether (MtBE	8.96	73	637351	36.47935 ppb		98
13) Trans-1,2-DCE	9.17	96	414465	35.97375 ppb		98
14) 1,1-DCA	9.85	63	740498	36.69437 ppb		98
15) MEK (2-Butanone)	10.49	43	136642	30.73753 ppb	#	88
16) Cis-1,2-DCE	10.88	96	526777	36.44349 ppb		100
17) 2,2-Dichloropropane	10.87	77	662210	32.61401 ppb		99
18) Chloroform	11.16	83	817536	35.57955 ppb		97
19) Bromochloromethane	11.38	128	187983	38.39529 ppb		97
21) 1,1,1-TCA	11.90	97	801138	35.71276 ppb		99
22) 1,1-Dichloropropene	12.18	75	530254	36.60984 ppb		97
24) Carbon Tetrachloride	12.36	117	714427	34.46124 ppb		97
25) 1,2-DCA	12.45	62	345162	33.99527 ppb		99
26) Benzene	12.56	78	1557204	37.61101 ppb		98
27) TCE	13.60	95	531869	39.05255 ppb		97
28) 1,2-Dichloropropane	13.83	63	379061	39.58891 ppb		97
29) Bromodichloromethane	14.18	83	555261	35.69851 ppb		97
30) Dibromomethane	14.24	93	192324	36.74156 ppb		96
31) Cis-1,3-Dichloropropene	15.07	75	555028	38.06242 ppb		97
32) Toluene	15.70	92	1156273	38.76590 ppb		98
33) Trans-1,3-Dichloropropene	15.86	75	417654	37.35168 ppb		98
34) 1,1,2-TCA	16.13	83	191927	37.94142 ppb		96
37) 1,2-EDB	17.39	107	253358	38.61650 ppb		86
38) Tetrachloroethene	16.85	164	494228	38.28050 ppb		98
39) 1-Chlorohexane	17.76	91	794601	39.11421 ppb		96
40) 1,1,1,2-Tetrachloroethane	18.21	131	509427	37.13683 ppb		98
41) m&p-Xylene	18.42	106	1936261	74.49569 ppb		98
42) o-Xylene	19.16	106	967819	37.89250 ppb		98
43) Styrene	19.17	78	679859	34.18334 ppb		98
45) 2-Hexanone	16.16	43	73377	34.76834 ppb	#	66

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C11W.D Vial: 1
Acq On : 22 Apr 11 22:07 Operator: RS
Sample : Vol Std 04-22-11@40ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.56	76	407916	38.69661	ppb		100
47)	Dibromochloromethane	17.03	129	391399	37.51865	ppb		90
48)	Chlorobenzene	18.16	112	1413699	37.90691	ppb		94
49)	Ethylbenzene	18.27	91	2362938	36.82710	ppb		99
50)	Bromoform	19.69	173	240999	38.63914	ppb		98
52)	MIBK (methyl isobutyl keto	14.73	43	116981	35.05206	ppb		83
53)	Isopropylbenzene	19.79	105	2667764	38.96670	ppb		98
54)	1,1,2,2-Tetrachloroethane	19.95	83	224462	40.46148	ppb		95
55)	1,2,3-Trichloropropane	20.20	110	74769	38.86424	ppb	#	74
56)	Bromobenzene	20.53	156	607159	37.63527	ppb		96
57)	n-Propylbenzene	20.50	91	3013762	38.82598	ppb		98
58)	2-Chlorotoluene	20.79	91	1918239	37.27356	ppb		92
59)	1,3,5-Trimethylbenzene	20.77	105	2109697	38.82352	ppb		94
60)	4-Chlorotoluene	20.87	91	1647055	37.02896	ppb		97
61)	Tert-Butylbenzene	21.41	119	2328431	38.88388	ppb		99
62)	1,2,4-Trimethylbenzene	21.47	105	2085832	37.81478	ppb		99
63)	Sec-Butylbenzene	21.81	105	2994709	39.00446	ppb		98
64)	p-Isopropyltoluene	22.04	119	2487303	38.59687	ppb		98
65)	1,3-DCB	22.18	146	1281896	38.37522	ppb		98
66)	1,4-DCB	22.35	146	1203078	38.41281	ppb		94
67)	n-Butylbenzene	22.75	91	2031977	37.96688	ppb		98
68)	1,2-DCB	22.97	146	1034046	38.56809	ppb		99
69)	1,2-Dibromo-3-chloropropan	24.19	157	56619	38.74896	ppb		83
70)	1,2,4-Trichlorobenzene	25.63	180	355520	36.87529	ppb		99
71)	Hexachlorobutadiene	25.88	223	163840	34.84303	ppb		91
72)	Naphthalene	25.98	128	382912	38.16323	ppb		99
73)	1,2,3-Trichlorobenzene	26.34	180	701877	35.71766	ppb		99

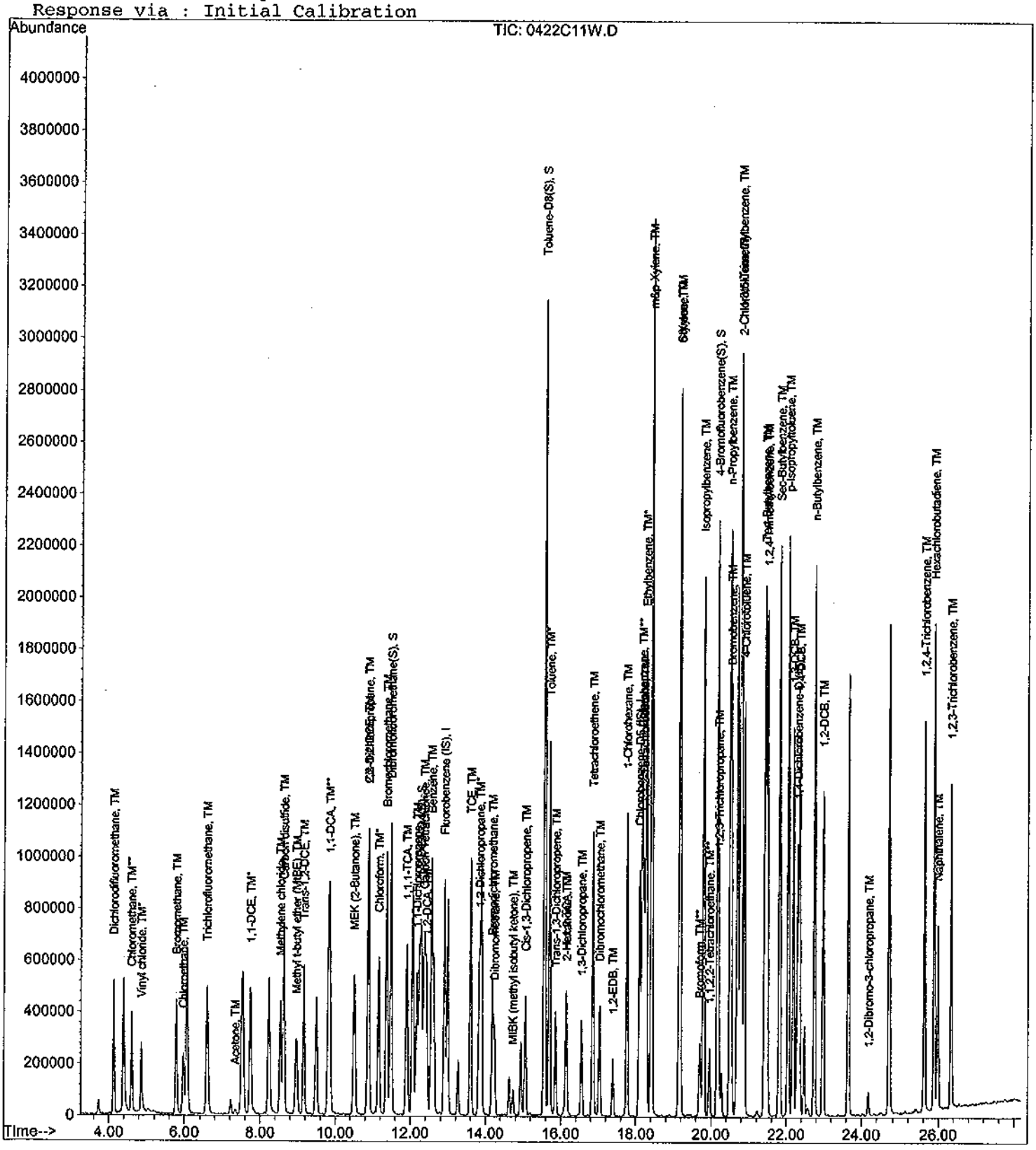
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C11W.D Vial: 1
Acq On : 22 Apr 11 22:07 Operator: RS
Sample : Vol Std 04-22-11@40ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C12W.D Vial: 1
Acq On : 22 Apr 11 22:42 Operator: RS
Sample : Vol Std 04-22-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.90	96	530752	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.10	117	386432	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.30	152	208512	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	1447087	88.97107 ppb		0.00
Spiked Amount 23.521			Recovery = 378.270%			
23) 1,2-DCA-D4(S)	12.29	65	893215	79.67828 ppb		0.00
Spiked Amount 22.321			Recovery = 356.971%			
36) Toluene-D8(S)	15.56	98	4858634	93.10396 ppb		0.00
Spiked Amount 26.002			Recovery = 358.068%			
44) 4-Bromofluorobenzene(S)	20.17	95	1722224	86.63624 ppb		0.00
Spiked Amount 26.339			Recovery = 328.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	1715239	74.68802 ppb		95
3) Chloromethane	4.60	50	1594055	73.91076 ppb		98
4) Vinyl chloride	4.86	62	445120	79.53091 ppb		98
5) Bromomethane	5.78	94	428096	99.59529 ppb		96
6) Chloroethane	5.98	64	986007	80.45300 ppb		96
7) Trichlorofluoromethane	6.59	101	2091957	79.58118 ppb		98
8) Acetone	7.34	43	87934	82.36564 ppb	#	77
9) 1,1-DCE	7.75	96	960265	86.56766 ppb		89
10) Methylene chloride	8.54	84	940964	97.72035 ppb		97
11) Carbon disulfide	8.63	76	4473488	87.52503 ppb		99
12) Methyl t-butyl ether (MtBE	8.97	73	1697396	89.34981 ppb		96
13) Trans-1,2-DCE	9.17	96	1134896	90.59328 ppb		93
14) 1,1-DCA	9.86	63	1913315	87.19752 ppb		100
15) MEK (2-Butanone)	10.50	43	349474	72.30057 ppb	#	79
16) Cis-1,2-DCE	10.88	96	1369551	87.13916 ppb		96
17) 2,2-Dichloropropane	10.87	77	1719953	77.90532 ppb		97
18) Chloroform	11.15	83	2135253	85.46435 ppb		98
19) Bromochloromethane	11.39	128	499124	93.75835 ppb		96
21) 1,1,1-TCA	11.90	97	2067743	84.77245 ppb		99
22) 1,1-Dichloropropene	12.17	75	1350222	85.73560 ppb		98
24) Carbon Tetrachloride	12.36	117	1806221	80.12831 ppb		98
25) 1,2-DCA	12.44	62	893020	80.89073 ppb		98
26) Benzene	12.57	78	4150334	92.19229 ppb		98
27) TCE	13.60	95	1370567	92.55227 ppb		95
28) 1,2-Dichloropropane	13.82	63	1001555	96.20138 ppb		100
29) Bromodichloromethane	14.18	83	1456187	86.10177 ppb		98
30) Dibromomethane	14.23	93	508892	89.41118 ppb		92
31) Cis-1,3-Dichloropropene	15.06	75	1493203	94.17649 ppb		96
32) Toluene	15.70	92	3083496	95.07688 ppb		99
33) Trans-1,3-Dichloropropene	15.86	75	1112927	91.53817 ppb		100
34) 1,1,2-TCA	16.13	83	523115	95.10794 ppb		97
37) 1,2-EDB	17.38	107	688251	98.42196 ppb		88
38) Tetrachloroethene	16.85	164	1277753	92.85471 ppb		99
39) 1-Chlorohexane	17.76	91	2075816	95.86964 ppb		95
40) 1,1,1,2-Tetrachloroethane	18.21	131	1349043	92.26894 ppb		98
41) m&p-Xylene	18.42	106	5089036	183.70019 ppb		99
42) o-Xylene	19.16	106	2544150	93.45631 ppb		94
43) Styrene	19.17	78	1719751	81.12749 ppb		93
45) 2-Hexanone	16.15	43	196612	87.40593 ppb	#	74

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

Data File : M:\CHICO\DATA\C110422\0422C12W.D Vial: 1
Acq On : 22 Apr 11 22:42 Operator: RS
Sample : Vol Std 04-22-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:43:43 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.55	76	1079099	96.04401	ppb		99
47)	Dibromochloromethane	17.03	129	1064878	95.77103	ppb		93
48)	Chlorobenzene	18.17	112	3687414	92.76629	ppb		95
49)	Ethylbenzene	18.27	91	6239267	91.23376	ppb		99
50)	Bromoform	19.69	173	646809	97.29603	ppb		100
52)	MIBK (methyl isobutyl keto	14.73	43	314584	93.91441	ppb		91
53)	Isopropylbenzene	19.79	105	6850150	99.68820	ppb		100
54)	1,1,2,2-Tetrachloroethane	19.95	83	592498	106.41020	ppb		93
55)	1,2,3-Trichloropropane	20.21	110	186984	96.83458	ppb		80
56)	Bromobenzene	20.54	156	1561900	96.45911	ppb		94
57)	n-Propylbenzene	20.50	91	7625553	97.87736	ppb		97
58)	2-Chlorotoluene	20.80	91	4900402	94.86964	ppb		92
59)	1,3,5-Trimethylbenzene	20.77	105	5367950	98.41941	ppb		95
60)	4-Chlorotoluene	20.88	91	4177487	93.57202	ppb		97
61)	Tert-Butylbenzene	21.42	119	5945503	98.92186	ppb		98
62)	1,2,4-Trimethylbenzene	21.47	105	5374128	97.07060	ppb		98
63)	Sec-Butylbenzene	21.81	105	7575582	98.30443	ppb		98
64)	p-Isopropyltoluene	22.05	119	6351300	98.19366	ppb		97
65)	1,3-DCB	22.18	146	3237063	96.54876	ppb		97
66)	1,4-DCB	22.35	146	3065931	97.53088	ppb		95
67)	n-Butylbenzene	22.75	91	5106089	95.05433	ppb		99
68)	1,2-DCB	22.97	146	2651887	98.54639	ppb		99
69)	1,2-Dibromo-3-chloropropan	24.18	157	158695	108.20780	ppb	#	74
70)	1,2,4-Trichlorobenzene	25.62	180	872254	90.13881	ppb		97
71)	Hexachlorobutadiene	25.89	223	413623	87.63914	ppb		93
72)	Naphthalene	25.98	128	1024192	101.70095	ppb		100
73)	1,2,3-Trichlorobenzene	26.34	180	1815892	92.06816	ppb		98

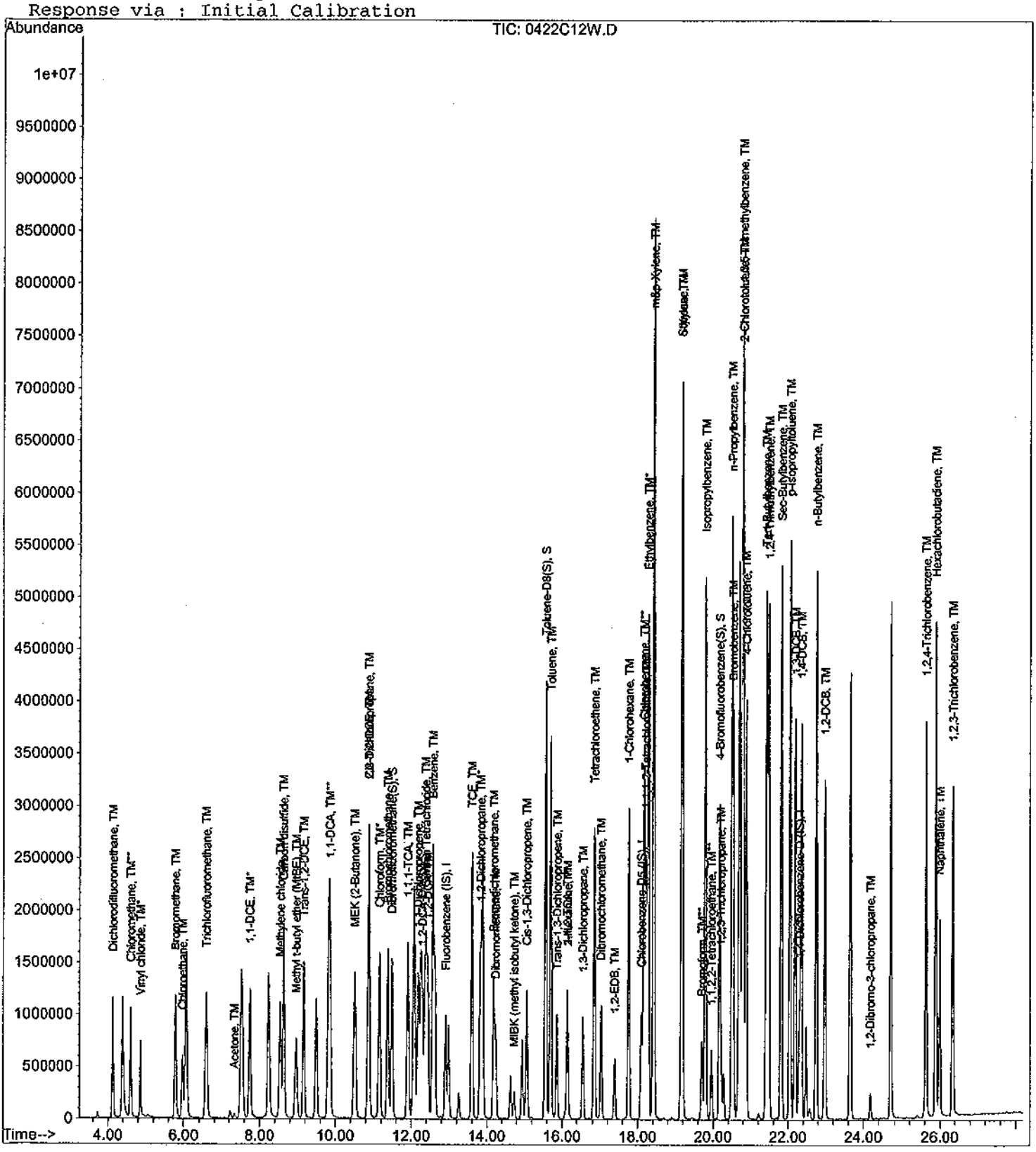
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C12W.D Vial: 1
Acq On : 22 Apr 11 22:42 Operator: RS
Sample : Vol Std 04-22-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:44 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: lcm75
Date Analyzed: 04/23/11
Instrument: Chico
Initial Cal. Date: 04/22/11
Data File: 0422C25W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	0.8305	0.9298	12	TM	
3	TM**	Chloromethane	0.7750	0.8793	13	TM**	
4	TM*	Vinyl chloride	0.2212	0.2584	17	TM*	
5	TML	Bromomethane	0.1872	0.1919	2.5	TML	6.5
6	TM	Chloroethane	0.5111	0.5505	7.7	TM	
7	TM	Trichlorofluoromethane	1.050	1.181	12	TM	
8	TML	Acetone	0.0744	0.0442	41	TML	15
9	TM*	1,1-DCE	0.4919	0.5169	5.1	TM*	
10	TML	Methylene chloride	0.5653	0.5044	11	TML	2.2
11	TM	Carbon disulfide	2.024	2.373	17	TM	
12	TM	Methyl t-butyl ether (MtBE)	0.8341	0.7877	5.6	TM	
13	TML	Trans-1,2-DCE	0.5864	0.5767	1.7	TML	4.8
14	TM**	1,1-DCA	1.019	1.023	0.38	TM**	
15	TM	MEK (2-Butanone)	0.1939	0.1707	12	TM	
16	TM	Cis-1,2-DCE	0.7277	0.7032	3.4	TM	
17	TM	2,2-Dichloropropane	0.9418	0.7871	16	TM	
18	TM*	Chloroform	1.096	1.111	1.3	TM*	
19	TM	Bromochloromethane	0.2437	0.2479	1.7	TM	
20	S	Dibromofluoromethane(S)	0.7983	0.7138	11	S	
21	TM	1,1,1-TCA	1.064	1.117	4.9	TM	
22	TM	1,1-Dichloropropene	0.6943	0.7098	2.2	TM	
23	S	1,2-DCA-D4(S)	0.5091	0.4437	13	S	
24	TM	Carbon Tetrachloride	0.9332	0.9492	1.7	TM	
25	TM	1,2-DCA	0.4596	0.4659	1.4	TM	
26	TM	Benzene	2.124	2.147	1.1	TM	
27	TM	TCE	0.6987	0.7953	14	TM	
28	TM*	1,2-Dichloropropane	0.5214	0.5128	1.6	TM*	
29	TM	Bromodichloromethane	0.7379	0.6931	6.1	TM	
30	TM	Dibromomethane	0.2520	0.2611	3.6	TM	
31	TM	Cis-1,3-Dichloropropene	0.7392	0.6865	7.1	TM	
32	TM*	Toluene	1.563	1.670	6.8	TM*	
33	TM	Trans-1,3-Dichloropropene	0.5522	0.6022	9.1	TM	
34	TM	1,1,2-TCA	0.2502	0.2555	2.1	TM	
35	I	Chlorobenzene-D5 (IS)	ISTD			I	
36	S	Toluene-D8(S)	3.556	3.326	6.5	S	
37	TM	1,2-EDB	0.4402	0.4022	8.6	TM	
38	TM	Tetrachloroethene	0.8780	0.8908	1.5	TM	
39	TM	1-Chlorohexane	1.384	1.467	5.2	TM	
40	TM	1,1,1,2-Tetrachloroethane	0.9000	0.8844	1.7	TM	
		Average			7.6		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 64475
Date Analyzed: 04/23/11
Instrument: Chico
Cal. Date: 04/22/11
Data File: 0422C25W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	m&p-Xylene	1.746	1.797	2.9	TM	
42	TM	o-Xylene	1.721	1.772	2.9	TM	
43	TM	Styrene	1.271	1.222	3.8	TM	
44	SL	4-Bromofluorobenzene(S)	1.425	1.212	15	SL	3.2
45	TM	2-Hexanone	0.1292	0.1304	0.98	TM	
46	TM	1,3-Dichloropropane	0.7089	0.6653	6.2	TM	
47	TM	Dibromochloromethane	0.6915	0.6569	5.0	TM	
48	TM**	Chlorobenzene	2.528	2.564	1.4	TM**	
49	TM*	Ethylbenzene	4.261	4.384	2.9	TM*	
50	TM**	Bromoform	0.4085	0.3971	2.8	TM**	
51	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
52	TM	MIBK (methyl isobutyl ketone)	0.4153	0.4026	3.1	TM	
53	TM	Isopropylbenzene	8.558	8.712	1.8	TM	
54	TM**	1,1,2,2-Tetrachloroethane	0.7025	0.5781	18	TM**	
55	TM	1,2,3-Trichloropropane	0.2201	0.2250	2.2	TM	
56	TM	Bromobenzene	2.051	1.920	6.4	TM	
57	TM	n-Propylbenzene	9.606	9.603	0.04	TM	
58	TM	2-Chlorotoluene	6.367	6.165	3.2	TM	
59	TM	1,3,5-Trimethylbenzene	6.731	6.592	2.1	TM	
60	TM	4-Chlorotoluene	5.509	5.329	3.3	TM	
61	TM	Tert-Butylbenzene	7.385	7.498	1.6	TM	
62	TM	1,2,4-Trimethylbenzene	6.795	6.856	0.90	TM	
63	TM	Sec-Butylbenzene	9.513	9.536	0.24	TM	
64	TM	p-Isopropyltoluene	7.898	7.844	0.68	TM	
65	TM	1,3-DCB	4.202	3.962	5.7	TM	
66	TM	1,4-DCB	3.818	3.658	4.2	TM	
67	TM	n-Butylbenzene	6.625	6.322	4.6	TM	
68	TM	1,2-DCB	3.362	3.179	5.4	TM	
69	TM	1,2-Dibromo-3-chloropropane	0.1869	0.1582	15	TM	
70	TM	1,2,4-Trichlorobenzene	1.172	1.015	13	TM	
71	TM	Hexachlorobutadiene	0.5758	0.5265	8.6	TM	
72	TM	Naphthalene	1.242	1.059	15	TM	
73	TM	1,2,3-Trichlorobenzene	2.394	2.056	12	TM	
74							
75							
76							
77							
78							
79							
80							
		Average			5.3		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C25W.D Vial: 1
Acq On : 23 Apr 11 7:28 Operator: RS
Sample : 110422A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:51 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.91	96	455808	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.09	117	350144	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	195456	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	325333	22.35090 ppb		0.00
Spiked Amount 23.521			Recovery =	95.028%		
23) 1,2-DCA-D4(S)	12.29	65	202265	21.79074 ppb		0.00
Spiked Amount 22.321			Recovery =	97.627%		
36) Toluene-D8(S)	15.56	98	1164463	23.38145 ppb		0.00
Spiked Amount 26.002			Recovery =	89.921%		
44) 4-Bromofluorobenzene(S)	20.16	95	424316	25.80744 ppb		0.00
Spiked Amount 26.339			Recovery =	97.982%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	169519	11.19582 ppb		95
3) Chloromethane	4.61	50	160312	11.34479 ppb		92
4) Vinyl chloride	4.89	62	47120	11.68554 ppb		94
5) Bromomethane	5.79	94	34992	9.34700 ppb		91
6) Chloroethane	5.98	64	100378	10.77170 ppb		98
7) Trichlorofluoromethane	6.59	101	215291	11.24239 ppb		90
8) Acetone	7.33	43	8052	8.47071 ppb	#	67
9) 1,1-DCE	7.75	96	94237	10.50780 ppb		90
10) Methylene chloride	8.53	84	91958	10.22223 ppb		93
11) Carbon disulfide	8.63	76	432683	11.72657 ppb		98
12) Methyl t-butyl ether (MtBE	8.96	73	143624	9.44465 ppb		96
13) Trans-1,2-DCE	9.16	96	105142	10.47839 ppb		95
14) 1,1-DCA	9.86	63	186480	10.03801 ppb		98
15) MEK (2-Butanone)	10.50	43	31123	8.80539 ppb	#	90
16) Cis-1,2-DCE	10.88	96	128211	9.66381 ppb		92
17) 2,2-Dichloropropane	10.88	77	143499	8.35689 ppb		99
18) Chloroform	11.16	83	202543	10.13316 ppb		98
19) Bromochloromethane	11.38	128	45197	10.17121 ppb		98
21) 1,1,1-TCA	11.90	97	203618	10.49431 ppb		98
22) 1,1-Dichloropropene	12.17	75	129404	10.22252 ppb		97
24) Carbon Tetrachloride	12.36	117	173058	10.17112 ppb		97
25) 1,2-DCA	12.44	62	84952	10.13766 ppb		99
26) Benzene	12.57	78	391444	10.10664 ppb		97
27) TCE	13.59	95	144995	11.38219 ppb		97
28) 1,2-Dichloropropane	13.83	63	93491	9.83511 ppb		98
29) Bromodichloromethane	14.17	83	126365	9.39320 ppb		99
30) Dibromomethane	14.23	93	47604	10.36253 ppb		89
31) Cis-1,3-Dichloropropene	15.06	75	125174	9.28746 ppb		98
32) Toluene	15.69	92	304468	10.68218 ppb		100
33) Trans-1,3-Dichloropropene	15.86	75	91560	9.09388 ppb		96
34) 1,1,2-TCA	16.14	83	46586	10.21064 ppb		94
37) 1,2-EDB	17.39	107	56335	9.13650 ppb		90
38) Tetrachloroethene	16.85	164	124765	10.14634 ppb		96
39) 1-Chlorohexane	17.76	91	204031	10.52286 ppb		93
40) 1,1,1,2-Tetrachloroethane	18.22	131	123864	9.82656 ppb		92
41) m&p-Xylene	18.41	106	503258	20.58009 ppb		96
42) o-Xylene	19.16	106	248174	10.29442 ppb		97
43) Styrene	19.18	78	171208	9.62020 ppb		99
45) 2-Hexanone	16.16	43	18269	10.09781 ppb	#	67

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

Data File : M:\CHICO\DATA\C110422\0422C25W.D Vial: 1
Acq On : 23 Apr 11 7:28 Operator: RS
Sample : 110422A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:51 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,3-Dichloropropane	16.55	76	93178	9.38499	ppb	97
47) Dibromochloromethane	17.03	129	91998	9.49879	ppb	92
48) Chlorobenzene	18.16	112	359061	10.14123	ppb	97
49) Ethylbenzene	18.28	91	614016	10.28756	ppb	99
50) Bromoform	19.70	173	55612	9.71937	ppb	87
52) MIBK (methyl isobutyl keto	14.73	43	31477	9.69430	ppb	80
53) Isopropylbenzene	19.78	105	681130	10.18013	ppb	97
54) 1,1,2,2-Tetrachloroethane	19.95	83	45200	8.23002	ppb	87
55) 1,2,3-Trichloropropane	20.21	110	17588	10.21867	ppb	92
56) Bromobenzene	20.53	156	150142	9.36194	ppb	98
57) n-Propylbenzene	20.49	91	750768	9.99623	ppb	98
58) 2-Chlorotoluene	20.79	91	482009	9.68298	ppb	96
59) 1,3,5-Trimethylbenzene	20.77	105	515371	9.79407	ppb	95
60) 4-Chlorotoluene	20.87	91	416605	9.67255	ppb	98
61) Tert-Butylbenzene	21.41	119	586192	10.15250	ppb	98
62) 1,2,4-Trimethylbenzene	21.47	105	536025	10.08982	ppb	96
63) Sec-Butylbenzene	21.81	105	745549	10.02375	ppb	99
64) p-Isopropyltoluene	22.04	119	613264	9.93157	ppb	99
65) 1,3-DCB	22.18	146	309737	9.42882	ppb	98
66) 1,4-DCB	22.35	146	285971	9.58092	ppb	97
67) n-Butylbenzene	22.74	91	494267	9.54259	ppb	99
68) 1,2-DCB	22.98	146	248534	9.45620	ppb	96
69) 1,2-Dibromo-3-chloropropan	24.19	157	12368	8.46579	ppb	92
70) 1,2,4-Trichlorobenzene	25.63	180	79376	8.66526	ppb	95
71) Hexachlorobutadiene	25.88	223	41160	9.14387	ppb	98
72) Naphthalene	25.99	128	82808	8.52657	ppb	98
73) 1,2,3-Trichlorobenzene	26.34	180	160781	8.81114	ppb	95

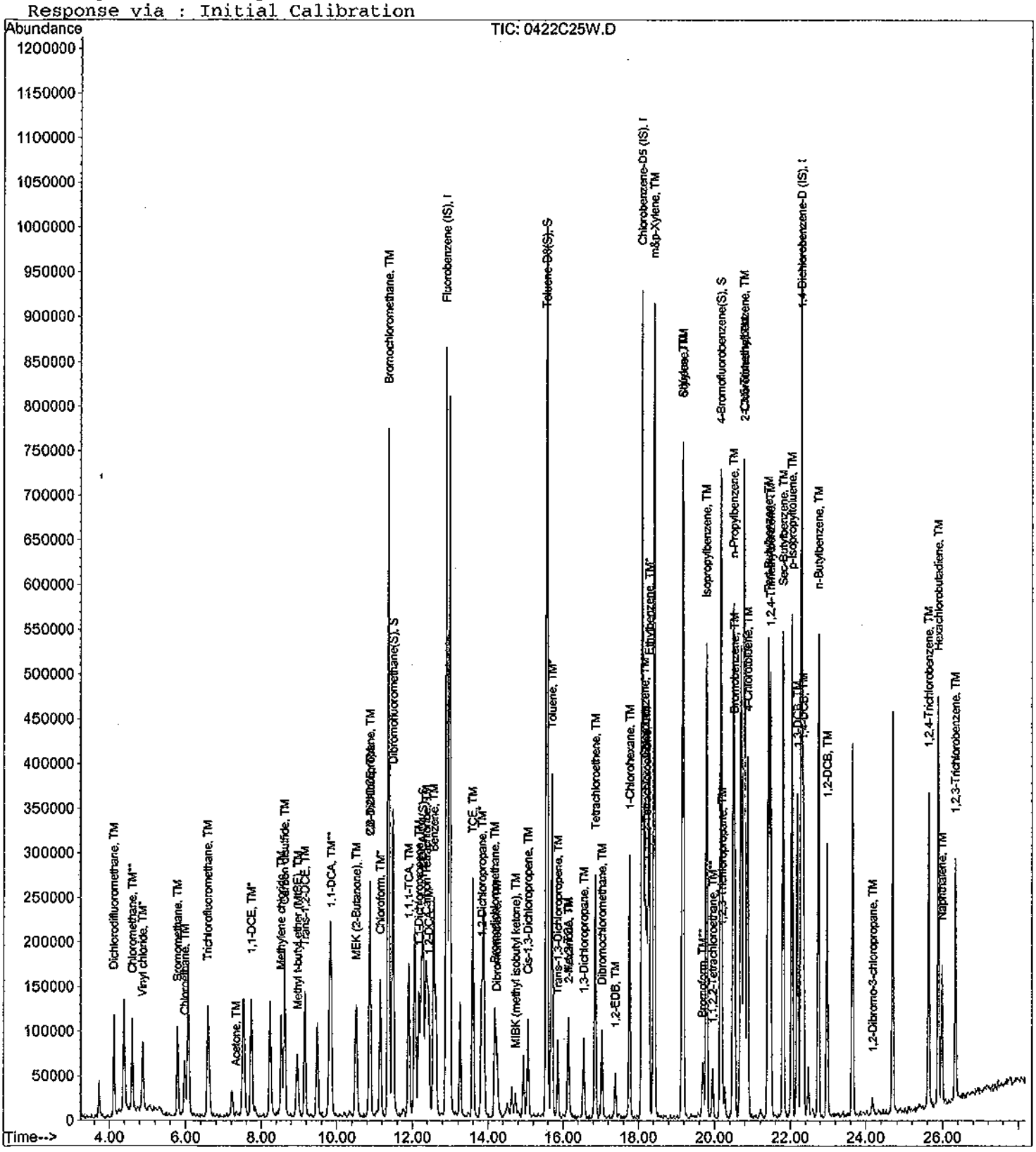
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C25W.D Vial: 1
Acq On : 23 Apr 11 7:28 Operator: RS
Sample : 110422A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:51 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 04475
Date Analyzed: 04/25/11
Instrument: Chico
Initial Cal. Date: 04/22/11
Data File: 0425C02W.D

		Compound	MEAN	CCRF	%D		%Drift	
1	I	Fluorobenzene (IS)	ISTD			I		
2	TM	Dichlorodifluoromethane	0.8305	0.9519	15	TM		
3	TM**	Chloromethane	0.7750	0.8399	8.4	TM**		
4	TM*	Vinyl chloride	0.2212	0.2061	6.8	TM*		
5	TML	Bromomethane	0.1872	0.1922	2.7	TML	6.4	
6	TM	Chloroethane	0.5111	0.5726	12	TM		
7	TM	Trichlorofluoromethane	1.050	1.148	9.3	TM		
8	TML	Acetone	0.0744	0.0499	33	TML	1.1	
9	TM*	1,1-DCE	0.4919	0.5177	5.2	TM*		
10	TML	Methylene chloride	0.5653	0.4983	12	TML	0.85	
11	TM	Carbon disulfide	2.024	2.479	22	TM		NT
12	TM	Methyl t-butyl ether (MtBE)	0.8341	0.7539	9.6	TM		
13	TML	Trans-1,2-DCE	0.5864	0.5712	2.6	TML	3.8	
14	TM**	1,1-DCA	1.019	1.045	2.5	TM**		
15	TM	MEK (2-Butanone)	0.1939	0.1677	13	TM		
16	TM	Cis-1,2-DCE	0.7277	0.7397	1.6	TM		
17	TM	2,2-Dichloropropane	0.9418	0.9802	4.1	TM		
18	TM*	Chloroform	1.096	1.073	2.1	TM*		
19	TM	Bromochloromethane	0.2437	0.2453	0.66	TM		
20	S	Dibromofluoromethane(S)	0.7983	0.6526	18	S		
21	TM	1,1,1-TCA	1.064	1.057	0.69	TM		
22	TM	1,1-Dichloropropene	0.6943	0.7448	7.3	TM		
23	S	1,2-DCA-D4(S)	0.5091	0.3856	24	S		
24	TM	Carbon Tetrachloride	0.9332	0.9371	0.42	TM		
25	TM	1,2-DCA	0.4596	0.4211	8.4	TM		
26	TM	Benzene	2.124	2.216	4.3	TM		
27	TM	TCE	0.6987	0.6867	1.7	TM		
28	TM*	1,2-Dichloropropane	0.5214	0.4915	5.7	TM*		
29	TM	Bromodichloromethane	0.7379	0.6691	9.3	TM		
30	TM	Dibromomethane	0.2520	0.2277	9.6	TM		
31	TM	Cis-1,3-Dichloropropene	0.7392	0.6985	5.5	TM		
32	TM*	Toluene	1.563	1.624	3.9	TM*		
33	TM	Trans-1,3-Dichloropropene	0.5522	0.4855	12	TM		
34	TM	1,1,2-TCA	0.2502	0.2356	5.9	TM		
35	I	Chlorobenzene-D5 (IS)	ISTD			I		
36	S	Toluene-D8(S)	3.556	3.473	2.3	S		
37	TM	1,2-EDB	0.4402	0.4209	4.4	TM		
38	TM	Tetrachloroethene	0.8780	0.9483	8.0	TM		
39	TM	1-Chlorohexane	1.384	1.620	17	TM		
40	TM	1,1,1,2-Tetrachloroethane	0.9000	0.8939	0.67	TM		
		Average			8.2			

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 64475
Date Analyzed: 04/25/11
Instrument: Chico
Cal. Date: 04/22/11
Data File: 0425C02W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	m&p-Xylene	1.746	1.859	6.5	TM	
42	TM	o-Xylene	1.721	1.876	9.0	TM	
43	TM	Styrene	1.271	1.237	2.7	TM	
44	SL	4-Bromofluorobenzene(S)	1.425	1.181	17	SL	0.47
45	TM	2-Hexanone	0.1292	0.1253	3.0	TM	
46	TM	1,3-Dichloropropane	0.7089	0.7007	1.2	TM	
47	TM	Dibromochloromethane	0.6916	0.6337	8.4	TM	
48	TM**	Chlorobenzene	2.528	2.644	4.6	TM**	
49	TM*	Ethylbenzene	4.261	4.539	6.6	TM*	
50	TM**	Bromoform	0.4085	0.3794	7.1	TM**	
51	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
52	TM	MIBK (methyl isobutyl ketone)	0.4153	0.4020	3.2	TM	
53	TM	Isopropylbenzene	8.558	9.234	7.9	TM	
54	TM**	1,1,2,2-Tetrachloroethane	0.7025	0.6944	1.1	TM**	
55	TM	1,2,3-Trichloropropane	0.2201	0.2015	8.6	TM	
56	TM	Bromobenzene	2.051	1.950	4.9	TM	
57	TM	n-Propylbenzene	9.606	10.3	6.9	TM	
58	TM	2-Chlorotoluene	6.367	6.508	2.2	TM	
59	TM	1,3,5-Trimethylbenzene	6.731	7.006	4.1	TM	
60	TM	4-Chlorotoluene	5.509	5.215	5.3	TM	
61	TM	Tert-Butylbenzene	7.385	7.894	6.9	TM	
62	TM	1,2,4-Trimethylbenzene	6.795	7.218	6.2	TM	
63	TM	Sec-Butylbenzene	9.513	10.2	7.1	TM	
64	TM	p-Isopropyltoluene	7.898	8.562	8.4	TM	
65	TM	1,3-DCB	4.202	4.088	2.7	TM	
66	TM	1,4-DCB	3.818	3.716	2.7	TM	
67	TM	n-Butylbenzene	6.625	7.045	6.3	TM	
68	TM	1,2-DCB	3.362	3.315	1.4	TM	
69	TM	1,2-Dibromo-3-chloropropane	0.1869	0.1750	6.3	TM	
70	TM	1,2,4-Trichlorobenzene	1.172	1.053	10	TM	
71	TM	Hexachlorobutadiene	0.5758	0.5381	6.5	TM	
72	TM	Naphthalene	1.242	1.146	7.8	TM	
73	TM	1,2,3-Trichlorobenzene	2.334	2.000	14	TM	
74							
75							
76							
77							
78							
79							
80							
		Average			6.1		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C02W.D Vial: 1
Acq On : 25 Apr 11 11:17 Operator: RS
Sample : 110425A LCS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:38 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.88	96	540425	25.00000 ppb		-0.03
35) Chlorobenzene-D5 (IS)	18.07	117	386816	25.00000 ppb		-0.03
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	216064	25.00000 ppb		-0.03
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.45	111	352664	20.43500 ppb		-0.04
Spiked Amount 23.521			Recovery = 86.882%			
23) 1,2-DCA-D4(S)	12.26	65	208392	18.93559 ppb		-0.04
Spiked Amount 22.321			Recovery = 84.836%			
36) Toluene-D8(S)	15.54	98	1343459	24.41813 ppb		-0.03
Spiked Amount 26.002			Recovery = 93.909%			
44) 4-Bromofluorobenzene(S)	20.14	95	456844	25.11776 ppb		-0.03
Spiked Amount 26.339			Recovery = 95.366%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.11	85	205770	11.46215 ppb		94
3) Chloromethane	4.58	50	181555	10.83640 ppb		97
4) Vinyl chloride	4.85	62	44560	9.32041 ppb		97
5) Bromomethane	5.77	94	41547	9.36045 ppb		90
6) Chloroethane	5.96	64	123777	11.20294 ppb		93
7) Trichlorofluoromethane	6.56	101	248064	10.92554 ppb		98
8) Acetone	7.31	43	10792	9.88570 ppb	#	83
9) 1,1-DCE	7.71	96	111904	10.52404 ppb		90
10) Methylene chloride	8.51	84	107719	10.08457 ppb		99
11) Carbon disulfide	8.60	76	535881	12.24944 ppb		97
12) Methyl t-butyl ether (MtBE	8.93	73	162976	9.03918 ppb		97
13) Trans-1,2-DCE	9.13	96	123483	10.37617 ppb		97
14) 1,1-DCA	9.83	63	225845	10.25350 ppb		99
15) MEK (2-Butanone)	10.48	43	36257	8.65178 ppb		97
16) Cis-1,2-DCE	10.85	96	159894	10.16487 ppb		91
17) 2,2-Dichloropropane	10.84	77	211892	10.40775 ppb		100
18) Chloroform	11.12	83	231899	9.78528 ppb		99
19) Bromochloromethane	11.35	128	53031	10.06560 ppb		97
21) 1,1,1-TCA	11.87	97	228464	9.93121 ppb		94
22) 1,1-Dichloropropene	12.14	75	160994	10.72671 ppb		94
24) Carbon Tetrachloride	12.33	117	202571	10.04155 ppb		96
25) 1,2-DCA	12.41	62	91030	9.16210 ppb		97
26) Benzene	12.54	78	479103	10.43308 ppb		98
27) TCE	13.57	95	148446	9.82851 ppb		91
28) 1,2-Dichloropropane	13.79	63	106253	9.42752 ppb		99
29) Bromodichloromethane	14.14	83	144637	9.06802 ppb		99
30) Dibromomethane	14.20	93	49232	9.03892 ppb		78
31) Cis-1,3-Dichloropropene	15.04	75	150985	9.44851 ppb		95
32) Toluene	15.67	92	351016	10.38704 ppb		98
33) Trans-1,3-Dichloropropene	15.83	75	104951	8.79177 ppb		97
34) 1,1,2-TCA	16.11	83	50923	9.41365 ppb		97
37) 1,2-EDB	17.35	107	65127	9.56103 ppb	#	94
38) Tetrachloroethene	16.82	164	146734	10.80164 ppb		96
39) 1-Chlorohexane	17.73	91	250628	11.70063 ppb		91
40) 1,1,1,2-Tetrachloroethane	18.19	131	138315	9.93271 ppb		97
41) m&p-Xylene	18.38	106	575357	21.29787 ppb		94
42) o-Xylene	19.12	106	290188	10.89600 ppb		97
43) Styrene	19.14	78	191367	9.73351 ppb		91
45) 2-Hexanone	16.13	43	19384	9.69836 ppb	#	75

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C02W.D Vial: 1
Acq On : 25 Apr 11 11:17 Operator: RS
Sample : 110425A LCS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:38 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.52	76	108419	9.88481	ppb		97
47)	Dibromochloromethane	17.00	129	98046	9.16352	ppb		80
48)	Chlorobenzene	18.13	112	409041	10.45759	ppb		96
49)	Ethylbenzene	18.24	91	702253	10.65047	ppb		97
50)	Bromoform	19.67	173	58697	9.28598	ppb		97
52)	MIBK (methyl isobutyl keto	14.69	43	34747	9.68070	ppb		84
53)	Isopropylbenzene	19.76	105	798075	10.79031	ppb		99
54)	1,1,2,2-Tetrachloroethane	19.93	83	60016	9.88544	ppb		89
55)	1,2,3-Trichloropropane	20.18	110	17416	9.15362	ppb	#	68
56)	Bromobenzene	20.50	156	168512	9.50520	ppb		96
57)	n-Propylbenzene	20.47	91	887278	10.68702	ppb		97
58)	2-Chlorotoluene	20.76	91	562481	10.22182	ppb		99
59)	1,3,5-Trimethylbenzene	20.74	105	605527	10.40982	ppb		96
60)	4-Chlorotoluene	20.84	91	450696	9.46601	ppb		96
61)	Tert-Butylbenzene	21.38	119	682261	10.68932	ppb		97
62)	1,2,4-Trimethylbenzene	21.44	105	623832	10.62265	ppb		98
63)	Sec-Butylbenzene	21.77	105	880265	10.70617	ppb		97
64)	p-Isopropyltoluene	22.02	119	739955	10.84032	ppb		96
65)	1,3-DCB	22.15	146	353278	9.72853	ppb		99
66)	1,4-DCB	22.32	146	321125	9.73254	ppb		96
67)	n-Butylbenzene	22.72	91	608854	10.63370	ppb		99
68)	1,2-DCB	22.95	146	286526	9.86192	ppb		97
69)	1,2-Dibromo-3-chloropropan	24.16	157	15128	9.36734	ppb		88
70)	1,2,4-Trichlorobenzene	25.61	180	91040	8.99066	ppb		99
71)	Hexachlorobutadiene	25.86	223	46504	9.34570	ppb		90
72)	Naphthalene	25.95	128	99032	9.22453	ppb		99
73)	1,2,3-Trichlorobenzene	26.31	180	172815	8.56733	ppb		96

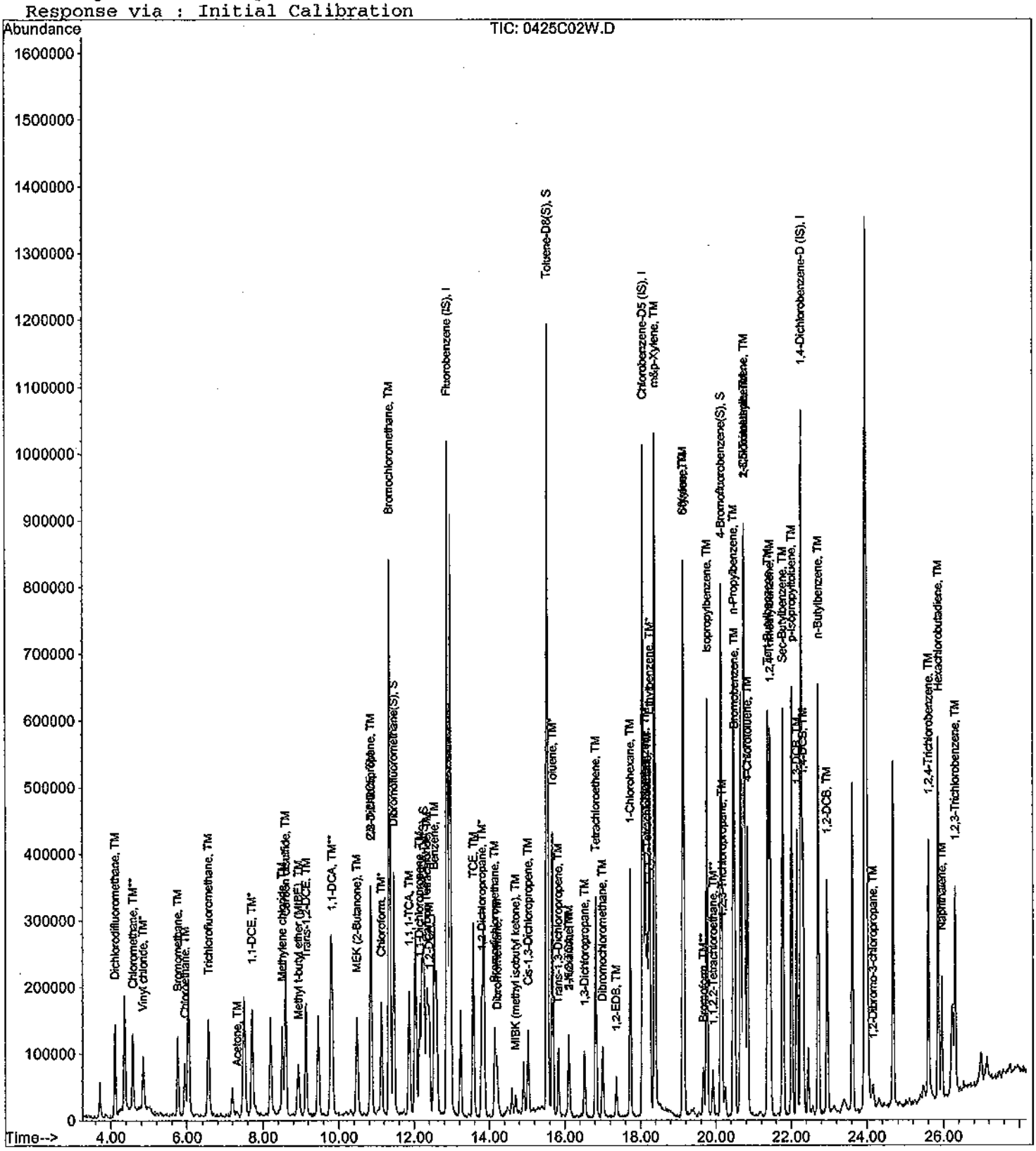
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C02W.D Vial: 1
Acq On : 25 Apr 11 11:17 Operator: RS
Sample : 110425A LCS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:38 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 64475

Case No: Initial Cal. Date: 04/22/11

Matrix: Instrument: Chico

Initials:

0422C14W.D 0422C15W.D 0422C16W.D 0422C17W.D 0422C18W.D 0422C19W.D 0422C20W.D

		Compound	20	50	100	300	600	800	1000				Avg	%RSD		r^2
1	I	Fluorobenzene (IS)	ISTD													
2	HMBTL	Gasoline	30.0	12.1	7.178	3.536	2.609	2.583	2.348				8.6	117	HMBTL	0.997
3	S	Dibromofluoromethane(S)	1.378	1.372	1.419	1.543	1.292	1.364	1.348				1.4	5.6	S	
4	I	Chlorobenzene-D5 (IS)	ISTD													
5	S	Toluene-D8(S)	3.043	3.195	3.178	3.142	3.128	3.193	3.250				3.2	2.1	S	
6	S	4-Bromofluorobenzene(S)	2.098	2.189	2.231	2.100	2.078	2.028	1.996				2.1	4.0	S	
7	I	1,4-Dichlorobenzene-D (IS)	ISTD													
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
32																
33																
34																
35																

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C14W.D Vial: 1
Acq On : 23 Apr 11 1:03 Operator: RS
Sample : Vol Std 4-22-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	856207	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	954704	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1016439	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.49	TIC	1110214	23.35498	ppb	0.00
Spiked Amount 23.521			Recovery =	99.294%		
5) Toluene-D8(S)	15.56	TIC	3021955	25.03151	ppb	0.00
Spiked Amount 26.002			Recovery =	96.270%		
6) 4-Bromofluorobenzene(S)	20.16	TIC	2110312	26.27634	ppb	0.00
Spiked Amount 26.339			Recovery =	99.761%		
Target Compounds						Qvalue
2) Gasoline	15.56	TIC	20556680m	69.08984	ppb	100

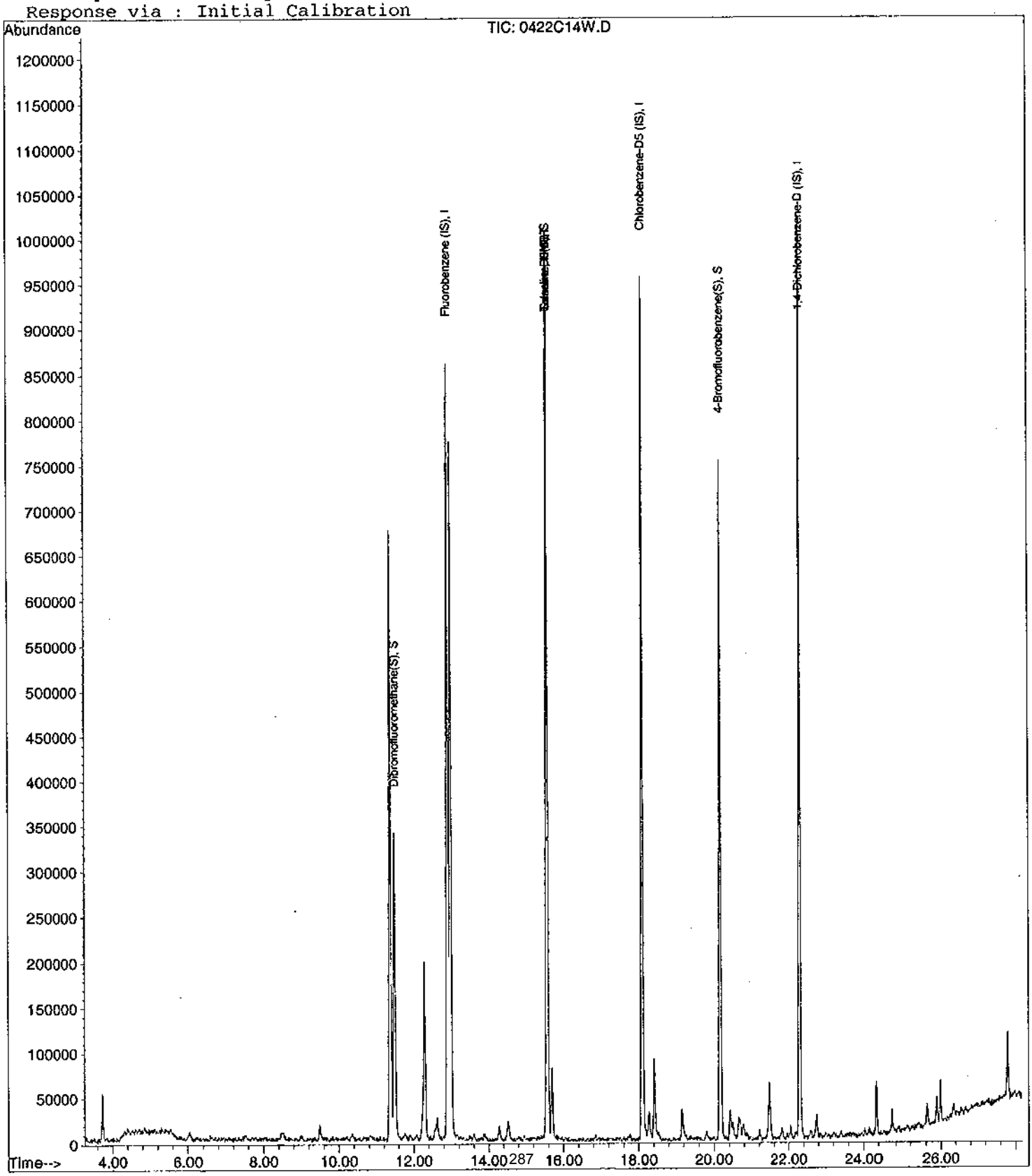
Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C14W.D
Acq On : 23 Apr 11 1:03
Sample : Vol Std 4-22-11@20ug/L
Misc : Water 10ml w/IS: 04-12-11

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

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C15W.D Vial: 1
Acq On : 23 Apr 11 1:38 Operator: RS
Sample : Vol Std 4-22-11@50ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

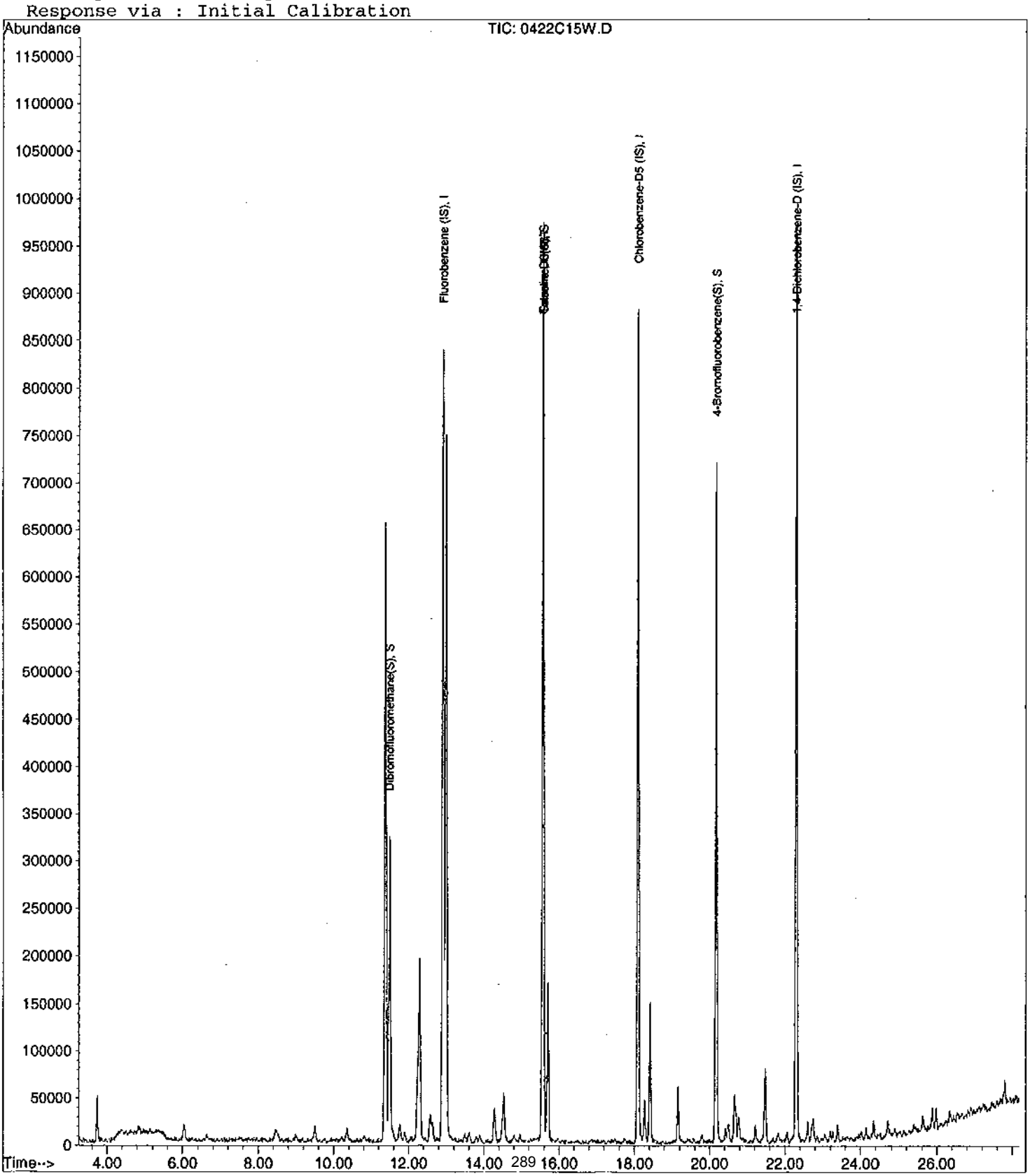
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	836413	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	880090	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	966639	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.48	TIC	1079958	23.25614	ppb	0.00
Spiked Amount 23.521			Recovery =	98.873%		
5) Toluene-D8(S)	15.56	TIC	2924993	26.28243	ppb	0.00
Spiked Amount 26.002			Recovery =	101.077%		
6) 4-Bromofluorobenzene(S)	20.17	TIC	2030076	27.42030	ppb	0.00
Spiked Amount 26.339			Recovery =	104.104%		
Target Compounds						Qvalue
2) Gasoline	15.56	TIC	20251071m	69.67344	ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C15W.D Vial: 1
Acq On : 23 Apr 11 1:38 Operator: RS
Sample : Vol Std 4-22-11@50ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C16W.D Vial: 1
Acq On : 23 Apr 11 2:13 Operator: RS
Sample : Vol Std 4-22-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	796817	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	850460	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.30	TIC	938392	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.48	TIC	1063563	24.04120	ppb	0.00
Spiked Amount 23.521			Recovery = 102.211%			
5) Toluene-D8(S)	15.56	TIC	2810850	26.13675	ppb	0.00
Spiked Amount 26.002			Recovery = 100.519%			
6) 4-Bromofluorobenzene(S)	20.17	TIC	1999437	27.94736	ppb	0.00
Spiked Amount 26.339			Recovery = 106.105%			
Target Compounds						Qvalue
2) Gasoline	15.56	TIC	22879186m	82.62700	ppb	100

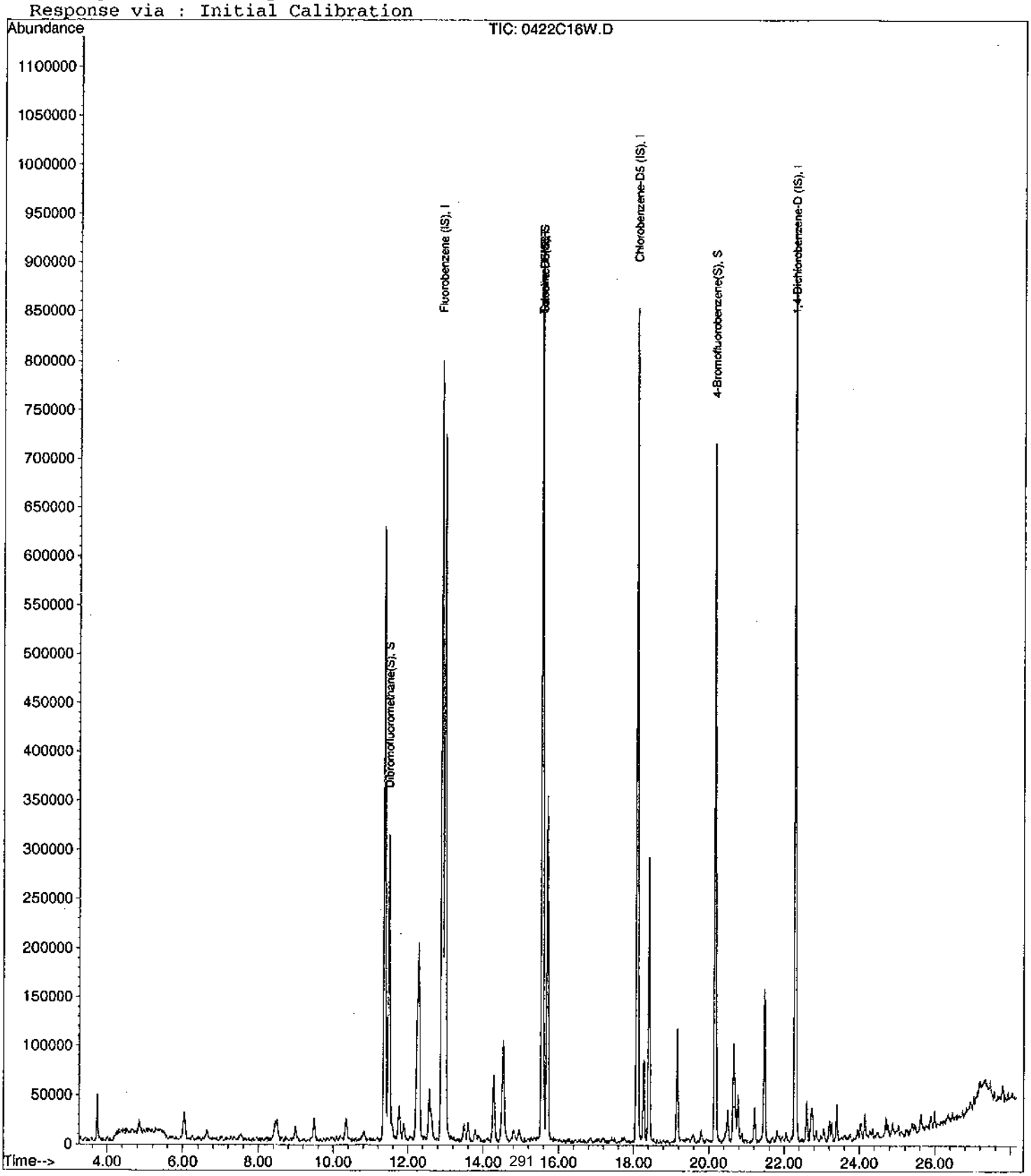
(#) = qualifier out of range (m) = manual integration
0422C16W.D GAS.M Mon May 16 19:47:11 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C16W.D Vial: 1
Acq On : 23 Apr 11 2:13 Operator: RS
Sample : Vol Std 4-22-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C17W.D Vial: 1
Acq On : 23 Apr 11 2:48 Operator: RS
Sample : Vol Std 4-22-11@300ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	813193	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	892115	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	963258	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.48	TIC	1180225	26.14103 ppb	0.00
Spiked Amount 23.521			Recovery	= 111.139%	
5) Toluene-D8(S)	15.56	TIC	2915689	25.84569 ppb	0.00
Spiked Amount 26.002			Recovery	= 99.400%	
6) 4-Bromofluorobenzene(S)	20.17	TIC	1973777	26.30051 ppb	0.00
Spiked Amount 26.339			Recovery	= 99.856%	
Target Compounds					Qvalue
2) Gasoline	15.70	TIC	34503406m	122.09794 ppb	100

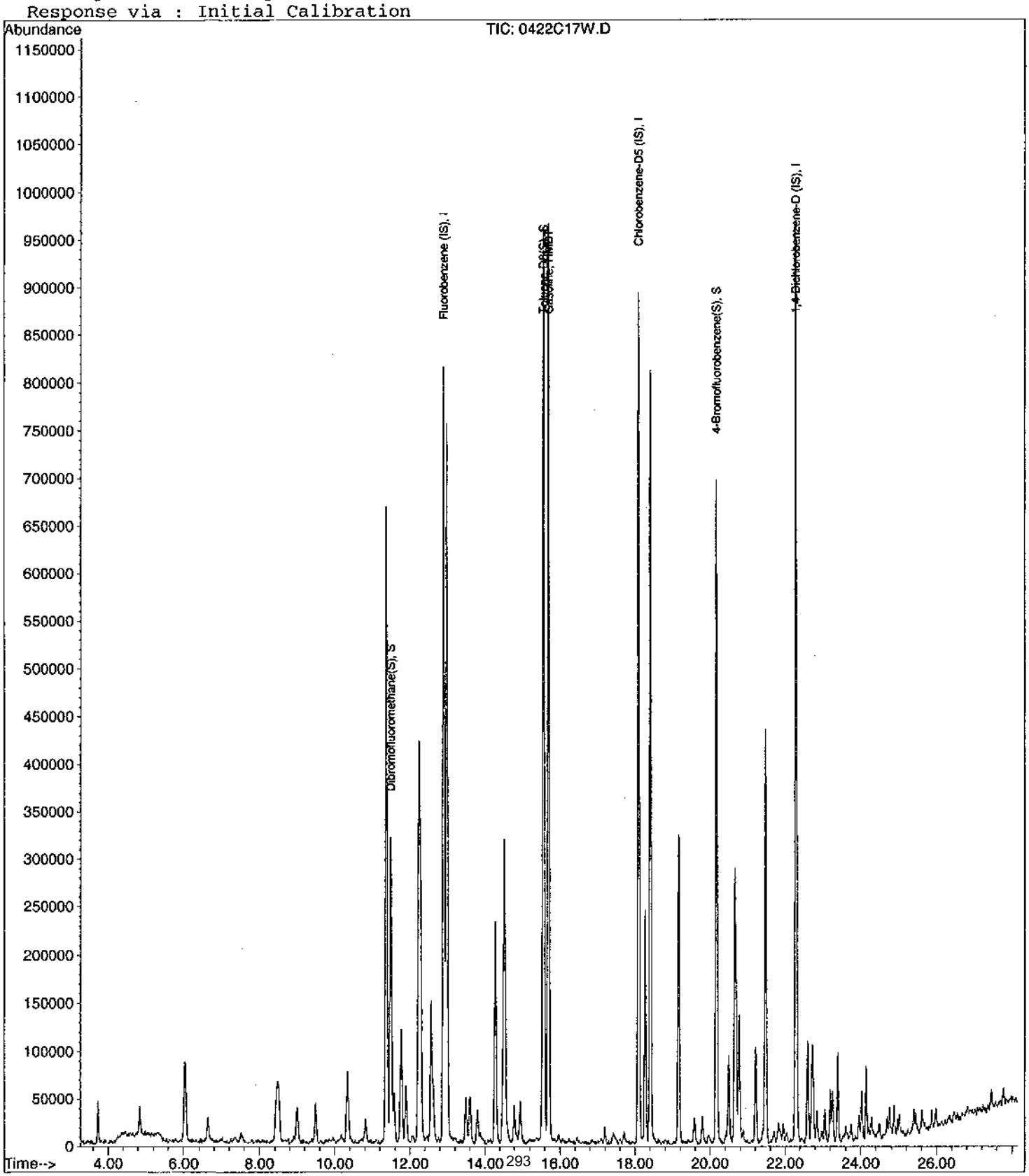
(#) = qualifier out of range (m) = manual integration
0422C17W.D GAS.M Mon May 16 19:47:11 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C17W.D Vial: 1
Acq On : 23 Apr 11 2:48 Operator: RS
Sample : Vol Std 4-22-11@300ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C18W.D Vial: 1
Acq On : 23 Apr 11 3:23 Operator: RS
Sample : Vol Std 4-22-11@600ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

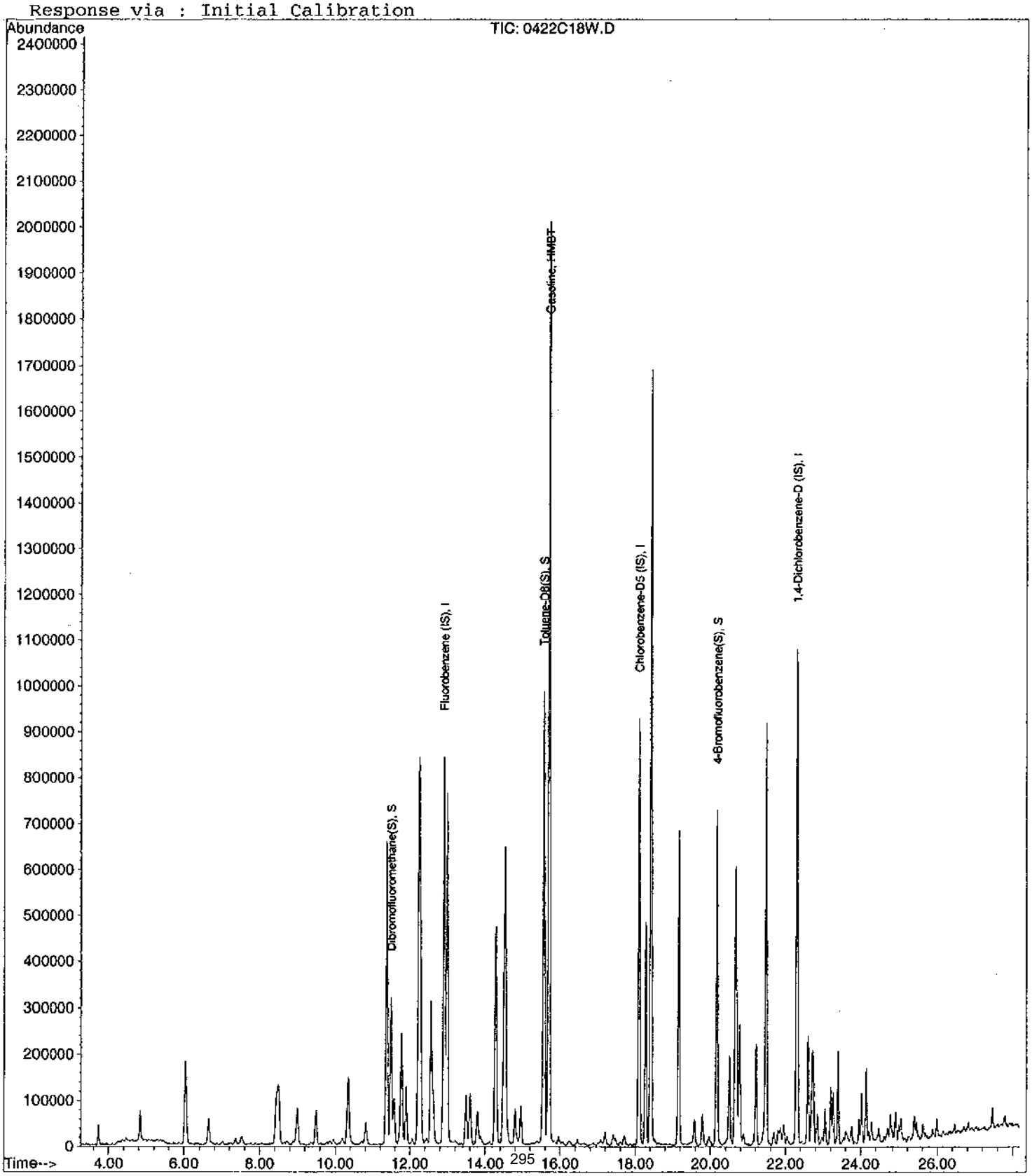
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	839656	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	926859	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1075159	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.49	TIC	1020589	21.89279	ppb	0.00
Spiked Amount 23.521			Recovery =	93.079%		
5) Toluene-D8(S)	15.56	TIC	3015328	25.72697	ppb	0.00
Spiked Amount 26.002			Recovery =	98.942%		
6) 4-Bromofluorobenzene(S)	20.16	TIC	2029523	26.02959	ppb	0.00
Spiked Amount 26.339			Recovery =	98.827%		
Target Compounds						Qvalue
2) Gasoline	15.70	TIC	52581715m	180.20771	ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C18W.D Vial: 1
Acq On : 23 Apr 11 3:23 Operator: RS
Sample : Vol Std 4-22-11@600ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C19W.D Vial: 1
Acq On : 23 Apr 11 3:58 Operator: RS
Sample : Vol Std 4-22-11@800ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

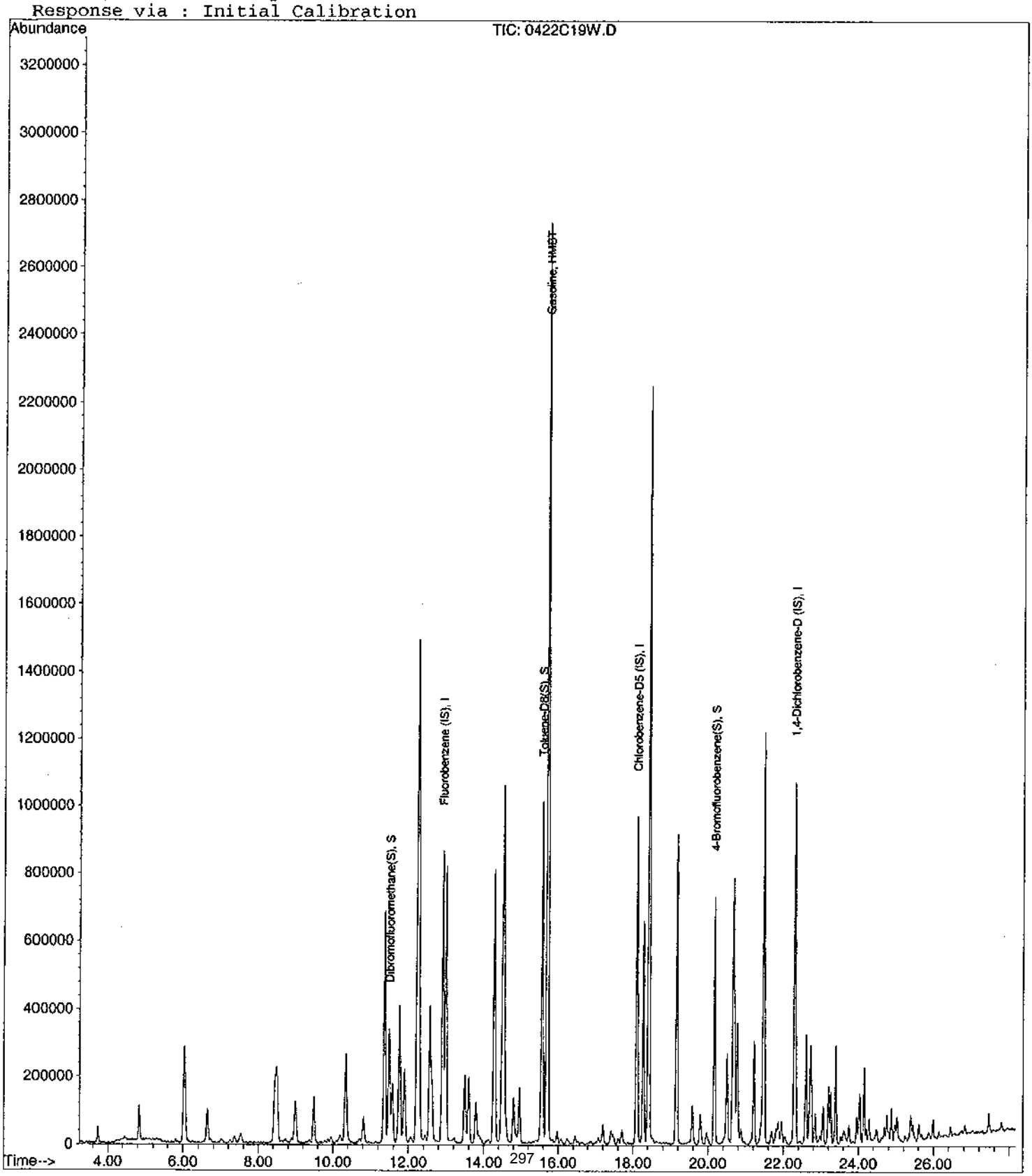
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	857506	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	966385	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1071041	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.49	TIC	1100423	23.11394 ppb	0.00
Spiked Amount 23.521			Recovery = 98.270%		
5) Toluene-D8(S)	15.56	TIC	3209042	26.25990 ppb	0.00
Spiked Amount 26.002			Recovery = 100.992%		
6) 4-Bromofluorobenzene(S)	20.16	TIC	2064699	25.39765 ppb	0.00
Spiked Amount 26.339			Recovery = 96.427%		
Target Compounds					Qvalue
2) Gasoline	15.70	TIC	70886684m	237.88524 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C19W.D Vial: 1
Acq On : 23 Apr 11 3:58 Operator: RS
Sample : Vol Std 4-22-11@800ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C20W.D Vial: 1
Acq On : 23 Apr 11 4:33 Operator: RS
Sample : Vol Std 4-22-11@1000ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

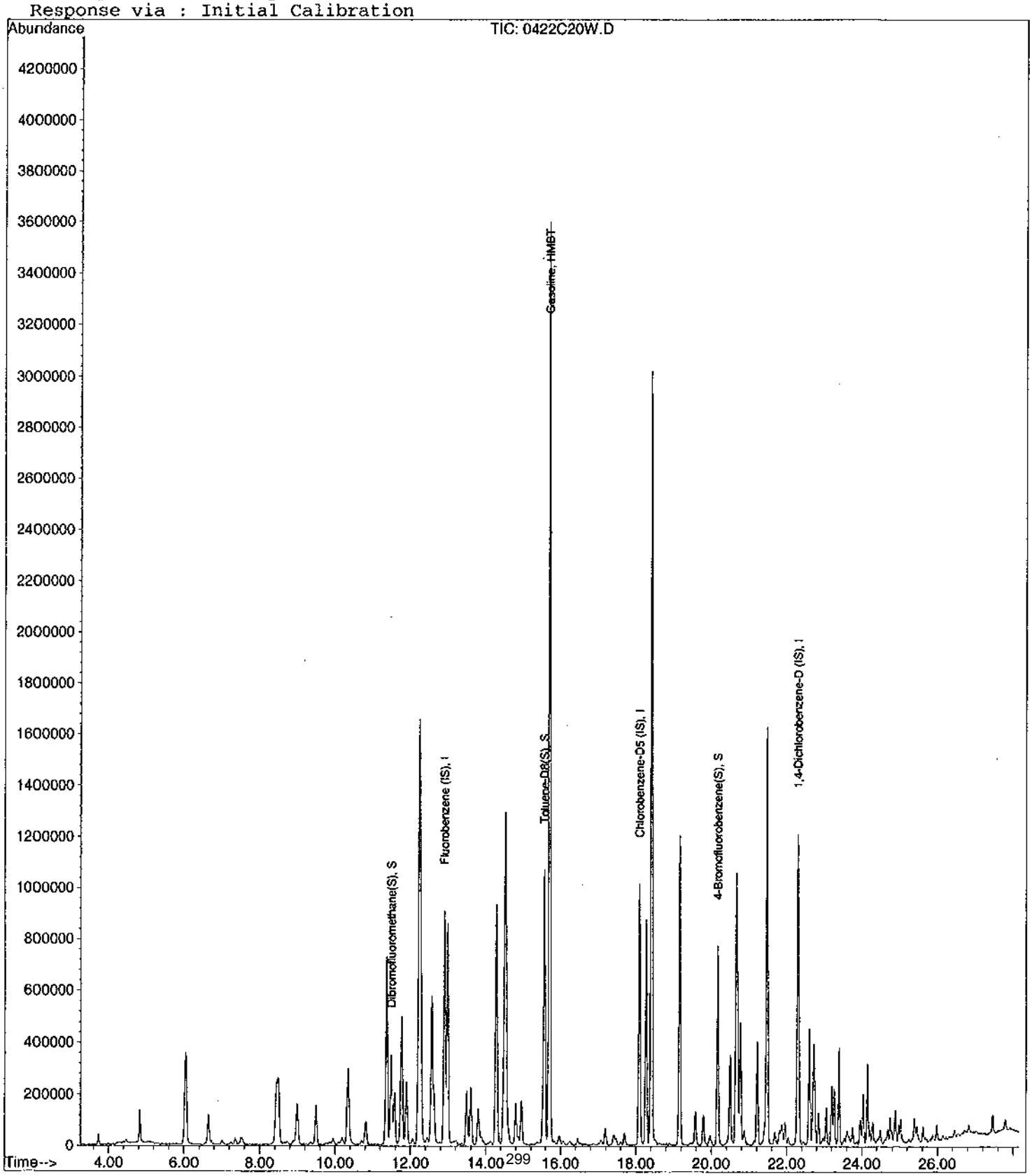
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	900499	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	1012189	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1201637	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.49	TIC	1142245	22.84692 ppb	0.00
Spiked Amount 23.521			Recovery =	97.134%	
5) Toluene-D8(S)	15.56	TIC	3421410	26.73076 ppb	0.00
Spiked Amount 26.002			Recovery =	102.804%	
6) 4-Bromofluorobenzene(S)	20.17	TIC	2128808	25.00126 ppb	0.00
Spiked Amount 26.339			Recovery =	94.920%	
Target Compounds					Qvalue
2) Gasoline	15.70	TIC	84574991m	270.27056 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C20W.D Vial: 1
Acq On : 23 Apr 11 4:33 Operator: RS
Sample : Vol Std 4-22-11@1000ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: Cenn75
Date Analyzed: 04/23/11
Instrument: Chico
Initial Cal. Date: 04/22/11
Data File: 0422C22W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	HMBT	Gasoline	8.625	3.470	60	HMBTL	6.9
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			60.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C22W.D Vial: 1
Acq On : 23 Apr 11 5:42 Operator: RS
Sample : GAS 300 ug/L STD(SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:48 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

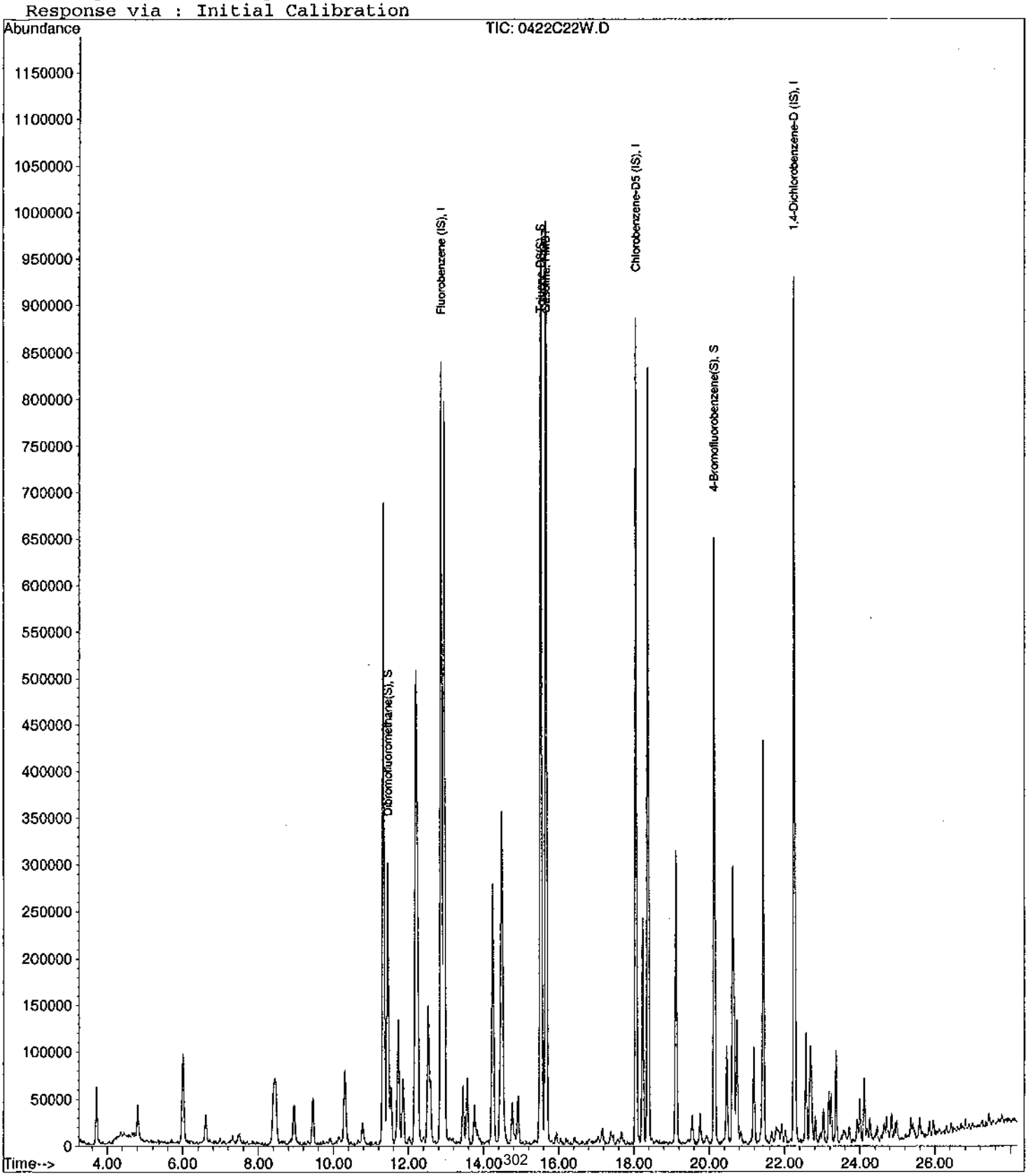
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.87	TIC	836807	25.00000	ppb	-0.03
4) Chlorobenzene-D5 (IS)	18.07	TIC	884518	25.00000	ppb	-0.03
7) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	926523	25.00000	ppb	-0.02
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.45	TIC	805863	17.34553	ppb	-0.03
Spiked Amount 23.521			Recovery =	73.747%		
5) Toluene-D8(S)	15.53	TIC	2907375	25.99334	ppb	-0.03
Spiked Amount 26.002			Recovery =	99.965%		
6) 4-Bromofluorobenzene(S)	20.14	TIC	1784990	23.98922	ppb	-0.03
Spiked Amount 26.339			Recovery =	91.078%		
Target Compounds						Qvalue
2) Gasoline	15.66	TIC	34844648m	279.26444	ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C22W.D Vial: 1
Acq On : 23 Apr 11 5:42 Operator: RS
Sample : GAS 300 ug/L STD(SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:48 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: lemm75
Date Analyzed: 04/23/11
Instrument: Chico
Initial Cal. Date: 04/22/11
Data File: 0422C24W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	HMBT	Gasoline	8.625	3.630	58	HMBTL	1.8
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			58.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C24W.D Vial: 1
Acq On : 23 Apr 11 6:53 Operator: RS
Sample : GAS 300 ug/L STD Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:49 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

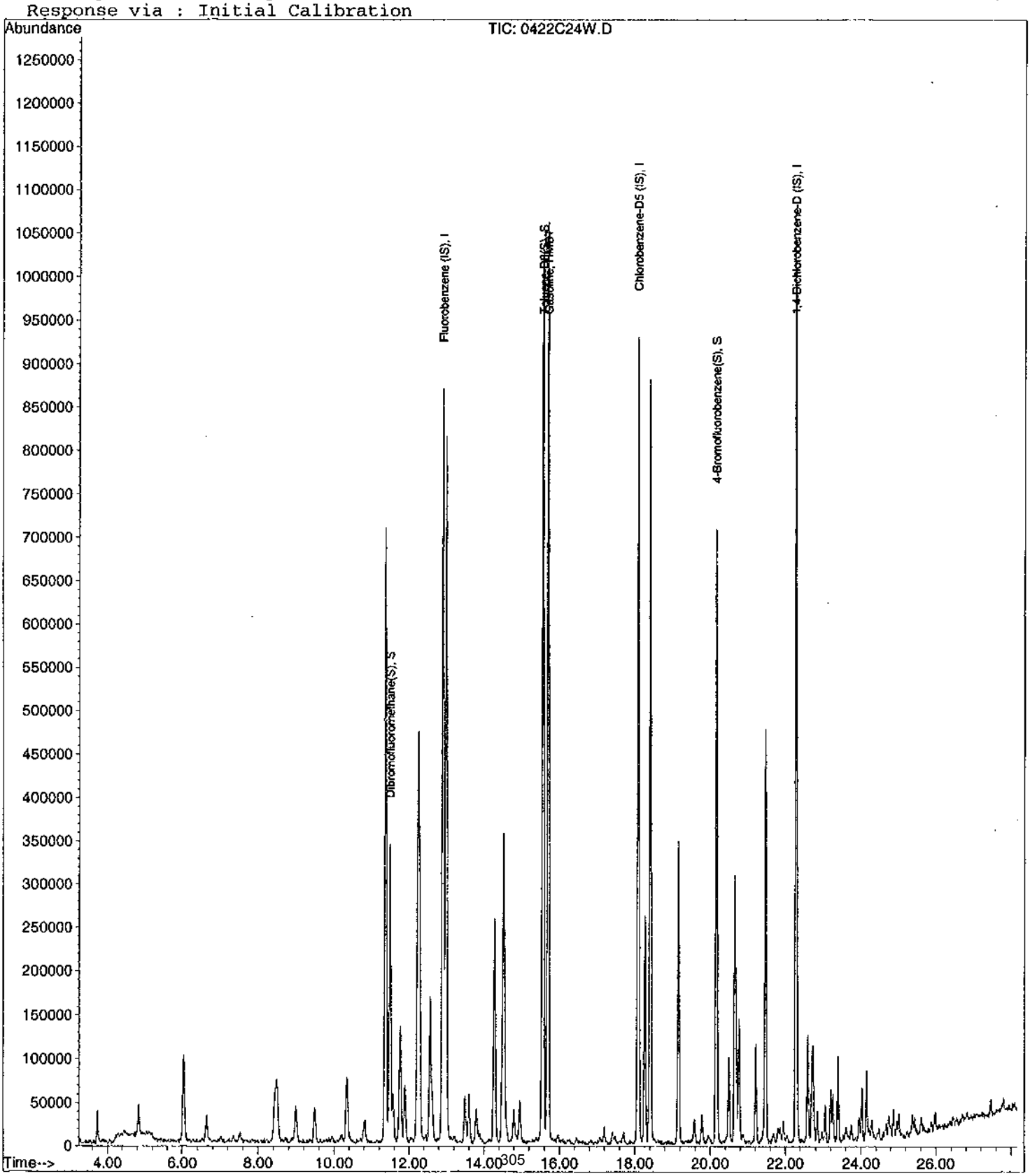
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	866223	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	927794	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1037380	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.48	TIC	1263809	26.27866 ppb	0.00
Spiked Amount 23.521			Recovery	= 111.726%	
5) Toluene-D8(S)	15.57	TIC	3137847	26.74533 ppb	0.00
Spiked Amount 26.002			Recovery	= 102.857%	
6) 4-Bromofluorobenzene(S)	20.16	TIC	2021181	25.89647 ppb	0.00
Spiked Amount 26.339			Recovery	= 98.318%	
Target Compounds					Qvalue
2) Gasoline	15.69	TIC	37730977m	305.42656 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C24W.D Vial: 1
Acq On : 23 Apr 11 6:53 Operator: RS
Sample : GAS 300 ug/L STD Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:49 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: [illegible]
Date Analyzed: 04/25/11
Instrument: Chico
Initial Cal. Date: 04/22/11
Data File: 0425C01W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	HMBT	Gasoline	8.625	3.853	55	HMBTL	14
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			55.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C01W.D Vial: 1
Acq On : 25 Apr 11 10:41 Operator: RS
Sample : GAS 300 ug/L STD Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:51 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.86	TIC	976520	25.00000	ppb	-0.04
4) Chlorobenzene-D5 (IS)	18.07	TIC	1068714	25.00000	ppb	-0.03
7) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	1150561	25.00000	ppb	-0.02
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.45	TIC	1232935	22.74105	ppb	-0.03
Spiked Amount 23.521			Recovery =	96.684%		
5) Toluene-D8(S)	15.53	TIC	3561736	26.35530	ppb	-0.03
Spiked Amount 26.002			Recovery =	101.358%		
6) 4-Bromofluorobenzene(S)	20.14	TIC	2220439	24.69814	ppb	-0.03
Spiked Amount 26.339			Recovery =	93.770%		
Target Compounds						Qvalue
2) Gasoline	15.66	TIC	45150273m	341.95262	ppb	100

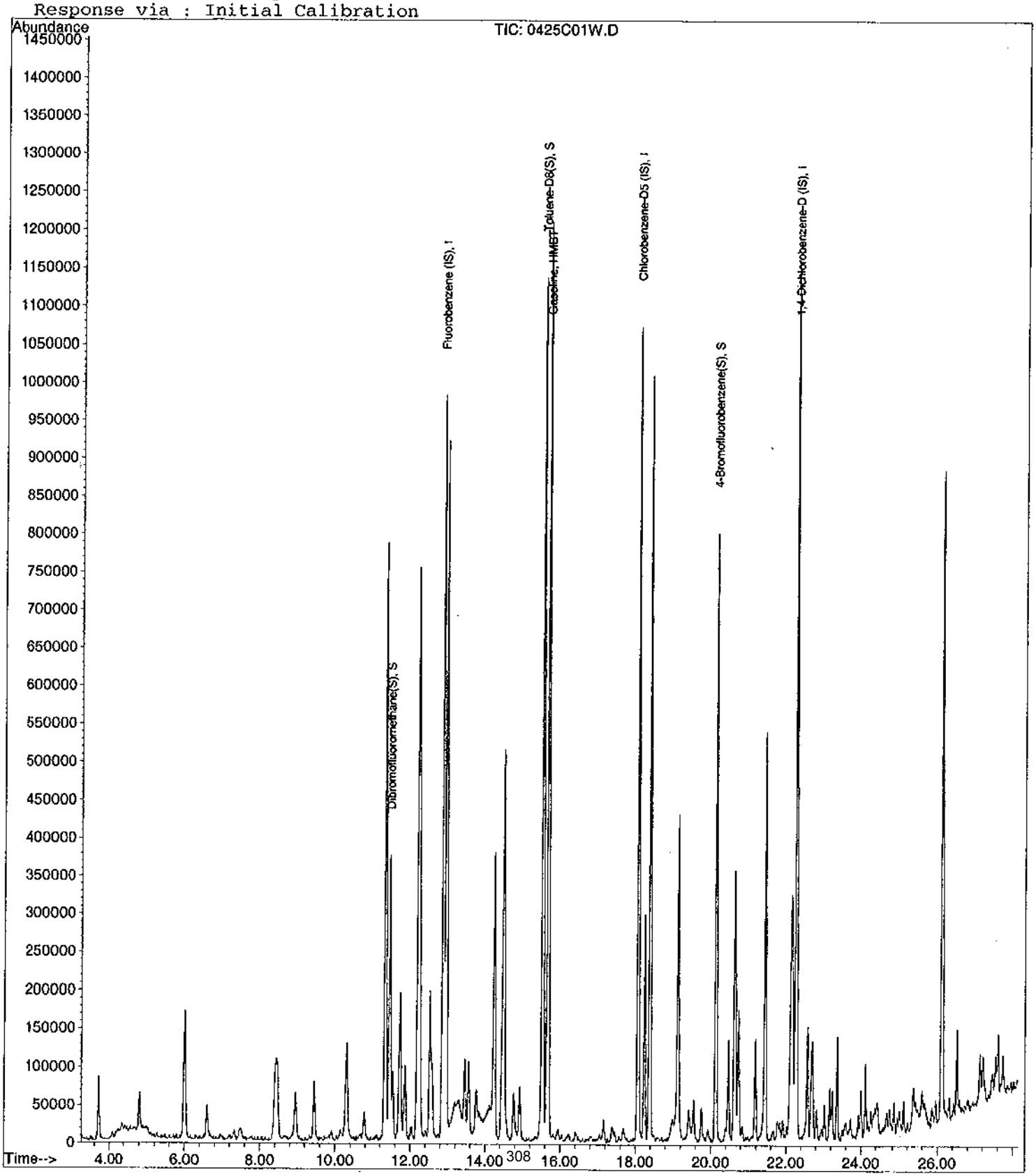
(#) = qualifier out of range (m) = manual integration
0425C01W.D GAS.M Mon May 16 19:51:40 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C01W.D Vial: 1
Acq On : 25 Apr 11 10:41 Operator: RS
Sample : GAS 300 ug/L STD Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:51 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA METHOD 8260B
Volatile Organic Compounds
Raw Data

Method Blank

EPA 8260B VOCs + Gas Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110422W-36312 - 155156**
Batch ID: #86RHB-110422AC

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	04/23/11	04/23/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	04/23/11	04/23/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	04/23/11	04/23/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	04/23/11	04/23/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	04/23/11	04/23/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	04/23/11	04/23/11
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	04/23/11	04/23/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	04/23/11	04/23/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	04/23/11	04/23/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	04/23/11	04/23/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	04/23/11	04/23/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	04/23/11	04/23/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	04/23/11	04/23/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	04/23/11	04/23/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	04/23/11	04/23/11
BLANK	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	04/23/11	04/23/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	04/23/11	04/23/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11

Quant Method:C86DODW.M
Run #:0422C30
Instrument:Chico
Sequence:C110422
Initials:LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 8:34:05 PM

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: **110422W-36312 - 155156**
Batch ID: #86RHB-110422AC

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	04/23/11	04/23/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	04/23/11	04/23/11
BLANK	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	04/23/11	04/23/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	04/23/11	04/23/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	04/23/11	04/23/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	04/23/11	04/23/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	04/23/11	04/23/11
BLANK	SURROGATE: 1,2-DICHLOROET	94.2	70-120			%	04/23/11	04/23/11
BLANK	SURROGATE: 4-BROMOFLUORO	96.3	75-120			%	04/23/11	04/23/11
BLANK	SURROGATE: DIBROMOFLUOR	91.6	85-115			%	04/23/11	04/23/11
BLANK	SURROGATE: TOLUENE-D8 (S)	89.6	85-120			%	04/23/11	04/23/11

Quant Method:C86DODW.M
Run #:0422C30
Instrument:Chico
Sequence:C110422
Initials:LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 8:34:05 PM

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C30W.D Vial: 1
Acq On : 23 Apr 11 10:58 Operator: RS
Sample : 110422A BLK-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 10:41 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.91	96	448832	25.00000 ppb	0.00
35) Chlorobenzene-D5 (IS)	18.10	117	329216	25.00000 ppb	0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	182080	25.00000 ppb	0.00
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.49	111	308835	21.54724 ppb	0.00
Spiked Amount 23.521			Recovery =	91.609%	
23) 1,2-DCA-D4(S)	12.30	65	192248	21.03348 ppb	0.00
Spiked Amount 22.321			Recovery =	94.231%	
36) Toluene-D8(S)	15.57	98	1090934	23.29754 ppb	0.00
Spiked Amount 26.002			Recovery =	89.601%	
44) 4-Bromofluorobenzene(S)	20.16	95	392298	25.35461 ppb	0.00
Spiked Amount 26.339			Recovery =	96.266%	

Target Compounds Qvalue

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

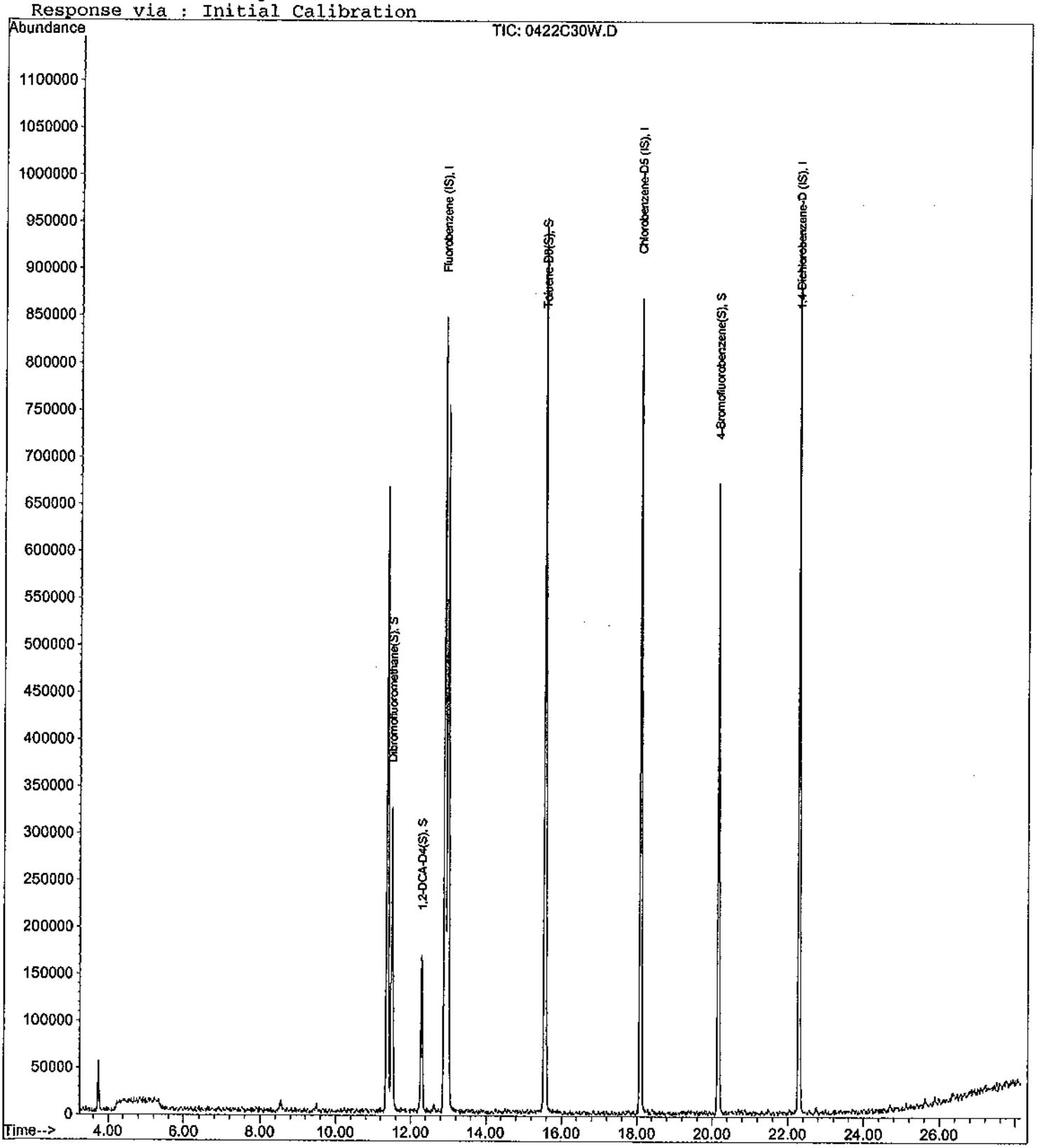
Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C30W.D
Acq On : 23 Apr 11 10:58
Sample : 110422A BLK-1WC
Misc : Water 10ml w/IS&S: 04-12-11

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

Quant Time: Apr 25 10:41 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: **110423W-36312 LCS - 155156**
Batch ID: #86RHB-110422AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	9.83	98.3	80-130
1,1,1-TRICHLOROETHANE	10.00	10.5	105	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	8.23	82.3	65-130
1,1,2-TRICHLOROETHANE	10.00	10.2	102	75-125
1,1-DICHLOROETHANE	10.00	10.0	100	70-135
1,1-DICHLOROETHENE	10.00	10.5	105	70-130
1,2,3-TRICHLOROPROPANE	10.00	10.2	102	75-125
1,2,4-TRICHLOROBENZENE	10.00	8.67	86.7	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.47	84.7	50-130
1,2-DIBROMOETHANE	10.00	9.14	91.4	70-130
1,2-DICHLOROBENZENE	10.00	9.46	94.6	70-120
1,2-DICHLOROETHANE	10.00	10.1	101	70-130
1,2-DICHLOROPROPANE	10.00	9.84	98.4	75-125
1,3-DICHLOROBENZENE	10.00	9.43	94.3	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	18.4	92.0	70-130
1,4-DICHLOROBENZENE	10.00	9.58	95.8	75-125
2-BUTANONE	10.00	8.81	88.1	30-150
4-METHYL-2-PENTANONE	10.00	9.69	96.9	60-135
ACETONE	10.00	8.47	84.7	40-140
BENZENE	10.00	10.1	101	80-120
BROMODICHLOROMETHANE	10.00	9.39	93.9	75-120
BROMOFORM	10.00	9.72	97.2	70-130
BROMOMETHANE	10.00	9.35	93.5	30-145
CARBON TETRACHLORIDE	10.00	10.2	102	65-140
CHLOROBENZENE	10.00	10.1	101	80-120
CHLORODIBROMOMETHANE	10.00	9.50	95.0	60-135

Comments: _____

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	04/23/11
Analysis Date :	04/23/11
Instrument :	Chico
Run :	0422C25
Initials :	LF

Printed: 05/16/11 8:34:07 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **110423W-36312 LCS - 155156**
Batch ID: #86RHB-110422AC

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	10.8	108	60-135
CHLOROFORM	10.00	10.1	101	65-135
CHLOROMETHANE	10.00	11.3	113	40-125
CIS-1,2-DICHLOROETHENE	10.00	9.66	96.6	70-125
ETHYLBENZENE	10.00	10.3	103	75-125
GASOLINE	300	279	93.0	75-125
HEXACHLOROBUTADIENE	10.00	9.14	91.4	50-140
METHYL TERT-BUTYL ETHER	10.00	9.44	94.4	65-125
METHYLENE CHLORIDE	10.00	10.2	102	55-140
STYRENE	10.00	9.62	96.2	65-135
TETRACHLOROETHENE	10.00	10.1	101	45-150
TOLUENE	10.00	10.7	107	75-120
TRANS-1,2-DICHLOROETHENE	10.00	10.5	105	60-140
TRICHLOROETHENE	10.00	11.4	114	70-125
VINYL CHLORIDE	10.00	11.7	117	50-145
XYLENES (TOTAL)	30.0	30.9	103	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	22.3	21.8	97.7	70-120
SURROGATE: 4-BROMOFLUOROBENZE	26.3	25.8	98.0	75-120
SURROGATE: DIBROMOFLUOROMETH	23.5	22.4	95.2	85-115
SURROGATE: TOLUENE-D8 (S)	26.0	23.4	90.0	85-120

Comments:

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	04/23/11
Analysis Date :	04/23/11
Instrument :	Chico
Run :	0422C25
Initials :	LF

Printed: 05/16/11 8:34:07 PM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C25W.D Vial: 1
Acq On : 23 Apr 11 7:28 Operator: RS
Sample : 110422A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:51 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.91	96	455808	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.09	117	350144	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.29	152	195456	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	325333	22.35090 ppb		0.00
Spiked Amount 23.521			Recovery =	95.028%		
23) 1,2-DCA-D4(S)	12.29	65	202265	21.79074 ppb		0.00
Spiked Amount 22.321			Recovery =	97.627%		
36) Toluene-D8(S)	15.56	98	1164463	23.38145 ppb		0.00
Spiked Amount 26.002			Recovery =	89.921%		
44) 4-Bromofluorobenzene(S)	20.16	95	424316	25.80744 ppb		0.00
Spiked Amount 26.339			Recovery =	97.982%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	169519	11.19582 ppb		95
3) Chloromethane	4.61	50	160312	11.34479 ppb		92
4) Vinyl chloride	4.89	62	47120	11.68554 ppb		94
5) Bromomethane	5.79	94	34992	9.34700 ppb		91
6) Chloroethane	5.98	64	100378	10.77170 ppb		98
7) Trichlorofluoromethane	6.59	101	215291	11.24239 ppb		90
8) Acetone	7.33	43	8052	8.47071 ppb	#	67
9) 1,1-DCE	7.75	96	94237	10.50780 ppb		90
10) Methylene chloride	8.53	84	91958	10.22223 ppb		93
11) Carbon disulfide	8.63	76	432683	11.72657 ppb		98
12) Methyl t-butyl ether (MtBE	8.96	73	143624	9.44465 ppb		96
13) Trans-1,2-DCE	9.16	96	105142	10.47839 ppb		95
14) 1,1-DCA	9.86	63	186480	10.03801 ppb		98
15) MEK (2-Butanone)	10.50	43	31123	8.80539 ppb	#	90
16) Cis-1,2-DCE	10.88	96	128211	9.66381 ppb		92
17) 2,2-Dichloropropane	10.88	77	143499	8.35689 ppb		99
18) Chloroform	11.16	83	202543	10.13316 ppb		98
19) Bromochloromethane	11.38	128	45197	10.17121 ppb		98
21) 1,1,1-TCA	11.90	97	203618	10.49431 ppb		98
22) 1,1-Dichloropropene	12.17	75	129404	10.22252 ppb		97
24) Carbon Tetrachloride	12.36	117	173058	10.17112 ppb		97
25) 1,2-DCA	12.44	62	84952	10.13766 ppb		99
26) Benzene	12.57	78	391444	10.10664 ppb		97
27) TCE	13.59	95	144995	11.38219 ppb		97
28) 1,2-Dichloropropane	13.83	63	93491	9.83511 ppb		98
29) Bromodichloromethane	14.17	83	126365	9.39320 ppb		99
30) Dibromomethane	14.23	93	47604	10.36253 ppb		89
31) Cis-1,3-Dichloropropene	15.06	75	125174	9.28746 ppb		98
32) Toluene	15.69	92	304468	10.68218 ppb		100
33) Trans-1,3-Dichloropropene	15.86	75	91560	9.09388 ppb		96
34) 1,1,2-TCA	16.14	83	46586	10.21064 ppb		94
37) 1,2-EDB	17.39	107	56335	9.13650 ppb		90
38) Tetrachloroethene	16.85	164	124765	10.14634 ppb		96
39) 1-Chlorohexane	17.76	91	204031	10.52286 ppb		93
40) 1,1,1,2-Tetrachloroethane	18.22	131	123864	9.82656 ppb		92
41) m&p-Xylene	18.41	106	503258	20.58009 ppb		96
42) o-Xylene	19.16	106	248174	10.29442 ppb		97
43) Styrene	19.18	78	171208	9.62020 ppb		99
45) 2-Hexanone	16.16	43	18269	10.09781 ppb	#	67

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C25W.D Vial: 1
Acq On : 23 Apr 11 7:28 Operator: RS
Sample : 110422A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:51 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46)	1,3-Dichloropropane	16.55	76	93178	9.38499	ppb	97
47)	Dibromochloromethane	17.03	129	91998	9.49879	ppb	92
48)	Chlorobenzene	18.16	112	359061	10.14123	ppb	97
49)	Ethylbenzene	18.28	91	614016	10.28756	ppb	99
50)	Bromoform	19.70	173	55612	9.71937	ppb	87
52)	MIBK (methyl isobutyl keto	14.73	43	31477	9.69430	ppb	80
53)	Isopropylbenzene	19.78	105	681130	10.18013	ppb	97
54)	1,1,2,2-Tetrachloroethane	19.95	83	45200	8.23002	ppb	87
55)	1,2,3-Trichloropropane	20.21	110	17588	10.21867	ppb	92
56)	Bromobenzene	20.53	156	150142	9.36194	ppb	98
57)	n-Propylbenzene	20.49	91	750768	9.99623	ppb	98
58)	2-Chlorotoluene	20.79	91	482009	9.68298	ppb	96
59)	1,3,5-Trimethylbenzene	20.77	105	515371	9.79407	ppb	95
60)	4-Chlorotoluene	20.87	91	416605	9.67255	ppb	98
61)	Tert-Butylbenzene	21.41	119	586192	10.15250	ppb	98
62)	1,2,4-Trimethylbenzene	21.47	105	536025	10.08982	ppb	96
63)	Sec-Butylbenzene	21.81	105	745549	10.02375	ppb	99
64)	p-Isopropyltoluene	22.04	119	613264	9.93157	ppb	99
65)	1,3-DCB	22.18	146	309737	9.42882	ppb	98
66)	1,4-DCB	22.35	146	285971	9.58092	ppb	97
67)	n-Butylbenzene	22.74	91	494267	9.54259	ppb	99
68)	1,2-DCB	22.98	146	248534	9.45620	ppb	96
69)	1,2-Dibromo-3-chloropropan	24.19	157	12368	8.46579	ppb	92
70)	1,2,4-Trichlorobenzene	25.63	180	79376	8.66526	ppb	95
71)	Hexachlorobutadiene	25.88	223	41160	9.14387	ppb	98
72)	Naphthalene	25.99	128	82808	8.52657	ppb	98
73)	1,2,3-Trichlorobenzene	26.34	180	160781	8.81114	ppb	95

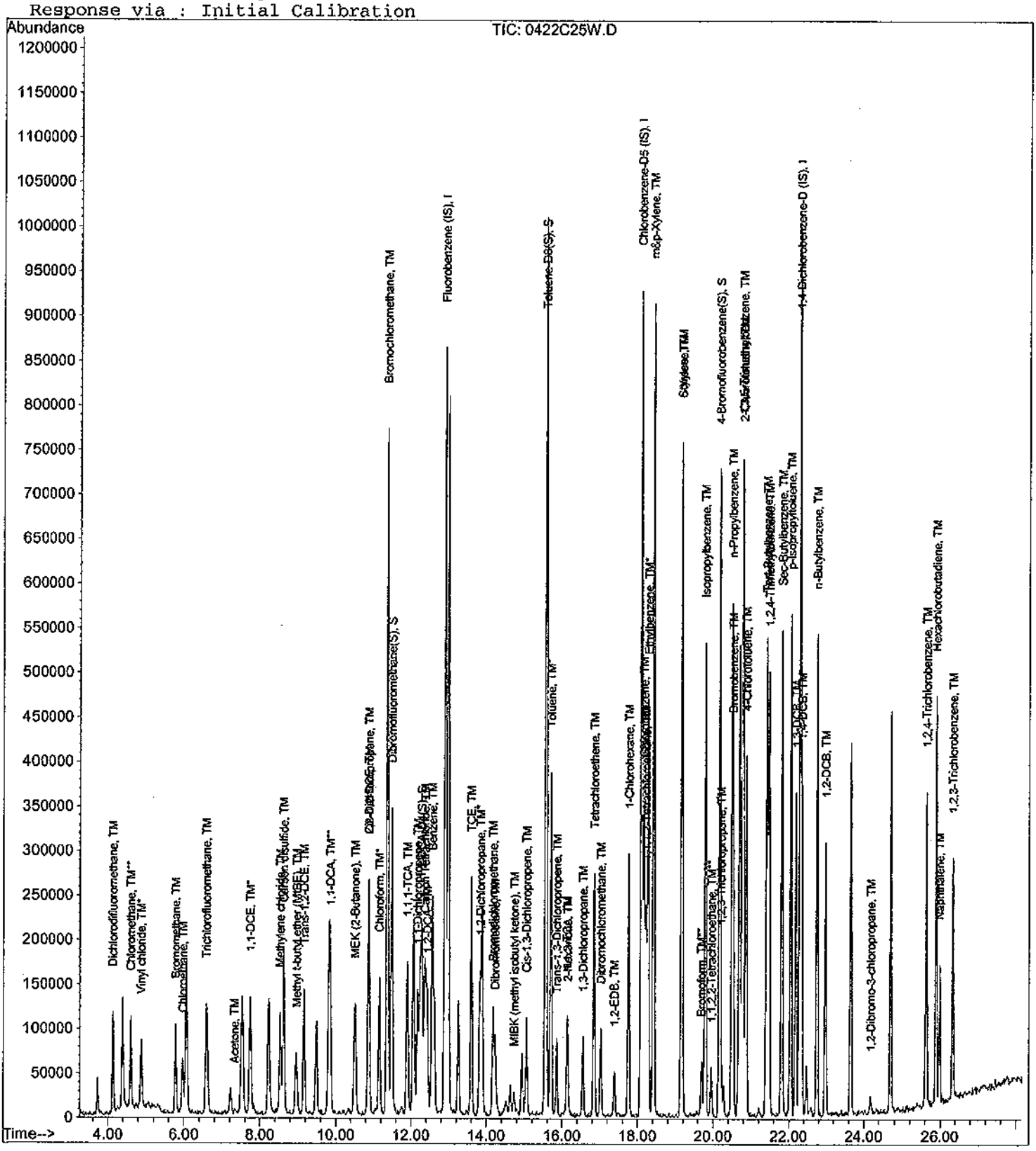
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C25W.D Vial: 1
Acq On : 23 Apr 11 7:28 Operator: RS
Sample : 110422A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 24 15:51 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36312 MS - 155156**
Batch ID: #86RHB-110422AC
Sample ID: AY36312
Client ID: ES020

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,1,1,2-TETRACHLOROETHANE	10.00	ND	9.67	9.49	96.7	94.9	80-130	1.9	30
1,1,1-TRICHLOROETHANE	10.00	ND	10.3	9.15	103	91.5	65-130	11.8	30
1,1,2,2-TETRACHLOROETHANE	10.00	ND	9.19	9.89	91.9	98.9	65-130	7.3	30
1,1,2-TRICHLOROETHANE	10.00	ND	10.5	10.3	105	103	75-125	1.9	30
1,1-DICHLOROETHANE	10.00	ND	10.4	9.84	104	98.4	70-135	5.5	30
1,1-DICHLOROETHENE	10.00	ND	10.7	10.3	107	103	70-130	3.8	30
1,2,3-TRICHLOROPROPANE	10.00	ND	9.91	10.3	99.1	103	75-125	3.9	30
1,2,4-TRICHLOROBENZENE	10.00	ND	8.84	8.02	88.4	80.2	65-135	9.7	30
1,2-DIBROMO-3-CHLOROPROPANE	10.00	ND	8.39	9.11	83.9	91.1	50-130	8.2	30
1,2-DIBROMOETHANE	10.00	ND	9.40	9.72	94.0	97.2	70-130	3.3	30
1,2-DICHLOROBENZENE	10.00	ND	8.73	9.10	87.3	91.0	70-120	4.2	30
1,2-DICHLOROETHANE	10.00	ND	10.1	8.66	101	86.6	70-130	15.4	30
1,2-DICHLOROPROPANE	10.00	ND	9.51	10.2	95.1	102	75-125	7.0	30
1,3-DICHLOROBENZENE	10.00	ND	8.64	9.07	86.4	90.7	75-125	4.9	30
1,3-DICHLOROPROPENE, TOTAL	20.0	ND	19.6	19.1	98.0	95.5	70-130	2.6	30
1,4-DICHLOROBENZENE	10.00	ND	9.02	9.50	90.2	95.0	75-125	5.2	30
2-BUTANONE	10.00	ND	9.91	9.43	99.1	94.3	30-150	5.0	30
4-METHYL-2-PENTANONE	10.00	ND	8.11	8.50	81.1	85.0	60-135	4.7	30
ACETONE	10.00	ND	8.43	8.46	84.3	84.6	40-140	0.36	30
BENZENE	10.00	ND	10.0	10.0	100	100	80-120	0.0	30
BROMODICHLOROMETHANE	10.00	ND	10.1	9.05	101	90.5	75-120	11.0	30
BROMOFORM	10.00	ND	9.50	9.32	95.0	93.2	70-130	1.9	30
BROMOMETHANE	10.00	ND	10.2	9.22	102	92.2	30-145	10.1	30
CARBON TETRACHLORIDE	10.00	ND	10.4	9.50	104	95.0	65-140	9.0	30
CHLOROBENZENE	10.00	ND	9.22	9.73	92.2	97.3	80-120	5.4	30

Comments: _____

Primary	SPK	DUP
Quant Method :	C86DODW.M	C86DODW.M
Extraction Date :	04/25/11	04/25/11
Analysis Date :	04/25/11	04/25/11
Instrument :	Chico	Chico
Run :	0425C07	0425C08
Initials :	LF	

Printed: 05/16/11 8:34:08 PM
APPL MSD SCII

Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: **110425W-36312 MS - 155156**
Batch ID: #86RHB-110422AC
Sample ID: AY36312
Client ID: ES020

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
CHLORODIBROMOMETHANE	10.00	ND	9.75	9.41	97.5	94.1	60-135	3.5	30
CHLOROETHANE	10.00	ND	9.90	10.0	99.0	100	60-135	1.0	30
CHLOROFORM	10.00	ND	10.3	9.72	103	97.2	65-135	5.8	30
CHLOROMETHANE	10.00	ND	9.30	8.96	93.0	89.6	40-125	3.7	30
CIS-1,2-DICHLOROETHENE	10.00	ND	9.88	9.79	98.8	97.9	70-125	0.92	30
ETHYLBENZENE	10.00	ND	9.48	9.86	94.8	98.6	75-125	3.9	30
GASOLINE	300	24	344	340	107	105	75-125	1.2	30
HEXACHLOROBUTADIENE	10.00	ND	8.60	7.52	86.0	75.2	50-140	13.4	30
METHYL TERT-BUTYL ETHER	10.00	ND	10.0	9.70	100	97.0	65-125	3.0	30
METHYLENE CHLORIDE	10.00	ND	10.8	10.6	108	106	55-140	1.9	30
STYRENE	10.00	ND	9.58	9.34	95.8	93.4	65-135	2.5	30
TETRACHLOROETHENE	10.00	ND	9.20	10.0	92.0	100	45-150	8.3	30
TOLUENE	10.00	ND	9.78	9.91	97.8	99.1	75-120	1.3	30
TRANS-1,2-DICHLOROETHENE	10.00	ND	10.4	10.3	104	103	60-140	0.97	30
TRICHLOROETHENE	10.00	ND	9.48	9.31	94.8	93.1	70-125	1.8	30
VINYL CHLORIDE	10.00	ND	11.7	10.2	117	102	50-145	13.7	30
XYLENES (TOTAL)	30.0	0.41	28.9	30.5	95.0	100	80-120	5.4	30
SURROGATE: 1,2-DICHLOROETHANE-D	22.3	NA	23.3	19.4	104	86.9	70-120		
SURROGATE: 4-BROMOFLUOROBENZE	26.3	NA	26.1	24.7	99.1	93.8	75-120		
SURROGATE: DIBROMOFLUOROMETH	23.5	NA	23.2	21.5	98.6	91.4	85-115		
SURROGATE: TOLUENE-D8 (S)	26.0	NA	22.3	23.5	85.8	90.4	85-120		

Comments:

Primary	SPK	DUP
Quant Method :	C86DODW.M	C86DODW.M
Extraction Date :	04/25/11	04/25/11
Analysis Date :	04/25/11	04/25/11
Instrument :	Chico	Chico
Run :	0425C07	0425C08
Initials :	LF	

Printed: 05/16/11 8:34:08 PM
APPL MSD SCII

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C07W.D Vial: 1
Acq On : 25 Apr 11 14:48 Operator: RS
Sample : AY36312W234 MS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 15:40 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.88	96	405440	25.00000 ppb	-0.02
35) Chlorobenzene-D5 (IS)	18.08	117	326592	25.00000 ppb	-0.02
51) 1,4-Dichlorobenzene-D (IS)	22.28	152	197440	25.00000 ppb	-0.02
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.47	111	300248	23.19009 ppb	-0.02
Spiked Amount 23.521			Recovery = 98.595%		
23) 1,2-DCA-D4(S)	12.28	65	192189	23.27743 ppb	-0.02
Spiked Amount 22.321			Recovery = 104.285%		
36) Toluene-D8(S)	15.55	98	1034342	22.26645 ppb	-0.02
Spiked Amount 26.002			Recovery = 85.633%		
44) 4-Bromofluorobenzene(S)	20.15	95	400185	26.10984 ppb	-0.02
Spiked Amount 26.339			Recovery = 99.132%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.11	85	151157	11.22331 ppb	95
3) Chloromethane	4.59	50	116878	9.29862 ppb	96
4) Vinyl chloride	4.87	62	42144	11.74991 ppb	90
5) Bromomethane	5.77	94	33929	10.19859 ppb	91
6) Chloroethane	5.96	64	82083	9.90271 ppb	96
7) Trichlorofluoromethane	6.58	101	181562	10.65891 ppb	95
8) Acetone	7.32	43	7136	8.43098 ppb	98
9) 1,1-DCE	7.73	96	85002	10.65552 ppb	91
10) Methylene chloride	8.52	84	85974	10.80727 ppb	94
11) Carbon disulfide	8.61	76	375690	11.44686 ppb	99
12) Methyl t-butyl ether (MtBE	8.96	73	135904	10.04723 ppb	96
13) Trans-1,2-DCE	9.15	96	93012	10.41921 ppb	91
14) 1,1-DCA	9.84	63	171470	10.37669 ppb	96
15) MEK (2-Butanone)	10.51	43	31144	9.90597 ppb	98
16) Cis-1,2-DCE	10.86	96	116585	9.87918 ppb	91
17) 2,2-Dichloropropane	10.86	77	164006	10.73769 ppb	99
18) Chloroform	11.14	83	183088	10.29777 ppb	98
19) Bromochloromethane	11.36	128	38101	9.63951 ppb	94
21) 1,1,1-TCA	11.89	97	177606	10.29084 ppb	96
22) 1,1-Dichloropropene	12.16	75	117993	10.47905 ppb	99
24) Carbon Tetrachloride	12.34	117	158001	10.43980 ppb	97
25) 1,2-DCA	12.42	62	74935	10.05320 ppb	95
26) Benzene	12.55	78	346212	10.04927 ppb	98
27) TCE	13.58	95	107405	9.47878 ppb	89
28) 1,2-Dichloropropane	13.80	63	80374	9.50562 ppb	98
29) Bromodichloromethane	14.16	83	120955	10.10801 ppb	90
30) Dibromomethane	14.22	93	39478	9.66124 ppb	94
31) Cis-1,3-Dichloropropene	15.05	75	117902	9.83466 ppb	92
32) Toluene	15.68	92	247960	9.78037 ppb	98
33) Trans-1,3-Dichloropropene	15.84	75	87877	9.81237 ppb	96
34) 1,1,2-TCA	16.13	83	42809	10.54844 ppb	93
37) 1,2-EDB	17.37	107	54072	9.40189 ppb	92
38) Tetrachloroethene	16.83	164	105507	9.19897 ppb	94
39) 1-Chlorohexane	17.74	91	172286	9.52639 ppb	98
40) 1,1,1,2-Tetrachloroethane	18.20	131	113666	9.66781 ppb	93
41) m&p-Xylene	18.40	106	433833	19.02043 ppb	97
42) o-Xylene	19.14	106	222600	9.89947 ppb	96
43) Styrene	19.16	78	158971	9.57677 ppb	98
45) 2-Hexanone	16.15	43	15570	9.22661 ppb	90

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C07W.D Vial: 1
Acq On : 25 Apr 11 14:48 Operator: RS
Sample : AY36312W234 MS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 15:40 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.53	76	85137	9.19348	ppb		96
47)	Dibromochloromethane	17.02	129	88086	9.75075	ppb		93
48)	Chlorobenzene	18.15	112	304343	9.21567	ppb		96
49)	Ethylbenzene	18.25	91	528035	9.48499	ppb		100
50)	Bromoform	19.68	173	50675	9.49521	ppb		99
52)	MIBK (methyl isobutyl keto	14.71	43	26607	8.11209	ppb	#	72
53)	Isopropylbenzene	19.77	105	820727	12.14328	ppb		98
54)	1,1,2,2-Tetrachloroethane	19.93	83	51003	9.19331	ppb		97
55)	1,2,3-Trichloropropane	20.19	110	17232	9.91123	ppb		96
56)	Bromobenzene	20.52	156	137874	8.51059	ppb		94
57)	n-Propylbenzene	20.48	91	826939	10.89978	ppb		98
58)	2-Chlorotoluene	20.78	91	441184	8.77379	ppb		95
59)	1,3,5-Trimethylbenzene	20.75	105	454825	8.55660	ppb		92
60)	4-Chlorotoluene	20.86	91	376080	8.64392	ppb		98
61)	Tert-Butylbenzene	21.40	119	570061	9.77391	ppb		99
62)	1,2,4-Trimethylbenzene	21.46	105	483542	9.01045	ppb		99
63)	Sec-Butylbenzene	21.79	105	954253	12.70081	ppb		100
64)	p-Isopropyltoluene	22.03	119	566200	9.07724	ppb		98
65)	1,3-DCB	22.16	146	286694	8.63966	ppb		99
66)	1,4-DCB	22.34	146	271941	9.01932	ppb		94
67)	n-Butylbenzene	22.73	91	576478	11.01797	ppb		95
68)	1,2-DCB	22.96	146	231804	8.73103	ppb		98
69)	1,2-Dibromo-3-chloropropan	24.16	157	12384	8.39156	ppb		92
70)	1,2,4-Trichlorobenzene	25.62	180	81824	8.84275	ppb		99
71)	Hexachlorobutadiene	25.87	223	39104	8.59983	ppb		99
72)	Naphthalene	25.96	128	115665	11.79011	ppb		99
73)	1,2,3-Trichlorobenzene	26.32	180	162833	8.83393	ppb		98

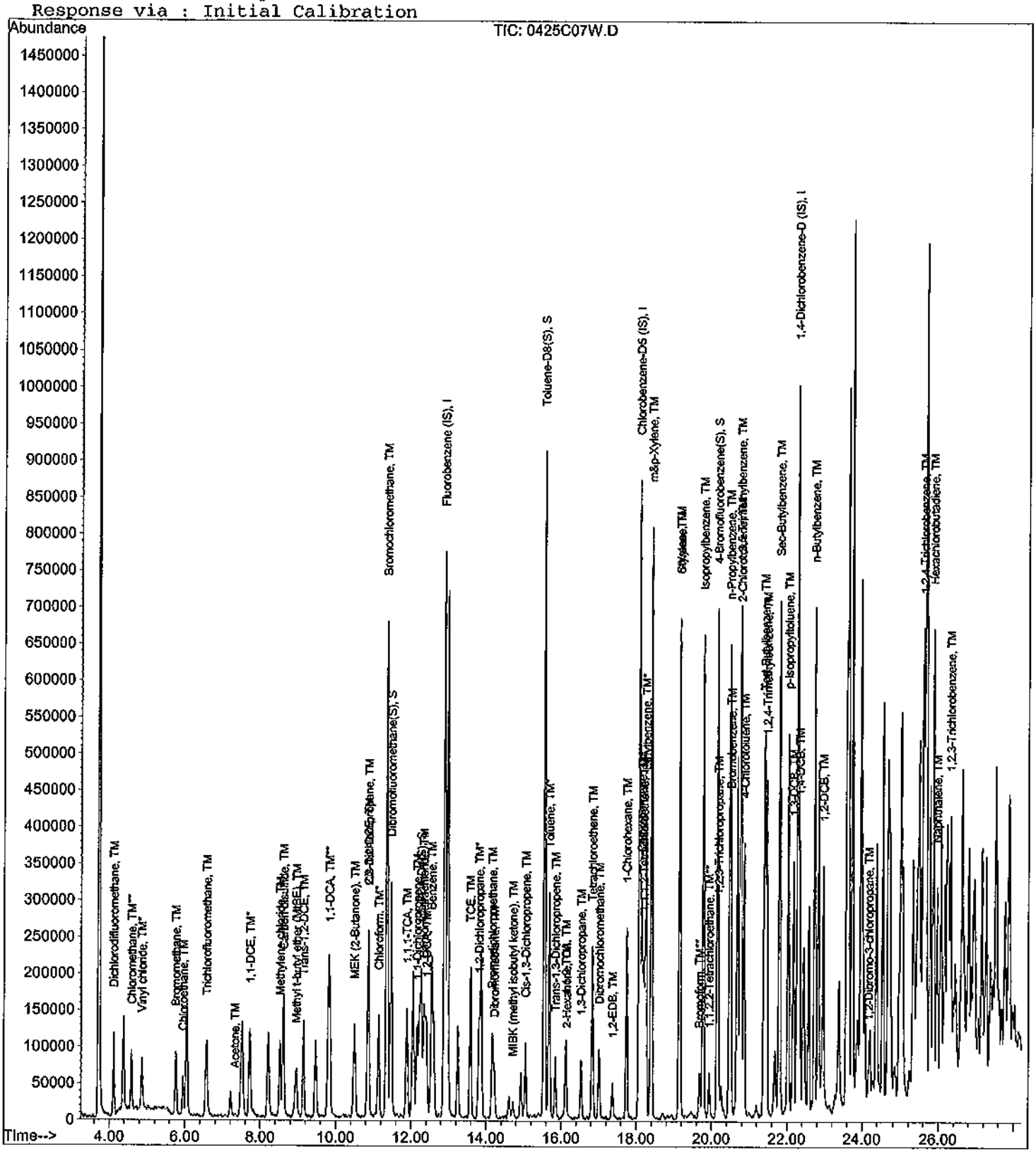
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C07W.D Vial: 1
Acq On : 25 Apr 11 14:48 Operator: RS
Sample : AY36312W234 MS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: Apr 25 15:40 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C09W.D Vial: 1
Acq On : 25 Apr 11 15:58 Operator: RS
Sample : AY36312W567MS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:55 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

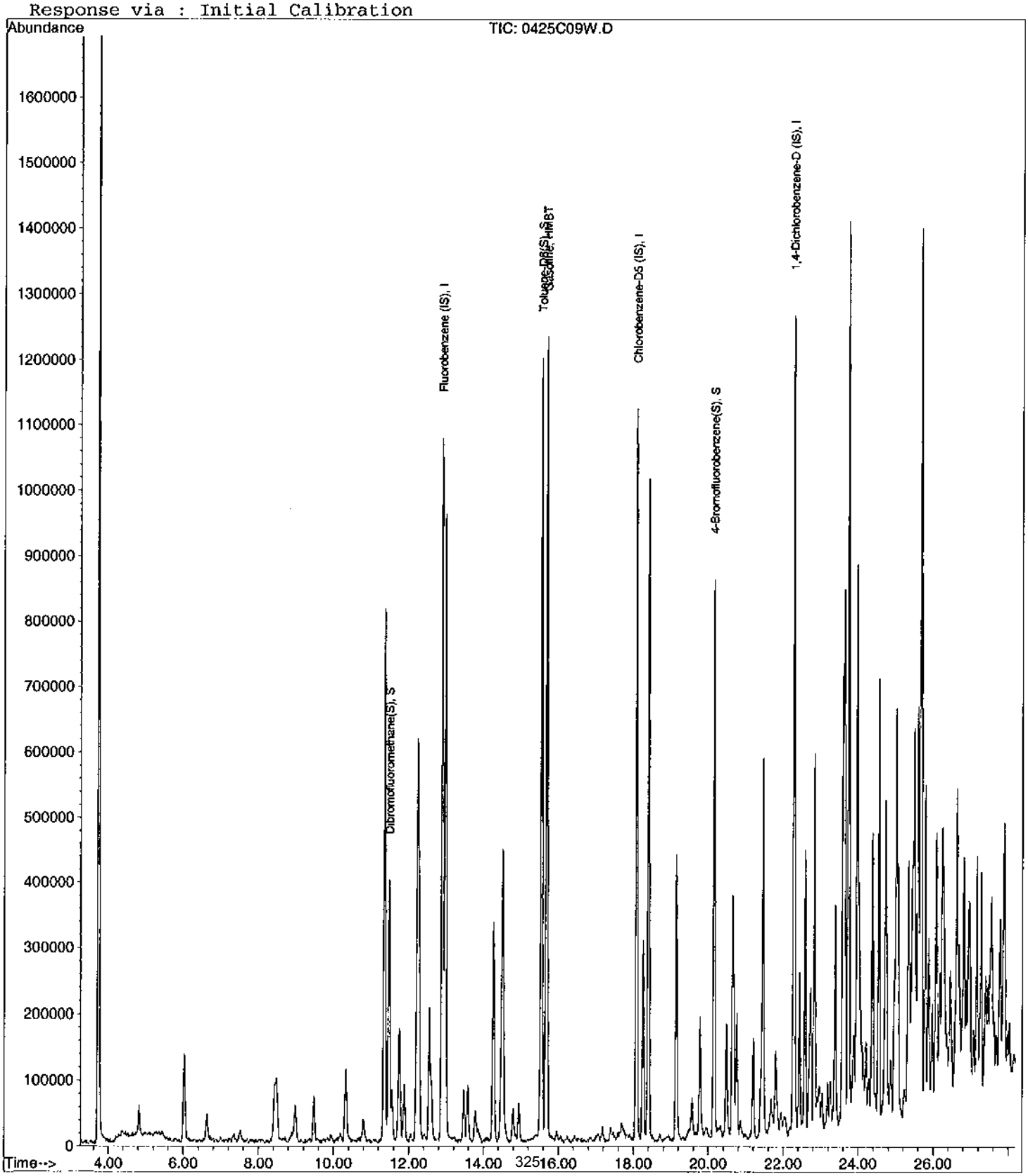
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	TIC	1071362	25.00000	ppb	-0.01
4) Chlorobenzene-D5 (IS)	18.08	TIC	1115330	25.00000	ppb	-0.01
7) 1,4-Dichlorobenzene-D (IS)	22.27	TIC	1241968	25.00000	ppb	-0.01
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.48	TIC	1125606	18.92351	ppb	0.00
Spiked Amount 23.521			Recovery =	80.456%		
5) Toluene-D8(S)	15.55	TIC	3581637	25.39487	ppb	-0.01
Spiked Amount 26.002			Recovery =	97.666%		
6) 4-Bromofluorobenzene(S)	20.15	TIC	2371365	25.27447	ppb	-0.01
Spiked Amount 26.339			Recovery =	95.957%		
Target Compounds						Qvalue
2) Gasoline	15.69	TIC	49677539m	343.76255	ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C09W.D Vial: 1
Acq On : 25 Apr 11 15:58 Operator: RS
Sample : AY36312W567MS-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:55 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C08W.D Vial: 1
Acq On : 25 Apr 11 15:23 Operator: RS
Sample : AY36312W234 MSD-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:45 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.89	96	546304	25.00000 ppb		-0.01
35) Chlorobenzene-D5 (IS)	18.08	117	407488	25.00000 ppb		-0.02
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	237568	25.00000 ppb		-0.02
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.47	111	374800	21.48395 ppb		-0.02
Spiked Amount 23.521			Recovery = 91.342%			
23) 1,2-DCA-D4(S)	12.27	65	215510	19.37163 ppb		-0.02
Spiked Amount 22.321			Recovery = 86.790%			
36) Toluene-D8(S)	15.55	98	1359218	23.45129 ppb		-0.01
Spiked Amount 26.002			Recovery = 90.190%			
44) 4-Bromofluorobenzene(S)	20.15	95	474559	24.74957 ppb		-0.02
Spiked Amount 26.339			Recovery = 93.969%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	174943	9.64010 ppb		96
3) Chloromethane	4.59	50	151828	8.96458 ppb		99
4) Vinyl chloride	4.86	62	49376	10.21661 ppb		93
5) Bromomethane	5.77	94	41383	9.22160 ppb		94
6) Chloroethane	5.96	64	111912	10.02005 ppb		96
7) Trichlorofluoromethane	6.57	101	218171	9.50555 ppb		98
8) Acetone	7.34	43	9644	8.46324 ppb	#	70
9) 1,1-DCE	7.72	96	110462	10.27663 ppb		87
10) Methylene chloride	8.52	84	113510	10.56465 ppb		99
11) Carbon disulfide	8.61	76	514835	11.64171 ppb		98
12) Methyl t-butyl ether (MtBE	8.95	73	176815	9.70120 ppb		96
13) Trans-1,2-DCE	9.15	96	124141	10.31733 ppb		97
14) 1,1-DCA	9.84	63	219064	9.83861 ppb		100
15) MEK (2-Butanone)	10.48	43	39946	9.42949 ppb	#	87
16) Cis-1,2-DCE	10.86	96	155705	9.79204 ppb		94
17) 2,2-Dichloropropane	10.86	77	198384	9.63940 ppb		92
18) Chloroform	11.14	83	232911	9.72222 ppb		99
19) Bromochloromethane	11.36	128	56120	10.53728 ppb		94
21) 1,1,1-TCA	11.89	97	212733	9.14788 ppb		96
22) 1,1-Dichloropropene	12.16	75	153522	10.11879 ppb		97
24) Carbon Tetrachloride	12.35	117	193751	9.50099 ppb		98
25) 1,2-DCA	12.43	62	86939	8.65618 ppb		98
26) Benzene	12.55	78	466251	10.04395 ppb		98
27) TCE	13.59	95	142188	9.31286 ppb		89
28) 1,2-Dichloropropane	13.81	63	116340	10.21142 ppb		96
29) Bromodichloromethane	14.17	83	145902	9.04889 ppb		98
30) Dibromomethane	14.23	93	52231	9.48633 ppb		96
31) Cis-1,3-Dichloropropene	15.05	75	156132	9.66546 ppb		96
32) Toluene	15.68	92	338406	9.90613 ppb		99
33) Trans-1,3-Dichloropropene	15.84	75	113259	9.38563 ppb		97
34) 1,1,2-TCA	16.12	83	56517	10.33533 ppb		97
37) 1,2-EDB	17.37	107	69772	9.72332 ppb	#	82
38) Tetrachloroethene	16.84	164	143246	10.00993 ppb		98
39) 1-Chlorohexane	17.75	91	237488	10.52473 ppb		89
40) 1,1,1,2-Tetrachloroethane	18.20	131	139251	9.49263 ppb		96
41) m&p-Xylene	18.39	106	568576	19.97915 ppb		97
42) o-Xylene	19.14	106	294211	10.48664 ppb		94
43) Styrene	19.16	78	193380	9.33691 ppb		90
45) 2-Hexanone	16.14	43	20187	9.58774 ppb	#	67

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C08W.D Vial: 1
Acq On : 25 Apr 11 15:23 Operator: RS
Sample : AY36312W234 MSD-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:45 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.54	76	111873	9.68228	ppb		92
47)	Dibromochloromethane	17.01	129	106023	9.40637	ppb		92
48)	Chlorobenzene	18.14	112	401083	9.73394	ppb		98
49)	Ethylbenzene	18.26	91	684930	9.86077	ppb		97
50)	Bromoform	19.68	173	62076	9.32234	ppb		95
52)	MIBK (methyl isobutyl keto	14.71	43	33552	8.50164	ppb		86
53)	Isopropylbenzene	19.78	105	1052153	12.93789	ppb		99
54)	1,1,2,2-Tetrachloroethane	19.93	83	66023	9.89051	ppb		90
55)	1,2,3-Trichloropropane	20.19	110	21522	10.28778	ppb		88
56)	Bromobenzene	20.51	156	174464	8.95015	ppb		96
57)	n-Propylbenzene	20.48	91	1035671	11.34523	ppb		95
58)	2-Chlorotoluene	20.77	91	528676	8.73785	ppb		99
59)	1,3,5-Trimethylbenzene	20.76	105	592931	9.27061	ppb		95
60)	4-Chlorotoluene	20.85	91	468182	8.94319	ppb		98
61)	Tert-Butylbenzene	21.39	119	710676	10.12665	ppb		98
62)	1,2,4-Trimethylbenzene	21.45	105	590230	9.14073	ppb		98
63)	Sec-Butylbenzene	21.79	105	1189399	13.15657	ppb		97
64)	p-Isopropyltoluene	22.03	119	707696	9.42927	ppb		97
65)	1,3-DCB	22.17	146	362244	9.07249	ppb		96
66)	1,4-DCB	22.33	146	344705	9.50154	ppb		97
67)	n-Butylbenzene	22.73	91	720368	11.44248	ppb		94
68)	1,2-DCB	22.96	146	290649	9.09831	ppb		99
69)	1,2-Dibromo-3-chloropropan	24.17	157	16170	9.10624	ppb	#	65
70)	1,2,4-Trichlorobenzene	25.62	180	89286	8.01931	ppb	#	91
71)	Hexachlorobutadiene	25.87	223	41160	7.52300	ppb		96
72)	Naphthalene	25.97	128	141728	12.00656	ppb		100
73)	1,2,3-Trichlorobenzene	26.33	180	189020	8.52249	ppb	#	94

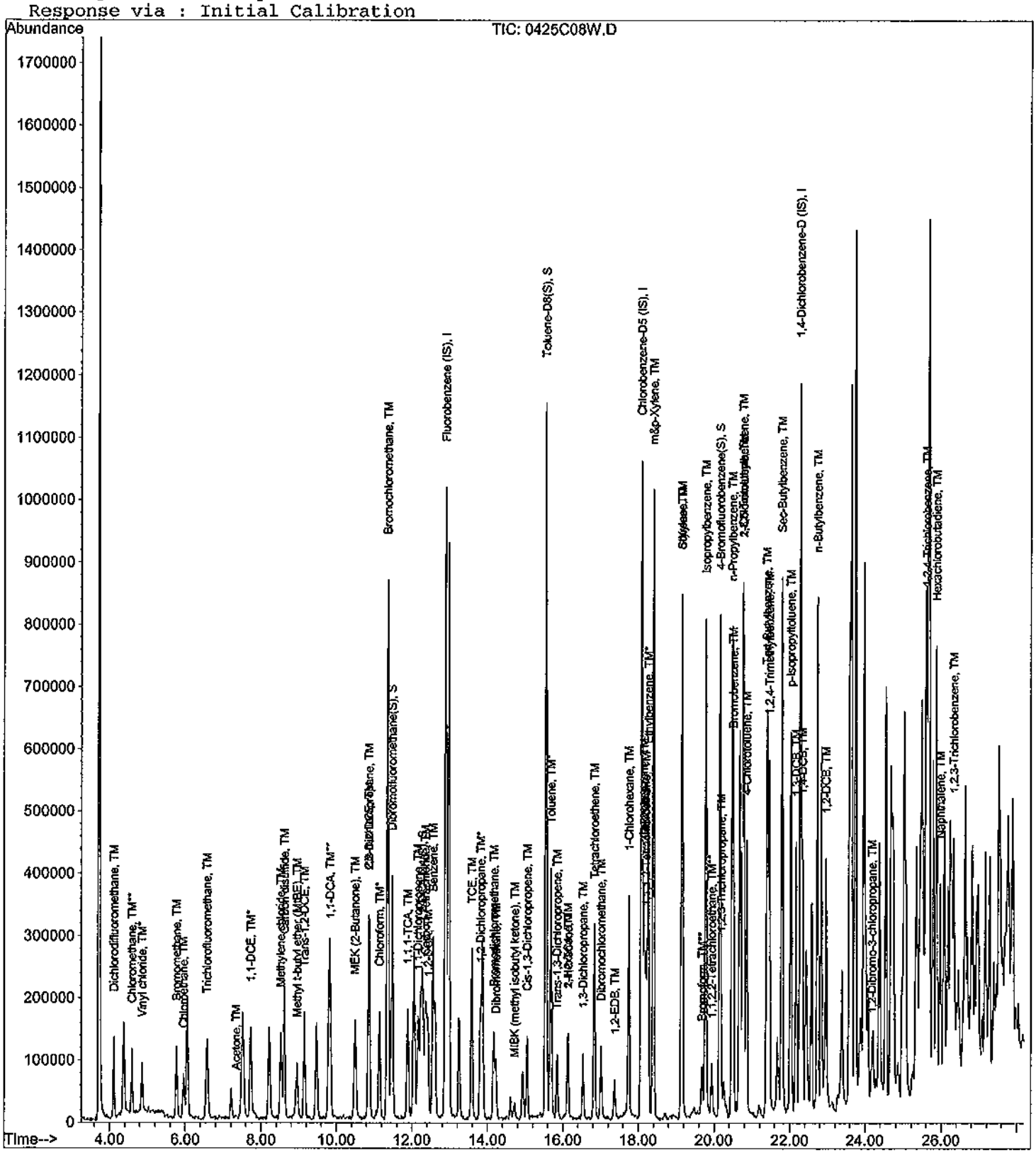
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C08W.D Vial: 1
Acq On : 25 Apr 11 15:23 Operator: RS
Sample : AY36312W234 MSD-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 10 14:45 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Sun Apr 24 15:51:14 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0425C10W.D Vial: 1
Acq On : 25 Apr 11 16:34 Operator: RS
Sample : AY36312W567MSD-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:55 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	1057950	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.08	TIC	1130744	25.00000	ppb	-0.02
7) 1,4-Dichlorobenzene-D (IS)	22.28	TIC	1251540	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.47	TIC	1280489	21.80029	ppb	0.00
Spiked Amount 23.521			Recovery = 92.683%			
5) Toluene-D8(S)	15.56	TIC	3690567	25.81051	ppb	0.00
Spiked Amount 26.002			Recovery = 99.265%			
6) 4-Bromofluorobenzene(S)	20.16	TIC	2509317	26.38021	ppb	0.00
Spiked Amount 26.339			Recovery = 100.156%			
Target Compounds						Qvalue
2) Gasoline	15.68	TIC	48769309m	340.07086	ppb	100

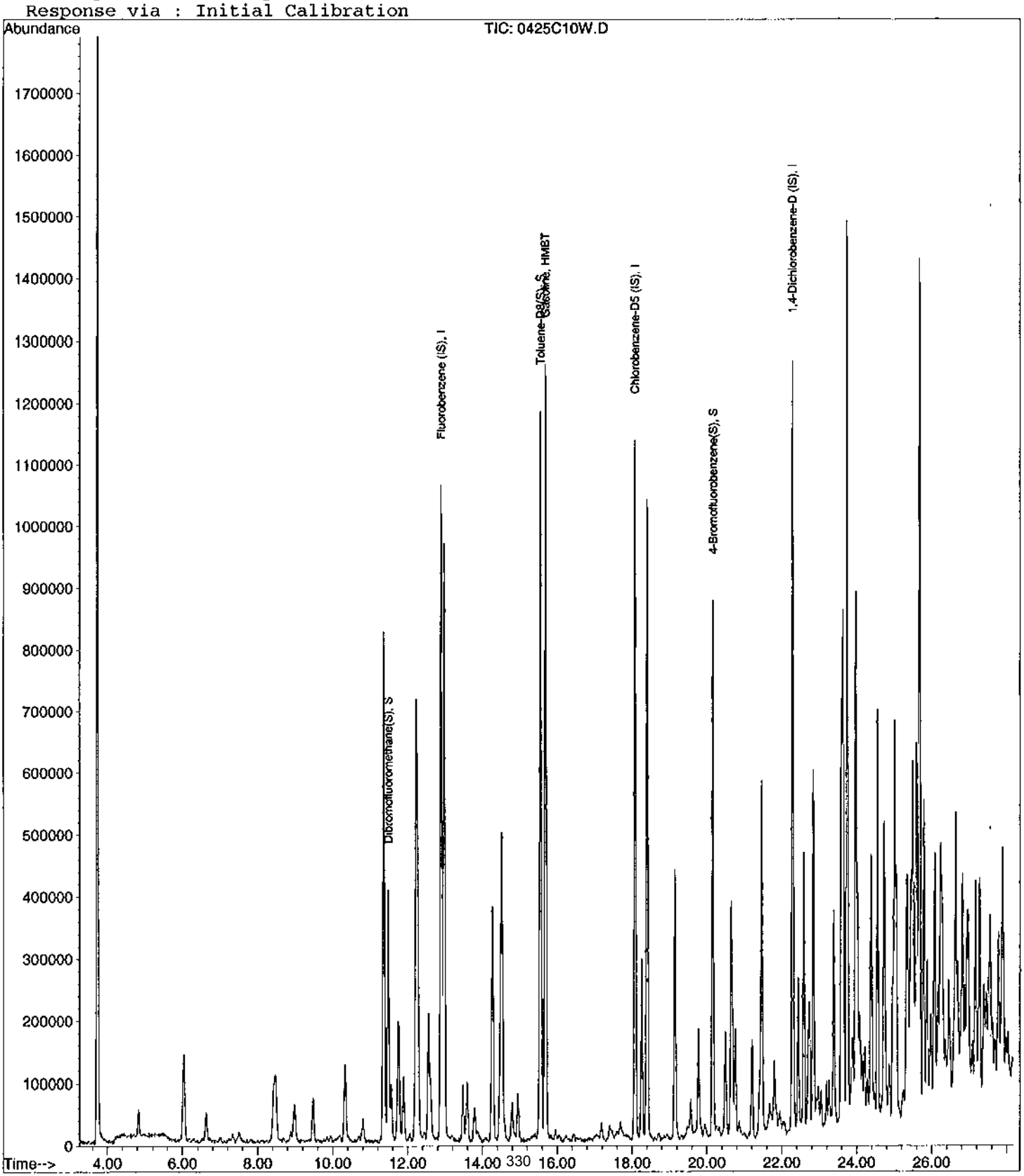
(#) = qualifier out of range (m) = manual integration
0425C10W.D GAS.M Mon May 16 20:04:00 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0425C10W.D Vial: 1
Acq On : 25 Apr 11 16:34 Operator: RS
Sample : AY36312W567MSD-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:55 2011 Quant Results File: GAS.RES

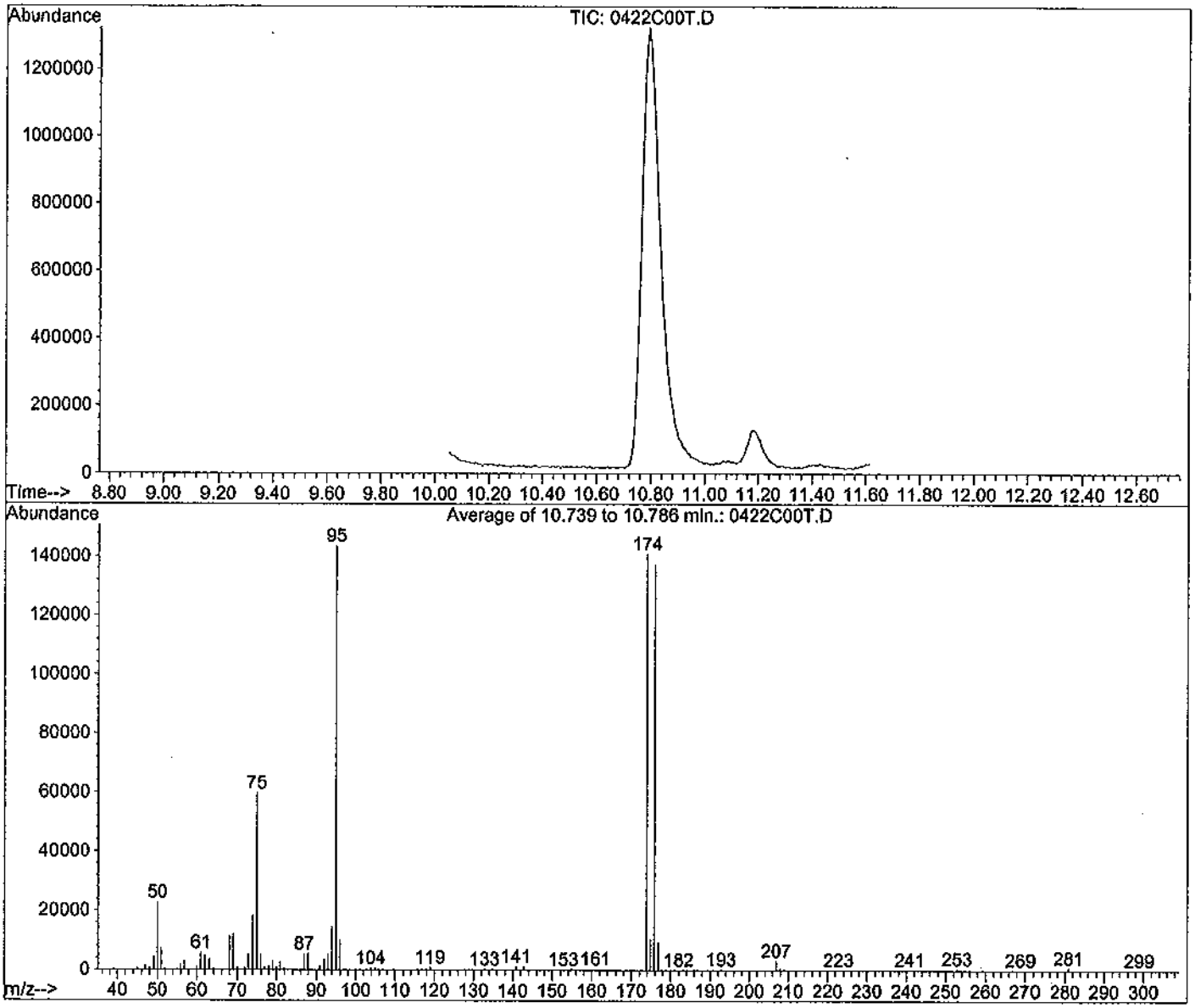
Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C110422\0422C00T.D
Acq On : 22 Apr 11 15:43
Sample : 20ug/ml BFB STD 04-15-11A
Misc : 2uL

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

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Average of 10.739 to 10.786 min.

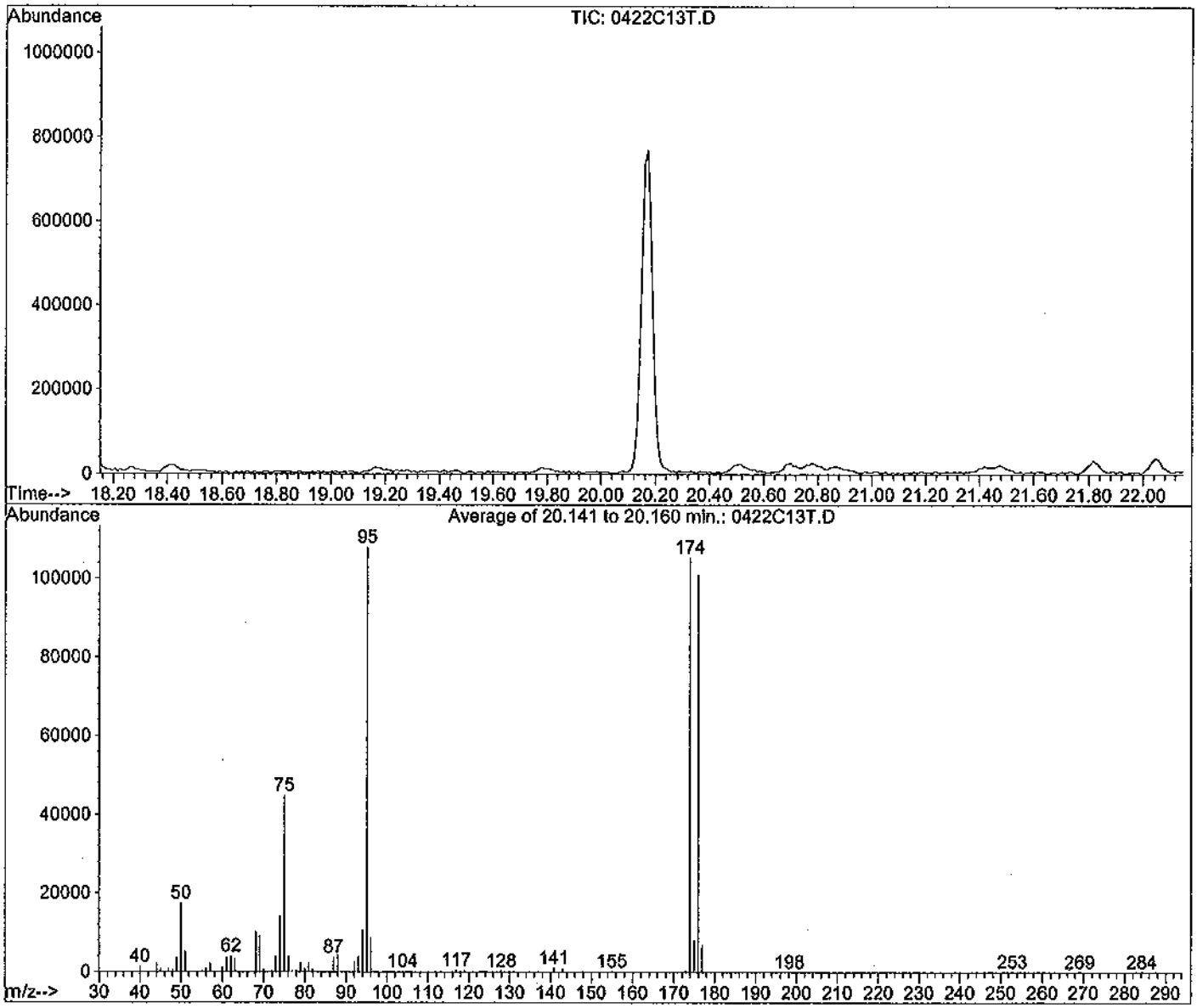
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	22683	PASS
75	95	30	60	41.6	59778	PASS
95	95	100	100	100.0	143544	PASS
96	95	5	9	7.0	10016	PASS
173	174	0.00	2	0.1	75	PASS
174	95	50	100	98.2	140932	PASS
175	174	5	9	7.4	10383	PASS
176	174	95	101	97.3	137193	PASS
177	176	5	9	7.0	9621	PASS

BFB

Data File : M:\CHICO\DATA\C110422\0422C13T.D
Acq On : 22 Apr 11 23:53
Sample : 20ug/ml BFB STD 04-15-11A
Misc : 2ul

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

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B



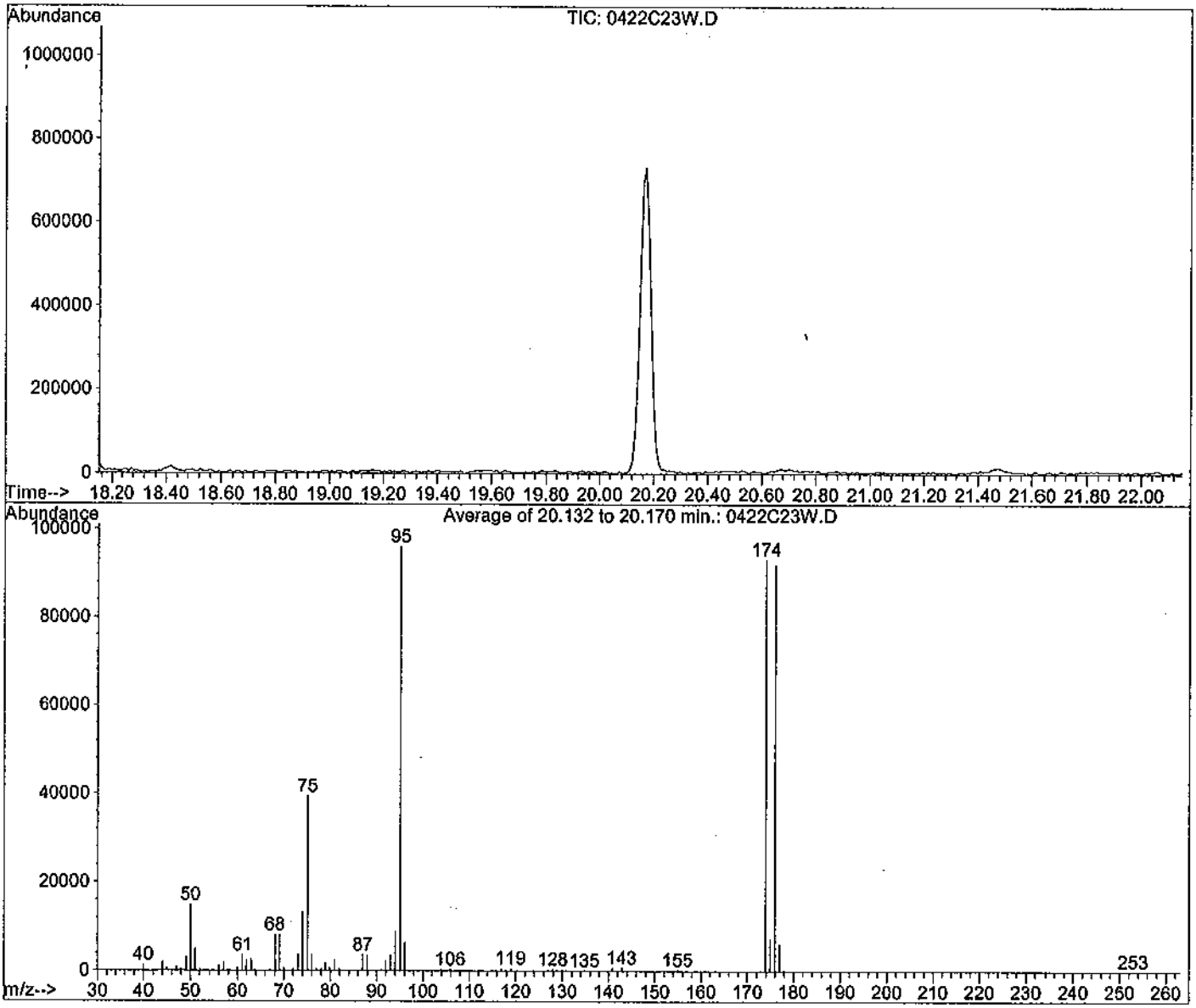
Spectrum Information: Average of 20.141 to 20.160 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	17487	PASS
75	95	30	60	41.6	44917	PASS
95	95	100	100	100.0	107933	PASS
96	95	5	9	8.0	8634	PASS
173	174	0.00	2	0.5	483	PASS
174	95	50	100	97.7	105496	PASS
175	174	5	9	7.8	8183	PASS
176	174	95	101	95.8	101021	PASS
177	176	5	9	6.9	6934	PASS

Data File : M:\CHICO\DATA\C110422\0422C23W.D
Acq On : 23 Apr 11 6:18
Sample : 20ug/ml BFB STD 04-15-11A
Misc : 2uL

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

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Average of 20.132 to 20.170 min.

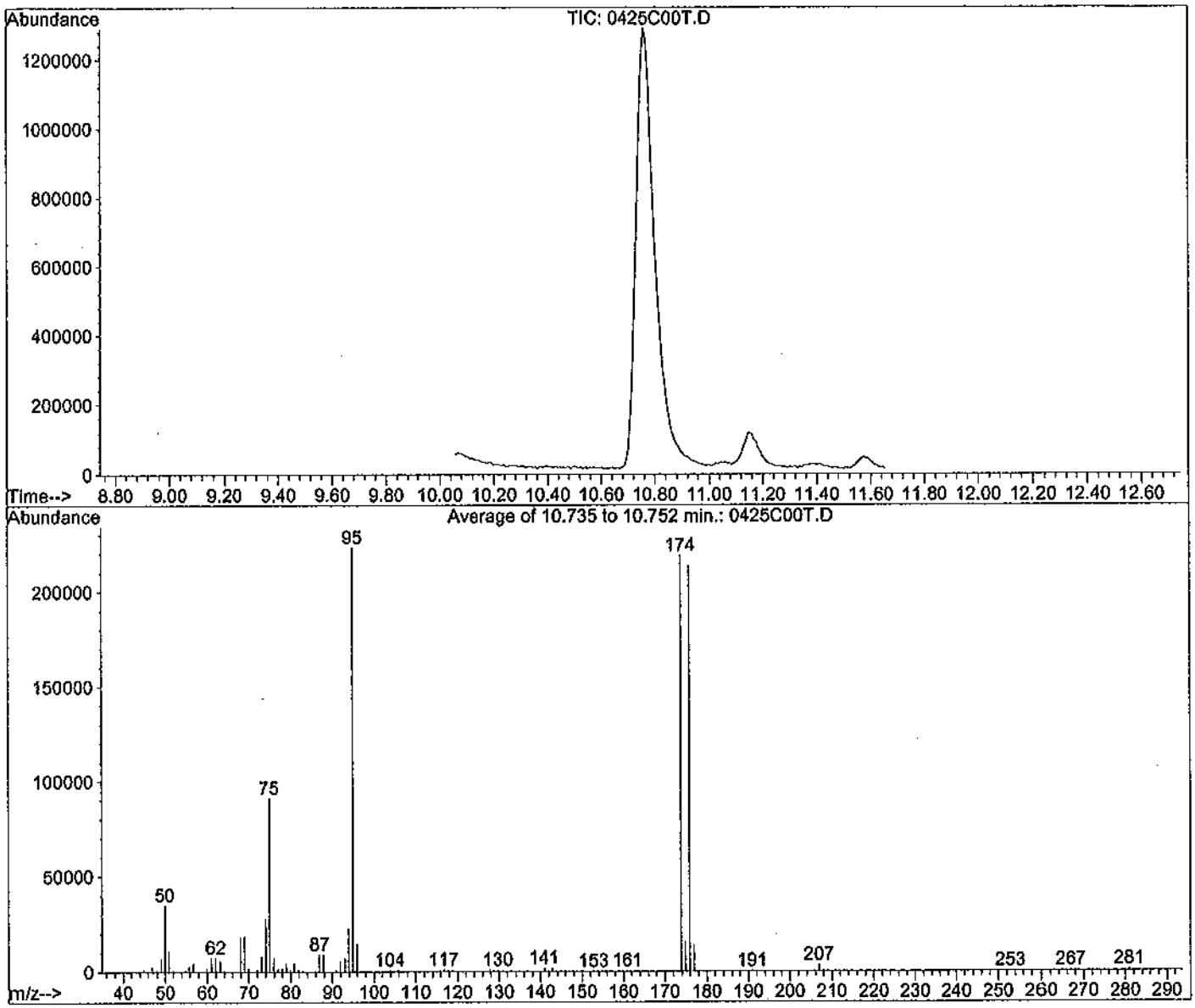
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	14905	PASS
75	95	30	60	41.1	39422	PASS
95	95	100	100	100.0	96000	PASS
96	95	5	9	6.6	6353	PASS
173	174	0.00	2	0.1	59	PASS
174	95	50	100	97.1	93200	PASS
175	174	5	9	7.9	7355	PASS
176	174	95	101	98.6	91888	PASS
177	176	5	9	6.7	6124	PASS

BFB

Data File : M:\CHICO\DATA\C110422\0425C00T.D
Acq On : 25 Apr 11 10:08
Sample : 20ug/ml BFB STD 04-15-11A
Misc : 2uL

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

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Average of 10.735 to 10.752 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.6	34856	PASS
75	95	30	60	40.9	91310	PASS
95	95	100	100	100.0	223360	PASS
96	95	5	9	6.5	14585	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	98.1	219120	PASS
175	174	5	9	7.2	15813	PASS
176	174	95	101	97.6	213808	PASS
177	176	5	9	6.4	13786	PASS

034

4-29-11
RS.

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

		Expiration Date:		04/30/11								
		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	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	04-25-11T	04-25-11X	04-25-11P	04-25-11R	04-25-11W	04-25-11U	04-25-11Q	04-25-11S	04-25-11V
Code	µg/L	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11
04-29-11T	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
04-29-11U	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
04-29-11V	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
04-29-11W	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
04-29-11X	50	n/a	n/a	5	5	5	n/a	5	n/a	5
04-29-11Y	100	n/a	n/a	10	10	10	n/a	10	n/a	10
04-29-11Z	200	n/a	n/a	20	20	20	n/a	20	n/a	20

50µg/mL TBA 04-25-11Y Exp:05-02-11	Final Vol w/P&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

4-30-11
RS.

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

		Expiration Date:		05/01/11						
		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	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	04-25-11T	04-25-11X	04-25-11P	04-25-11R	04-25-11W	04-25-11U	04-25-11Q	04-25-11S	04-25-11V
Code	µg/L	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11
04-30-11A	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
04-30-11B	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
04-30-11C	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
04-30-11D	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
04-30-11E	50	n/a	n/a	5	5	5	n/a	5	n/a	5
04-30-11F	100	n/a	n/a	10	10	10	n/a	10	n/a	10
04-30-11G	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA 04-25-11Y Exp:05-02-11	Final Vol w/P&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

5-02-11
RS.

A-

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

120116-03

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

Solv: P/T Methanol

Method 8260 Gases
Lot #: 169238 - 28291
Rec: 2/17/11 MFR exp. 02/19/14

5-02-11
RS.

B-

Hexachloroethane Solution, 1000 mg/L, 1 ml

o2si
Cat. No: 020049-02
Lot No: 157911

Exp: 4/1/2012
Storage: </= -10 Degrees C
Solvent: P/T Methanol
ption For Research Use Only
Opened:

Hexachloroethane
Lot #: 157911 - 28708
Rec: 6/8/10 MFR exp. 04/01/12

5-02-11
RS.

C-

Benzyl Chloride Solution, 1000 mg/L, 1 ml

020218-02

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

Solvent: P/T Methanol

Benzyl Chloride
Lot #: 163373 - 27865
Rec: 12/15/10 MFR exp. 08/29/12

5-02-11 D-
RS

n-Hexane Solution, 1,000 mg/L, 1 ml
020620-02
Lot # 163378 Storage ≤-10 Degrees Expiry 8/29/16
Solvt P/T Methanol
n-Hexane, 1000mg/L
Lot #: 163378 - 27881
Rec: 12/15/10 MFR exp. 08/29/16

5-02-11 E-
RS

Heptane Solution, 1000 mg/L, 1 ml
o2si smart solutions
Cat. No: 020546-02
Lot No: 149236
Heptane Solution
Lot #: 149236 - 27650
Rec: 10/20/10 MFR exp. 08/02/12
Exp: 8/2/2012
Storage: </= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

5-02-11 F-
RS

Method 8260B Surrogate Solution, 2,000 mg/L, 1 ml
120002-01
Lot # 164585 Storage ≤-10 Degrees C Expiry 10/12/13
Solv: P/T Methanol
Method 8260B Surrogate
Lot #: 164585 - 27936
Rec: 12/15/10 MFR exp. 10/12/13

5-02-11 G1-
RS

VOC Mix 4-3, 2,000 mg/L, 1 ml
120166-01
Lot # 166125 Storage ≤6 Degrees C Expiry 12/2/12
Solv: P/T Methanol
VOC Mix 4-3, 2000mg/L
Lot #: 166725 - 28320
Rec: 2/17/11 MFR exp. 12/02/12

5-02-11 H-
RS

Acrolein Solution, 10,000 mg/L, 2 x 0.6 ml
020319-09-02
Lot # 171923 Storage ≤6 Degrees C Expiry 5/25/11
Solvt Water, HPLC Grade
Acrolein solution
Lot #: 171923 - 28626
Rec: 4/19/11 MFR exp. 05/25/11

5-02-11 I-
RS

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml
o2si smart solutions
Cat. No: 120016-03-SS
Lot No: 160736
Method 8260 Gases (SS)
Lot #: 160736 - 27915
Rec: 12/15/10 MFR exp. 06/23/11
Exp: 6/21/2013
Storage: </= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

036

5-02-11 J-
RS.

Acrolein Solution (Second Source), 10,000 mg/L, 2 x 0.6 ml
012229-09-02-SS

Lot #	Storage	Expiry
171924	≤6 Degrees C	5/25/11

Solvt: Water, HPLC Grade

Acrolein Solution SS
Lot #: 171924 - 28628
Rec: 4/19/11 MFR exp. 05/25/11

05-02-11K							
50ug/ml Vol Work Std #7							
Exp:05/09/11							
			Conc,		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	169218-28291	05-02-11A	06/02/11	100
02SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
02SI	020228-02	Benzyl Chloride	1000	163373-27865	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3500
05-02-11L							
50ug/ml Vol Work Std #1							
Exp:05/09/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	146817-26190	04-16-11D	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	1950
05-02-11M							
50ug/ml Vol Work Std #8							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	148446-24740	04-16-11E	05/14/11	100
02SI	120023-03	VOC'S-54 COMP	2000	151805-25632	04-25-11C	10/14/11	100
02SI	020232-02	Vinyl Acetate	2000	169439-28359	04-16-11F	05/19/11	100
02SI	020620-02	n-Hexane	1000	163378-27881	05-02-11D	06/14/11	200
02SI	020546-02	Heptane	1000	169236-27650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3300
05-02-11N							
50ug/ml Vol Work Std #2							
Exp:05/09/11			ug/ml				
Supplier	ID #	ID					
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-28308	04-25-11B	05/07/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3900
		05-02-11O	Exp:	05/09/11			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		05-02-11K	05/02/11	200	
		50ug/ml Vol Work Std #8		05-02-11M	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1600	
		05-02-11P	Exp:	05/09/11			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		04-25-11O	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
		05-02-11Q	Exp:	05/09/11			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		04-25-11S	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
05-02-11R							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/09/11			ug/ml	Lot #	Code	Date	uL
02SI	120002-01	8260B Surr Solution	2000	164585-27936	05-02-11F	09/14/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3900
05-02-11S			Exp:	05/09/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-02-11R	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	1800	

5-02-11
RS.

5-02-11
RS.

05-02-11S							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/09/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	166725-28320	05-02-11G	05/17/11	500
02SI	020229-09	Acrolein	10000	171923-28626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3400

5-02-11
RS

05-02-11U							
50ug/ml VOC Std#5							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03-SS	8260 Gases(SS)	2000	160736-27915	05-02-11I	06/02/11	50
02SI	020145-02-02-S	2-CEVE	2000	152510-25456	04-16-11L	11/03/11	50
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1900
05-02-11V							
50ug/ml VOC Std#6							
Exp:05/09/11							
	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120021-03-SS	VOC'S 54 COMP.	2000	148632-26236	04-16-11M	07/14/11	50
02SI	120295-01	Custom 8260 Solution	2000	154846-25954	04-16-11N	07/14/11	50
02SI	020232-02-SS	Vinyl Acetate(SS)	2000	167177-28334	04-16-11R	05/15/11	50
02SI	020620-02-SS	n-HEXANE	1000	150529-27171	04-16-11O	09/02/11	100
02SI	020049-02-SS	HEXACHLOROETHANE	1000	154535-25914	04-16-11P	12/29/11	100
02SI	020546-02-SS	Heptane(SS)	1000	142276-23594	04-16-11Q	06/19/11	100
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1550
05-02-11W							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/09/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	152511-26241	04-03-11K	11/03/11	250
02SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	171924-28628	05-02-11J	05/25/11	50
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1700

5-02-11
RS

05-02-11X							
50ug/ml Vol Work Std #7							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-01	Gas Mix	2000	169238-28291	05-02-11A	06/02/11	100
02SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
02SI	020228-02	Benzyl Chloride	1000	163373-27865	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3500
05-02-11Y							
50ug/ml Vol Work Std #1							
Exp:05/09/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	146517-26190	04-16-11O	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1950
05-02-11Z							
50ug/ml Vol Work Std #8							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120039-02	Volatile Mix, 20-29	2000	148446-24740	04-16-11E	05/14/11	100
02SI	120021-01	VOC'S-54 COMP	2000	151805-25632	04-25-11C	10/14/11	100
02SI	020232-02	Vinyl Acetate	2000	169119-28359	04-16-11F	05/19/11	100
02SI	020620-02	n-Hexane	1000	163178-27881	05-02-11D	06/14/11	200
02SI	020546-02	Heptane	1000	149236-27650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3300
05-02-11AA							
50ug/ml Vol Work Std #2							
Exp:05/09/11			ug/ml				
Supplier	ID #	ID					
02SI	121020-05	HSL'S-Ketone Solution	2000	169171-28308	04-25-11B	05/07/11	100
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3900
		05-02-11AB	Exp:	05/09/11			
		3ug/ml Vol Work Std #3					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		05-02-11X	05/02/11	200	
		50ug/ml Vol Work Std #8		05-02-11Z	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1600	

038

		05-02-11AC	Exp:	05/09/11			
		5ug/ml Vol Work Std #10					
		SOURCE#	Lot	APPL Code	APPL Exp Date	ul	
		$0ug/ml Vol Work Std #1		05-02-11Y	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
		05-02-11AD	Exp:	05/09/11			
		5ug/ml Vol Work Std #12					
		SOURCE#	Lot	APPL Code	APPL Exp Date	ul	
		$0ug/ml Vol Work Std #2		05-02-11AA	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
05-02-11AE							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/09/11			ug/ml	Lot #	Code	Date	uL
02SI	120002-01	8260B Surr Solution	2000	166585-27916	05-02-11P	09/14/11	100
J&T Brand		Purge & Trap MeOH		H45B36-00512	05/02/11	10/14/11	3900
05-02-11AF			Exp:	05/09/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-02-11AB	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45B36-00512	05/02/11	1800	
05-02-11AG							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:05/09/11			Conc.		Date	APPL Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	166725-28320	05-02-11O	05/17/11	500
02SI	020229-09	Acrolein	10000	171923-28626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45B36-00512	05/02/11	10/14/11	3400

5-02-11
RS

05/02/11AH							
2000ug/ml Gasoline						APPL	
			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
Supelco	L881226	Gasoline	20	LB61226-26324	10-29-10A	09/02/11	200
J&T Brand		Purge & Trap MeOH		H46B44-00490	01/17/11	03/02/12	1800
05/02/11AI							
2000ug/ml Unleaded Gasoline						APPL	
			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
Supelco	30205	Unleaded Gasoline	50,000	A0S0005-21116	10-29-10B	11/30/12	80
J&T Brand		Purge & Trap MeOH		H46B44-00490	01/17/11	03/02/12	1920

5-02-11
RS

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

	Expiration Date:		05/09/11								
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	50ug/mL Vol Std #2	5ug/mL Vol Std #12
Date	Conc.	05-02-11O	05-02-11S	05-02-11K	05-02-11M	05-02-11R	05-02-11P	05-02-11L	05-02-11B	05-02-11Q
Code	vol.	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-02-11AJ	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-02-11AK	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-02-11AL	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-02-11AM	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-02-11AN	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-02-11AO	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-02-11AP	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-02-11AQ	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-02-11AR	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250ug/mL TAPO 05-02-11S Exp:05-09-11	Final Vol w/DI H2O
	mL
3	50
6	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

042

5-06-11
RS

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

	Expiration Date:		05/07/11									
		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	05-02-11AB	05-02-11AF	05-02-11X	05-02-12	05-02-11AE	05-02-11AC	05-02-11Y	05-02-11AA	05-02-11AD
Code	µg/L	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-06-11L	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-06-11M	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-06-11N	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-06-11O	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-06-11P	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-06-11Q	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-06-11R	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-06-11S	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-06-11T	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250µg/mL TAPD 05-02-11AG Exp:06-09-11	Final Vol w/P&T H2O mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-07-11
5-06-11
RS

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

	Expiration Date:		05/08/11									
		5µg/mL Vol Std #9	5µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #9	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	05-02-11AB	05-02-11AF	05-02-11X	05-02-12	05-02-11AE	05-02-11AC	05-02-11Y	05-02-11AA	05-02-11AD
Code	µg/L	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-07-11A	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-07-11B	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-07-11C	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-07-11D	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-07-11E	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-07-11F	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-07-11G	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-07-11H	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-07-11I	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250µg/mL TAPD 05-02-11AG Exp:05-09-11	Final Vol w/P&T H2O mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-07-11
RS

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

	Expiration Date:		05/09/11									
		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	05-02-11AB	05-02-11AF	05-02-11X	05-02-12	05-02-11AE	05-02-11AC	05-02-11Y	05-02-11AA	05-02-11AD
Code	µg/L	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-07-11J	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-07-11K	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-07-11L	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-07-11M	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-07-11N	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-07-11O	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-07-11P	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-07-11Q	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-07-11R	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250µg/mL TAPD 05-02-11AG Exp:05-09-11	Final Vol w/P&T H2O mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-09-11
RS.

A.

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

120016-03

Lot # 169238 Storage 5-10 Degrees C Expiry 2/19/14

Solv: P/T Methanol

RS

Method 8260 Gases

Lot #: 169238 - 28292

Rec: 2/17/11 MFR exp. 02/19/14

5-09-11 B-
RS

2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 2 X 0.6 ml

o2si
Cat. No: 020145-02-02
Lot No: 160092
Exp: 5/27/2012
Storage: <=-10 Degrees C
Solvent: P/T Methanol
For Research Use Only
Opened: _____

2-Chloroethyl vinyl ether
Lot #: 160092 - 26629
Rec: 6/4/10 MFR exp. 05/27/12

5-09-11 C.
RS

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

120002-01
Lot# 164565 Storage <-10 Degrees C Expiry 10/12/13
Solv: P/T Methanol

Method 8260B Surrogate
Lot #: 164565 - 27924
Rec: 12/15/10 MFR exp. 10/12/13

5-09-11 D.
RS

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

120166-01
Lot# 166725 Storage <-6 Degrees C Expiry 12/2/12
Solv: P/T Methanol

VOC Mix 4-3, 2000mg/L
Lot #: 166725 - 28314
Rec: 2/17/11 MFR exp. 12/02/12

5-09-11 E.
RS.

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml

o2si
Cat. No: 120016-03-SS
Lot No: 160736
Exp: 6/21/2013
Storage: <=-10 Degrees C
Solvent: P/T Methanol
For Research Use Only
Opened: _____

Method 8260 Gases (SS)
Lot #: 160736 - 27904
Rec: 12/15/10 MFR exp. 06/23/11

05-09-11P							
50ug/ml Vol Work Std #7							
Exp:05/16/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	169738-28292	05-09-11A	06/02/11	100
02SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
02SI	020228-02	Benzyl Chloride	1000	163393-27855	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3500
05-09-11G							
50ug/ml Vol Work Std #1							
Exp:05/16/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	146517-26192	05-09-11B	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	1950

5-09-11
RS.

044

05-09-11H							
50ug/ml Vol Work Std #8							
Exp:05/16/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	148446-24740	04-16-11E	05/14/11	100
02SI	120023-01	VOC'S-54 COMP	2000	151805-25632	04-25-11C	10/14/11	100
02SI	020212-02	Vinyl Acetate	2000	169439-28359	04-16-11F	05/19/11	100
02SI	020620-02	n-Hexane	1000	163278-27881	05-02-11D	06/14/11	200
02SI	020546-02	Heptane	1000	149236-27650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3300
05-09-11I							
50ug/ml Vol Work Std #2							
Exp:05/16/11			ug/ml				
Supplier	ID #	ID					
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-28308	04-25-11B	05/07/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3900
		05-09-11J	Exp:	05/16/11			
		5ug/ml Vol Work Std #3					
		SOURCE#	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		05-09-11F	05/02/11	200	
		50ug/ml Vol Work Std #8		05-09-11H	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1600	
		05-09-11K	Exp:	05/16/11			
		5ug/ml Vol Work Std #10					
		SOURCE#	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		05-09-11G	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1600	
		05-09-11L	Exp:	05/16/11			
		5ug/ml Vol Work Std #12					
		SOURCE#	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		05-09-11I	05/02/11	200	
		J&T Brand		H45E36-00514	05/09/11	1600	
05-09-11M							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/16/11			ug/ml	Lot #	Code	Date	uL
02SI	120002-01	8260B Surr Solution	2000	164585-27924	05-09-11C	09/14/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3900
05-09-11N			Exp:	05/16/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-09-11N	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	1600	
05-09-11O							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/16/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	166725-28314	05-09-11O	05/17/11	500
02SI	020229-09	Acrolein	10000	171923-28626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3400

5-09-11
RS

05-09-11P
50ug/ml VOC Std#5
Exp:05/16/11

Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
02SI	120016-03-SS	8260 Gases(SS)	2000	160736-27904	05-09-11E	06/02/11	50
02SI	020145-02-02-S	2-CEVE	2000	152530-25456	04-16-11L	11/03/11	50
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	1900

05-09-11Q
50ug/ml VOC Std#6
Exp:05/16/11

	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120023-03-SS	VOC'S 54 COMP.	2000	148634-26236	04-16-11M	07/14/11	50
02SI	120296-01	Custom 8260 Solution	2000	154846-26954	04-16-11N	07/14/11	50
02SI	020232-02-SS	Vinyl Acetate(SS)	2000	167127-28134	04-16-11R	05/15/11	50
02SI	020520-02-SS	n-HEXANE	1000	150529-27171	04-16-11O	09/02/11	100
02SI	020049-02-SS	HEXACHLOROETHANE	1000	154535-25914	04-16-11P	12/29/11	100
02SI	020546-02-SS	Heptane(SS)	1000	142276-23594	04-16-11Q	06/19/11	100
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	1550

05-09-11R
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P
Exp:05/16/11

Supplier	ID #		Conc. ug/ml	Lot #	Date Code	APPL Exp. Date	ul
02SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	152511-26241	04-03-11X	11/03/11	250
02SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	171924-28628	05-02-11J	05/25/11	50
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	1700

05-09-11S
50ug/ml Vol Work Std #7
Exp:05/16/11

Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
02SI	120016-03	Gas Mix	2000	169238-28292	05-09-11A	06/02/11	100
02SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
02SI	020228-02	Benzyl Chloride	1000	163373-27865	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3500

05-09-11T
50ug/ml Vol Work Std #1
Exp:05/16/11

Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	146517-26192	05-09-11B	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	1950

05-09-11U
50ug/ml Vol Work Std #8
Exp:05/16/11

Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	148446-25740	04-16-11E	05/14/11	100
02SI	120023-03	VOC'S-54 COMP	2000	151805-25632	04-25-11C	10/14/11	100
02SI	020232-02	Vinyl Acetate	2000	169419-28359	04-16-11F	05/19/11	100
02SI	020520-02	n-Hexane	1000	163378-27881	05-02-11D	06/14/11	200
02SI	020546-02	Heptane	1000	149216-27650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3300

05-09-11V
50ug/ml Vol Work Std #2
Exp:05/16/11

Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-28308	04-25-11B	05/07/11	100
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3900

	05-09-11W	Exp:	05/16/11			
	5ug/ml Vol Work Std #9					
SOURCES		Lot	APPL Code	APPL Exp Date	ul	
	50ug/ml Vol Work Std #7		05-09-11S	05/02/11	200	
	50ug/ml Vol Work Std #8		05-09-11U	05/02/11	200	
	J&T Brand		05/02/11	10/14/11	1600	

	05-09-11X	Exp:	05/16/11			
	5ug/ml Vol Work Std #10					
SOURCES		Lot	APPL Code	APPL Exp Date	ul	
	50ug/ml Vol Work Std #1		05-09-11T	05/02/11	200	
	J&T Brand		05/02/11	10/14/11	1800	

5-09-11 RS

5-09-11 RS

046

		05-09-11Y	Exp:	05/16/11			
		5ug/ml Vol Work Std #12					
		SOURCE#	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		05-09-11V	05/02/11	200	
		J&T Brand		H45E36-00514	05/09/11	1800	
05-09-11E							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/16/11			ug/ml	Lot #	Code	Date	uL
02SI	120002-01	8260B Surr Solution	2000	164585-27924	05-09-11C	09/14/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3900
05-09-11AA			Exp:	05/16/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-09-11E	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	1800	
05-09-11AB							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/16/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	166725-28314	05-09-11D	05/13/11	500
02SI	020229-09	Acrolein	10000	171923-28626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	3400

5-09-11 RS

RS

5-09-11 RS AC

Method 8260 Internal Standard Solution, 2,000 mg/L, 1 ml

o2si Cat. No: 120302-03
Lot No: 153416
Method 8260 Internal Standard
Lot #: 153416 - 27532
Rec: 10/12/10 MFR exp. 11/24/11

Exp: 11/24/2011
Storage: <= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only
Fund:

RS

5-09-11 RS AD

Fluorobenzene Solution, 2,000 mg/L, 1 ml

020132-02
Lot # 162971 Storage <6 Degrees C Expire 6/12/13
Solv: P/T Methanol
Fluorobenzene
Lot #: 162971 - 27950
Rec: 12/15/10 MFR exp. 06/12/13

RS

5-09-11 RS

Hewey							
05-09-11AE							
250ug/ml 8260 Internal Standard - Hewey			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120302-03	Internal Standard Mix	2000	153416-27532	05-09-11AC	07/16/11	500
02SI	020132-02	Fluorobenzene Standard	2000	162971-27950	05-09-11AD	07/16/11	500
JT Baker		Purge & Trap MeOH		H46E44-00509	04/25/11	12/14/11	3000
05-09-11AF							
250ug/ml 8260 Surrogate - Hewey			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120002-01	Surrogate Standard	2000	164585-27924	05-09-11C	08/16/11	500
B&J Brand		Purge & Trap MeOH		H46E44-00509	04/25/11	12/14/11	3500

5-11-11
RS.

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

	Expiration Date:		05/12/11							
		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	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	05-09-11W	05-09-11AA	05-09-11S	05-09-11U	05-09-11Z	05-09-11X	05-09-11T	05-09-11V	05-09-11Y
Code	µg/L	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11
05-11-11L	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
05-11-11M	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
05-11-11N	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
05-11-11O	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
05-11-11P	50	n/a	n/a	5	5	5	n/a	5	n/a	5
05-11-11Q	100	n/a	n/a	10	10	10	n/a	10	n/a	10
05-11-11R	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA	Final Vol
05-09-11AB	w/P&T H2O
Exp:05-16-11	mL
1	5
2	5
3	5
4	5
6	5
6	5
7	5

5-11-11
RS.

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

	Expiration Date:		05/12/11							
		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	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc.	05-09-11J	05-09-11N	05-09-11F	05-09-1H	05-09-11M	05-09-11K	05-09-11G	05-09-11I	05-09-11L
Code	µg/L	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11
05-11-11S	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-11-11T	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-11-11U	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-11-11V	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-11-11W	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-11-11X	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-11-11Y	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-11-11Z	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-11-11AA	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250µg/mL TAPD	Final Vol
05-09-11D	w/P&T H2O
Exp:05-16-11	mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-12-11
A-
RS

Method 8260 Internal Standard Solution, 2,000 mg/L, 1 ml

O2si
Cat. No: 120302-03
Lot No: 153416
Method 8260 Internal Standard
Lot #: 153416 - 27534
Rec: 10/12/10 MFR exp. 11/24/11

Exp: 11/24/2011
Storage: </= -10 Degrees C
Solvent: P/T Methanol
Option For Research Use Only
Opened: _____

5-12-11
B-
RS

Fluorobenzene Solution, 2,000 mg/L, 1 ml

020131-02

Lot #	Storage	Expiry
162971	≤6 Degrees C	8/12/13

Solv: P/T Methanol

Fluorobenzene
Lot #: 162971 - 27952
Rec: 12/15/10 MFR exp. 08/12/13

5-12-11
C-
RS

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

120002-01

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

Solv: P/T Methanol

Method 8260B Surrogate
Lot #: 164585 - 27930
Rec: 12/15/10 MFR exp. 10/12/13

Injection Log

Directory: M:\CHICO\DATA\C110422\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0422C00T.D	1	20ug/ml BFB STD 04-15-11A	2uL	22 Apr 11 15:43
2	1	0422C05W.[	1	Vol Std 04-22-11@0.5ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 18:36
3	1	0422C06W.[	1	Vol Std 04-22-11@1.0ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 19:11
4	1	0422C07W.[	1	Vol Std 04-22-11@2.0ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 19:46
5	1	0422C08W.[	1	Vol Std 04-22-11@5.0ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 20:21
6	1	0422C09W.[	1	Vol Std 04-22-11@10ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 20:57
7	1	0422C10W.[	1	Vol Std 04-22-11@20ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 21:32
8	1	0422C11W.[	1	Vol Std 04-22-11@40ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 22:07
9	1	0422C12W.[	1	Vol Std 04-22-11@100ug/L	Water 10ml w/IS: 04-12-11	22 Apr 11 22:42
10	1	0422C13T.D	1	20ug/ml BFB STD 04-15-11A	2ul	22 Apr 11 23:53
11	1	0422C14W.[	1	Vol Std 4-22-11@20ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 1:03
12	1	0422C15W.[	1	Vol Std 4-22-11@50ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 1:38
13	1	0422C16W.[	1	Vol Std 4-22-11@100ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 2:13
14	1	0422C17W.[	1	Vol Std 4-22-11@300ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 2:48
15	1	0422C18W.[	1	Vol Std 4-22-11@600ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 3:23
16	1	0422C19W.[	1	Vol Std 4-22-11@800ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 3:58
17	1	0422C20W.[	1	Vol Std 4-22-11@1000ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 4:33
18	1	0422C22W.[	1	GAS 300 ug/L STD(SS)	Water 10ml w/IS&S: 04-12-1	23 Apr 11 5:42
19	1	0422C23W.[	1	20ug/ml BFB STD 04-15-11A	2uL	23 Apr 11 6:18
20	1	0422C24W.[	1	GAS 300 ug/L STD	Water 10ml w/IS&S: 04-12-1	23 Apr 11 6:53
21	1	0422C25W.[	1	110422A LCS-1WC (SS)	Water 10ml w/IS&S: 04-12-1	23 Apr 11 7:28
22	1	0422C30W.[	1	110422A BLK-1WC	Water 10ml w/IS&S: 04-12-1	23 Apr 11 10:58
23	1	0422C31W.[	1	AY36318W01	Water 10ml w/IS&S: 04-12-1	23 Apr 11 11:33
24	1	0422C32W.[	1	AY36319W01	Water 10ml w/IS&S: 04-12-1	23 Apr 11 12:09
25	1	0422C33W.[	1	AY36311W01	Water 10ml w/IS&S: 04-12-1	23 Apr 11 12:44
26	1	0422C34W.[	1	AY36314W01	Water 10ml w/IS&S: 04-12-1	23 Apr 11 13:19
27	1	0422C35W.[	1	AY36315W01	Water 10ml w/IS&S: 04-12-1	23 Apr 11 13:54
28	1	0422C36W.[	1	AY36312W01	Water 10ml w/IS&S: 04-12-1	23 Apr 11 14:29
29	1	0422C37W.[	1	AY36313W01	Water 10ml w/IS&S: 04-12-1	23 Apr 11 15:04
30	1	0422C38W.[	1	AY36316W01	Water 10ml w/IS&S: 04-12-1	23 Apr 11 15:39
31	1	0422C39W.[	1	AY36317W01	Water 10ml w/IS&S: 04-12-1	23 Apr 11 16:14
32	1	0425C00T.D	1	20ug/ml BFB STD 04-15-11A	2uL	25 Apr 11 10:08
33	1	0425C01W.[	1	GAS 300 ug/L STD	Water 10ml w/IS&S: 04-12-1	25 Apr 11 10:41
34	1	0425C02W.[	1	110425A LCS-1WC	Water 10ml w/IS&S: 04-12-1	25 Apr 11 11:17
35	1	0425C07W.[	1	AY36312W234 MS-1WC	Water 10ml w/IS&S: 04-12-1	25 Apr 11 14:48
36	1	0425C08W.[	1	AY36312W234 MSD-1WC	Water 10ml w/IS&S: 04-12-1	25 Apr 11 15:23
37	1	0425C09W.[	1	AY36312W567MS-1WC	Water 10ml w/IS&S: 04-12-1	25 Apr 11 15:58
38	1	0425C10W.[	1	AY36312W567MSD-1WC	Water 10ml w/IS&S: 04-12-1	25 Apr 11 16:34

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	04/27/11	04/28/11	#602D-110427A-AY36312

Metals SC-Blank-REG MDLs
Printed: 05/06/11 3:25:07 PM

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOLVED)	250	234	93.6	80-120	04/27/11	04/28/11	#602D-110427A-AY36312

350

Comments: _____

_____

_____

Printed: 05/06/11 3:25:12 PM
APPL Standard LCS

Matrix Spike Recoveries

METALS

APPL ID: **110427W-36312 MS - 154608**

Sample ID: AY36312

Client ID: ES020

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	250	ND	226	230	90.4	92.0	1.8	20	80-120	04/27/11	04/28/11	04/27/11	04/28/11	154608	AY36312

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: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES019
Sample Collection Date: 04/19/11

ARF: 64475
APPL ID: AY36311

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	04/27/11	04/28/11

Printed: 05/06/11 3:25:40 PM

APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\053SMPL.D\053SMPL.D#
Date Acquired: Apr 28 2011 05:23 pm
Operator: SDM
Sample Name: AY36311W08
Misc Info: 110427A-3015
Vial Number: 3208
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	-0.15	ug/l	-0.17	1.58	1000	
11 B	48.43	ug/l	53.81	0.99	1000	
23 Na	40420.00	ug/l	44906.62	2.28	25000	>Cal
24 Mg	16690.00	ug/l	18542.59	1.83	50000	
27 Al	40.92	ug/l	45.46	5.00	20000	
39 K	2463.00	ug/l	2736.39	1.32	20000	
44 Ca	18470.00	ug/l	20520.17	1.05	50000	
47 Ti	1.32	ug/l	1.47	20.23	1000	
51 V	14.22	ug/l	15.80	3.04	1000	
52 Cr	2.36	ug/l	2.62	2.35	1000	
55 Mn	6.55	ug/l	7.28	1.37	1000	
56 Fe	35.66	ug/l	39.62	1.14	20000	
59 Co	0.14	ug/l	0.16	10.97	1000	
60 Ni	0.49	ug/l	0.54	2.34	1000	
63 Cu	0.37	ug/l	0.41	3.08	1000	
65 Cu	0.39	ug/l	0.44	16.51	1000	
66 Zn	13.72	ug/l	15.24	0.95	1000	
75 As	0.13	ug/l	0.14	11.44	1000	
78 Se	0.22	ug/l	0.24	15.27	1000	
78 Se	0.16	ug/l	0.18	118.13	1000	
88 Sr	140.40	ug/l	155.98	0.81	1000	
88 Sr	140.10	ug/l	155.65	0.49	1000	
95 Mo	0.73	ug/l	0.82	5.14	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	0.00	ug/l	0.01	52.29	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	-0.01	ug/l	-0.01	112.02	1000	
118 Sn	0.36	ug/l	0.40	17.54	1000	
121 Sb	0.14	ug/l	0.15	12.36	1000	
137 Ba	7.30	ug/l	8.11	2.62	1000	
205 Tl	0.04	ug/l	0.05	1.56	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	-0.07	ug/l	-0.08	4.90	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1647016.90	1.41	1867730.90	88.2	70 - 120	
45 Sc	955668.06	0.69	860905.50	111.0	70 - 120	
45 Sc	33038.71	1.72	30466.40	108.4	70 - 120	
45 Sc	1656162.10	0.55	1514635.40	109.3	70 - 120	
72 Ge	196008.80	0.44	175233.81	111.9	70 - 120	
72 Ge	15159.56	0.85	13286.95	114.1	70 - 120	
72 Ge	275525.28	0.62	261657.25	105.3	70 - 120	
115 In	1497262.50	1.77	1427636.50	104.9	70 - 120	
159 Tb	1870811.80	0.78	1715789.30	109.0	70 - 120	
165 Ho	1818752.80	0.67	1678833.30	108.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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

Metals Analysis

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES020

APPL ID: AY36312

Sample Collection Date: 04/19/11

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	04/27/11	04/28/11

Printed: 05/09/11 10:52:50 AM

APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\058SMPL.D\058SMPL.D#
Date Acquired: Apr 28 2011 05:53 pm
Operator: SDM
Sample Name: AY36312W29
Misc Info: 110427A-3015
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	#VALUE!	--------	0	
9 Be	-0.15 ug/l	-0.16	1.34	1000	
11 B	106.40 ug/l	118.21	3.25	1000	
23 Na	74320.00 ug/l	82569.52	1.76	25000	>Cal
24 Mg	26170.00 ug/l	29074.87	1.13	50000	
27 Al	48.20 ug/l	53.55	4.61	20000	
39 K	2941.00 ug/l	3267.45	0.90	20000	
44 Ca	15790.00 ug/l	17542.69	1.59	50000	
47 Ti	2.11 ug/l	2.35	10.00	1000	
51 V	1.97 ug/l	2.19	4.12	1000	
52 Cr	0.73 ug/l	0.81	5.22	1000	
55 Mn	1705.00 ug/l	1894.26	0.47	1000	>Cal
56 Fe	593.10 ug/l	658.93	0.60	20000	
59 Co	0.87 ug/l	0.96	3.76	1000	
60 Ni	2.65 ug/l	2.94	1.30	1000	
63 Cu	0.78 ug/l	0.86	3.80	1000	
65 Cu	0.77 ug/l	0.86	0.45	1000	
66 Zn	52.61 ug/l	58.45	1.13	1000	
75 As	0.91 ug/l	1.01	5.69	1000	
78 Se	0.09 ug/l	0.10	39.71	1000	
78 Se	0.29 ug/l	0.32	45.86	1000	
88 Sr	130.00 ug/l	144.43	0.90	1000	
88 Sr	135.40 ug/l	150.43	4.23	1000	
95 Mo	0.99 ug/l	1.10	4.79	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	########	
107 Ag	0.00 ug/l	0.00	2665.50	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	########	
111 Cd	0.00 ug/l	0.00	4997.10	1000	
118 Sn	1.50 ug/l	1.66	4.46	1000	
121 Sb	0.79 ug/l	0.88	4.29	1000	
137 Ba	32.83 ug/l	36.47	4.15	1000	
205 Tl	0.03 ug/l	0.04	8.28	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	########	
207 (Pb)	-------- ug/l	#VALUE!	--------	########	
208 Pb	-0.03 ug/l	-0.03	52.16	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1643609.60	3.63	1867730.90	88.0	70 - 120	
45 Sc	961883.63	1.42	860905.50	111.7	70 - 120	
45 Sc	32136.70	1.54	30466.40	105.5	70 - 120	
45 Sc	1679348.90	3.42	1514635.40	110.9	70 - 120	
72 Ge	188596.33	0.82	175233.81	107.6	70 - 120	
72 Ge	14396.18	0.39	13286.95	108.3	70 - 120	
72 Ge	258285.50	3.60	261657.25	98.7	70 - 120	
115 In	1407236.00	3.76	1427636.50	98.6	70 - 120	
159 Tb	1743324.40	3.70	1715789.30	101.6	70 - 120	
165 Ho	1709445.10	3.76	1678833.30	101.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

Metals Analysis

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES021

APPL ID: AY36313

Sample Collection Date: 04/19/11

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	04/27/11	04/28/11

Printed: 05/06/11 3:25:40 PM

APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\063SMPL.D\063SMPL.D#
Date Acquired: Apr 28 2011 06:23 pm
Operator: SDM
Sample Name: AY36313W08
Misc Info: 110427A-3015
Vial Number: 3302
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	#VALUE!	--------	0	
9 Be	-0.15 ug/l	-0.16	3.06	1000	
11 B	107.40 ug/l	119.32	1.15	1000	
23 Na	78150.00 ug/l	86824.65	0.68	25000	>Cal
24 Mg	27090.00 ug/l	30096.99	0.89	50000	
27 Al	18.67 ug/l	20.74	6.36	20000	
39 K	2936.00 ug/l	3261.90	0.38	20000	
44 Ca	15440.00 ug/l	17153.84	0.54	50000	
47 Ti	1.22 ug/l	1.35	11.78	1000	
51 V	2.01 ug/l	2.23	1.26	1000	
52 Cr	0.28 ug/l	0.31	5.32	1000	
55 Mn	1641.00 ug/l	1823.15	1.59	1000	>Cal
56 Fe	543.30 ug/l	603.61	1.19	20000	
59 Co	0.14 ug/l	0.15	7.68	1000	
60 Ni	2.11 ug/l	2.35	3.75	1000	
63 Cu	0.37 ug/l	0.41	2.22	1000	
65 Cu	0.41 ug/l	0.46	11.19	1000	
66 Zn	12.79 ug/l	14.21	2.22	1000	
75 As	0.99 ug/l	1.09	7.16	1000	
78 Se	0.12 ug/l	0.14	16.51	1000	
78 Se	0.35 ug/l	0.39	20.22	1000	
88 Sr	129.10 ug/l	143.43	1.27	1000	
88 Sr	135.10 ug/l	150.10	0.51	1000	
95 Mo	0.86 ug/l	0.96	3.16	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	0.17 ug/l	0.19	4.27	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.00 ug/l	0.00	3629.70	1000	
118 Sn	1.09 ug/l	1.21	2.12	1000	
121 Sb	0.73 ug/l	0.81	3.21	1000	
137 Ba	31.92 ug/l	35.46	1.42	1000	
205 Tl	0.02 ug/l	0.02	29.83	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	-0.17 ug/l	-0.18	5.04	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1850669.40	1.04	1867730.90	99.1	70 - 120	
45 Sc	917649.50	1.41	860905.50	106.6	70 - 120	
45 Sc	30961.22	2.50	30466.40	101.6	70 - 120	
45 Sc	1739716.80	2.36	1514635.40	114.9	70 - 120	
72 Ge	179805.98	1.03	175233.81	102.6	70 - 120	
72 Ge	14038.42	1.42	13286.95	105.7	70 - 120	
72 Ge	266008.59	0.52	261657.25	101.7	70 - 120	
115 In	1479733.50	0.28	1427636.50	103.6	70 - 120	
159 Tb	1851050.40	2.39	1715789.30	107.9	70 - 120	
165 Ho	1814030.80	3.20	1678833.30	108.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

Metals Analysis

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64475

Sample ID: ES024

APPL ID: AY36316

Sample Collection Date: 04/20/11

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	04/27/11	04/28/11

Printed: 05/06/11 3:25:40 PM

APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\064SMPL.D\064SMPL.D#
Date Acquired: Apr 28 2011 06:29 pm
Operator: SDM
Sample Name: AY36316W08
Misc Info: 110427A-3015
Vial Number: 3303
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	#VALUE!	--------	0	
9 Be	-0.15 ug/l	-0.17	3.05	1000	
11 B	158.60 ug/l	176.20	0.67	1000	
23 Na	42480.00 ug/l	47195.28	0.94	25000	>Cal
24 Mg	12220.00 ug/l	13576.42	0.95	50000	
27 Al	21.78 ug/l	24.20	6.07	20000	
39 K	2052.00 ug/l	2279.77	0.14	20000	
44 Ca	10170.00 ug/l	11298.87	0.15	50000	
47 Ti	1.19 ug/l	1.32	76.81	1000	
51 V	19.56 ug/l	21.73	1.43	1000	
52 Cr	3.23 ug/l	3.59	2.96	1000	
55 Mn	65.31 ug/l	72.56	1.26	1000	
56 Fe	34.61 ug/l	38.45	1.02	20000	
59 Co	-0.06 ug/l	-0.07	12.52	1000	
60 Ni	1.20 ug/l	1.33	3.17	1000	
63 Cu	0.65 ug/l	0.73	0.50	1000	
65 Cu	0.61 ug/l	0.68	4.80	1000	
66 Zn	28.07 ug/l	31.19	1.89	1000	
75 As	0.35 ug/l	0.39	6.90	1000	
78 Se	0.13 ug/l	0.15	24.63	1000	
78 Se	0.29 ug/l	0.33	114.54	1000	
88 Sr	80.44 ug/l	89.37	0.68	1000	
88 Sr	83.90 ug/l	93.21	0.96	1000	
95 Mo	1.83 ug/l	2.03	2.52	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	0.14 ug/l	0.15	10.62	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.02 ug/l	0.03	18.82	1000	
118 Sn	1.10 ug/l	1.22	2.21	1000	
121 Sb	0.31 ug/l	0.34	10.31	1000	
137 Ba	4.15 ug/l	4.62	1.13	1000	
205 Tl	0.02 ug/l	0.02	5.38	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	-0.09 ug/l	-0.10	4.70	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1899742.30	1.02	1867730.90	101.7	70 - 120	
45 Sc	909853.81	0.78	860905.50	105.7	70 - 120	
45 Sc	31272.65	2.36	30466.40	102.6	70 - 120	
45 Sc	1681153.00	0.94	1514635.40	111.0	70 - 120	
72 Ge	188702.03	0.99	175233.81	107.7	70 - 120	
72 Ge	14261.97	2.17	13286.95	107.3	70 - 120	
72 Ge	269682.06	1.11	261657.25	103.1	70 - 120	
115 In	1498213.50	1.48	1427636.50	104.9	70 - 120	
159 Tb	1844944.00	0.71	1715789.30	107.5	70 - 120	
165 Ho	1803222.80	1.44	1678833.30	107.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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

Metals Analysis

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES025
Sample Collection Date: 04/20/11

ARF: 64475
APPL ID: AY36317

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	04/27/11	04/28/11

Printed: 05/06/11 3:25:40 PM
APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\11D28m00.B\065SMPL.D\065SMPL.D#
Date Acquired:	Apr 28 2011 06:35 pm
Operator:	SDM
Sample Name:	AY36317W08
Misc Info:	110427A-3015
Vial Number:	3304
Current Method:	C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File:	C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update:	Apr 28 2011 01:00 pm
Sample Type:	Sample
Prep Dil Factor:	1.11
Total Dil Factor:	1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	#VALUE!	--------	0	
9 Be	-0.15 ug/l	-0.17	1.56	1000	
11 B	144.10 ug/l	160.10	0.24	1000	
23 Na	81250.00 ug/l	90268.75	0.47	25000	>Cal
24 Mg	27640.00 ug/l	30708.04	0.76	50000	
27 Al	19.32 ug/l	21.46	5.35	20000	
39 K	3334.00 ug/l	3704.07	0.20	20000	
44 Ca	23330.00 ug/l	25919.63	0.55	50000	
47 Ti	0.75 ug/l	0.84	15.19	1000	
51 V	16.36 ug/l	18.18	0.33	1000	
52 Cr	0.81 ug/l	0.90	1.21	1000	
55 Mn	101.50 ug/l	112.77	1.38	1000	
56 Fe	71.28 ug/l	79.19	0.56	20000	
59 Co	0.62 ug/l	0.69	1.72	1000	
60 Ni	3.12 ug/l	3.47	2.45	1000	
63 Cu	0.92 ug/l	1.03	1.42	1000	
65 Cu	0.90 ug/l	1.00	4.02	1000	
66 Zn	19.16 ug/l	21.29	1.58	1000	
75 As	0.62 ug/l	0.69	10.47	1000	
78 Se	0.09 ug/l	0.11	22.77	1000	
78 Se	0.15 ug/l	0.17	123.54	1000	
88 Sr	145.70 ug/l	161.87	0.97	1000	
88 Sr	151.10 ug/l	167.87	0.98	1000	
95 Mo	11.61 ug/l	12.90	0.78	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	########	
107 Ag	0.13 ug/l	0.14	10.69	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	########	
111 Cd	0.01 ug/l	0.01	202.16	1000	
118 Sn	0.60 ug/l	0.67	2.88	1000	
121 Sb	0.23 ug/l	0.25	7.19	1000	
137 Ba	11.88 ug/l	13.20	0.70	1000	
205 Tl	0.03 ug/l	0.03	8.56	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	########	
207 (Pb)	-------- ug/l	#VALUE!	--------	########	
208 Pb	-0.13 ug/l	-0.14	7.09	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1795745.50	0.85	1867730.90	96.1	70 - 120	
45 Sc	927792.56	0.92	860905.50	107.8	70 - 120	
45 Sc	30931.15	2.43	30466.40	101.5	70 - 120	
45 Sc	1705291.80	1.19	1514635.40	112.6	70 - 120	
72 Ge	184702.69	0.34	175233.81	105.4	70 - 120	
72 Ge	14091.81	1.15	13286.95	106.1	70 - 120	
72 Ge	264708.25	0.59	261657.25	101.2	70 - 120	
115 In	1461717.00	1.46	1427636.50	102.4	70 - 120	
159 Tb	1833260.90	1.69	1715789.30	106.8	70 - 120	
165 Ho	1805754.80	2.14	1678833.30	107.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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

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: 64475 SDG: 64475
Initial Calibration Source: CPI
Continuing Calibration Source: Environmental Express
Analysis Date: 04/28/11 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 13:02	%R(1)	True CCV1	Found 13:27	%R(1)	True CCV1	Found 14:33	%R(1)	
Lead (Pb)	100	99.03	99.0	50	50.47	101	50	49.15	98.3	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: 64475 SDG: 64475

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 04/28/11 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 13:02	%R(1)	True CCV1	Found 16:10	%R(1)	True CCV1	Found 17:35	%R(1)	
Lead (Pb)	100	99.03	99.0	50	49.06	98.1	50	49.2	98.4	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: 64475 SDG: 64475

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 04/28/11 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 13:02	%R(1)	True CCV1	Found 18:59	%R(1)	True	Found	%R(1)	
Lead (Pb)	100	99.03	99.0	50	48.28	96.6				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.: 64475 SDG: 64475

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 04/28/11

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	13:51		13:57		14:57		16:22		15:09		
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.: 64475 SDG: 64475

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 04/28/11

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	13:51		17:47		19:12				15:09		
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.:	64475	SDG:	64475
ICP ID Number:	Optimus	ICS Source:	Environmental Express

Analysis Date: 04/28/11 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 14:15	Sol AB 14:21	%R(1)
Lead (Pb)		500	3.11	462.6	92.5

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

ES020

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 64475 SDG: 64475

Analysis Date: 04/28/11 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	117.105		-0.0331557		138.887	84.3		

Comments:

04/28/11 17:53 AY36312W29

04/28/11 18:11 AY36312W29-A

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\061SMPL.D\061SMPL.D#
Date Acquired: Apr 28 2011 06:11 pm
Operator: SDM
Sample Name: AY36312W29-A
Misc Info: 110427A-3015
Vial Number: 3212
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	18.37	ug/l	20.41	0.68	1000	
11 B	195.10	ug/l	216.76	0.79	1000	
23 Na	86160.00	ug/l	95723.76	3.39	25000	>Cal
24 Mg	37330.00	ug/l	41473.63	2.74	50000	
27 Al	992.10	ug/l	1102.22	1.63	20000	
39 K	4884.00	ug/l	5426.12	2.12	20000	
44 Ca	26970.00	ug/l	29963.67	1.72	50000	
47 Ti	28.01	ug/l	31.12	1.30	1000	
51 V	119.60	ug/l	132.88	1.82	1000	
52 Cr	119.90	ug/l	133.21	2.65	1000	
55 Mn	1847.00	ug/l	2052.02	2.84	1000	>Cal
56 Fe	1039.00	ug/l	1154.33	3.08	20000	
59 Co	110.40	ug/l	122.65	2.98	1000	
60 Ni	107.80	ug/l	119.77	3.05	1000	
63 Cu	103.10	ug/l	114.54	2.94	1000	
65 Cu	102.70	ug/l	114.10	2.37	1000	
66 Zn	245.00	ug/l	272.20	1.10	1000	
75 As	103.60	ug/l	115.10	1.69	1000	
78 Se	96.03	ug/l	106.69	0.48	1000	
78 Se	91.86	ug/l	102.06	0.89	1000	
88 Sr	240.00	ug/l	266.64	1.63	1000	
88 Sr	244.10	ug/l	271.20	1.57	1000	
95 Mo	32.17	ug/l	35.74	3.48	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	32.16	ug/l	35.73	29.99	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	21.18	ug/l	23.53	1.15	1000	
118 Sn	30.61	ug/l	34.01	3.58	1000	
121 Sb	31.19	ug/l	34.65	1.72	1000	
137 Ba	143.80	ug/l	159.76	0.42	1000	
205 Tl	94.20	ug/l	104.66	4.22	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	105.50	ug/l	117.21	0.53	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1798035.80	0.49	1867730.90	96.3	70 - 120	
45 Sc	951336.19	1.14	860905.50	110.5	70 - 120	
45 Sc	30594.90	4.05	30466.40	100.4	70 - 120	
45 Sc	1734166.50	0.95	1514635.40	114.5	70 - 120	
72 Ge	185029.92	0.39	175233.81	105.6	70 - 120	
72 Ge	13934.24	3.27	13286.95	104.9	70 - 120	
72 Ge	263186.25	0.69	261657.25	100.6	70 - 120	
115 In	1463504.50	0.93	1427636.50	102.5	70 - 120	
159 Tb	1819799.80	1.02	1715789.30	106.1	70 - 120	
165 Ho	1798418.40	0.53	1678833.30	107.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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.

ES020

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 64475 SDG: 64475

Matrix: water

Analysis Date: 04/28/11 Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	%D	Q	M
Lead (Pb)	-0.0331557		-1.104772		NA		

Comments:

04/28/11 17:53 AY36312W29

04/28/11 18:17 AY36312W29-1/5

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\062SMPL.D\062SMPL.D#
Date Acquired: Apr 28 2011 06:17 pm
Operator: SDM
Sample Name: AY36312W29-1/5
Misc Info: 110427A-3015
Vial Number: 3301
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 5.56
Total Dil Factor: 5.56

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	-0.15	ug/l	-0.82	3.04	1000	
11 B	28.12	ug/l	156.23	0.32	1000	
23 Na	16230.00	ug/l	90173.88	1.65	25000	
24 Mg	5717.00	ug/l	31763.65	0.96	50000	
27 Al	9.10	ug/l	50.55	1.53	20000	
39 K	610.50	ug/l	3391.94	2.07	20000	
44 Ca	3164.00	ug/l	17579.18	1.97	50000	
47 Ti	0.60	ug/l	3.32	13.38	1000	
51 V	1.10	ug/l	6.10	5.27	1000	
52 Cr	0.17	ug/l	0.94	19.57	1000	
55 Mn	367.00	ug/l	2039.05	0.80	1000	
56 Fe	122.30	ug/l	679.50	1.79	20000	
59 Co	0.01	ug/l	0.05	116.82	1000	
60 Ni	0.62	ug/l	3.45	2.92	1000	
63 Cu	0.18	ug/l	0.98	12.64	1000	
65 Cu	0.14	ug/l	0.79	21.73	1000	
66 Zn	11.50	ug/l	63.89	1.67	1000	
75 As	0.45	ug/l	2.50	9.46	1000	
78 Se	0.19	ug/l	1.08	19.30	1000	
78 Se	0.18	ug/l	1.02	67.93	1000	
88 Sr	25.27	ug/l	140.40	2.56	1000	
88 Sr	26.80	ug/l	148.90	0.47	1000	
95 Mo	0.43	ug/l	2.39	9.71	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	1.08	ug/l	6.01	2.09	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	0.00	ug/l	0.00	1212.50	1000	
118 Sn	0.68	ug/l	3.77	5.08	1000	
121 Sb	1.40	ug/l	7.78	1.96	1000	
137 Ba	6.27	ug/l	34.81	0.89	1000	
205 Tl	0.01	ug/l	0.05	35.37	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	-0.20	ug/l	-1.10	2.73	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2090908.10	1.07	1867730.90	111.9	70 - 120	
45 Sc	912356.75	1.60	860905.50	106.0	70 - 120	
45 Sc	30756.01	2.43	30466.40	101.0	70 - 120	
45 Sc	1587102.10	1.32	1514635.40	104.8	70 - 120	
72 Ge	203307.08	1.90	175233.81	116.0	70 - 120	
72 Ge	14261.24	2.32	13286.95	107.3	70 - 120	
72 Ge	283806.28	0.96	261657.25	108.5	70 - 120	
115 In	1503117.00	1.35	1427636.50	105.3	70 - 120	
159 Tb	1854914.90	1.58	1715789.30	108.1	70 - 120	
165 Ho	1819322.60	1.53	1678833.30	108.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\11D28m00.B\005CAL
Date Acquired:	Apr 28 2011 12:32 pm
Operator:	SDM
Sample Name:	Calibration Blank
Misc Info:	
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File:	C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update:	Apr 28 2011 12:29 pm
Sample Type:	CalBlk
Total Dil Factor:	1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1867731.00	A	18890.00	1.01
7	(Li)	119957.10	P	415.50	0.35
9	Be	1017.85	P	34.21	3.36
11	B	2301.37	P	90.10	3.92
23	Na	26191.44	P	21.62	0.08
24	Mg	617.81	P	61.95	10.03
27	Al	107.78	P	22.20	20.60
39	K	13512.20	P	352.00	2.61
44	Ca	106.22	P	8.88	8.36
45	Sc	860905.50	M	46790.00	5.44
45	Sc	30466.40	P	238.80	0.78
45	Sc	1514635.00	A	11030.00	0.73
47	Ti	1.33	P	2.31	173.17
51	V	148.45	P	20.06	13.51
52	Cr	78.22	P	3.36	4.29
55	Mn	46.67	P	6.11	13.09
56	Fe	5777.77	P	98.06	1.70
59	Co	511.57	P	10.78	2.11
60	Ni	39.11	P	6.84	17.49
63	Cu	250.67	P	10.41	4.15
65	Cu	128.89	P	2.04	1.58
66	Zn	220.00	P	16.17	7.35
72	Ge	175233.80	P	1594.00	0.91
72	Ge	13286.95	P	144.30	1.09
72	Ge	261657.20	P	1089.00	0.42
75	As	7.44	P	1.95	26.23
78	Se	19.22	P	2.04	10.60
78	Se	2.56	P	1.02	39.84
88	Sr	30.00	P	5.77	19.25
88	Sr	754.49	P	38.93	5.16
95	Mo	373.35	P	56.96	15.26
106	(Cd)	10.00	P	8.82	88.19
107	Ag	486.69	P	34.80	7.15
108	(Cd)	13.33	P	5.77	43.30
111	Cd	31.70	P	19.70	62.14
115	In	1427636.00	A	5708.00	0.40
118	Sn	1671.27	P	67.53	4.04
121	Sb	653.37	P	29.06	4.45
137	Ba	124.45	P	5.09	4.09
159	Tb	1715789.00	A	14820.00	0.86
165	Ho	1678833.00	A	4567.00	0.27
205	Tl	206.68	P	41.77	20.21
206	(Pb)	1101.20	P	27.76	2.52
207	(Pb)	993.41	P	26.04	2.62
208	Pb	4327.10	P	66.93	1.55

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\006CALS.D\006CALS.D#
Date Acquired: Apr 28 2011 12:38 pm
Operator: SDM
Sample Name: 110425 Standard 1
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 12:36 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1853922.00	A	3169.00	0.17	0.0000
7 (Li)	119171.60	P	624.90	0.52	0.0000
9 Be	708.93	P	50.15	7.07	0.0000
11 B	2380.27	P	166.80	7.01	0.0000
23 Na	22273.91	P	370.90	1.67	0.0000
24 Mg	1217.87	P	63.37	5.20	0.0000
27 Al	162.23	P	8.39	5.17	0.0000
39 K	13592.23	P	519.60	3.82	0.0000
44 Ca	120.38	P	29.89	24.83	0.0000
45 Sc	873299.31	P	4597.00	0.53	0.0000
45 Sc	30437.79	P	342.80	1.13	0.0000
45 Sc	1501345.00	A	8294.00	0.55	0.0000
47 Ti	4.00	P	2.31	57.72	0.0000
51 V	278.67	P	17.44	6.26	0.0000
52 Cr	197.34	P	10.91	5.53	0.0000
55 Mn	94.22	P	14.87	15.78	0.0000
56 Fe	7328.15	P	115.60	1.58	0.0000
59 Co	401.79	P	26.07	6.49	0.0000
60 Ni	114.22	P	6.01	5.26	0.0000
63 Cu	412.46	P	37.53	9.10	0.0000
65 Cu	197.78	P	10.69	5.40	0.0000
66 Zn	269.78	P	31.28	11.59	0.0000
72 Ge	175455.30	P	94.44	0.05	0.0000
72 Ge	13261.75	P	141.80	1.07	0.0000
72 Ge	260743.80	P	270.80	0.10	0.0000
75 As	19.44	P	1.84	9.44	0.0000
78 Se	40.56	P	2.59	6.38	0.0000
78 Se	3.44	P	1.35	39.11	0.0000
88 Sr	48.89	P	8.39	17.16	0.0000
88 Sr	1935.76	P	26.95	1.39	0.0000
95 Mo	598.92	P	70.27	11.73	0.0000
106 (Cd)	26.67	P	6.67	25.00	0.0000
107 Ag	920.06	P	38.45	4.18	0.0000
108 (Cd)	25.56	P	5.09	19.92	0.0000
111 Cd	197.13	P	33.14	16.81	0.0000
115 In	1407898.00	A	4045.00	0.29	0.0000
118 Sn	1920.20	P	49.33	2.57	0.0000
121 Sb	1247.88	P	76.77	6.15	0.0000
137 Ba	335.57	P	53.16	15.84	0.0000
159 Tb	1700246.00	A	19040.00	1.12	0.0000
165 Ho	1661506.00	A	8821.00	0.53	0.0000
205 Tl	1310.12	P	43.34	3.31	0.0000
206 (Pb)	871.17	P	82.22	9.44	0.0000
207 (Pb)	735.60	P	25.02	3.40	0.0000
208 Pb	3412.52	P	25.02	0.73	0.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1853922.30	0.17	1867730.90	99.3	70 -	120	
45 Sc	873299.31	0.53	860905.50	101.4	70 -	120	
45 Sc	30437.79	1.13	30466.40	99.9	70 -	120	
45 Sc	1501345.30	0.55	1514635.40	99.1	70 -	120	
72 Ge	175455.34	0.05	175233.81	100.1	70 -	120	
72 Ge	13261.75	1.07	13286.95	99.8	70 -	120	
72 Ge	260743.83	0.10	261657.25	99.7	70 -	120	
115 In	1407897.60	0.29	1427636.50	98.6	70 -	120	
159 Tb	1700246.10	1.12	1715789.30	99.1	70 -	120	
165 Ho	1661506.00	0.53	1678833.30	99.0	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\007CALS.D\007CALS.D#
Date Acquired:	Apr 28 2011 12:44 pm
Operator:	SDM
Sample Name:	110425 Standard 2
Misc Info:	
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File:	C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update:	Apr 28 2011 12:42 pm
Sample Type:	CalStd
Total Dil Factor:	1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1850543.00	A	11830.00	0.64	0.0000
7 (Li)	119159.60	P	409.70	0.34	-1.0000
9 Be	6542.75	P	172.40	2.64	-1.0000
11 B	5776.86	P	186.00	3.22	1.0000
23 Na	28833.03	P	446.30	1.55	-1.0000
24 Mg	9501.13	P	259.50	2.73	1.0000
27 Al	1352.33	P	102.90	7.61	1.0000
39 K	15431.91	P	289.00	1.87	1.0000
44 Ca	327.74	P	23.50	7.17	1.0000
45 Sc	846486.00	M	36340.00	4.29	0.0000
45 Sc	30351.02	P	598.30	1.97	0.0000
45 Sc	1513549.00	A	13410.00	0.89	0.0000
47 Ti	37.78	P	7.70	20.38	1.0000
51 V	1204.51	P	50.77	4.22	1.0000
52 Cr	1404.53	P	10.78	0.77	1.0000
55 Mn	614.24	P	44.31	7.21	1.0000
56 Fe	25468.58	P	290.90	1.14	1.0000
59 Co	2331.77	P	9.83	0.42	-1.0000
60 Ni	686.69	P	28.00	4.08	1.0000
63 Cu	1913.93	P	10.78	0.56	1.0000
65 Cu	948.04	P	37.05	3.91	1.0000
66 Zn	401.79	P	17.91	4.46	1.0000
72 Ge	175156.00	P	341.20	0.19	0.0000
72 Ge	13224.68	P	233.90	1.77	0.0000
72 Ge	262379.19	P	905.60	0.35	0.0000
75 As	111.33	P	8.72	7.83	1.0000
78 Se	221.22	P	16.28	7.36	1.0000
78 Se	7.33	P	1.20	16.39	1.0000
88 Sr	447.80	P	41.41	9.25	1.0000
88 Sr	16695.82	P	373.10	2.23	1.0000
95 Mo	2935.96	P	60.51	2.06	1.0000
106 (Cd)	190.01	P	20.28	10.67	1.0000
107 Ag	4313.01	P	71.68	1.66	1.0000
108 (Cd)	136.67	P	20.28	14.84	1.0000
111 Cd	1524.33	P	54.59	3.58	1.0000
115 In	1412091.00	A	5562.00	0.39	0.0000
118 Sn	5860.31	P	159.50	2.72	1.0000
121 Sb	5831.44	P	172.50	2.96	1.0000
137 Ba	2222.49	P	110.80	4.99	1.0000
159 Tb	1728548.00	A	22220.00	1.29	0.0000
165 Ho	1685698.00	A	20620.00	1.22	0.0000
205 Tl	11493.17	P	37.93	0.33	1.0000
206 (Pb)	4384.22	P	193.40	4.41	-1.0000
207 (Pb)	3770.67	P	84.15	2.23	-1.0000
208 Pb	17270.56	P	222.50	1.29	-1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1850543.50	0.64	1867730.90	99.1	70 -	120	
45 Sc	846486.00	4.29	860905.50	98.3	70 -	120	
45 Sc	30351.02	1.97	30466.40	99.6	70 -	120	
45 Sc	1513549.10	0.89	1514635.40	99.9	70 -	120	
72 Ge	175156.00	0.19	175233.81	100.0	70 -	120	
72 Ge	13224.68	1.77	13286.95	99.5	70 -	120	
72 Ge	262379.25	0.35	261657.25	100.3	70 -	120	
115 In	1412091.50	0.39	1427636.50	98.9	70 -	120	
159 Tb	1728548.10	1.29	1715789.30	100.7	70 -	120	
165 Ho	1685698.40	1.22	1678833.30	100.4	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\008CALS.D\008CALS.D#
Date Acquired: Apr 28 2011 12:50 pm
Operator: SDM
Sample Name: 110425 Standard 3
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 12:48 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1844699.00	A	3984.00	0.22	0.0000
7 (Li)	118336.00	P	511.60	0.43	-0.5872
9 Be	318836.59	P	778.50	0.24	0.9906
11 B	191311.41	P	11640.00	6.08	0.9978
23 Na	509281.50	P	6941.00	1.36	0.7562
24 Mg	476105.00	P	6132.00	1.29	0.9995
27 Al	61747.73	P	366.40	0.59	0.9986
39 K	110076.50	P	324.00	0.29	0.9988
44 Ca	11402.33	P	166.50	1.46	0.9994
45 Sc	853502.69	M	39610.00	4.64	0.0000
45 Sc	30874.26	P	384.90	1.25	0.0000
45 Sc	1522904.00	A	12070.00	0.79	0.0000
47 Ti	1570.33	P	58.01	3.69	0.9997
51 V	52906.24	P	526.50	1.00	0.9998
52 Cr	68071.52	P	935.80	1.37	1.0000
55 Mn	29729.04	P	343.10	1.15	0.9999
56 Fe	981726.50	A	9391.00	0.96	0.9998
59 Co	109450.30	P	430.90	0.39	0.9900
60 Ni	31232.71	P	341.50	1.09	0.9999
63 Cu	84566.39	P	418.40	0.49	1.0000
65 Cu	41382.51	P	560.20	1.35	0.9999
66 Zn	9752.28	P	124.50	1.28	0.9842
72 Ge	177098.00	P	968.90	0.55	0.0000
72 Ge	13554.23	P	162.90	1.20	0.0000
72 Ge	267429.91	P	621.40	0.23	0.0000
75 As	5177.49	P	58.61	1.13	0.9999
78 Se	10361.51	P	107.80	1.04	1.0000
78 Se	280.00	P	11.41	4.07	0.9961
88 Sr	22032.08	P	162.10	0.74	0.9987
88 Sr	838789.69	P	7444.00	0.89	0.9997
95 Mo	144921.80	P	984.90	0.68	0.9999
106 (Cd)	7438.87	P	117.30	1.58	1.0000
107 Ag	189083.20	P	1878.00	0.99	0.9999
108 (Cd)	5374.54	P	65.69	1.22	1.0000
111 Cd	79459.08	P	460.00	0.58	0.9999
115 In	1435675.00	A	18520.00	1.29	0.0000
118 Sn	223766.50	P	1777.00	0.79	0.9995
121 Sb	262911.00	P	5553.00	2.11	0.9999
137 Ba	107800.10	P	619.50	0.57	1.0000
159 Tb	1740937.00	A	8296.00	0.48	0.0000
165 Ho	1696786.00	A	21550.00	1.27	0.0000
205 Tl	573408.13	P	3454.00	0.60	1.0000
206 (Pb)	195494.20	P	1080.00	0.55	0.9889
207 (Pb)	172807.70	P	1055.00	0.61	0.9860
208 Pb	787205.63	P	3813.00	0.48	0.9890

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1844698.60	0.22	1867730.90	98.8	70 -	120	
45 Sc	853502.69	4.64	860905.50	99.1	70 -	120	
45 Sc	30874.26	1.25	30466.40	101.3	70 -	120	
45 Sc	1522904.30	0.79	1514635.40	100.5	70 -	120	
72 Ge	177098.03	0.55	175233.81	101.1	70 -	120	
72 Ge	13554.23	1.20	13286.95	102.0	70 -	120	
72 Ge	267429.91	0.23	261657.25	102.2	70 -	120	
115 In	1435675.50	1.29	1427636.50	100.6	70 -	120	
159 Tb	1740936.90	0.48	1715789.30	101.5	70 -	120	
165 Ho	1696785.60	1.27	1678833.30	101.1	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\009CALS.D\009CALS.D#
Date Acquired: Apr 28 2011 12:56 pm
Operator: SDM
Sample Name: 110425 Standard 4
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 12:54 pm
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1809553.00	A	16560.00	0.92	0.0000
7 (Li)	116402.70	P	831.20	0.71	-0.8318
9 Be	635028.38	P	4347.00	0.68	1.0000
11 B	368789.31	P	1332.00	0.36	1.0000
23 Na	983259.88	A	9271.00	0.94	0.9999
24 Mg	899436.13	A	18180.00	2.02	1.0000
27 Al	124578.60	P	741.50	0.60	1.0000
39 K	207304.91	P	4028.00	1.94	1.0000
44 Ca	22864.75	P	263.10	1.15	1.0000
45 Sc	836857.13	M	35060.00	4.19	0.0000
45 Sc	31377.93	P	494.90	1.58	0.0000
45 Sc	1539542.00	A	3501.00	0.23	0.0000
47 Ti	3182.17	P	88.99	2.80	1.0000
51 V	105930.00	P	1668.00	1.57	1.0000
52 Cr	136257.09	P	911.10	0.67	1.0000
55 Mn	59292.66	P	945.60	1.59	1.0000
56 Fe	1965177.00	A	37790.00	1.92	1.0000
59 Co	217704.59	P	2762.00	1.27	1.0000
60 Ni	62586.68	P	271.60	0.43	1.0000
63 Cu	167787.50	P	2278.00	1.36	1.0000
65 Cu	81888.98	P	702.10	0.86	1.0000
66 Zn	19523.55	P	219.50	1.12	1.0000
72 Ge	177351.59	P	250.60	0.14	0.0000
72 Ge	13832.64	P	93.11	0.67	0.0000
72 Ge	267105.41	P	931.30	0.35	0.0000
75 As	10404.31	P	118.50	1.14	1.0000
78 Se	20739.46	P	129.80	0.63	1.0000
78 Se	555.35	P	16.00	2.88	1.0000
88 Sr	44093.45	P	538.90	1.22	1.0000
88 Sr	1569917.00	A	14970.00	0.95	1.0000
95 Mo	291063.91	P	4460.00	1.53	1.0000
106 (Cd)	14325.52	P	95.92	0.67	1.0000
107 Ag	376890.81	P	2807.00	0.74	1.0000
108 (Cd)	10795.59	P	60.82	0.56	1.0000
111 Cd	158157.41	P	1298.00	0.82	1.0000
115 In	1419224.00	A	21130.00	1.49	0.0000
118 Sn	443893.41	P	3817.00	0.86	1.0000
121 Sb	562587.31	P	4650.00	0.83	1.0000
137 Ba	213360.20	P	3751.00	1.76	1.0000
159 Tb	1756807.00	A	4937.00	0.28	0.0000
165 Ho	1723871.00	A	27070.00	1.57	0.0000
205 Tl	1081656.00	A	10920.00	1.01	1.0000
206 (Pb)	388542.41	P	5888.00	1.52	1.0000
207 (Pb)	343826.09	P	2987.00	0.87	1.0000
208 Pb	1559232.00	P	13260.00	0.85	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1809553.30	0.92	1867730.90	96.9	70 -	120	
45 Sc	836857.13	4.19	860905.50	97.2	70 -	120	
45 Sc	31377.93	1.58	30466.40	103.0	70 -	120	
45 Sc	1539542.10	0.23	1514635.40	101.6	70 -	120	
72 Ge	177351.59	0.14	175233.81	101.2	70 -	120	
72 Ge	13832.64	0.67	13286.95	104.1	70 -	120	
72 Ge	267105.34	0.35	261657.25	102.1	70 -	120	
115 In	1419224.10	1.49	1427636.50	99.4	70 -	120	
159 Tb	1756807.00	0.28	1715789.30	102.4	70 -	120	
165 Ho	1723870.80	1.57	1678833.30	102.7	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\010_QCS.D\010_QCS.D#
Date Acquired: Apr 28 2011 01:02 pm
Operator: SDM
Sample Name: ICV 110425
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: QCS
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range(%)		Flag
7 (Li)	--------	ug/l	--------	100.00	90 -	110	
9 Be	98.16	ug/l	0.96	100.00	90 -	110	
11 B	96.84	ug/l	0.82	100.00	90 -	110	
23 Na	2447.00	ug/l	0.40	2500.00	90 -	110	
24 Mg	2584.00	ug/l	0.42	2500.00	90 -	110	
27 Al	2444.00	ug/l	0.74	2500.00	90 -	110	
39 K	2439.00	ug/l	1.33	2500.00	90 -	110	
44 Ca	2645.00	ug/l	1.22	2500.00	90 -	110	
47 Ti	98.24	ug/l	1.65	100.00	90 -	110	
51 V	97.27	ug/l	1.50	100.00	90 -	110	
52 Cr	97.68	ug/l	0.79	100.00	90 -	110	
55 Mn	97.93	ug/l	0.80	100.00	90 -	110	
56 Fe	2450.00	ug/l	1.13	2500.00	90 -	110	
59 Co	97.94	ug/l	0.42	100.00	90 -	110	
60 Ni	98.08	ug/l	1.07	100.00	90 -	110	
63 Cu	98.08	ug/l	0.56	100.00	90 -	110	
65 Cu	97.33	ug/l	0.90	100.00	90 -	110	
66 Zn	96.86	ug/l	1.15	100.00	90 -	110	
75 As	95.09	ug/l	0.61	100.00	90 -	110	
78 Se	97.73	ug/l	1.45	100.00	90 -	110	
78 Se	95.88	ug/l	3.24	100.00	90 -	110	
88 Sr	96.24	ug/l	0.92	100.00	90 -	110	
88 Sr	97.06	ug/l	1.55	100.00	90 -	110	
95 Mo	99.32	ug/l	0.58	100.00	90 -	110	
106 (Cd)	--------	ug/l	--------	100.00	90 -	110	
107 Ag	48.66	ug/l	1.54	50.00	90 -	110	
108 (Cd)	--------	ug/l	--------	100.00	90 -	110	
111 Cd	98.03	ug/l	1.21	100.00	90 -	110	
118 Sn	49.39	ug/l	0.40	50.00	90 -	110	
121 Sb	109.10	ug/l	1.35	100.00	90 -	110	
137 Ba	97.62	ug/l	2.64	100.00	90 -	110	
205 Tl	102.50	ug/l	1.20	100.00	90 -	110	
206 (Pb)	--------	ug/l	--------	100.00	90 -	110	
207 (Pb)	--------	ug/l	--------	100.00	90 -	110	
208 Pb	99.03	ug/l	0.40	100.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1822003.30	1.00	1867730.90	97.6	70 -	120	
45 Sc	808500.25	1.41	860905.50	93.9	70 -	120	
45 Sc	31024.98	1.75	30466.40	101.8	70 -	120	
45 Sc	1515847.80	0.94	1514635.40	100.1	70 -	120	
72 Ge	177232.61	0.60	175233.81	101.1	70 -	120	
72 Ge	13746.27	1.23	13286.95	103.5	70 -	120	
72 Ge	264766.00	0.30	261657.25	101.2	70 -	120	
115 In	1416083.00	1.15	1427636.50	99.2	70 -	120	
159 Tb	1743101.60	0.66	1715789.30	101.6	70 -	120	
165 Ho	1712572.80	0.85	1678833.30	102.0	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\014_CCV.D\014_CCV.D#
Date Acquired: Apr 28 2011 01:27 pm
Operator: SDM
Sample Name: CCV 110425
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range(%)	Flag
7 (Li)	--------	ug/l	--------	50.00	90 - 110	
9 Be	49.87	ug/l	0.94	50.00	90 - 110	
11 B	49.21	ug/l	1.99	50.00	90 - 110	
23 Na	1236.00	ug/l	0.54	1250.00	90 - 110	
24 Mg	2601.00	ug/l	0.39	2500.00	90 - 110	
27 Al	1007.00	ug/l	0.88	1000.00	90 - 110	
39 K	1002.00	ug/l	0.64	1000.00	90 - 110	
44 Ca	2489.00	ug/l	2.16	2500.00	90 - 110	
47 Ti	50.08	ug/l	0.52	50.00	90 - 110	
51 V	49.07	ug/l	0.98	50.00	90 - 110	
52 Cr	49.78	ug/l	0.36	50.00	90 - 110	
55 Mn	49.69	ug/l	1.03	50.00	90 - 110	
56 Fe	994.10	ug/l	1.30	1000.00	90 - 110	
59 Co	49.30	ug/l	0.32	50.00	90 - 110	
60 Ni	50.06	ug/l	0.63	50.00	90 - 110	
63 Cu	49.96	ug/l	0.09	50.00	90 - 110	
65 Cu	49.57	ug/l	0.41	50.00	90 - 110	
66 Zn	49.35	ug/l	2.28	50.00	90 - 110	
75 As	49.78	ug/l	0.86	50.00	90 - 110	
78 Se	50.20	ug/l	2.73	50.00	90 - 110	
78 Se	50.80	ug/l	2.40	50.00	90 - 110	
88 Sr	49.55	ug/l	2.65	50.00	90 - 110	
88 Sr	52.39	ug/l	0.85	50.00	90 - 110	
95 Mo	49.94	ug/l	1.78	50.00	90 - 110	
106 (Cd)	--------	ug/l	--------	50.00	90 - 110	
107 Ag	24.48	ug/l	0.14	25.00	90 - 110	
108 (Cd)	--------	ug/l	--------	50.00	90 - 110	
111 Cd	49.84	ug/l	0.32	50.00	90 - 110	
118 Sn	49.58	ug/l	0.96	50.00	90 - 110	
121 Sb	47.50	ug/l	1.37	50.00	90 - 110	
137 Ba	49.40	ug/l	0.51	50.00	90 - 110	
205 Tl	52.61	ug/l	1.16	50.00	90 - 110	
206 (Pb)	--------	ug/l	--------	50.00	90 - 110	
207 (Pb)	--------	ug/l	--------	50.00	90 - 110	
208 Pb	50.47	ug/l	1.38	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1853653.10	0.41	1867730.90	99.2	70 - 120	
45 Sc	834975.19	6.03	860905.50	97.0	70 - 120	
45 Sc	31869.01	1.31	30466.40	104.6	70 - 120	
45 Sc	1541665.60	1.20	1514635.40	101.8	70 - 120	
72 Ge	175149.42	3.52	175233.81	100.0	70 - 120	
72 Ge	13957.60	0.93	13286.95	105.0	70 - 120	
72 Ge	269778.50	0.64	261657.25	103.1	70 - 120	
115 In	1449270.90	0.54	1427636.50	101.5	70 - 120	
159 Tb	1770128.60	0.95	1715789.30	103.2	70 - 120	
165 Ho	1737142.10	0.19	1678833.30	103.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\018_CCB.D\018_CCB.D#
Date Acquired: Apr 28 2011 01:51 pm
Operator: SDM
Sample Name: ICB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	#VALUE!	
9 Be	-0.15	ug/l	1.38	0.12	
11 B	-0.12	ug/l	9.86	15.00	
23 Na	-37.75	ug/l	2.29	77.10	
24 Mg	-1.44	ug/l	4.71	7.50	
27 Al	-1.02	ug/l	14.69	3.96	
39 K	-17.41	ug/l	24.57	19.20	
44 Ca	-12.21	ug/l	23.01	90.00	
47 Ti	-0.03	ug/l	76.12	0.78	
51 V	-0.11	ug/l	2.57	0.21	
52 Cr	-0.02	ug/l	19.77	0.12	
55 Mn	-0.02	ug/l	44.65	0.18	
56 Fe	-5.00	ug/l	0.87	40.80	
59 Co	-0.21	ug/l	3.52	0.09	
60 Ni	-0.02	ug/l	36.40	0.48	
63 Cu	-0.09	ug/l	6.43	0.39	
65 Cu	-0.11	ug/l	5.29	0.39	
66 Zn	-0.24	ug/l	6.81	6.90	
75 As	-0.02	ug/l	15.60	0.27	
78 Se	-0.02	ug/l	31.27	0.30	
78 Se	-0.23	ug/l	36.24	0.30	
88 Sr	-0.02	ug/l	156.76	0.03	
88 Sr	-0.02	ug/l	9.01	0.03	
95 Mo	0.00	ug/l	307.05	0.21	
106 (Cd)	--------	ug/l	--------	#VALUE!	
107 Ag	0.00	ug/l	55550.00	0.09	
108 (Cd)	--------	ug/l	--------	#VALUE!	
111 Cd	-0.01	ug/l	59.71	0.06	
118 Sn	-0.24	ug/l	3.03	0.30	
121 Sb	0.00	ug/l	296.99	0.03	
137 Ba	-0.02	ug/l	9.70	0.12	
205 Tl	0.00	ug/l	63.07	0.03	
206 (Pb)	--------	ug/l	--------	#VALUE!	
207 (Pb)	--------	ug/l	--------	#VALUE!	
208 Pb	-0.23	ug/l	1.99	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1608253.60	1.03	1867730.90	86.1	70 - 120	
45 Sc	841190.69	0.30	860905.50	97.7	70 - 120	
45 Sc	32932.06	0.61	30466.40	108.1	70 - 120	
45 Sc	1518274.10	4.26	1514635.40	100.2	70 - 120	
72 Ge	176629.92	0.79	175233.81	100.8	70 - 120	
72 Ge	14494.04	1.66	13286.95	109.1	70 - 120	
72 Ge	268766.75	2.45	261657.25	102.7	70 - 120	
115 In	1483253.90	2.35	1427636.50	103.9	70 - 120	
159 Tb	1801357.80	4.43	1715789.30	105.0	70 - 120	
165 Ho	1755795.50	4.45	1678833.30	104.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\019_CCB.D\019_CCB.D#
Date Acquired: Apr 28 2011 01:57 pm
Operator: SDM
Sample Name: CCB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	--------	#VALUE!	
9 Be	-0.15	ug/l	1.64	0.12	
11 B	-0.14	ug/l	37.61	15.00	
23 Na	-38.54	ug/l	12.72	77.10	
24 Mg	-2.00	ug/l	5.02	7.50	
27 Al	-0.99	ug/l	30.92	3.96	
39 K	-17.34	ug/l	112.46	19.20	
44 Ca	-11.76	ug/l	30.75	90.00	
47 Ti	-0.01	ug/l	175.64	0.78	
51 V	-0.11	ug/l	2.96	0.21	
52 Cr	-0.03	ug/l	14.53	0.12	
55 Mn	-0.04	ug/l	20.43	0.18	
56 Fe	-5.04	ug/l	0.38	40.80	
59 Co	-0.21	ug/l	2.26	0.09	
60 Ni	-0.03	ug/l	14.11	0.48	
63 Cu	-0.10	ug/l	4.49	0.39	
65 Cu	-0.11	ug/l	3.84	0.39	
66 Zn	-0.18	ug/l	6.84	6.90	
75 As	-0.02	ug/l	90.97	0.27	
78 Se	-0.02	ug/l	94.02	0.30	
78 Se	-0.11	ug/l	42.71	0.30	
88 Sr	-0.02	ug/l	8.55	0.03	
88 Sr	-0.02	ug/l	10.19	0.03	
95 Mo	-0.01	ug/l	73.64	0.21	
106 (Cd)	--------	ug/l	--------	#VALUE!	
107 Ag	0.01	ug/l	61.53	0.09	
108 (Cd)	--------	ug/l	--------	#VALUE!	
111 Cd	0.00	ug/l	344.73	0.06	
118 Sn	-0.23	ug/l	9.64	0.30	
121 Sb	-0.02	ug/l	67.36	0.03	
137 Ba	-0.03	ug/l	9.68	0.12	
205 Tl	0.00	ug/l	12.91	0.03	
206 (Pb)	--------	ug/l	--------	#VALUE!	
207 (Pb)	--------	ug/l	--------	#VALUE!	
208 Pb	-0.22	ug/l	0.40	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1563789.80	0.79	1867730.90	83.7	70 - 120	
45 Sc	836139.25	0.84	860905.50	97.1	70 - 120	
45 Sc	33143.62	16.12	30466.40	108.8	70 - 120	
45 Sc	1456609.80	1.41	1514635.40	96.2	70 - 120	
72 Ge	176026.53	0.64	175233.81	100.5	70 - 120	
72 Ge	14542.78	10.82	13286.95	109.5	70 - 120	
72 Ge	264209.25	1.08	261657.25	101.0	70 - 120	
115 In	1441067.30	1.25	1427636.50	100.9	70 - 120	
159 Tb	1753935.50	1.19	1715789.30	102.2	70 - 120	
165 Ho	1703866.10	0.83	1678833.30	101.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\020SMPL.D\020SMPL.D#
Date Acquired: Apr 28 2011 02:03 pm
Operator: SDM
Sample Name: LDR 110425
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
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	868.20	ug/l	868.20	1.04	1000	
11 B	929.70	ug/l	929.70	0.33	1000	
23 Na	22580.00	ug/l	22580.00	2.12	25000	
24 Mg	44430.00	ug/l	44430.00	1.20	50000	
27 Al	18160.00	ug/l	18160.00	0.88	20000	
39 K	18060.00	ug/l	18060.00	0.81	20000	
44 Ca	48030.00	ug/l	48030.00	0.87	50000	
47 Ti	969.10	ug/l	969.10	0.24	1000	
51 V	895.60	ug/l	895.60	1.27	1000	
52 Cr	886.20	ug/l	886.20	0.34	1000	
55 Mn	945.10	ug/l	945.10	0.86	1000	
56 Fe	18240.00	ug/l	18240.00	0.79	20000	
59 Co	865.20	ug/l	865.20	0.76	1000	
60 Ni	899.60	ug/l	899.60	1.11	1000	
63 Cu	848.80	ug/l	848.80	1.44	1000	
65 Cu	906.90	ug/l	906.90	2.32	1000	
66 Zn	913.90	ug/l	913.90	2.45	1000	
75 As	965.60	ug/l	965.60	1.67	1000	
78 Se	955.70	ug/l	955.70	1.05	1000	
78 Se	970.30	ug/l	970.30	1.94	1000	
88 Sr	987.50	ug/l	987.50	2.37	1000	
88 Sr	932.80	ug/l	932.80	1.03	1000	
95 Mo	941.00	ug/l	941.00	0.39	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	404.40	ug/l	404.40	2.34	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	898.10	ug/l	898.10	0.22	1000	
118 Sn	924.00	ug/l	924.00	0.50	1000	
121 Sb	957.60	ug/l	957.60	0.29	1000	
137 Ba	938.70	ug/l	938.70	0.67	1000	
205 Tl	908.00	ug/l	908.00	0.46	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	866.20	ug/l	866.20	0.53	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1605875.50	0.44	1867730.90	86.0	70 - 120	
45 Sc	830994.19	0.78	860905.50	96.5	70 - 120	
45 Sc	30284.25	2.13	30466.40	99.4	70 - 120	
45 Sc	1429128.30	0.36	1514635.40	94.4	70 - 120	
72 Ge	168764.77	0.84	175233.81	96.3	70 - 120	
72 Ge	13256.94	3.24	13286.95	99.8	70 - 120	
72 Ge	252567.30	0.18	261657.25	96.5	70 - 120	
115 In	1341813.40	0.19	1427636.50	94.0	70 - 120	
159 Tb	1712193.00	0.56	1715789.30	99.8	70 - 120	
165 Ho	1683019.60	0.81	1678833.30	100.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\022SMPL.D\022SMPL.D#
Date Acquired: Apr 28 2011 02:15 pm
Operator: SDM
Sample Name: ICSA 110425
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
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	-0.13	ug/l	-0.13	4.39	1000	
11 B	3.97	ug/l	3.97	0.88	1000	
23 Na	88030.00	ug/l	88030.00	1.13	25000	>Cal
24 Mg	86490.00	ug/l	86490.00	0.58	50000	>Cal
27 Al	83310.00	ug/l	83310.00	1.07	20000	>Cal
39 K	83170.00	ug/l	83170.00	1.09	20000	>Cal
44 Ca	89240.00	ug/l	89240.00	1.58	50000	>Cal
47 Ti	1870.00	ug/l	1870.00	0.71	1000	>Cal
51 V	0.31	ug/l	0.31	15.08	1000	
52 Cr	0.64	ug/l	0.64	6.70	1000	
55 Mn	5.22	ug/l	5.22	3.97	1000	
56 Fe	87090.00	ug/l	87090.00	0.98	20000	>Cal
59 Co	1.14	ug/l	1.14	2.66	1000	
60 Ni	1.19	ug/l	1.19	2.50	1000	
63 Cu	1.64	ug/l	1.64	4.08	1000	
65 Cu	1.59	ug/l	1.59	4.05	1000	
66 Zn	1.65	ug/l	1.65	12.35	1000	
75 As	0.86	ug/l	0.86	6.94	1000	
78 Se	0.52	ug/l	0.52	11.92	1000	
78 Se	0.95	ug/l	0.95	78.11	1000	
88 Sr	1.16	ug/l	1.16	14.98	1000	
88 Sr	1.17	ug/l	1.17	0.51	1000	
95 Mo	1793.00	ug/l	1793.00	0.78	1000	>Cal
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	0.17	ug/l	0.17	13.65	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	0.33	ug/l	0.33	33.87	1000	
118 Sn	1.92	ug/l	1.92	4.00	1000	
121 Sb	4.31	ug/l	4.31	2.93	1000	
137 Ba	2.75	ug/l	2.75	1.38	1000	
205 Tl	0.48	ug/l	0.48	1.79	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	3.11	ug/l	3.11	1.95	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1725629.80	1.17	1867730.90	92.4	70 - 120	
45 Sc	828310.38	0.16	860905.50	96.2	70 - 120	
45 Sc	30175.11	1.78	30466.40	99.0	70 - 120	
45 Sc	1463943.40	0.46	1514635.40	96.7	70 - 120	
72 Ge	167660.22	0.39	175233.81	95.7	70 - 120	
72 Ge	13246.19	2.75	13286.95	99.7	70 - 120	
72 Ge	263595.50	0.42	261657.25	100.7	70 - 120	
115 In	1347400.60	0.22	1427636.50	94.4	70 - 120	
159 Tb	1751534.10	1.22	1715789.30	102.1	70 - 120	
165 Ho	1710337.60	1.55	1678833.30	101.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\023ICSB.D\023ICSB.D#
Date Acquired: Apr 28 2011 02:21 pm
Acq. Method: 62A0428.M
Operator: SDM
Sample Name: ICSAB 110425
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal. Update: Apr 28 2011 01:00 pm
Sample Type: ICSAB
Dilution Factor: 1.00

Data Results:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
7 (Li)	---	3	--------	--------	---		-	
9 Be	4S	3	253.00	0.17	250	101.2	80 - 120	
11 B	4S	3	3.22	2.31	---		-	
23 Na	4S	2	93190.00	1.73	---		-	
24 Mg	4S	2	90340.00	1.38	---		-	
27 Al	4S	2	84200.00	0.57	---		-	
39 K	4S	2	85570.00	0.45	---		-	
44 Ca	4S	2	90090.00	0.63	---		-	
47 Ti	4S	2	1907.00	0.93	2000	95.4	80 - 120	
51 V	4S	2	268.00	0.83	250	107.2	80 - 120	
52 Cr	4S	2	255.30	1.29	250	102.1	80 - 120	
55 Mn	4S	2	254.70	1.13	250	101.9	80 - 120	
56 Fe	4S	2	88540.00	0.34	---		-	
59 Co	4S	2	251.60	0.61	250	100.6	80 - 120	
60 Ni	4S	2	490.80	1.42	500	98.2	80 - 120	
63 Cu	72	2	238.00	0.96	250	95.2	80 - 120	
65 Cu	72	2	237.80	0.41	250	95.1	80 - 120	
66 Zn	72	2	455.90	0.70	500	91.2	80 - 120	
75 As	72	2	263.40	1.12	250	105.4	80 - 120	
78 Se	72	1	266.40	0.52	250	106.6	80 - 120	
78 Se	72	2	252.60	0.78	250	101.0	80 - 120	
88 Sr	72	2	1.08	14.74	---		-	
88 Sr	72	3	1.22	0.40	---		-	
95 Mo	72	3	2056.00	1.14	2000	102.8	80 - 120	
106 (Cd)	---	3	--------	--------	---		-	
107 Ag	115	3	403.50	3.52	500	80.7	80 - 120	
108 (Cd)	---	3	--------	--------	---		-	
111 Cd	115	3	507.60	1.80	500	101.5	80 - 120	
118 Sn	115	3	0.98	4.15	---		-	
121 Sb	115	3	264.10	0.35	250	105.6	80 - 120	
137 Ba	115	3	275.10	1.16	250	110.0	80 - 120	
205 Tl	159	3	245.00	0.74	250	98.0	80 - 120	
206 (Pb)	---	3	--------	--------	---		-	
207 (Pb)	---	3	--------	--------	---		-	
208 Pb	159	3	462.60	0.74	500	92.5	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1924300	1.77	1867731	103.0	70 - 120	
45 Sc	1	836534	4.58	860906	97.2	70 - 120	
45 Sc	2	29314	2.56	30466	96.2	70 - 120	
45 Sc	3	1487366	0.30	1514635	98.2	70 - 120	
72 Ge	1	177702	0.84	175234	101.4	70 - 120	
72 Ge	2	13235	1.56	13287	99.6	70 - 120	
72 Ge	3	263948	0.78	261657	100.9	70 - 120	
115 In	3	1370432	0.96	1427637	96.0	70 - 120	
159 Tb	3	1779579	0.29	1715789	103.7	70 - 120	
165 Ho	3	1754687	1.16	1678833	104.5	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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\11D28m00.B\025_CCV.D\025_CCV.D#
Date Acquired: Apr 28 2011 02:33 pm
Operator: SDM
Sample Name: CCV 110425
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected	QC Range(%)	Flag
7 (Li)	-------- ug/l	--------	50.00	90 - 110	
9 Be	53.92 ug/l	0.85	50.00	90 - 110	
11 B	54.87 ug/l	0.19	50.00	90 - 110	
23 Na	1294.00 ug/l	0.63	1250.00	90 - 110	
24 Mg	2604.00 ug/l	0.84	2500.00	90 - 110	
27 Al	951.20 ug/l	0.95	1000.00	90 - 110	
39 K	997.80 ug/l	0.86	1000.00	90 - 110	
44 Ca	2368.00 ug/l	1.01	2500.00	90 - 110	
47 Ti	49.44 ug/l	1.61	50.00	90 - 110	
51 V	51.29 ug/l	0.41	50.00	90 - 110	
52 Cr	50.98 ug/l	1.22	50.00	90 - 110	
55 Mn	48.59 ug/l	0.98	50.00	90 - 110	
56 Fe	1007.00 ug/l	4.18	1000.00	90 - 110	
59 Co	51.23 ug/l	1.69	50.00	90 - 110	
60 Ni	50.97 ug/l	0.74	50.00	90 - 110	
63 Cu	49.50 ug/l	0.70	50.00	90 - 110	
65 Cu	49.54 ug/l	0.59	50.00	90 - 110	
66 Zn	48.30 ug/l	1.49	50.00	90 - 110	
75 As	49.56 ug/l	1.49	50.00	90 - 110	
78 Se	50.01 ug/l	0.70	50.00	90 - 110	
78 Se	47.85 ug/l	0.87	50.00	90 - 110	
88 Sr	48.79 ug/l	1.10	50.00	90 - 110	
88 Sr	53.57 ug/l	0.48	50.00	90 - 110	
95 Mo	51.26 ug/l	1.39	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	24.01 ug/l	2.16	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	49.14 ug/l	0.90	50.00	90 - 110	
118 Sn	50.02 ug/l	1.89	50.00	90 - 110	
121 Sb	51.08 ug/l	0.67	50.00	90 - 110	
137 Ba	49.06 ug/l	1.39	50.00	90 - 110	
205 Tl	51.15 ug/l	1.09	50.00	90 - 110	
206 (Pb)	-------- ug/l	--------	50.00	90 - 110	
207 (Pb)	-------- ug/l	--------	50.00	90 - 110	
208 Pb	49.15 ug/l	0.90	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2318800.00	1.59	1867730.90	124.2	70 - 120	IS Fail
45 Sc	858260.56	0.52	860905.50	99.7	70 - 120	
45 Sc	30708.43	2.27	30466.40	100.8	70 - 120	
45 Sc	1587232.10	1.17	1514635.40	104.8	70 - 120	
72 Ge	193837.09	0.60	175233.81	110.6	70 - 120	
72 Ge	13962.40	0.88	13286.95	105.1	70 - 120	
72 Ge	275558.69	1.09	261657.25	105.3	70 - 120	
115 In	1528152.90	1.79	1427636.50	107.0	70 - 120	
159 Tb	1883042.90	1.12	1715789.30	109.7	70 - 120	
165 Ho	1832350.30	1.04	1678833.30	109.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\029_CCB.D\029_CCB.D#
Date Acquired: Apr 28 2011 02:57 pm
Operator: SDM
Sample Name: CCB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.15 ug/l	1.60	0.12	
11 B	0.25 ug/l	6.68	15.00	
23 Na	-33.99 ug/l	0.40	77.10	
24 Mg	-1.30 ug/l	17.59	7.50	
27 Al	-0.48 ug/l	51.69	3.96	
39 K	-17.37 ug/l	47.53	19.20	
44 Ca	-14.41 ug/l	27.22	90.00	
47 Ti	0.04 ug/l	111.44	0.78	
51 V	-0.10 ug/l	12.10	0.21	
52 Cr	-0.02 ug/l	20.68	0.12	
55 Mn	-0.02 ug/l	56.27	0.18	
56 Fe	-4.95 ug/l	0.79	40.80	
59 Co	-0.22 ug/l	0.82	0.09	
60 Ni	-0.02 ug/l	77.86	0.48	
63 Cu	-0.09 ug/l	2.89	0.39	
65 Cu	-0.09 ug/l	17.20	0.39	
66 Zn	-0.15 ug/l	49.69	6.90	
75 As	0.00 ug/l	733.43	0.27	
78 Se	-0.01 ug/l	160.36	0.30	
78 Se	0.04 ug/l	156.47	0.30	
88 Sr	0.00 ug/l	3200.40	0.03	
88 Sr	-0.02 ug/l	27.25	0.03	
95 Mo	0.17 ug/l	10.41	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	353.33	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.01 ug/l	67.52	0.06	
118 Sn	-0.21 ug/l	1.34	0.30	
121 Sb	0.10 ug/l	17.46	0.03	Fail
137 Ba	-0.02 ug/l	36.96	0.12	
205 Tl	0.01 ug/l	89.51	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.23 ug/l	1.25	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2037269.50	0.88	1867730.90	109.1	70 - 120	
45 Sc	837163.00	0.96	860905.50	97.2	70 - 120	
45 Sc	32459.60	2.91	30466.40	106.5	70 - 120	
45 Sc	1574173.10	1.96	1514635.40	103.9	70 - 120	
72 Ge	194091.81	0.29	175233.81	110.8	70 - 120	
72 Ge	14883.35	0.95	13286.95	112.0	70 - 120	
72 Ge	283621.69	1.69	261657.25	108.4	70 - 120	
115 In	1546262.80	1.29	1427636.50	108.3	70 - 120	
159 Tb	1875744.80	1.30	1715789.30	109.3	70 - 120	
165 Ho	1831819.60	1.82	1678833.30	109.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\041_CCV.D\041_CCV.D#
Date Acquired: Apr 28 2011 04:10 pm
Operator: SDM
Sample Name: CCV 110425
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range(%)		Flag
7 (Li)	--------	ug/l	--------	50.00	90 -	110	
9 Be	51.11	ug/l	0.92	50.00	90 -	110	
11 B	51.69	ug/l	0.57	50.00	90 -	110	
23 Na	1242.00	ug/l	4.51	1250.00	90 -	110	
24 Mg	2566.00	ug/l	4.30	2500.00	90 -	110	
27 Al	973.40	ug/l	5.73	1000.00	90 -	110	
39 K	982.00	ug/l	5.36	1000.00	90 -	110	
44 Ca	2429.00	ug/l	6.41	2500.00	90 -	110	
47 Ti	47.04	ug/l	5.44	50.00	90 -	110	
51 V	50.48	ug/l	4.62	50.00	90 -	110	
52 Cr	48.81	ug/l	4.46	50.00	90 -	110	
55 Mn	48.53	ug/l	4.08	50.00	90 -	110	
56 Fe	961.40	ug/l	4.47	1000.00	90 -	110	
59 Co	49.19	ug/l	4.73	50.00	90 -	110	
60 Ni	48.65	ug/l	4.94	50.00	90 -	110	
63 Cu	47.43	ug/l	3.98	50.00	90 -	110	
65 Cu	47.69	ug/l	3.37	50.00	90 -	110	
66 Zn	47.03	ug/l	3.65	50.00	90 -	110	
75 As	48.06	ug/l	3.20	50.00	90 -	110	
78 Se	47.25	ug/l	0.82	50.00	90 -	110	
78 Se	48.54	ug/l	3.60	50.00	90 -	110	
88 Sr	48.20	ug/l	3.64	50.00	90 -	110	
88 Sr	51.27	ug/l	0.22	50.00	90 -	110	
95 Mo	47.84	ug/l	0.98	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	24.00	ug/l	0.62	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	48.36	ug/l	0.93	50.00	90 -	110	
118 Sn	49.67	ug/l	0.08	50.00	90 -	110	
121 Sb	47.63	ug/l	0.60	50.00	90 -	110	
137 Ba	49.21	ug/l	1.02	50.00	90 -	110	
205 Tl	51.33	ug/l	0.73	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	49.06	ug/l	0.15	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	2062171.00	0.72	1867730.90	110.4	70 -	120	
45 Sc	854540.69	1.05	860905.50	99.3	70 -	120	
45 Sc	32002.69	3.83	30466.40	105.0	70 -	120	
45 Sc	1548905.50	1.17	1514635.40	102.3	70 -	120	
72 Ge	192193.67	0.31	175233.81	109.7	70 -	120	
72 Ge	14402.48	2.86	13286.95	108.4	70 -	120	
72 Ge	279071.22	0.87	261657.25	106.7	70 -	120	
115 In	1486651.90	0.83	1427636.50	104.1	70 -	120	
159 Tb	1827605.40	0.32	1715789.30	106.5	70 -	120	
165 Ho	1787204.90	1.52	1678833.30	106.5	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\043_CCB.D\043_CCB.D#
Date Acquired: Apr 28 2011 04:22 pm
Operator: SDM
Sample Name: CCB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.15 ug/l	1.13	0.12	
11 B	0.26 ug/l	8.92	15.00	
23 Na	-29.09 ug/l	1.28	77.10	
24 Mg	-1.46 ug/l	2.71	7.50	
27 Al	-0.78 ug/l	21.24	3.96	
39 K	-17.78 ug/l	20.92	19.20	
44 Ca	-14.45 ug/l	3.05	90.00	
47 Ti	-0.01 ug/l	7.59	0.78	
51 V	-0.07 ug/l	7.04	0.21	
52 Cr	-0.02 ug/l	24.56	0.12	
55 Mn	0.00 ug/l	102.33	0.18	
56 Fe	-4.93 ug/l	0.48	40.80	
59 Co	-0.23 ug/l	0.45	0.09	
60 Ni	-0.02 ug/l	41.18	0.48	
63 Cu	-0.10 ug/l	4.97	0.39	
65 Cu	-0.10 ug/l	8.90	0.39	
66 Zn	-0.14 ug/l	106.79	6.90	
75 As	0.01 ug/l	266.61	0.27	
78 Se	0.01 ug/l	315.17	0.30	
78 Se	-0.06 ug/l	384.86	0.30	
88 Sr	-0.02 ug/l	119.64	0.03	
88 Sr	-0.02 ug/l	10.91	0.03	
95 Mo	0.08 ug/l	34.54	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	186.00	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.00 ug/l	698.84	0.06	
118 Sn	-0.23 ug/l	2.68	0.30	
121 Sb	0.08 ug/l	12.34	0.03	Fail
137 Ba	-0.01 ug/l	44.94	0.12	
205 Tl	0.04 ug/l	9.26	0.03	Fail
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.23 ug/l	0.90	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1692319.60	1.15	1867730.90	90.6	70 - 120	
45 Sc	832806.44	1.23	860905.50	96.7	70 - 120	
45 Sc	34236.54	1.00	30466.40	112.4	70 - 120	
45 Sc	1508268.80	0.47	1514635.40	99.6	70 - 120	
72 Ge	189736.56	0.88	175233.81	108.3	70 - 120	
72 Ge	15320.47	0.78	13286.95	115.3	70 - 120	
72 Ge	274721.84	0.47	261657.25	105.0	70 - 120	
115 In	1495613.00	0.92	1427636.50	104.8	70 - 120	
159 Tb	1803709.90	0.79	1715789.30	105.1	70 - 120	
165 Ho	1754829.60	1.45	1678833.30	104.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\055_CCV.D\055_CCV.D#
Date Acquired: Apr 28 2011 05:35 pm
Operator: SDM
Sample Name: CCV 110425
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected	QC Range (%)		Flag
7 (Li)	--------	ug/l	--------	50.00	90 -	110	
9 Be	46.86	ug/l	1.14	50.00	90 -	110	
11 B	51.50	ug/l	0.41	50.00	90 -	110	
23 Na	1381.00	ug/l	0.79	1250.00	90 -	110	Fail
24 Mg	2529.00	ug/l	0.84	2500.00	90 -	110	
27 Al	961.40	ug/l	1.76	1000.00	90 -	110	
39 K	997.20	ug/l	0.84	1000.00	90 -	110	
44 Ca	2438.00	ug/l	0.55	2500.00	90 -	110	
47 Ti	46.35	ug/l	5.09	50.00	90 -	110	
51 V	50.74	ug/l	1.57	50.00	90 -	110	
52 Cr	48.44	ug/l	0.28	50.00	90 -	110	
55 Mn	48.73	ug/l	0.88	50.00	90 -	110	
56 Fe	929.00	ug/l	1.10	1000.00	90 -	110	
59 Co	49.41	ug/l	0.92	50.00	90 -	110	
60 Ni	48.73	ug/l	0.69	50.00	90 -	110	
63 Cu	46.04	ug/l	0.37	50.00	90 -	110	
65 Cu	45.61	ug/l	0.71	50.00	90 -	110	
66 Zn	45.36	ug/l	0.76	50.00	90 -	110	
75 As	47.40	ug/l	0.80	50.00	90 -	110	
78 Se	46.09	ug/l	0.29	50.00	90 -	110	
78 Se	46.30	ug/l	3.90	50.00	90 -	110	
88 Sr	48.72	ug/l	1.08	50.00	90 -	110	
88 Sr	51.06	ug/l	0.32	50.00	90 -	110	
95 Mo	47.55	ug/l	0.52	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	23.96	ug/l	0.44	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	47.69	ug/l	0.23	50.00	90 -	110	
118 Sn	49.39	ug/l	0.70	50.00	90 -	110	
121 Sb	46.94	ug/l	0.29	50.00	90 -	110	
137 Ba	49.36	ug/l	1.00	50.00	90 -	110	
205 Tl	51.26	ug/l	0.78	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	49.20	ug/l	0.29	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range (%)		Flag
6 Li	1852225.30	1.34	1867730.90	99.2	70 -	120	
45 Sc	868579.25	0.58	860905.50	100.9	70 -	120	
45 Sc	32206.48	0.20	30466.40	105.7	70 -	120	
45 Sc	1521036.80	0.46	1514635.40	100.4	70 -	120	
72 Ge	199557.98	0.58	175233.81	113.9	70 -	120	
72 Ge	14948.60	0.75	13286.95	112.5	70 -	120	
72 Ge	284713.44	0.19	261657.25	108.8	70 -	120	
115 In	1514056.80	0.34	1427636.50	106.1	70 -	120	
159 Tb	1827476.10	0.37	1715789.30	106.5	70 -	120	
165 Ho	1789970.50	0.45	1678833.30	106.6	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\057_CCB.D\057_CCB.D#
Date Acquired: Apr 28 2011 05:47 pm
Operator: SDM
Sample Name: CCB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.14 ug/l	0.35	0.12	
11 B	3.22 ug/l	2.35	15.00	
23 Na	79.85 ug/l	2.84	77.10	Fail
24 Mg	-0.08 ug/l	130.62	7.50	
27 Al	-1.08 ug/l	4.80	3.96	
39 K	-7.23 ug/l	100.82	19.20	
44 Ca	-16.95 ug/l	5.47	90.00	
47 Ti	-0.02 ug/l	122.75	0.78	
51 V	-0.03 ug/l	36.28	0.21	
52 Cr	-0.02 ug/l	32.63	0.12	
55 Mn	-0.02 ug/l	81.71	0.18	
56 Fe	-4.89 ug/l	0.28	40.80	
59 Co	-0.23 ug/l	0.53	0.09	
60 Ni	-0.02 ug/l	52.25	0.48	
63 Cu	-0.06 ug/l	20.54	0.39	
65 Cu	-0.07 ug/l	11.46	0.39	
66 Zn	-0.16 ug/l	47.96	6.90	
75 As	-0.02 ug/l	68.80	0.27	
78 Se	0.02 ug/l	84.33	0.30	
78 Se	-0.05 ug/l	256.62	0.30	
88 Sr	0.00 ug/l	1700.50	0.03	
88 Sr	-0.02 ug/l	24.63	0.03	
95 Mo	0.10 ug/l	13.26	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	150.31	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.00 ug/l	360.74	0.06	
118 Sn	-0.22 ug/l	9.49	0.30	
121 Sb	0.12 ug/l	11.93	0.03	Fail
137 Ba	-0.02 ug/l	12.51	0.12	
205 Tl	0.04 ug/l	6.50	0.03	Fail
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.23 ug/l	1.59	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1789004.80	1.00	1867730.90	95.8	70 - 120	
45 Sc	870533.50	0.84	860905.50	101.1	70 - 120	
45 Sc	34239.51	1.74	30466.40	112.4	70 - 120	
45 Sc	1573241.90	1.51	1514635.40	103.9	70 - 120	
72 Ge	199947.42	0.09	175233.81	114.1	70 - 120	
72 Ge	16098.34	1.10	13286.95	121.2	70 - 120	IS Fail
72 Ge	289963.78	1.19	261657.25	110.8	70 - 120	
115 In	1573710.10	1.37	1427636.50	110.2	70 - 120	
159 Tb	1863987.10	0.63	1715789.30	108.6	70 - 120	
165 Ho	1814047.90	0.51	1678833.30	108.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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\11D28m00.B\069_CCV.D\069_CCV.D#
Date Acquired: Apr 28 2011 06:59 pm
Operator: SDM
Sample Name: CCV 110425
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Elements

Element	Conc.		RSD(%)	Expected QC	Range(%)	Flag
7 (Li)	--------	ug/l	--------	50.00	90 - 110	
9 Be	46.33	ug/l	0.58	50.00	90 - 110	
11 B	47.87	ug/l	0.43	50.00	90 - 110	
23 Na	1240.00	ug/l	1.86	1250.00	90 - 110	
24 Mg	2483.00	ug/l	1.83	2500.00	90 - 110	
27 Al	951.50	ug/l	1.88	1000.00	90 - 110	
39 K	993.00	ug/l	1.68	1000.00	90 - 110	
44 Ca	2375.00	ug/l	1.11	2500.00	90 - 110	
47 Ti	49.86	ug/l	1.42	50.00	90 - 110	
51 V	49.89	ug/l	1.21	50.00	90 - 110	
52 Cr	48.14	ug/l	1.18	50.00	90 - 110	
55 Mn	47.54	ug/l	1.20	50.00	90 - 110	
56 Fe	907.80	ug/l	1.76	1000.00	90 - 110	
59 Co	48.42	ug/l	1.84	50.00	90 - 110	
60 Ni	47.44	ug/l	1.50	50.00	90 - 110	
63 Cu	44.92	ug/l	0.70	50.00	90 - 110	Fail
65 Cu	44.65	ug/l	1.31	50.00	90 - 110	Fail
66 Zn	44.82	ug/l	1.17	50.00	90 - 110	Fail
75 As	46.70	ug/l	1.10	50.00	90 - 110	
78 Se	46.16	ug/l	0.29	50.00	90 - 110	
78 Se	46.28	ug/l	5.46	50.00	90 - 110	
88 Sr	48.32	ug/l	1.70	50.00	90 - 110	
88 Sr	51.19	ug/l	0.14	50.00	90 - 110	
95 Mo	47.21	ug/l	0.43	50.00	90 - 110	
106 (Cd)	--------	ug/l	--------	50.00	90 - 110	
107 Ag	23.39	ug/l	0.48	25.00	90 - 110	
108 (Cd)	--------	ug/l	--------	50.00	90 - 110	
111 Cd	46.90	ug/l	0.34	50.00	90 - 110	
118 Sn	48.64	ug/l	0.96	50.00	90 - 110	
121 Sb	46.71	ug/l	1.45	50.00	90 - 110	
137 Ba	48.55	ug/l	0.84	50.00	90 - 110	
205 Tl	50.72	ug/l	0.75	50.00	90 - 110	
206 (Pb)	--------	ug/l	--------	50.00	90 - 110	
207 (Pb)	--------	ug/l	--------	50.00	90 - 110	
208 Pb	48.28	ug/l	0.52	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1820714.00	1.16	1867730.90	97.5	70 - 120	
45 Sc	845446.38	1.10	860905.50	98.2	70 - 120	
45 Sc	31931.74	2.27	30466.40	104.8	70 - 120	
45 Sc	1503853.80	0.54	1514635.40	99.3	70 - 120	
72 Ge	192961.42	0.56	175233.81	110.1	70 - 120	
72 Ge	14792.86	1.60	13286.95	111.3	70 - 120	
72 Ge	278253.81	0.65	261657.25	106.3	70 - 120	
115 In	1512179.10	0.51	1427636.50	105.9	70 - 120	
159 Tb	1798326.80	0.61	1715789.30	104.8	70 - 120	
165 Ho	1751732.30	0.31	1678833.30	104.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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\11D28m00.B\071_CCB.D\071_CCB.D#
Date Acquired: Apr 28 2011 07:12 pm
Operator: SDM
Sample Name: CCB 110425
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.15 ug/l	2.34	0.12	
11 B	1.00 ug/l	4.08	15.00	
23 Na	16.94 ug/l	5.26	77.10	
24 Mg	-0.37 ug/l	159.74	7.50	
27 Al	-0.70 ug/l	12.83	3.96	
39 K	-10.71 ug/l	95.33	19.20	
44 Ca	-16.60 ug/l	22.26	90.00	
47 Ti	-0.02 ug/l	274.32	0.78	
51 V	-0.05 ug/l	3.04	0.21	
52 Cr	-0.03 ug/l	13.28	0.12	
55 Mn	-0.01 ug/l	93.03	0.18	
56 Fe	-4.91 ug/l	0.56	40.80	
59 Co	-0.22 ug/l	1.55	0.09	
60 Ni	-0.02 ug/l	28.79	0.48	
63 Cu	-0.09 ug/l	8.50	0.39	
65 Cu	-0.10 ug/l	12.82	0.39	
66 Zn	-0.23 ug/l	9.72	6.90	
75 As	0.00 ug/l	1130.90	0.27	
78 Se	0.02 ug/l	37.58	0.30	
78 Se	0.23 ug/l	93.28	0.30	
88 Sr	-0.01 ug/l	169.25	0.03	
88 Sr	0.01 ug/l	30.36	0.03	
95 Mo	0.10 ug/l	25.34	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.01 ug/l	17.70	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.00 ug/l	112.99	0.06	
118 Sn	-0.21 ug/l	4.36	0.30	
121 Sb	0.10 ug/l	15.30	0.03	Fail
137 Ba	0.00 ug/l	253.71	0.12	
205 Tl	0.07 ug/l	10.20	0.03	Fail
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.23 ug/l	1.60	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1786887.00	0.86	1867730.90	95.7	70 - 120	
45 Sc	847528.19	0.78	860905.50	98.4	70 - 120	
45 Sc	33570.56	1.79	30466.40	110.2	70 - 120	
45 Sc	1542339.80	1.73	1514635.40	101.8	70 - 120	
72 Ge	194324.17	0.55	175233.81	110.9	70 - 120	
72 Ge	15628.93	1.32	13286.95	117.6	70 - 120	
72 Ge	281807.19	0.78	261657.25	107.7	70 - 120	
115 In	1546932.00	1.11	1427636.50	108.4	70 - 120	
159 Tb	1816793.00	1.92	1715789.30	105.9	70 - 120	
165 Ho	1777537.00	1.51	1678833.30	105.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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

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	04/27/11	04/28/11	#602D-110427A-AY36312

Metals SC-Blank-REG MDLs
Printed: 05/06/11 3:25:07 PM

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\031SMPL.D\031SMPL.D#
Date Acquired: Apr 28 2011 03:09 pm
Operator: SDM
Sample Name: 110427A-3015-BLK
Misc Info: 110427A-3015
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	-0.15	ug/l	-0.16	0.81	1000	
11 B	2.00	ug/l	2.23	0.67	1000	
23 Na	-22.37	ug/l	-24.85	4.12	25000	
24 Mg	17.20	ug/l	19.11	2.80	50000	
27 Al	56.38	ug/l	62.64	6.45	20000	
39 K	-2.40	ug/l	-2.67	196.62	20000	
44 Ca	148.40	ug/l	164.87	11.46	50000	
47 Ti	1.20	ug/l	1.33	24.74	1000	
51 V	0.00	ug/l	0.00	11365.00	1000	
52 Cr	0.10	ug/l	0.11	13.39	1000	
55 Mn	1.91	ug/l	2.12	3.91	1000	
56 Fe	12.87	ug/l	14.30	6.52	20000	
59 Co	-0.14	ug/l	-0.16	4.99	1000	
60 Ni	0.20	ug/l	0.23	12.47	1000	
63 Cu	0.00	ug/l	0.00	190.86	1000	
65 Cu	-0.02	ug/l	-0.02	132.76	1000	
66 Zn	26.27	ug/l	29.19	1.61	1000	
75 As	0.15	ug/l	0.17	26.40	1000	
78 Se	0.00	ug/l	0.00	309.29	1000	
78 Se	0.09	ug/l	0.10	174.23	1000	
88 Sr	0.15	ug/l	0.17	27.23	1000	
88 Sr	0.14	ug/l	0.16	6.00	1000	
95 Mo	0.56	ug/l	0.62	6.23	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	########	
107 Ag	0.01	ug/l	0.01	16.41	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	########	
111 Cd	0.00	ug/l	0.00	1366.80	1000	
118 Sn	0.49	ug/l	0.55	1.81	1000	
121 Sb	0.55	ug/l	0.61	6.38	1000	
137 Ba	0.25	ug/l	0.27	12.76	1000	
205 Tl	0.00	ug/l	0.00	23.45	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	########	
207 (Pb)	--------	ug/l	#VALUE!	--------	########	
208 Pb	-0.04	ug/l	-0.05	23.57	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1924895.00	0.64	1867730.90	103.1	70 - 120	
45 Sc	875515.13	1.55	860905.50	101.7	70 - 120	
45 Sc	32852.36	1.31	30466.40	107.8	70 - 120	
45 Sc	1552856.40	0.75	1514635.40	102.5	70 - 120	
72 Ge	193733.86	0.34	175233.81	110.6	70 - 120	
72 Ge	14702.05	0.56	13286.95	110.7	70 - 120	
72 Ge	276521.78	0.53	261657.25	105.7	70 - 120	
115 In	1529008.80	1.90	1427636.50	107.1	70 - 120	
159 Tb	1854965.40	1.05	1715789.30	108.1	70 - 120	
165 Ho	1826368.30	0.78	1678833.30	108.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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

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)	250	234	93.6	80-120	04/27/11	04/28/11	#602D-110427A-AY36312

Comments: _____

Printed: 05/06/11 3:25:14 PM
APPL Standard LCS

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\035SMPL.D\035SMPL.D#
Date Acquired: Apr 28 2011 03:34 pm
Operator: SDM
Sample Name: 110427A-3015-LCS
Misc Info: 110427A-3015
Vial Number: 3106
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	40.53	ug/l	45.03	0.97	1000	
11 B	221.50	ug/l	246.09	0.90	1000	
23 Na	21220.00	ug/l	23575.42	0.70	25000	
24 Mg	20940.00	ug/l	23264.34	0.49	50000	
27 Al	1813.00	ug/l	2014.24	1.44	20000	
39 K	4463.00	ug/l	4958.39	0.79	20000	
44 Ca	22440.00	ug/l	24930.84	0.30	50000	
47 Ti	222.80	ug/l	247.53	0.75	1000	
51 V	226.90	ug/l	252.09	0.52	1000	
52 Cr	222.00	ug/l	246.64	0.13	1000	
55 Mn	224.70	ug/l	249.64	0.10	1000	
56 Fe	953.00	ug/l	1058.78	0.74	20000	
59 Co	218.40	ug/l	242.64	1.03	1000	
60 Ni	212.90	ug/l	236.53	0.74	1000	
63 Cu	209.50	ug/l	232.75	0.48	1000	
65 Cu	208.90	ug/l	232.09	0.63	1000	
66 Zn	417.00	ug/l	463.29	0.51	1000	
75 As	213.10	ug/l	236.75	0.24	1000	
78 Se	210.50	ug/l	233.87	0.53	1000	
78 Se	215.10	ug/l	238.98	1.86	1000	
88 Sr	229.60	ug/l	255.09	0.46	1000	
88 Sr	225.80	ug/l	250.86	0.63	1000	
95 Mo	242.70	ug/l	269.64	0.56	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	85.70	ug/l	95.21	1.33	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	43.21	ug/l	48.01	1.75	1000	
118 Sn	212.70	ug/l	236.31	0.54	1000	
121 Sb	223.20	ug/l	247.98	0.40	1000	
137 Ba	227.80	ug/l	253.09	0.35	1000	
205 Tl	215.80	ug/l	239.75	0.56	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	210.80	ug/l	234.20	0.65	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1697362.60	1.31	1867730.90	90.9	70 - 120	
45 Sc	813936.06	1.44	860905.50	94.5	70 - 120	
45 Sc	32317.06	1.94	30466.40	106.1	70 - 120	
45 Sc	1510385.30	1.28	1514635.40	99.7	70 - 120	
72 Ge	180417.98	0.32	175233.81	103.0	70 - 120	
72 Ge	14275.34	1.44	13286.95	107.4	70 - 120	
72 Ge	266003.34	0.42	261657.25	101.7	70 - 120	
115 In	1458448.90	0.54	1427636.50	102.2	70 - 120	
159 Tb	1829773.00	0.28	1715789.30	106.6	70 - 120	
165 Ho	1792390.30	0.50	1678833.30	106.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.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

Matrix Spike Recoveries

METALS

APPL ID: **110427W-36312 MS - 154608**

Sample ID: AY36312

Client ID: ES020

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	250	ND	226	230	90.4	92.0	1.8	20	80-120	04/27/11	04/28/11	04/27/11	04/28/11	154608	AY36312

Comments: _____

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11D28m00.B\059SMPL.D\059SMPL.D#
Date Acquired: Apr 28 2011 05:59 pm
Operator: SDM
Sample Name: AY36312W30 MS
Misc Info: 110427A-3015
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.		Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	--------	ug/l	#VALUE!	--------	0	
9 Be	34.17	ug/l	37.96	0.53	1000	
11 B	288.10	ug/l	320.08	0.94	1000	
23 Na	94930.00	ug/l	105467.23	0.10	25000	>Cal
24 Mg	46320.00	ug/l	51461.52	0.85	50000	
27 Al	1765.00	ug/l	1960.92	0.95	20000	
39 K	7263.00	ug/l	8069.19	0.61	20000	
44 Ca	37380.00	ug/l	41529.18	0.29	50000	
47 Ti	219.50	ug/l	243.86	0.99	1000	
51 V	226.80	ug/l	251.97	0.56	1000	
52 Cr	215.30	ug/l	239.20	0.61	1000	
55 Mn	1808.00	ug/l	2008.69	0.67	1000	>Cal
56 Fe	1342.00	ug/l	1490.96	0.93	20000	
59 Co	210.80	ug/l	234.20	0.67	1000	
60 Ni	203.90	ug/l	226.53	0.76	1000	
63 Cu	196.40	ug/l	218.20	0.66	1000	
65 Cu	195.80	ug/l	217.53	0.36	1000	
66 Zn	402.50	ug/l	447.18	0.86	1000	
75 As	212.00	ug/l	235.53	0.71	1000	
78 Se	209.90	ug/l	233.20	0.52	1000	
78 Se	206.70	ug/l	229.64	1.77	1000	
88 Sr	347.70	ug/l	386.29	0.77	1000	
88 Sr	352.70	ug/l	391.85	0.58	1000	
95 Mo	239.40	ug/l	265.97	0.50	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	73.47	ug/l	81.63	2.11	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	42.33	ug/l	47.03	2.32	1000	
118 Sn	214.30	ug/l	238.09	1.62	1000	
121 Sb	227.90	ug/l	253.20	0.42	1000	
137 Ba	256.70	ug/l	285.19	1.22	1000	
205 Tl	208.20	ug/l	231.31	0.32	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	203.80	ug/l	226.42	1.43	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1642250.60	1.26	1867730.90	87.9	70 - 120	
45 Sc	935564.75	0.38	860905.50	108.7	70 - 120	
45 Sc	31311.55	1.55	30466.40	102.8	70 - 120	
45 Sc	1705298.60	0.62	1514635.40	112.6	70 - 120	
72 Ge	183058.41	0.86	175233.81	104.5	70 - 120	
72 Ge	14238.24	1.31	13286.95	107.2	70 - 120	
72 Ge	260582.06	0.75	261657.25	99.6	70 - 120	
115 In	1446888.80	1.09	1427636.50	101.3	70 - 120	
159 Tb	1807690.50	1.01	1715789.30	105.4	70 - 120	
165 Ho	1775889.40	1.09	1678833.30	105.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.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\11D28m00.B\060SMPL.D\060SMPL.D#
Date Acquired: Apr 28 2011 06:05 pm
Operator: SDM
Sample Name: AY36312W30 MSD
Misc Info: 110427A-3015
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\62A0428.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0428.C
Last Cal Update: Apr 28 2011 01:00 pm
Sample Type: Sample
Prep Dil Factor: 1.11
Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	#VALUE!	--------	0	
9 Be	34.52 ug/l	38.35	0.23	1000	
11 B	293.30 ug/l	325.86	0.84	1000	
23 Na	96650.00 ug/l	107378.15	2.07	25000	>Cal
24 Mg	46510.00 ug/l	51672.61	1.94	50000	
27 Al	1760.00 ug/l	1955.36	1.80	20000	
39 K	7314.00 ug/l	8125.85	0.95	20000	
44 Ca	37180.00 ug/l	41306.98	1.93	50000	
47 Ti	223.30 ug/l	248.09	2.23	1000	
51 V	228.70 ug/l	254.09	1.42	1000	
52 Cr	216.70 ug/l	240.75	1.13	1000	
55 Mn	1869.00 ug/l	2076.46	1.40	1000	>Cal
56 Fe	1360.00 ug/l	1510.96	0.42	20000	
59 Co	212.20 ug/l	235.75	0.72	1000	
60 Ni	204.80 ug/l	227.53	0.79	1000	
63 Cu	198.80 ug/l	220.87	1.44	1000	
65 Cu	198.50 ug/l	220.53	1.53	1000	
66 Zn	398.40 ug/l	442.62	1.59	1000	
75 As	212.80 ug/l	236.42	1.00	1000	
78 Se	207.70 ug/l	230.75	0.28	1000	
78 Se	201.90 ug/l	224.31	2.87	1000	
88 Sr	351.50 ug/l	390.52	0.18	1000	
88 Sr	356.50 ug/l	396.07	0.38	1000	
95 Mo	241.80 ug/l	268.64	1.37	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	########	
107 Ag	77.11 ug/l	85.67	1.31	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	########	
111 Cd	41.91 ug/l	46.56	0.60	1000	
118 Sn	226.10 ug/l	251.20	1.71	1000	
121 Sb	228.10 ug/l	253.42	0.82	1000	
137 Ba	259.10 ug/l	287.86	1.55	1000	
205 Tl	210.70 ug/l	234.09	1.04	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	########	
207 (Pb)	-------- ug/l	#VALUE!	--------	########	
208 Pb	207.40 ug/l	230.42	0.77	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1673624.60	0.56	1867730.90	89.6	70 - 120	
45 Sc	943826.38	1.49	860905.50	109.6	70 - 120	
45 Sc	30775.67	1.72	30466.40	101.0	70 - 120	
45 Sc	1682864.40	0.62	1514635.40	111.1	70 - 120	
72 Ge	182461.31	0.79	175233.81	104.1	70 - 120	
72 Ge	13977.63	1.89	13286.95	105.2	70 - 120	
72 Ge	257426.92	1.00	261657.25	98.4	70 - 120	
115 In	1431386.60	1.19	1427636.50	100.3	70 - 120	
159 Tb	1788853.50	1.05	1715789.30	104.3	70 - 120	
165 Ho	1763456.00	0.75	1678833.30	105.0	70 - 120	

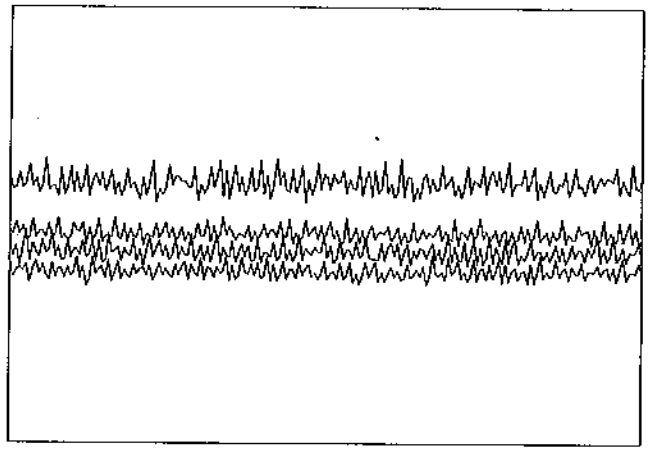
ISTD Ref File : C:\ICPCHEM\1\DATA\11D28m00.B\005CALB.D\005CALB.D#

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

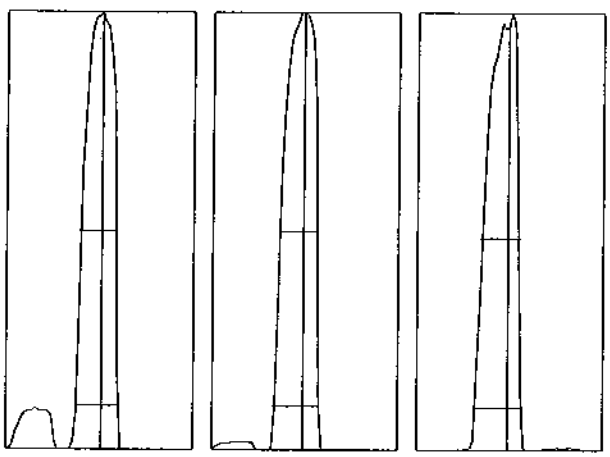
Tune Report

Tune File : nogas.u
Comment : 110428



Integration Time:	0.1000 sec	
Sampling Period:	0.6200 sec	
n:	200	
Oxide:	156/140	0.996%
Doubly Charged:	70/140	1.295%

m/z	Range	Count	Mean	RSD%	Background
7	50,000	23358.0	24058.9	3.45	0.60
89	50,000	21041.0	21971.5	4.55	2.10
205	20,000	12128.0	11955.2	4.13	9.60
156/140	2	0.973%	1.002%	10.64	
70/140	2	1.275%	1.279%	8.41	
140	50,000	19215.0	19704.0	4.23	6.10



m/z:	7	89	205
Height:	23,978	21,703	11,735
Axis:	7.05	89.00	205.00
W-50%:	0.60	0.65	0.65
W-10%:	0.700	0.7500	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Generated : Apr 28, 2011 12:03:28
Printed : Apr 28, 2011 12:03:30

Tune Report

Tune File : nogas.u
Comment : 110428

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1600 W	Extract 1	:	0.1 V	AMU Gain	:	126
RF Matching	:	1.7 V	Extract 2	:	-110 V	AMU Offset	:	127
Smpl Depth	:	10.5 mm	Omega Bias-ce	:	-20 V	Axis Gain	:	0.9997
Torch-H	:	0.1 mm	Omega Lens-ce	:	-2.6 V	Axis Offset	:	-0.02
Torch-V	:	0.3 mm	Cell Entrance	:	-30 V	QP Bias	:	-3 V
Carrier Gas	:	0.98 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	:	1620 V
Sample Pump	:	--- rps	OctP RF	:	170 V	Pulse HV	:	1190 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	:	--- %

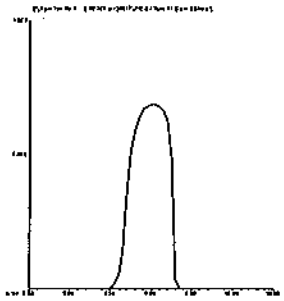
Generated : Apr 28, 2011 12:03:28
Printed : Apr 28, 2011 12:03:32

200.8 QC Tune Report

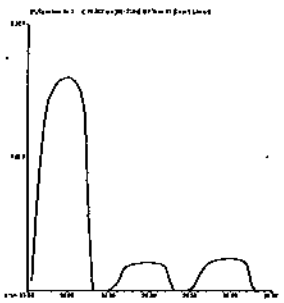
Data File: C:\ICPCHEM\1\DATA\11D28m00.B\001TUNE.D
Date Acquired: Apr 28 2011 12:09 pm
Acq. Method: TN200_8.M
Operator: SDM
Sample Name: 100ppb Tune sol
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

RSD (%)

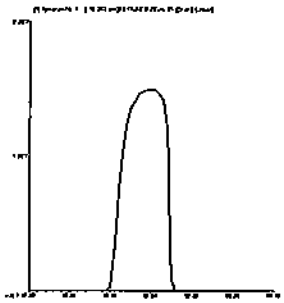
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	37699494	37467732	37631584	37553700	37887220	37957236	**0.36**	5.00	
24 Mg	92979471	92000464	92946200	92996048	93134264	93820376	**0.73**	5.00	
59 Co	89018731	88175448	89009840	88961032	89718584	89228752	**0.75**	5.00	
115 In	100212466	########	99662040	########	########	########	**0.56**	5.00	
208 Pb	42108312	42076068	42369156	42057388	42190680	41848268	**0.48**	5.00	



9 Be
Mass Calib.
Actual: 9.00
Required: 8.90 - 9.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



24 Mg
Mass Calib.
Actual: 24.00
Required: 23.90 - 24.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:



59 Co

Mass Calib.

Actual:	58.95		
Required:	58.90	-	59.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.90		
Flag:			

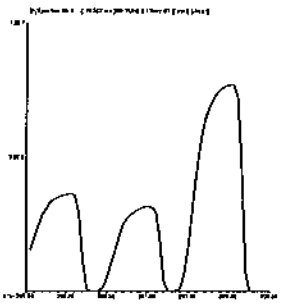
115 In

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:	207.95		
Required:	207.90	-	208.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.80		
Flag:			

Tune Result: Pass

HM 6020/6020A
4/25/11

ICP-MS STANDARDS 6020/6020A/3015/3051A
Today's Date: 4/25/2011
Expires: 5/2/2011
Prep Date 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL DI Water
Lot # 1110030
20mL HCL / 2000mL DI Water
Lot #4110060
Expires: 5/2/2011

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	Env. Express	1036407-28139
50 uL	CCV-B	Env. Express	1036410-28140
50 uL	CCV-C	Env. Express	1100309-28141

Prepared in 100 mL of 1% HNO3/1.0% HCL 4/25/2011

Standard 3 5/2/2011

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	Env. Express	1036407-28139
25 uL	CCV-B	Env. Express	1036410-28140
25 uL	CCV-C	Env. Express	1100309-28141

Prepared in 100 mL of 1% HNO3/1.0% HCL 4/25/2011

HM 4/25/11

Standard 2 5/2/2011

Amount	STD	
500 uL	Standard 4	4/25/2011

Prepared in 50 mL of 1% HNO3/1.0% HCL 4/25/2011

Standard 1 5/2/2011

Amount	STD	
50 uL	Standard 4	4/25/2011

Prepared in 50 mL of 1% HNO3/1.0% HCL 4/25/2011

ICP-MS ICV 5/2/2011

Amount	STD		
50 uL	QCS ICV A	CPI	11C174-28548
50 uL	QCS ICV B	CPI	11C174-28549

Prepared in 50 mL of 1% HNO3/1.0% HCL 4/25/2011

ICSA Prep: 5/2/2011

1 mL	ICSA	CPI	11C066-28529

Prepared in 5 mL of 1% HNO3/1.0% HCL 4/25/2011

ICSAB Prep: 5/2/2011

1mL	ICSA	CPI	11C066-28529
0.025mL	INT	O2SI	1023805-28210

Prepared in 5 mL of 1% HNO3/1.0% HCL 4/25/2011

ICP-LDR 5/2/2011

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 4/25/2011

Internal Standard Concentration

Amt	STD	Element	Vendor	Lot#	Final Conc. In Std	Expires
50uL	1000 ug/mL	Li	CPI	10L079-27839	1ppm	8/10/2012
50uL	1000 ug/mL	In	CPI	090228-25327	1ppm	4/23/2011
50uL	1000 ug/mL	Ho	CPI	09F382-25328	1ppm	4/23/2011
50uL	1000 ug/mL	Tb	CPI	09A222-25326	1ppm	4/23/2011
50uL	1000 ug/mL	Sc	o2si	1024073-28527	1ppm	8/18/2012
50uL	1000 ug/mL	Ge	Environmental Express	0932416-25995	1ppm	7/13/2011

Prep: 4/25/2011 SDM Prep in - 1%HNO3/1.0%HCL: Lot #1110030/4110060 in 50mL
Expires: 5/25/2011

HM 4/25/11

_M3015

Metals Digestion Worksheet

Method Name 3015 Digestion **Prep Method** M3015 **Set** 110427A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 11CI73-28546
Spiked ID 2	LCSW LOT# 11CI72-28545
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 04/27/11 9:37:00 AM
Witnessed By	DP Date: 04/27/11 9:37:00 AM

Starting Temp:	30°c
Ending Temp:	170°c
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	YES
End Date/Time	4/27/11 10:37

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	110427A Blk				45mL	50mL	04/27/11 9:37	
2	110427A LCS		450uL	1+2	45mL	50mL	04/27/11 9:37	
3	AY36311	AY36311W08			45mL	50mL	04/27/11 9:37	
4	AY36312	AY36312W29			45mL	50mL	04/27/11 9:37	
5	AY36312 MS	AY36312W30	450uL	1+2	45mL	50mL	04/27/11 9:37	
6	AY36312 MSD	AY36312W30	450uL	1+2	45mL	50mL	04/27/11 9:37	
7	AY36313	AY36313W08			45mL	50mL	04/27/11 9:37	
8	AY36316	AY36316W08			45mL	50mL	04/27/11 9:37	
9	AY36317	AY36317W08			45mL	50mL	04/27/11 9:37	
10	AY36384	AY36384W28			45mL	50mL	04/27/11 9:37	
11	AY36384 MS	AY36384W29	450uL	1+2	45mL	50mL	04/27/11 9:37	
12	AY36384 MSD	AY36384W29	450uL	1+2	45mL	50mL	04/27/11 9:37	
13	AY36385	AY36385W08			45mL	50mL	04/27/11 9:37	
14	AY36387	AY36387W08			45mL	50mL	04/27/11 9:37	

Solvent and Lot#
HNO3 BDH 1110110 2903

Sample COC Transfer	
Sample prep employee Initials	dp
Analyst's initials	HM 15 DM
Date	4/28/11
Time	7:30
Moved to	Metals

Technician's Initials	
Scanned By	dp
Sample Preparation	nm
Digestion	nm
Bring up to volume	dp
Modified	04/27/11 8:40:27 AM

Reviewed By: HM 407 **Date:** 4/28/11

6020/200.8 Injection Log

Directory: K:\ICP-MS Optimus\raw data output csv\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	28 Apr 2011	12:32	Calibration Blank		110428A	1.
2	28 Apr 2011	12:38	110425 Standard 1		110428A	1.
3	28 Apr 2011	12:44	110425 Standard 2		110428A	1.
4	28 Apr 2011	12:50	110425 Standard 3		110428A	1.
5	28 Apr 2011	12:56	110425 Standard 4		110428A	1.
6	28 Apr 2011	13:02	ICV 110425		110428A	1.
8	28 Apr 2011	13:27	CCV 110425		110428A	1.
9	28 Apr 2011	13:51	ICB 110425		110428A	1.
10	28 Apr 2011	13:57	CCB 110425		110428A	1.
11	28 Apr 2011	14:03	LDR 110425		110428A	1.
12	28 Apr 2011	14:15	ICSA 110425		110428A	1.
13	28 Apr 2011	14:21	ICSAB 110425		110428A	1.
14	28 Apr 2011	14:33	CCV 110425		110428A	1.
15	28 Apr 2011	14:57	CCB 110425		110428A	1.
17	28 Apr 2011	15:09	110427A-3015-BLK		110428A	1.
20	28 Apr 2011	15:34	110427A-3015-LCS		110428A	1.
24	28 Apr 2011	16:10	CCV 110425		110428A	1.
25	28 Apr 2011	16:22	CCB 110425		110428A	1.
35	28 Apr 2011	17:23	AY36311W08		110428A	1.
37	28 Apr 2011	17:35	CCV 110425		110428A	1.
38	28 Apr 2011	17:47	CCB 110425		110428A	1.
39	28 Apr 2011	17:53	AY36312W29		110428A	1.
40	28 Apr 2011	17:59	AY36312W30 MS		110428A	1.
41	28 Apr 2011	18:05	AY36312W30 MSD		110428A	1.
42	28 Apr 2011	18:11	AY36312W29-A		110428A	1.
43	28 Apr 2011	18:17	AY36312W29-1/5		110428A	5.
44	28 Apr 2011	18:23	AY36313W08		110428A	1.
45	28 Apr 2011	18:29	AY36316W08		110428A	1.
46	28 Apr 2011	18:35	AY36317W08		110428A	1.
50	28 Apr 2011	18:59	CCV 110425		110428A	1.
51	28 Apr 2011	19:12	CCB 110425		110428A	1.

Laboratory Report

Environet

LTM Red Hill Bulk Fuel Storage Facility

ARF 64544

Samples collected: April 28, 2011

APPL, Inc.

Data Validation Package
for
LTM Red Hill Bulk Fuel Storage Facility
ARF 64544
TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

CASE NARRATIVE

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

Case Narrative

ARF: 64544

Project: LTM Red Hill Bulk Fuel Storage Facility

State Certification Number: CA1312 (DW & WW)

NELAP Certification number: 05233CA (HW)

DoD-ELAP Certificate number: ADE-1410

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.

Sample Receipt Information:

The water samples were received on April 29, 2011, at 3.5°C. The sample group was assigned Analytical Request Form (ARF) number 64544. The sample numbers and requested analyses were compared to the chain of custody. No exception was encountered.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
ES033	AY36735	WATER	04/28/11	04/29/11
ES034	AY36736	WATER	04/28/11	04/29/11

All samples were screened for J-value responses between the LOQ and DL.

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 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 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 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 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. Sample ES033 was received in unpreserved vials; the sample was analyzed within seven days of collection.

Quality Control/Assurance

Calibrations:

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

Blanks:

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

Spikes:

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

No sample was designated by the client for MS/MSD analysis.

Surrogates

Surrogate recoveries are summarized on the 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 problem was encountered. The data generated are acceptable.

EPA Method 6020
Lead

Digestion Information:

The water sample was digested according to EPA methods 3015. 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 serial dilution were used for quality assurance. All LCS recoveries were within the acceptance limits.

Sample ES033 was selected by the laboratory for MS/MSD analysis. All acceptance criteria were met for the MS/MSD, PDS, and serial dilution.

Summary:

No analytical exception is noted.

CERTIFICATION

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

5/31/14

Leonard Fong, Ph.D, Laboratory Director / Date

CHAIN OF CUSTODY

AND ARF

APPL - Analysis Request Form 64544

Client: **Environet, Inc.**
Address: **650 Iwilei Rd, #204**
Honolulu, HI 96817
Attn: **Vilma Dupra**
Phone: **808-833-2225** Fax: **808-833-2231**
Job: **LTM Red Hill Bulk Fuel Storage Facility**
PO #: **1022-015**
Chain of Custody (Y/N): **Y** # **34092**
RAD Screen (Y/N): **Y** pH (Y/N): **Y**
Turn Around Type: **2 WEEKS**

Received by: **TBV**
Date Received: **04/29/11** Time: **10:30**
Delivered by: **FED EX**
Shuttle Custody Seals (Y/N): **Y**
Chest Temp(s): **3.5°C**
Color: **VOA,H-PURGRN,P-OGRN**
Samples Chilled until Placed in Refrig/Freezer: **Y**
Project Manager: **Cynthia Clark**
QC Report Type: **DVP4/ADRDOD/HI**
Due Date: **05/13/11**

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

Sample Distribution:
GC: 1-$SIMHC12W, 1-$TPETD2
Extractions: 1-_SEP004S, 1-_SEP011
VOA: 2-$86RHBF
Metals: 1-$602D(Pb)
Other: 1-_M3015

Charges:

Invoice To:
same

	Client ID	APPL ID	Sampled	Analyses Requested
1.	ES033	AY36735W	04/28/11 13:00	$602D(Pb), $86RHBF, $SIMHC12W, $TPETD2 -- non-preserved VOA
2.	ES034	AY36736W	04/28/11 10:00	$86RHBF -- non-preserved VOA

Initials _____ Date _____

APPL Sample Receipt Form

ARF# **64544**

Sample	Container Type	Count	pH
AY36735	[6] PL 500mL - HNO3	1	1.7
	[15] VOAs - NP	4	NA
	[17] Amber Liter	3	NA
AY36736	[13] VOAs - HCL	1	NA

Sample	Container Type	Count	pH

CHAIN OF CUSTODY RECORD

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611
Phone: (559) 275-2175
Fax: (559) 275-4422

C.O.C. 34092

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 Dupra		Attn: Cecilia Adams	

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number	Date Shipped: 4/28/11
Red Hill/1022-015	Stacey Fineran		Carrier: Fed Ex
Purchase Order Number	Sampler (Signature)		Waybill No.:
			Comments:

Sample Identification	Location	Date Collected	Time Collected	No. of Containers	Matrix: Aq	Sed.	Soil	VOCs	TPH-GRO	PAHs	TPH-DRO	Dissolved Pb
ES033	Red Hill	4-28-11	13:00	8	X			X	X	X	X	X
ES034	Red Hill	4-28-11	10:00	1	X			X				

Shuttle Temperature:	Turnaround Requested: MUST CHECK ONE	Sample Disposal:
	☒ Standard (2-3 week) ☐ One week ☐ 24-48 hour	☐ Return to client ☒ Disposal by Lab (30-day retention)

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
Stacey Fineran	4/28/11	1500	Fed Ex				
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date 4/29/11	Time 1030	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: 4/29/11

2) Coolers: Number of Coolers: 1

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

4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 4/28/11

5) Name on seal? See Label

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

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

8) Shipping slip numbers: 1) 8748 0067 1370 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? vc 4/29/11

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

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

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

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

15) Cooler temp(s): 1) 3.5°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: AY36736W01

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 > 10?

37) YES NO NA Unpreserved VOA Vials received?

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

Lab notified if pH was not adequate:

Deficiencies:

Signature of personnel receiving samples: Yong Ho 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):

CUSTODY SEAL

APPL, inc.

(559) 275-2175

Initials SF

Date 4/29/11

EPA 8015 Modified
Total Petroleum Hydrocarbons

EPA 8015 Modified
Total Petroleum Hydrocarbons
QC Summary

Method Blank
TPH Diesel Water

Blank Name/QCG: **110503W-36735 - 155099**
Batch ID: #TPETD-110503A

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	5/3/2011	5/11/2011
BLANK	SURROGATE: OCTACOSANE (S)	68.8	28-142			%	5/3/2011	5/11/2011
BLANK	SURROGATE: ORTHO-TERPHEN	59.8	57-132			%	5/3/2011	5/11/2011

Quant Method: TPHD422.M
Run #: 509131
Instrument: Apollo
Sequence: 110509
Initials: LA

GC SC-Blank-REG MDLs
Printed: 5/27/2011 3:13:17 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64544

Case No: 64544 Date Analyzed: 5/11/2011

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)	SURROGATE: ORTHO-TERPHENYL (S)
110503A-BLK	Blank	68.8	59.8
110503A-LCS	Lab Control Spike	67.3	74.7
AY36735	ES033	73.0	57.1

Comments: Batch: #TPETD-110503A

Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **110503W-36735 LCS - 155099**
Batch ID: #TPETD-110503A

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	1380	69.0	61-143
SURROGATE: OCTACOSANE (S)	150	101	67.3	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	112	74.7	57-132

Comments:

Primary	SPK
Quant Method :	TPHD422.M
Extraction Date :	5/3/2011
Analysis Date :	5/11/2011
Instrument :	Apollo
Run :	509132
Initials :	LA

Printed: 5/27/2011 3:13:09 PM

APPL Standard LCS

EPA 8015B-e

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 64544

Case No: 64544 Date Analyzed: 5/11/2011

Matrix: WATER Instrument: Apollo

Blank ID: 110503A-BLK Time Analyzed: 1840

APPL ID.	Client Sample No.	File ID.	Date Analyzed
110503A-BLK	Blank	509131	5/11/2011 1840
110503A-LCS	Lab Control Spike	509132	5/11/2011 1906
AY36735	ES033	516015	5/16/2011 1709

Comments: Batch: #TPETD-110503A

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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64544

Sample ID: ES033

APPL ID: AY36735

Sample Collection Date: 4/28/2011

QCG: #TPETD-110503A-155099

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	300 ++	150	80.8	40.4	ug/L	5/3/2011	5/16/2011
EPA 8015B-	SURROGATE: OCTACOSANE (S)	73.0	28-142			%	5/3/2011	5/16/2011
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S	57.1	57-132			%	5/3/2011	5/16/2011

++(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:	TPHD422.M
Run #:	516015
Instrument:	Apollo
Sequence:	110516
Dilution Factor:	1
Initials:	LA

Printed: 5/27/2011 3:13:13 PM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (Not Reviewed)

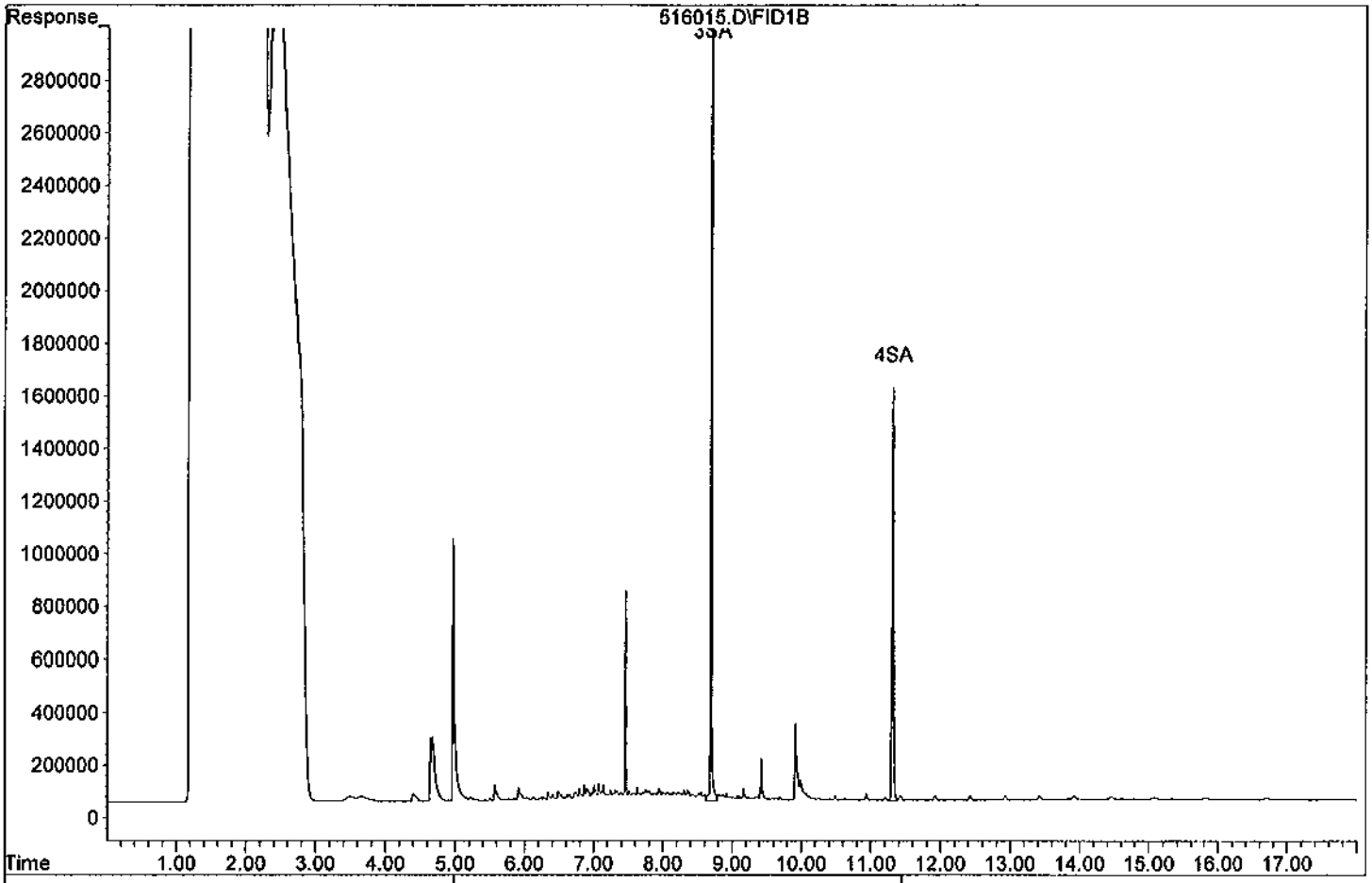
Data File : G:\APOLLO\DATA\110516\516015.D Vial: 15
Acq On : 5-16-11 17:09:07 Operator: LAC
Sample : AY36735W07 5/1025 Inst : Apollo
Misc : Water Multiplr: 4.88
IntFile : events.e
Quant Time: May 27 15:06 2011 Quant Results File: TPHD422.RES

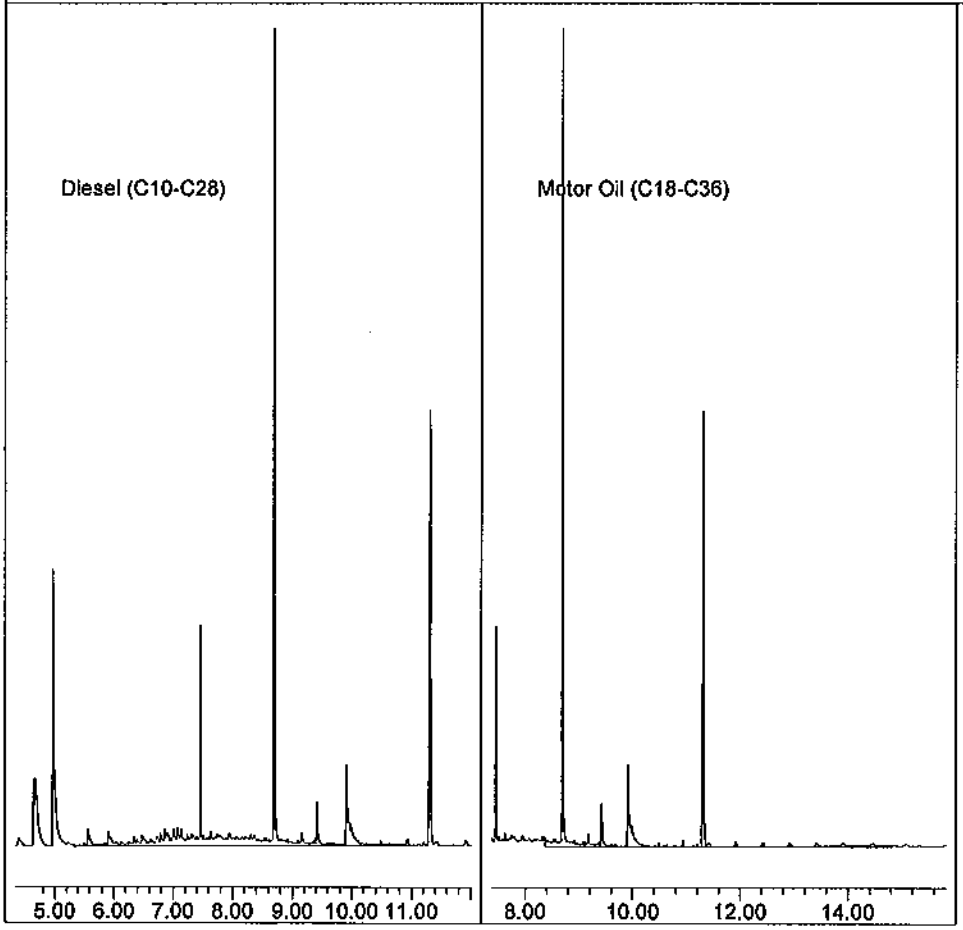
Method : G:\APOLLO\DATA\110513\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.69	29585839	83.506 ppb
Surrogate Spike 146.341		Recovery =	57.06%
4) SA Octacosane(S)	11.32	25153058	106.858 ppb
Surrogate Spike 146.341		Recovery =	73.02%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	69588143	295.363 ppb TL
2) HBTM Motor Oil (C18-C36)	11.60	30276773	160.143 ppb ND

Data File: G:\APOLLO\DATA\110516\516015.D
Sample : AY36735W07 5/1025





EPA 8015 Modified
Total Petroleum Hydrocarbons

Calibration Data

TPH Extractables
TPHD422

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 64544
Case No: Initial Cal. Date: 4/22/2011
Matrix: Instrument: Apollo
Initials: LAC

			422010.D	422011.D	422012.D	422013.D	422014.D	422015.D								
		Compound	1	2	3	4	5	6					Avg	%RSD		
1	HATM	Diesel (C10-C28)	588896	605651	564267	563101	566081	559844					574640	3.2	HATM	
2	HBTML	Motor Oil (C18-C36)	219231	487042	368565	381363	367228	364261					364615	23	HBTML	0.997
3	SA	Ortho-Terphenyl(S)	790967	1100428	805689	864346	777656	845708					864132	14	SA	
4	SA	Octacosane(S)	558338	571843	577087	583268	580825	573339					574116	1.5	SA	
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																

1.2024801

Quantitation Report (Not Reviewed)

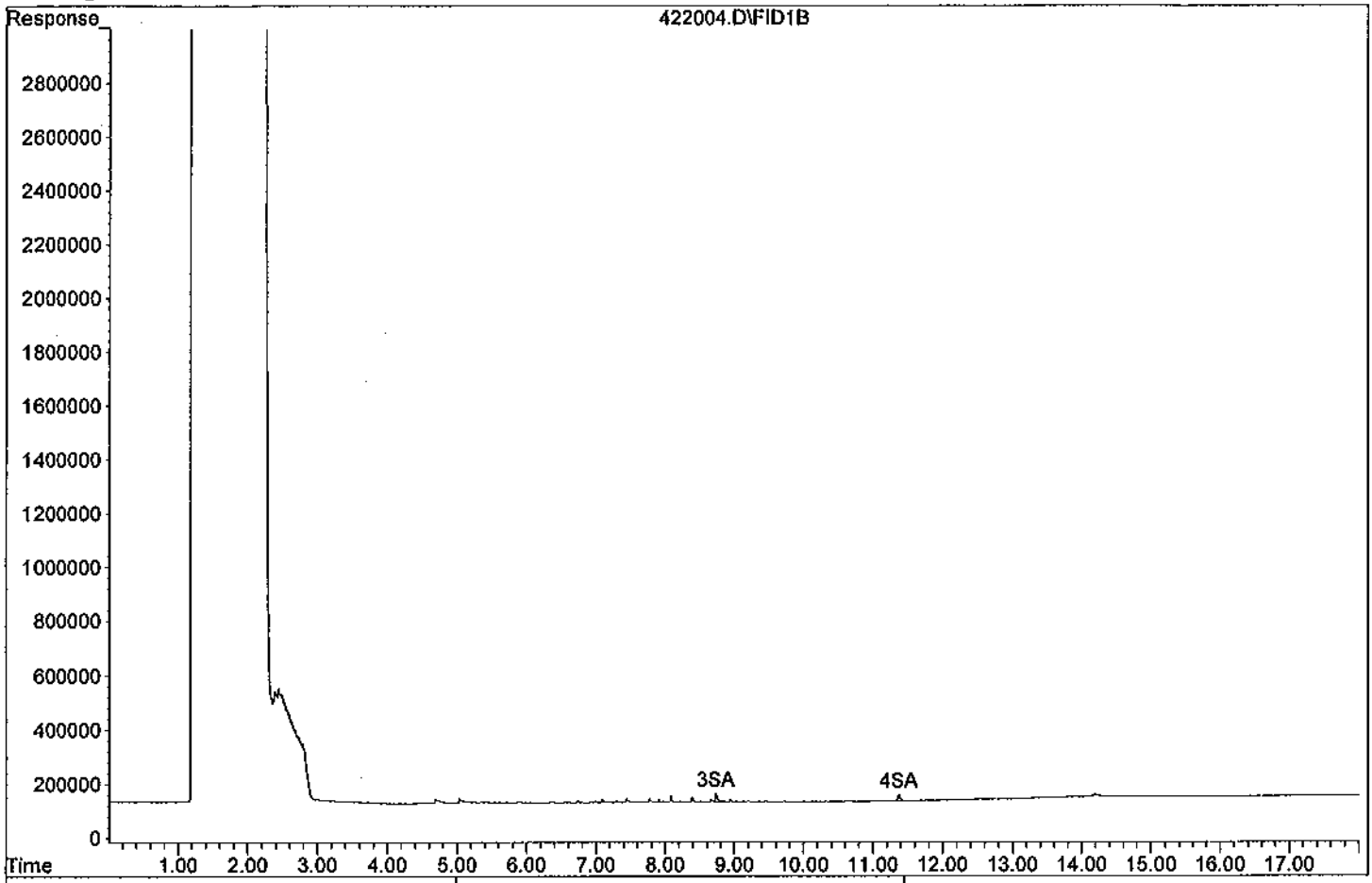
Data File : G:\APOLLO\DATA\110422\422004.D Vial: 4
Acq On : 4-22-11 11:20:08 Operator: LAC
Sample : DIESEL 10/1000 4/22/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 28 7:45 2011 Quant Results File: TPHD422.RES

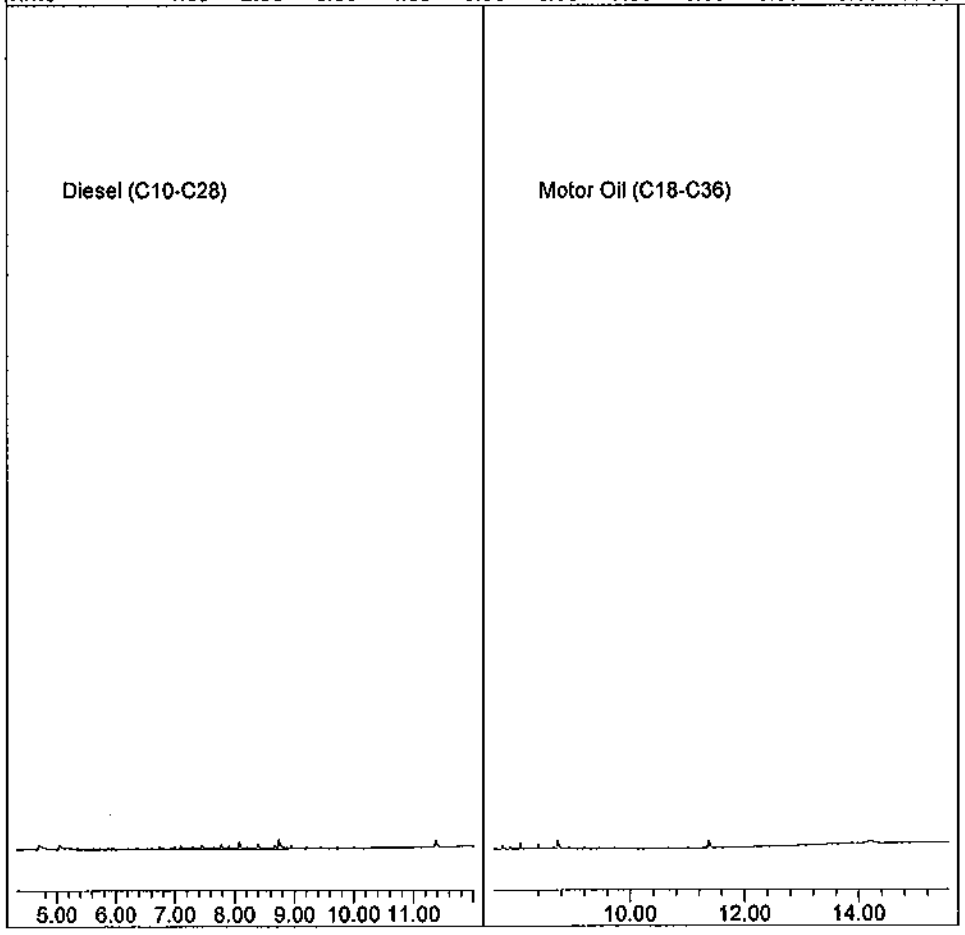
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.74	790967	0.458 ppb
Surrogate Spike 30.000	Recovery	=	1.53%
4) SA Octacosane(S)	11.38	558338	0.486 ppb
Surrogate Spike 30.000	Recovery	=	1.62%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	11777927	10.248 ppb

Data File: G:\APOLLO\DATA\110422\422004.D
Sample : DIESEL 10/1000 4/22/11





Quantitation Report (Not Reviewed)

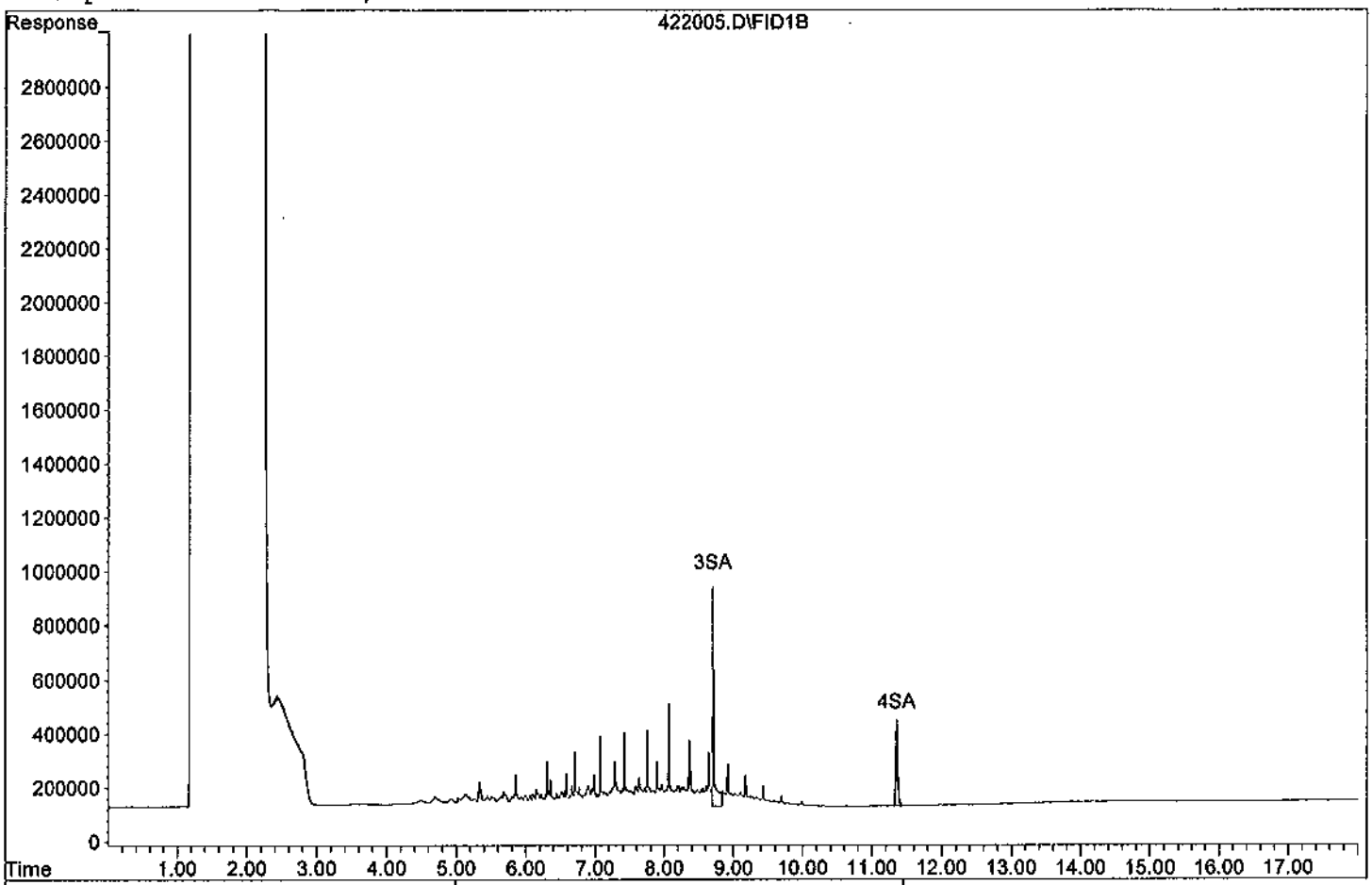
Data File : G:\APOLLO\DATA\110422\422005.D Vial: 5
Acq On : 4-22-11 11:45:11 Operator: LAC
Sample : DIESEL 100/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 28 7:45 2011 Quant Results File: TPHD422.RES

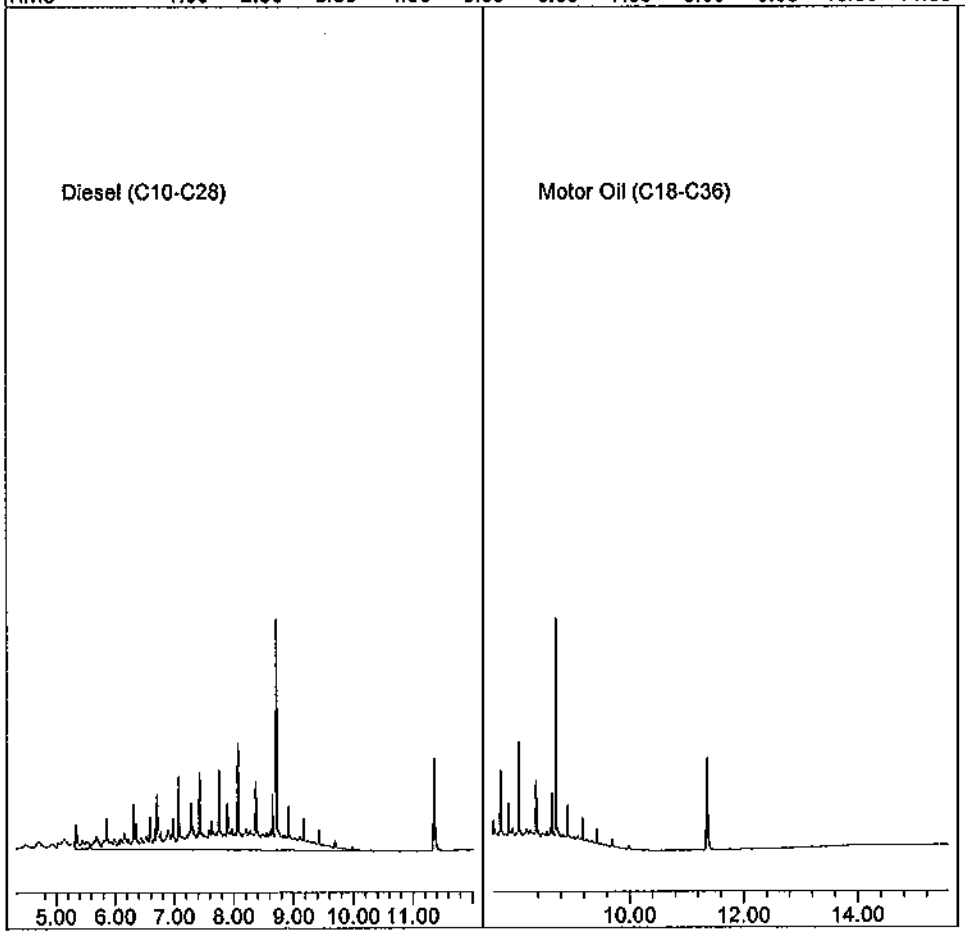
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.71	11004276	6.367 ppb
Surrogate Spike 30.000	Recovery =		21.22%
4) SA Octacosane(S)	11.36	5718428	4.980 ppb
Surrogate Spike 30.000	Recovery =		16.60%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	121130154	105.397 ppb

Data File: G:\APOLLO\DATA\110422\422005.D
Sample : DIESEL 100/1000





Quantitation Report (Not Reviewed)

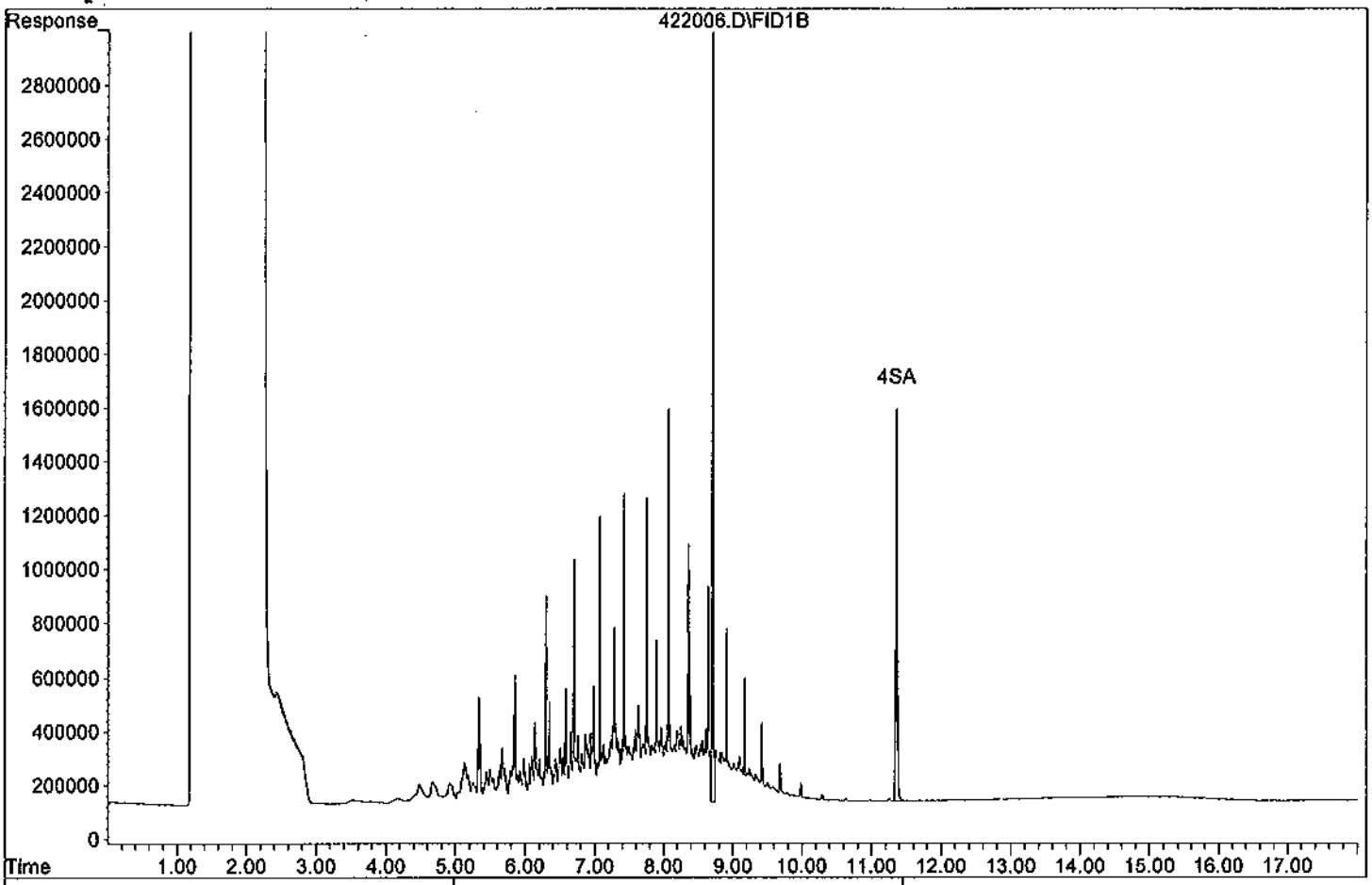
Data File : G:\APOLLO\DATA\110422\422006.D Vial: 6
Acq On : 4-22-11 12:10:19 Operator: LAC
Sample : DIESEL 400/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 28 7:45 2011 Quant Results File: TPHD422.RES

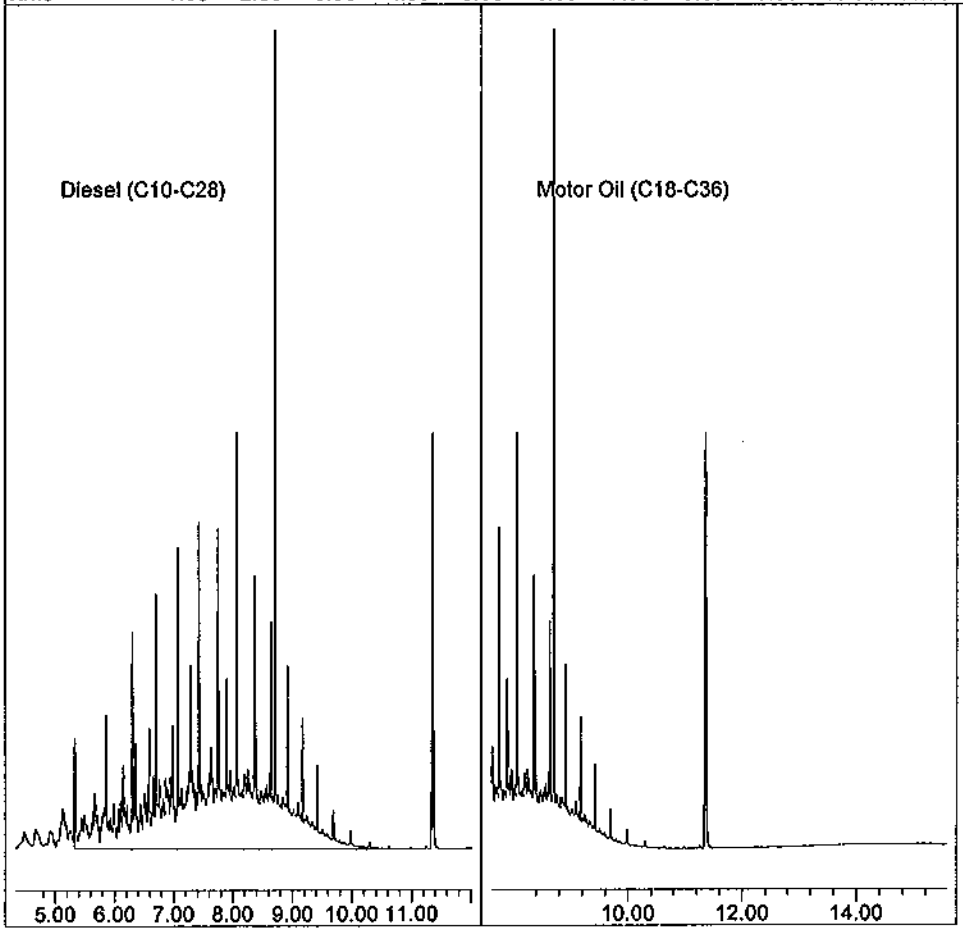
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.71	32227552	18.647 ppb
Surrogate Spike 30.000	Recovery =		62.16%
4) SA Octacosane(S)	11.36	23083461	20.103 ppb
Surrogate Spike 30.000	Recovery =		67.01%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	451413213	392.779 ppb

Data File: G:\APOLLO\DATA\110422\422006.D
Sample : DIESEL 400/1000





Quantitation Report (Not Reviewed)

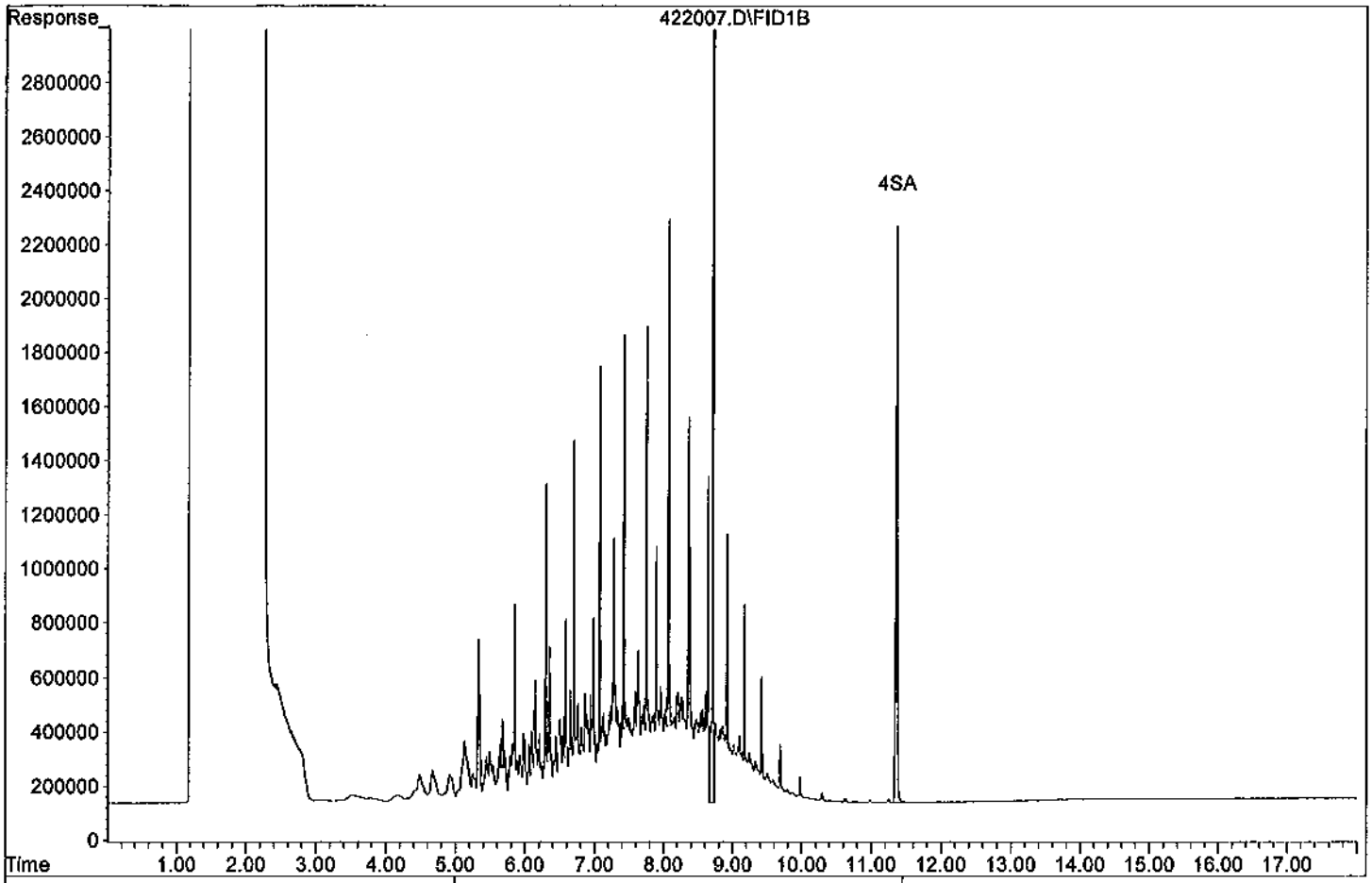
Data File : G:\APOLLO\DATA\110422\422007.D Vial: 7
Acq On : 4-22-11 12:35:32 Operator: LAC
Sample : DIESEL 600/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 28 7:45 2011 Quant Results File: TPHD422.RES

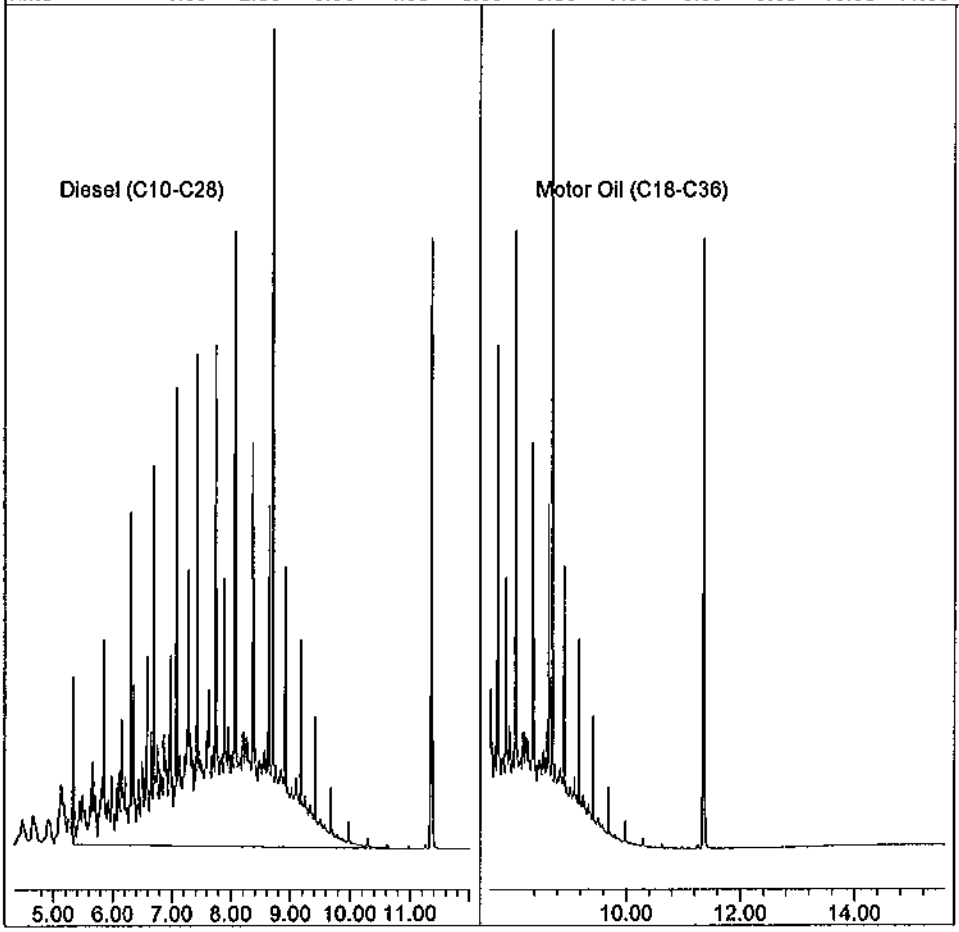
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.71	51860788	30.007 ppb
Surrogate Spike 30.000	Recovery =		100.02%
4) SA Octacosane(S)	11.36	34996058	30.478 ppb
Surrogate Spike 30.000	Recovery =		101.59%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	675721423	587.952 ppb

Data File: G:\APOLLO\DATA\110422\422007.D
Sample : DIESEL 600/1000





Quantitation Report (Not Reviewed)

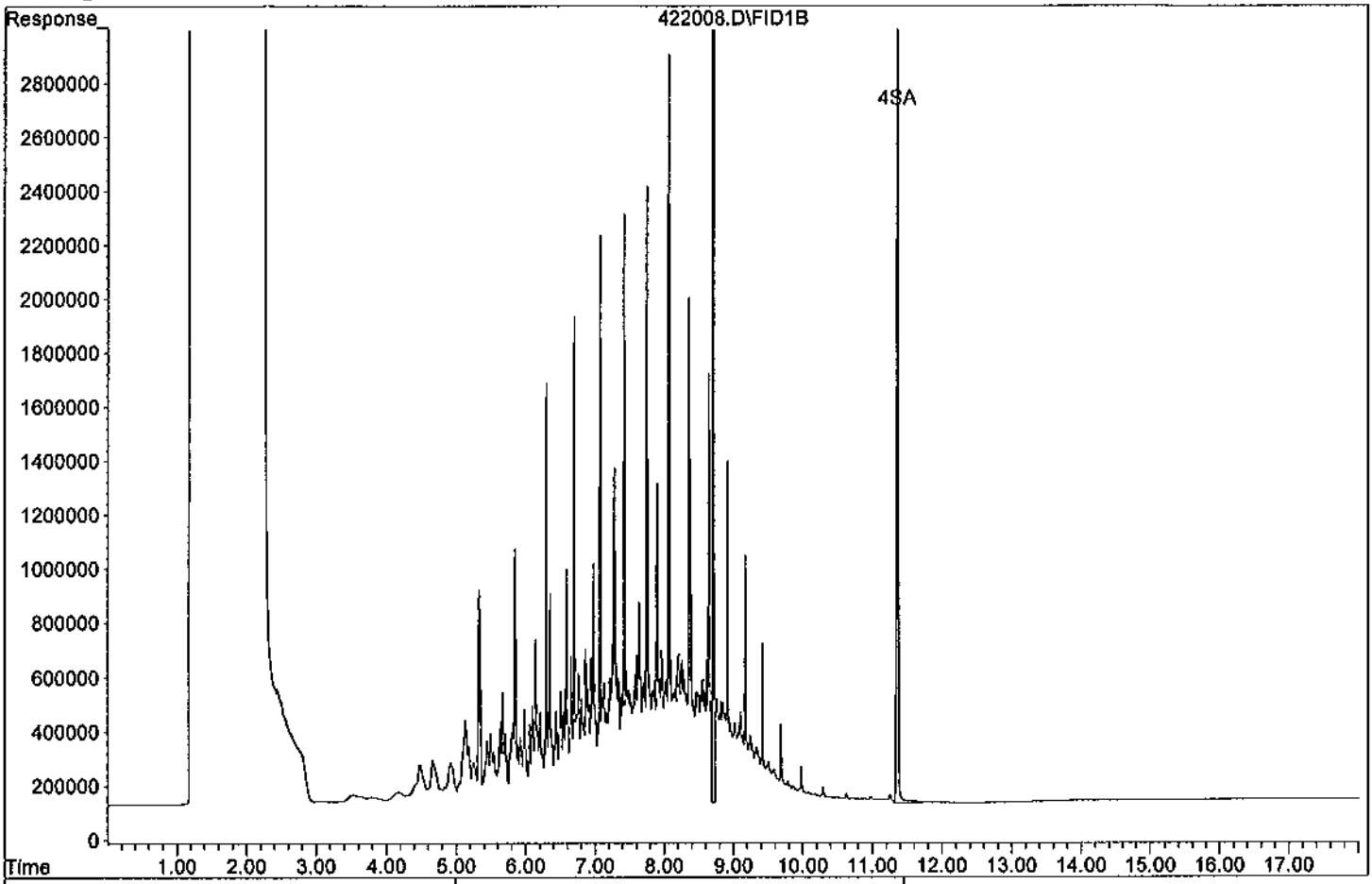
Data File : G:\APOLLO\DATA\110422\422008.D Vial: 8
Acq On : 4-22-11 13:00:52 Operator: LAC
Sample : DIESEL 800/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 28 7:46 2011 Quant Results File: TPHD422.RES

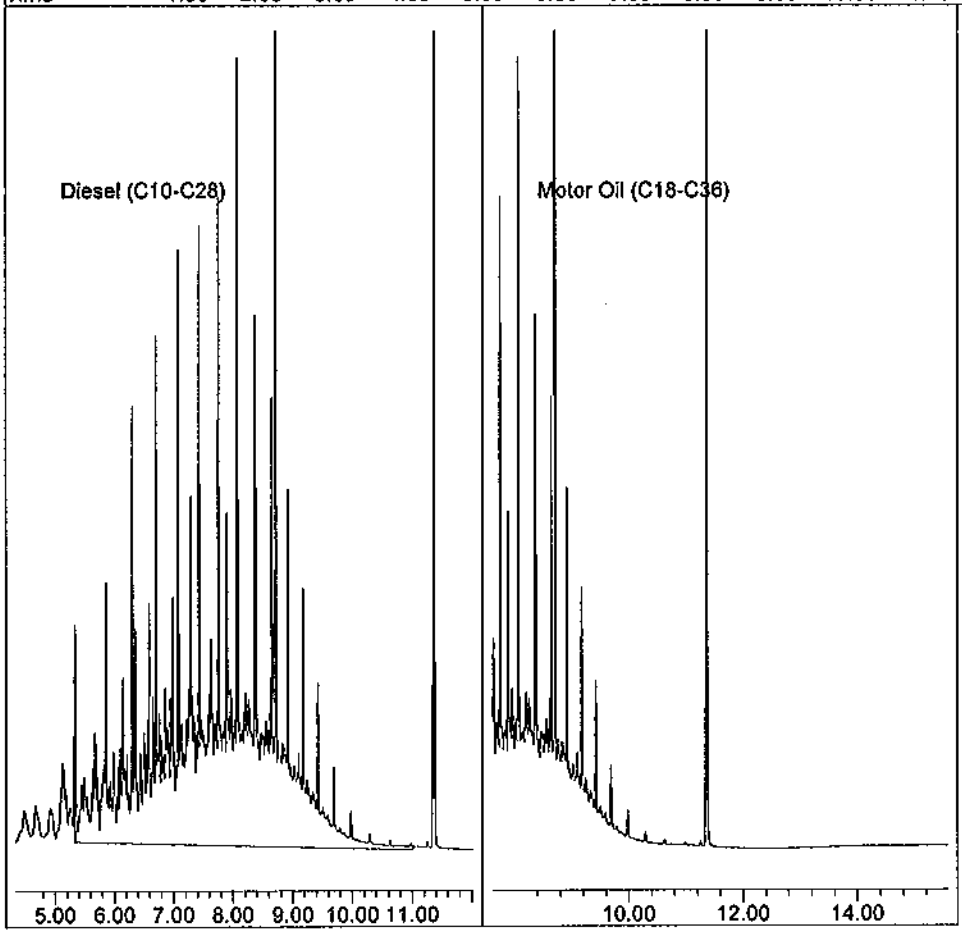
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.71	62212497	35.997 ppb
Surrogate Spike 30.000	Recovery =		119.99%
4) SA Octacosane(S)	11.37	46465994	40.467 ppb
Surrogate Spike 30.000	Recovery =		134.89%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	905729109	788.084 ppb

Data File: G:\APOLLO\DATA\110422\422008.D
Sample : DIESEL 800/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\110422\422009.D Vial: 9
Acq On : 4-22-11 13:26:13 Operator: LAC
Sample : DIESEL 1000/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 28 7:46 2011 Quant Results File: TPHD422.RES

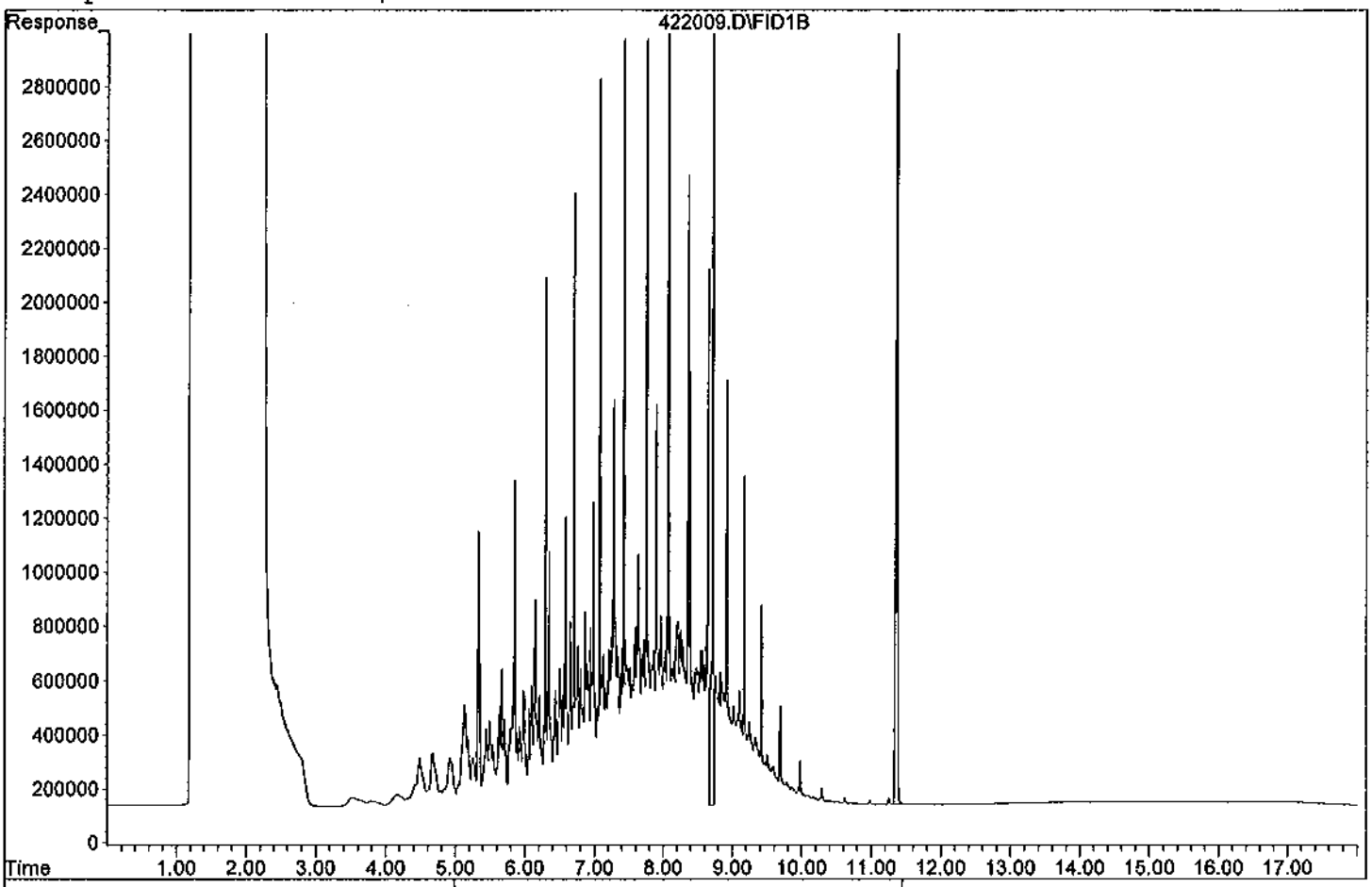
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

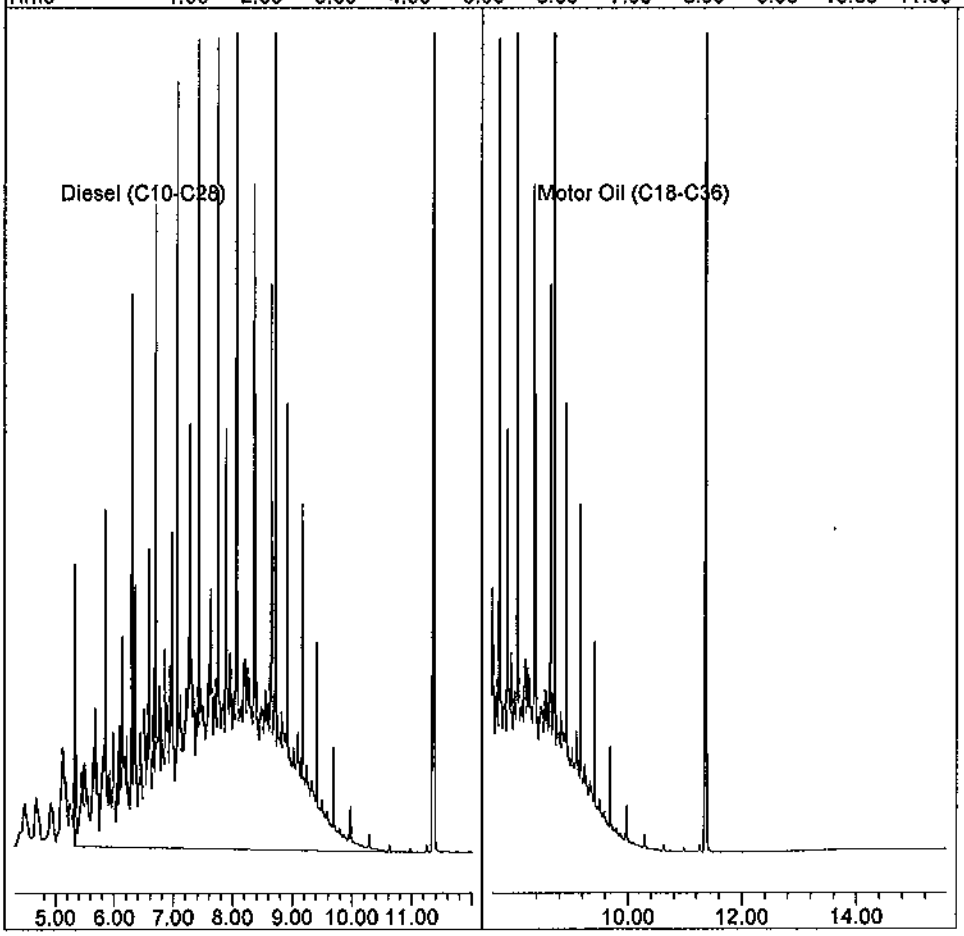
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.72	84570832	48.934 ppb
Surrogate Spike 30.000	Recovery =		163.11%
4) SA Octacosane(S)	11.37	57333895	49.932 ppb
Surrogate Spike 30.000	Recovery =		166.44%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	1119688113	974.252 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\110422\422009.D
Sample : DIESEL 1000/1000





TPH Extractables
TPHD422

Form 7

Second Source Calibration

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

SDG No: 64544
Date Analyzed: 4/22/2011
Instrument: Apollo
Initial Cal. Date: 4/22/2011
Data File: 422016.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	574640	568850	1.0	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			1.0		

Quantitation Report (Not Reviewed)

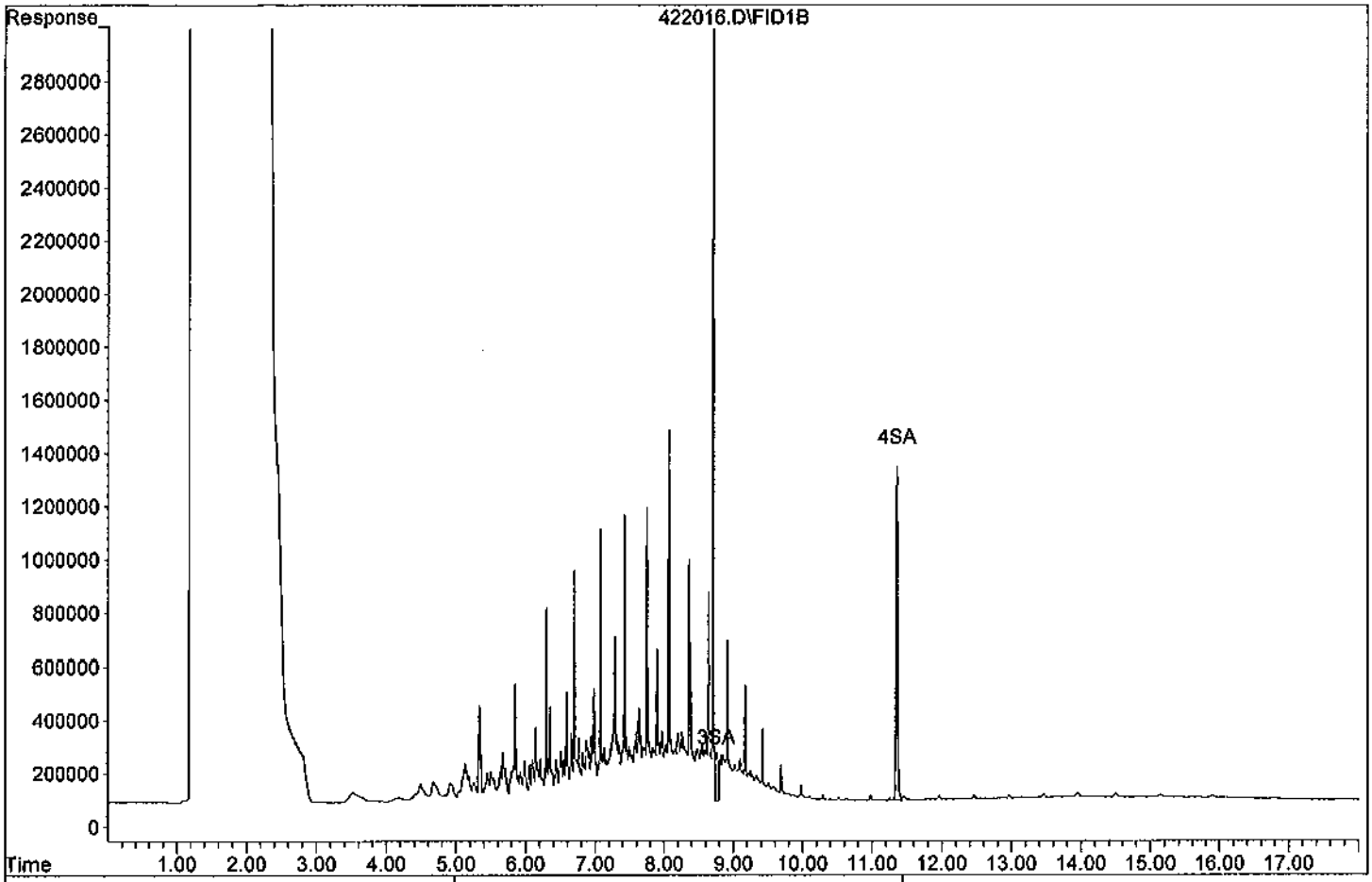
Data File : G:\APOLLO\DATA\110422\422016.D Vial: 16
Acq On : 4-22-11 16:19:58 Operator: LAC
Sample : DIESEL 2ND SRC 400/1000 4/22/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: May 18 10:13 2011 Quant Results File: TPHD422.RES

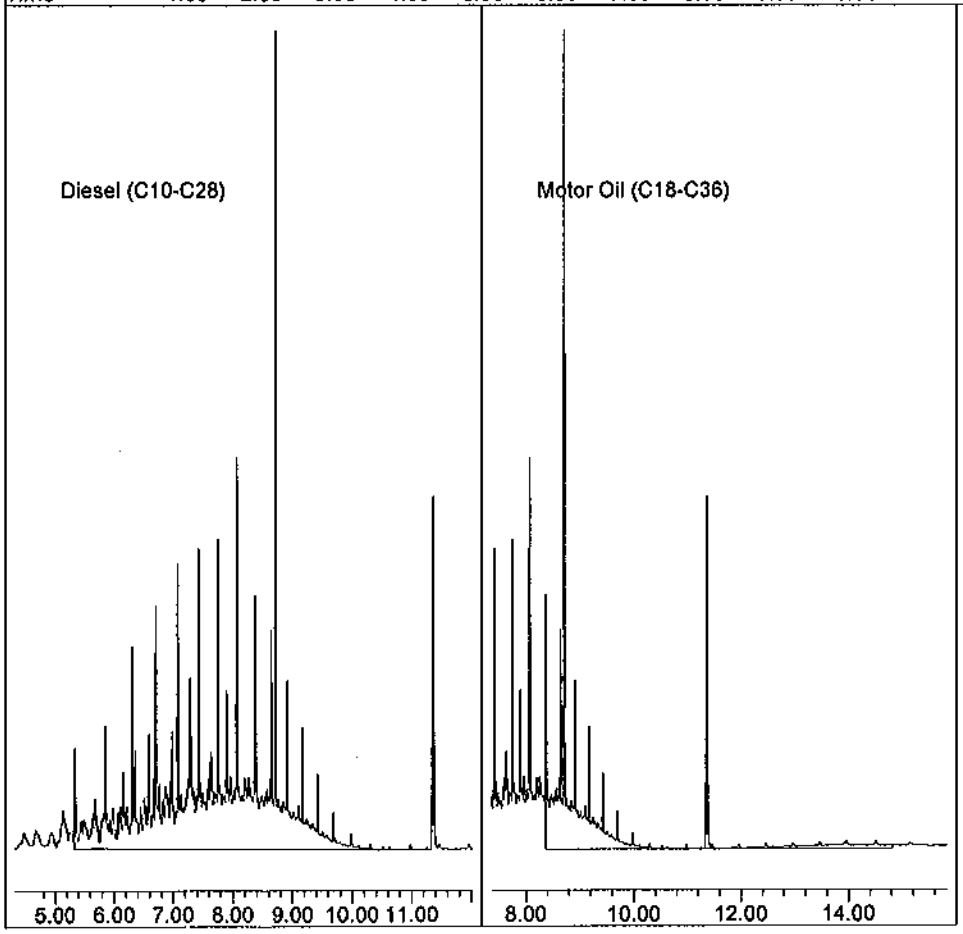
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.76	4851429	2.807 ppb
Surrogate Spike 30.000	Recovery =		9.36%
4) SA Octacosane(S)	11.36	20171039	17.567 ppb
Surrogate Spike 30.000	Recovery =		58.56%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	455080132	395.970 ppb
2) HBTM Motor Oil (C18-C36)	11.60	155327139	204.427 ppb

Data File: G:\APOLLO\DATA\110422\422016.D
Sample : DIESEL 2ND SRC 400/1000 4/22/11





TPH Extractables
TPHD422

Form 7

Continuing Calibration

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

SDG No: 64544
Date Analyzed: 5/11/2011
Instrument: Apollo
Initial Cal. Date: 4/22/2011
Data File: 509114.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	574640	537259	6.5	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			6.5		

Quantitation Report (Not Reviewed)

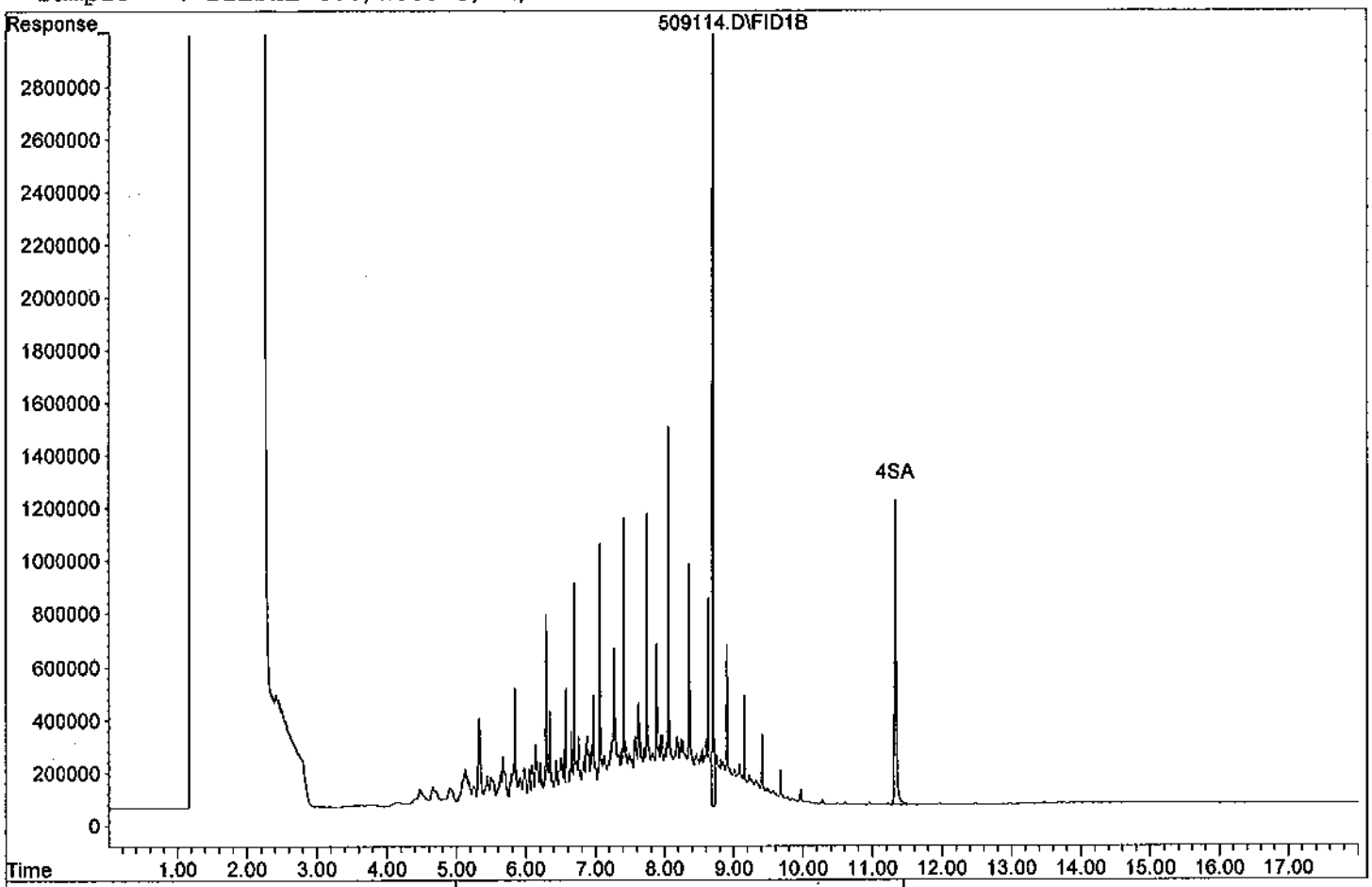
Data File : G:\APOLLO\DATA\110509\509114.D Vial: 14
Acq On : 5-11-11 11:36:40 Operator: LAC
Sample : DIESEL 400/1000 5/11/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: May 27 15:25 2011 Quant Results File: TPHD422.RES

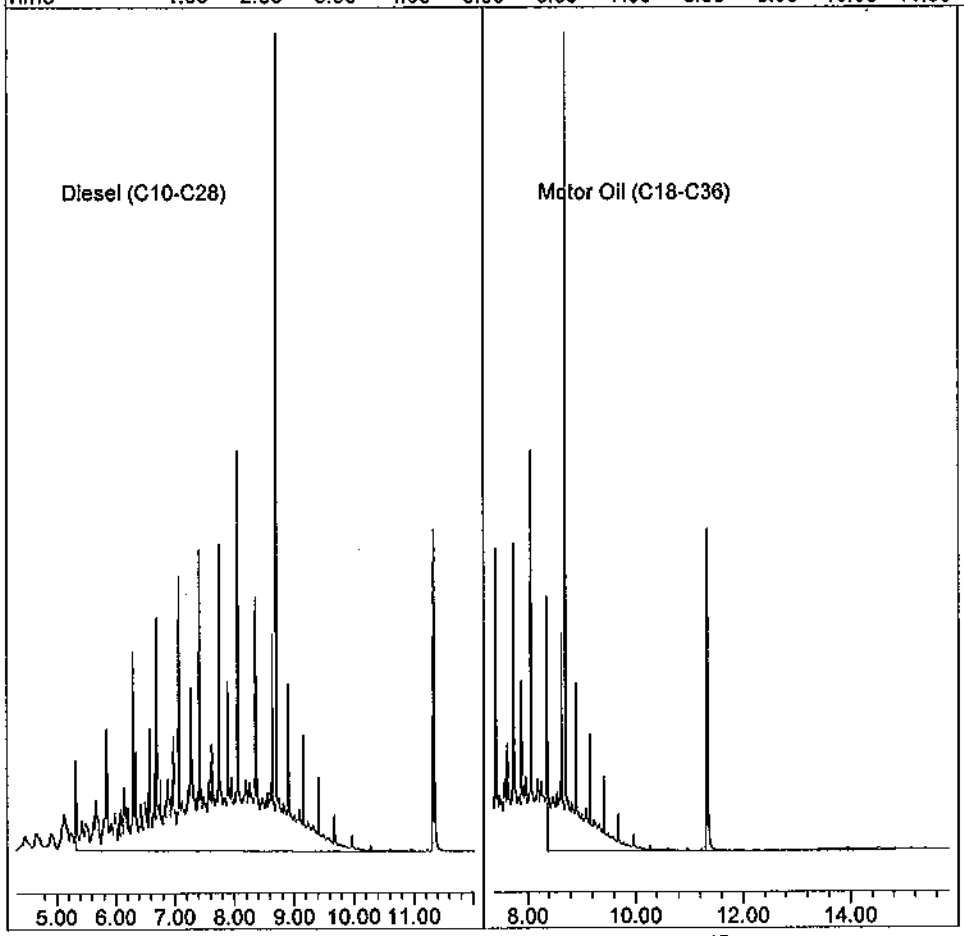
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.70	30497667	17.646 ppb
Surrogate Spike 30.000		Recovery =	58.82%
4) SA Octacosane(S)	11.33	20473735	17.831 ppb
Surrogate Spike 30.000		Recovery =	59.44%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	429807167	373.980 ppb
2) HBTM Motor Oil (C18-C36)	11.60	116851388	151.629 ppb

Data File: G:\APOLLO\DATA\110509\509114.D
Sample : DIESEL 400/1000 5/11/11





TPH Extractables
TPHD422

Form 7

Continuing Calibration

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

SDG No: 64544
Date Analyzed: 5/11/2011
Instrument: Apollo
Initial Cal. Date: 4/22/2011
Data File: 509135.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	574640	550162	4.3	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			4.3		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\110509\509135.D Vial: 35
Acq On : 5-11-11 20:21:44 Operator: LAC
Sample : DIESEL 400/1000 5/11/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: May 27 15:26 2011 Quant Results File: TPHD422.RES

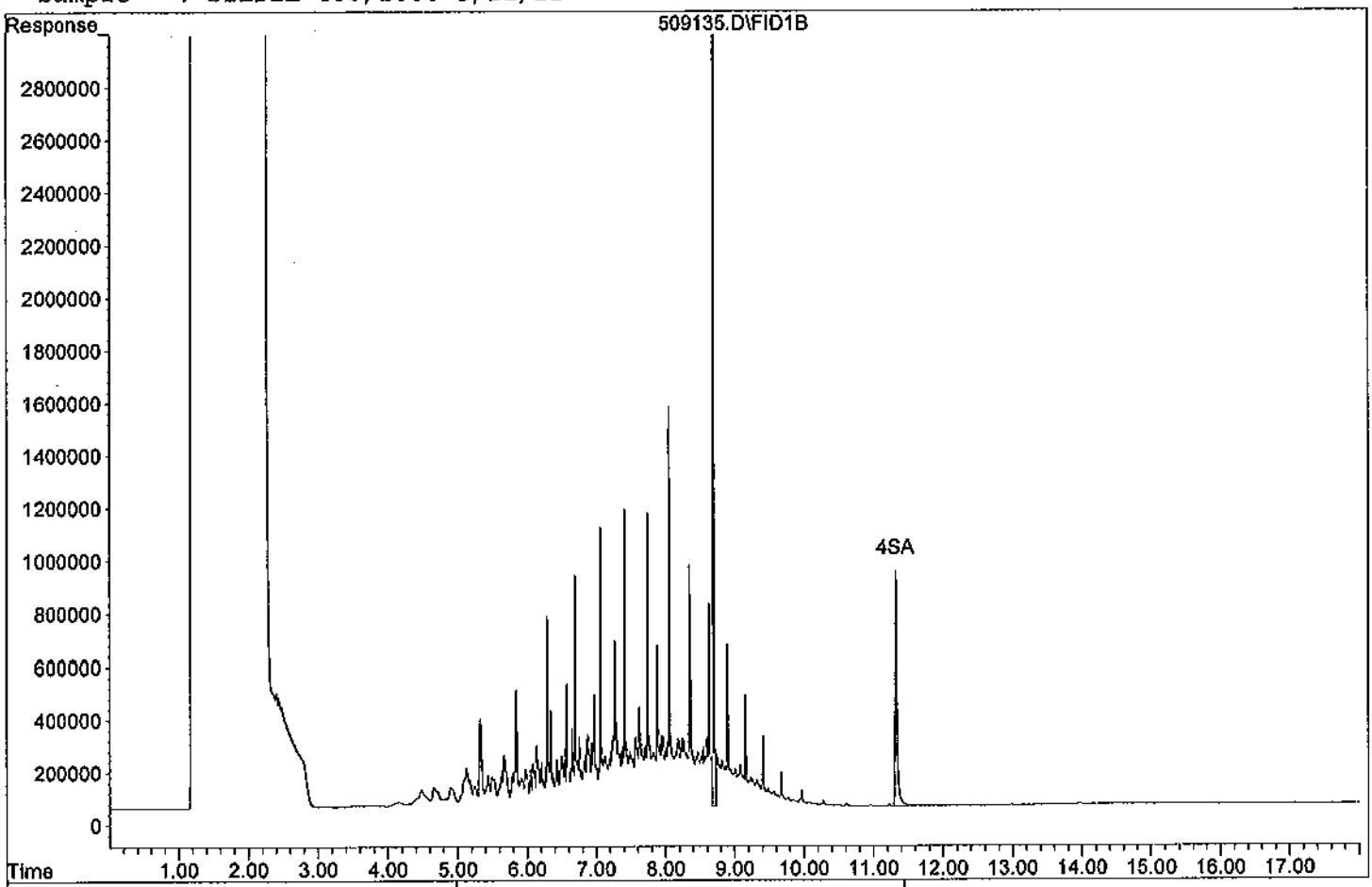
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

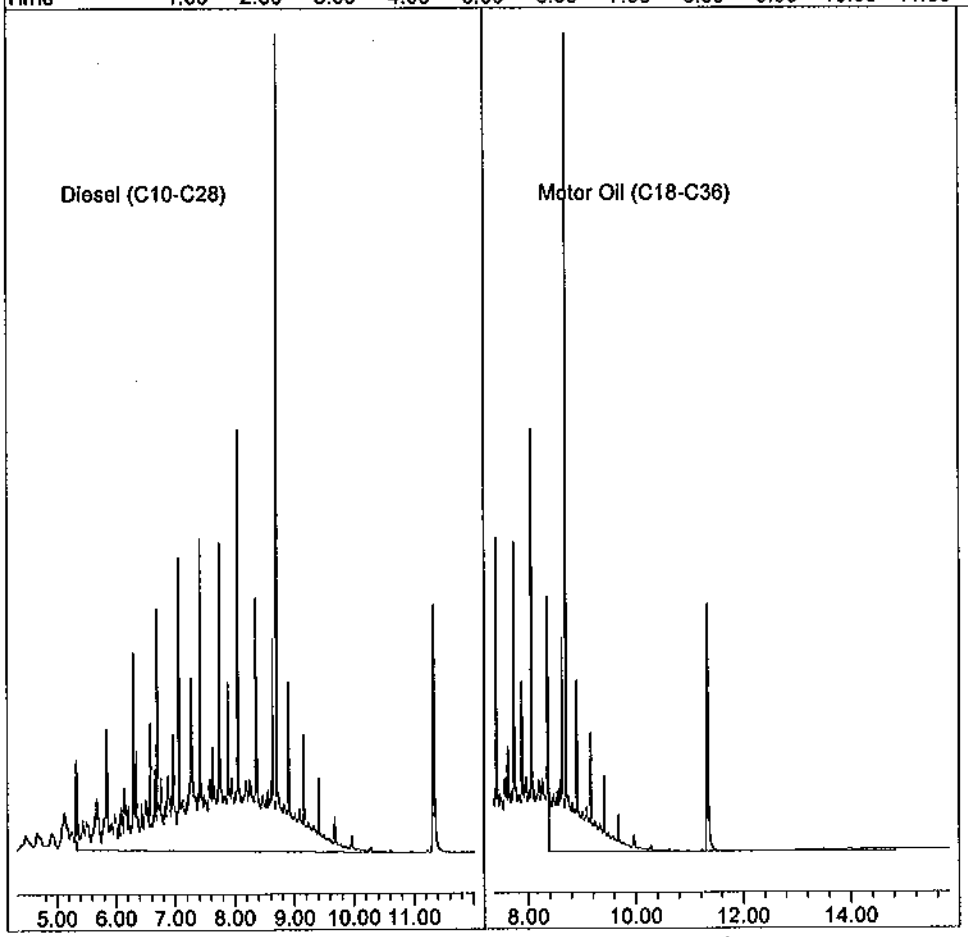
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.70	30801912	17.822 ppb
Surrogate Spike 30.000	Recovery =		59.41%
4) SA Octacosane(S)	11.33	17519560	15.258 ppb
Surrogate Spike 30.000	Recovery =		50.86%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	440129960	382.962 ppb
2) HBTM Motor Oil (C18-C36)	11.60	120716857	156.934 ppb

(f)=RT Delta > 1/2 Window (m)=manual int.
509135.D TPHD422.M Fri May 27 15:26:34 2011 Page 1

Data File: G:\APOLLO\DATA\110509\509135.D
Sample : DIESEL 400/1000 5/11/11





TPH Extractables
TPHD422

Form 7

Continuing Calibration

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

SDG No: 64544
Date Analyzed: 5/16/2011
Instrument: Apollo
Initial Cal. Date: 4/22/2011
Data File: 516007.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	574640	506455	12	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			12.0		

Quantitation Report (Not Reviewed)

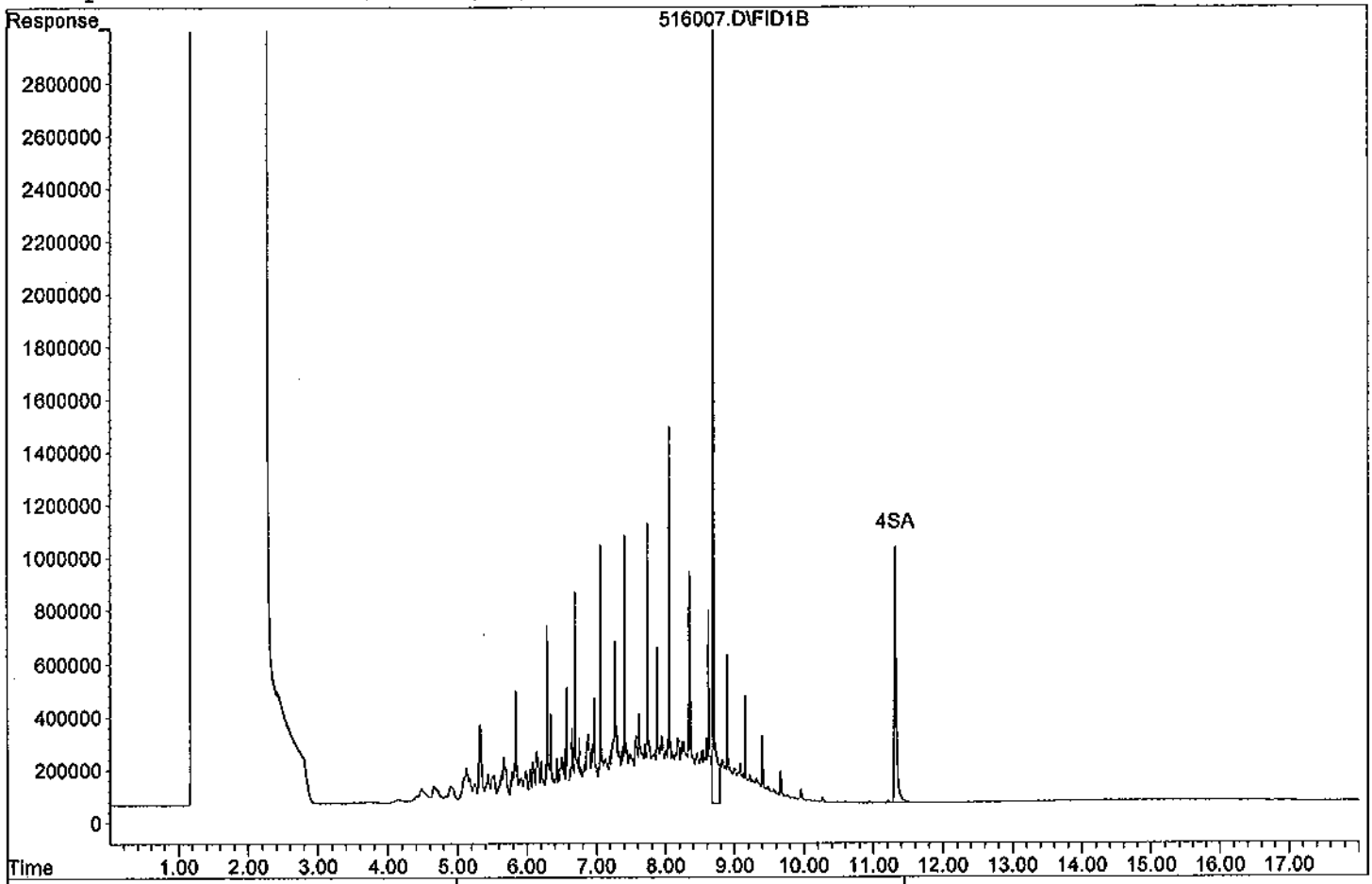
Data File : G:\APOLLO\DATA\110516\516007.D Vial: 7
Acq On : 5-16-11 11:45:36 Operator: LAC
Sample : DIESEL 400/1000 5/13/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: May 27 15:22 2011 Quant Results File: TPHD422.RES

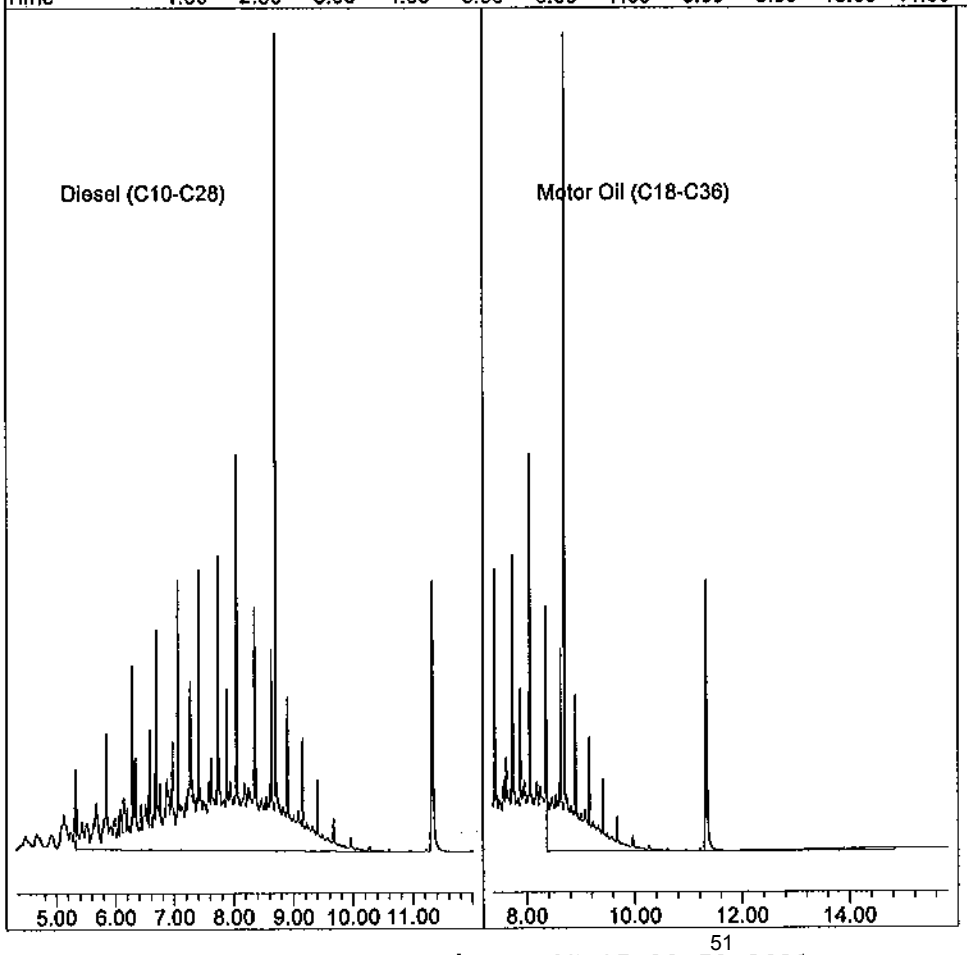
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.69	34981096	20.241 ppb
Surrogate Spike 30.000	Recovery =		67.47%
4) SA Octacosane(S)	11.32	19085018	16.621 ppb
Surrogate Spike 30.000	Recovery =		55.40%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	405163703	352.537 ppb
2) HBTM Motor Oil (C18-C36)	11.60	106910860	137.989 ppb

Data File: G:\APOLLO\DATA\110516\516007.D
Sample : DIESEL 400/1000 5/13/11





TPH Extractables
TPHD422

Form 7

Continuing Calibration

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

SDG No: 64544
Date Analyzed: 5/16/2011
Instrument: Apollo
Initial Cal. Date: 4/22/2011
Data File: 516016.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C28)	574640	575344	0.12	HATM	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			0.1		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\110516\516016.D Vial: 16
Acq On : 5-16-11 17:34:00 Operator: LAC
Sample : DIESEL 600/1000 5/13/11 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: May 17 8:16 2011 Quant Results File: TPHD422.RES

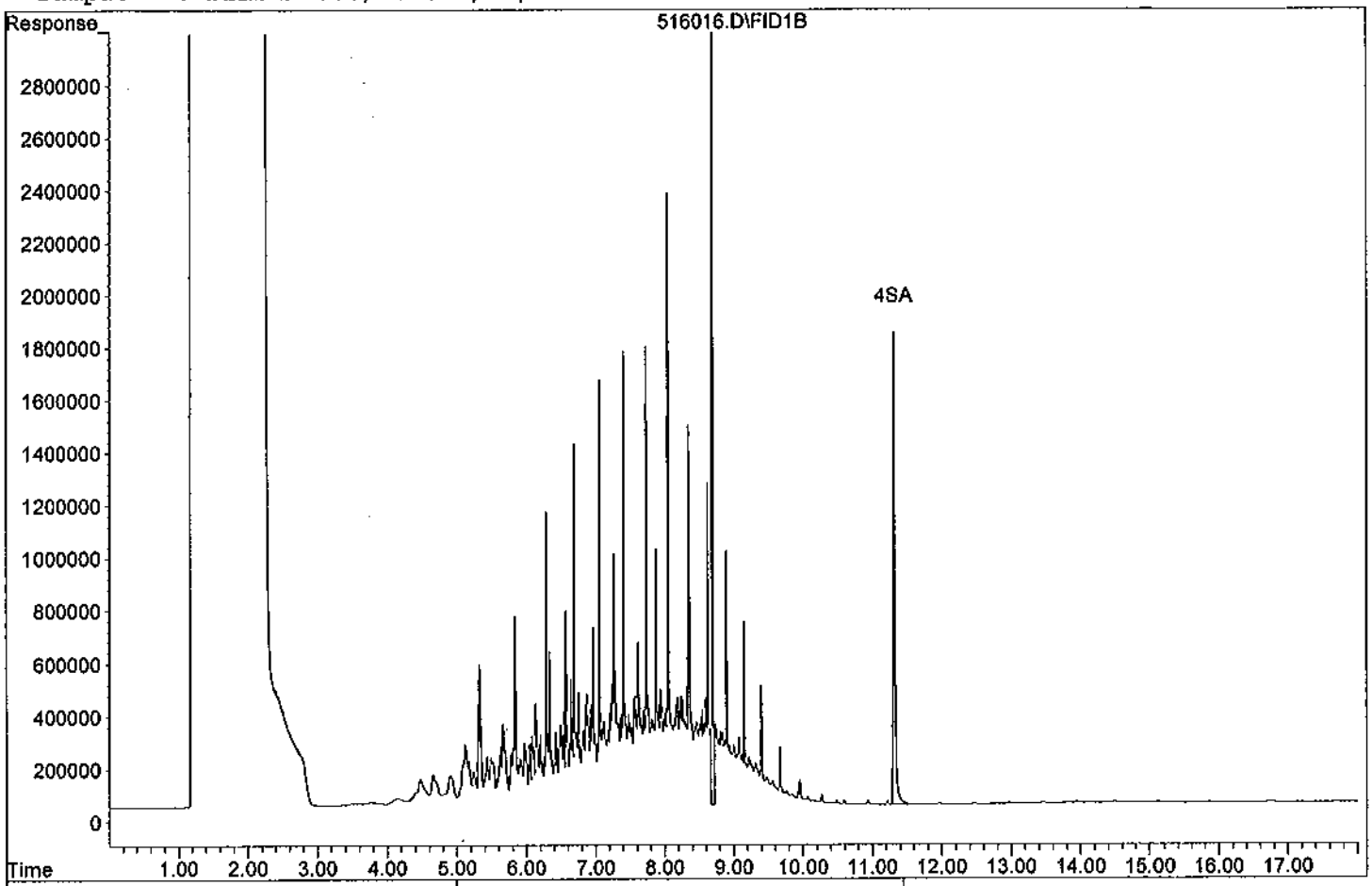
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

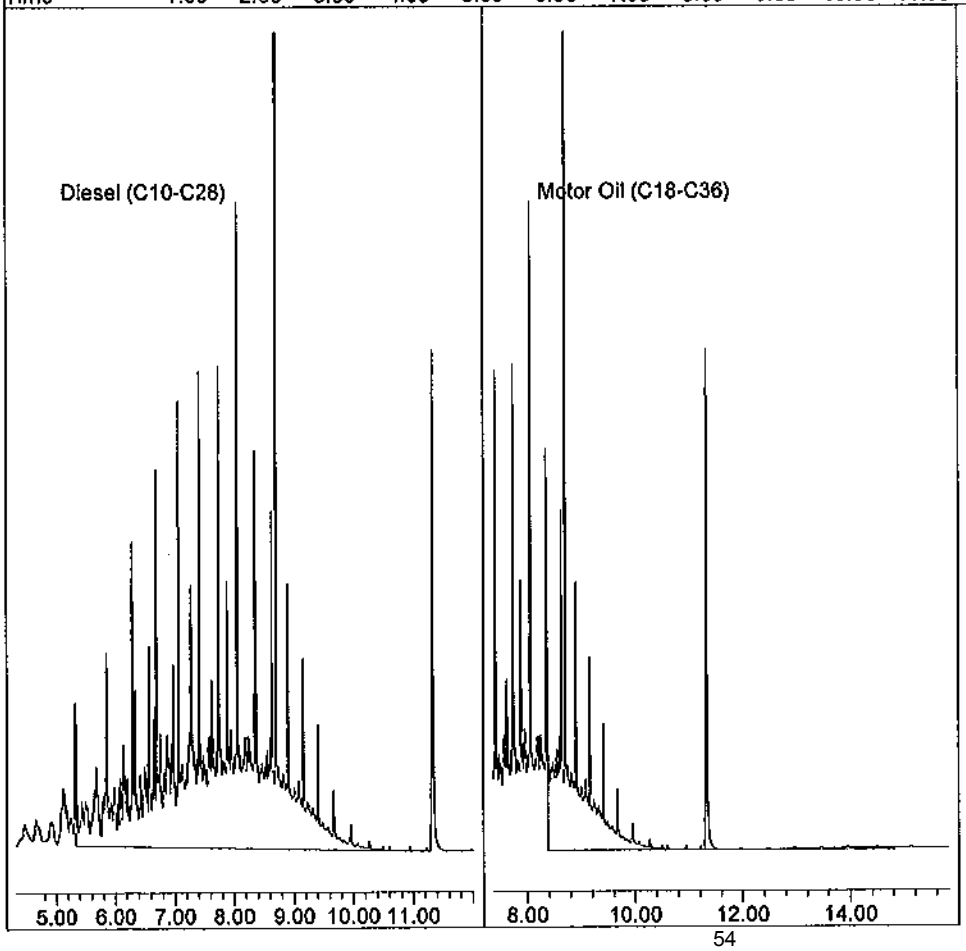
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.69	47999607	27.773 ppb
Surrogate Spike 30.000	Recovery =		92.58%
4) SA Octacosane(S)	11.32	31576350	27.500 ppb
Surrogate Spike 30.000	Recovery =		91.67%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	690412879	600.735 ppb
2) HBTM Motor Oil (C18-C36)	11.60	186798841	247.613 ppb

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

Data File: G:\APOLLO\DATA\110516\516016.D
Sample : DIESEL 600/1000 5/13/11





EPA 8015 Modified
Total Petroleum Hydrocarbons
Raw Data

Method Blank
TPH Diesel Water

Blank Name/QCG: **110503W-36735 - 155099**
Batch ID: #TPETD-110503A

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	5/3/2011	5/11/2011
BLANK	SURROGATE: OCTACOSANE (S)	68.8	28-142			%	5/3/2011	5/11/2011
BLANK	SURROGATE: ORTHO-TERPHEN	59.8	57-132			%	5/3/2011	5/11/2011

Quant Method:TPHD422.M
Run #:509131
Instrument:Apollo
Sequence:110509
Initials:LA

GC SC-Blank-REG MDLs
Printed: 5/27/2011 3:13:16 PM

Quantitation Report (QT Reviewed)

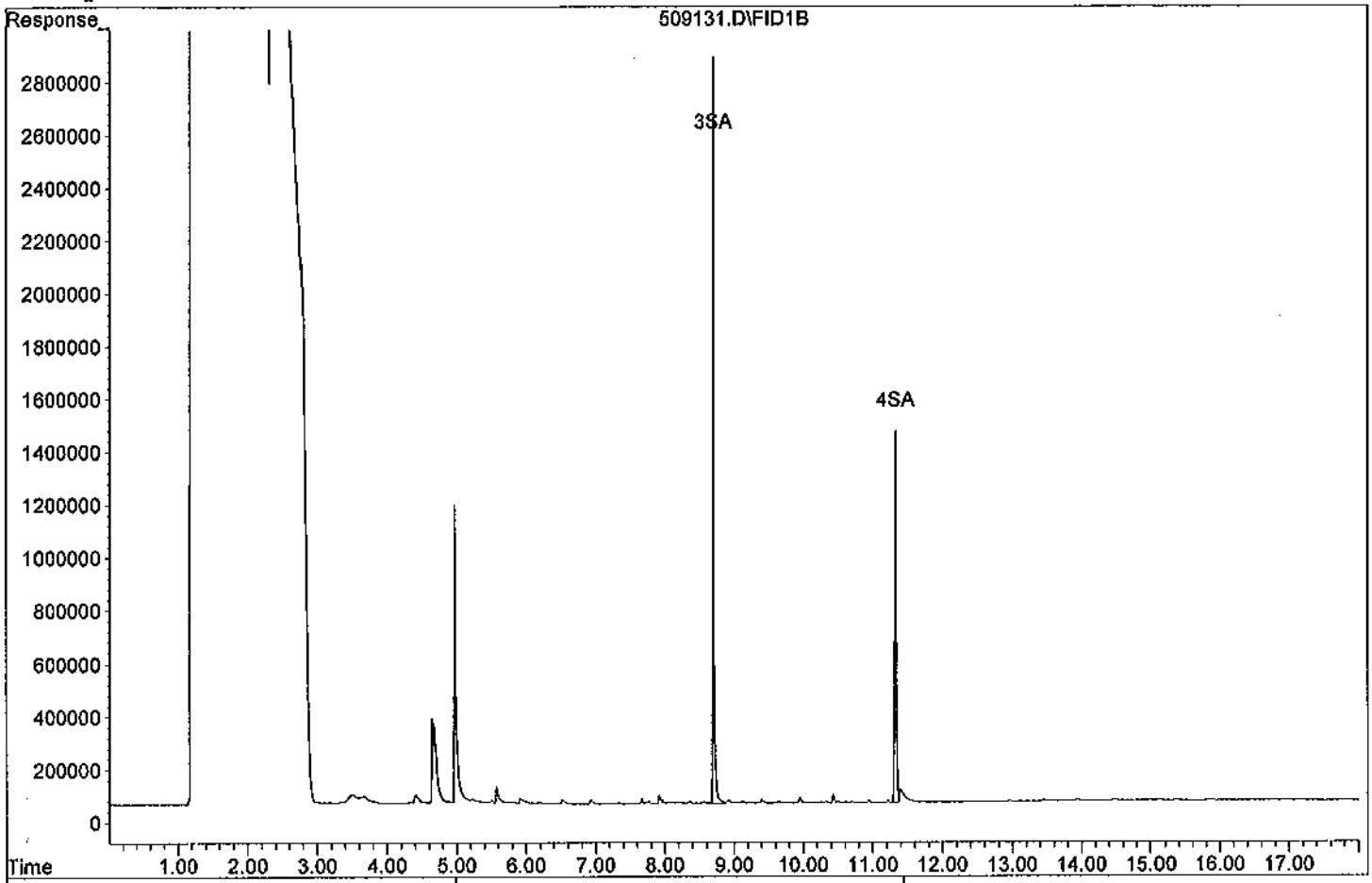
Data File : G:\APOLLO\DATA\110509\509131.D Vial: 31
Acq On : 5-11-11 18:40:58 Operator: LAC
Sample : 110503A BLK 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: May 13 17:01 2011 Quant Results File: TPHD422.RES

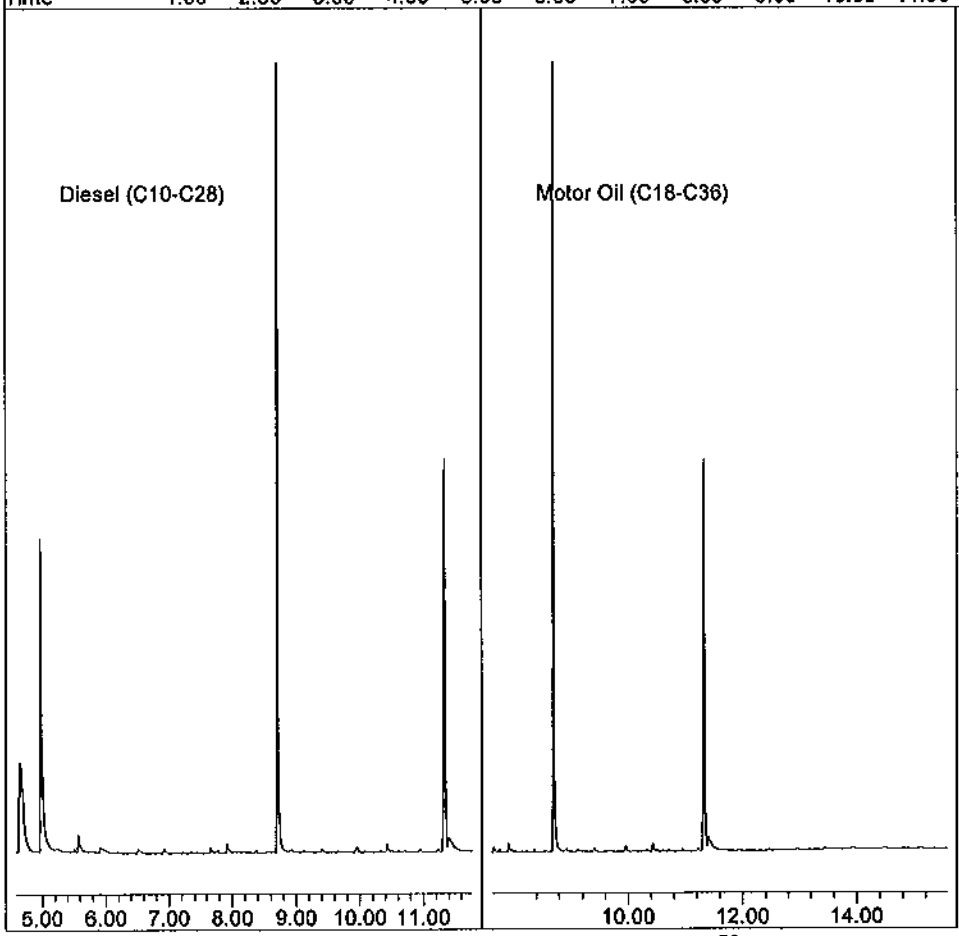
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.70	30985868	89.644 ppb
Surrogate Spike 150.000		Recovery =	59.76%
4) SA Octacosane(S)	11.33	23699373	103.199 ppb
Surrogate Spike 150.000		Recovery =	68.80%
Target Compounds			

Data File: G:\APOLLO\DATA\110509\509131.D
Sample : 110503A BLK 5/1000





Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: **110503W-36735 LCS - 155099**
Batch ID: #TPETD-110503A

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	1380	69.0	61-143
SURROGATE: OCTACOSANE (S)	150	101	67.3	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	112	74.7	57-132

Comments: _____

Primary	SPK
Quant Method :	TPHD422.M
Extraction Date :	5/3/2011
Analysis Date :	5/11/2011
Instrument :	Apollo
Run :	509132
Initials :	LA

Printed: 5/27/2011 3:13:10 PM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\110509\509132.D Vial: 32
Acq On : 5-11-11 19:06:08 Operator: LAC
Sample : 110503A LCS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: May 13 17:01 2011 Quant Results File: TPHD422.RES

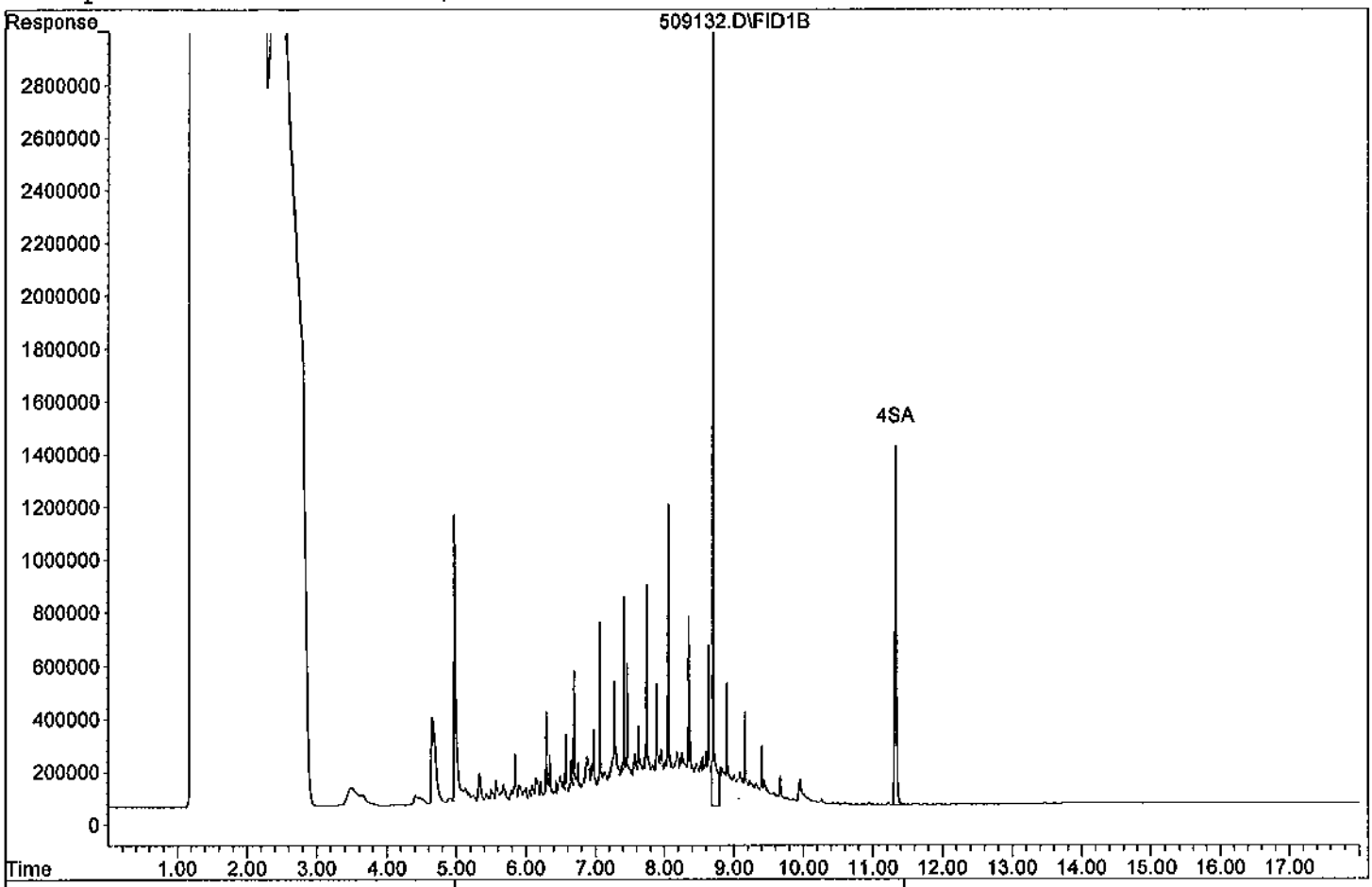
Method : G:\APOLLO\DATA\110516\TPHD422.M (Chemstation Integrator)
Title : Diesel
Last Update : Tue May 10 12:12:53 2011
Response via : Multiple Level Calibration

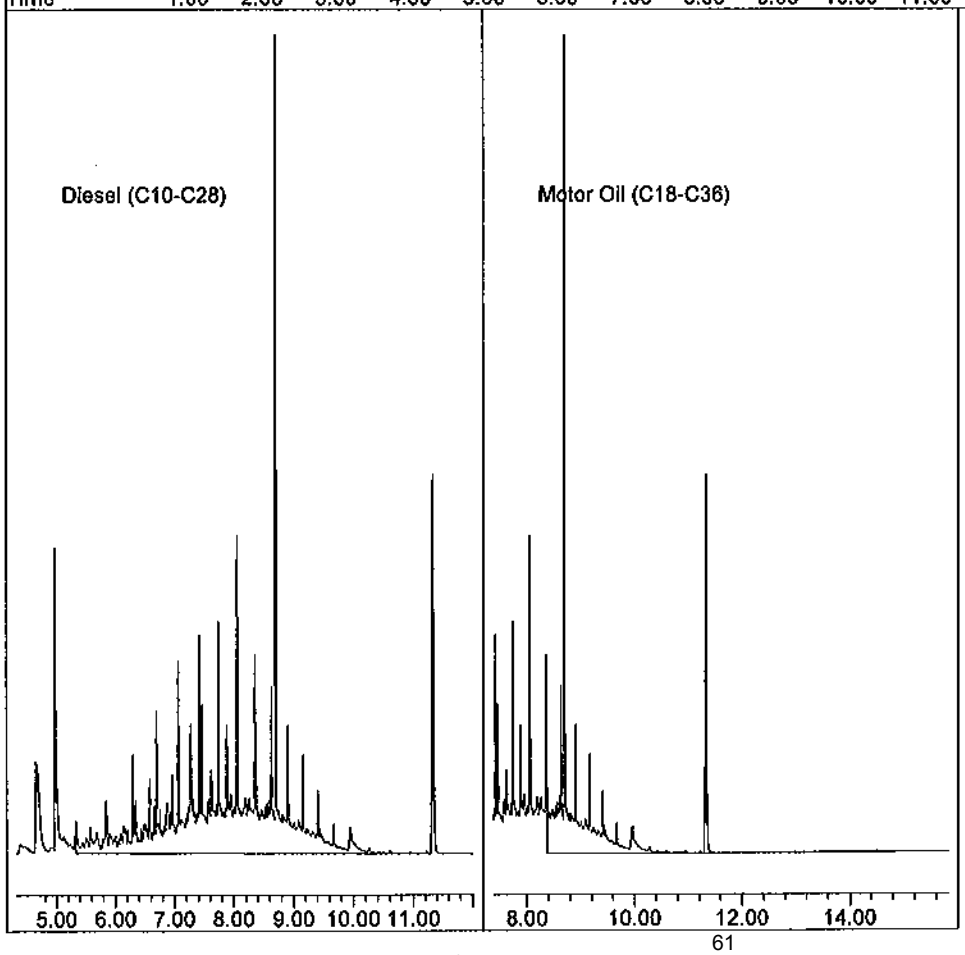
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	8.70	38865828	112.442 ppb
Surrogate Spike 150.000		Recovery =	74.96%
4) SA Octacosane(S)	11.33	23295590	101.441 ppb
Surrogate Spike 150.000		Recovery =	67.63%
Target Compounds			
1) HATM Diesel (C10-C28)	8.17	317758013	1382.422 ppb
2) HBTM Motor Oil (C18-C36)	11.60	96478588	618.366 ppb

Algorithm Check: $\frac{(317758013)(5)}{(574640)(2)} = 1382.422095$

Data File: G:\APOLLO\DATA\110509\509132.D
Sample : 110503A LCS-1 5/1000





STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE / INITIALS
							041
	THC SURROGATE * GAVE TO EXTRACTION						
O-TERPHENYL	600ng/µl	0251	N/A	25mL	600ng/µl	N/A	
OCTACOSANE	CAT: 110316-05 LOT: 164819-28057 OP: 3/7/11 EX: 3/7/12 AND LOT: 161689-27682 OP: 3/7/11 EX: 3/7/12						3/7/11 EX: 3/7/12
	DIESEL STANDARD						
DIESEL FUEL #2	50,000 ng/µl	0251	1000µl	50mL	1000ng/µl	MC # 110510F	3/7/11 EX: 9/7/11
O-TERPHENYL	600ng/µl	0251	4170µl		50ng/µl		
OCTACOSANE	CAT: 110316-05 LOT: 164819-28058 OP: 3/2/10 EX: 3/2/11						
	MOTOR OIL STANDARD						
MOTOR OIL	50,000ng/µl	0251	1000µl	50mL	1000ng/µl	MC # 110510F	3/7/11 EX: 9/7/11

o2si
Diesel Fuel #2 Composite
Lot #: 156524 - 27196
Rec: 9/10/10 MFR exp. 04/04/14

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
Cat. No: 011598-03 Exp: 4/4/2014
Lot No: 156524 Storage: </= -10 Degrees C
Solvent: Methylene
Option For Research Use Only
Opened: 3/7/11
EX: 3/7/12

3/7/11

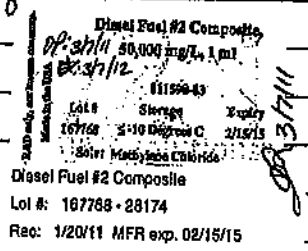
o2si
Motor Oil Composite, 50,000 mg/L, 1 ml
Cat No: 116590-03 Storage: </= -10 Degrees C
Made in USA Lot No: 161898 Solvent: Methylene Chloride
Exp: 7/23/2013 OP: 3/7/11
Date Opened: Motor oil composite EX: 3/7/12
Lot #: 161898 - 27567
Rec: 10/18/10 MFR exp. 07/23/13

3/7/11

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	VOLUME	CONC	LOT #	INITIALS
042							

DIESEL 2ND SOURCE STD.

DIESEL FUEL #2	50,000ug/ml	0251	1000 ul	50mL	1000ug/ml	MC #110510F	3/7/11 ex: 9/7/11
OTERPHENYL OXYFLUORFEN	600ug/ml	0251	4170 ul		50ug/ml		

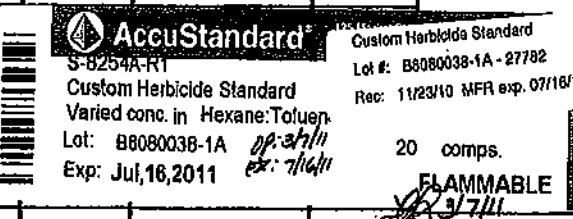


OTERPHENYL OXYFLUORFEN
CAT: 110316-05
LOT: 164819-28058
OP: 3/2/11
EX: 3/2/12

HERB SPIKE

Analytes:	Conc. In mix (ug/ml)	Conc. In Stock (ug/ml)	Aliqoute (uL)	Final Vol. STOCK SRC (ml)	Final Vol. Solvent (mL)
Dalapon	6.4	320	1000		50
3,5 Dichlorobenzoic Acid	0.64	32		Source: Accustd	MTBE
4-Nitrophenol	1.6	80		Cat#: S-8254A-R1	Lot #
2,4-DCAA (S)	3.2	160		LOT#: B8080038-1A	50112
Dicamba	0.64	32		-28959	
MCPP	640	32000		OPEN: 1/28/11	
MCPA	640	32000		EXP: 7/16/11	
2,4-DP	3.2	160			
2,4-D	3.2	160			
DNOC	1.28	64			
PCP	0.64	32			
2,4,5-TP	0.64	32			
Chloramben	3.2	160			
2,4,5-T	0.64	32			
Dinoseb	1.6	80			
2,4-DB	6.4	320			
Bentazon	3.2	160			
Picloram	0.64	32			
Dacthal	0.64	32			
Acifluorfen	1.6	80			

3/7/11 ex: 6/7/11



HERB 20/1000 CCV LEVEL 4

SEE PB 026.	VARIOUS HERB STD.	200ul	1ml	200ug/ml	MTBE #50112	3/7/11 ex: 8/9/11
	PREP: 2/9/11 ex: 8/9/11					

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT #	DATE / INITIALS
							055
	THC SURROGATE			# GIVE TO EXTRACTION TL OF			
O-TERPHENYL CRACSANE	600ug/ml	D251 CAT: 110316-05 LOT: (164819) 28492 & 28493 LOT: (170258) 28496 & 28498 LOT: (170258) 28497 & 28499-501 ALL OPEN: 3/25/11 EX: 6/25/11	N/A	25ML	600ug/ml	N/A	3/25/11 EX: 3/25
	Herb 200/1000 CCV						
various analytes see pg 54.	various see pg. 054	Herb Std. prep: 3/22/11 EX: 9/22/11	200ml	1ML	various	MTBE #50112	3/25/11 EX: 9/22/11
	DIESEL 400 & 600/1000 CCV						
DIESEL FUEL #2	1000ug/ml	DIESEL STD PREP: 3/7/11 EX: 9/7/11	400ml 600ml	1ML 1ML	400ug/ml 600ug/ml	MC # 010611B	3/25/11 EX: ~~9/7/11~~ 6/25/11 3/25/11
	MOTOR OIL 400 & 600/1000ug/ml CCV						
MOTOR OIL	1000ug/ml	MOTOR OIL STD. prep: 3/7/11 EX: 9/7/11	400ml 600ml	1ML 1ML	400ug/ml 600ug/ml	MC # 010611B	3/25/11 EX: 6/25/11
	EE SOIL I (LEVEL 3) CCV						
VARIOUS EE BK 34 pg. 93	1ug/ml	EE SOIL I STD. prep: 11/10/10 EX: 4/10/11	100ml	1ML	0.1ug/ml	HEXANE # 082610B	3/25/11 EX: 4/10/11
	THC SURROGATE			# GIVE TO EXTRACTIONS			
O-TERPHENYL CRACSANE	600ug/ml	D251 CAT: 110316-05 LOT: 170258-28494 & 28495 DP: 3/25/11 EX: 3/25/12	N/A	25ML	600ug/ml	N/A	3/25/11 EX: 3/25/12

THC

STANDARD 082

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

PYRETHROIDS STANDARD

STD / COMPOUND	INIT CONC	SRC DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT
Bifenthrin	100 µg/ml	O2SI	250 µL	25 mL	1 µg/ml	Acetone
Cyfluthrin		Part: 83679				#120610C
Cypermenthrin		Lot: 050509-28768				
Esfenvalerate		Op: 4/26/11				
Fenvalerate		Exp: 4/26/12				
Lambda-cyhalothrin						
permithrin, mixed isomers						
(48% cis, 53% trans)						
Dicofol	100 µg/ml	Ultra	250 µL		1 µg/ml	
		Pst-391m100A01				
		CG-0033A				
		Op: 12/20/10				
		Exp: 12/20/11				
Fenpropathrin	100 µg/ml	O2SI	250 µL		1 µg/ml	
		Cal: 031116-03				
		Lot: 157913-28401				
		Op: 4/12/11				
		Exp: 4/1/12				

4/26/11
Ex: 10/26/11

Mineral Spirits Standard

Compound	Initial Conc.	Stock Source	Aliquot	Final Vol.	Final Conc	Solvent
Mineral	50,000 µg/mL	Restek	200 µL	10 mL	1000 µg/mL	MC
Spirits		Cat:31260				#0106118
		Lot: A072377-28769				
		Op: 4/27/11				
		Exp: 4/27/12				

4/27/11
Ex: 10/27/11

Mineral Spirits Spike

Compound	Initial Conc.	Stock Source	Aliquot	Final Vol.	Final Conc	Solvent
Mineral	50,000 µg/mL	Restek	1000 µL	25 mL	2000 µg/mL	MC
Spirits		Cat:31260				#0106118
		Lot: A072377-28769				
		Op: 4/27/11				
		Exp: 4/27/12				

4/27/11
Ex: 7/27/11

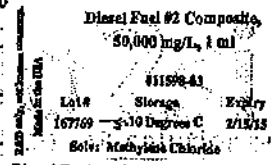
RES Cat# 31261
Mineral Spirits op: 4/27/11
Lot #: A072377 - 28769 Ex: 4/27/12
Rec: 4/25/11 MFR exp. 02/28/17
Mineral Spirits standard 50000 ug/mL each in Methylene Chloride
Lot# A072377 Exp. Date: 02/2017 Store: Room Temperature
Restek Corporation - 110 Benner Circle - Bellefonte, PA 16823

DIESEL SPIKE

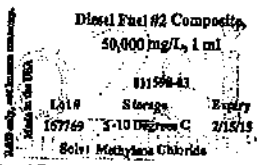
DIESEL FUEL #2

50,000µg/ml | 025I | 2000ml | 50mL | 2000µg/ml | MC | # 0106113

4/28/11
Ex: 7/28/11



Diesel Fuel #2 Composite
Lot #: 167769 - 28256
Rec: 2/16/11 MFR exp. 02/15/1



Diesel Fuel #2 Composite
Lot #: 167769 - 28257
Rec: 2/16/11 MFR exp. 02/15/15

4/28/11

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

093

5/14/11

DIESEL CCV 400ug/ml							
STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#	5/13/11
DIESEL STD.	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC	EX. 11/9/11
		05/09/11	11/09/11			010611B	

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
		05/09/11	11/09/11			010611B

5/13/11

DIESEL CCV 600ug/ml						
STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
DIESEL STD.	1000UG/ML	O2SI	600µL	1 mL	600 µg/ml	MC
		05/09/11	11/09/11			010611B

5/13/11
EX: 11/9/11

MOTOR OIL CCV 600UG/ML						
STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
MOTOR OIL STD	1000UG/ML	O2SI	600µL	1mL	600 UG/ML	MC
		05/09/11	11/09/11			010611B

5/13/11

Mineral Spirits Standard						
Compound	Initial Conc.	Stock Source	Aliquot	Final Vol.	Final Conc	Solvent
Mineral	50,000 µg/mL	Restek	500 µL	25 mL	1000 µg/mL	MC
Spirits		Cat:31260				#010611B
		Lot: A072377-28770				
		Op: 5/13/11				
		Exp: 5/13/12				
O-terphenyl	600 µg/mL	O2SI	2085 µL		50 µg/mL	
Octacosane		Cal: 110316-05				
		Lot: 170258-28499				
		Op: 3/25/11				
		Exp: 3/25/12				

5/13/11
EX: 11/13/11

5/16/11

MINERAL SPIRITS CURVE											
SUPPLIER	ID#	[mg/mL]	LOT #	DATE	EXP. DATE	mL	mL	mL	mL	mL	mL
	MINERAL SP STD	1000		05/13/11	11/13/11	10	50	200	400	600	800
VWR	MC		#010611B			990	950	800	600	400	200
					Final VOL.	1000	1000	1000	1000	1000	1000

5/16/11
EX: 11/13/11

5/16/11

OP/FAM CURVE													
PREP:	05/16/11	EXP:	10/29/11			IB	IA	1	2	3	4	5	6
SUPPLIER	ID#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	µL
	OP/F STD	6		05/13/11	11/13/11	DF2 OF 2	2	10	50	200	500	700	1000
VWR	Hexane		010711A			500	998	990	950	800	500	300	NA
					Final VOL.	1000	1000	1000	1000	1000	1000	1000	1000

5/16/11
EX: 11/13/11

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

077

HERB SECOND SOURCE

Analytes:	Conc. In mix (ug/ml)	Conc. In Stock (ug/ml)	Aliquot (uL)	STOCK SOURCE O2SI	Final Vol. Solvent (ml)
Dalapon	12.8	64	1000		5
3,5 Dichlorobenzoic Acid	1.28	6.4		CAT: 132070-01	MTBE
4-Nitrophenol	3.2	16		LOT: 163603-27180	Lot #
2,4-DCAA (S)	6.4	32		OP: 4/21/11	50112
Dicamba	1.28	6.4		EXP: 4/21/12	
MCPP	1280	6400			
MCPA	1280	6400			
2,4-DP	6.4	32			
2,4-D	6.4	32			
DNOC	2.56	12.8			
PCP	1.28	6.4			
2,4,5-TP	1.28	6.4			
Chloramben	6.4	32			
2,4,5-T	1.28	6.4			
Dinoseb	3.2	16			
2,4-DB	12.8	64			
Bentazon	6.4	32			
Picloram	1.28	6.4			
Dacthal	1.28	6.4			
Acifluorfen	3.2	16			

Custom Herbicide Mix (Second Source), Underivatized Acids, EPA
132070-01-SS
Lot # 165787 | Storage ≤ 6 Degrees C | Expiry 11/9/13
Solv: Tol./Hex:MTBE
Custom Herbicide Mix (SS)
Lot #: 165787 - 27776
Rec: 11/23/10 MFR exp. 11/09/13
OP: 4/21/11 EX: 4/21/12

4/21/11 EX: 10/21/11

**1 ml ampule is derivitized by extraction and brought up to 5ml in MTBE

DIESEL CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
DIESEL	1000		03/07/11	09/07/11	10	100	400	600	800	1000
MC		010611B			990	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

4/22/11 EX: 9/7/11

MOTOR OIL CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		03/07/11	09/07/11	50	100	400	600	800	1000
MC		010611B			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 STD.	1000µg/ml	O2SI	400µL	1 mL	400 µg/mL	MC
Lot:149530	Prep:	03/07/11				010611B
-25265	Exp:	09/07/11				

PREP DATE:	04/22/11					
OP 2ND SOURCE						
EXP:	04/23/11					
SUPPLIER	IO#	(µg/mL)	LOT #	DATE	EXP. DATE	µL
	OP 2ND SRC	5		04/13/11	04/23/11	500
VWR	HEXANE		010711A			500
					Final VOL.	1000

4/22/11 EX: 4/23/11

OP/FAM CURVE													
PREP:	04/22/11	EXP:	10/13/11			IB	IA	1	2	3	4	5	6
SUPPLIER	IO#	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	µL
	OP/F STD	5		04/13/11	10/13/11	OF2 OF 2	2	10	50	200	500	700	1000
VWR	Hexane		010711A			500	998	990	950	800	500	300	NA
					Final VOL.	1000	1000	1000	1000	1000	1000	1000	1000

4/22/11 EX: 10/13/11

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	110503A	Extraction Method	SEP011	Units	mL

Spiked ID 1	Diesel Spike 4/28/11 BX 7/28/11		Surrogate ID 1	THC Surrogate 164819-28492	
Spiked ID 2	Motor Oil Spike 3/31/11 BX 6/30/11		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	YES	
Spiked ID 7			Ext. Start Time:		
Spiked ID 8			Ext. End Time:		
			GC Requires Extract By:	05/13/11 0:00	

pH1			W Bath Temp	80 °C
pH2				
pH3				

Spiked By: DL **Date** 05/03/11 **Witnessed By:** GH **Date** 05/03/11

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	110503A Blk				0.250	1	1000	5	7	05/03/11 13:40	
2	110503A LCS-1		1	1	0.250	1	1000	5	7	05/03/11 13:40	
3	110503A LCS-2		1	2	0.250	1	1000	5	7	05/03/11 13:40	
4	AY36507	AY36507W02			0.250	1	1050	5	7	05/03/11 13:40	64509 -- Amber Liter
5	AY36557	AY36557W05			0.250	1	1000	5	7	05/03/11 13:40	64520 -- Amber Liter
6	AY36558	AY36558W06			0.250	1	1050	5	7	05/03/11 13:40	64520 -- Amber Liter
7	AY36559	AY36559W04			0.250	1	1000	5	7	05/03/11 13:40	64520 -- Amber Liter
8	AY36560	AY36560W06			0.250	1	1000	5	7	05/03/11 13:40	64520 -- Amber Liter
9	AY36561 MS-1	AY36561W14	1	1	0.250	1	1025	5	7	05/03/11 13:40	64520 -- Amber Liter
10	AY36561 MSD-1	AY36561W15	1	1	0.250	1	1025	5	7	05/03/11 13:40	64520 -- Amber Liter
11	AY36561 MS-2	AY36561W12	1	2	0.250	1	1025	5	7	05/03/11 13:40	64520 -- VOAs - NP
12	AY36561 MSD-2	AY36561W11	1	2	0.250	1	1000	5	7	05/03/11 13:40	64520 -- VOAs - NP
13	AY36561	AY36561W21			0.250	1	1025	5	7	05/03/11 13:40	64520 -- Amber Liter
14	AY36562	AY36562W05			0.250	1	1000	5	7	05/03/11 13:40	64520 -- Amber Liter
15	AY36698	AY36698W04			0.250	1	1000	5	7	05/03/11 13:40	64540 -- Amber Liter
16	AY36699	AY36699W04			0.250	1	1000	5	7	05/03/11 13:40	64540 -- Amber Liter
17	AY36717	AY36717W05			0.250	1	1050	5	7	05/03/11 13:40	64536 -- Amber Liter
18	AY36735	AY36735W07			0.250	1	1025	5	7	05/03/11 13:40	64544 2-WEEK RUSH -- Amber Liter

RJS 5/3/11

Solvent and Lot#	
MC	VWR 112910A
Na2SO4	0440C237

Extraction COC Transfer	
Extraction lab employee Initials	RJS
GC analyst's initials	
Date	5/4/11
Time	16:20
Refrigerator	HOBART

	Technician's Initials
Scanned By	JL
Sample Preparation	JL
Extraction	JL
Concentration	JL/CC

Modified	05/03/11 9:36:19 AM

Reviewed By: RIS 68 **Date** 05/03/11

Injection Log

Directory: G:\APOLLO\DATA\110422\110509\110516

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	422004.D	1	DIESEL 10/1000 4/22/11	Mix(A)	4-22-11 11:20:08
2	5	422005.D	1	DIESEL 100/1000	Mix(A)	4-22-11 11:45:11
3	6	422006.D	1	DIESEL 400/1000	Mix(A)	4-22-11 12:10:19
4	7	422007.D	1	DIESEL 600/1000	Mix(A)	4-22-11 12:35:32
5	8	422008.D	1	DIESEL 800/1000	Mix(A)	4-22-11 13:00:52
6	9	422009.D	1	DIESEL 1000/1000	Mix(A)	4-22-11 13:26:13
7	16	422016.D	1	DIESEL 2ND SRC 400/1000 4/22/11	Mix(A)	4-22-11 16:19:58
8	14	509114.D	1	DIESEL 400/1000 5/11/11	Mix(A)	5-11-11 11:36:40
9	31	509131.D	5	110503A BLK 5/1000	Water	5-11-11 18:40:58
10	32	509132.D	5	110503A LCS-1 5/1000	Water	5-11-11 19:06:08
11	35	509135.D	1	DIESEL 400/1000 5/11/11	Mix(A)	5-11-11 20:21:44
12	7	516007.D	1	DIESEL 400/1000 5/13/11	Mix(A)	5-16-11 11:45:36
13	15	516015.D	4.87805	AY36735W07 5/1025	Water	5-16-11 17:09:07
14	16	516016.D	1	DIESEL 600/1000 5/13/11	Mix(A)	5-16-11 17:34:00

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: **110503W-36735 - 155154**
Batch ID: #SIMHC-110503A

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	05/03/11	05/04/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/04/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/04/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/04/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/04/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/04/11
BLANK	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/04/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/04/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	05/03/11	05/04/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/04/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/04/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/04/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	05/03/11	05/04/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/04/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/04/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/04/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/04/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	05/03/11	05/04/11
BLANK	SURROGATE: 2-FLUORBIPHENY	58.5	50-110			%	05/03/11	05/04/11
BLANK	SURROGATE: NITROBENZENE-	84.5	40-110			%	05/03/11	05/04/11
BLANK	SURROGATE: TERPHENYL-D14 (	61.4	50-135			%	05/03/11	05/04/11

Quant Method: SIM2.M
Run #: 0504L005
Instrument: Linus
Sequence: L110420
Initials: LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 6:34:10 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64544

Case No: 64544 Date Analyzed: 05/04/11

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-FLUORBIPHENYL (S)	SURROGATE: NITROBENZENE-D5 (S)
110503A-BLK	Blank	58.5	84.5
110503A-LCS	Lab Control Spike	59.0	87.0
AY36735	ES033	54.2	84.8

Comments: Batch: #SIMHC-110503A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64544

Case No: 64544 Date Analyzed: 05/04/11

Matrix: WATER Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: TERPHENYL-D14 (S)
110503A-BLK	Blank	61.4
110503A-LCS	Lab Control Spike	58.5
AY36735	ES033	60.0

Comments: Batch: #SIMHC-110503A

Laboratory Control Spike Recovery
EPA 8270D SIM

APPL ID: **110503W-36735 LCS - 155154**
Batch ID: #SIMHC-110503A

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	2.19	54.8	45-105
2-METHYLNAPHTHALENE	4.00	2.08	52.0	45-105
ACENAPHTHENE	4.00	2.68	67.0	45-110
ACENAPHTHYLENE	4.00	2.69	67.3	50-105
ANTHRACENE	4.00	3.64	91.0	55-110
BENZO(A)ANTHRACENE	4.00	3.26	81.5	55-110
BENZO(A)PYRENE	4.00	3.75	93.8	55-110
BENZO(B)FLUORANTHENE	4.00	3.76	94.0	45-120
BENZO(GHI)PERYLENE	4.00	3.64	91.0	40-125
BENZO(K)FLUORANTHENE	4.00	3.53	88.3	45-125
CHRYSENE	4.00	3.79	94.8	55-110
DIBENZ(A,H)ANTHRACENE	4.00	3.67	91.8	40-125
FLUORANTHENE	4.00	3.38	84.5	55-115
FLUORENE	4.00	3.28	82.0	50-110
INDENO(1,2,3-CD)PYRENE	4.00	3.13	78.3	45-125
NAPHTHALENE	4.00	2.03	50.7	40-100
PHENANTHRENE	4.00	3.57	89.3	50-115
PYRENE	4.00	3.50	87.5	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.18	59.0	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.74	87.0	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.17	58.5	50-135

Comments: _____

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	05/03/11
Analysis Date :	05/04/11
Instrument :	Linus
Run :	0504L006
Initials :	LF

Printed: 05/16/11 6:34:18 PM

APPL Standard LCS

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 64544

Case No: 64544 Date Analyzed: 05/04/11

Matrix: WATER Instrument: Linus

Blank ID: 110503A-BLK Time Analyzed: 1847

APPL ID.	Client Sample No.	File ID.	Date Analyzed
110503A-BLK	Blank	0504L005	05/04/11 1847
110503A-LCS	Lab Control Spike	0504L006	05/04/11 1913
AY36735	ES033	0504L028	05/05/11 0435

Comments: Batch: #SIMHC-110503A

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 64544
Matrix: Water
ID: SVTUNE 04-14-11

SDG No: 64544
Date Analyzed: 05/04/11
Instrument: Linus
Time Analyzed: 17:12

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	110503A BLK 1/1000	0504L005.D	05/04/11 18:47
2	Lab Control Spike	110503A LCS-1 1/1000	0504L006.D	05/04/11 19:13
3	ES033	AY36735W06 1/1000	0504L028.D	05/05/11 4:35
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	40.9
68	0 - 2.05% of mass 69	0.0
70	0 - 2% of mass 69	0.7
127	40 - 60% of mass 198	52.9
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	24.8
365	1 - 100% of mass 198	2.8
441	0.01 - 100% of mass 443	76.8
442	40 - 150% of mass 198	61.4
443	17 - 23% of mass 442	19.8

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: SDG No.: 64544

Lab File ID (Standard): 0420L006.D Date Analyzed: 04/20/11

Instrument ID: Linus Time Analyzed: 23:01

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	2790	6.17	1524	8.18	2709	9.90
	UPPER LIMIT	5580	6.67	3048	8.68	5418	10.40
	LOWER LIMIT	1395	5.67	762	7.68	1355	9.40
	SAMPLE NO.						
01	110503A BLK 1/1000	2623	6.18	1337	8.18	2711	9.91
02	110503A LCS-1 1/1000	2525	6.18	1258	8.18	2526	9.91
03	AY36735W06 1/1000	3288	6.18	1798	8.18	3723	9.91
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.: 64544

Lab File ID (Standard): 0420L006.D Date Analyzed: 04/20/11

Instrument ID: Linus Time Analyzed: 23:01

GC Column: ID: Heated Purge: (Y/N)

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	3273	12.96	2558	14.57		
	UPPER LIMIT	6546	13.46	5116	15.07		
	LOWER LIMIT	1637	12.46	1279	14.07		
	SAMPLE NO.						
01	110503A BLK 1/1000	2772	12.97	2277	14.58		
02	110503A LCS-1 1/1000	2938	12.97	2266	14.58		
03	AY36735W06 1/1000	4053	12.97	3496	14.58		
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: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES033
Sample Collection Date: 04/28/11

ARF: 64544
APPL ID: AY36735
QCG: #SIMHC-110503A-155154

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	05/03/11	05/05/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/05/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/05/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/05/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/05/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/05/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/05/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/05/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	05/03/11	05/05/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/05/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/05/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/05/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	05/03/11	05/05/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/05/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/05/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/05/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/05/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	05/03/11	05/05/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	54.2	50-110			%	05/03/11	05/05/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	84.8	40-110			%	05/03/11	05/05/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	60.0	50-135			%	05/03/11	05/05/11

Quant Method: SIM2.M
Run #: 0504L028
Instrument: Linus
Sequence: L110420
Dilution Factor: 1
Initials: LF

Printed: 05/16/11 6:34:25 PM
APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L028.D Vial: 28
Acq On : 5 May 11 4:35 Operator: LF
Sample : AY36735W06 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 18:17 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	3288	2.50000	ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	1798	2.50000	ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	3723	2.50000	ppb	0.01
15) Chrysene-D12(IS)	12.97	240	4053	2.50000	ppb	0.01
21) Perylene-D12(IS)	14.58	264	3496	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	431	1.69570	ppb	0.01
Spiked Amount 2.000			Recovery = 84.800%			
7) Surrogate Recovery (FBP)	7.42	172	1533	1.08372	ppb	0.00
Spiked Amount 2.000			Recovery = 54.200%			
17) Surrogate Recovery (TPH)	11.78	244	2139	1.19945	ppb	0.01
Spiked Amount 2.000			Recovery = 59.950%			

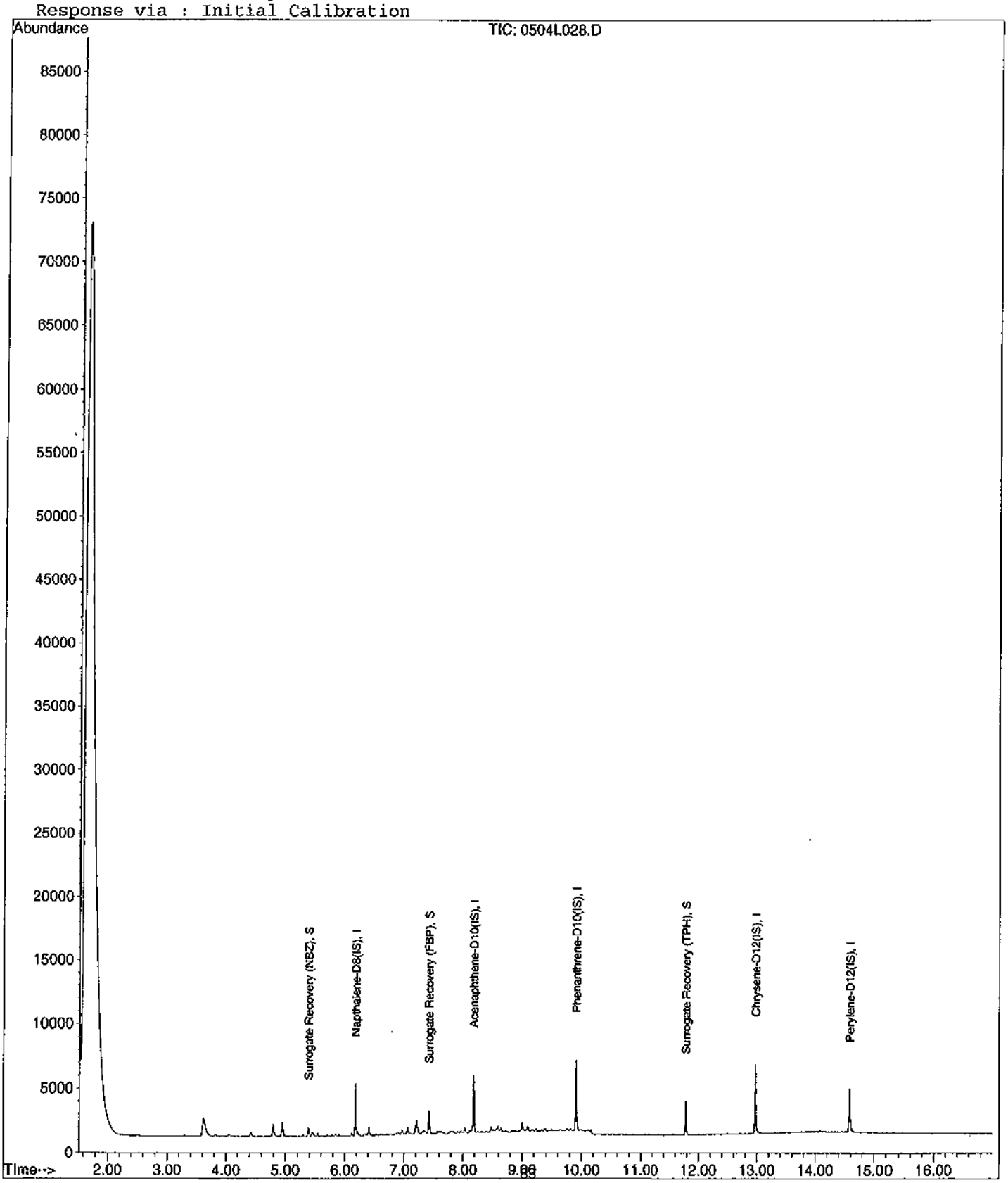
Target Compounds Qvalue

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0504L028.D Vial: 28
Acq On : 5 May 11 4:35 Operator: LF
Sample : AY36735W06 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 18:17 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Calibration Data

APPL, INC.

EPA 8270C SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 61544
Case No: Initial Cal. Date: 04/20/11
Matrix: Instrument: Linus
Initials:

0420L002.D 0420L003.D 0420L004.D 0420L005.D 0420L006.D 0420L007.D 0420L008.D 0420L009.D

		Compound	0.1	0.2	0.5	1	5	10	50	100			Avg	%RSD		r
1	I	Napthalene-D8(IS)														
2	SL	Surrogate Recovery (NBZ)	0.5818	0.4855	0.3006	0.2756	0.2403	0.2702	0.2755	0.3045			0.34	36	SL	0.999
3	TM	Naphthalene	1.800	1.721	1.687	1.607	1.387	1.539	1.272	1.256			1.5	14	TM	
4	TM	2-Methylnaphthalene	1.164	1.099	1.129	1.071	0.9482	1.071	0.8653	0.8145			1.0	13	TM	
5	TM	1-Methylnaphthalene	1.073	1.134	1.064	1.036	0.9045	1.027	0.8041	0.7498			0.97	14	TM	
6	I	Acenaphthene-D10(IS)														
7	S	Surrogate Recovery (FBP)	2.282	2.262	2.174	2.136	1.801	1.988	1.556	1.536			2.0	15	S	
8	TM	Acenaphthylene	3.008	2.938	2.986	2.846	2.523	2.924	2.245	2.257			2.7	12	TM	
9	*TM	Acenaphthene	1.694	1.646	1.766	1.647	1.484	1.681	1.298	1.275			1.6	12	*TM	
10	TM	Fluorene	2.109	2.031	2.053	1.957	1.726	2.015	1.600	1.535			1.9	12	TM	
11	I	Phenanthrene-D10(IS)														
12	TM	Phenanthrene	1.636	1.719	1.608	1.521	1.487	1.527	1.253	1.153			1.5	13	TM	
13	TM	Anthracene	1.393	1.635	1.287	1.231	1.272	1.295	1.087	0.9912			1.3	15	TM	
14	*TM	Fluoranthene	2.241	2.308	2.178	2.150	2.091	2.191	1.807	1.698			2.1	10	*TM	
15	I	Chrysene-D12(IS)														
16	TM	Pyrene	1.991	2.040	2.030	1.904	1.789	1.864	1.511	1.401			1.8	13	TM	
17	S	Surrogate Recovery (TPH)		1.271	1.244	1.190	1.102	1.127	0.9327	0.8335			1.1	15	S	
18	TM	Benz (a) anthracene	1.812	1.740	1.725	1.679	1.569	1.600	1.361	1.249			1.6	12	TM	
19	TM	Chrysene	1.596	1.511	1.537	1.502	1.442	1.486	1.236	1.120			1.4	11	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.149	1.079	1.381	1.040	1.001	1.176	1.091	1.038			1.1	11	TM	
21	I	Perylene-D12(IS)														
22	TM	Benzo (b) fluoranthene	1.916	1.860	1.957	1.823	1.719	2.278	1.621	1.704			1.9	11	TM	
23	TM	Benzo (k) fluoranthene	1.731	1.878	1.899	1.778	1.854	1.571	1.469	1.156			1.7	15	TM	
24	*TM	Benzo (a) pyrene	1.740	1.649	1.601	1.622	1.622	1.740	1.436	1.359			1.6	8.5	*TM	
25	TM	Dibenz (a,h) anthracene	1.379	1.377	1.380	1.339	1.320	1.531	1.358	1.326			1.4	4.9	TM	
26	TM	Benzo (g,h,i) perylene	1.657	1.394	1.523	1.479	1.451	1.576	1.357	1.332			1.5	7.6	TM	
27																
28																
29																
30																
31																
32																
33																
34																
35																

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L002.D Vial: 2
Acq On : 20 Apr 11 21:19 Operator: LF
Sample : 0.1ug/ml PAH 04-20-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:56 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2750	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1446	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	2979	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3352	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	2701	2.50000 ppb		-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.37	82	64	0.93191 ppb		0.00
Spiked Amount 2.000			Recovery = 46.600%			
7) Surrogate Recovery (FBP)	7.42	172	132	0.12001 ppb		0.00
Spiked Amount 2.000			Recovery = 6.000%			
17) Surrogate Recovery (TPH)	11.77	244	182	0.15071 ppb		0.00
Spiked Amount 2.000			Recovery = 7.550%			
Target Compounds						Qvalue
3) Naphthalene	6.19	128	198	0.12596 ppb		96
4) 2-Methylnaphthalene	6.99	142	128	0.14277 ppb		93
5) 1-Methylnaphthalene	7.10	142	118	0.11218 ppb		91
8) Acenaphthylene	8.01	152	174	0.12695 ppb		97
9) Acenaphthene	8.22	154	98	0.11945 ppb		96
10) Fluorene	8.82	166	122	0.12565 ppb		95
12) Phenanthrene	9.92	178	195	0.13124 ppb	#	89
13) Anthracene	9.98	178	166	0.12544 ppb		97
14) Fluoranthene	11.30	202	267	0.11122 ppb	#	96
16) Pyrene	11.56	202	267	0.14691 ppb	#	94
18) Benz (a) anthracene	12.95	228	243	0.15700 ppb		95
19) Chrysene	12.98	228	214	0.12472 ppb	#	91
20) Indeno (1,2,3-cd) pyrene	16.03	276	154	0.11147 ppb	#	98
22) Benzo (b) fluoranthene	14.13	252	207	0.15054 ppb		97
23) Benzo (k) fluoranthene	14.15	252	187	0.10870 ppb	#	87
24) Benzo (a) pyrene	14.50	252	188	0.13570 ppb		98
25) Dibenz (a,h) anthracene	16.06	278	149	0.12831 ppb	#	93
26) Benzo (g,h,i) perylene	16.45	276	179	0.14546 ppb		95

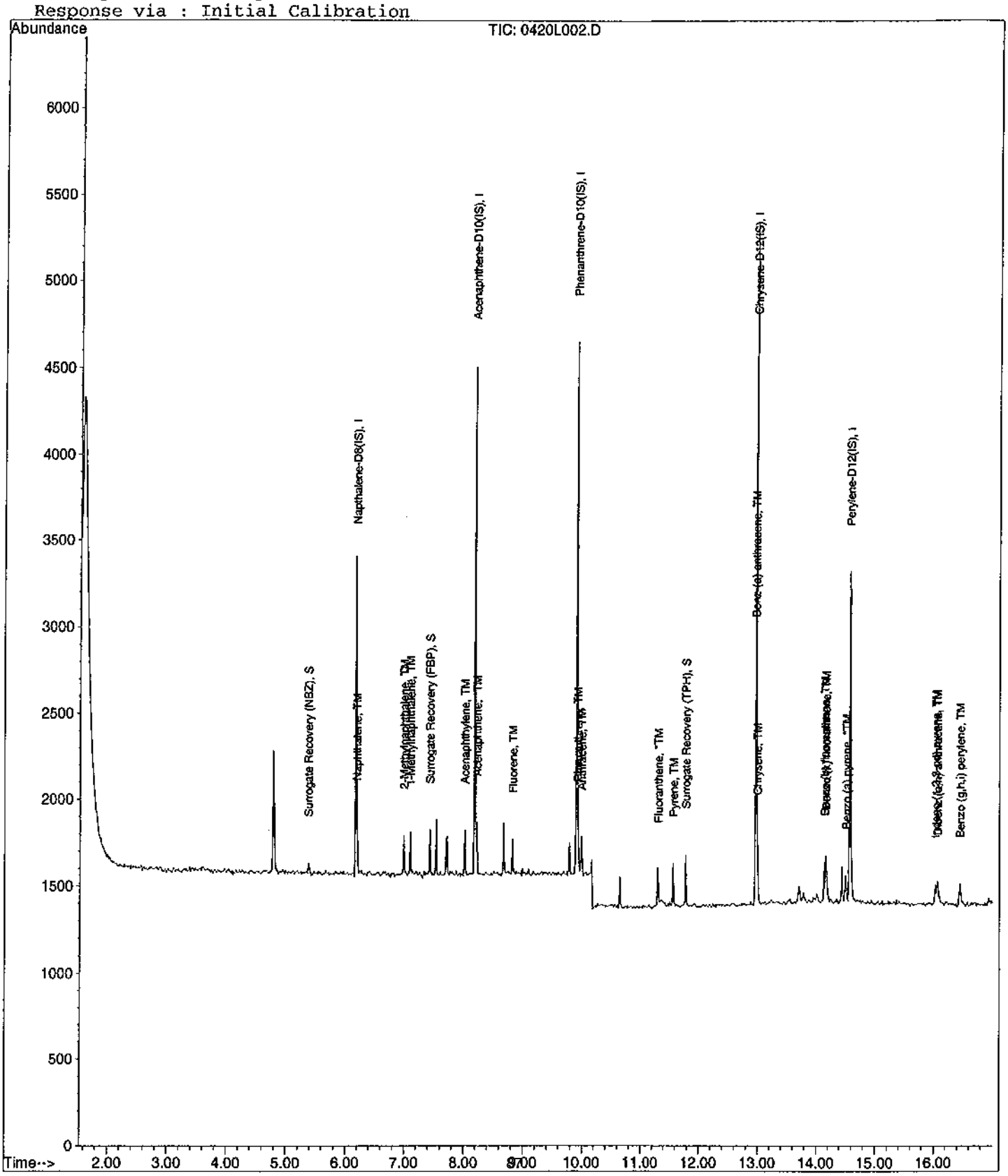
(#) = qualifier out of range (m) = manual integration
0420L002.D SIM2.M Fri Apr 22 15:15:21 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L002.D Vial: 2
Acq On : 20 Apr 11 21:19 Operator: LF
Sample : 0.1ug/ml PAH 04-20-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:56 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L003.D
Acq On : 20 Apr 11 21:44
Sample : 0.2ug/ml PAH
Misc :

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

Quant Time: Apr 21 7:59 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2832	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.18	164	1625	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	2989	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3591	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	2896	2.50000 ppb		-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.37	82	110	1.01911 ppb		0.00
Spiked Amount 2.000			Recovery = 50.950%			
7) Surrogate Recovery (FBP)	7.42	172	294	0.23785 ppb		0.00
Spiked Amount 2.000			Recovery = 11.900%			
17) Surrogate Recovery (TPH)	11.77	244	365	0.28213 ppb		0.00
Spiked Amount 2.000			Recovery = 14.100%			
Target Compounds						Qvalue
3) Naphthalene	6.19	128	390	0.24092 ppb		98
4) 2-Methylnaphthalene	6.99	142	249	0.26970 ppb		96
5) 1-Methylnaphthalene	7.10	142	257	0.23725 ppb		98
8) Acenaphthylene	8.01	152	382	0.24800 ppb		99
9) Acenaphthene	8.22	154	214	0.23211 ppb		93
10) Fluorene	8.82	166	264	0.24195 ppb		95
12) Phenanthrene	9.92	178	411	0.27569 ppb		98
13) Anthracene	9.98	178	391	0.29447 ppb		99
14) Fluoranthene	11.29	202	552	0.22918 ppb	#	73
16) Pyrene	11.56	202	586	0.30098 ppb		97
18) Benz (a) anthracene	12.95	228	500	0.30155 ppb		98
19) Chrysene	13.00	228	434	0.23610 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.03	276	310	0.20945 ppb	#	100
22) Benzo (b) fluoranthene	14.13	252	431	0.29234 ppb	#	97
23) Benzo (k) fluoranthene	14.16	252	435	0.23583 ppb		98
24) Benzo (a) pyrene	14.50	252	382	0.25717 ppb		97
25) Dibenz (a,h) anthracene	16.06	278	319	0.25621 ppb	#	95
26) Benzo (g,h,i) perylene	16.45	276	323	0.24480 ppb	#	89

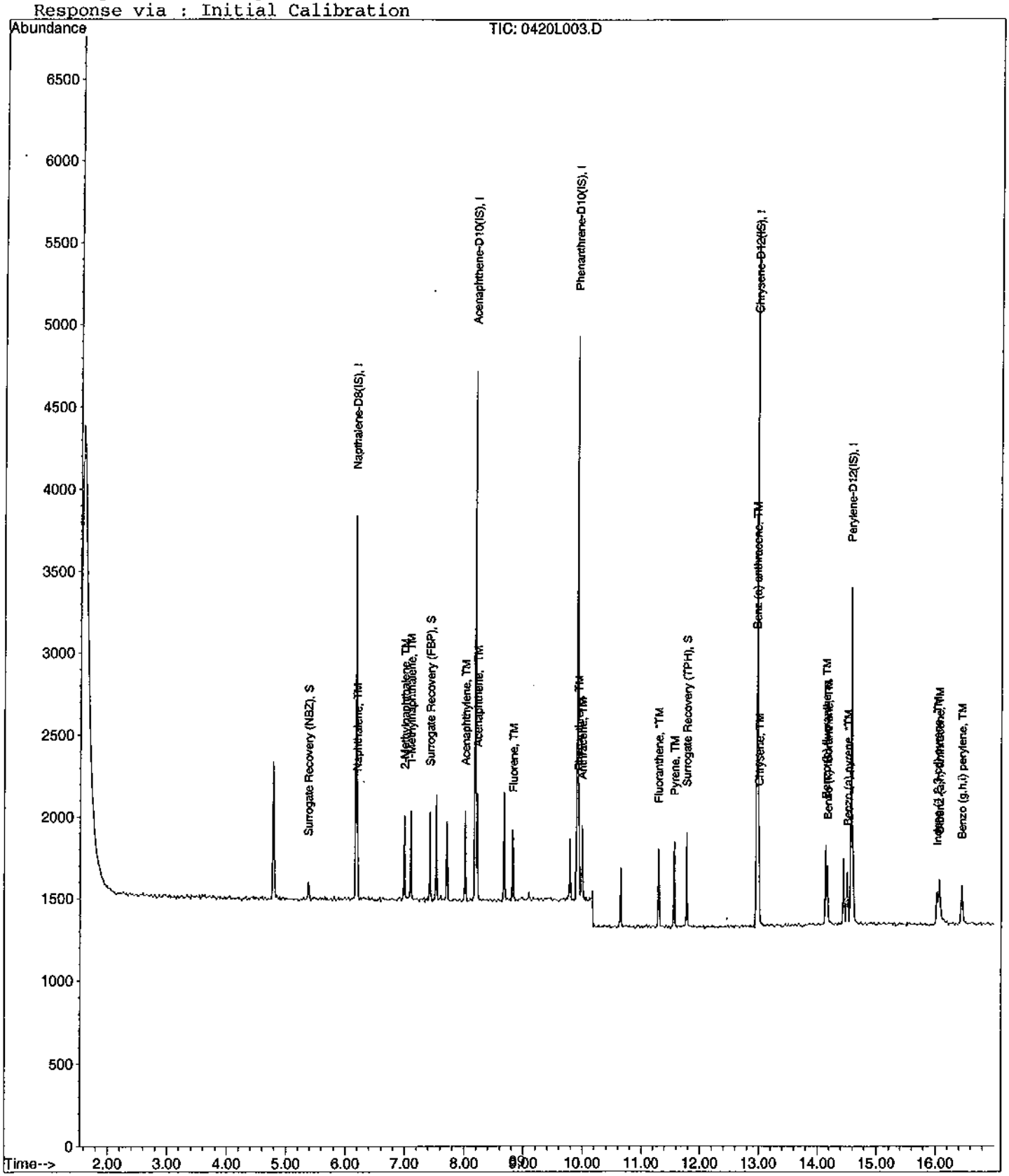
(#) = qualifier out of range (m) = manual integration
0420L003.D SIM2.M Fri Apr 22 15:15:23 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L003.D Vial: 3
Acq On : 20 Apr 11 21:44 Operator: LF
Sample : 0.2ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:59 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L004.D Vial: 4
Acq On : 20 Apr 11 22:10 Operator: LF
Sample : 0.5ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.17	136	3011	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	8.18	164	1656	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	3295	2.50000 ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3783	2.50000 ppb		0.00
21) Perylene-D12(IS)	14.56	264	3007	2.50000 ppb		-0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.37	82	181	1.13824 ppb		0.00
Spiked Amount 2.000			Recovery = 56.900%			
7) Surrogate Recovery (FBP)	7.42	172	720	0.57158 ppb		0.00
Spiked Amount 2.000			Recovery = 28.600%			
17) Surrogate Recovery (TPH)	11.77	244	941	0.69045 ppb		0.00
Spiked Amount 2.000			Recovery = 34.500%			
Target Compounds						Qvalue
3) Naphthalene	6.19	128	1016	0.59031 ppb		99
4) 2-Methylnaphthalene	6.99	142	680	0.69274 ppb		99
5) 1-Methylnaphthalene	7.10	142	641	0.55655 ppb		100
8) Acenaphthylene	8.01	152	989	0.63005 ppb		100
9) Acenaphthene	8.22	154	585	0.62263 ppb		99
10) Fluorene	8.82	166	680	0.61155 ppb		99
12) Phenanthrene	9.93	178	1060	0.64499 ppb		99
13) Anthracene	9.98	178	848	0.57933 ppb		99
14) Fluoranthene	11.30	202	1435	0.54045 ppb		98
16) Pyrene	11.56	202	1536	0.74888 ppb		99
18) Benz (a) anthracene	12.95	228	1305	0.74709 ppb		97
19) Chrysene	12.98	228	1163	0.60057 ppb	#	90
20) Indeno (1,2,3-cd) pyrene	16.02	276	1045	0.67023 ppb	#	87
22) Benzo (b) fluoranthene	14.13	252	1177	0.76887 ppb	#	96
23) Benzo (k) fluoranthene	14.15	252	1142	0.59627 ppb	#	94
24) Benzo (a) pyrene	14.50	252	963	0.62439 ppb		98
25) Dibenz (a,h) anthracene	16.06	278	830	0.64202 ppb	#	96
26) Benzo (g,h,i) perylene	16.45	276	916	0.66862 ppb		95

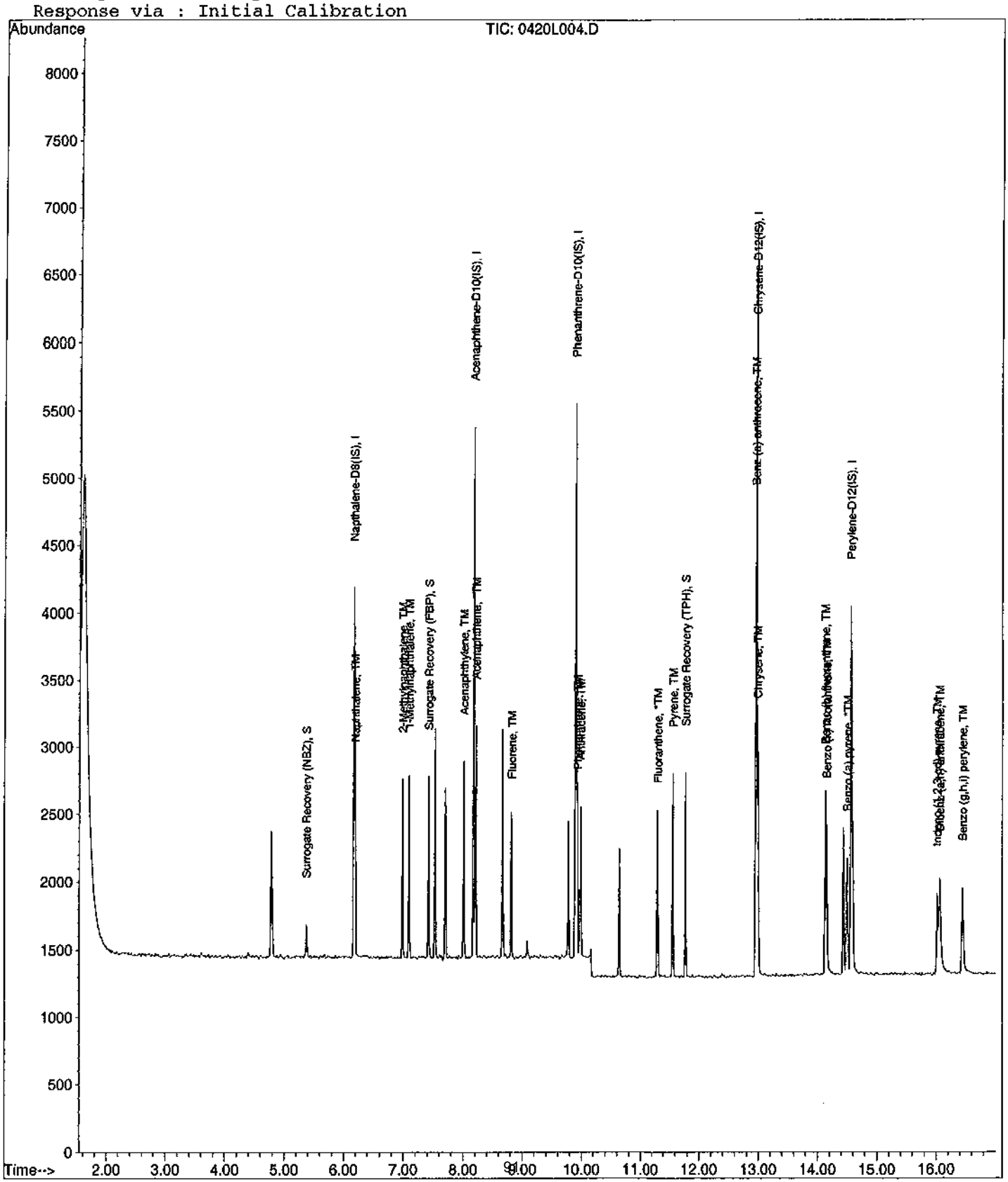
(#) = qualifier out of range (m) = manual integration
0420L004.D SIM2.M Fri Apr 22 15:15:25 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L004.D Vial: 4
Acq On : 20 Apr 11 22:10 Operator: LF
Sample : 0.5ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L005.D Vial: 5
Acq On : 20 Apr 11 22:35 Operator: LF
Sample : 1.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	6.17	136	3066	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	8.18	164	1685	2.50000	ppb		0.00
11) Phenanthrene-D10(IS)	9.90	188	3423	2.50000	ppb		0.00
15) Chrysene-D12(IS)	12.96	240	3982	2.50000	ppb		0.00
21) Perylene-D12(IS)	14.56	264	3191	2.50000	ppb		-0.01
System Monitoring Compounds							
2) Surrogate Recovery (NBZ)	5.37	82	338	1.41900	ppb		0.00
Spiked Amount 2.000			Recovery = 70.950%				
7) Surrogate Recovery (FBP)	7.42	172	1440	1.12348	ppb		0.00
Spiked Amount 2.000			Recovery = 56.150%				
17) Surrogate Recovery (TPH)	11.77	244	1896	1.32165	ppb		0.00
Spiked Amount 2.000			Recovery = 66.100%				
Target Compounds							Qvalue
3) Naphthalene	6.19	128	1971	1.12463	ppb		99
4) 2-Methylnaphthalene	6.99	142	1314	1.31460	ppb		99
5) 1-Methylnaphthalene	7.10	142	1270	1.08291	ppb		98
8) Acenaphthylene	8.01	152	1918	1.20085	ppb		100
9) Acenaphthene	8.22	154	1110	1.16107	ppb		99
10) Fluorene	8.82	166	1319	1.16580	ppb		100
12) Phenanthrene	9.92	178	2083	1.22006	ppb		96
13) Anthracene	9.98	178	1686	1.10876	ppb		100
14) Fluoranthene	11.29	202	2944	1.06731	ppb	#	77
16) Pyrene	11.56	202	3033	1.40485	ppb		98
18) Benz (a) anthracene	12.95	228	2674	1.45432	ppb		98
19) Chrysene	13.00	228	2393	1.17398	ppb		99
20) Indeno (1,2,3-cd) pyrene	16.03	276	1657	1.00964	ppb	#	96
22) Benzo (b) fluoranthene	14.13	252	2327	1.43244	ppb		98
23) Benzo (k) fluoranthene	14.15	252	2269	1.11639	ppb	#	94
24) Benzo (a) pyrene	14.50	252	2070	1.26475	ppb		97
25) Dibenz (a,h) anthracene	16.07	278	1709	1.24572	ppb	#	94
26) Benzo (g,h,i) perylene	16.45	276	1888	1.29865	ppb		95

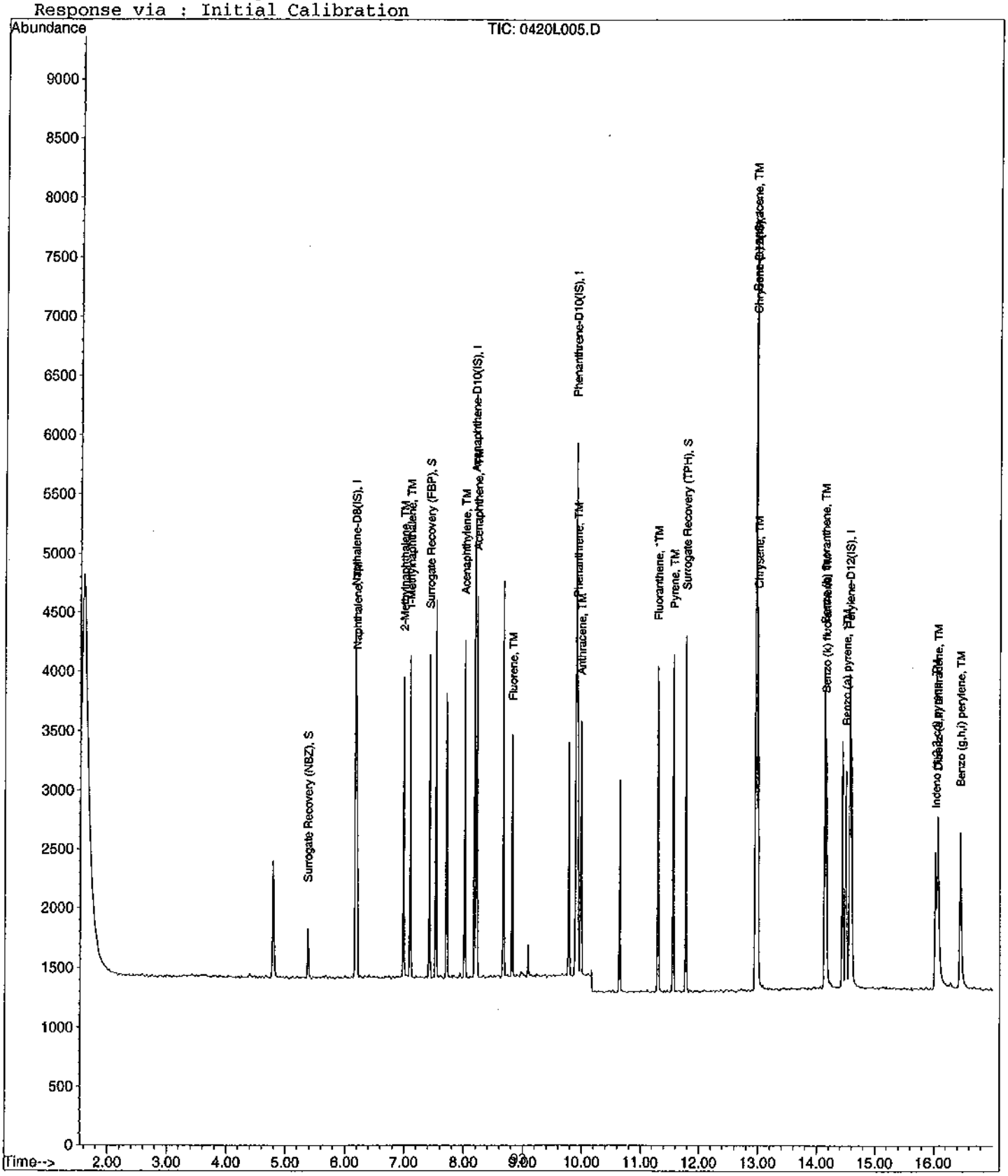
(#) = qualifier out of range (m) = manual integration
0420L005.D SIM2.M Fri Apr 22 15:15:26 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L005.D Vial: 5
Acq On : 20 Apr 11 22:35 Operator: LF
Sample : 1.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L006.D Vial: 6
Acq On : 20 Apr 11 23:01 Operator: LF
Sample : 5.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 8:00 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

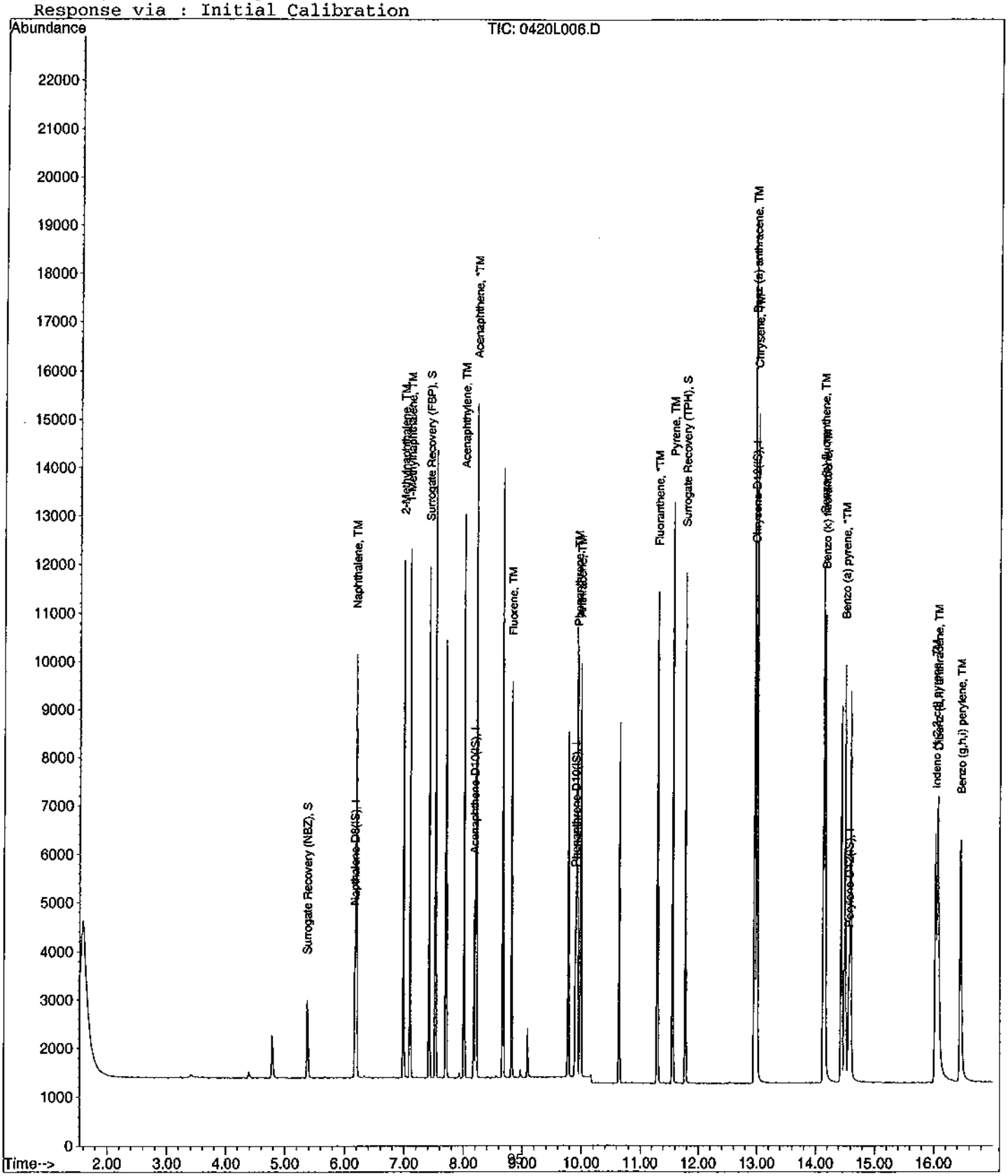
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2790	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.18	164	1524	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.90	188	2709	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.96	240	3273	2.50000 ppb	0.00
21) Perylene-D12(IS)	14.57	264	2558	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.37	82	1341	3.49355 ppb	0.00
Spiked Amount 2.000			Recovery	= 174.700%	
7) Surrogate Recovery (FBP)	7.42	172	5488	4.73402 ppb	0.00
Spiked Amount 2.000			Recovery	= 236.700%	
17) Surrogate Recovery (TPH)	11.77	244	7213	6.11714 ppb	0.00
Spiked Amount 2.000			Recovery	= 305.850%	
Target Compounds					Qvalue
3) Naphthalene	6.19	128	7737	4.85135 ppb	100
4) 2-Methylnaphthalene	6.99	142	5291	5.81705 ppb	100
5) 1-Methylnaphthalene	7.10	142	5047	4.72921 ppb	100
8) Acenaphthylene	8.01	152	7691	5.32400 ppb	100
9) Acenaphthene	8.22	154	4524	5.23207 ppb	100
10) Fluorene	8.82	166	5261	5.14120 ppb	100
12) Phenanthrene	9.93	178	8054	5.96078 ppb	100
13) Anthracene	9.98	178	6890	5.72527 ppb	100
14) Fluoranthene	11.30	202	11331	5.19063 ppb	100
16) Pyrene	11.56	202	11712	6.60000 ppb	100
18) Benz (a) anthracene	12.95	228	10269	6.79490 ppb	100
19) Chrysene	13.00	228	9441	5.63498 ppb	100
20) Indeno (1,2,3-cd) pyrene	16.03	276	6555	4.85927 ppb	100
22) Benzo (b) fluoranthene	14.13	252	8792	6.75142 ppb	100
23) Benzo (k) fluoranthene	14.16	252	9484	5.82101 ppb	100
24) Benzo (a) pyrene	14.50	252	8298	6.32459 ppb	100
25) Dibenz (a,h) anthracene	16.08	278	6755	6.14230 ppb	100
26) Benzo (g,h,i) perylene	16.46	276	7423	6.36935 ppb	100

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L006.D Vial: 6
Acq On : 20 Apr 11 23:01 Operator: LF
Sample : 5.0ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 8:00 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L007.D Vial: 7
Acq On : 20 Apr 11 23:27 Operator: LF
Sample : 10ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2769	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.18	164	1507	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.90	188	2912	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.96	240	3578	2.50000 ppb	0.00
21) Perylene-D12(IS)	14.57	264	2756	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	5.37	82	2993	6.85542 ppb	0.00
Spiked Amount 2.000			Recovery = 342.750%		
7) Surrogate Recovery (FBP)	7.42	172	11986	10.45592 ppb	0.00
Spiked Amount 2.000			Recovery = 522.800%		
17) Surrogate Recovery (TPH)	11.77	244	16134	12.51641 ppb	0.00
Spiked Amount 2.000			Recovery = 625.800%		
Target Compounds					Qvalue
3) Naphthalene	6.19	128	17043	10.76756 ppb	100
4) 2-Methylnaphthalene	6.99	142	11865	13.14360 ppb	99
5) 1-Methylnaphthalene	7.10	142	11371	10.73581 ppb	99
8) Acenaphthylene	8.01	152	17625	12.33833 ppb	99
9) Acenaphthene	8.22	154	10131	11.84881 ppb	97
10) Fluorene	8.82	166	12146	12.00331 ppb	97
12) Phenanthrene	9.93	178	17781	12.24236 ppb	99
13) Anthracene	9.98	178	15088	11.66342 ppb	99
14) Fluoranthene	11.30	202	25519	10.87509 ppb	100
16) Pyrene	11.56	202	26680	13.75321 ppb	100
18) Benz (a) anthracene	12.95	228	22906	13.86467 ppb	99
19) Chrysene	13.00	228	21271	11.61363 ppb	100
20) Indeno (1,2,3-cd) pyrene	16.03	276	16828	11.41132 ppb	94
22) Benzo (b) fluoranthene	14.13	252	25117	17.90180 ppb	98
23) Benzo (k) fluoranthene	14.16	252	17323	9.86849 ppb	99
24) Benzo (a) pyrene	14.50	252	19179	13.56771 ppb	99
25) Dibenz (a,h) anthracene	16.08	278	16880	14.24622 ppb	99
26) Benzo (g,h,i) perylene	16.46	276	17374	13.83684 ppb	97

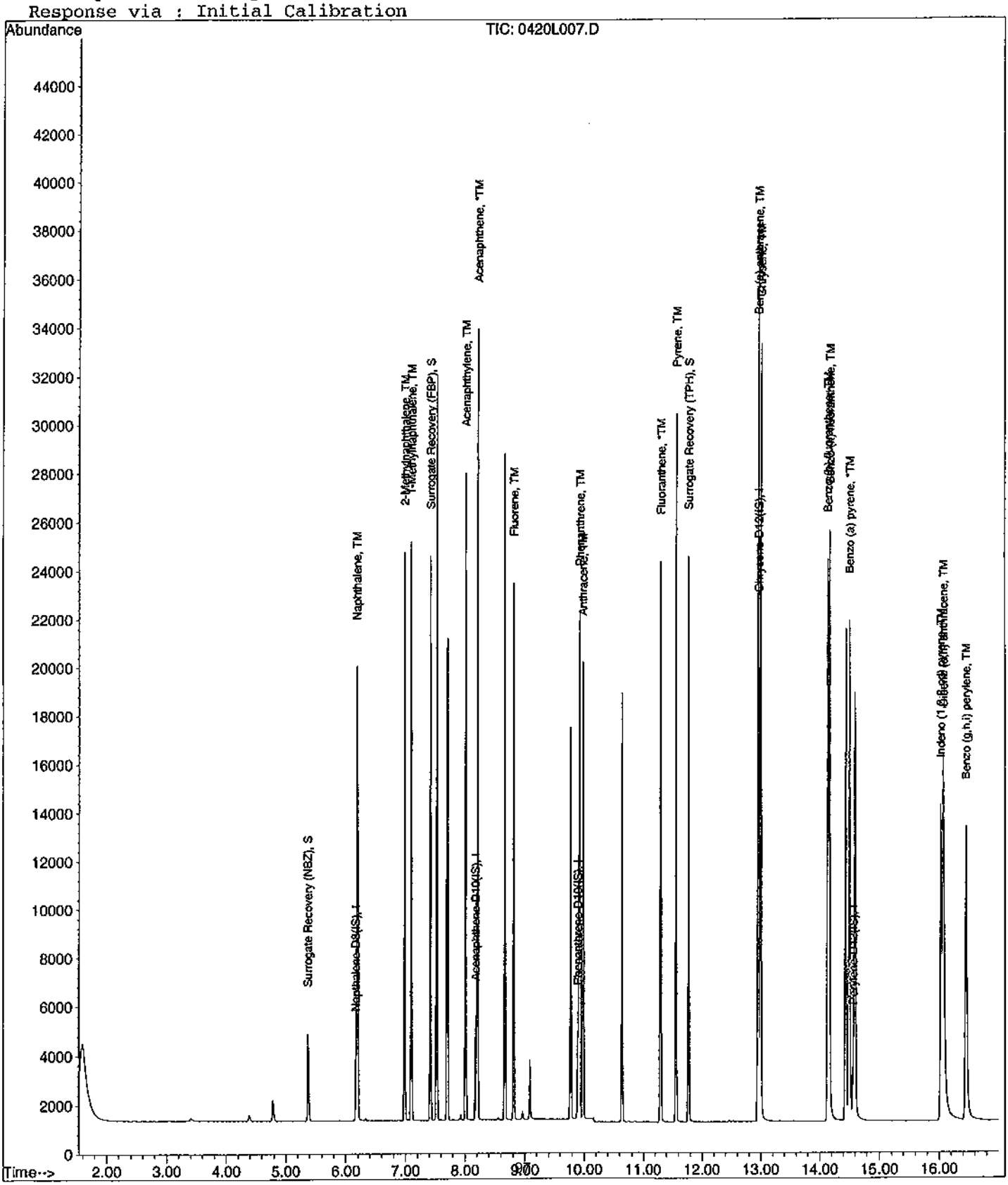
(#) = qualifier out of range (m) = manual integration
0420L007.D SIM2.M Fri Apr 22 15:15:30 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L007.D Vial: 7
Acq On : 20 Apr 11 23:27 Operator: LF
Sample : 10ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L008.D Vial: 8
Acq On : 20 Apr 11 23:52 Operator: LF
Sample : 50ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2619	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1461	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	2706	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	3281	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.57	264	2626	2.50000 ppb		0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	14429	31.65824 ppb		0.01
Spiked Amount 2.000			Recovery	= 1582.900%		
7) Surrogate Recovery (FBP)	7.42	172	45452	40.89818 ppb		0.00
Spiked Amount 2.000			Recovery	= 2044.900%		
17) Surrogate Recovery (TPH)	11.78	244	61204	51.77877 ppb		0.01
Spiked Amount 2.000			Recovery	= 2588.950%		
Target Compounds						Qvalue
3) Naphthalene	6.20	128	66602	44.48830 ppb		97
4) 2-Methylnaphthalene	6.99	142	45324	53.08384 ppb		99
5) 1-Methylnaphthalene	7.10	142	42121	42.04578 ppb		98
8) Acenaphthylene	8.01	152	65610	47.37621 ppb		98
9) Acenaphthene	8.22	154	37925	45.75211 ppb		95
10) Fluorene	8.82	166	46744	47.64930 ppb		95
12) Phenanthrene	9.93	178	67803	50.23672 ppb		98
13) Anthracene	9.99	178	58810	48.92254 ppb		98
14) Fluoranthene	11.30	202	97789	44.84590 ppb	#	91
16) Pyrene	11.56	202	99166	55.74620 ppb	#	90
18) Benz (a) anthracene	12.96	228	89321	58.95873 ppb		95
19) Chrysene	13.00	228	81106	48.29111 ppb	#	94
20) Indeno (1,2,3-cd) pyrene	16.04	276	71595	52.94444 ppb	#	85
22) Benzo (b) fluoranthene	14.14	252	85119	63.67074 ppb	#	97
23) Benzo (k) fluoranthene	14.17	252	77135	46.11729 ppb	#	97
24) Benzo (a) pyrene	14.51	252	75395	55.97673 ppb		98
25) Dibenz (a,h) anthracene	16.09	278	71307	63.16027 ppb		97
26) Benzo (g,h,i) perylene	16.48	276	71255	59.55756 ppb		97

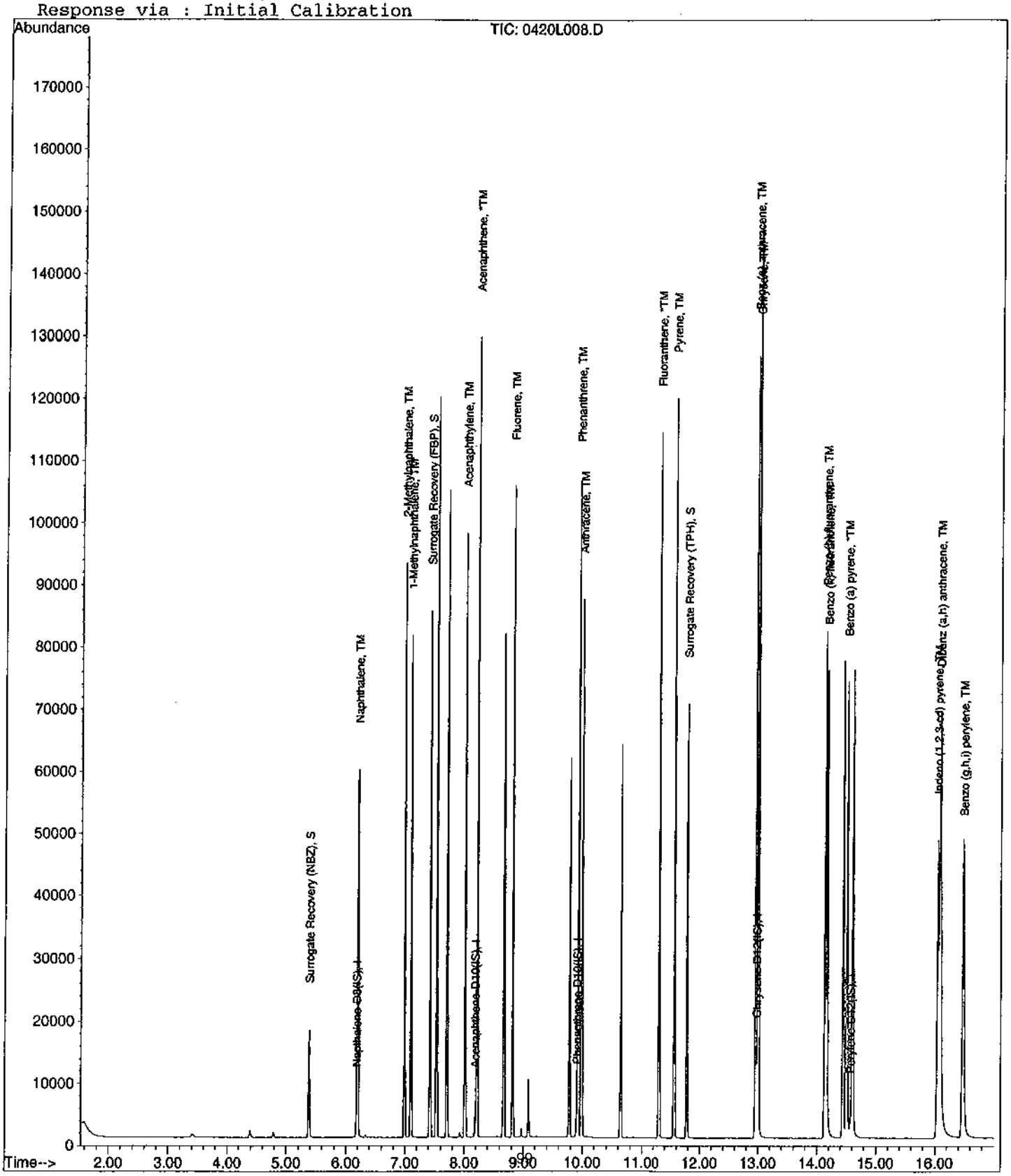
(#) = qualifier out of range (m) = manual integration
0420L008.D SIM2.M Fri Apr 22 15:15:31 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L008.D Vial: 8
Acq On : 20 Apr 11 23:52 Operator: LF
Sample : 50ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L009.D Vial: 9
Acq On : 21 Apr 11 00:18 Operator: LF
Sample : 100ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 07:47:11 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

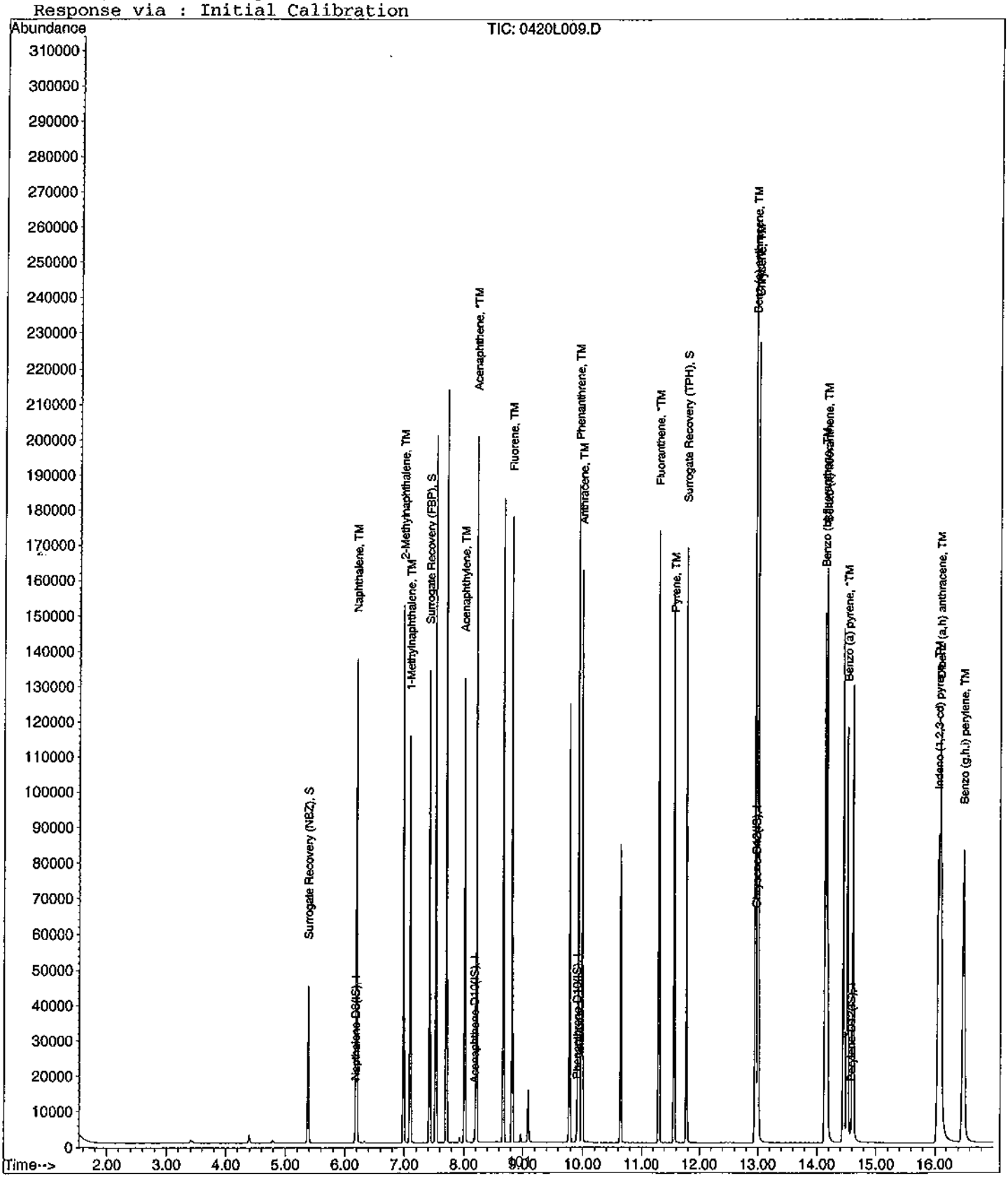
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2444	2.50000	ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1291	2.50000	ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	2528	2.50000	ppb		0.01
15) Chrysene-D12(IS)	12.97	240	3267	2.50000	ppb		0.01
21) Perylene-D12(IS)	14.58	264	2538	2.50000	ppb		0.01
System Monitoring Compounds							
2) Surrogate Recovery (NBZ)	5.38	82	29768	69.01924	ppb		0.01
Spiked Amount 2.000			Recovery	= 3450.950%			
7) Surrogate Recovery (FBP)	7.42	172	79340	80.79178	ppb		0.00
Spiked Amount 2.000			Recovery	= 4039.600%			
17) Surrogate Recovery (TPH)	11.78	244	108916	92.53813	ppb		0.01
Spiked Amount 2.000			Recovery	= 4626.900%			
Target Compounds							Qvalue
3) Naphthalene	6.20	128	122757	87.86969	ppb		98
4) 2-Methylnaphthalene	6.99	142	79622	99.93128	ppb		97
5) 1-Methylnaphthalene	7.10	142	73299	78.40723	ppb		97
8) Acenaphthylene	8.01	152	116577	95.26364	ppb		98
9) Acenaphthene	8.22	154	65819	89.85884	ppb		91
10) Fluorene	8.82	166	79247	91.41921	ppb		93
12) Phenanthrene	9.93	178	116627	92.49584	ppb		97
13) Anthracene	9.99	178	100235	89.25404	ppb		99
14) Fluoranthene	11.30	202	171669	84.27046	ppb	#	81
16) Pyrene	11.57	202	183086	103.36291	ppb	#	94
18) Benz (a) anthracene	12.96	228	163204	108.18883	ppb		98
19) Chrysene	13.01	228	146416	87.55074	ppb		98
20) Indeno (1,2,3-cd) pyrene	16.06	276	135700	100.78006	ppb	#	100
22) Benzo (b) fluoranthene	14.14	252	172982	133.88053	ppb		98
23) Benzo (k) fluoranthene	14.17	252	117353	72.59548	ppb	#	96
24) Benzo (a) pyrene	14.52	252	137988	106.00087	ppb	#	96
25) Dibenz (a,h) anthracene	16.10	278	134639	123.39165	ppb	#	94
26) Benzo (g,h,i) perylene	16.50	276	135242	116.95971	ppb	#	93

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L009.D Vial: 9
Acq On : 21 Apr 11 00:18 Operator: LF
Sample : 100ug/ml PAH Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 7:47 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No:

Case No: Date Analyzed: 04/21/11

Matrix: Instrument: Linus

Initial Cal. Date: 04/20/11

Data File: 0420L010.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	1.534	1.383	9.8	TM	
3	TM	2-Methylnaphthalene	1.020	0.9392	7.9	TM	
4	TM	1-Methylnaphthalene	0.9740	0.8971	7.9	TM	
5	I	Acenaphthene-D10(IS)	ISTD			I	
6	TM	Acenaphthylene	2.716	2.677	1.4	TM	
7	*TM	Acenaphthene	1.561	1.533	1.8	*TM	
8	TM	Fluorene	1.878	1.836	2.2	TM	
9	I	Phenanthrene-D10(IS)	ISTD			I	
10	TM	Phenanthrene	1.488	1.476	0.87	TM	
11	TM	Anthracene	1.274	1.205	5.4	TM	
12	*TM	Fluoranthene	2.083	2.039	2.1	*TM	
13	I	Chrysene-D12(IS)	ISTD			I	
14	TM	Pyrene	1.816	1.779	2.1	TM	
15	TM	Benz (a) anthracene	1.592	1.520	4.6	TM	
16	TM	Chrysene	1.429	1.414	1.0	TM	
17	TM	Indeno (1,2,3-cd) pyrene	1.119	1.044	6.7	TM	
18	I	Perylene-D12(IS)	ISTD			I	
19	TM	Benzo (b) fluoranthene	1.860	1.719	7.6	TM	
20	TM	Benzo (k) fluoranthene	1.667	1.897	14	TM	
21	*TM	Benzo (a) pyrene	1.596	1.612	1.0	*TM	
22	TM	Dibenz (a,h) anthracene	1.376	1.373	0.22	TM	
23	TM	Benzo (g,h,i) perylene	1.471	1.452	1.3	TM	
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			4.3		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0420L010.D Vial: 10
Acq On : 21 Apr 11 00:43 Operator: LF
Sample : 5.0ug/ml PAH SS 04-11-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 8:03 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	6.17	136	2897	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	8.18	164	1519	2.50000 ppb	0.00
11) Phenanthrene-D10(IS)	9.90	188	2825	2.50000 ppb	0.00
15) Chrysene-D12(IS)	12.96	240	3364	2.50000 ppb	0.00
21) Perylene-D12(IS)	14.57	264	2611	2.50000 ppb	0.00
System Monitoring Compounds					
2) Surrogate Recovery (NBZ)	0.00	82	0d	0.60610 ppb	
Spiked Amount 2.000			Recovery	= 30.300%	
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	6.19	128	8015	4.51029 ppb	100
4) 2-Methylnaphthalene	6.99	142	5442	4.60274 ppb	100
5) 1-Methylnaphthalene	7.10	142	5198	4.60535 ppb	99
8) Acenaphthylene	8.01	152	8132	4.92763 ppb	100
9) Acenaphthene	8.22	154	4657	4.90884 ppb	98
10) Fluorene	8.82	166	5579	4.88878 ppb	99
12) Phenanthrene	9.93	178	8334	4.95633 ppb	99
13) Anthracene	9.99	178	6810	4.73072 ppb	97
14) Fluoranthene	11.30	202	11518	4.89349 ppb	99
16) Pyrene	11.56	202	11969	4.89704 ppb	100
18) Benz (a) anthracene	12.95	228	10225	4.77324 ppb	99
19) Chrysene	13.00	228	9515	4.94869 ppb	100
20) Indeno (1,2,3-cd) pyrene	16.03	276	7026	4.66422 ppb #	92
22) Benzo (b) fluoranthene	14.13	252	8978	4.62229 ppb	99
23) Benzo (k) fluoranthene	14.16	252	9906	5.69029 ppb	99
24) Benzo (a) pyrene	14.50	252	8418	5.05004 ppb	99
25) Dibenz (a,h) anthracene	16.08	278	7171	4.98877 ppb	99
26) Benzo (g,h,i) perylene	16.46	276	7582	4.93474 ppb	98

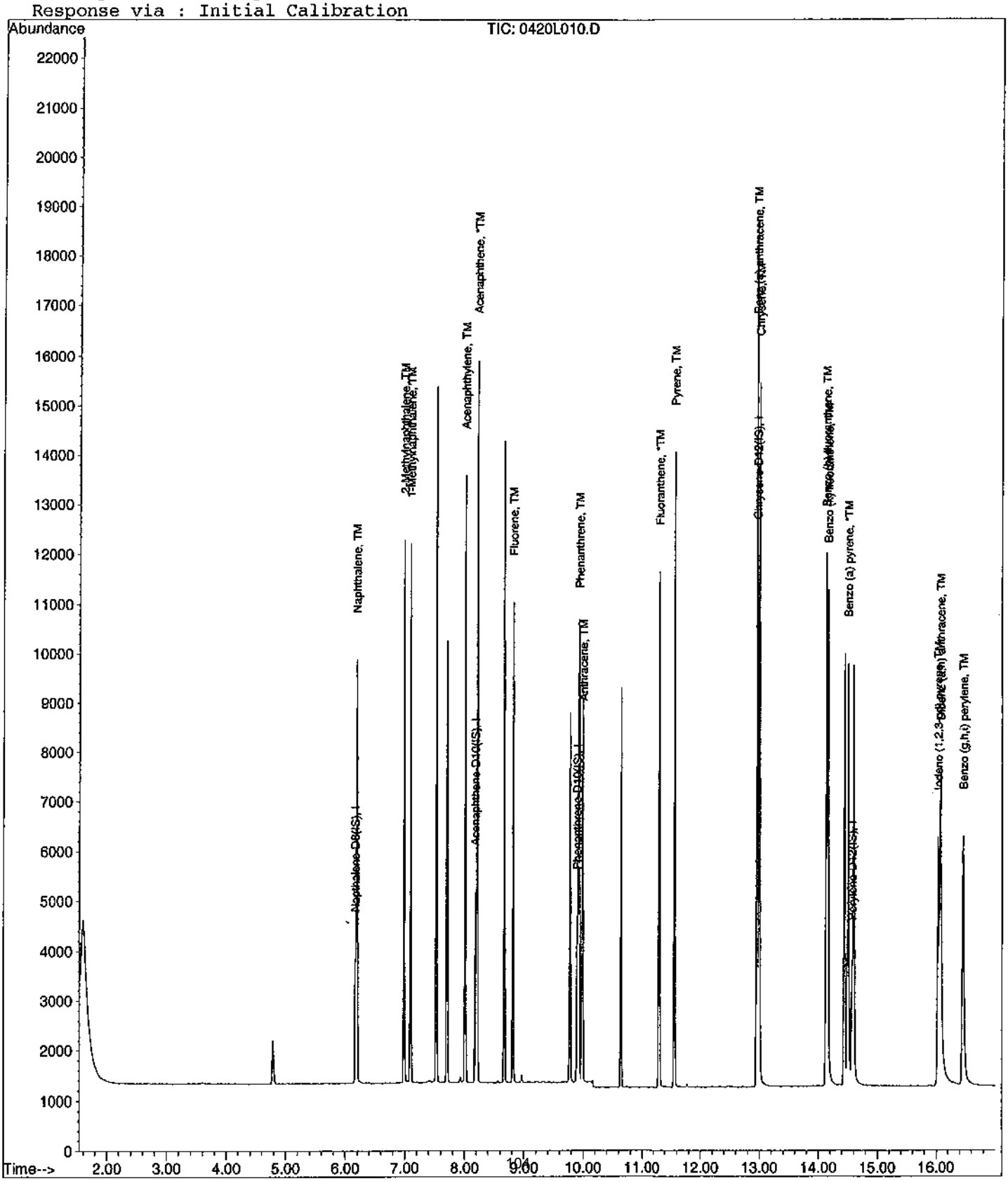
(#) = qualifier out of range (m) = manual integration
0420L010.D SIM2.M Fri Apr 22 15:15:48 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0420L010.D Vial: 10
Acq On : 21 Apr 11 00:43 Operator: LF
Sample : 5.0ug/ml PAH SS 04-11-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: Apr 21 8:03 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Apr 21 08:01:22 2011
Response via : Initial Calibration



Form 7

Continuing Calibration

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

SDG No: 64544
Date Analyzed: 4 May 11 17:30
Instrument: Linus
Initial Cal. Date: 04/20/11
Data File: 0504L002.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	SL	Surrogate Recovery (NBZ)	0.3418	0.3169	7.6	SL	17
3	TM	Naphthalene	1.534	1.514	1.3	TM	
4	TM	2-Methylnaphthalene	1.020	0.9938	2.6	TM	
5	TM	1-Methylnaphthalene	0.9740	0.9310	4.4	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	S	Surrogate Recovery (FBP)	1.967	1.686	14	S	
8	TM	Acenaphthylene	2.716	2.321	15	TM	
9	*TM	Acenaphthene	1.561	1.388	11	*TM	
10	TM	Fluorene	1.878	1.680	11	TM	
11	I	Phenanthrene-D10(IS)	ISTD			I	
12	TM	Phenanthrene	1.488	1.326	11	TM	
13	TM	Anthracene	1.274	1.084	15	TM	
14	*TM	Fluoranthene	2.083	1.708	18	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.816	1.630	10	TM	
17	S	Surrogate Recovery (TPH)	1.100	1.067	3.0	S	
18	TM	Benz (a) anthracene	1.592	1.388	13	TM	
19	TM	Chrysene	1.429	1.249	13	TM	
20	TM	Indeno (1,2,3-cd) pyrene	1.119	1.301	16	TM	
21	I	Perylene-D12(IS)	ISTD			I	
22	TM	Benzo (b) fluoranthene	1.860	1.721	7.5	TM	
23	TM	Benzo (k) fluoranthene	1.667	1.382	17	TM	
24	*TM	Benzo (a) pyrene	1.596	1.399	12	*TM	
25	TM	Dibenz (a,h) anthracene	1.376	1.241	9.9	TM	
26	TM	Benzo (g,h,i) perylene	1.471	1.266	14	TM	
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			10.8		

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L002.D Vial: 2
Acq On : 4 May 11 17:30 Operator: LF
Sample : 5.0ug/ml PAH 04-20-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 17:07 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:05:23 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2268	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1409	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	2572	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	2851	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.58	264	2385	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	1433	5.85808 ppb		0.01
Spiked Amount 2.000			Recovery	= 292.900%		
7) Surrogate Recovery (FBP)	7.42	172	4750	4.28497 ppb		0.00
Spiked Amount 2.000			Recovery	= 214.250%		
17) Surrogate Recovery (TPH)	11.78	244	6084	4.84999 ppb		0.01
Spiked Amount 2.000			Recovery	= 242.500%		
Target Compounds						Qvalue
3) Naphthalene	6.20	128	6867	4.93598 ppb		99
4) 2-Methylnaphthalene	6.99	142	4508	4.87021 ppb		95
5) 1-Methylnaphthalene	7.11	142	4223	4.77918 ppb		93
8) Acenaphthylene	8.03	152	6541	4.27299 ppb		99
9) Acenaphthene	8.22	154	3910	4.44320 ppb		92
10) Fluorene	8.82	166	4734	4.47218 ppb		93
12) Phenanthrene	9.93	178	6819	4.45426 ppb		97
13) Anthracene	9.99	178	5575	4.25375 ppb		99
14) Fluoranthene	11.30	202	8784	4.09904 ppb	#	75
16) Pyrene	11.57	202	9292	4.48584 ppb		99
18) Benz (a) anthracene	12.96	228	7913	4.35863 ppb		99
19) Chrysene	13.01	228	7122	4.37061 ppb		100
20) Indeno (1,2,3-cd) pyrene	16.06	276	7421	5.81289 ppb		97
22) Benzo (b) fluoranthene	14.14	252	8208	4.62630 ppb	#	96
23) Benzo (k) fluoranthene	14.17	252	6590	4.14420 ppb	#	98
24) Benzo (a) pyrene	14.51	252	6673	4.38254 ppb	#	97
25) Dibenz (a,h) anthracene	16.10	278	5918	4.50720 ppb		97
26) Benzo (g,h,i) perylene	16.48	276	6037	4.30150 ppb	#	93

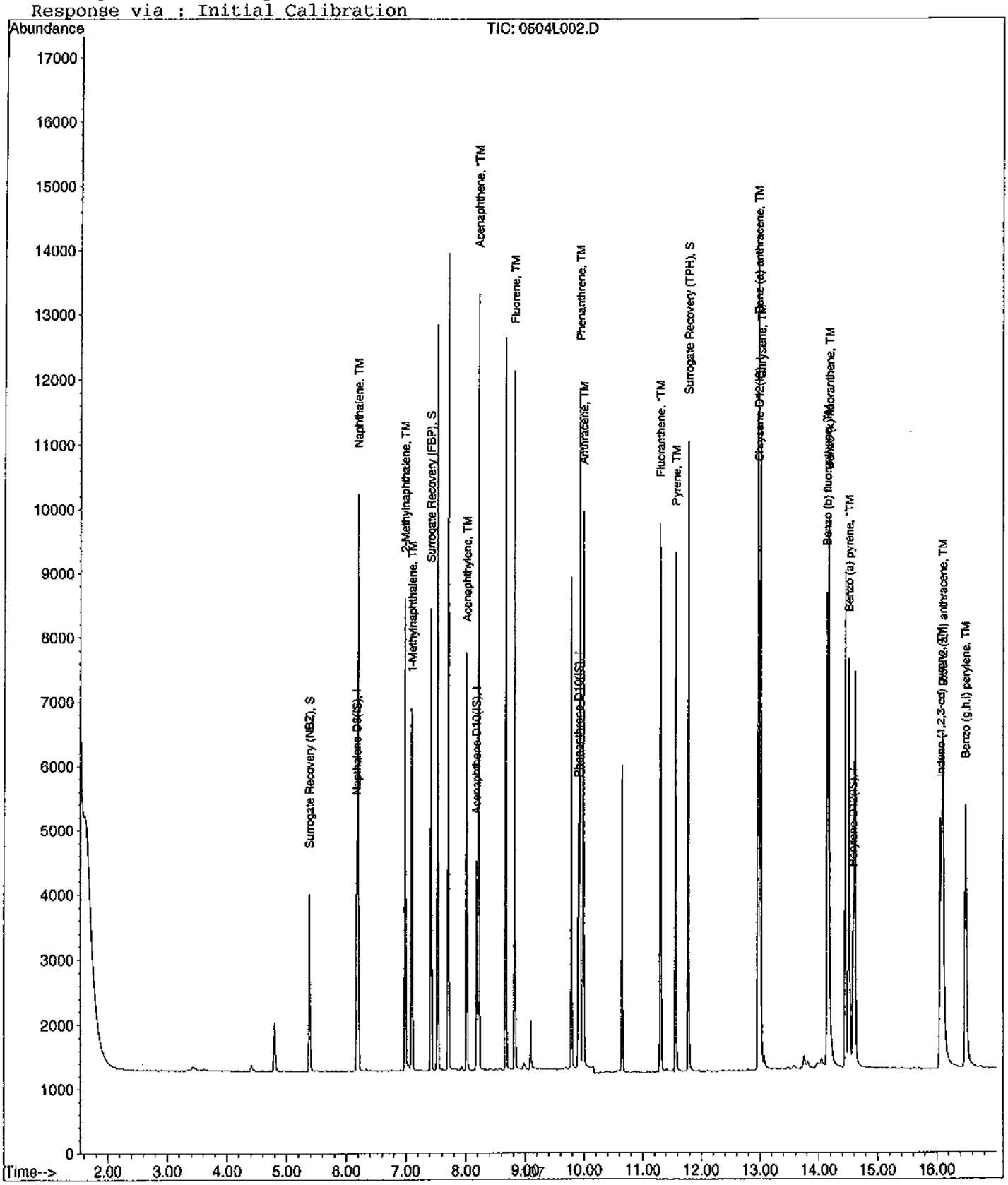
(#) = qualifier out of range (m) = manual integration
0504L002.D SIM2.M Mon May 16 18:17:39 2011 Page 1

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0504L002.D Vial: 2
Acq On : 4 May 11 17:30 Operator: LF
Sample : 5.0ug/ml PAH 04-20-11 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 17:07 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Raw Data

APPL, INC.

Method Blank
EPA 8270D SIM

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110503W-36735 - 155154**
Batch ID: #SIMHC-110503A

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	05/03/11	05/04/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/04/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/04/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/04/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/04/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/04/11
BLANK	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/04/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/04/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	05/03/11	05/04/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/04/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/04/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/04/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	05/03/11	05/04/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	05/03/11	05/04/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/04/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	05/03/11	05/04/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	05/03/11	05/04/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	05/03/11	05/04/11
BLANK	SURROGATE: 2-FLUORBIPHENY	58.5	50-110			%	05/03/11	05/04/11
BLANK	SURROGATE: NITROBENZENE-	84.5	40-110			%	05/03/11	05/04/11
BLANK	SURROGATE: TERPHENYL-D14 (	61.4	50-135			%	05/03/11	05/04/11

Quant Method: SIM2.M
Run #: 0504L005
Instrument: Linus
Sequence: L110420
Initials: LF

GC SC-Blank-REG MDLs
Printed: 05/16/11 6:34:26 PM

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L005.D Vial: 5
Acq On : 4 May 11 18:47 Operator: LF
Sample : 110503A BLK 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 17:43 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2623	2.50000	ppb	0.01
6) Acenaphthene-D10(IS)	8.18	164	1337	2.50000	ppb	0.00
11) Phenanthrene-D10(IS)	9.91	188	2711	2.50000	ppb	0.01
15) Chrysene-D12(IS)	12.97	240	2772	2.50000	ppb	0.01
21) Perylene-D12(IS)	14.58	264	2277	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	342	1.68990	ppb	0.01
Spiked Amount 2.000			Recovery = 84.500%			
7) Surrogate Recovery (FBP)	7.42	172	1230	1.16933	ppb	0.00
Spiked Amount 2.000			Recovery = 58.450%			
17) Surrogate Recovery (TPH)	11.78	244	1497	1.22738	ppb	0.01
Spiked Amount 2.000			Recovery = 61.350%			

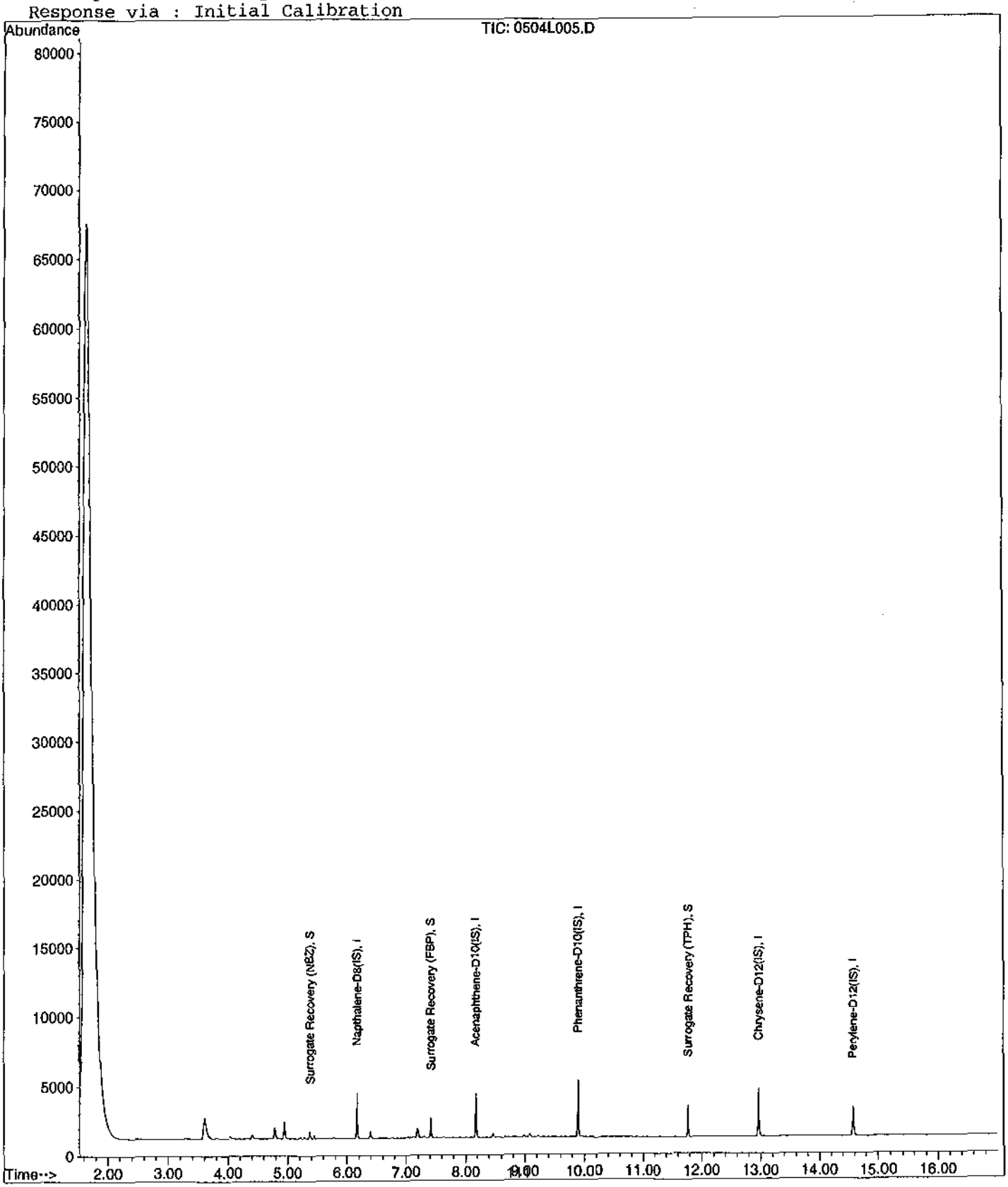
Target Compounds Qvalue

Quantitation Report

Data File : M:\LINUS\DATA\L110420\0504L005.D Vial: 5
Acq On : 4 May 11 18:47 Operator: LF
Sample : 110503A BLK 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 17:43 2011 Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: **110503W-36735 LCS - 155154**
Batch ID: #SIMHC-110503A

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	2.19	54.8	45-105
2-METHYLNAPHTHALENE	4.00	2.08	52.0	45-105
ACENAPHTHENE	4.00	2.68	67.0	45-110
ACENAPHTHYLENE	4.00	2.69	67.3	50-105
ANTHRACENE	4.00	3.64	91.0	55-110
BENZO(A)ANTHRACENE	4.00	3.26	81.5	55-110
BENZO(A)PYRENE	4.00	3.75	93.8	55-110
BENZO(B)FLUORANTHENE	4.00	3.76	94.0	45-120
BENZO(GHI)PERYLENE	4.00	3.64	91.0	40-125
BENZO(K)FLUORANTHENE	4.00	3.53	88.3	45-125
CHRYSENE	4.00	3.79	94.8	55-110
DIBENZ(A,H)ANTHRACENE	4.00	3.67	91.8	40-125
FLUORANTHENE	4.00	3.38	84.5	55-115
FLUORENE	4.00	3.28	82.0	50-110
INDENO(1,2,3-CD)PYRENE	4.00	3.13	78.3	45-125
NAPHTHALENE	4.00	2.03	50.7	40-100
PHENANTHRENE	4.00	3.57	89.3	50-115
PYRENE	4.00	3.50	87.5	50-130
SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.18	59.0	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.74	87.0	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.17	58.5	50-135

Comments: _____

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	05/03/11
Analysis Date :	05/04/11
Instrument :	Linus
Run :	0504L006
Initials :	LF

Printed: 05/16/11 6:34:28 PM

APPL Standard LCS

Quantitation Report (QT Reviewed)

Data File : M:\LINUS\DATA\L110420\0504L006.D Vial: 6
Acq On : 4 May 11 19:13 Operator: LF
Sample : 110503A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 17:43 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration
DataAcq Meth : 87SIMAQ

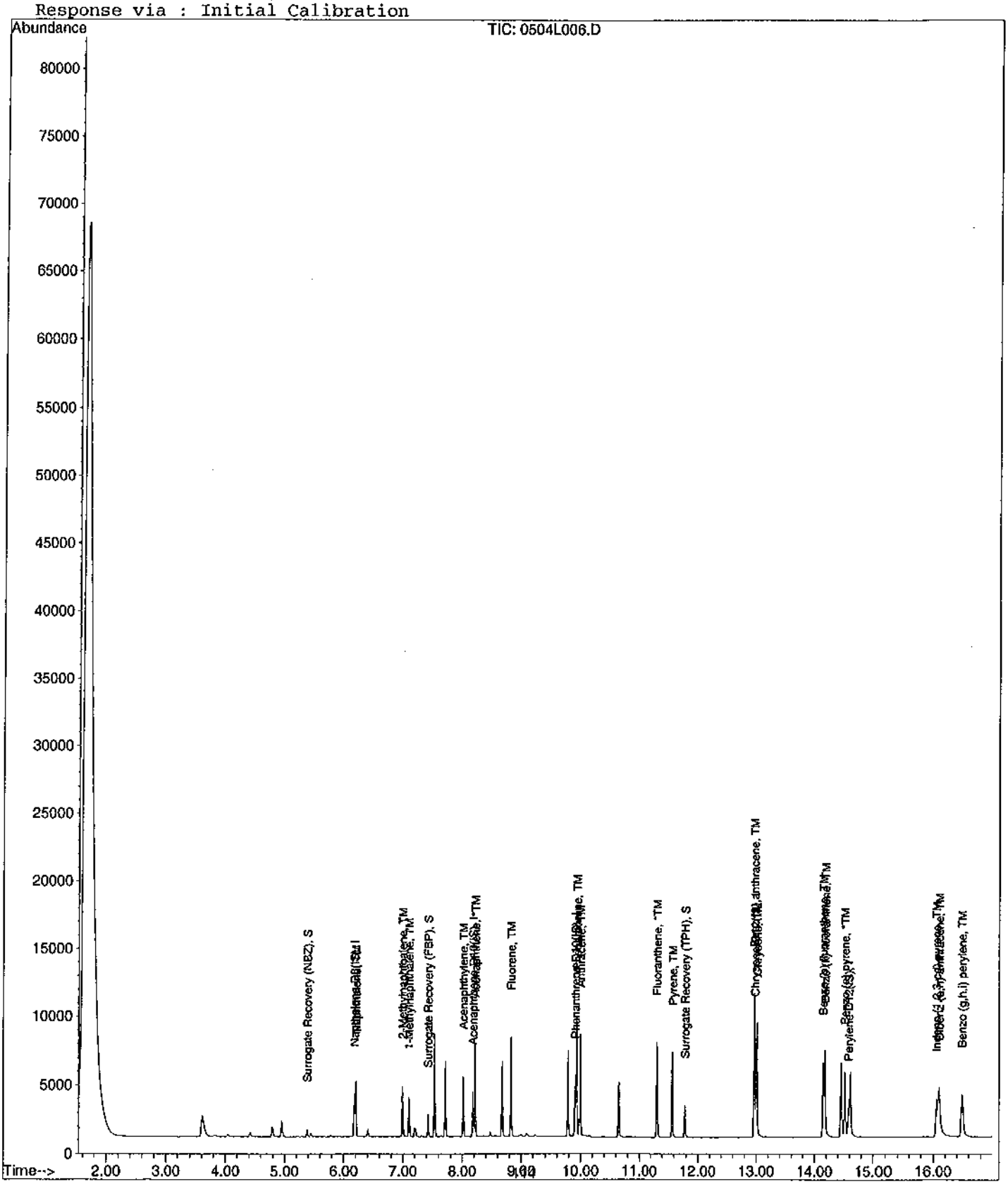
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	6.18	136	2525	2.50000 ppb		0.01
6) Acenaphthene-D10(IS)	8.18	164	1258	2.50000 ppb		0.00
11) Phenanthrene-D10(IS)	9.91	188	2526	2.50000 ppb		0.01
15) Chrysene-D12(IS)	12.97	240	2938	2.50000 ppb		0.01
21) Perylene-D12(IS)	14.58	264	2266	2.50000 ppb		0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	344	1.73854 ppb		0.01
Spiked Amount 2.000			Recovery = 86.950%			
7) Surrogate Recovery (FBP)	7.42	172	1165	1.17709 ppb		0.00
Spiked Amount 2.000			Recovery = 58.850%			
17) Surrogate Recovery (TPH)	11.78	244	1517	1.17350 ppb		0.01
Spiked Amount 2.000			Recovery = 58.650%			
Target Compounds						Qvalue
3) Naphthalene	6.20	128	3141	2.02794 ppb		98
4) 2-Methylnaphthalene	6.99	142	2143	2.07954 ppb		96
5) 1-Methylnaphthalene	7.10	142	2153	2.18856 ppb		94
8) Acenaphthylene	8.01	152	3672	2.68671 ppb		98
9) Acenaphthene	8.22	154	2103	2.67663 ppb		93
10) Fluorene	8.82	166	3096	3.27584 ppb		92
12) Phenanthrene	9.93	178	5368	3.57030 ppb		98
13) Anthracene	9.99	178	4681	3.63667 ppb		99
14) Fluoranthene	11.30	202	7104	3.37544 ppb	#	76
16) Pyrene	11.57	202	7461	3.49524 ppb		98
18) Benz (a) anthracene	12.96	228	6108	3.26478 ppb		98
19) Chrysene	13.01	228	6359	3.78682 ppb		99
20) Indeno (1,2,3-cd) pyrene	16.05	276	4115	3.12784 ppb		90
22) Benzo (b) fluoranthene	14.14	252	6340	3.76109 ppb	#	97
23) Benzo (k) fluoranthene	14.17	252	5333	3.52984 ppb	#	98
24) Benzo (a) pyrene	14.51	252	5422	3.74794 ppb	#	96
25) Dibenz (a,h) anthracene	16.10	278	4583	3.67376 ppb		97
26) Benzo (g,h,i) perylene	16.48	276	4853	3.63947 ppb	#	93

(#) = qualifier out of range (m) = manual integration
0504L006.D SIM2.M Mon May 16 18:17:53 2011 Page 1

Data File : M:\LINUS\DATA\L110420\0504L006.D Vial: 6
Acq On : 4 May 11 19:13 Operator: LF
Sample : 110503A LCS-1 1/1000 Inst : Linus
Misc : Multiplr: 1.00

Quant Time: May 16 17:43 2011 Quant Results File: SIM2.RES

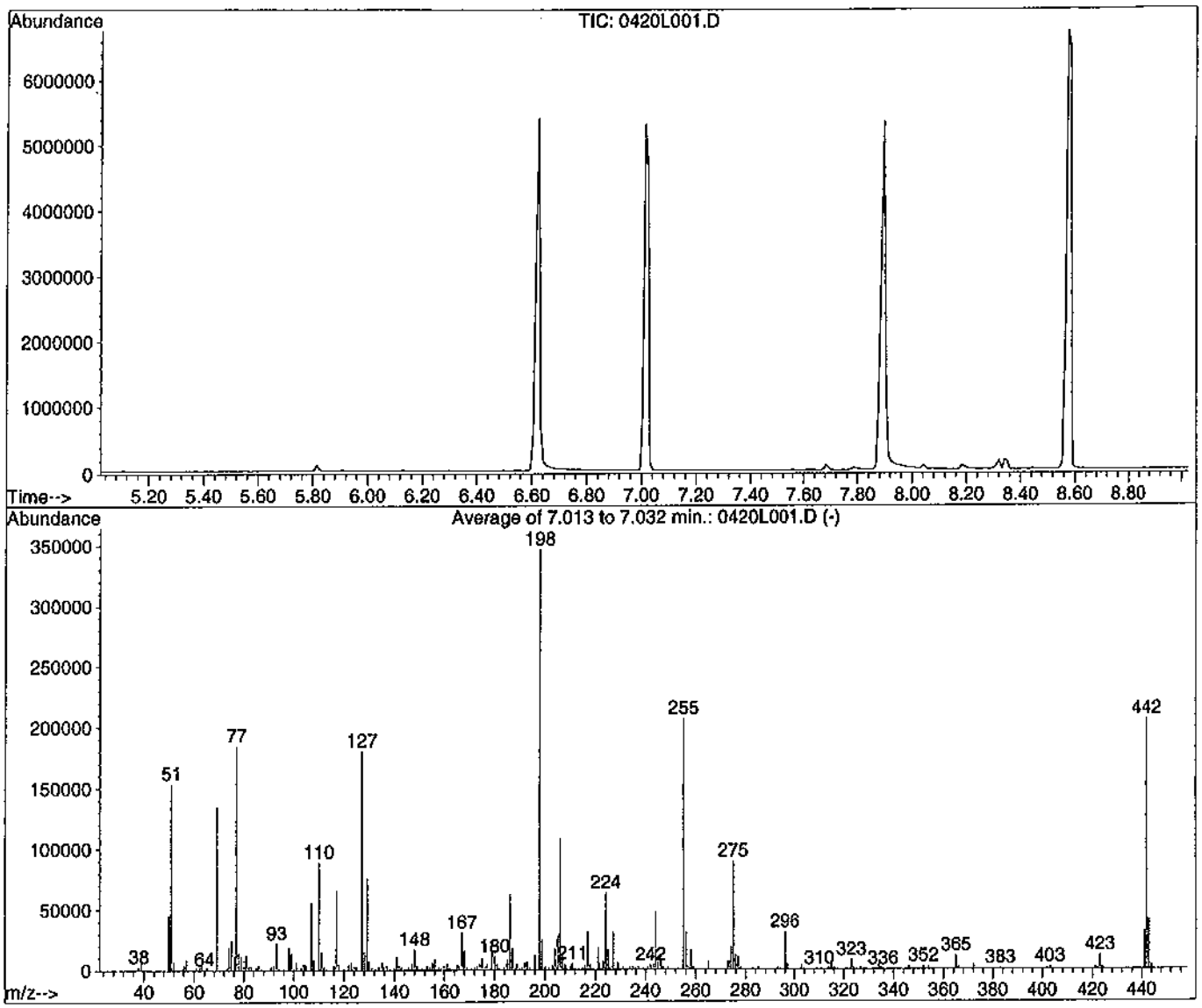
Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon May 16 17:08:29 2011
Response via : Initial Calibration



DFTPP

Data File : M:\LINUS\DATA\L110420\0420L001.D Vial: 1
Acq On : 20 Apr 11 21:00 Operator: LF
Sample : SVTUNE 04-14-11 Inst : Linus
Misc : Multiplr: 1.00

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C



Spectrum Information: Average of 7.013 to 7.032 min.

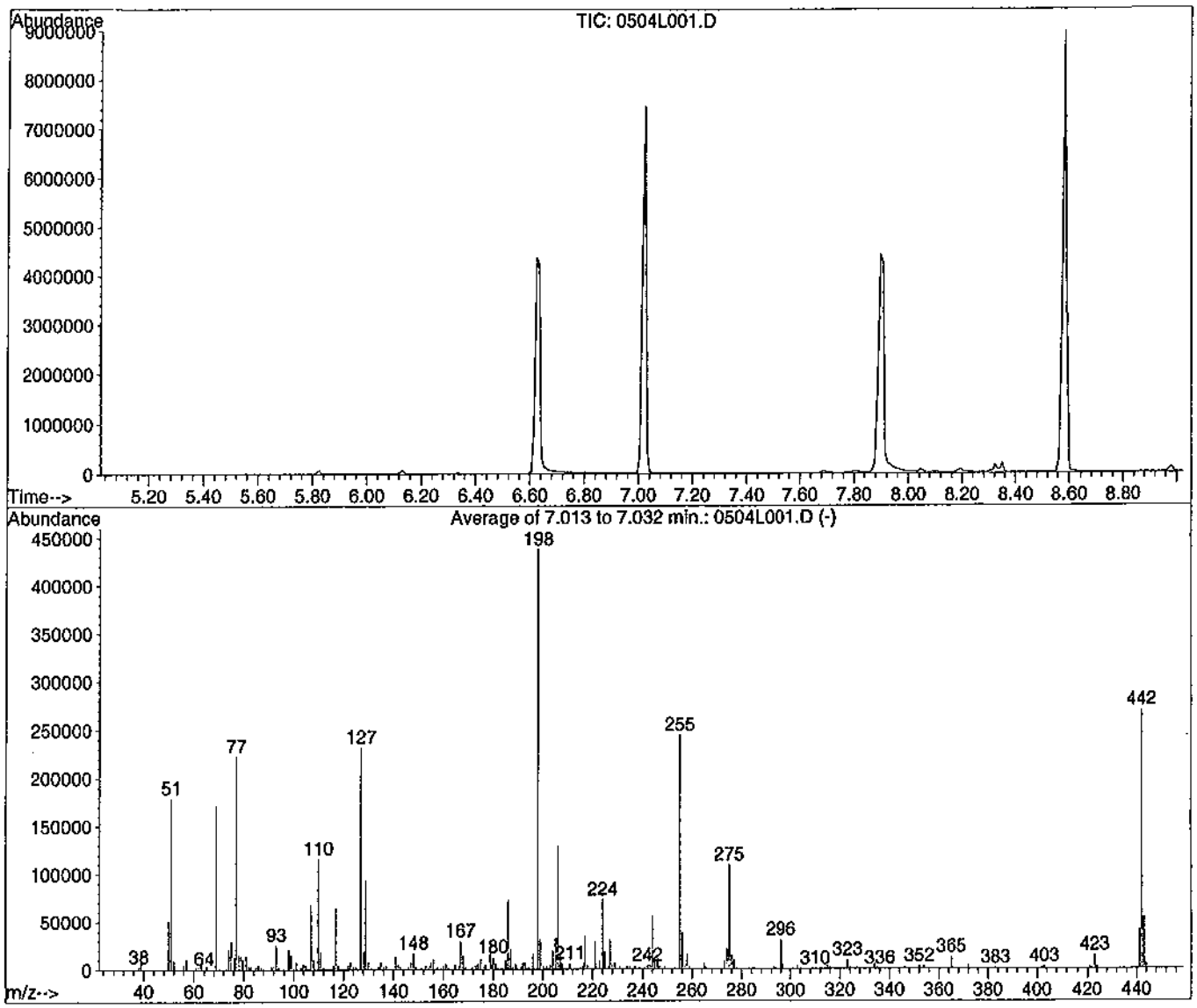
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.3	153818	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	936	PASS
127	198	40	60	52.0	180483	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	346958	PASS
199	198	5	9	7.2	24941	PASS
275	198	10	30	25.7	89331	PASS
365	198	1	100	3.2	11199	PASS
441	443	0.01	100	76.4	31355	PASS
442	198	40	150	59.4	206037	PASS
443	442	17	23	19.9	41055	PASS

0420L001.D SIM2.M Fri Apr 22 15:14:35 2011

DFTPP

Data File : M:\LINUS\DATA\L110420\0504L001.D Vial: 1
Acq On : 4 May 11 17:12 Operator: LF
Sample : SVTUNE 04-14-11 Inst : Linus
Misc : Multiplr: 1.00

Method : M:\LINUS\DATA\L110420\SIM2.M (RTE Integrator)
Title : EPA 8270C



AutoFind: Scans 478, 479, 480; Background Corrected with Scan 475

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.9	179195	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	1207	PASS
127	198	40	60	52.9	231910	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	438226	PASS
199	198	5	9	7.3	31849	PASS
275	198	10	30	24.8	108478	PASS
365	198	1	100	2.8	12198	PASS
441	443	0.01	100	76.8	41023	PASS
442	198	40	150	61.4	269224	PASS
443	442	17	23	19.8	53429	PASS

0504L001.D SIM2.M Mon May 16 18:17:27 2011

LF 3/4/10

PREP DATE:	03-04-10													
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	146582-26313	03/04/10	03-04-11		0	0	0	0	5	5	25	50
	5.0ug/mL	5		03/04/10			0	0	10	20	0	0	0	0
	1.0ug/mL	1		03/04/10			10	20	0	0	0	0	0	0
	Surrogate Stock	VAR	149231-24856	03/04/10	03-04-11		0	0	0	0	5	5	25	50
EM Science	Methylene Chloride		47080				90	80	90	80	190	90	50	0
						Final Vol.	100	100	100	100	200	100	100	100

LF 3/4/10

PREP DATE:	03-04-10				
SIM 8270 Second Source (5µg/mL)					
Exp:	03-18-10				
			Conc.	Date	CODE:	
Supplier	ID #	Lot #	µg/mL	Code	Exp.Date	µL
	8270D PAH SIM (SS)	145112-24097	200	03/04/10	03-04-11	5
	MeCl2	Lot#47080				195
				Final Volume		200

LF 3/12/10

PREP DATE:	03-12-10																
8270T STANDARD CURVE																	
Exp:	04-11-10						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	µL
	8270T Stock	200		02/23/10	08-24-10	0	0	0	5	5	10	20	25	30	40	50
	5.0ug/mL			03/12/10		0	0	20	0	0	0	0	0	0	0	0
	1.0ug/mL			03/12/10		10	20	0	0	0	0	0	0	0	0	0
	Surrogate Stock	VAR	149231-24856	03/04/10	03-04-11	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

LF 3/12/10

PREP DATE:	03-12-10					
8270/625 Second Source (SS) 50ug/mL						
						50
		Conc.		Date	CODE:	
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
	8270C SS	200		02/23/10	08-24-10	25
EM Science	Methylene Chloride		47080			75
					Final Vol.	100

LF 4/6/10

PREP DATE:	04-06-10													
8270 STANDARD CURVE														
Exp:	04-13-10						5	10	20	40	50	60	80	100
		Conc.		Date	CODE:		I	J	K	L	M	N	O	P
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date		µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		03/23/10	08-24-10		5	5	10	20	25	30	40	50
	Surrogate Stock	VAR	149231-24856	03/04/10	03-04-11		5	5	10	20	25	30	40	50
EM Science	Methylene Chloride		47080				190	90	80	60	50	40	20	0
						Final Vol.	200	100	100	100	100	100	100	100

LF 4/6/10

PREP DATE:	04-06-10					
8270/625 Second Source (SS) 50ug/mL						
						50
		Conc.		Date	CODE:	
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
	8270C SS	200		02/23/10	08-24-10	25
EM Science	Methylene Chloride		47080			75
					Final Vol.	100

LF 4/12/10

GCM-150-1
Lot: CF-2995
Exp: 08/31/2011
Semi-Volatiles GC/MS Tuning Standard
4 analyte(s) at 1000 µg/mL in dichloromethane
250 Smith St, N. Kingstown, RI 02852 USA

ULTRA 1 mL

Semi-volatiles GC/MS Tuning Standard
Lot #: CF-2995 - 26132
Rec: 2/17/10 MFR exp. 08/31/11

exp 4/12/11

PREP DATE:	04-12-10					
SV Tune Mix 50ug/ml						
Exp:	04-12-11					
		Conc.		Date	CODE:	S
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
U. Scientific	GCM-150	1000	CF-2995-26132	04/12/10	08-31-11	1000
EM Science	MeCl2		47080			19000
					Final Vol	20000

Part #: 10001 Laboratory Use Only - See MSDS
Lot #: 032009 Exp: 032012 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components CLP Semi-Volatiles Base/Neutrals Mix #1
2000 ug/mL in m Lot #: 032009 - 25510
ABSOLUTE STANDA Rec: 11/17/09 MFR exp. 03/20/12

Part #: 10002 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073112 Storage 4 °C
CLP Semi-Volatiles Base/Neutrals Mix #2
14 components CLP Semi-Volatiles Base Neutrals Mix #2
2000 ug/mL in ma Lot #: 073109 - 25516
ABSOLUTE STANDA Rec: 11/17/09 MFR exp. 07/31/12

Part #: 10004 Laboratory Use Only - See MSDS
Lot #: 060407 Exp: 060412 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #1
4 components CLP Semi-Volatiles Toxic Substances #1
2000 ug/mL in m Lot #: 060407 - 25521
ABSOLUTE STANDA Rec: 11/17/09 MFR exp. 06/04/12

Part #: 10005 Laboratory Use Only - See MSDS
Lot #: 121208 Exp: 121213 Storage 4 °C
CLP Semi-Volatiles Toxic Substances #2
8 components CLP Semi-Volatiles Toxic Substances #2
2000 ug/mL in met Lot #: 121208 - 26526
ABSOLUTE STANDAR Rec: 11/17/09 MFR exp. 12/12/13

Part #: 10006 Laboratory Use Only - See MSDS
Lot #: 102109 Exp: 102112 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components CLP Semi-Volatiles - Benzidines
2000 ug/mL in met Lot #: 102109 - 25531
ABSOLUTE STANDAR Rec: 11/17/09 MFR exp. 10/21/12

Part #: 10007 Laboratory Use Only - See MSDS
Lot #: 101409 Exp: 101414 Storage 4 °C
CLP Semi-Volatiles - PAH Standard
17 components CLP Semi-Volatiles - PAH Mix
2000 ug/mL in meti Lot #: 101409 - 25538
ABSOLUTE STANDAR Rec: 11/17/09 MFR exp. 10/14/14

Part #: 10018 Laboratory Use Only - See MSDS
Lot #: 073109 Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Pr EPA Method 8270A - Analytes Mix #8
2000 ug/mL in meti Lot #: 073109 - 25541
ABSOLUTE STANDAR Rec: 11/17/09 MFR exp. 07/31/14

LF 10/6/10

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

o2si Cat. No: 110394-01 Lot No: 158122
TCL Hzd. Soln. 2
Lot #: 158122 - 26459
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 010337-01 Lot No: 158126
Atrazine
Lot #: 158126 - 26457
Rec: 4/19/10 MFR exp. 04/12/12

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

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 110391-01 Lot No: 158119
8270BN Solution 14-4
Lot #: 158119 - 26453
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 110392-01 Lot No: 158120
8270BN Solution 14-3
Lot #: 158120 - 26455
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 110393-01 Lot No: 158121
8270B Acid Solution 4-6
Lot #: 158121 - 26457
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 116070-02 Lot No: 158123
PAH Solution
Lot #: 158123 - 26461
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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

o2si Cat. No: 110396-01 Lot No: 158124
8270 Acid Solution 13-4
Lot #: 158124 - 26463
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

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 - 26465
Rec: 4/19/10 MFR exp. 04/17/13

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

LF exp 10/6/11

LF 10/6/10

02si smart solutions

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

Cat. No: 110397-01
Lot No: 158127

8270 11 Compound Mix
Lot #: 158127 - 26470
Rec: 4/19/10 MFR exp. 04/12/12

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

LF

LF 10/6/10

PREP DATE:	10-06-10					
8270C Second Source Stock Standard						
Exp:	10-06-11					
		Conc.		Date	CODE:	F
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	µL
O2SI	110391-01	2000	158119-26453	10-6-10A	04-17-13	1000
O2SI	110392-01	2000	158120-26455	10-6-10B	04-17-13	1000
O2SI	110393-01	2000	158121-26457	10-6-10C	04-17-13	1000
O2SI	110394-01	2000	158122-26459	10-6-10D	04-17-13	1000
O2SI	116070-02	2000	158123-26461	10-6-10F	04-17-13	1000
O2SI	110395-01	2000	158125-26465	10-6-10G	04-17-13	1000
O2SI	110396-01	2000	158124-26463	10-6-10H	04-17-13	1000
O2SI	110397-01	2000	158127-26470	10-6-10I	04-12-12	1000
O2SI	010337-01	1000	158136-26467	10-6-10J	04-12-12	1000
EM Science	MeCl2		47080			1000
					Final Vol	10000

LF

LF 10/7/10

02si smart solutions

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

Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25767
Rec: 12/30/09 MFR exp. 07/29/11

Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

LF

exp 4/7/11

LF 10/7/10

02si smart solutions

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

Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25768
Rec: 12/30/09 MFR exp. 07/29/11

Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

LF

exp 4/7/11

LF 10/7/10

02si smart solutions

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

Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25769
Rec: 12/30/09 MFR exp. 07/29/11

Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

LF

exp 4/7/11

LF 10/7/10

02si smart solutions

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

Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25761
Rec: 12/30/09 MFR exp. 07/29/11

Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

LF

exp 4/7/11

LF 10/7/10

02si smart solutions

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

Cat. No: 110004-17
Lot No: 149231
8270 BN:A (200:400) Surrogate Solution
Lot #: 149231 - 25762
Rec: 12/30/09 MFR exp. 07/29/11

Exp: 7/29/2011
Storage: </= -10 Degrees C
Solvent: Methylene Chloride
For Research Use Only

LF

exp 4/7/11

VF 1/17/11

PREP DATE:	01-17-11					
8270C Stock/Spike Standard						
Exp:	05-29-11					
		Conc.		Date	CODE:	µL
Supplier	ID #	µg/mL	Lot #	Code	Exp.Date	
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
						75
EM Science	Methylene Chloride		47080			
					Final Vol.	100

VF 1/25/11

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
Lot# 167766 Storage 5-10 Degrees C. Exp 4/20/13
Soln: Methylene Chloride

8270 Internal Standard
Lot #: 167768 - 28148
Rec: 1/20/11 MFR exp. 04/20/13

osp 1/25/12

VF 1/25/11

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
Lot# 167766 Storage 5-10 Degrees C. Exp 4/20/13
Soln: Methylene Chloride

8270 Internal Standard
Lot #: 167768 - 28147

osp 1/25/12

LF 3/23/14

Part #: 10001
Lot #: 032009
Laboratory Use Only - See MSDS
Exp: 032012 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in meth
ABSOLUTE STANDARI
CLP Semi-Volatiles Base/Neutrals Mix #1
Lot #: 032009 - 28089
Rec: 1/5/11 MFR exp. 03/20/12

LF

exp 5/29/14

LF 3/23/14

Part #: 10001
Lot #: 032009
Laboratory Use Only - See MSDS
Exp: 032012 Storage 0 °C
CLP Semi-Volatiles Base/Neutrals Mix #1
14 components
2000 ug/mL in met
ABSOLUTE STANDAI
CLP Semi-Volatiles Base/Neutrals Mix #1
Lot #: 032009 - 28090
Rec: 1/5/11 MFR exp. 03/20/12

LF

exp 5/29/14

LF 3/23/14

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 meth
ABSOLUTE STANDAR
CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 27971
Rec: 12/16/10 MFR exp. 07/31/12

LF

exp 5/29/14

LF 3/23/14

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 meti
ABSOLUTE STANDAF
CLP Semi-Volatiles Base Neutrals Mix #2
Lot #: 073109 - 27972
Rec: 12/16/10 MFR exp. 07/31/12

LF

exp 5/29/14

LF 3/23/14

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 meti
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 27976
Rec: 12/16/10 MFR exp. 10/15/14

LF

exp 5/29/14

LF 3/23/14

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 meti
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #1
Lot #: 101509 - 27977
Rec: 12/16/10 MFR exp. 10/15/14

LF

exp 5/29/14

LF 3/23/14

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 meti
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #2
Lot #: 061209 - 27981
Rec: 12/16/10 MFR exp. 06/12/14

LF

exp 5/29/14

LF 3/23/14

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 meti
ABSOLUTE STANDAR
CLP Semi-Volatiles Toxic Substances #2
Lot #: 061209 - 27982
Rec: 12/16/10 MFR exp. 06/12/14

LF

exp 5/29/14

VF 3/23/14

Part #: 10006
Lot #: 120810
Laboratory Use Only - See MSDS
Exp: 120813 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in meth
ABSOLUTE STANDAR
CLP Semi-Volatiles - Benzidines
Lot #: 120810 - 27986
Rec: 12/16/10 MFR exp. 12/08/13

VF

exp 5/29/14

VF 3/23/14

Part #: 10006
Lot #: 120810
Laboratory Use Only - See MSDS
Exp: 120813 Storage 4 °C
CLP Semi-Volatiles - Benzidines
2 components
2000 ug/mL in m
ABSOLUTE STANDA
CLP Semi-Volatiles - Benzidines
Lot #: 120810 - 27987
Rec: 12/16/10 MFR exp. 12/08/13

VF

exp 5/29/14

VF 3/23/14

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 meth
ABSOLUTE STANDARI
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 28015
Rec: 12/16/10 MFR exp. 10/09/14

VF

exp 5/29/14

VF 3/23/14

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 meti
ABSOLUTE STANDAI
CLP Semi-Volatiles - PAH Mix
Lot #: 100909 - 28014
Rec: 12/16/10 MFR exp. 10/09/14

VF

exp 5/29/14

VF 3/23/14

Part #: 10018
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - Ph
2000 ug/mL in meti
ABSOLUTE STANDAR
EPA Method 8270A - Analytes Mix #8
Lot #: 073109 - 27991
Rec: 12/16/10 MFR exp. 07/31/14

VF

exp 5/29/14

VF 3/23/14

Part #: 10018
Lot #: 073109
Laboratory Use Only - See MSDS
Exp: 073114 Storage 4 °C
EPA Method 8270A - Analytes Mix #8
13 components - I
2000 ug/mL in me
ABSOLUTE STANDA
EPA Method 8270A - Analytes Mix #8
Lot #: 073109 - 27992
Rec: 12/16/10 MFR exp. 07/31/14

VF

exp 5/29/14

VF 3/23/14

Part #: 70023
Lot #: 080310
Laboratory Use Only - See MSDS
Exp: 080315 Storage 4 °C
Atrazine
1000 ug/mL in acetor
ABSOLUTE STANDARD
Atrazine
Lot #: 080310 - 28006
Rec: 12/16/10 MFR exp. 08/03/15

VF

exp 5/29/14

VF 3/23/14

Part #: 70023
Lot #: 080310
Laboratory Use Only - See MSDS
Exp: 080315 Storage 4 °C
Atrazine
1000 ug/mL in acet
ABSOLUTE STANDAR
Atrazine
Lot #: 080310 - 28007
Rec: 12/16/10 MFR exp. 08/03/15

VF

exp 5/29/14

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 STANDAI

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
ABSOLUTE STANDARDS, INC.

EPA Method 8270A-Mix#11
Lot #: 121010 - 27996
Rec: 12/16/10 MFR exp. 12/10/13

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
ABSOLUTE STANDAI

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

LF exp 5/29/11

LF 3/27/11

PREP DATE:	03-23-11					
8270C Stock/Spike Standard						
Exp:	05-29-11					
		Conc.		Date	CODE:	F
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

_SBP004S

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	110503A	Extraction Method	SBP004S	Units	mL

Spiked ID 1	SIM Spike 166254-27834		Surrogate ID 1	8270 Surrogate 164394-27499	
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:	05/13/11 0:00	

pH1	2	05/03/11 11:05:00 AM	W Bath Temp	80 °C
pH2	14	05/03/11 11:45:00 AM		
pH3				

Spiked By: DL **Date** 05/03/11 **Witnessed By:** GH **Date** 05/03/11

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	110503A Blk				0.025	1	1000	1	2/14	05/03/11 10:45	
2	110503A LCS-1		0.025	1	0.025	1	1000	1	2/14	05/03/11 10:45	
3	AY36557	AY36557W06			0.025	1	1000	1	2/14	05/03/11 10:45	64520 -- Amber Liter
4	AY36558	AY36558W04			0.025	1	1025	1	2/14	05/03/11 10:45	64520 -- Amber Liter
5	AY36559	AY36559W05			0.025	1	1000	1	2/14	05/03/11 10:45	64520 -- Amber Liter
6	AY36560	AY36560W04			0.025	1	1000	1	2/14	05/03/11 10:45	64520 -- Amber Liter
7	AY36561 MS-1	AY36561W10	0.025	1	0.025	1	1025	1	2/14	05/03/11 10:45	64520 -- VOAs - NP
8	AY36561 MSD-1	AY36561W19	0.025	1	0.025	1	1050	1	2/14	05/03/11 10:45	64520 -- Amber Liter
9	AY36561	AY36561W20			0.025	1	1025	1	2/14	05/03/11 10:45	64520 -- Amber Liter
10	AY36562	AY36562W06			0.025	1	1000	1	2/14	05/03/11 10:45	64520 -- Amber Liter
11	AY36698	AY36698W05			0.025	1	1000	1	2/14	05/03/11 10:45	64540 -- Amber Liter
12	AY36699	AY36699W05			0.025	1	1000	1	2/14	05/03/11 10:45	64540 -- Amber Liter
13	AY36735	AY36735W06			0.025	1	1000	1	2/14	05/03/11 10:45	64544 2-WEEK RUSH -- Amber Liter

RJS 5/3/11

Solvent and Lot#	
MC	VWR 112910A
Na2SO4	0440C237
10N NaOH	3/14/11
1+1 Acid	3/14/11
A. Na2SO4	3/14/11

Extraction COC Transfer	
Extraction lab employee Initials	RJS
GC analyst's Initials	LF
Date	5/4/11
Time	1700
Refrigerator	Hobart

	Technician's Initials
Scanned By	JL
Sample Preparation	JL
Extraction	JL
Concentration	JL

Modified	05/03/11 9:38:09 AM

Reviewed By: RJS **Date** 05/03/11

Injection Log

Directory: M:\LINUS\DATA\L110420\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0420L001.D	1	SVTUNE 04-14-11		20 Apr 11 21:00
2	2	0420L002.D	1	0.1ug/ml PAH 04-20-11		20 Apr 11 21:19
3	3	0420L003.D	1	0.2ug/ml PAH		20 Apr 11 21:44
4	4	0420L004.D	1	0.5ug/ml PAH		20 Apr 11 22:10
5	5	0420L005.D	1	1.0ug/ml PAH		20 Apr 11 22:35
6	6	0420L006.D	1	5.0ug/ml PAH		20 Apr 11 23:01
7	7	0420L007.D	1	10ug/ml PAH		20 Apr 11 23:27
8	8	0420L008.D	1	50ug/ml PAH		20 Apr 11 23:52
9	9	0420L009.D	1	100ug/ml PAH		21 Apr 11 00:18
10	10	0420L010.D	1	5.0ug/ml PAH SS 04-11-11		21 Apr 11 00:43
11	1	0504L001.D	1	SVTUNE 04-14-11		4 May 11 17:12
12	2	0504L002.D	1	5.0ug/ml PAH 04-20-11		4 May 11 17:30
13	5	0504L005.D	1	110503A BLK 1/1000		4 May 11 18:47
14	6	0504L006.D	1	110503A LCS-1 1/1000		4 May 11 19:13
15	28	0504L028.D	1	AY36735W06 1/1000		5 May 11 4:35

EPA METHOD 8260B
Volatile Organic Compounds

EPA METHOD 8260B
Volatile Organic Compounds
QC Summary

APPL, INC.

Method Blank

EPA 8260B VOCs + Gas Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110502W-36735 - 154887**
Batch ID: #86RHB-110502AC

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	05/03/11	05/03/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	05/03/11	05/03/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	05/03/11	05/03/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	05/03/11	05/03/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	05/03/11	05/03/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	05/03/11	05/03/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	05/03/11	05/03/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	05/03/11	05/03/11
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	05/03/11	05/03/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	05/03/11	05/03/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	05/03/11	05/03/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	05/03/11	05/03/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	05/03/11	05/03/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	05/03/11	05/03/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	05/03/11	05/03/11
BLANK	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	05/03/11	05/03/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	05/03/11	05/03/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	05/03/11	05/03/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11

Quant Method:C86DODW.M
Run #:0502C20
Instrument:Chico
Sequence:C110502
Initials:DG

GC SC-Blank-REG MDLs
Printed: 05/16/11 8:37:58 PM

Method Blank

EPA 8260B VOCs + Gas Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110502W-36735 - 154887**
Batch ID: #86RHB-110502AC

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	05/03/11	05/03/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	05/03/11	05/03/11
BLANK	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	05/03/11	05/03/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	05/03/11	05/03/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	SURROGATE: 1,2-DICHLOROET	110	70-120			%	05/03/11	05/03/11
BLANK	SURROGATE: 4-BROMOFLUORO	96.1	75-120			%	05/03/11	05/03/11
BLANK	SURROGATE: DIBROMOFLUOR	109	85-115			%	05/03/11	05/03/11
BLANK	SURROGATE: TOLUENE-D8 (S)	107	85-120			%	05/03/11	05/03/11

Quant Method:C86DODW.M
Run #:0502C20
Instrument:Chico
Sequence:C110502
Initials:DG

GC SC-Blank-REG MDLs

Printed: 05/16/11 8:37:58 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64544

Case No: 64544 Date Analyzed: 05/03/11

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)	SURROGATE: 4-BROMOFLUOROBENZENE (S)
110502AC-LCS	Lab Control Spike	109	99.1
110502AC-BLK	Blank	110	96.1
AY36736	ES034	104	94.0
AY36735	ES033	100.0	98.1

Comments: Batch: #86RHB-110502AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 64544

Case No: 64544 Date Analyzed: 05/03/11

Matrix: WATER Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)	SURROGATE: TOLUENE-D8 (S)
110502AC-LCS	Lab Control Spike	110	105
110502AC-BLK	Blank	109	107
AY36736	ES034	108	105
AY36735	ES033	100	108

Comments: Batch: #86RHB-110502AC

Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: **110503W-36735 LCS - 154887**
Batch ID: #86RHB-110502AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	9.89	98.9	80-130
1,1,1-TRICHLOROETHANE	10.00	9.56	95.6	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	9.34	93.4	65-130
1,1,2-TRICHLOROETHANE	10.00	8.92	89.2	75-125
1,1-DICHLOROETHANE	10.00	9.87	98.7	70-135
1,1-DICHLOROETHENE	10.00	9.91	99.1	70-130
1,2,3-TRICHLOROPROPANE	10.00	10.4	104	75-125
1,2,4-TRICHLOROBENZENE	10.00	8.81	88.1	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	9.20	92.0	50-130
1,2-DIBROMOETHANE	10.00	9.87	98.7	70-130
1,2-DICHLOROBENZENE	10.00	10.3	103	70-120
1,2-DICHLOROETHANE	10.00	9.27	92.7	70-130
1,2-DICHLOROPROPANE	10.00	8.94	89.4	75-125
1,3-DICHLOROBENZENE	10.00	10.5	105	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	18.1	90.5	70-130
1,4-DICHLOROBENZENE	10.00	10.0	100	75-125
2-BUTANONE	10.00	8.57	85.7	30-150
4-METHYL-2-PENTANONE	10.00	10.1	101	60-135
ACETONE	10.00	10.3	103	40-140
BENZENE	10.00	9.61	96.1	80-120
BROMODICHLOROMETHANE	10.00	9.37	93.7	75-120
BROMOFORM	10.00	8.86	88.6	70-130
BROMOMETHANE	10.00	10.2	102	30-145
CARBON TETRACHLORIDE	10.00	9.71	97.1	65-140
CHLOROBENZENE	10.00	9.82	98.2	80-120
CHLORODIBROMOMETHANE	10.00	9.32	93.2	60-135

Comments:

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	05/03/11
Analysis Date :	05/03/11
Instrument :	Chico
Run :	0502C17
Initials :	DG

Printed: 05/16/11 8:38:06 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **110503W-36735 LCS - 154887**
Batch ID: #86RHB-110502AC

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	9.47	94.7	65-135
CHLOROMETHANE	10.00	8.49	84.9	40-125
CIS-1,2-DICHLOROETHENE	10.00	9.86	98.6	70-125
ETHYLBENZENE	10.00	10.0	100	75-125
GASOLINE	300	317	106	75-125
HEXACHLOROBUTADIENE	10.00	10.7	107	50-140
METHYL TERT-BUTYL ETHER	10.00	9.36	93.6	65-125
METHYLENE CHLORIDE	10.00	8.66	86.6	55-140
STYRENE	10.00	9.44	94.4	65-135
TETRACHLOROETHENE	10.00	10.2	102	45-150
TOLUENE	10.00	10.0	100	75-120
TRANS-1,2-DICHLOROETHENE	10.00	10.4	104	60-140
TRICHLOROETHENE	10.00	9.72	97.2	70-125
VINYL CHLORIDE	10.00	8.91	89.1	50-145
XYLENES (TOTAL)	30.0	30.6	102	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	22.3	24.4	109	70-120
SURROGATE: 4-BROMOFLUOROBENZE	26.3	26.1	99.1	75-120
SURROGATE: DIBROMOFLUOROMETH	23.5	25.8	110	85-115
SURROGATE: TOLUENE-D8 (S)	26.0	27.3	105	85-120

Comments:

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	05/03/11
Analysis Date :	05/03/11
Instrument :	Chico
Run :	0502C17
Initials :	DG

Printed: 05/16/11 8:38:06 PM

APPL Standard LCS

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 64544

Case No: 64544 Date Analyzed: 05/03/11

Matrix: WATER Instrument: Chico

Blank ID: 110502AC-BLK Time Analyzed: 0505

APPL ID.	Client Sample No.	File ID.	Date Analyzed
110502AC-LCS	Lab Control Spike	0502C17	05/03/11 0210
110502AC-BLK	Blank	0502C20	05/03/11 0505
AY36736	ES034	0502C21	05/03/11 0541
AY36735	ES033	0502C22	05/03/11 0616

Comments: Batch: #86RHB-110502AC

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: 64544
Matrix: Water
ID: 20ug/ml BFB STD 04-15-11A

SDG No: 64544
Date Analyzed: 05/03/11
Instrument: Chico
Time Analyzed: 0:25

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Lab Control Spike	110502A LCS-1WC (SS)	0502C17W.D	05/03/11 2:10
2	Blank	110502A BLK-1WC	0502C20W.D	05/03/11 5:05
3	ES034	AY36736W01	0502C21W.D	05/03/11 5:41
4	ES033	AY36735W01	0502C22W.D	05/03/11 6:16
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	23.4
75	30 - 60% of mass 95	51.4
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	7.2
173	0 - 2% of mass 174	0.5
174	50 - 100% of mass 95	57.5
175	5 - 9% of mass 174	6.6
176	95 - 101% of mass 174	96.2
177	5 - 9% of mass 176	6.3

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review

Lab Code: _____ SDG No.: 64544

Lab File ID (Standard): 0502C09W.D Date Analyzed: 2 May 11 20:19

Instrument ID: Chico Time Analyzed: 2 May 11 20:19

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	134080	12.89	78120	18.08	42752	22.27
	UPPER LIMIT	268160	13.39	156240	18.58	85504	22.77
	LOWER LIMIT	67040	12.39	39060	17.58	21376	21.77
	SAMPLE NO.						
01	Vol Std 05-02-11@10ug	137344	12.87	79304	18.07	42280	22.27
02	110502A LCS-1WC (SS	148352	12.88	83328	18.07	43664	22.27
03	110502A BLK-1WC	140352	12.88	77648	18.07	39256	22.26
04	AY36736W01	136512	12.88	76144	18.07	37048	22.26
05	AY36735W01	149824	12.88	77432	18.07	39904	22.27
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

EPA METHOD 8260B
Volatile Organic Compounds
Sample Data

APPL, INC.

EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64544

Sample ID: ES033

APPL ID: AY36735

Sample Collection Date: 04/28/11

QCG: #86RHB-110502AC-154887

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	05/03/11	05/03/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	05/03/11	05/03/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	05/03/11	05/03/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	05/03/11	05/03/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	05/03/11	05/03/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	05/03/11	05/03/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	05/03/11	05/03/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	05/03/11	05/03/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	05/03/11	05/03/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	05/03/11	05/03/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	05/03/11	05/03/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	05/03/11	05/03/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	05/03/11	05/03/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	05/03/11	05/03/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	05/03/11	05/03/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	05/03/11	05/03/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	05/03/11	05/03/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	05/03/11	05/03/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	05/03/11	05/03/11

Quant Method: C86DODW.M
Run #: 0502C22
Instrument: Chico
Sequence: C110502
Dilution Factor: 1
Initials: DG

Printed: 05/16/11 8:38:11 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64544

Sample ID: ES033

APPL ID: AY36735

Sample Collection Date: 04/28/11

QCG: #86RHB-110502AC-154887

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	05/03/11	05/03/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	05/03/11	05/03/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	05/03/11	05/03/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	100.0	70-120			%	05/03/11	05/03/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	98.1	75-120			%	05/03/11	05/03/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	100	85-115			%	05/03/11	05/03/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	108	85-120			%	05/03/11	05/03/11

Quant Method:	C86DODW.M
Run #:	0502C22
Instrument:	Chico
Sequence:	C110502
Dilution Factor:	1
Initials:	DG

Printed: 05/16/11 8:38:11 PM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C22W.D Vial: 1
Acq On : 3 May 11 6:16 Operator: RS
Sample : AY36735W01 Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 7 16:25 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.88	96	149824	25.00000 ppb	-0.01
35) Chlorobenzene-D5 (IS)	18.07	117	77432	25.00000 ppb	0.00
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	39904	25.00000 ppb	0.00
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.45	111	107469	23.58557 ppb	-0.01
Spiked Amount 23.521			Recovery = 100.278%		
23) 1,2-DCA-D4(S)	12.27	65	99067	22.31100 ppb	0.00
Spiked Amount 22.321			Recovery = 99.957%		
36) Toluene-D8(S)	15.54	98	360811	28.07343 ppb	0.00
Spiked Amount 26.002			Recovery = 107.966%		
44) 4-Bromofluorobenzene(S)	20.14	95	131832	25.84461 ppb	0.00
Spiked Amount 26.339			Recovery = 98.126%		

Target Compounds Qvalue

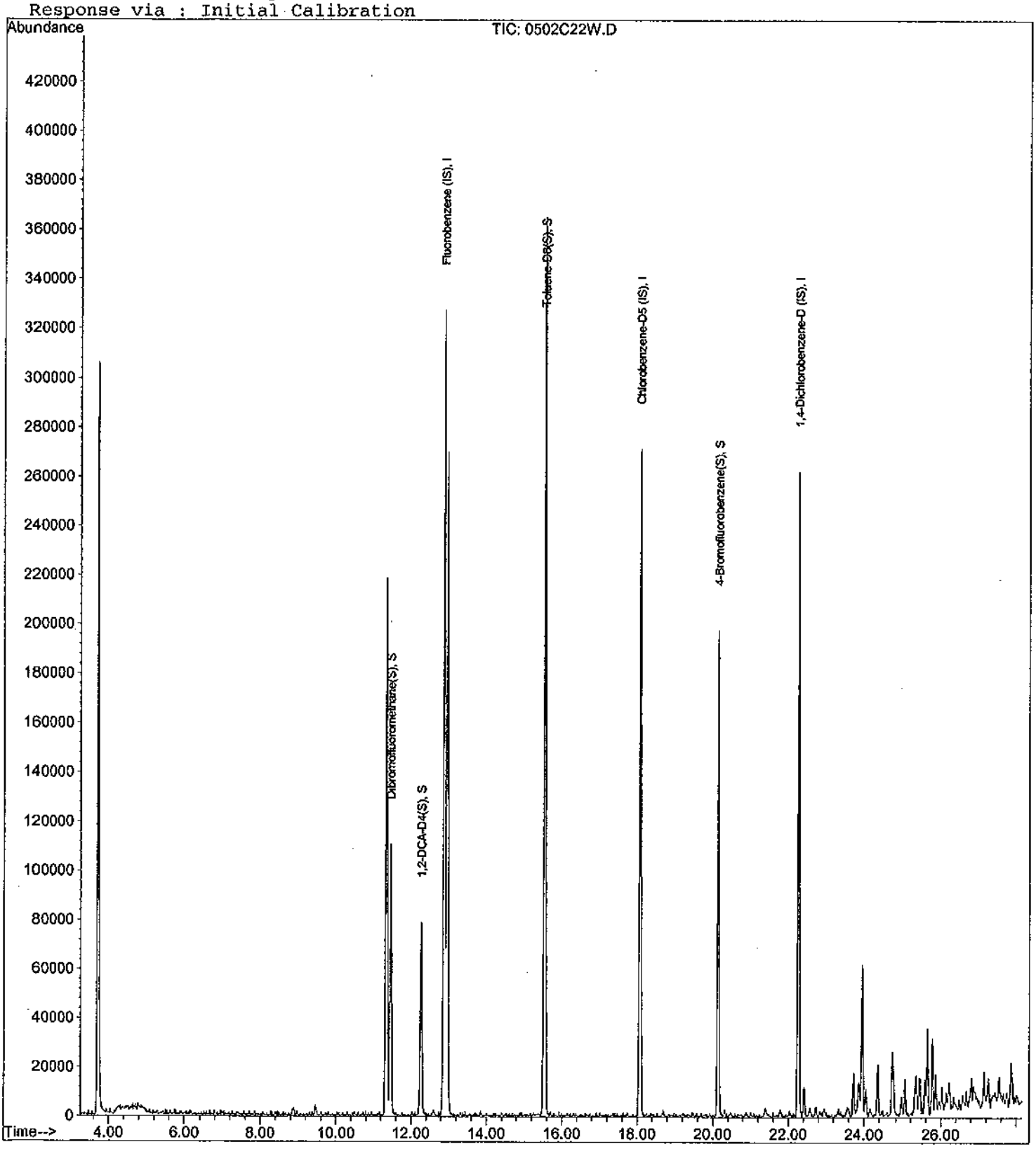
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C22W.D Vial: 1
Acq On : 3 May 11 6:16 Operator: RS
Sample : AY36735W01 Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 7 16:25 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C22W.D Vial: 1
Acq On : 3 May 11 6:16 Operator: RS
Sample : AY36735W01 Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 16 20:30 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.88	TIC	327052	25.00000 ppb	-0.03
4) Chlorobenzene-D5 (IS)	18.07	TIC	271034	25.00000 ppb	-0.03
7) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	262132	25.00000 ppb	-0.03
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.45	TIC	348941	19.21705 ppb	-0.03
Spiked Amount 23.521			Recovery =	81.701%	
5) Toluene-D8(S)	15.54	TIC	1055453	30.79519 ppb	-0.03
Spiked Amount 26.002			Recovery =	118.433%	
6) 4-Bromofluorobenzene(S)	20.14	TIC	548048	24.03708 ppb	-0.03
Spiked Amount 26.339			Recovery =	91.260%	

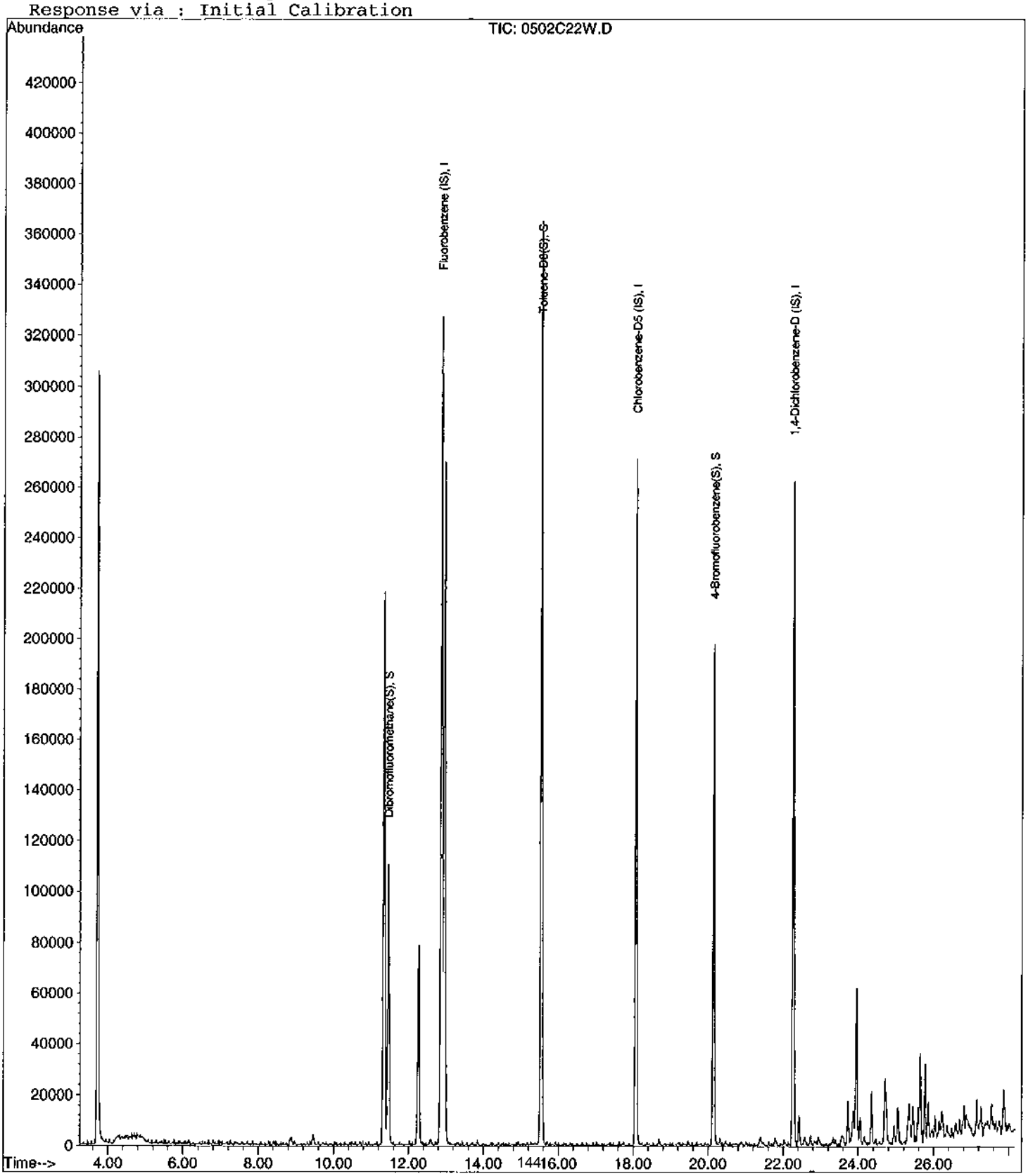
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C22W.D Vial: 1
Acq On : 3 May 11 6:16 Operator: RS
Sample : AY36735W01 Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 16 20:30 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

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

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES034
Sample Collection Date: 04/28/11

ARF: 64544
APPL ID: AY36736
QCG: #86RHB-110502AC-154887

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	05/03/11	05/03/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	05/03/11	05/03/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	05/03/11	05/03/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	05/03/11	05/03/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	05/03/11	05/03/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	05/03/11	05/03/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	05/03/11	05/03/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	05/03/11	05/03/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	05/03/11	05/03/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	05/03/11	05/03/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	05/03/11	05/03/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	05/03/11	05/03/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	05/03/11	05/03/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	05/03/11	05/03/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	05/03/11	05/03/11
EPA 8260B	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	05/03/11	05/03/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	05/03/11	05/03/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	05/03/11	05/03/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	05/03/11	05/03/11

Quant Method: C86DODW.M
Run #: 0502C21
Instrument: Chico
Sequence: C110502
Dilution Factor: 1
Initials: DG

Printed: 05/16/11 8:38:11 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: Vilma Dupra

Project: LTM Red Hill Bulk Fuel Storage Facility

ARF: 64544

Sample ID: ES034

APPL ID: AY36736

Sample Collection Date: 04/28/11

QCG: #86RHB-110502AC-154887

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	05/03/11	05/03/11
EPA 8260B	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	05/03/11	05/03/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	05/03/11	05/03/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	104	70-120			%	05/03/11	05/03/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	94.0	75-120			%	05/03/11	05/03/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	108	85-115			%	05/03/11	05/03/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	105	85-120			%	05/03/11	05/03/11

Quant Method: C86DODW.M
Run #: 0502C21
Instrument: Chico
Sequence: C110502
Dilution Factor: 1
Initials: DG

Printed: 05/16/11 8:38:11 PM

APPL-F1-SC-NoMC-REG MDLs

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C21W.D Vial: 1
Acq On : 3 May 11 5:41 Operator: RS
Sample : AY36736W01 Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 7 16:24 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.88	96	136512	25.00000 ppb	-0.01
35) Chlorobenzene-D5 (IS)	18.07	117	76144	25.00000 ppb	-0.01
51) 1,4-Dichlorobenzene-D (IS)	22.26	152	37048	25.00000 ppb	-0.01
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.46	111	105287	25.35995 ppb	-0.01
Spiked Amount 23.521			Recovery = 107.821%		
23) 1,2-DCA-D4(S)	12.26	65	93942	23.21991 ppb	-0.01
Spiked Amount 22.321			Recovery = 104.029%		
36) Toluene-D8(S)	15.53	98	344558	27.26232 ppb	-0.01
Spiked Amount 26.002			Recovery = 104.847%		
44) 4-Bromofluorobenzene(S)	20.14	95	124195	24.75929 ppb	0.00
Spiked Amount 26.339			Recovery = 94.003%		

Target Compounds Qvalue

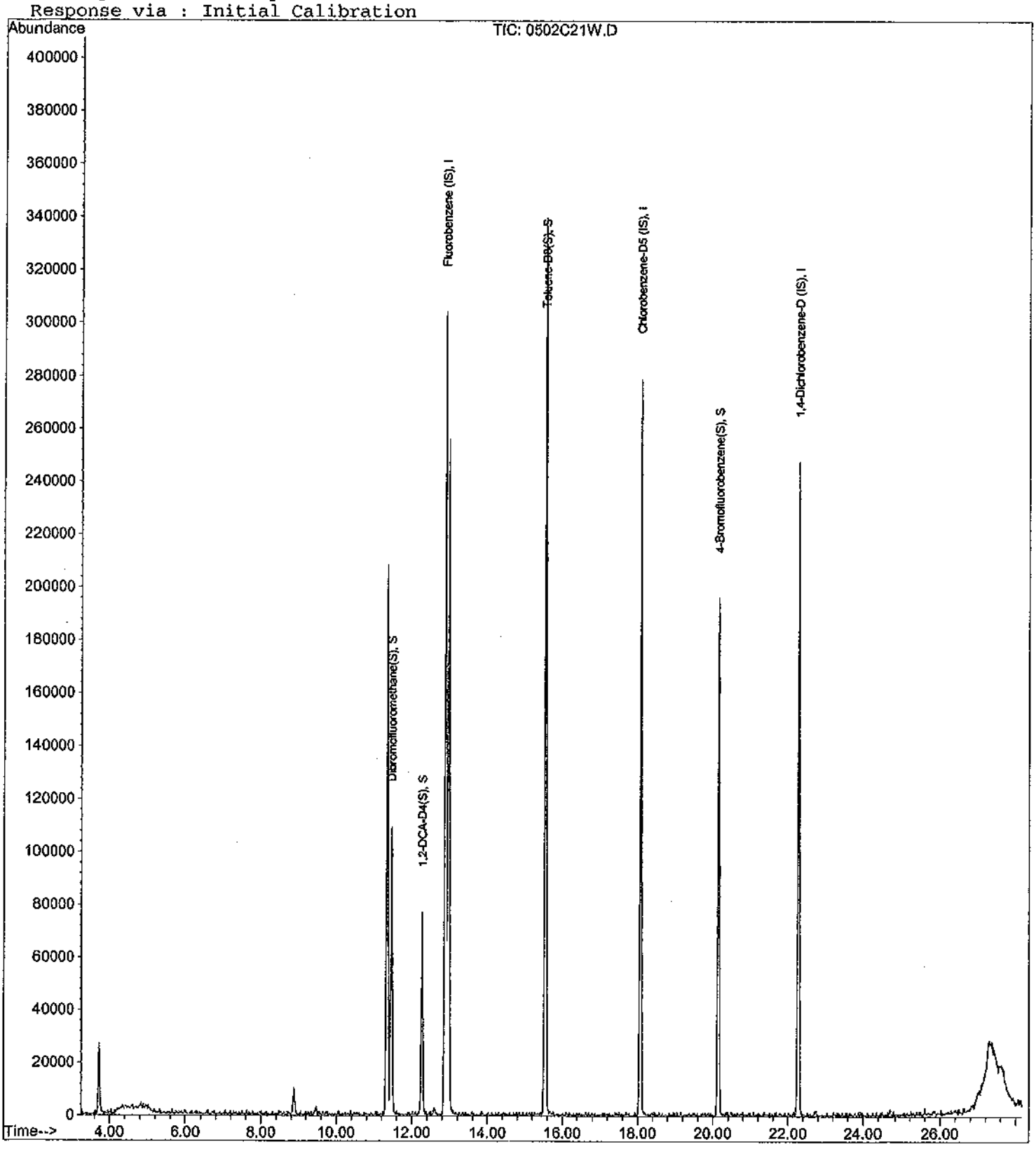
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C21W.D Vial: 1
Acq On : 3 May 11 5:41 Operator: RS
Sample : AY36736W01 Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 7 16:24 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C21W.D Vial: 1
Acq On : 3 May 11 5:41 Operator: RS
Sample : AY36736W01 Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 16 20:30 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.88	TIC	303979	25.00000 ppb	-0.02
4) Chlorobenzene-D5 (IS)	18.07	TIC	278811	25.00000 ppb	-0.03
7) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	247500	25.00000 ppb	-0.02
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.46	TIC	337664	20.00750 ppb	-0.02
Spiked Amount 23.521			Recovery =	85.060%	
5) Toluene-D8(S)	15.53	TIC	1007820	28.58517 ppb	-0.03
Spiked Amount 26.002			Recovery =	109.934%	
6) 4-Bromofluorobenzene(S)	20.14	TIC	541182	23.07387 ppb	-0.03
Spiked Amount 26.339			Recovery =	87.604%	

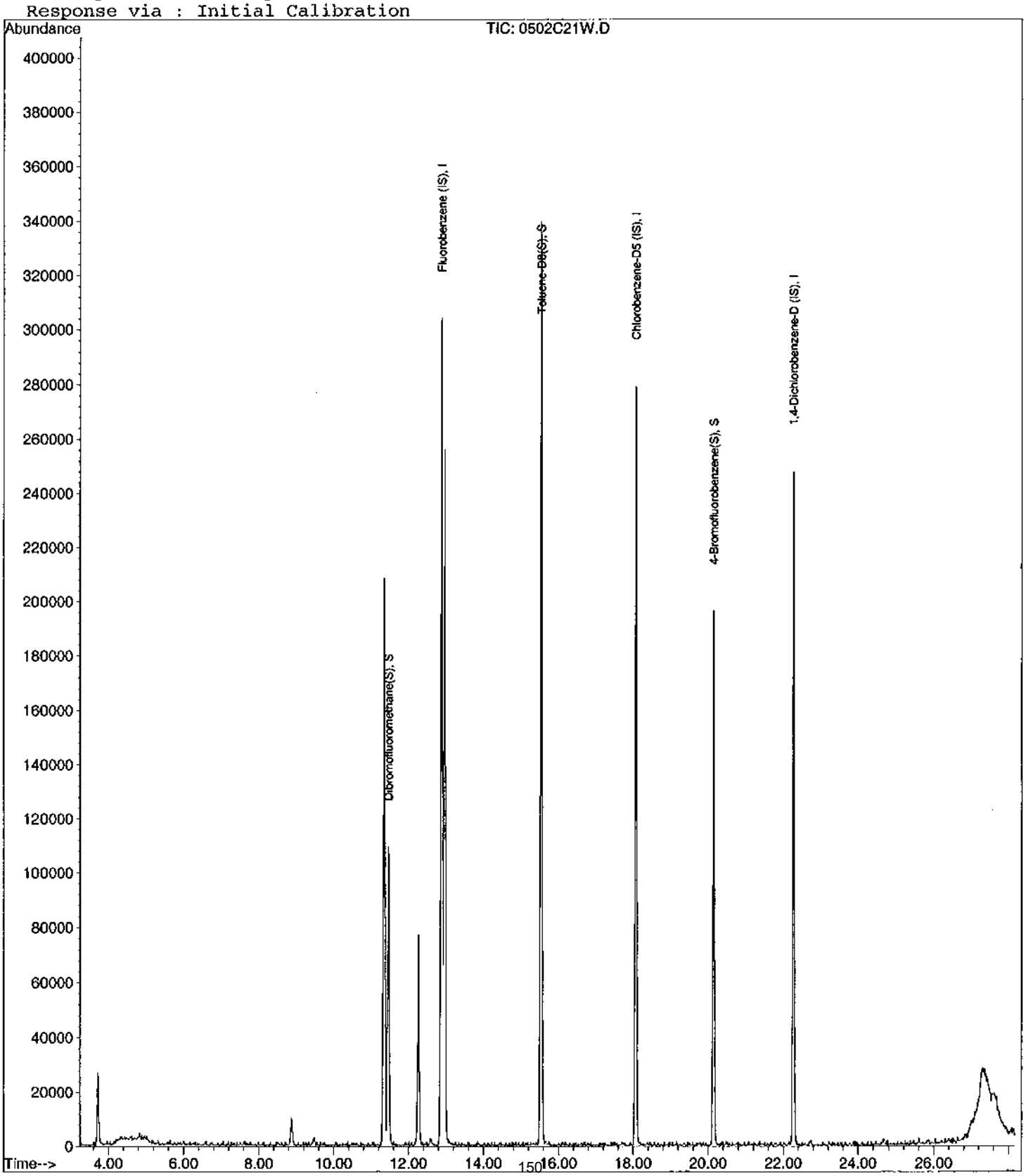
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C21W.D Vial: 1
Acq On : 3 May 11 5:41 Operator: RS
Sample : AY36736W01 Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 16 20:30 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



EPA METHOD 8260B
Volatile Organic Compounds
Calibration Data

APPL, INC.

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 604564
Case No: Initial Cal. Date: 04/22/11
Matrix: Instrument: Chico

Initials: _____

			0422C14W.D	0422C15W.D	0422C16W.D	0422C17W.D	0422C18W.D	0422C19W.D	0422C20W.D							
		Compound	20	50	100	300	600	800	1000				Avg	%RSD		r^2
1	I	Fluorobenzene (IS)	ISTD													
2	HMBTL	Gasoline	30.0	12.1	7.178	3.536	2.609	2.583	2.348				8.6	117	HMBTL	0.997
3	S	Dibromofluoromethane(S)	1.378	1.372	1.419	1.543	1.292	1.364	1.348				1.4	5.6	S	
4	I	Chlorobenzene-D5 (IS)	ISTD													
5	S	Toluene-D8(S)	3.043	3.195	3.178	3.142	3.128	3.193	3.250				3.2	2.1	S	
6	S	4-Bromofluorobenzene(S)	2.098	2.189	2.231	2.100	2.078	2.028	1.996				2.1	4.0	S	
7	I	1,4-Dichlorobenzene-D (IS)	ISTD													
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																

152

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C14W.D Vial: 1
Acq On : 23 Apr 11 1:03 Operator: RS
Sample : Vol Std 4-22-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	856207	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	954704	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1016439	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.49	TIC	1110214	23.35498 ppb	0.00
Spiked Amount 23.521			Recovery =	99.294%	
5) Toluene-D8(S)	15.56	TIC	3021955	25.03151 ppb	0.00
Spiked Amount 26.002			Recovery =	96.270%	
6) 4-Bromofluorobenzene(S)	20.16	TIC	2110312	26.27634 ppb	0.00
Spiked Amount 26.339			Recovery =	99.761%	
Target Compounds					Qvalue
2) Gasoline	15.56	TIC	20556680m	69.08984 ppb	100

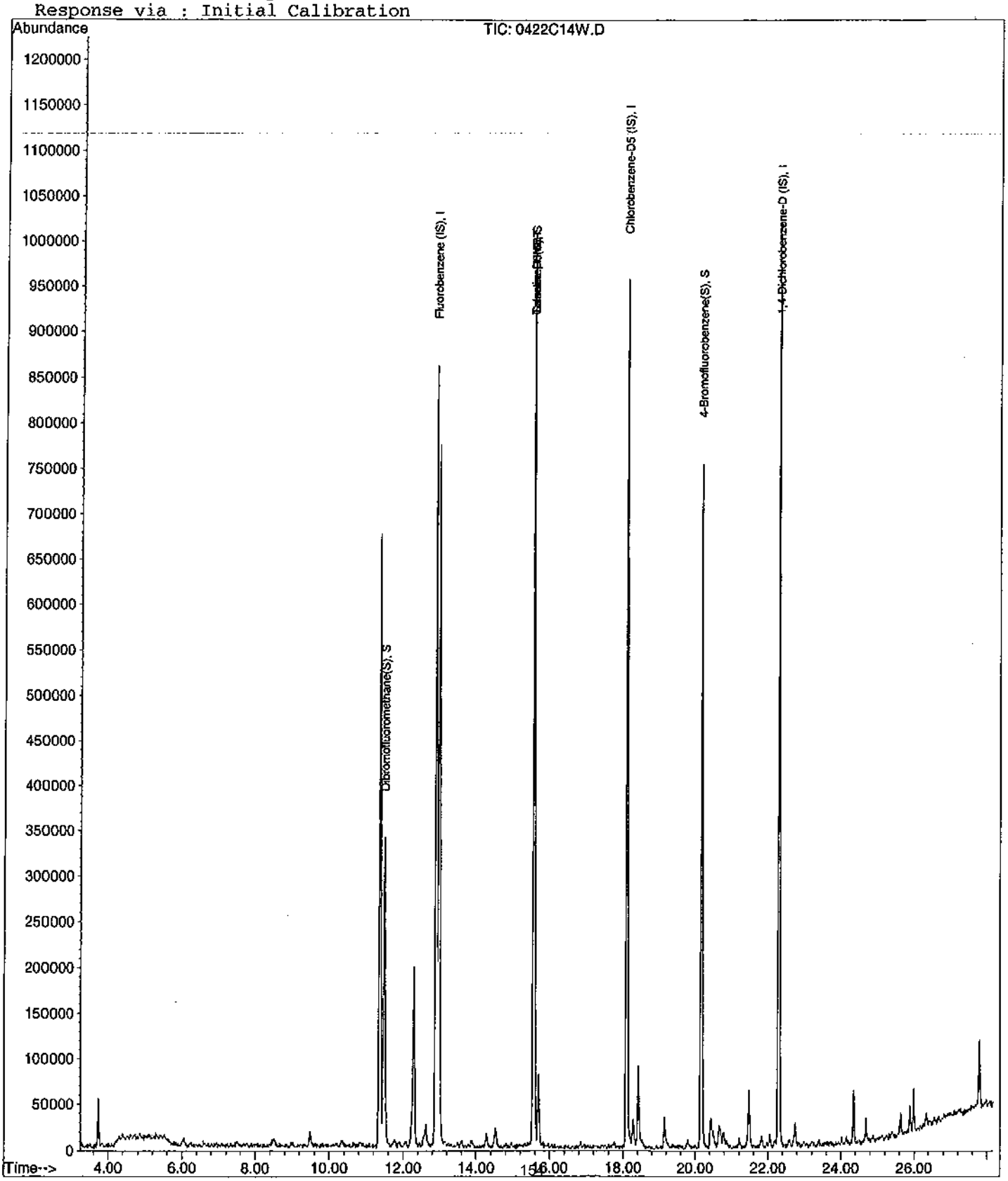
(#) = qualifier out of range (m) = manual integration
0422C14W.D GAS.M Mon May 16 19:47:09 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C14W.D Vial: 1
Acq On : 23 Apr 11 1:03 Operator: RS
Sample : Vol Std 4-22-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C15W.D Vial: 1
Acq On : 23 Apr 11 1:38 Operator: RS
Sample : Vol Std 4-22-11@50ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	836413	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	880090	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	966639	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.48	TIC	1079958	23.25614 ppb	0.00
Spiked Amount 23.521			Recovery = 98.873%		
5) Toluene-D8(S)	15.56	TIC	2924993	26.28243 ppb	0.00
Spiked Amount 26.002			Recovery = 101.077%		
6) 4-Bromofluorobenzene(S)	20.17	TIC	2030076	27.42030 ppb	0.00
Spiked Amount 26.339			Recovery = 104.104%		
Target Compounds					Qvalue
2) Gasoline	15.56	TIC	20251071m	69.67344 ppb	100

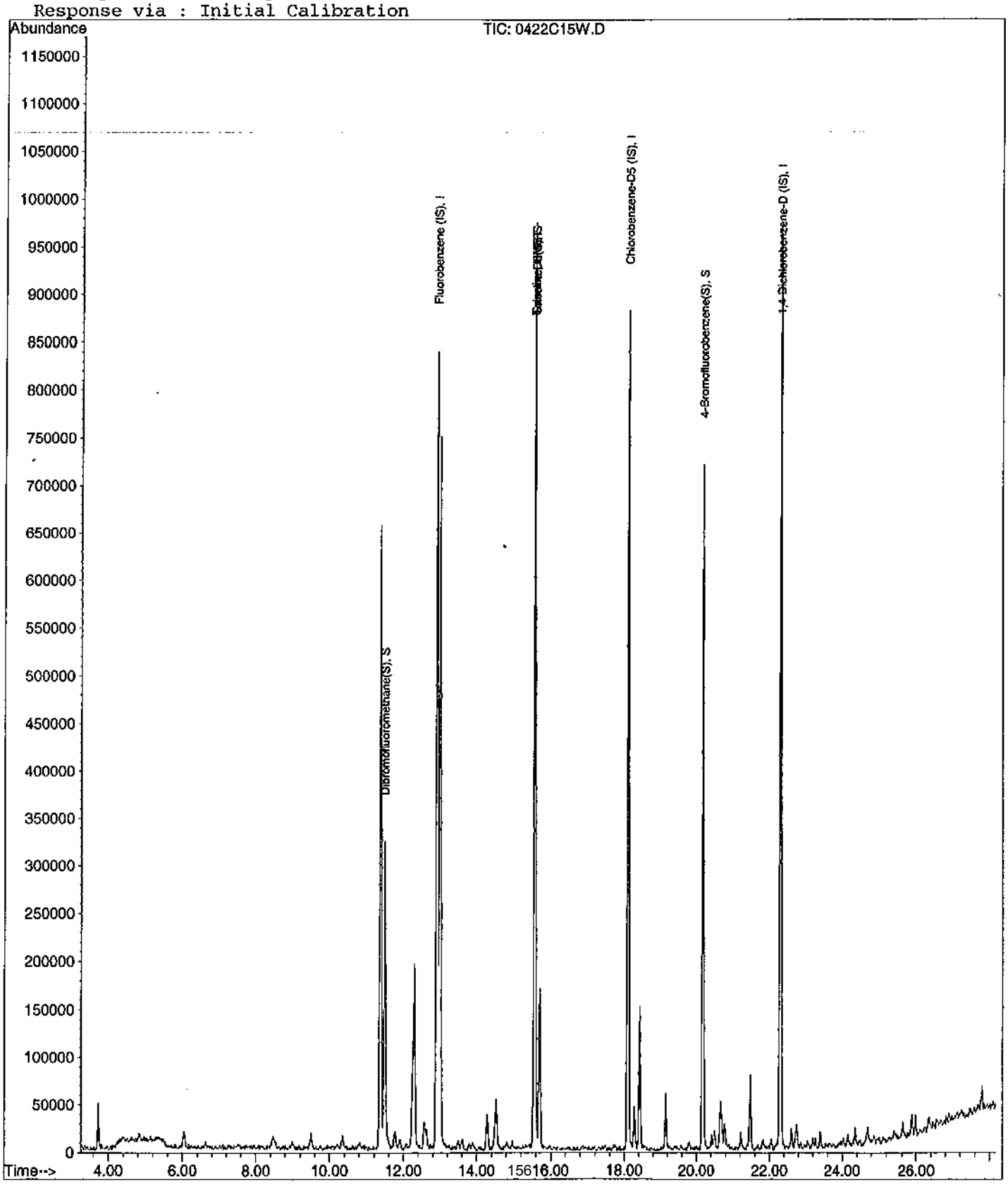
(#) = qualifier out of range (m) = manual integration
0422C15W.D GAS.M Mon May 16 19:47:10 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C15W.D Vial: 1
Acq On : 23 Apr 11 1:38 Operator: RS
Sample : Vol Std 4-22-11@50ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C16W.D Vial: 1
Acq On : 23 Apr 11 2:13 Operator: RS
Sample : Vol Std 4-22-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	796817	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	850460	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.30	TIC	938392	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.48	TIC	1063563	24.04120 ppb	0.00
Spiked Amount 23.521			Recovery = 102.211%		
5) Toluene-D8(S)	15.56	TIC	2810850	26.13675 ppb	0.00
Spiked Amount 26.002			Recovery = 100.519%		
6) 4-Bromofluorobenzene(S)	20.17	TIC	1999437	27.94736 ppb	0.00
Spiked Amount 26.339			Recovery = 106.105%		
Target Compounds					Qvalue
2) Gasoline	15.56	TIC	22879186m	82.62700 ppb	100

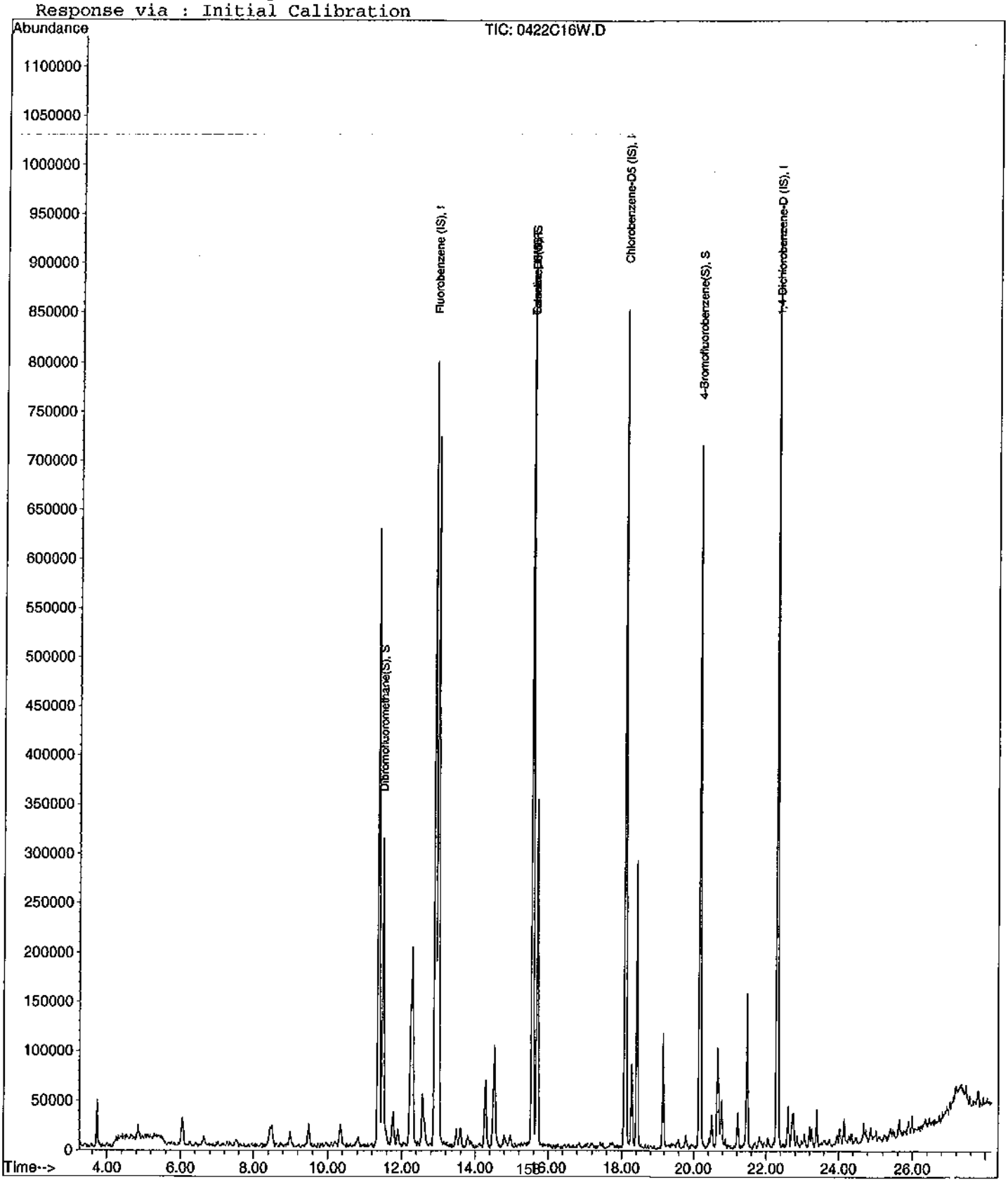
(#) = qualifier out of range (m) = manual integration
0422C16W.D GAS.M Mon May 16 19:47:11 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C16W.D Vial: 1
Acq On : 23 Apr 11 2:13 Operator: RS
Sample : Vol Std 4-22-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C17W.D Vial: 1
Acq On : 23 Apr 11 2:48 Operator: RS
Sample : Vol Std 4-22-11@300ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

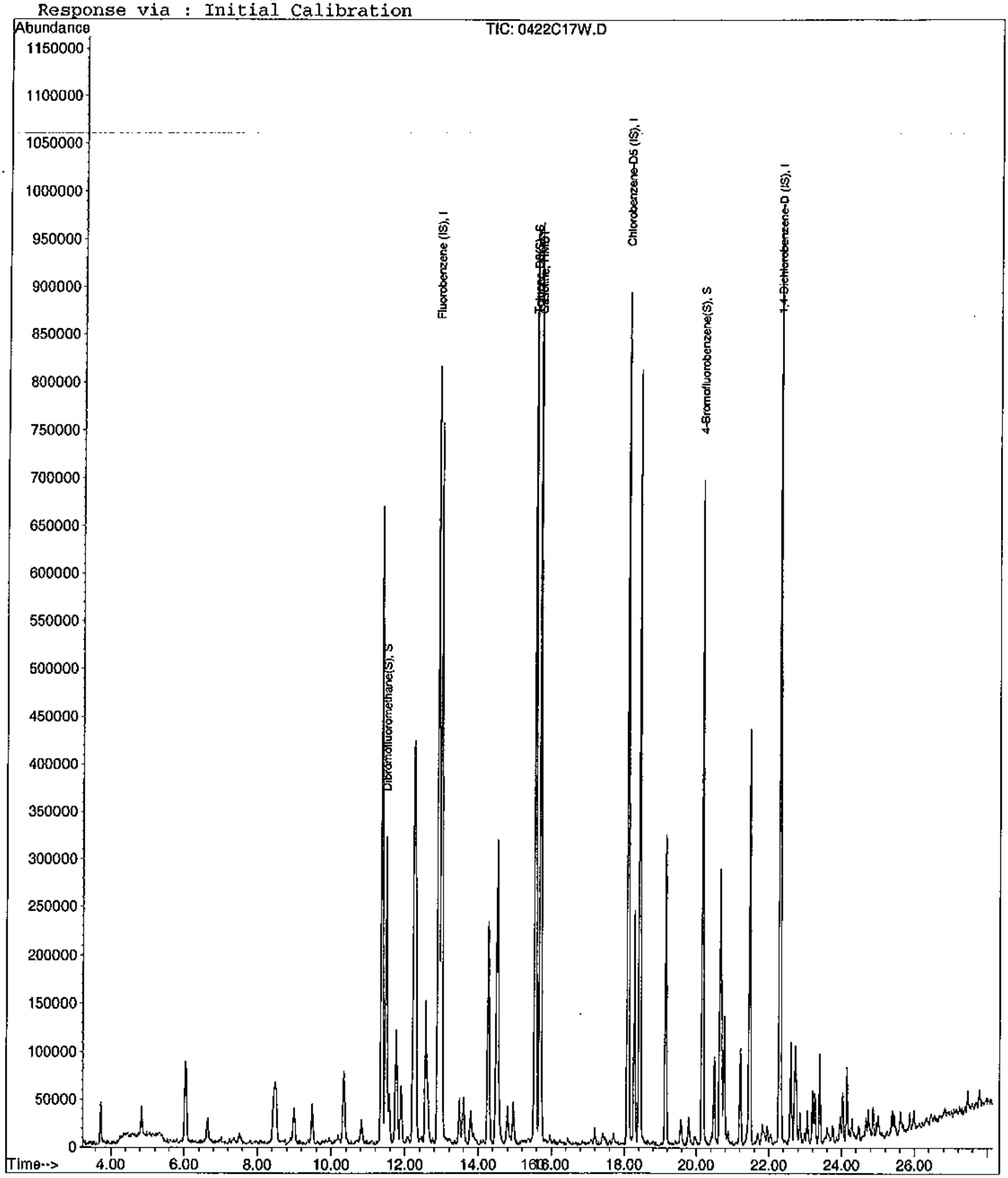
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	813193	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.10	TIC	892115	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	963258	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.48	TIC	1180225	26.14103 ppb	0.00
Spiked Amount 23.521			Recovery = 111.139%		
5) Toluene-D8(S)	15.56	TIC	2915689	25.84569 ppb	0.00
Spiked Amount 26.002			Recovery = 99.400%		
6) 4-Bromofluorobenzene(S)	20.17	TIC	1973777	26.30051 ppb	0.00
Spiked Amount 26.339			Recovery = 99.856%		
Target Compounds					Qvalue
2) Gasoline	15.70	TIC	34503406m	122.09794 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C17W.D Vial: 1
Acq On : 23 Apr 11 2:48 Operator: RS
Sample : Vol Std 4-22-11@300ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:44 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C18W.D Vial: 1
Acq On : 23 Apr 11 3:23 Operator: RS
Sample : Vol Std 4-22-11@600ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	839656	25.00000	ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	926859	25.00000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1075159	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.49	TIC	1020589	21.89279	ppb	0.00
Spiked Amount 23.521			Recovery =	93.079%		
5) Toluene-D8(S)	15.56	TIC	3015328	25.72697	ppb	0.00
Spiked Amount 26.002			Recovery =	98.942%		
6) 4-Bromofluorobenzene(S)	20.16	TIC	2029523	26.02959	ppb	0.00
Spiked Amount 26.339			Recovery =	98.827%		
Target Compounds						Qvalue
2) Gasoline	15.70	TIC	52581715m	180.20771	ppb	100

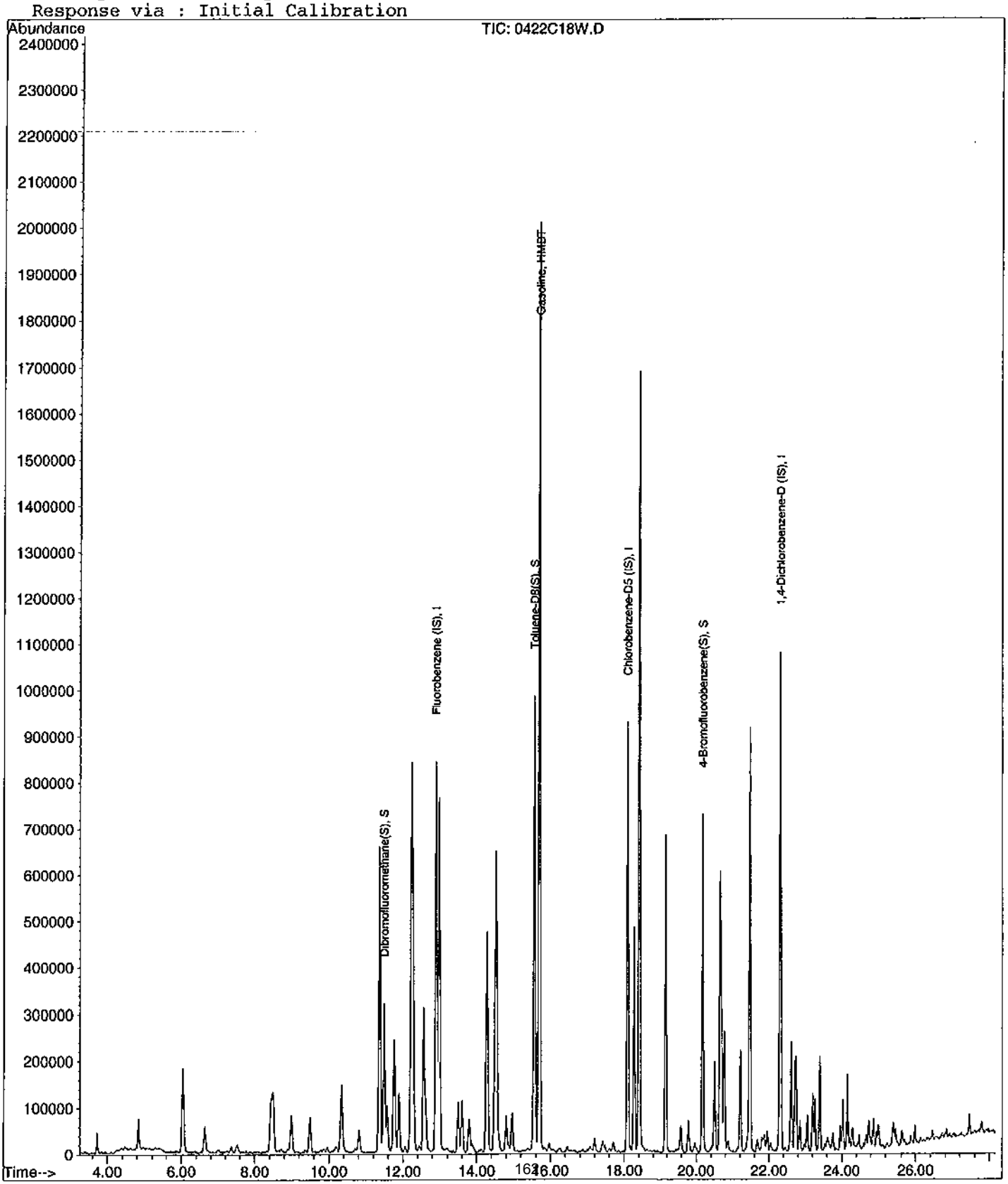
(#) = qualifier out of range (m) = manual integration
0422C18W.D GAS.M Mon May 16 19:47:12 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C18W.D Vial: 1
Acq On : 23 Apr 11 3:23 Operator: RS
Sample : Vol Std 4-22-11@600ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C19W.D Vial: 1
Acq On : 23 Apr 11 3:58 Operator: RS
Sample : Vol Std 4-22-11@800ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

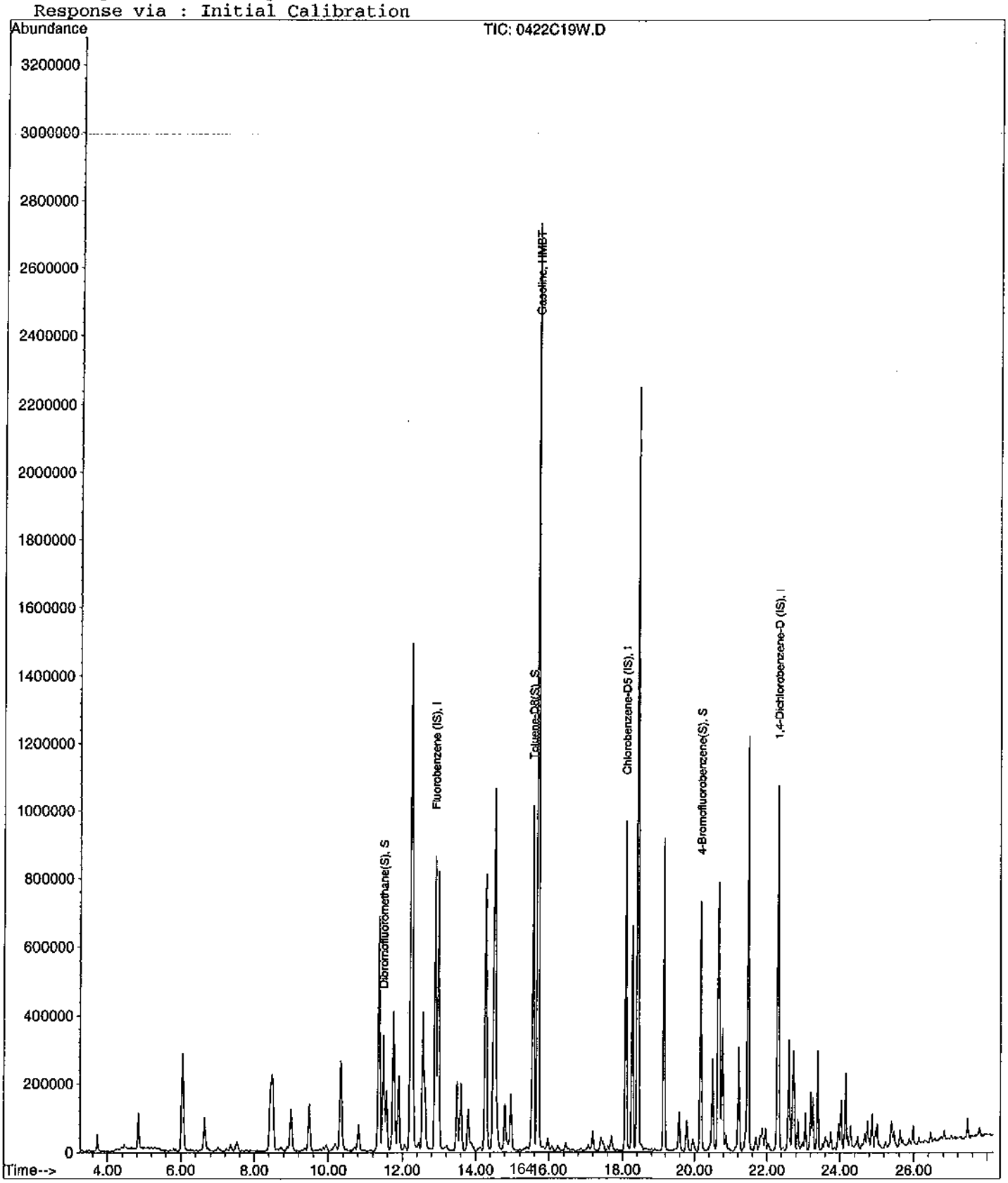
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	857506	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	966385	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1071041	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.49	TIC	1100423	23.11394 ppb	0.00
Spiked Amount 23.521			Recovery =	98.270%	
5) Toluene-D8(S)	15.56	TIC	3209042	26.25990 ppb	0.00
Spiked Amount 26.002			Recovery =	100.992%	
6) 4-Bromofluorobenzene(S)	20.16	TIC	2064699	25.39765 ppb	0.00
Spiked Amount 26.339			Recovery =	96.427%	
Target Compounds					Qvalue
2) Gasoline	15.70	TIC	70886684m	237.88524 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C19W.D Vial: 1
Acq On : 23 Apr 11 3:58 Operator: RS
Sample : Vol Std 4-22-11@800ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C20W.D Vial: 1
Acq On : 23 Apr 11 4:33 Operator: RS
Sample : Vol Std 4-22-11@1000ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:40:56 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

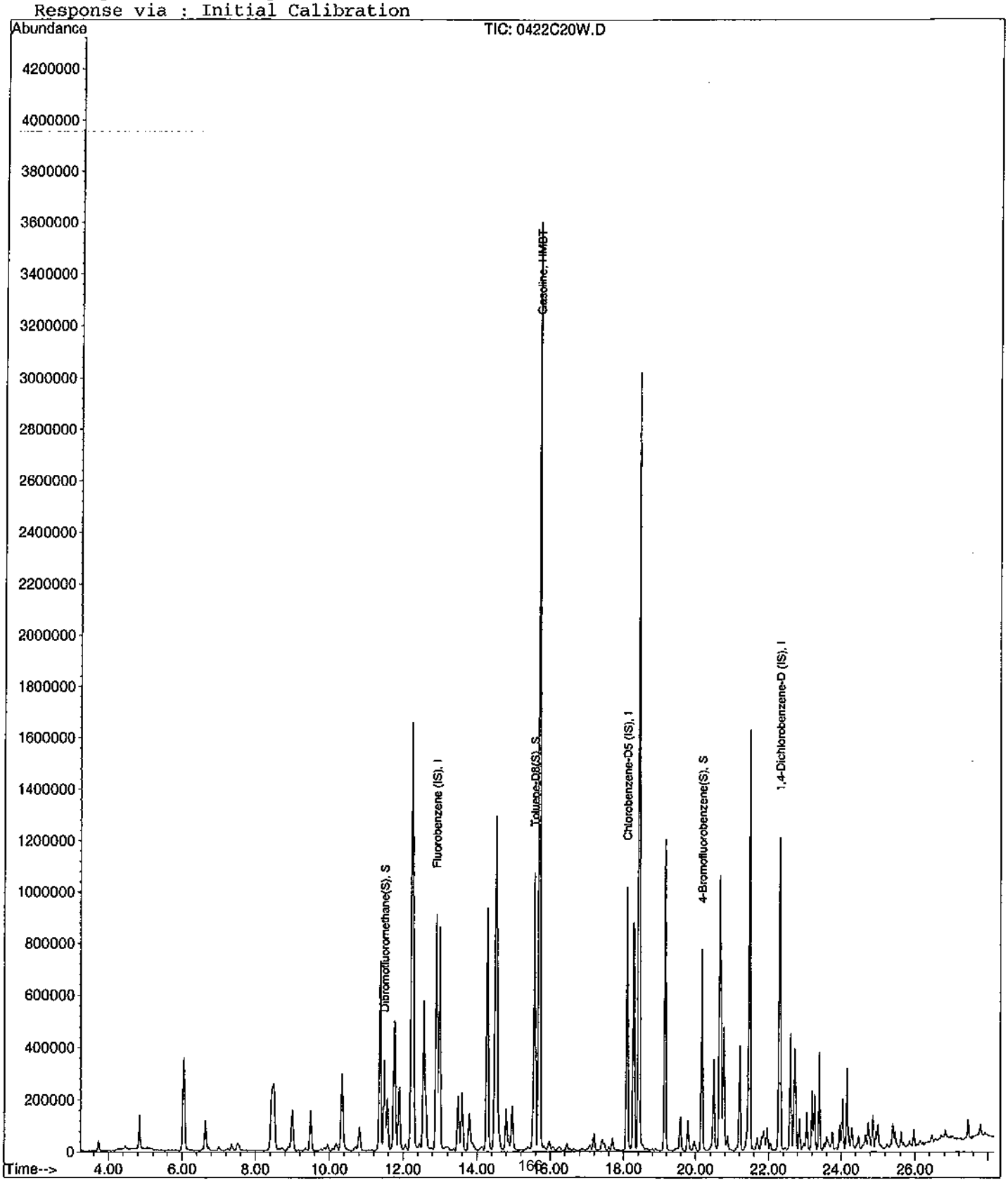
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.90	TIC	900499	25.00000 ppb	0.00
4) Chlorobenzene-D5 (IS)	18.09	TIC	1012189	25.00000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	1201637	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.49	TIC	1142245	22.84692 ppb	0.00
Spiked Amount 23.521			Recovery =	97.134%	
5) Toluene-D8(S)	15.56	TIC	3421410	26.73076 ppb	0.00
Spiked Amount 26.002			Recovery =	102.804%	
6) 4-Bromofluorobenzene(S)	20.17	TIC	2128808	25.00126 ppb	0.00
Spiked Amount 26.339			Recovery =	94.920%	
Target Compounds					Qvalue
2) Gasoline	15.70	TIC	84574991m	270.27056 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C20W.D Vial: 1
Acq On : 23 Apr 11 4:33 Operator: RS
Sample : Vol Std 4-22-11@1000ug/L Inst : Chico
Misc : Water 10ml w/IS: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:45 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 64544
Date Analyzed: 04/23/11
Instrument: Chico
Initial Cal. Date: 04/22/11
Data File: 0422C22W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	HMBT	Gasoline	8.625	3.470	60	HMBTL	6.9
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			60.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110422\0422C22W.D Vial: 1
Acq On : 23 Apr 11 5:42 Operator: RS
Sample : GAS 300 ug/L STD(SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:48 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.87	TIC	836807	25.00000 ppb	-0.03
4) Chlorobenzene-D5 (IS)	18.07	TIC	884518	25.00000 ppb	-0.03
7) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	926523	25.00000 ppb	-0.02
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.45	TIC	805863	17.34553 ppb	-0.03
Spiked Amount 23.521			Recovery =	73.747%	
5) Toluene-D8(S)	15.53	TIC	2907375	25.99334 ppb	-0.03
Spiked Amount 26.002			Recovery =	99.965%	
6) 4-Bromofluorobenzene(S)	20.14	TIC	1784990	23.98922 ppb	-0.03
Spiked Amount 26.339			Recovery =	91.078%	
Target Compounds					Qvalue
2) Gasoline	15.66	TIC	34844648m	279.26444 ppb	100

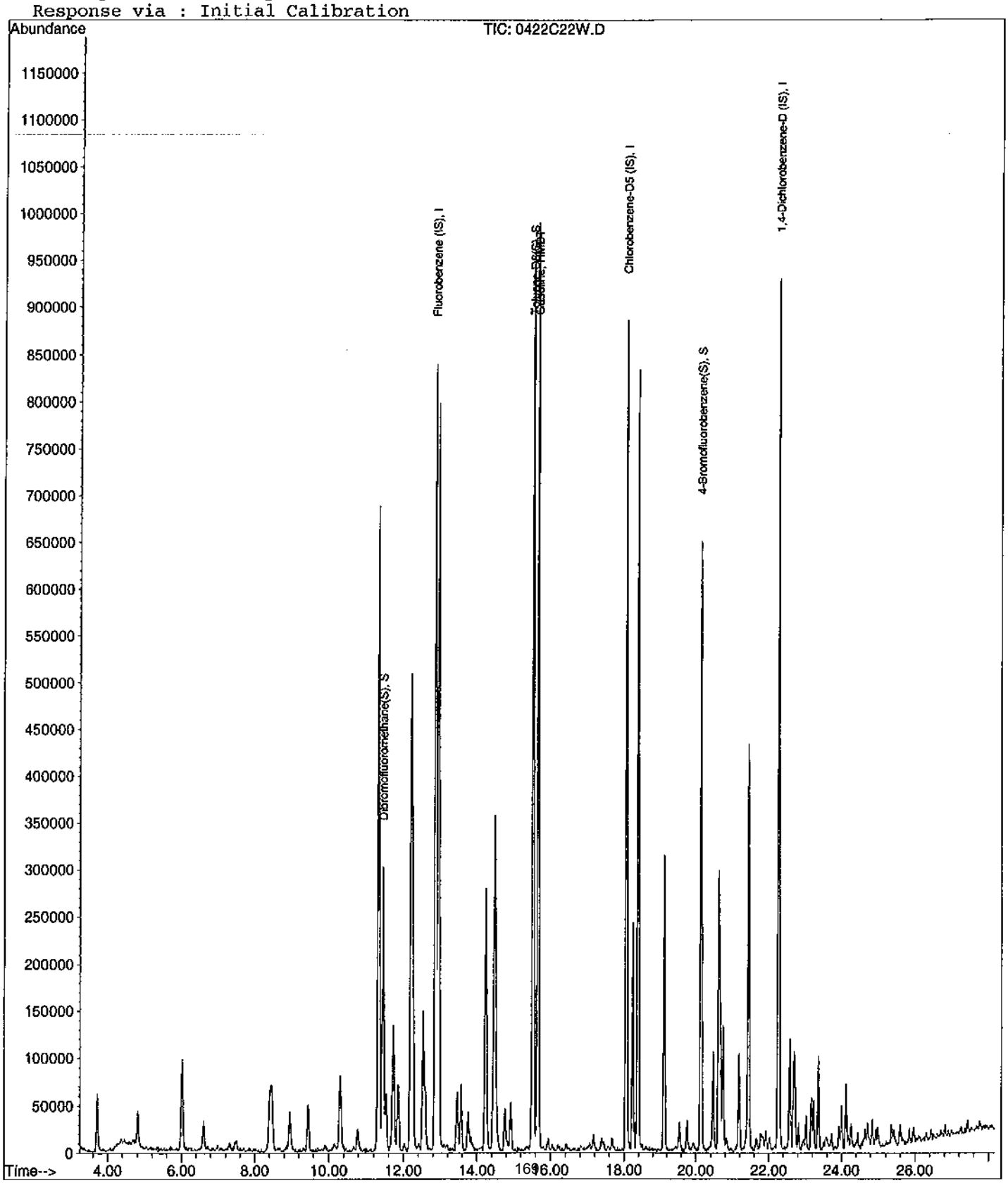
(#) = qualifier out of range (m) = manual integration
0422C22W.D GAS.M Mon May 16 19:48:52 2011 Page 1

Quantitation Report

Data File : M:\CHICO\DATA\C110422\0422C22W.D Vial: 1
Acq On : 23 Apr 11 5:42 Operator: RS
Sample : GAS 300 ug/L STD(SS) Inst : Chico
Misc : Water 10ml w/IS&S: 04-12-11 Multiplr: 1.00

Quant Time: May 16 19:48 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 64994
Date Analyzed: 3 May 11 1:00
Instrument: Chico
Initial Cal. Date: 05/02/11
Data File: 0502C15W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	HMBT	Gasoline	8.625	3.701	57	HMBTL	5.7
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			57.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C15W.D Vial: 1
Acq On : 3 May 11 1:00 Operator: RS
Sample : GAS Std 05-02-11@300ug/L Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 16 20:29 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

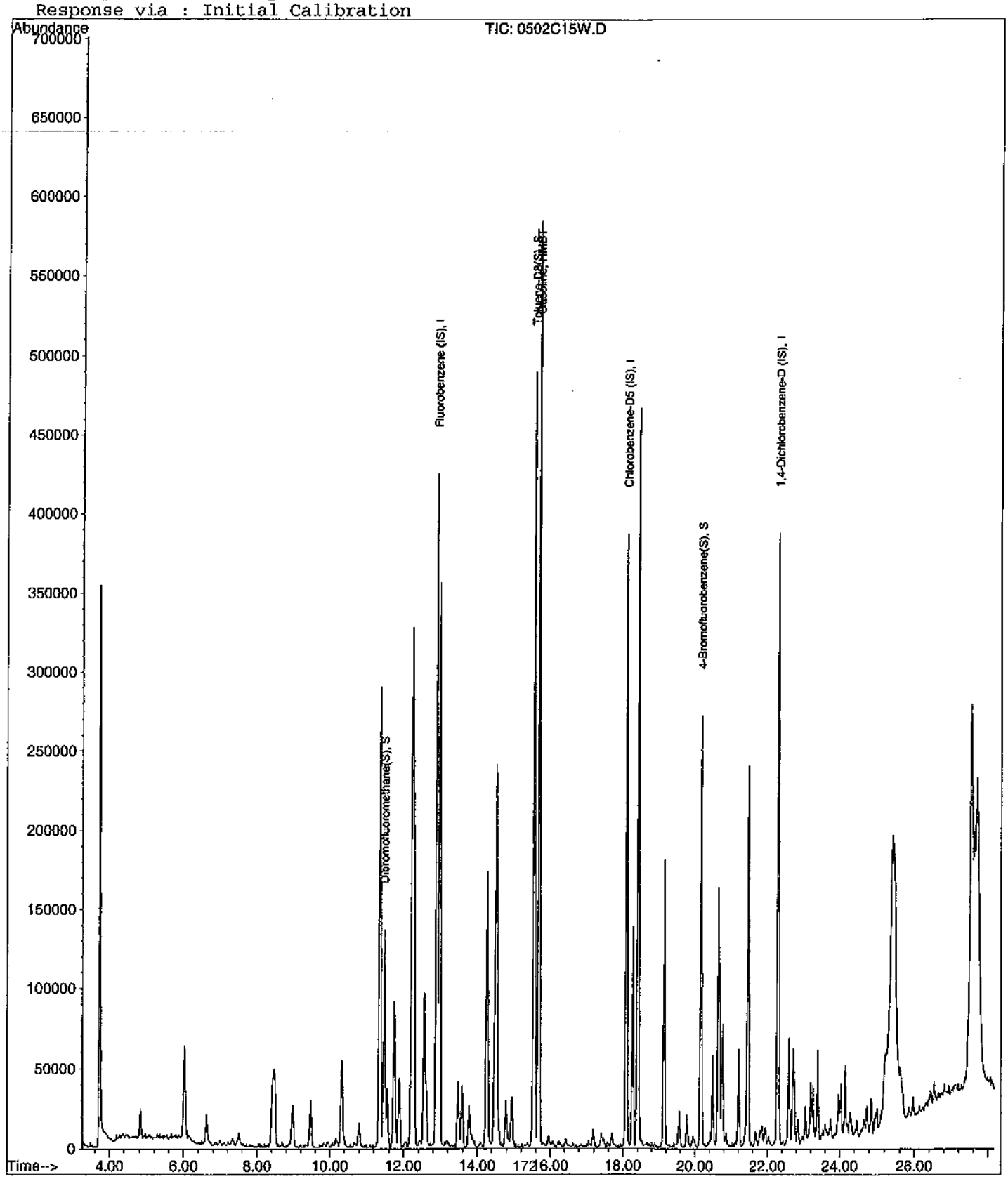
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	TIC	423283	25.00000 ppb	-0.01
4) Chlorobenzene-D5 (IS)	18.09	TIC	386316	25.00000 ppb	-0.01
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	385131	25.00000 ppb	0.00
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.47	TIC	432273	18.39411 ppb	-0.01
Spiked Amount 23.521			Recovery = 78.202%		
5) Toluene-D8(S)	15.55	TIC	1481589	30.32863 ppb	-0.01
Spiked Amount 26.002			Recovery = 116.641%		
6) 4-Bromofluorobenzene(S)	20.16	TIC	757680	23.31471 ppb	-0.01
Spiked Amount 26.339			Recovery = 88.519%		
Target Compounds					Qvalue
2) Gasoline	15.68	TIC	18799291m	317.08900 ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C15W.D Vial: 1
Acq On : 3 May 11 1:00 Operator: RS
Sample : GAS Std 05-02-11@300ug/L Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 16 20:29 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 64844
Case No: Initial Cal. Date: 05/02/11
Matrix: Instrument: Chico Initials:

			0502C05W.D	0502C06W.D	0502C07W.D	0502C08W.D	0502C09W.D	0502C10W.D	0502C11W.D	0502C12W.D						
		Compound	0.5	1	2	5	10	20	40	100			Avg	%RSD		
1	I	Fluorobenzene (IS)	ISTD													
2	TM	Dichlorodifluoromethane	1.263	1.221	1.297	1.248	1.334	1.418	1.353	1.267			1.3	5.0	TM	
3	TM**	Chloromethane	1.874	1.577	1.462	1.531	1.379	1.265	1.222				1.5	15	TM**	
4	TM*	Vinyl chloride	0.4646	0.4163	0.3190	0.3580	0.3661	0.3329	0.3560	0.3335			0.37	13	TM*	
5	TM	Bromomethane	0.2113	0.1769	0.1981	0.2256	0.2487	0.2107	0.2193	0.2093			0.21	9.8	TM	
6	TM	Chloroethane	0.5910	0.6140	0.6826	0.6348	0.6354	0.6037	0.6024	0.5594			0.62	5.9	TM	
7	TM	Trichlorofluoromethane	1.721	1.619	1.734	1.705	1.836	1.591	1.584	1.475			1.7	6.8	TM	
8	TML	Acetone	0.1549	0.2040	0.1330	0.1124	0.0906	0.0782	0.0761	0.0709			0.12	41	TML	0.999
9	TM*	1,1-DCE	0.7568	0.7552	0.7377	0.7315	0.7386	0.7217	0.7015	0.7016			0.73	2.9	TM*	
10	TM	Methylene chloride	0.8709	0.8923	0.7079	0.7539	0.7251	0.6569	0.6350	0.5990			0.73	15	TM	
11	TM	Carbon disulfide	0.6548	0.6510	0.6952	0.6721	0.6988	0.6640	0.6393	0.6163			0.66	4.2	TM	
12	TM	Methyl t-butyl ether (MtBE)	0.9500	1.068	1.090	1.125	1.153	1.066	1.046	1.008			1.1	6.0	TM	
13	TM	Trans-1,2-DCE	0.7444	0.8566	0.7338	0.8374	0.8713	0.7940	0.8039	0.7831			0.80	6.2	TM	
14	TM**	1,1-DCA	1.735	1.564	1.640	1.695	1.660	1.502	1.493	1.381			1.6	7.6	TM**	
15	TM	MEK (2-Butanone)	0.3797	0.3528	0.2641	0.3139	0.3144	0.3040	0.2842	0.2699			0.31	13	TM	
16	TM	Cis-1,2-DCE	0.8527	0.7452	0.7911	0.8454	0.8767	0.8048	0.8075	0.7758			0.81	5.4	TM	
17	TM	2,2-Dichloropropane	1.416	1.498	1.411	1.452	1.470	1.322	1.305	1.196			1.4	7.3	TM	
18	TM*	Chloroform	1.662	1.683	1.592	1.634	1.683	1.521	1.503	1.432			1.6	5.9	TM*	
19	TM	Bromochloromethane	0.2449	0.2437	0.2158	0.2253	0.2382	0.2385	0.2338	0.2320			0.23	4.2	TM	
20	S	Dibromofluoromethane(S)	0.8241	0.7803	0.7274	0.8066	0.7579	0.7334	0.7227	0.7302			0.76	5.2	S	
21	TM	1,1,1-TCA	1.904	1.750	1.679	1.730	1.750	1.640	1.658	1.549			1.7	6.1	TM	
22	TM	1,1-Dichloropropene	1.234	1.203	1.187	1.168	1.292	1.166	1.180	1.115			1.2	4.4	TM	
23	S	1,2-DCA-D4(S)	0.8099	0.7420	0.7796	0.7985	0.7519	0.7011	0.6943	0.6502			0.74	7.5	S	
24	TM	Carbon Tetrachloride	1.426	1.330	1.556	1.476	1.588	1.426	1.449	1.372			1.5	6.0	TM	
25	TM	1,2-DCA	0.8713	0.9095	0.9524	0.9052	0.9050	0.8276	0.7911	0.7518			0.86	7.9	TM	
26	TM	Benzene	3.218	2.897	2.774	3.016	3.063	2.816	2.808	2.692			2.9	6.0	TM	
27	TM	TCE	1.005	0.9108	0.9786	0.9374	1.013	0.9178	0.9280	0.9159			0.95	4.4	TM	
28	TM*	1,2-Dichloropropane	0.7568	0.6420	0.6357	0.6733	0.7143	0.6702	0.6707	0.6386			0.68	6.2	TM*	
29	TM	Bromodichloromethane	0.9842	0.9725	0.9591	1.082	1.086	0.9946	1.006	0.9490			1.0	5.2	TM	
30	TM	Dibromomethane	0.2667	0.2934	0.3373	0.3698	0.3544	0.3324	0.3327	0.3248			0.33	10	TM	
31	TM	Cis-1,3-Dichloropropene	0.8560	0.9356	0.9056	1.037	1.008	0.9579	0.9729	0.9426			0.95	6.0	TM	
32	TM*	Toluene	1.780	1.614	1.737	1.833	1.859	1.727	1.720	1.728			1.7	4.3	TM*	
33	TM	Trans-1,3-Dichloropropene	0.8406	0.7493	0.6781	0.8033	0.8101	0.7537	0.7648	0.7289			0.77	6.7	TM	
34	TM	1,1,2-TCA	0.3024	0.2526	0.2774	0.3218	0.3105	0.2851	0.2951	0.2873			0.29	7.3	TM	
35	I	Chlorobenzene-D5 (IS)	ISTD													

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 64654
Case No: Initial Cal. Date: 05/02/11
Matrix: Instrument: Chico Initials:

		Compound	0.5	1	2	5	10	20	40	100			Avg	%RSD		
36	S	Toluene-D8(S)	4.448	4.071	3.963	4.403	4.257	4.034	3.990	4.032			4.1	4.6	S	
37	TM	1,2-EDB	0.4628	0.5282	0.6071	0.6075	0.5949	0.5927	0.5718	0.5899			0.57	8.8	TM	
38	TM	Tetrachloroethene	0.8939	0.9758	0.8633	0.9406	0.9347	0.9189	0.9142	0.9410			0.92	3.7	TM	
39	TM	1-Chlorohexane	1.720	1.543	1.477	1.593	1.693	1.620	1.632	1.617			1.6	4.8	TM	
40	TM	1,1,1,2-Tetrachloroethane	1.088	1.031	1.079	1.149	1.191	1.132	1.111	1.064			1.1	4.6	TM	
41	TM	m&p-Xylene	2.073	2.144	1.951	2.146	2.198	2.052	2.041	1.964			2.1	4.2	TM	
42	TM	o-Xylene	1.859	1.930	1.883	2.119	2.103	2.093	2.032	1.971			2.0	5.1	TM	
43	TM	Styrene	2.297	2.207	2.079	2.270	2.270	2.121	2.031	1.837			2.1	7.3	TM	
44	S	4-Bromofluorobenzene(S)	1.767	1.658	1.591	1.724	1.687	1.655	1.576	1.517			1.6	5.0	S	
45	TM	2-Hexanone		0.3193	0.2450	0.2558	0.2752	0.2577	0.2633	0.2442			0.27	9.7	TM	
46	TM	1,3-Dichloropropane	1.135	1.144	1.145	1.210	1.230	1.144	1.128	1.111			1.2	3.6	TM	
47	TM	Dibromochloromethane	0.8069	0.9351	0.8471	0.9306	0.9730	0.9243	0.9166	0.9052			0.90	5.9	TM	
48	TM**	Chlorobenzene	2.906	2.700	2.737	2.729	2.918	2.784	2.730	2.665			2.8	3.4	TM**	
49	TM*	Ethylbenzene	7.072	6.693	6.373	6.687	6.836	6.348	6.197	5.824			6.5	6.1	TM*	
50	TM**	Bromoform		0.4403	0.3506	0.4077	0.4547	0.4575	0.4525	0.4490			0.43	9.1	TM**	
51	I	1,4-Dichlorobenzene-D (IS)	ISTD													
52	TM	MIBK (methyl isobutyl ketone)	0.6911	0.6575	0.7855	0.6492	0.7755	0.7161	0.6798	0.7116			0.71	7.1	TM	
53	TM	Isopropylbenzene	12.1	10.9	10.9	11.4	12.1	10.9	11.2	10.5			11	5.0	TM	
54	TM**	1,1,2,2-Tetrachloroethane	1.000	0.8068	0.9735	0.8737	1.035	0.9309	0.9542	0.8674			0.93	8.2	TM**	
55	TM	1,2,3-Trichloropropane		0.2302	0.2744	0.3363	0.3202	0.3225	0.3199	0.2996			0.30	12	TM	
56	TM	Bromobenzene	2.065	1.921	2.126	2.025	2.100	1.982	1.895	1.832			2.0	5.2	TM	
57	TM	n-Propylbenzene	14.2	13.4	13.4	13.7	15.0	13.5	13.3	12.5			14	5.5	TM	
58	TM	2-Chlorotoluene	10.8	9.497	9.810	9.918	10.3	9.119	8.941	8.071			9.6	8.8	TM	
59	TM	1,3,5-Trimethylbenzene	9.954	8.836	8.846	9.319	9.582	9.023	8.380	7.953			9.0	7.1	TM	
60	TM	4-Chlorotoluene	8.795	7.822	8.088	8.352	8.864	7.834	7.635	6.942			8.0	7.9	TM	
61	TM	Tert-Butylbenzene	8.113	7.701	7.609	7.898	8.694	8.231	8.147	7.758			8.0	4.4	TM	
62	TM	1,2,4-Trimethylbenzene	9.643	9.095	8.915	9.515	9.709	9.092	8.913	8.390			9.2	4.9	TM	
63	TM	Sec-Butylbenzene	12.3	10.9	11.2	11.5	12.7	11.7	11.6	11.1			12	5.3	TM	
64	TM	p-Isopropyltoluene	8.824	7.841	8.048	8.419	9.126	8.630	8.610	8.424			8.5	4.8	TM	
65	TM	1,3-DCB	3.835	3.738	3.867	4.184	4.265	4.032	4.039	3.898			4.0	4.5	TM	
66	TM	1,4-DCB	3.921	3.784	3.709	3.913	4.142	3.825	3.800	3.823			3.9	3.4	TM	
67	TM	n-Butylbenzene	10.4	8.281	8.672	8.994	9.851	8.892	8.821	8.542			9.1	7.8	TM	
68	TM	1,2-DCB	3.208	2.993	2.994	3.449	3.565	3.395	3.286	3.354			3.3	6.3	TM	
69	TML	1,2-Dibromo-3-chloropropane			0.1161	0.1443	0.2121	0.1915	0.1800	0.2120			0.18	22	TML	0.996
70	TM	1,2,4-Trichlorobenzene	1.170	1.240	0.8844	0.9825	0.9490	0.9947	1.004	1.061			1.0	11	TM	

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No: 60454
Case No: Initial Cal. Date: 05/02/11
Matrix: Instrument: Chico
Initials:

		Compound	0.5	1	2	5	10	20	40	100			Avg	%RSD		
71	TM	Hexachlorobutadiene	0.6763	0.5772	0.4400	0.4459	0.5099	0.4691	0.4869	0.5198			0.52	15	TM	
72	TM	Naphthalene	1.652	1.244	1.067	1.233	1.228	1.275	1.284	1.370			1.3	13	TM	
73	TM	1,2,3-Trichlorobenzene	2.123	1.927	1.815	2.025	2.011	2.007	2.027	2.193			2.0	5.7	TM	
74																
75																
76																
77																
78																
79																
80																
81																
82																
83																
84																
85																
86																
87																
88																
89																
90																
91																
92																
93																
94																
95																
96																
97																
98																
99																
100																
101																
102																
103																
104																
105																

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C04W.D Vial: 1
Acq On : 2 May 11 17:22 Operator: RS
Sample : Vol Std 05-02-11@0.3ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.89	96	144512	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.07	117	78872	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	40304	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.47	111	2979	0.64156 ppb		0.00
Spiked Amount 23.521			Recovery = 2.730%			
23) 1,2-DCA-D4(S)	12.27	65	2831	0.89646 ppb		0.00
Spiked Amount 22.321			Recovery = 4.014%			
36) Toluene-D8(S)	15.55	98	8434	0.72646 ppb		0.00
Spiked Amount 26.002			Recovery = 2.792%			
44) 4-Bromofluorobenzene(S)	20.15	95	3611	-1.79748 ppb		0.00
Spiked Amount 26.339			Recovery = -6.823%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.11	85	1475	0.28357 ppb		97
3) Chloromethane	4.59	50	3652	0.74279 ppb		93
4) Vinyl chloride	4.87	62	900	0.65086 ppb		92
5) Bromomethane	5.76	94	456	-0.07076 ppb	#	38
6) Chloroethane	5.95	64	1271	0.41697 ppb		98
7) Trichlorofluoromethane	6.56	101	3061	0.46251 ppb		92
8) Acetone	7.31	43	466	-1.88559 ppb	#	50
9) 1,1-DCE	7.73	96	1443	0.47596 ppb	#	52
10) Methylene chloride	8.53	84	2268	-1.15259 ppb		86
11) Carbon disulfide	8.60	76	1128	0.10626 ppb	#	49
12) Methyl t-butyl ether (MtBE	8.94	73	1904	0.37748 ppb	#	64
13) Trans-1,2-DCE	9.15	96	1436	-0.89863 ppb	#	79
14) 1,1-DCA	9.84	63	2974	0.46681 ppb		95
15) MEK (2-Butanone)	10.49	43	481	0.39438 ppb	#	76
16) Cis-1,2-DCE	10.86	96	1277	0.29549 ppb		86
17) 2,2-Dichloropropane	10.85	77	2847	0.48689 ppb		98
18) Chloroform	11.13	83	3006	0.44545 ppb		91
19) Bromochloromethane	11.37	128	372	0.26500 ppb	#	47
21) 1,1,1-TCA	11.89	97	2938	0.44251 ppb		86
22) 1,1-Dichloropropene	12.16	75	2377	0.53439 ppb	#	87
24) Carbon Tetrachloride	12.33	117	2748	0.46866 ppb	#	84
25) 1,2-DCA	12.42	62	1399	0.47030 ppb	#	82
26) Benzene	12.55	78	5891	0.45303 ppb		95
27) TCE	13.59	95	1788	0.41865 ppb		88
28) 1,2-Dichloropropane	13.80	63	926	0.29211 ppb	#	88
29) Bromodichloromethane	14.14	83	1722	0.37967 ppb	#	89
30) Dibromomethane	14.22	93	403	0.26416 ppb	#	52
31) Cis-1,3-Dichloropropene	15.04	75	1624	0.36264 ppb	#	41
32) Toluene	15.68	92	2656	0.28606 ppb		80
33) Trans-1,3-Dichloropropene	15.84	75	1060	0.31343 ppb		97
34) 1,1,2-TCA	16.14	83	458	0.30776 ppb	#	25
37) 1,2-EDB	17.37	107	425	0.29408 ppb	#	99
38) Tetrachloroethene	16.84	164	911	0.32849 ppb		78
39) 1-Chlorohexane	17.75	91	1518	0.33693 ppb	#	74
40) 1,1,1,2-Tetrachloroethane	18.20	131	871	0.29493 ppb	#	46
41) m&p-Xylene	18.39	106	4192	0.73783 ppb		83
42) o-Xylene	19.13	106	1778	0.31981 ppb		59
43) Styrene	19.15	78	2345	0.53395 ppb		63
45) 2-Hexanone	16.13	43	120	0.25737 ppb	#	36

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C04W.D Vial: 1
Acq On : 2 May 11 17:22 Operator: RS
Sample : Vol Std 05-02-11@0.3ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.52	76	1161	0.47471	ppb		89
47)	Dibromochloromethane	17.01	129	896	0.39174	ppb		78
48)	Chlorobenzene	18.14	112	3126	0.38541	ppb		86
49)	Ethylbenzene	18.24	91	6287	0.43538	ppb		97
50)	Bromoform	19.68	173	294	0.22596	ppb	#	32
52)	MIBK (methyl isobutyl keto	14.71	43	377	0.50182	ppb	#	38
53)	Isopropylbenzene	19.77	105	5989	0.41439	ppb	#	87
54)	1,1,2,2-Tetrachloroethane	19.92	83	425	0.35408	ppb	#	76
56)	Bromobenzene	20.51	156	865	0.26010	ppb		84
57)	n-Propylbenzene	20.48	91	8154	0.49270	ppb		97
58)	2-Chlorotoluene	20.76	91	5582	0.50613	ppb		96
59)	1,3,5-Trimethylbenzene	20.75	105	4670	0.41049	ppb		96
60)	4-Chlorotoluene	20.86	91	5199	0.54308	ppb		95
61)	Tert-Butylbenzene	21.40	119	3919	0.32371	ppb		96
62)	1,2,4-Trimethylbenzene	21.44	105	5109	0.44363	ppb		83
63)	Sec-Butylbenzene	21.79	105	6270	0.39274	ppb		97
64)	p-Isopropyltoluene	22.03	119	5035	0.38888	ppb		93
65)	1,3-DCB	22.16	146	2345	0.34529	ppb		88
66)	1,4-DCB	22.33	146	2299	0.37087	ppb	#	78
67)	n-Butylbenzene	22.72	91	6119	0.53952	ppb	#	78
68)	1,2-DCB	22.95	146	1831	0.33625	ppb		87
70)	1,2,4-Trichlorobenzene	25.61	180	619	0.33428	ppb	#	68
71)	Hexachlorobutadiene	25.87	223	479	0.51809	ppb	#	67
72)	Naphthalene	25.96	128	889	0.44233	ppb		98
73)	1,2,3-Trichlorobenzene	26.32	180	1295	0.34893	ppb	#	64

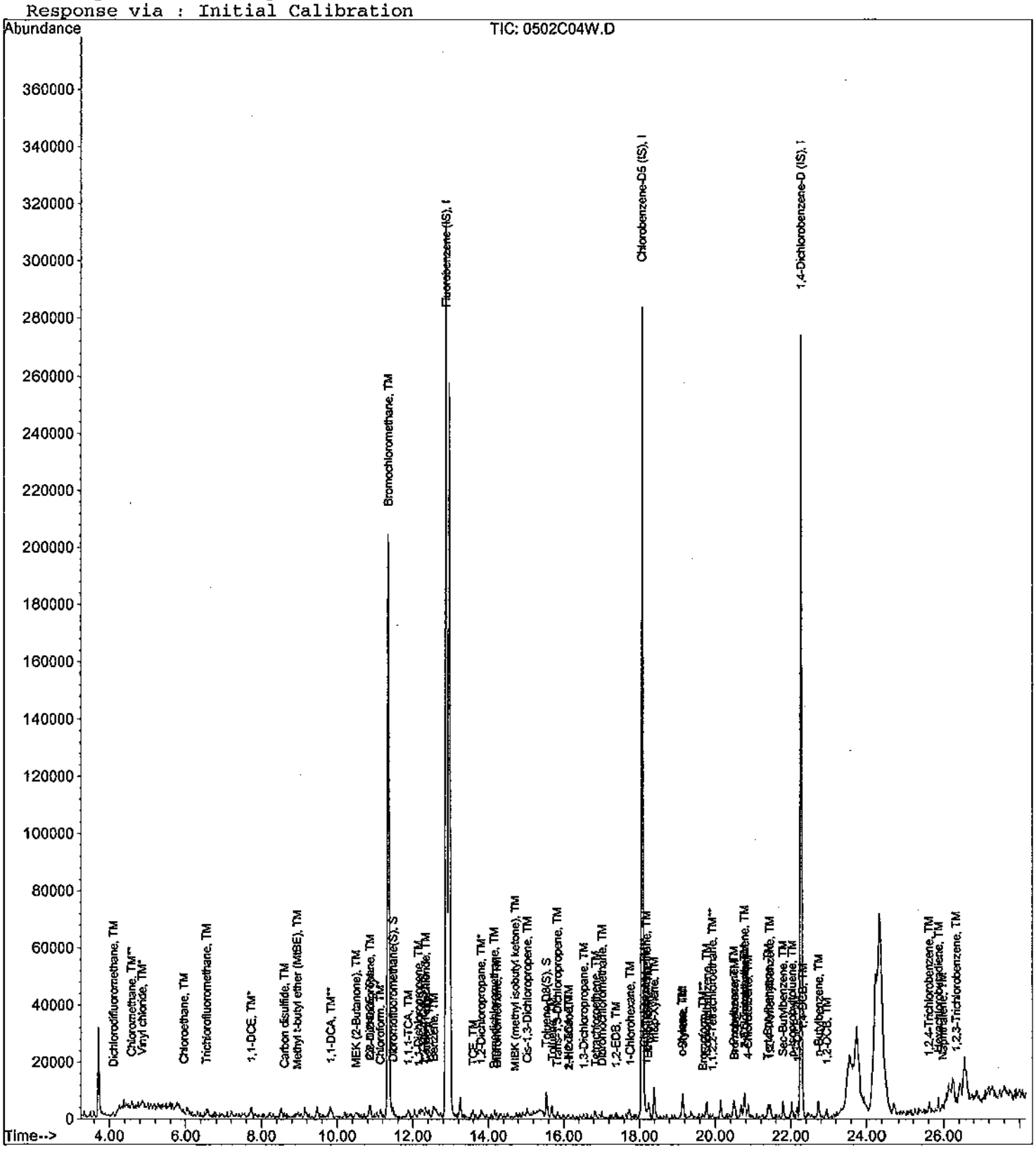
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C04W.D Vial: 1
Acq On : 2 May 11 17:22 Operator: RS
Sample : Vol Std 05-02-11@0.3ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C05W.D Vial: 1
Acq On : 2 May 11 17:57 Operator: RS
Sample : Vol Std 05-02-11@0.5ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.88	96	137216	25.00000 ppb		-0.01
35) Chlorobenzene-D5 (IS)	18.08	117	77024	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	40440	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.47	111	4523	1.02587 ppb		0.00
Spiked Amount 23.521			Recovery = 4.362%			
23) 1,2-DCA-D4(S)	12.27	65	4445	1.48239 ppb		0.00
Spiked Amount 22.321			Recovery = 6.640%			
36) Toluene-D8(S)	15.54	98	13704	1.20871 ppb		0.00
Spiked Amount 26.002			Recovery = 4.650%			
44) 4-Bromofluorobenzene(S)	20.15	95	5444	-1.24223 ppb		0.00
Spiked Amount 26.339			Recovery = -4.716%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	3467	0.70198 ppb		92
3) Chloromethane	4.60	50	5144	1.10189 ppb		97
4) Vinyl chloride	4.86	62	1275	0.97107 ppb		99
5) Bromomethane	5.77	94	580	0.06164 ppb		99
6) Chloroethane	5.96	64	1622	0.56042 ppb	#	3
7) Trichlorofluoromethane	6.57	101	4724	0.75173 ppb		87
8) Acetone	7.35	43	425	-1.96489 ppb	#	50
9) 1,1-DCE	7.72	96	2077	0.72151 ppb		88
10) Methylene chloride	8.52	84	2390	-1.05397 ppb		99
11) Carbon disulfide	8.60	76	1797	0.17829 ppb	#	46
12) Methyl t-butyl ether (MtBE	8.95	73	2607	0.54434 ppb	#	85
13) Trans-1,2-DCE	9.15	96	2043	-0.66410 ppb	#	88
14) 1,1-DCA	9.83	63	4762	0.78720 ppb	#	70
15) MEK (2-Butanone)	10.50	43	1042	0.89978 ppb	#	76
16) Cis-1,2-DCE	10.87	96	2340	0.57025 ppb		71
17) 2,2-Dichloropropane	10.86	77	3886	0.69992 ppb	#	78
18) Chloroform	11.14	83	4561	0.71182 ppb		82
19) Bromochloromethane	11.37	128	672	0.50417 ppb	#	56
21) 1,1,1-TCA	11.87	97	5226	0.82897 ppb		97
22) 1,1-Dichloropropene	12.16	75	3386	0.80170 ppb		99
24) Carbon Tetrachloride	12.35	117	3914	0.70301 ppb		81
25) 1,2-DCA	12.43	62	2391	0.84652 ppb	#	82
26) Benzene	12.54	78	8830	0.71515 ppb		94
27) TCE	13.57	95	2757	0.67986 ppb	#	74
28) 1,2-Dichloropropane	13.81	63	2077	0.69004 ppb	#	88
29) Bromodichloromethane	14.16	83	2701	0.62718 ppb	#	96
30) Dibromomethane	14.21	93	732	0.50532 ppb		94
31) Cis-1,3-Dichloropropene	15.04	75	2349	0.55242 ppb		85
32) Toluene	15.68	92	4886	0.55421 ppb		90
33) Trans-1,3-Dichloropropene	15.85	75	2307	0.71842 ppb		90
34) 1,1,2-TCA	16.11	83	830	0.58738 ppb	#	48
37) 1,2-EDB	17.38	107	713	0.50520 ppb	#	87
38) Tetrachloroethene	16.84	164	1377	0.50843 ppb		92
39) 1-Chlorohexane	17.73	91	2649	0.60207 ppb	#	74
40) 1,1,1,2-Tetrachloroethane	18.20	131	1676	0.58113 ppb		87
41) m&p-Xylene	18.39	106	6387	1.15114 ppb		87
42) o-Xylene	19.14	106	2864	0.52751 ppb		65
43) Styrene	19.16	78	3538	0.82492 ppb		86
45) 2-Hexanone	16.15	43	244	0.53587 ppb	#	36

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

Data File : M:\CHICO\DATA\C110502\0502C05W.D Vial: 1
Acq On : 2 May 11 17:57 Operator: RS
Sample : Vol Std 05-02-11@0.5ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.52	76	1748	0.73187	ppb		97
47)	Dibromochloromethane	17.01	129	1243	0.55649	ppb		80
48)	Chlorobenzene	18.14	112	4477	0.56522	ppb		98
49)	Ethylbenzene	18.26	91	10895	0.77260	ppb		86
50)	Bromoform	19.67	173	433	0.34078	ppb	#	32
52)	MIBK (methyl isobutyl keto	14.72	43	559	0.74158	ppb	#	38
53)	Isopropylbenzene	19.77	105	9747	0.67214	ppb		98
54)	1,1,2,2-Tetrachloroethane	19.93	83	809	0.67173	ppb	#	87
55)	1,2,3-Trichloropropane	20.21	110	69	0.18420	ppb	#	3
56)	Bromobenzene	20.51	156	1670	0.50046	ppb		80
57)	n-Propylbenzene	20.47	91	11450	0.68953	ppb		95
58)	2-Chlorotoluene	20.76	91	8704	0.78655	ppb		89
59)	1,3,5-Trimethylbenzene	20.75	105	8051	0.70529	ppb		88
60)	4-Chlorotoluene	20.85	91	7113	0.74051	ppb		86
61)	Tert-Butylbenzene	21.40	119	6562	0.54020	ppb	#	79
62)	1,2,4-Trimethylbenzene	21.45	105	7799	0.67493	ppb		89
63)	Sec-Butylbenzene	21.79	105	9929	0.61985	ppb		96
64)	p-Isopropyltoluene	22.03	119	7137	0.54938	ppb	#	85
65)	1,3-DCB	22.16	146	3102	0.45522	ppb		81
66)	1,4-DCB	22.34	146	3171	0.50982	ppb	#	77
67)	n-Butylbenzene	22.74	91	8400	0.73815	ppb	#	81
68)	1,2-DCB	22.96	146	2595	0.47496	ppb		90
70)	1,2,4-Trichlorobenzene	25.62	180	946	0.50915	ppb	#	82
71)	Hexachlorobutadiene	25.86	223	547	0.58965	ppb		92
72)	Naphthalene	25.96	128	1336	0.66250	ppb		92
73)	1,2,3-Trichlorobenzene	26.31	180	1717	0.46109	ppb	#	43

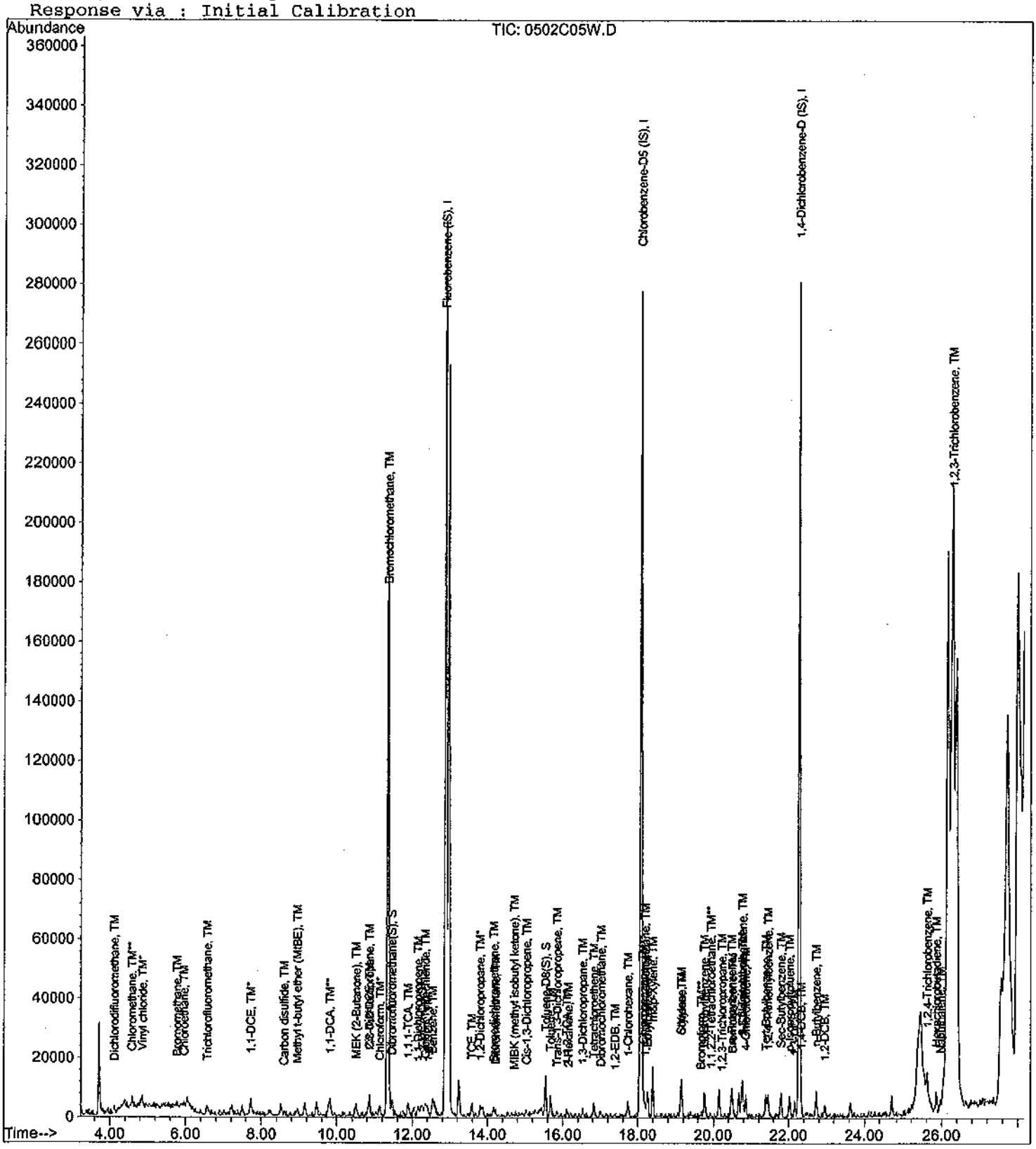
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C05W.D Vial: 1
Acq On : 2 May 11 17:57 Operator: RS
Sample : Vol Std 05-02-11@0.5ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C06W.D Vial: 1
Acq On : 2 May 11 18:33 Operator: RS
Sample : Vol Std 05-02-11@1.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.89	96	139328	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.08	117	79320	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	44528	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	8697	1.94268 ppb		0.00
Spiked Amount 23.521			Recovery	= 8.261%		
23) 1,2-DCA-D4(S)	12.28	65	8270	2.71620 ppb		0.00
Spiked Amount 22.321			Recovery	= 12.168%		
36) Toluene-D8(S)	15.54	98	25834	2.21263 ppb		0.00
Spiked Amount 26.002			Recovery	= 8.511%		
44) 4-Bromofluorobenzene(S)	20.15	95	10524	0.14049 ppb		0.00
Spiked Amount 26.339			Recovery	= 0.532%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	6803	1.35656 ppb		96
3) Chloromethane	4.59	50	8789	1.85414 ppb		93
4) Vinyl chloride	4.86	62	2320	1.74018 ppb		88
5) Bromomethane	5.78	94	986	0.41377 ppb		82
6) Chloroethane	5.96	64	3422	1.16441 ppb		97
7) Trichlorofluoromethane	6.56	101	9022	1.41392 ppb		94
8) Acetone	7.33	43	1137	1.18840 ppb	#	50
9) 1,1-DCE	7.73	96	4209	1.43997 ppb		98
11) Carbon disulfide	8.61	76	3628	0.35450 ppb	#	76
12) Methyl t-butyl ether (MtBE	8.95	73	5953	1.22413 ppb	#	79
13) Trans-1,2-DCE	9.16	96	4774	0.25355 ppb		70
14) 1,1-DCA	9.84	63	8714	1.41866 ppb	#	96
15) MEK (2-Butanone)	10.50	43	1966	1.67194 ppb	#	76
16) Cis-1,2-DCE	10.86	96	4153	0.99672 ppb		87
17) 2,2-Dichloropropane	10.86	77	8350	1.48114 ppb		94
18) Chloroform	11.15	83	9379	1.44156 ppb	#	71
19) Bromochloromethane	11.36	128	1358	1.00339 ppb	#	78
21) 1,1,1-TCA	11.88	97	9751	1.52330 ppb	#	79
22) 1,1-Dichloropropene	12.17	75	6704	1.56325 ppb		92
24) Carbon Tetrachloride	12.34	117	7415	1.31165 ppb	#	71
25) 1,2-DCA	12.43	62	5069	1.76746 ppb	#	82
26) Benzene	12.55	78	16146	1.28786 ppb		97
27) TCE	13.58	95	5076	1.23274 ppb		90
28) 1,2-Dichloropropane	13.81	63	3578	1.17070 ppb	#	88
29) Bromodichloromethane	14.17	83	5420	1.23946 ppb	#	86
30) Dibromomethane	14.21	93	1635	1.11158 ppb	#	83
31) Cis-1,3-Dichloropropene	15.04	75	5214	1.20760 ppb		91
32) Toluene	15.68	92	8995	1.00483 ppb		95
33) Trans-1,3-Dichloropropene	15.83	75	4176	1.28073 ppb		92
34) 1,1,2-TCA	16.11	83	1408	0.98133 ppb	#	57
37) 1,2-EDB	17.37	107	1676	1.15316 ppb	#	85
38) Tetrachloroethene	16.84	164	3096	1.11005 ppb	#	77
39) 1-Chlorohexane	17.75	91	4895	1.08034 ppb		85
40) 1,1,1,2-Tetrachloroethane	18.20	131	3272	1.10169 ppb		91
41) m&p-Xylene	18.40	106	13602	2.38056 ppb		93
42) o-Xylene	19.14	106	6123	1.09512 ppb		100
43) Styrene	19.16	78	7003	1.58556 ppb		88
45) 2-Hexanone	16.15	43	1013	2.16033 ppb	#	68
46) 1,3-Dichloropropane	16.54	76	3630	1.47586 ppb		99

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C06W.D Vial: 1
Acq On : 2 May 11 18:33 Operator: RS
Sample : Vol Std 05-02-11@1.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
47)	Dibromochloromethane	17.01	129	2967	1.28987 ppb	#	65
48)	Chlorobenzene	18.14	112	8568	1.05040 ppb		97
49)	Ethylbenzene	18.26	91	21237	1.46239 ppb		95
50)	Bromoform	19.67	173	1397	1.06764 ppb		81
52)	MIBK (methyl isobutyl keto	14.71	43	1171	1.41085 ppb		82
53)	Isopropylbenzene	19.77	105	19436	1.21724 ppb		92
54)	1,1,2,2-Tetrachloroethane	19.93	83	1437	1.08364 ppb	#	75
55)	1,2,3-Trichloropropane	20.18	110	410	0.99405 ppb	#	59
56)	Bromobenzene	20.51	156	3421	0.93108 ppb		97
57)	n-Propylbenzene	20.47	91	23839	1.30381 ppb		95
58)	2-Chlorotoluene	20.77	91	16916	1.38830 ppb		92
59)	1,3,5-Trimethylbenzene	20.75	105	15738	1.25212 ppb		83
60)	4-Chlorotoluene	20.86	91	13932	1.31726 ppb		97
61)	Tert-Butylbenzene	21.39	119	13717	1.02555 ppb		83
62)	1,2,4-Trimethylbenzene	21.45	105	16199	1.27317 ppb		100
63)	Sec-Butylbenzene	21.79	105	19392	1.09946 ppb		97
64)	p-Isopropyltoluene	22.03	119	13965	0.97628 ppb		94
65)	1,3-DCB	22.16	146	6657	0.88722 ppb		86
66)	1,4-DCB	22.32	146	6739	0.98401 ppb		87
67)	n-Butylbenzene	22.73	91	14749	1.17709 ppb		93
68)	1,2-DCB	22.96	146	5331	0.88614 ppb		88
69)	1,2-Dibromo-3-chloropropan	24.16	157	60	0.17411 ppb	#	20
70)	1,2,4-Trichlorobenzene	25.61	180	2208	1.07927 ppb	#	75
71)	Hexachlorobutadiene	25.87	223	1028	1.00641 ppb		80
72)	Naphthalene	25.96	128	2216	0.99800 ppb		98
73)	1,2,3-Trichlorobenzene	26.33	180	3432	0.83702 ppb		87

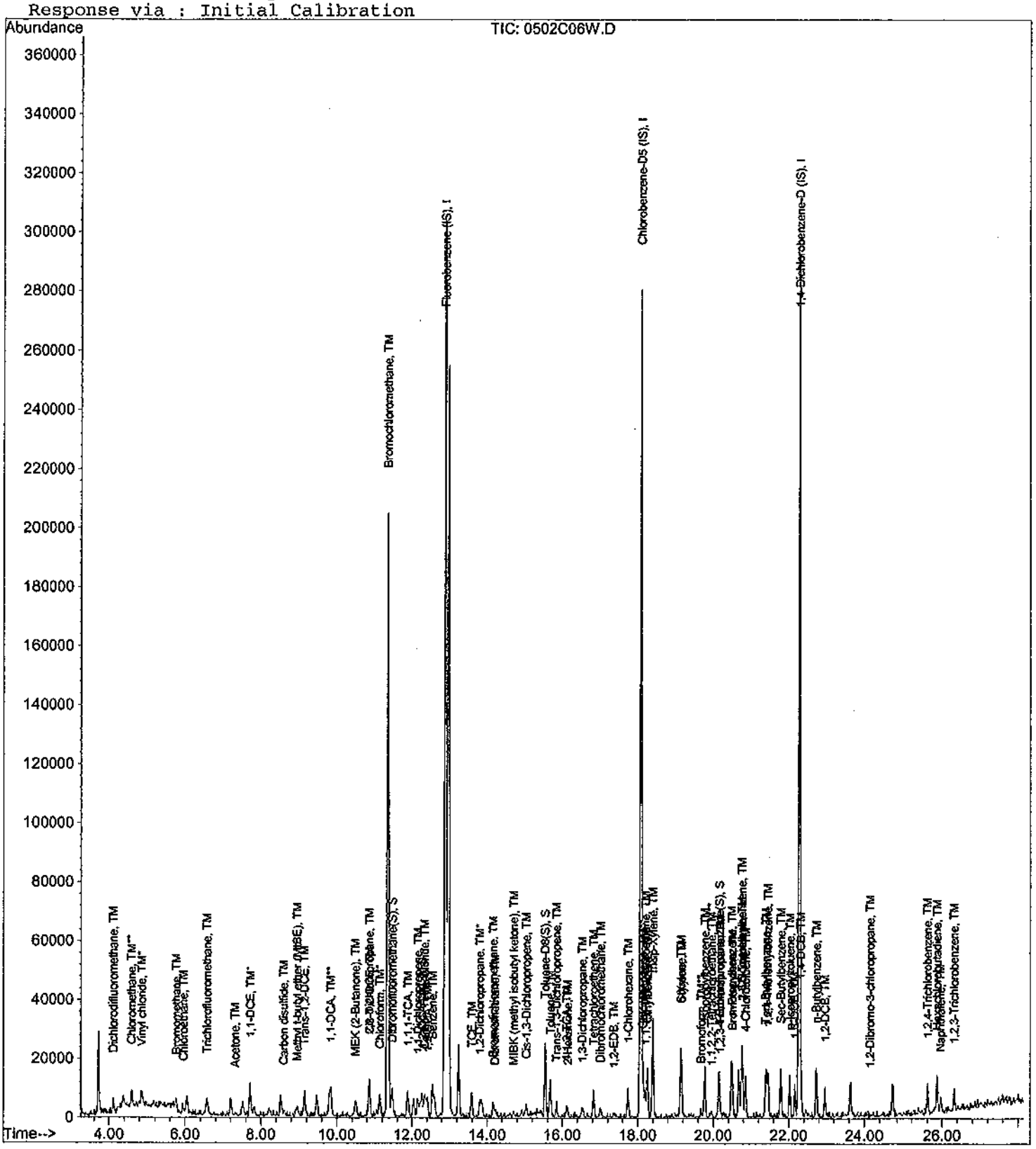
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C06W.D Vial: 1
Acq On : 2 May 11 18:33 Operator: RS
Sample : Vol Std 05-02-11@1.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C07W.D Vial: 1
Acq On : 2 May 11 19:08 Operator: RS
Sample : Vol Std 05-02-11@2.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.89	96	136768	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.08	117	79288	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	42952	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.48	111	15918	3.62221 ppb		0.00
Spiked Amount 23.521			Recovery	= 15.399%		
23) 1,2-DCA-D4(S)	12.28	65	17059	5.70774 ppb		0.00
Spiked Amount 22.321			Recovery	= 25.573%		
36) Toluene-D8(S)	15.54	98	50270	4.30726 ppb		0.00
Spiked Amount 26.002			Recovery	= 16.564%		
44) 4-Bromofluorobenzene(S)	20.15	95	20181	2.85806 ppb		0.00
Spiked Amount 26.339			Recovery	= 10.851%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	14190	2.88254 ppb		93
3) Chloromethane	4.60	50	15992	3.43684 ppb		97
4) Vinyl chloride	4.86	62	3490	2.66678 ppb	#	62
5) Bromomethane	5.77	94	2167	1.49710 ppb		99
6) Chloroethane	5.96	64	7469	2.58906 ppb		84
7) Trichlorofluoromethane	6.57	101	18973	3.02908 ppb		97
8) Acetone	7.34	43	1455	2.73155 ppb	#	50
9) 1,1-DCE	7.73	96	8071	2.81291 ppb		92
10) Methylene chloride	8.53	84	7745	1.18952 ppb	#	75
11) Carbon disulfide	8.62	76	7606	0.75710 ppb	#	79
12) Methyl t-butyl ether (MtBE	8.95	73	11931	2.49933 ppb	#	87
13) Trans-1,2-DCE	9.16	96	8029	1.41109 ppb		95
14) 1,1-DCA	9.85	63	17945	2.97617 ppb	#	91
15) MEK (2-Butanone)	10.50	43	2890	2.50373 ppb	#	76
16) Cis-1,2-DCE	10.86	96	8656	2.11633 ppb		92
17) 2,2-Dichloropropane	10.86	77	15441	2.79022 ppb		98
18) Chloroform	11.14	83	17421	2.72774 ppb		99
19) Bromochloromethane	11.37	128	2361	1.77714 ppb		83
21) 1,1,1-TCA	11.88	97	18374	2.92412 ppb		95
22) 1,1-Dichloropropene	12.16	75	12985	3.08453 ppb		91
24) Carbon Tetrachloride	12.34	117	17022	3.06740 ppb		93
25) 1,2-DCA	12.43	62	10421	3.70160 ppb	#	91
26) Benzene	12.54	78	30351	2.46621 ppb		97
27) TCE	13.58	95	10707	2.64894 ppb		89
28) 1,2-Dichloropropane	13.81	63	6956	2.31856 ppb	#	88
29) Bromodichloromethane	14.16	83	10494	2.44472 ppb		87
30) Dibromomethane	14.23	93	3691	2.55636 ppb		82
31) Cis-1,3-Dichloropropene	15.05	75	9909	2.33795 ppb		94
32) Toluene	15.68	92	19010	2.16334 ppb		93
33) Trans-1,3-Dichloropropene	15.85	75	7419	2.31791 ppb		93
34) 1,1,2-TCA	16.13	83	3035	2.15488 ppb		87
37) 1,2-EDB	17.37	107	3851	2.65072 ppb	#	71
38) Tetrachloroethene	16.83	164	5476	1.96417 ppb		86
39) 1-Chlorohexane	17.76	91	9371	2.06904 ppb		82
40) 1,1,1,2-Tetrachloroethane	18.20	131	6847	2.30633 ppb		91
41) m&p-Xylene	18.40	106	24749	4.33320 ppb		100
42) o-Xylene	19.14	106	11942	2.13674 ppb		87
43) Styrene	19.16	78	13189	2.98735 ppb		71
45) 2-Hexanone	16.14	43	1554	3.31540 ppb		83

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C07W.D Vial: 1
Acq On : 2 May 11 19:08 Operator: RS
Sample : Vol Std 05-02-11@2.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46)	1,3-Dichloropropane	16.54	76	7262	2.95372 ppb		90
47)	Dibromochloromethane	17.01	129	5373	2.33679 ppb		87
48)	Chlorobenzene	18.14	112	17361	2.12923 ppb		97
49)	Ethylbenzene	18.26	91	40424	2.78473 ppb		89
50)	Bromoform	19.68	173	2224	1.70034 ppb		82
52)	MIBK (methyl isobutyl keto	14.72	43	2699	3.37114 ppb		94
53)	Isopropylbenzene	19.78	105	37563	2.43882 ppb		98
54)	1,1,2,2-Tetrachloroethane	19.92	83	3345	2.61501 ppb	#	64
55)	1,2,3-Trichloropropane	20.18	110	943	2.37021 ppb		91
56)	Bromobenzene	20.50	156	7306	2.06140 ppb		84
57)	n-Propylbenzene	20.48	91	46150	2.61667 ppb		96
58)	2-Chlorotoluene	20.77	91	33708	2.86793 ppb		90
59)	1,3,5-Trimethylbenzene	20.75	105	30396	2.50706 ppb		99
60)	4-Chlorotoluene	20.85	91	27791	2.72403 ppb		85
61)	Tert-Butylbenzene	21.39	119	26147	2.02660 ppb		96
62)	1,2,4-Trimethylbenzene	21.45	105	30634	2.49604 ppb		98
63)	Sec-Butylbenzene	21.79	105	38376	2.25562 ppb		98
64)	p-Isopropyltoluene	22.02	119	27655	2.00427 ppb		97
65)	1,3-DCB	22.16	146	13287	1.83582 ppb		95
66)	1,4-DCB	22.33	146	12745	1.92927 ppb		89
67)	n-Butylbenzene	22.73	91	29800	2.46554 ppb		91
68)	1,2-DCB	22.96	146	10288	1.77286 ppb		92
69)	1,2-Dibromo-3-chloropropan	24.16	157	399	1.20034 ppb		96
70)	1,2,4-Trichlorobenzene	25.61	180	3039	1.53997 ppb		98
71)	Hexachlorobutadiene	25.86	223	1512	1.53456 ppb		94
72)	Naphthalene	25.97	128	3667	1.71207 ppb		95
73)	1,2,3-Trichlorobenzene	26.33	180	6238	1.57719 ppb		96

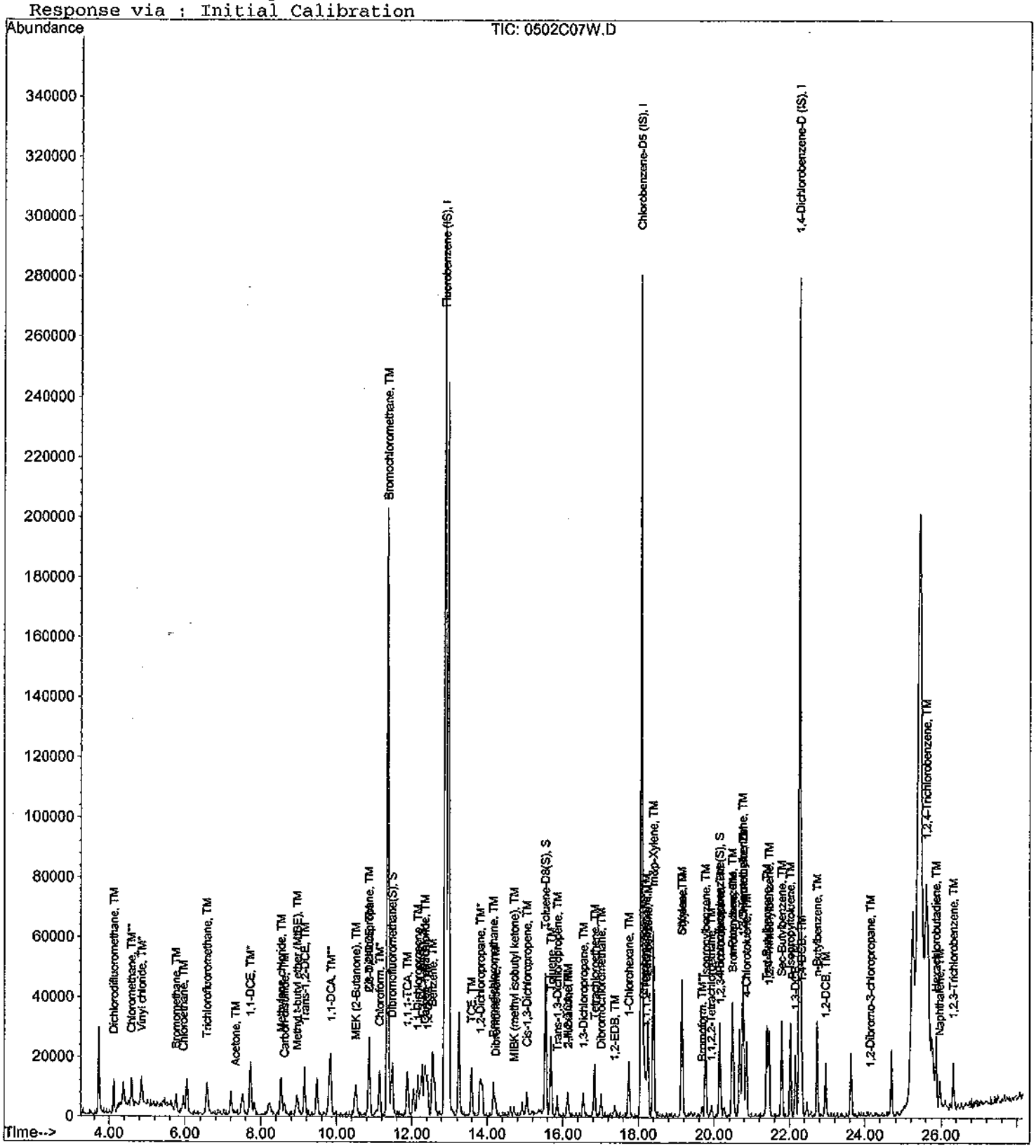
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C07W.D Vial: 1
Acq On : 2 May 11 19:08 Operator: RS
Sample : Vol Std 05-02-11@2.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C08W.D Vial: 1
Acq On : 2 May 11 19:43 Operator: RS
Sample : Vol Std 05-02-11@5.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.89	96	130648	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.08	117	75504	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.28	152	42480	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.47	111	42154	10.04167 ppb		0.00
Spiked Amount 23.521			Recovery = 42.695%			
23) 1,2-DCA-D4(S)	12.28	65	41730	14.61642 ppb		0.00
Spiked Amount 22.321			Recovery = 65.482%			
36) Toluene-D8(S)	15.55	98	132975	11.96464 ppb		0.00
Spiked Amount 26.002			Recovery = 46.016%			
44) 4-Bromofluorobenzene(S)	20.15	95	52073	12.56288 ppb		0.00
Spiked Amount 26.339			Recovery = 47.698%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.11	85	32614	6.93551 ppb		93
3) Chloromethane	4.60	50	40001	8.99930 ppb		97
4) Vinyl chloride	4.86	62	9355	7.48319 ppb		98
5) Bromomethane	5.77	94	5895	5.11458 ppb		88
6) Chloroethane	5.95	64	16586	6.01871 ppb		97
7) Trichlorofluoromethane	6.57	101	44553	7.44617 ppb		89
8) Acetone	7.32	43	2936	10.10157 ppb	#	73
9) 1,1-DCE	7.73	96	19113	6.97330 ppb		96
10) Methylene chloride	8.51	84	19700	6.57687 ppb		99
11) Carbon disulfide	8.61	76	17562	1.83001 ppb	#	86
12) Methyl t-butyl ether (MtBE	8.95	73	29408	6.44902 ppb	#	90
13) Trans-1,2-DCE	9.15	96	21880	6.56242 ppb		96
14) 1,1-DCA	9.84	63	44291	7.68973 ppb		97
15) MEK (2-Butanone)	10.48	43	8202	7.43861 ppb		100
16) Cis-1,2-DCE	10.86	96	22089	5.65359 ppb		99
17) 2,2-Dichloropropane	10.86	77	37944	7.17774 ppb		90
18) Chloroform	11.14	83	42691	6.99759 ppb		100
19) Bromochloromethane	11.37	128	5888	4.63954 ppb	#	74
21) 1,1,1-TCA	11.89	97	45193	7.52912 ppb		97
22) 1,1-Dichloropropene	12.16	75	30520	7.58951 ppb		96
24) Carbon Tetrachloride	12.34	117	38573	7.27654 ppb		99
25) 1,2-DCA	12.42	62	23653	8.79525 ppb		99
26) Benzene	12.55	78	78816	6.70430 ppb		96
27) TCE	13.58	95	24494	6.34374 ppb		95
28) 1,2-Dichloropropane	13.81	63	17592	6.13842 ppb		98
29) Bromodichloromethane	14.16	83	28284	6.89779 ppb	#	91
30) Dibromomethane	14.22	93	9663	7.00603 ppb		86
31) Cis-1,3-Dichloropropene	15.04	75	27098	6.69304 ppb		85
32) Toluene	15.68	92	47888	5.70495 ppb		94
33) Trans-1,3-Dichloropropene	15.84	75	20989	6.86476 ppb		99
34) 1,1,2-TCA	16.12	83	8409	6.25016 ppb		95
37) 1,2-EDB	17.37	107	9173	6.63039 ppb	#	98
38) Tetrachloroethene	16.83	164	14204	5.35013 ppb		91
39) 1-Chlorohexane	17.75	91	24057	5.57780 ppb		83
40) 1,1,1,2-Tetrachloroethane	18.20	131	17353	6.13808 ppb		91
41) m&p-Xylene	18.40	106	64826	11.91895 ppb		99
42) o-Xylene	19.14	106	32004	6.01334 ppb		89
43) Styrene	19.15	78	34277	8.15294 ppb		76
45) 2-Hexanone	16.16	43	3863	8.65460 ppb		99

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C08W.D Vial: 1
Acq On : 2 May 11 19:43 Operator: RS
Sample : Vol Std 05-02-11@5.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.54	76	18271	7.80392	ppb		86
47)	Dibromochloromethane	17.02	129	14053	6.41814	ppb		100
48)	Chlorobenzene	18.15	112	41214	5.30800	ppb		89
49)	Ethylbenzene	18.25	91	100972	7.30437	ppb		93
50)	Bromoform	19.68	173	6157	4.94320	ppb		99
52)	MIBK (methyl isobutyl keto	14.70	43	5516	6.96622	ppb		95
53)	Isopropylbenzene	19.77	105	97046	6.37083	ppb		98
54)	1,1,2,2-Tetrachloroethane	19.94	83	7423	5.86752	ppb	#	77
55)	1,2,3-Trichloropropane	20.19	110	2857	7.26079	ppb		87
56)	Bromobenzene	20.52	156	17204	4.90807	ppb		91
57)	n-Propylbenzene	20.48	91	116412	6.67380	ppb		95
58)	2-Chlorotoluene	20.77	91	84267	7.24924	ppb		96
59)	1,3,5-Trimethylbenzene	20.75	105	79174	6.60281	ppb		98
60)	4-Chlorotoluene	20.86	91	70959	7.03257	ppb		94
61)	Tert-Butylbenzene	21.40	119	67099	5.25850	ppb		92
62)	1,2,4-Trimethylbenzene	21.46	105	80838	6.65981	ppb		96
63)	Sec-Butylbenzene	21.80	105	97661	5.80399	ppb		97
64)	p-Isopropyltoluene	22.03	119	71532	5.24181	ppb		98
65)	1,3-DCB	22.16	146	35550	4.96639	ppb		95
66)	1,4-DCB	22.33	146	33243	5.08805	ppb		95
67)	n-Butylbenzene	22.73	91	76413	6.39236	ppb		98
68)	1,2-DCB	22.97	146	29306	5.10622	ppb		99
69)	1,2-Dibromo-3-chloropropan	24.18	157	1226	3.72923	ppb	#	48
70)	1,2,4-Trichlorobenzene	25.62	180	8347	4.27672	ppb		94
71)	Hexachlorobutadiene	25.87	223	3788	3.88723	ppb		79
72)	Naphthalene	25.96	128	10478	4.94638	ppb		95
73)	1,2,3-Trichlorobenzene	26.32	180	17207	4.39889	ppb		92

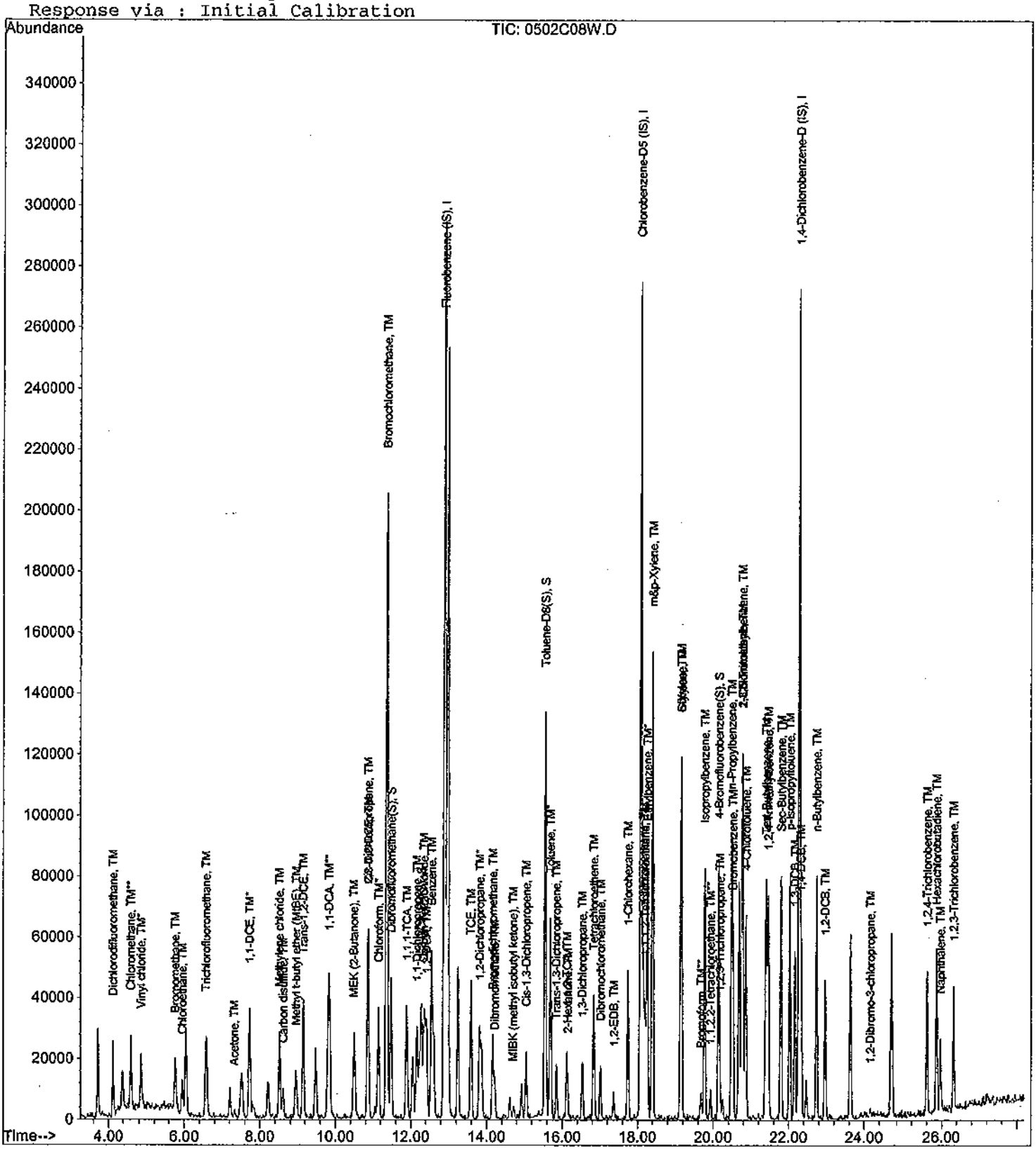
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C08W.D Vial: 1
Acq On : 2 May 11 19:43 Operator: RS
Sample : Vol Std 05-02-11@5.0ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C09W.D Vial: 1
Acq On : 2 May 11 20:19 Operator: RS
Sample : Vol Std 05-02-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	96	134080	25.00000 ppb	0.00
35) Chlorobenzene-D5 (IS)	18.08	117	78120	25.00000 ppb	0.00
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	42752	25.00000 ppb	0.00
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.47	111	101618	23.58722 ppb	0.00
Spiked Amount 23.521			Recovery	= 100.283%	
23) 1,2-DCA-D4(S)	12.27	65	100810	34.40606 ppb	0.00
Spiked Amount 22.321			Recovery	= 154.145%	
36) Toluene-D8(S)	15.54	98	332532	28.91818 ppb	0.00
Spiked Amount 26.002			Recovery	= 111.215%	
44) 4-Bromofluorobenzene(S)	20.15	95	131807	34.81114 ppb	0.00
Spiked Amount 26.339			Recovery	= 132.168%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.12	85	71529	14.82161 ppb	100
3) Chloromethane	4.59	50	73933	16.20746 ppb	100
4) Vinyl chloride	4.85	62	19632	15.30193 ppb	100
5) Bromomethane	5.77	94	13337	11.83002 ppb	100
6) Chloroethane	5.96	64	34080	12.05037 ppb	100
7) Trichlorofluoromethane	6.57	101	98470	16.03611 ppb	100
8) Acetone	7.34	43	4860	18.67994 ppb	100
9) 1,1-DCE	7.73	96	39614	14.08306 ppb	100
10) Methylene chloride	8.52	84	38888	14.54413 ppb	100
11) Carbon disulfide	8.61	76	37480	3.80555 ppb	100
12) Methyl t-butyl ether (MtBE	8.94	73	61834	13.21278 ppb	100
13) Trans-1,2-DCE	9.15	96	46731	15.13749 ppb	100
14) 1,1-DCA	9.84	63	89005	15.05736 ppb	100
15) MEK (2-Butanone)	10.47	43	16862	14.90115 ppb	100
16) Cis-1,2-DCE	10.86	96	47018	11.72604 ppb	100
17) 2,2-Dichloropropane	10.86	77	78862	14.53621 ppb	100
18) Chloroform	11.14	83	90274	14.41829 ppb	100
19) Bromochloromethane	11.36	128	12773	9.80706 ppb	100
21) 1,1,1-TCA	11.89	97	93863	15.23724 ppb	100
22) 1,1-Dichloropropene	12.16	75	69281	16.78734 ppb	100
24) Carbon Tetrachloride	12.34	117	85176	15.65661 ppb	100
25) 1,2-DCA	12.43	62	48535	17.58554 ppb	100
26) Benzene	12.55	78	164265	13.61516 ppb	100
27) TCE	13.58	95	54332	13.71134 ppb	100
28) 1,2-Dichloropropane	13.81	63	38310	13.02543 ppb	100
29) Bromodichloromethane	14.16	83	58218	13.83455 ppb	100
30) Dibromomethane	14.22	93	19009	13.42944 ppb	100
31) Cis-1,3-Dichloropropene	15.05	75	54082	13.01601 ppb	100
32) Toluene	15.68	92	99724	11.57613 ppb	100
33) Trans-1,3-Dichloropropene	15.84	75	43445	13.84561 ppb	100
34) 1,1,2-TCA	16.12	83	16653	12.06085 ppb	100
37) 1,2-EDB	17.37	107	18589	12.98649 ppb	100
38) Tetrachloroethene	16.84	164	29206	10.63246 ppb	100
39) 1-Chlorohexane	17.75	91	52918	11.85858 ppb	100
40) 1,1,1,2-Tetrachloroethane	18.20	131	37218	12.72385 ppb	100
41) m&p-Xylene	18.40	106	137337	24.40529 ppb	100
42) o-Xylene	19.14	106	65705	11.93211 ppb	100
43) Styrene	19.16	78	70932	16.30652 ppb	100
45) 2-Hexanone	16.14	43	8598	18.61777 ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C09W.D Vial: 1
Acq On : 2 May 11 20:19 Operator: RS
Sample : Vol Std 05-02-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,3-Dichloropropane	16.54	76	38437	15.86746	ppb	100
47)	Dibromochloromethane	17.01	129	30404	13.42080	ppb	100
48)	Chlorobenzene	18.14	112	91193	11.35156	ppb	100
49)	Ethylbenzene	18.26	91	213618	14.93576	ppb	100
50)	Bromoform	19.67	173	14210	11.02659	ppb	100
52)	MIBK (methyl isobutyl keto	14.72	43	13262	16.64217	ppb	100
53)	Isopropylbenzene	19.77	105	206115	13.44484	ppb	100
54)	1,1,2,2-Tetrachloroethane	19.93	83	17700	13.90198	ppb	100
55)	1,2,3-Trichloropropane	20.20	110	5475	13.82567	ppb	100
56)	Bromobenzene	20.51	156	35913	10.18031	ppb	100
57)	n-Propylbenzene	20.48	91	256946	14.63678	ppb	100
58)	2-Chlorotoluene	20.78	91	176243	15.06520	ppb	100
59)	1,3,5-Trimethylbenzene	20.76	105	163852	13.57770	ppb	100
60)	4-Chlorotoluene	20.85	91	151585	14.92764	ppb	100
61)	Tert-Butylbenzene	21.39	119	148676	11.57749	ppb	100
62)	1,2,4-Trimethylbenzene	21.45	105	166039	13.59204	ppb	100
63)	Sec-Butylbenzene	21.79	105	216645	12.79328	ppb	100
64)	p-Isopropyltoluene	22.02	119	156069	11.36386	ppb	100
65)	1,3-DCB	22.17	146	72931	10.12376	ppb	100
66)	1,4-DCB	22.33	146	70838	10.77322	ppb	100
67)	n-Butylbenzene	22.73	91	168453	14.00236	ppb	100
68)	1,2-DCB	22.96	146	60972	10.55605	ppb	100
69)	1,2-Dibromo-3-chloropropan	24.18	157	3627	10.96237	ppb	100
70)	1,2,4-Trichlorobenzene	25.61	180	16228	8.26178	ppb	100
71)	Hexachlorobutadiene	25.87	223	8720	8.89150	ppb	100
72)	Naphthalene	25.97	128	20992	9.84670	ppb	100
73)	1,2,3-Trichlorobenzene	26.33	180	34393	8.73647	ppb	100

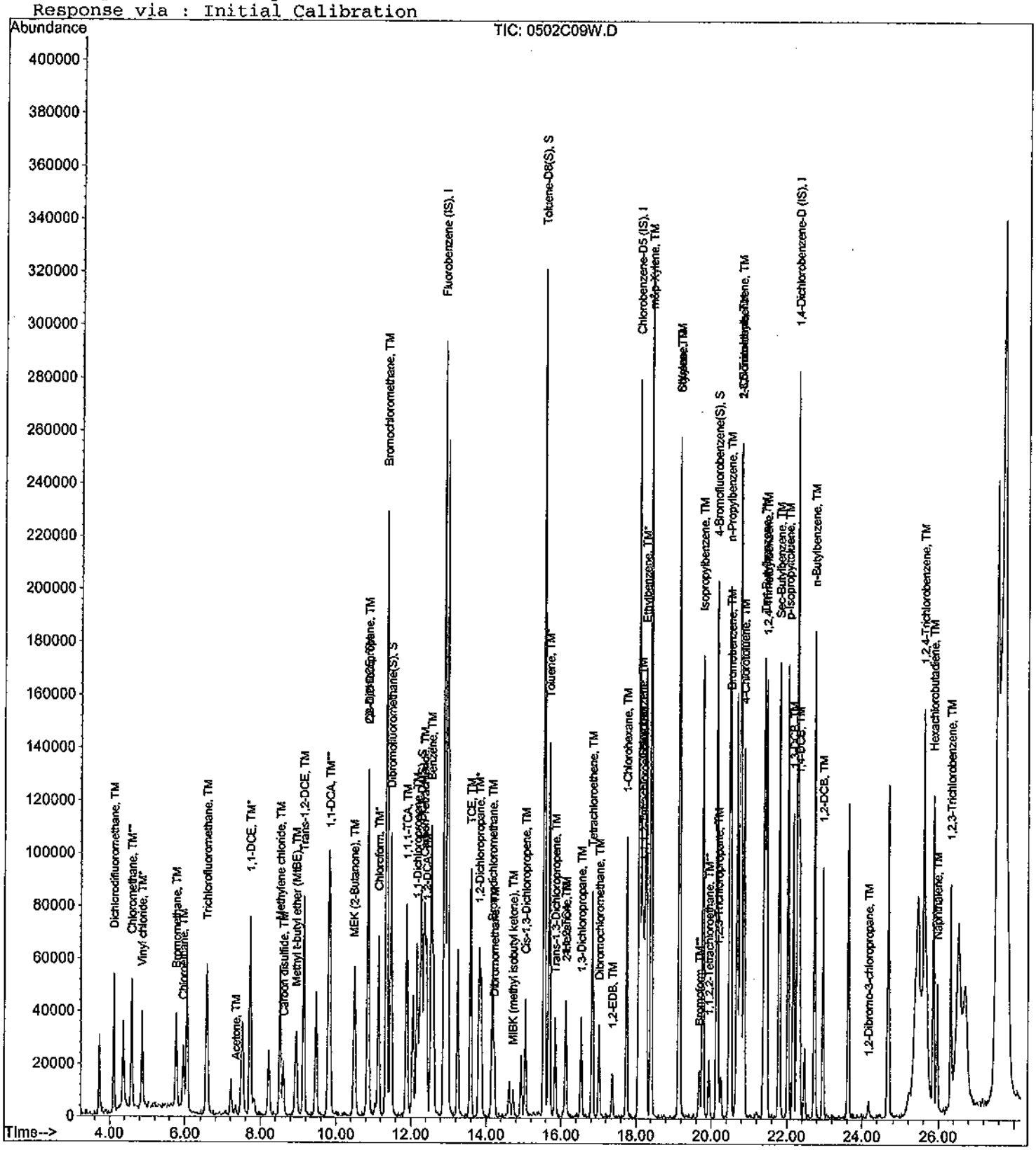
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C09W.D Vial: 1
Acq On : 2 May 11 20:19 Operator: RS
Sample : Vol Std 05-02-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C10W.D Vial: 1
Acq On : 2 May 11 20:54 Operator: RS
Sample : Vol Std 05-02-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.89	96	149952	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.08	117	85928	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.28	152	48496	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.47	111	175959	36.51988 ppb		0.00
Spiked Amount 23.521			Recovery = 155.269%			
23) 1,2-DCA-D4(S)	12.27	65	168208	51.33217 ppb		0.00
Spiked Amount 22.321			Recovery = 229.976%			
36) Toluene-D8(S)	15.54	98	554578	43.84577 ppb		0.00
Spiked Amount 26.002			Recovery = 168.627%			
44) 4-Bromofluorobenzene(S)	20.15	95	227506	56.23045 ppb		0.00
Spiked Amount 26.339			Recovery = 213.490%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	170096	31.51512 ppb		99
3) Chloromethane	4.59	50	151702	29.73581 ppb		96
4) Vinyl chloride	4.85	62	39936	27.83287 ppb		99
5) Bromomethane	5.77	94	25280	20.37017 ppb		81
6) Chloroethane	5.96	64	72421	22.89691 ppb		92
7) Trichlorofluoromethane	6.58	101	190876	27.79445 ppb		97
8) Acetone	7.33	43	9382	35.07120 ppb	#	70
9) 1,1-DCE	7.73	96	86573	27.51963 ppb		96
10) Methylene chloride	8.53	84	78797	28.01538 ppb		87
11) Carbon disulfide	8.61	76	79655	7.23174 ppb		96
12) Methyl t-butyl ether (MtBE	8.95	73	127844	24.42637 ppb		98
13) Trans-1,2-DCE	9.15	96	95244	28.71267 ppb		97
14) 1,1-DCA	9.84	63	180156	27.25179 ppb		99
15) MEK (2-Butanone)	10.48	43	36472	28.81921 ppb		98
16) Cis-1,2-DCE	10.86	96	96545	21.52925 ppb		97
17) 2,2-Dichloropropane	10.86	77	158546	26.13066 ppb		96
18) Chloroform	11.15	83	182460	26.05737 ppb		93
19) Bromochloromethane	11.36	128	28615	19.64498 ppb		94
21) 1,1,1-TCA	11.89	97	196768	28.56131 ppb		98
22) 1,1-Dichloropropene	12.16	75	139865	30.30321 ppb		98
24) Carbon Tetrachloride	12.35	117	171050	28.11353 ppb		96
25) 1,2-DCA	12.43	62	99276	32.16301 ppb		99
26) Benzene	12.55	78	337757	25.03189 ppb		97
27) TCE	13.59	95	110100	24.84410 ppb		96
28) 1,2-Dichloropropane	13.81	63	80403	24.44354 ppb		97
29) Bromodichloromethane	14.16	83	119318	25.35277 ppb	#	99
30) Dibromomethane	14.22	93	39871	25.18649 ppb		93
31) Cis-1,3-Dichloropropene	15.05	75	114908	24.72789 ppb		98
32) Toluene	15.68	92	207223	21.50867 ppb		99
33) Trans-1,3-Dichloropropene	15.84	75	90420	25.76609 ppb		99
34) 1,1,2-TCA	16.12	83	34197	22.14549 ppb		91
37) 1,2-EDB	17.37	107	40747	25.87968 ppb		91
38) Tetrachloroethene	16.83	164	63164	20.90542 ppb		99
39) 1-Chlorohexane	17.75	91	111337	22.68278 ppb		90
40) 1,1,1,2-Tetrachloroethane	18.19	131	77803	24.18184 ppb		95
41) m&p-Xylene	18.40	106	282074	45.57083 ppb		97
42) o-Xylene	19.14	106	143892	23.75653 ppb		81
43) Styrene	19.16	78	145776	30.46722 ppb		96
45) 2-Hexanone	16.14	43	17714	34.87180 ppb	#	76

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C10W.D Vial: 1
Acq On : 2 May 11 20:54 Operator: RS
Sample : Vol Std 05-02-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) 1,3-Dichloropropane	16.54	76	78651	29.51819 ppb	98
47) Dibromochloromethane	17.01	129	63537	25.49775 ppb	99
48) Chlorobenzene	18.14	112	191375	21.65742 ppb	96
49) Ethylbenzene	18.25	91	436359	27.73710 ppb	98
50) Bromoform	19.67	173	31448	22.18542 ppb	93
52) MIBK (methyl isobutyl keto	14.71	43	27784	30.73591 ppb	84
53) Isopropylbenzene	19.77	105	422078	24.27110 ppb	100
54) 1,1,2,2-Tetrachloroethane	19.93	83	36115	25.00585 ppb	96
55) 1,2,3-Trichloropropane	20.19	110	12513	27.85569 ppb	97
56) Bromobenzene	20.51	156	76881	19.21229 ppb	93
57) n-Propylbenzene	20.48	91	522492	26.23819 ppb	97
58) 2-Chlorotoluene	20.78	91	353791	26.66002 ppb	98
59) 1,3,5-Trimethylbenzene	20.75	105	350079	25.57355 ppb	98
60) 4-Chlorotoluene	20.85	91	303922	26.38442 ppb	100
61) Tert-Butylbenzene	21.40	119	319331	21.92125 ppb	94
62) 1,2,4-Trimethylbenzene	21.45	105	352731	25.45474 ppb	96
63) Sec-Butylbenzene	21.79	105	454634	23.66713 ppb	99
64) p-Isopropyltoluene	22.02	119	334831	21.49242 ppb	97
65) 1,3-DCB	22.17	146	156428	19.14232 ppb	96
66) 1,4-DCB	22.33	146	148403	19.89631 ppb	95
67) n-Butylbenzene	22.73	91	344991	25.28021 ppb	98
68) 1,2-DCB	22.96	146	131699	20.10038 ppb	94
69) 1,2-Dibromo-3-chloropropan	24.17	157	7429	19.79419 ppb	86
70) 1,2,4-Trichlorobenzene	25.61	180	38592	17.32034 ppb	94
71) Hexachlorobutadiene	25.86	223	18200	16.35989 ppb	84
72) Naphthalene	25.96	128	49456	20.45062 ppb	95
73) 1,2,3-Trichlorobenzene	26.33	180	77871	17.43782 ppb	95

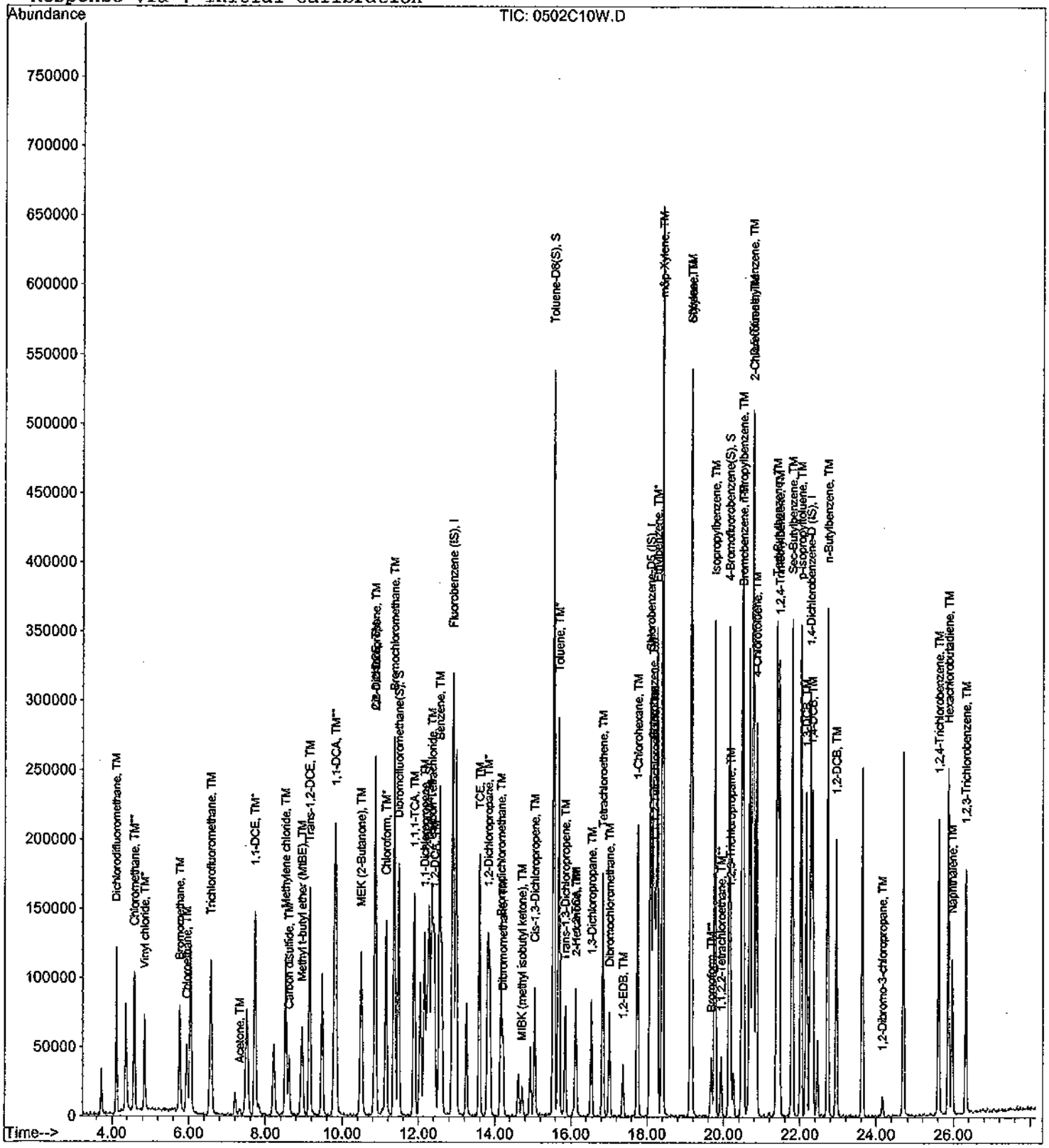
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C10W.D Vial: 1
Acq On : 2 May 11 20:54 Operator: RS
Sample : Vol Std 05-02-11@20ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C11W.D Vial: 1
Acq On : 2 May 11 21:29 Operator: RS
Sample : Vol Std 05-02-11@40ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.88	96	148736	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.08	117	87472	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	48800	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.47	111	343962	71.97215 ppb		0.00
Spiked Amount 23.521			Recovery = 305.997%			
23) 1,2-DCA-D4(S)	12.27	65	330439	101.66477 ppb		0.00
Spiked Amount 22.321			Recovery = 455.476%			
36) Toluene-D8(S)	15.54	98	1116804	86.73765 ppb		0.00
Spiked Amount 26.002			Recovery = 333.585%			
44) 4-Bromofluorobenzene(S)	20.15	95	441066	109.63910 ppb		0.00
Spiked Amount 26.339			Recovery = 416.269%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	321903	60.12928 ppb		99
3) Chloromethane	4.59	50	290719	57.45106 ppb		97
4) Vinyl chloride	4.84	62	84728	59.53284 ppb		97
5) Bromomethane	5.77	94	52192	42.89736 ppb		93
6) Chloroethane	5.96	64	143346	45.69137 ppb		92
7) Trichlorofluoromethane	6.56	101	377027	55.34972 ppb		98
8) Acetone	7.33	43	18101	71.89727 ppb		88
9) 1,1-DCE	7.73	96	166939	53.50005 ppb		94
10) Methylene chloride	8.52	84	151114	56.08019 ppb		94
11) Carbon disulfide	8.61	76	152135	13.92499 ppb		96
12) Methyl t-butyl ether (MtBE	8.94	73	248902	47.94499 ppb		97
13) Trans-1,2-DCE	9.15	96	191307	59.54724 ppb		96
14) 1,1-DCA	9.83	63	355351	54.19260 ppb		99
15) MEK (2-Butanone)	10.48	43	67626	53.87315 ppb		97
16) Cis-1,2-DCE	10.86	96	192161	43.20167 ppb		93
17) 2,2-Dichloropropane	10.85	77	310645	51.61734 ppb		99
18) Chloroform	11.14	83	357771	51.51150 ppb		97
19) Bromochloromethane	11.36	128	55635	38.50721 ppb		89
21) 1,1,1-TCA	11.89	97	394588	57.74358 ppb		99
22) 1,1-Dichloropropene	12.16	75	280810	61.33782 ppb		95
24) Carbon Tetrachloride	12.34	117	344917	57.15353 ppb		97
25) 1,2-DCA	12.43	62	188272	61.49423 ppb		98
26) Benzene	12.54	78	668351	49.93788 ppb		98
27) TCE	13.58	95	220845	50.24117 ppb		94
28) 1,2-Dichloropropane	13.80	63	159621	48.92356 ppb		97
29) Bromodichloromethane	14.16	83	239495	51.30410 ppb	#	97
30) Dibromomethane	14.21	93	79169	50.41988 ppb		90
31) Cis-1,3-Dichloropropene	15.05	75	231517	50.22916 ppb		97
32) Toluene	15.68	92	409226	42.82279 ppb		100
33) Trans-1,3-Dichloropropene	15.84	75	181997	52.28588 ppb		100
34) 1,1,2-TCA	16.12	83	70216	45.84262 ppb		92
37) 1,2-EDB	17.37	107	80021	49.92670 ppb		97
38) Tetrachloroethene	16.83	164	127943	41.59789 ppb		96
39) 1-Chlorohexane	17.74	91	228361	45.70295 ppb		94
40) 1,1,1,2-Tetrachloroethane	18.19	131	155488	47.47396 ppb		97
41) m&p-Xylene	18.40	106	571226	90.65621 ppb		97
42) o-Xylene	19.14	106	284399	46.12540 ppb		84
43) Styrene	19.15	78	284292	58.36830 ppb		95
45) 2-Hexanone	16.14	43	36854	71.27021 ppb		84

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

Data File : M:\CHICO\DATA\C110502\0502C11W.D Vial: 1
Acq On : 2 May 11 21:29 Operator: RS
Sample : Vol Std 05-02-11@40ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) 1,3-Dichloropropane	16.53	76	157935	58.22769 ppb	100
47) Dibromochloromethane	17.01	129	128283	50.57198 ppb	94
48) Chlorobenzene	18.14	112	382084	42.47623 ppb	98
49) Ethylbenzene	18.25	91	867270	54.15482 ppb	97
50) Bromoform	19.68	173	63323	43.88355 ppb	95
52) MIBK (methyl isobutyl keto	14.71	43	53080	58.35370 ppb	96
53) Isopropylbenzene	19.77	105	875000	50.00240 ppb	100
54) 1,1,2,2-Tetrachloroethane	19.92	83	74507	51.26691 ppb	95
55) 1,2,3-Trichloropropane	20.19	110	24974	55.24928 ppb	84
56) Bromobenzene	20.51	156	147985	36.75055 ppb	98
57) n-Propylbenzene	20.48	91	1034879	51.64520 ppb	97
58) 2-Chlorotoluene	20.78	91	698103	52.27803 ppb	100
59) 1,3,5-Trimethylbenzene	20.75	105	654346	47.50273 ppb	99
60) 4-Chlorotoluene	20.85	91	596122	51.42883 ppb	99
61) Tert-Butylbenzene	21.39	119	636123	43.39617 ppb	94
62) 1,2,4-Trimethylbenzene	21.45	105	695898	49.90646 ppb	97
63) Sec-Butylbenzene	21.79	105	907671	46.95678 ppb	100
64) p-Isopropyltoluene	22.02	119	672293	42.88490 ppb	98
65) 1,3-DCB	22.16	146	315348	38.34919 ppb	97
66) 1,4-DCB	22.33	146	296667	39.52621 ppb	94
67) n-Butylbenzene	22.73	91	688758	50.15632 ppb	98
68) 1,2-DCB	22.96	146	256534	38.90924 ppb	99
69) 1,2-Dibromo-3-chloropropan	24.17	157	14052	37.20759 ppb	80
70) 1,2,4-Trichlorobenzene	25.61	180	78400	34.96723 ppb	95
71) Hexachlorobutadiene	25.86	223	38016	33.95952 ppb	86
72) Naphthalene	25.96	128	100272	41.20532 ppb	95
73) 1,2,3-Trichlorobenzene	26.32	180	158247	35.21583 ppb	97

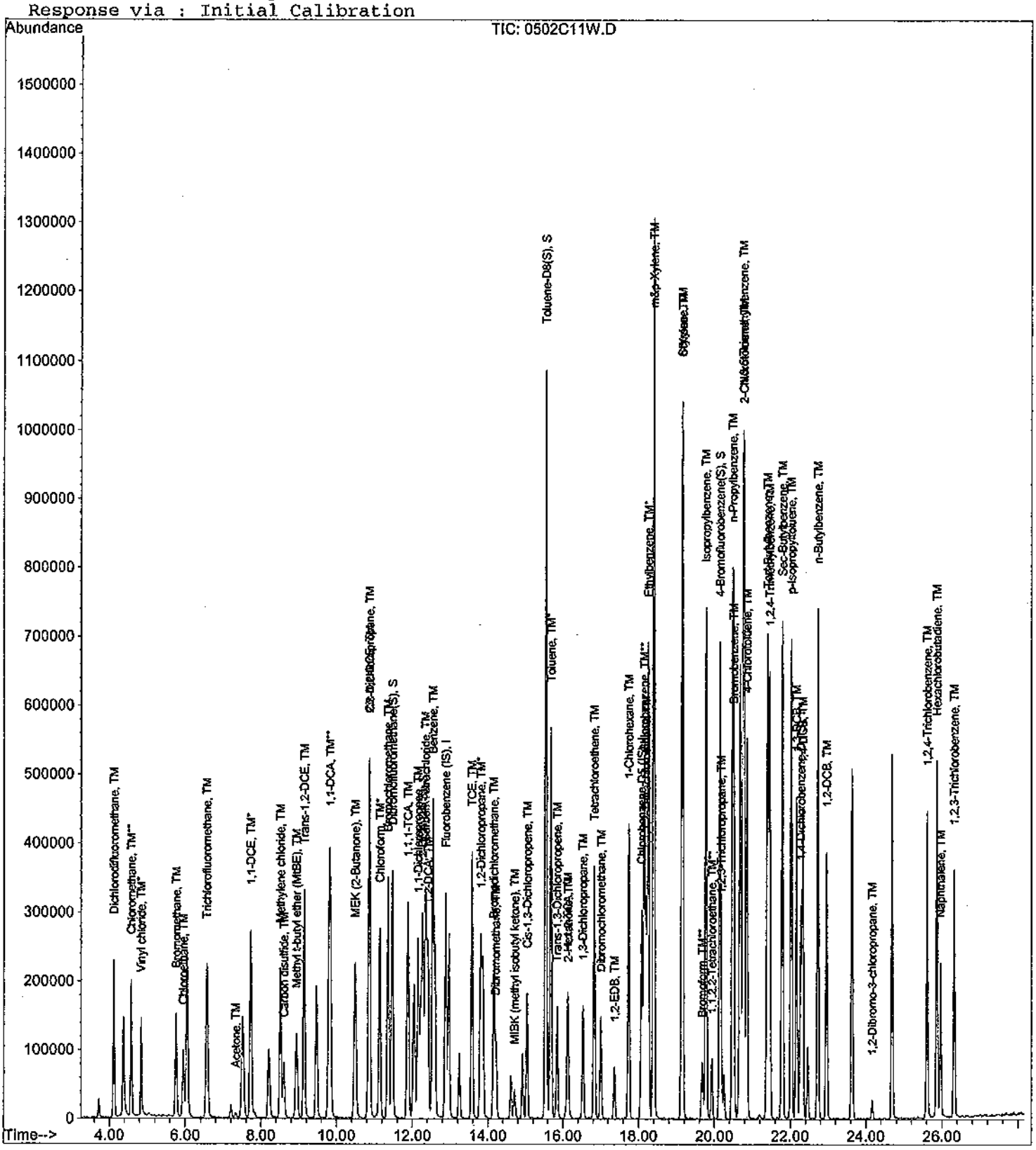
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C11W.D Vial: 1
Acq On : 2 May 11 21:29 Operator: RS
Sample : Vol Std 05-02-11@40ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C12W.D Vial: 1
Acq On : 2 May 11 22:04 Operator: RS
Sample : Vol Std 05-02-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.88	96	169600	25.00000 ppb		-0.01
35) Chlorobenzene-D5 (IS)	18.08	117	100120	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	55248	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.47	111	495369	90.90193 ppb		0.00
Spiked Amount 23.521			Recovery = 386.480%			
23) 1,2-DCA-D4(S)	12.27	65	441105	119.01766 ppb		0.00
Spiked Amount 22.321			Recovery = 533.220%			
36) Toluene-D8(S)	15.54	98	1614606	109.55834 ppb		0.00
Spiked Amount 26.002			Recovery = 421.348%			
44) 4-Bromofluorobenzene(S)	20.15	95	607573	132.52330 ppb		0.00
Spiked Amount 26.339			Recovery = 503.153%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.11	85	859463	140.79215 ppb		100
3) Chloromethane	4.59	50	764159	132.43373 ppb		97
4) Vinyl chloride	4.84	62	226240	139.40851 ppb		97
5) Bromomethane	5.76	94	142016	103.00421 ppb		89
6) Chloroethane	5.95	64	379511	106.08725 ppb		92
7) Trichlorofluoromethane	6.56	101	1000938	128.86660 ppb		95
8) Acetone	7.32	43	48104	172.74536 ppb		98
9) 1,1-DCE	7.72	96	475932	133.76161 ppb		90
10) Methylene chloride	8.52	84	406369	135.04141 ppb		95
11) Carbon disulfide	8.60	76	418094	33.56061 ppb	#	91
12) Methyl t-butyl ether (MtBE	8.94	73	684039	115.55425 ppb		98
13) Trans-1,2-DCE	9.15	96	531223	146.97514 ppb		93
14) 1,1-DCA	9.83	63	936594	125.26335 ppb		99
15) MEK (2-Butanone)	10.48	43	183074	127.90150 ppb		94
16) Cis-1,2-DCE	10.86	96	526275	103.76198 ppb		93
17) 2,2-Dichloropropane	10.86	77	811675	118.27791 ppb		100
18) Chloroform	11.14	83	971602	122.68112 ppb		98
19) Bromochloromethane	11.36	128	157359	95.51592 ppb		91
21) 1,1,1-TCA	11.88	97	1050741	134.84838 ppb		97
22) 1,1-Dichloropropene	12.15	75	756311	144.87932 ppb		94
24) Carbon Tetrachloride	12.34	117	930562	135.22718 ppb		96
25) 1,2-DCA	12.43	62	510038	146.09703 ppb		97
26) Benzene	12.54	78	1826198	119.66402 ppb		97
27) TCE	13.58	95	621363	123.96749 ppb		92
28) 1,2-Dichloropropane	13.81	63	433258	116.45679 ppb		100
29) Bromodichloromethane	14.16	83	643831	120.95331 ppb	#	95
30) Dibromomethane	14.22	93	220313	123.04870 ppb		92
31) Cis-1,3-Dichloropropene	15.05	75	639466	121.66923 ppb		100
32) Toluene	15.68	92	1172189	107.57210 ppb		98
33) Trans-1,3-Dichloropropene	15.84	75	494519	124.59294 ppb		98
34) 1,1,2-TCA	16.12	83	194884	111.58345 ppb		90
37) 1,2-EDB	17.37	107	236246	128.77796 ppb	#	97
38) Tetrachloroethene	16.83	164	376838	107.04286 ppb		97
39) 1-Chlorohexane	17.74	91	647431	113.20459 ppb		90
40) 1,1,1,2-Tetrachloroethane	18.19	131	426001	113.63639 ppb		97
41) m&p-Xylene	18.39	106	1572765	218.07286 ppb		92
42) o-Xylene	19.14	106	789148	111.81981 ppb		77
43) Styrene	19.16	78	735717	131.96884 ppb		88
45) 2-Hexanone	16.14	43	97788	165.21793 ppb		86

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C12W.D Vial: 1
Acq On : 2 May 11 22:04 Operator: RS
Sample : Vol Std 05-02-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:07:15 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
46)	1,3-Dichloropropane	16.54	76	444944	143.31931 ppb		97
47)	Dibromochloromethane	17.01	129	362509	124.85555 ppb		94
48)	Chlorobenzene	18.14	112	1067414	103.67361 ppb		94
49)	Ethylbenzene	18.25	91	2332568	127.25220 ppb		98
50)	Bromoform	19.67	173	179810	108.86852 ppb		89
52)	MIBK (methyl isobutyl keto	14.71	43	157256	152.70313 ppb		98
53)	Isopropylbenzene	19.77	105	2323332	117.27281 ppb		97
54)	1,1,2,2-Tetrachloroethane	19.93	83	191697	116.50877 ppb		99
55)	1,2,3-Trichloropropane	20.18	110	66210	129.37948 ppb		87
56)	Bromobenzene	20.51	156	404812	88.79791 ppb		92
57)	n-Propylbenzene	20.47	91	2753890	121.39205 ppb		94
58)	2-Chlorotoluene	20.77	91	1783528	117.97308 ppb		94
59)	1,3,5-Trimethylbenzene	20.75	105	1757625	112.70432 ppb		96
60)	4-Chlorotoluene	20.85	91	1534203	116.91160 ppb		99
61)	Tert-Butylbenzene	21.39	119	1714350	103.30303 ppb		90
62)	1,2,4-Trimethylbenzene	21.45	105	1854126	117.45018 ppb		100
63)	Sec-Butylbenzene	21.79	105	2443234	111.64471 ppb		97
64)	p-Isopropyltoluene	22.02	119	1861554	104.88775 ppb		95
65)	1,3-DCB	22.16	146	861489	92.53779 ppb		97
66)	1,4-DCB	22.33	146	844784	99.41798 ppb		93
67)	n-Butylbenzene	22.73	91	1887789	121.42712 ppb		94
68)	1,2-DCB	22.96	146	741243	99.30513 ppb		98
69)	1,2-Dibromo-3-chloropropan	24.17	157	46844	109.55966 ppb	#	71
70)	1,2,4-Trichlorobenzene	25.61	180	234368	92.33083 ppb		95
71)	Hexachlorobutadiene	25.86	223	114880	90.64478 ppb		90
72)	Naphthalene	25.96	128	302656	109.85659 ppb		93
73)	1,2,3-Trichlorobenzene	26.32	180	484564	95.24821 ppb		99

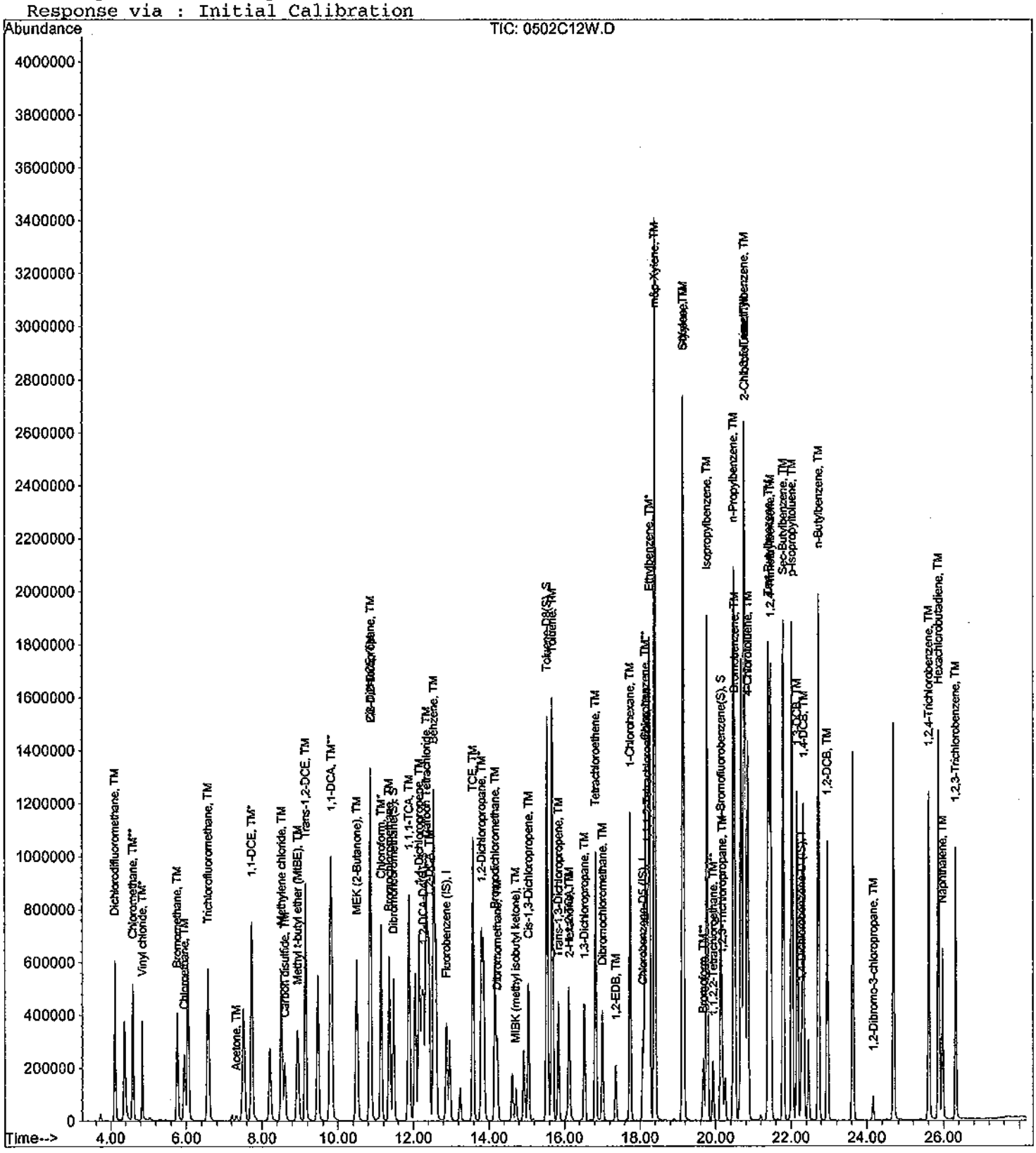
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C12W.D Vial: 1
Acq On : 2 May 11 22:04 Operator: RS
Sample : Vol Std 05-02-11@100ug/L Inst : Chico
Misc : Water 10ml w/IS: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:07 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

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

SDG No: 0544
Date Analyzed: 3 May 11 1:35
Instrument: Chico
Initial Cal. Date: 05/02/11
Data File: 0502C16W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	1.300	1.418	9.1	TM	
3	TM**	Chloromethane	1.473	1.274	13	TM**	
4	TM*	Vinyl chloride	0.3683	0.3300	10	TM*	
5	TM	Bromomethane	0.2125	0.1997	6.0	TM	
6	TM	Chloroethane	0.6154	0.6797	10	TM	
7	TM	Trichlorofluoromethane	1.658	1.787	7.7	TM	
8	TML	Acetone	0.1150	0.0909	21	TML	7.8
9	TM*	1,1-DCE	0.7306	0.7517	2.9	TM*	
10	TM	Methylene chloride	0.7301	0.6464	11	TM	
11	TM	Carbon disulfide	0.6614	0.6653	0.58	TM	
12	TM	Methyl t-butyl ether (MtBE)	1.063	0.9972	6.2	TM	
13	TM	Trans-1,2-DCE	0.8031	0.8359	4.1	TM	
14	TM**	1,1-DCA	1.584	1.608	1.5	TM**	
15	TM	MEK (2-Butanone)	0.3104	0.2811	9.4	TM	
16	TM	Cis-1,2-DCE	0.8124	0.8227	1.3	TM	
17	TM	2,2-Dichloropropane	1.384	1.288	6.9	TM	
18	TM*	Chloroform	1.589	1.564	1.6	TM*	
19	TM	Bromochloromethane	0.2340	0.2097	10	TM	
20	S	Dibromofluoromethane(S)	0.7603	0.7878	3.6	S	
21	TM	1,1,1-TCA	1.708	1.742	2.0	TM	
22	TM	1,1-Dichloropropene	1.193	1.286	7.8	TM	
23	S	1,2-DCA-D4(S)	0.7409	0.7371	0.52	S	
24	TM	Carbon Tetrachloride	1.453	1.531	5.3	TM	
25	TM	1,2-DCA	0.8642	0.8319	3.7	TM	
26	TM	Benzene	2.910	2.801	3.8	TM	
27	TM	TCE	0.9508	0.9522	0.15	TM	
28	TM*	1,2-Dichloropropane	0.6752	0.6329	6.3	TM*	
29	TM	Bromodichloromethane	1.004	0.9698	3.4	TM	
30	TM	Dibromomethane	0.3264	0.3185	2.4	TM	
31	TM	Cis-1,3-Dichloropropene	0.9520	0.8675	8.9	TM	
32	TM*	Toluene	1.750	1.753	0.18	TM*	
33	TM	Trans-1,3-Dichloropropene	0.7661	0.6980	8.9	TM	
34	TM	1,1,2-TCA	0.2915	0.2776	4.8	TM	
35	I	Chlorobenzene-D5 (IS)	ISTD			I	
36	S	Toluene-D8(S)	4.150	4.497	8.4	S	
37	TM	1,2-EDB	0.5694	0.5392	5.3	TM	
38	TM	Tetrachloroethene	0.9228	0.9675	4.8	TM	
39	TM	1-Chlorohexane	1.612	1.750	8.6	TM	
40	TM	1,1,1,2-Tetrachloroethane	1.106	1.085	1.9	TM	
		Average			5.9		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 6480M
Date Analyzed: 3 May 11 1:35
Instrument: Chico
Cal. Date: 05/02/11
Data File: 0502C16W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	m&p-Xylene	2.071	2.128	2.7	TM	
42	TM	o-Xylene	1.999	1.945	2.7	TM	
43	TM	Styrene	2.139	2.030	5.1	TM	
44	S	4-Bromofluorobenzene(S)	1.647	1.729	5.0	S	
45	TM	2-Hexanone	0.2658	0.2349	12	TM	
46	TM	1,3-Dichloropropane	1.156	1.086	6.1	TM	
47	TM	Dibromochloromethane	0.9048	0.8173	9.7	TM	
48	TM**	Chlorobenzene	2.771	2.740	1.1	TM**	
49	TM*	Ethylbenzene	6.504	6.533	0.45	TM*	
50	TM**	Bromoform	0.4303	0.4063	5.6	TM**	
51	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
52	TM	MIBK (methyl isobutyl ketone)	0.7083	0.6922	2.3	TM	
53	TM	Isopropylbenzene	11.2	12.0	6.5	TM	
54	TM**	1,1,2,2-Tetrachloroethane	0.9302	0.8931	4.0	TM**	
55	TM	1,2,3-Trichloropropane	0.3004	0.3188	6.1	TM	
56	TM	Bromobenzene	1.993	1.843	7.5	TM	
57	TM	n-Propylbenzene	13.6	14.7	8.2	TM	
58	TM	2-Chlorotoluene	9.553	9.915	3.8	TM	
59	TM	1,3,5-Trimethylbenzene	8.987	9.412	4.7	TM	
60	TM	4-Chlorotoluene	8.041	8.538	6.2	TM	
61	TM	Tert-Butylbenzene	8.019	8.483	5.8	TM	
62	TM	1,2,4-Trimethylbenzene	9.159	9.542	4.2	TM	
63	TM	Sec-Butylbenzene	11.6	12.7	9.1	TM	
64	TM	p-Isopropyltoluene	8.490	8.986	5.8	TM	
65	TM	1,3-DCB	3.982	4.050	1.7	TM	
66	TM	1,4-DCB	3.864	3.829	0.91	TM	
67	TM	n-Butylbenzene	9.055	10.0	11	TM	
68	TM	1,2-DCB	3.281	3.206	2.3	TM	
69	TML	1,2-Dibromo-3-chloropropane	0.1760	0.1447	18	TML	14
70	TM	1,2,4-Trichlorobenzene	1.036	0.8854	14	TM	
71	TM	Hexachlorobutadiene	0.5156	0.4645	9.9	TM	
72	TM	Naphthalene	1.294	1.183	8.6	TM	
73	TM	1,2,3-Trichlorobenzene	2.016	1.831	9.2	TM	
74							
75							
76							
77							
78							
79							
80							
		Average			6.3		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C16W.D Vial: 1
Acq On : 3 May 11 1:35 Operator: RS
Sample : Vol Std 05-02-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 3 11:51 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	12.87	96	137344	25.00000	ppb		-0.02
35) Chlorobenzene-D5 (IS)	18.07	117	79304	25.00000	ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	42280	25.00000	ppb		0.00
System Monitoring Compounds							
20) Dibromofluoromethane(S)	11.46	111	108202	25.90420	ppb		0.00
Spiked Amount 23.521			Recovery = 110.134%				
23) 1,2-DCA-D4(S)	12.27	65	101234	24.87071	ppb		0.00
Spiked Amount 22.321			Recovery = 111.426%				
36) Toluene-D8(S)	15.54	98	356626	27.09281	ppb		0.00
Spiked Amount 26.002			Recovery = 104.197%				
44) 4-Bromofluorobenzene(S)	20.14	95	137118	26.24636	ppb		0.00
Spiked Amount 26.339			Recovery = 99.649%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	4.11	85	77894	10.90636	ppb		95
3) Chloromethane	4.59	50	70017	8.65426	ppb		98
4) Vinyl chloride	4.87	62	18128	8.95953	ppb		96
5) Bromomethane	5.76	94	10973	9.39937	ppb		80
6) Chloroethane	5.96	64	37342	11.04475	ppb		91
7) Trichlorofluoromethane	6.57	101	98152	10.77386	ppb		93
8) Acetone	7.31	43	4996	10.78466	ppb		94
9) 1,1-DCE	7.72	96	41296	10.28913	ppb		99
10) Methylene chloride	8.52	84	35510	8.85294	ppb		98
11) Carbon disulfide	8.60	76	36549	10.05818	ppb	#	93
12) Methyl t-butyl ether (MtBE	8.95	73	54782	9.37751	ppb		93
13) Trans-1,2-DCE	9.14	96	45922	10.40889	ppb		94
14) 1,1-DCA	9.83	63	88322	10.15183	ppb		96
15) MEK (2-Butanone)	10.48	43	15445	9.05816	ppb	#	92
16) Cis-1,2-DCE	10.85	96	45199	10.12743	ppb		96
17) 2,2-Dichloropropane	10.85	77	70763	9.30719	ppb		98
18) Chloroform	11.13	83	85914	9.84273	ppb		98
19) Bromochloromethane	11.36	128	11519	8.95998	ppb	#	77
21) 1,1,1-TCA	11.88	97	95695	10.20127	ppb		92
22) 1,1-Dichloropropene	12.15	75	70643	10.77844	ppb		93
24) Carbon Tetrachloride	12.34	117	84092	10.53485	ppb		94
25) 1,2-DCA	12.41	62	45703	9.62586	ppb		97
26) Benzene	12.54	78	153861	9.62269	ppb		99
27) TCE	13.57	95	52310	10.01472	ppb		99
28) 1,2-Dichloropropane	13.80	63	34772	9.37372	ppb		97
29) Bromodichloromethane	14.15	83	53276	9.65668	ppb	#	92
30) Dibromomethane	14.21	93	17495	9.75544	ppb		99
31) Cis-1,3-Dichloropropene	15.04	75	47661	9.11297	ppb		97
32) Toluene	15.67	92	96305	10.01791	ppb		85
33) Trans-1,3-Dichloropropene	15.83	75	38349	9.11169	ppb		96
34) 1,1,2-TCA	16.12	83	15248	9.52074	ppb		96
37) 1,2-EDB	17.36	107	17105	9.47051	ppb	#	92
38) Tetrachloroethene	16.83	164	30691	10.48475	ppb		97
39) 1-Chlorohexane	17.74	91	55518	10.85855	ppb		93
40) 1,1,1,2-Tetrachloroethane	18.19	131	34423	9.81445	ppb		97
41) m&p-Xylene	18.39	106	134992	20.54882	ppb		96
42) o-Xylene	19.13	106	61694	9.73066	ppb		92
43) Styrene	19.15	78	64398	9.49086	ppb		97
45) 2-Hexanone	16.13	43	7452	8.83900	ppb		90

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

Data File : M:\CHICO\DATA\C110502\0502C16W.D Vial: 1
Acq On : 3 May 11 1:35 Operator: RS
Sample : Vol Std 05-02-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 3 11:51 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,3-Dichloropropane	16.52	76	34437	9.39170	ppb		100
47)	Dibromochloromethane	17.01	129	25926	9.03246	ppb		94
48)	Chlorobenzene	18.14	112	86917	9.88692	ppb		97
49)	Ethylbenzene	18.24	91	207240	10.04500	ppb		92
50)	Bromoform	19.68	173	12890	9.44268	ppb		91
52)	MIBK (methyl isobutyl keto	14.69	43	11707	9.77315	ppb	#	77
53)	Isopropylbenzene	19.76	105	202644	10.65452	ppb		97
54)	1,1,2,2-Tetrachloroethane	19.93	83	15104	9.60082	ppb	#	89
55)	1,2,3-Trichloropropane	20.18	110	5392	10.61218	ppb		73
56)	Bromobenzene	20.51	156	31172	9.24747	ppb		95
57)	n-Propylbenzene	20.47	91	249143	10.82399	ppb		99
58)	2-Chlorotoluene	20.77	91	167691	10.37948	ppb		98
59)	1,3,5-Trimethylbenzene	20.74	105	159170	10.47283	ppb		95
60)	4-Chlorotoluene	20.85	91	144388	10.61703	ppb		91
61)	Tert-Butylbenzene	21.39	119	143468	10.57901	ppb		98
62)	1,2,4-Trimethylbenzene	21.45	105	161374	10.41824	ppb		94
63)	Sec-Butylbenzene	21.78	105	214222	10.90858	ppb		99
64)	p-Isopropyltoluene	22.02	119	151977	10.58412	ppb		98
65)	1,3-DCB	22.16	146	68500	10.17114	ppb		94
66)	1,4-DCB	22.33	146	64758	9.90850	ppb		96
67)	n-Butylbenzene	22.72	91	169549	11.07174	ppb		96
68)	1,2-DCB	22.95	146	54219	9.77250	ppb		98
69)	1,2-Dibromo-3-chloropropan	24.16	157	2447	8.62723	ppb	#	68
70)	1,2,4-Trichlorobenzene	25.61	180	14974	8.55002	ppb		98
71)	Hexachlorobutadiene	25.87	223	7856	9.00868	ppb		86
72)	Naphthalene	25.96	128	20000	9.13860	ppb		94
73)	1,2,3-Trichlorobenzene	26.32	180	30959	9.08020	ppb		90

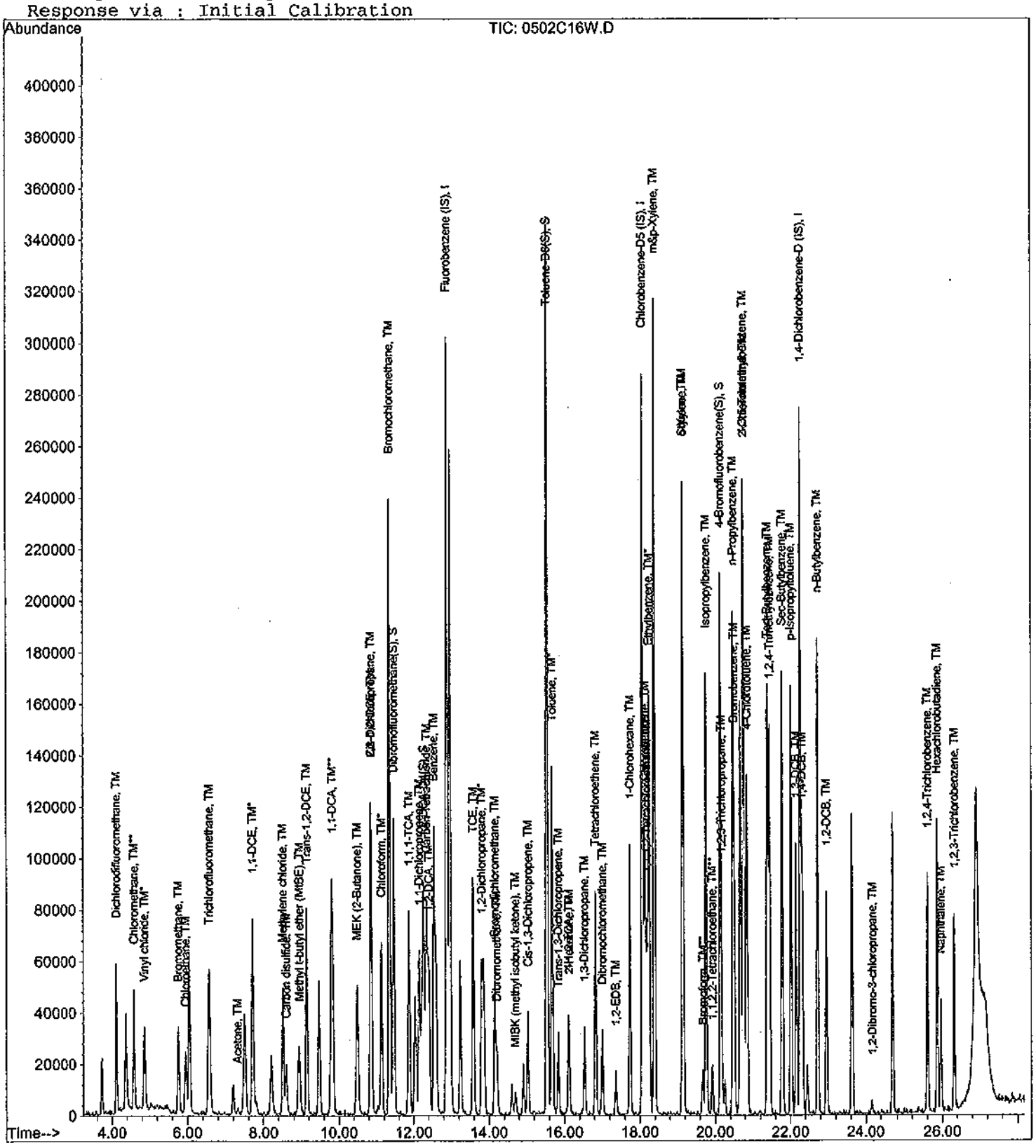
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C16W.D Vial: 1
Acq On : 3 May 11 1:35 Operator: RS
Sample : Vol Std 05-02-11@10ug/L Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 3 11:51 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

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

SDG No: 64544
Date Analyzed: 3 May 11 2:10
Instrument: Chico
Initial Cal. Date: 05/02/11
Data File: 0502C17W.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	1.300	1.357	4.4	TM	
3	TM**	Chloromethane	1.473	1.250	15	TM**	
4	TM*	Vinyl chloride	0.3683	0.3281	11	TM*	
5	TM	Bromomethane	0.2125	0.2158	1.5	TM	
6	TM	Chloroethane	0.6154	0.6555	6.5	TM	
7	TM	Trichlorofluoromethane	1.658	1.701	2.6	TM	
8	TML	Acetone	0.1150	0.0872	24	TML	2.5
9	TM*	1,1-DCE	0.7306	0.7240	0.90	TM*	
10	TM	Methylene chloride	0.7301	0.6325	13	TM	
11	TM	Carbon disulfide	0.6614	0.6513	1.5	TM	
12	TM	Methyl t-butyl ether (MtBE)	1.063	0.9950	6.4	TM	
13	TM	Trans-1,2-DCE	0.8031	0.8388	4.5	TM	
14	TM**	1,1-DCA	1.584	1.563	1.3	TM**	
15	TM	MEK (2-Butanone)	0.3104	0.2661	14	TM	
16	TM	Cis-1,2-DCE	0.8124	0.8009	1.4	TM	
17	TM	2,2-Dichloropropane	1.384	1.155	17	TM	
18	TM*	Chloroform	1.589	1.504	5.3	TM*	
19	TM	Bromochloromethane	0.2340	0.2284	2.4	TM	
20	S	Dibromofluoromethane(S)	0.7603	0.7845	3.2	S	
21	TM	1,1,1-TCA	1.708	1.632	4.4	TM	
22	TM	1,1-Dichloropropene	1.193	1.167	2.1	TM	
23	S	1,2-DCA-D4(S)	0.7409	0.7229	2.4	S	
24	TM	Carbon Tetrachloride	1.453	1.410	2.9	TM	
25	TM	1,2-DCA	0.8642	0.8011	7.3	TM	
26	TM	Benzene	2.910	2.798	3.9	TM	
27	TM	TCE	0.9508	0.9238	2.8	TM	
28	TM*	1,2-Dichloropropane	0.6752	0.6040	11	TM*	
29	TM	Bromodichloromethane	1.004	0.9405	6.3	TM	
30	TM	Dibromomethane	0.3264	0.3199	2.0	TM	
31	TM	Cis-1,3-Dichloropropene	0.9520	0.9130	4.1	TM	
32	TM*	Toluene	1.750	1.749	0.03	TM*	
33	TM	Trans-1,3-Dichloropropene	0.7661	0.6528	15	TM	
34	TM	1,1,2-TCA	0.2915	0.2601	11	TM	
35	I	Chlorobenzene-D5 (IS)	ISTD			I	
36	S	Toluene-D8(S)	4.150	4.531	9.2	S	
37	TM	1,2-EDB	0.5694	0.5622	1.3	TM	
38	TM	Tetrachloroethene	0.9228	0.9417	2.1	TM	
39	TM	1-Chlorohexane	1.612	1.745	8.3	TM	
40	TM	1,1,1,2-Tetrachloroethane	1.106	1.093	1.1	TM	
		Average			6.1		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No:
Matrix: 0

SDG No: 64544
Date Analyzed: 3 May 11 2:10
Instrument: Chico
Cal. Date: 05/02/11
Data File: 0502C17W.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	m&p-Xylene	2.071	2.090	0.94	TM	
42	TM	o-Xylene	1.999	2.074	3.8	TM	
43	TM	Styrene	2.139	2.018	5.6	TM	
44	S	4-Bromofluorobenzene(S)	1.647	1.722	4.6	S	
45	TM	2-Hexanone	0.2658	0.2305	13	TM	
46	TM	1,3-Dichloropropane	1.156	1.090	5.7	TM	
47	TM	Dibromochloromethane	0.9048	0.8434	6.8	TM	
48	TM**	Chlorobenzene	2.771	2.722	1.8	TM**	
49	TM*	Ethylbenzene	6.504	6.501	0.04	TM*	
50	TM**	Bromoform	0.4303	0.3814	11	TM**	
51	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
52	TM	MIBK (methyl isobutyl ketone)	0.7083	0.7137	0.76	TM	
53	TM	Isopropylbenzene	11.2	12.0	6.5	TM	
54	TM**	1,1,2,2-Tetrachloroethane	0.9302	0.8691	6.6	TM**	
55	TM	1,2,3-Trichloropropane	0.3004	0.3129	4.1	TM	
56	TM	Bromobenzene	1.993	1.970	1.1	TM	
57	TM	n-Propylbenzene	13.6	14.7	7.9	TM	
58	TM	2-Chlorotoluene	9.553	9.890	3.5	TM	
59	TM	1,3,5-Trimethylbenzene	8.987	9.754	8.5	TM	
60	TM	4-Chlorotoluene	8.041	8.564	6.5	TM	
61	TM	Tert-Butylbenzene	8.019	8.629	7.6	TM	
62	TM	1,2,4-Trimethylbenzene	9.159	9.640	5.3	TM	
63	TM	Sec-Butylbenzene	11.6	12.7	9.2	TM	
64	TM	p-Isopropyltoluene	8.490	9.154	7.8	TM	
65	TM	1,3-DCB	3.982	4.172	4.8	TM	
66	TM	1,4-DCB	3.864	3.875	0.28	TM	
67	TM	n-Butylbenzene	9.055	9.857	8.9	TM	
68	TM	1,2-DCB	3.281	3.374	2.9	TM	
69	TML	1,2-Dibromo-3-chloropropane	0.1760	0.1569	11	TML	8.0
70	TM	1,2,4-Trichlorobenzene	1.036	0.9123	12	TM	
71	TM	Hexachlorobutadiene	0.5156	0.5541	7.5	TM	
72	TM	Naphthalene	1.294	1.192	7.9	TM	
73	TM	1,2,3-Trichlorobenzene	2.016	1.890	6.2	TM	
74							
75							
76							
77							
78							
79							
80							
		Average			5.9		

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C17W.D Vial: 1
Acq On : 3 May 11 2:10 Operator: RS
Sample : 110502A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:12 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.88	96	148352	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.07	117	83328	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	43664	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.46	111	116380	25.79464 ppb		0.00
Spiked Amount 23.521			Recovery = 109.670%			
23) 1,2-DCA-D4(S)	12.27	65	107242	24.39175 ppb		0.00
Spiked Amount 22.321			Recovery = 109.280%			
36) Toluene-D8(S)	15.54	98	377549	27.29723 ppb		0.00
Spiked Amount 26.002			Recovery = 104.981%			
44) 4-Bromofluorobenzene(S)	20.15	95	143532	26.14734 ppb		0.00
Spiked Amount 26.339			Recovery = 99.273%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	80524	10.43801 ppb		98
3) Chloromethane	4.59	50	74158	8.48595 ppb		97
4) Vinyl chloride	4.86	62	19472	8.90968 ppb		97
5) Bromomethane	5.77	94	12804	10.15396 ppb		93
6) Chloroethane	5.96	64	38898	10.65128 ppb		96
7) Trichlorofluoromethane	6.56	101	100938	10.25754 ppb		97
8) Acetone	7.32	43	5175	10.25012 ppb		86
9) 1,1-DCE	7.73	96	42964	9.91041 ppb		98
10) Methylene chloride	8.52	84	37533	8.66297 ppb		95
11) Carbon disulfide	8.61	76	38648	9.84662 ppb		96
12) Methyl t-butyl ether (MtBE	8.94	73	59047	9.35758 ppb		93
13) Trans-1,2-DCE	9.14	96	49775	10.44507 ppb		89
14) 1,1-DCA	9.83	63	92752	9.86995 ppb		97
15) MEK (2-Butanone)	10.48	43	15790	8.57335 ppb	#	92
16) Cis-1,2-DCE	10.85	96	47526	9.85866 ppb		97
17) 2,2-Dichloropropane	10.85	77	68541	8.34601 ppb		94
18) Chloroform	11.13	83	89258	9.46706 ppb		96
19) Bromochloromethane	11.35	128	13553	9.75987 ppb		85
21) 1,1,1-TCA	11.89	97	96851	9.55840 ppb		97
22) 1,1-Dichloropropene	12.15	75	69272	9.78500 ppb		95
24) Carbon Tetrachloride	12.34	117	83683	9.70570 ppb		86
25) 1,2-DCA	12.42	62	47537	9.26921 ppb		100
26) Benzene	12.53	78	166058	9.61489 ppb		96
27) TCE	13.58	95	54822	9.71684 ppb		90
28) 1,2-Dichloropropane	13.80	63	35839	8.94447 ppb		97
29) Bromodichloromethane	14.16	83	55812	9.36569 ppb	#	95
30) Dibromomethane	14.21	93	18983	9.79973 ppb		94
31) Cis-1,3-Dichloropropene	15.04	75	54178	9.59039 ppb		99
32) Toluene	15.68	92	103811	9.99742 ppb		99
33) Trans-1,3-Dichloropropene	15.83	75	38735	8.52049 ppb		89
34) 1,1,2-TCA	16.11	83	15435	8.92238 ppb		81
37) 1,2-EDB	17.36	107	18740	9.87470 ppb	#	91
38) Tetrachloroethene	16.82	164	31388	10.20505 ppb		98
39) 1-Chlorohexane	17.74	91	58162	10.82633 ppb		91
40) 1,1,1,2-Tetrachloroethane	18.19	131	36432	9.88563 ppb		90
41) m&p-Xylene	18.40	106	139349	20.18770 ppb		98
42) o-Xylene	19.13	106	69129	10.37680 ppb		81
43) Styrene	19.15	78	67278	9.43649 ppb		88
45) 2-Hexanone	16.13	43	7683	8.67291 ppb		92

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

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C17W.D Vial: 1
Acq On : 3 May 11 2:10 Operator: RS
Sample : 110502A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:12 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) 1,3-Dichloropropane	16.53	76	36339	9.43183 ppb	92
47) Dibromochloromethane	17.00	129	28112	9.32108 ppb	99
48) Chlorobenzene	18.13	112	90717	9.82085 ppb	95
49) Ethylbenzene	18.25	91	216693	9.99598 ppb	100
50) Bromoform	19.67	173	12711	8.86189 ppb	91
52) MIBK (methyl isobutyl keto	14.71	43	12465	10.07611 ppb	91
53) Isopropylbenzene	19.77	105	209175	10.64930 ppb	99
54) 1,1,2,2-Tetrachloroethane	19.92	83	15179	9.34267 ppb	96
55) 1,2,3-Trichloropropane	20.19	110	5465	10.41493 ppb	82
56) Bromobenzene	20.50	156	34412	9.88506 ppb	94
57) n-Propylbenzene	20.48	91	256548	10.79242 ppb	99
58) 2-Chlorotoluene	20.77	91	172735	10.35280 ppb	97
59) 1,3,5-Trimethylbenzene	20.75	105	170360	10.85381 ppb	100
60) 4-Chlorotoluene	20.85	91	149583	10.65039 ppb	97
61) Tert-Butylbenzene	21.38	119	150714	10.76106 ppb	98
62) 1,2,4-Trimethylbenzene	21.44	105	168370	10.52536 ppb	95
63) Sec-Butylbenzene	21.78	105	221407	10.91710 ppb	95
64) p-Isopropyltoluene	22.02	119	159888	10.78212 ppb	96
65) 1,3-DCB	22.16	146	72861	10.47577 ppb	92
66) 1,4-DCB	22.32	146	67682	10.02765 ppb	95
67) n-Butylbenzene	22.73	91	172162	10.88602 ppb	99
68) 1,2-DCB	22.95	146	58937	10.28616 ppb	97
69) 1,2-Dibromo-3-chloropropan	24.17	157	2740	9.20073 ppb	88
70) 1,2,4-Trichlorobenzene	25.61	180	15934	8.80979 ppb	96
71) Hexachlorobutadiene	25.86	223	9678	10.74624 ppb	96
72) Naphthalene	25.96	128	20816	9.20998 ppb	97
73) 1,2,3-Trichlorobenzene	26.32	180	33011	9.37516 ppb	97

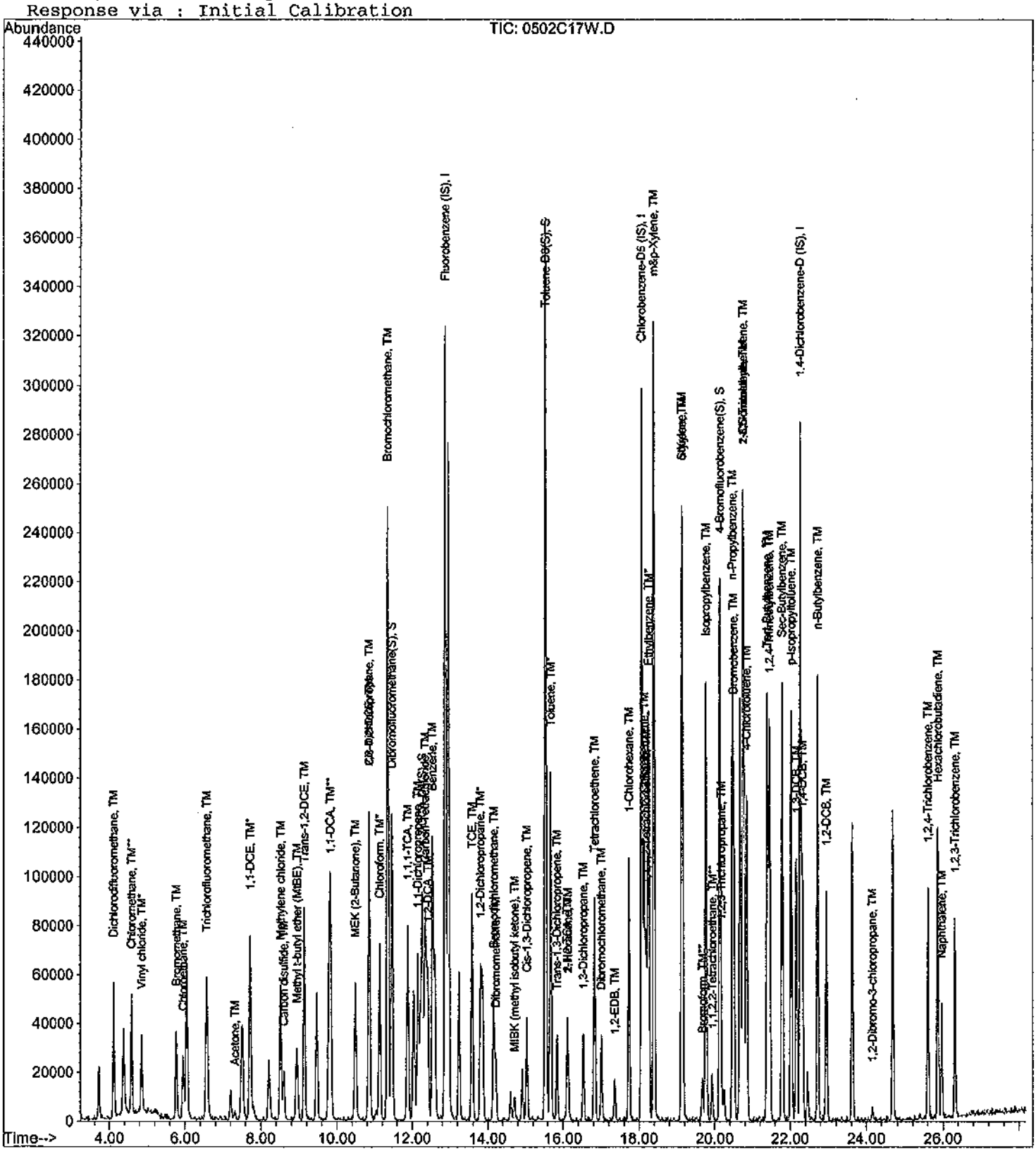
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C17W.D Vial: 1
Acq On : 3 May 11 2:10 Operator: RS
Sample : 110502A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:12 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



EPA METHOD 8260B
Volatile Organic Compounds
Raw Data

Method Blank

EPA 8260B VOCs + Gas Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110502W-36735 - 154887**
Batch ID: #86RHB-110502AC

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	05/03/11	05/03/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	05/03/11	05/03/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	05/03/11	05/03/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	05/03/11	05/03/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	05/03/11	05/03/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	05/03/11	05/03/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	05/03/11	05/03/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	05/03/11	05/03/11
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	05/03/11	05/03/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	05/03/11	05/03/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	05/03/11	05/03/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	05/03/11	05/03/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	05/03/11	05/03/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	05/03/11	05/03/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	05/03/11	05/03/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	05/03/11	05/03/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	05/03/11	05/03/11
BLANK	CHLOROMETHANE	0.62 U	1.0	0.62	0.31	ug/L	05/03/11	05/03/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	05/03/11	05/03/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	05/03/11	05/03/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	METHYL TERT-BUTYL ETHER	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11

Quant Method:C86DODW.M
Run #:0502C20
Instrument:Chico
Sequence:C110502
Initials:DG

GC SC-Blank-REG MDLs
Printed: 05/16/11 8:38:13 PM

Method Blank

EPA 8260B VOCs + Gas Water

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **110502W-36735 - 154887**
Batch ID: #86RHB-110502AC

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	05/03/11	05/03/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	05/03/11	05/03/11
BLANK	TETRACHLOROETHENE	0.30 U	1.0	0.30	0.15	ug/L	05/03/11	05/03/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	05/03/11	05/03/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	05/03/11	05/03/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	05/03/11	05/03/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	05/03/11	05/03/11
BLANK	SURROGATE: 1,2-DICHLOROET	110	70-120			%	05/03/11	05/03/11
BLANK	SURROGATE: 4-BROMOFLUORO	96.1	75-120			%	05/03/11	05/03/11
BLANK	SURROGATE: DIBROMOFLUOR	109	85-115			%	05/03/11	05/03/11
BLANK	SURROGATE: TOLUENE-D8 (S)	107	85-120			%	05/03/11	05/03/11

Quant Method:C86DODW.M
Run #:0502C20
Instrument:Chico
Sequence:C110502
Initials:DG

GC SC-Blank-REG MDLs
Printed: 05/16/11 8:38:14 PM

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C20W.D Vial: 1
Acq On : 3 May 11 5:05 Operator: RS
Sample : 110502A BLK-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 7 16:23 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.88	96	140352	25.00000 ppb	-0.01
35) Chlorobenzene-D5 (IS)	18.07	117	77648	25.00000 ppb	-0.01
51) 1,4-Dichlorobenzene-D (IS)	22.26	152	39256	25.00000 ppb	-0.01
System Monitoring Compounds					
20) Dibromofluoromethane(S)	11.46	111	109224	25.58845 ppb	-0.01
Spiked Amount 23.521			Recovery = 108.790%		
23) 1,2-DCA-D4(S)	12.27	65	102005	24.52304 ppb	0.00
Spiked Amount 22.321			Recovery = 109.867%		
36) Toluene-D8(S)	15.54	98	357192	27.71454 ppb	0.00
Spiked Amount 26.002			Recovery = 106.589%		
44) 4-Bromofluorobenzene(S)	20.14	95	129538	25.32425 ppb	0.00
Spiked Amount 26.339			Recovery = 96.148%		

Target Compounds Qvalue

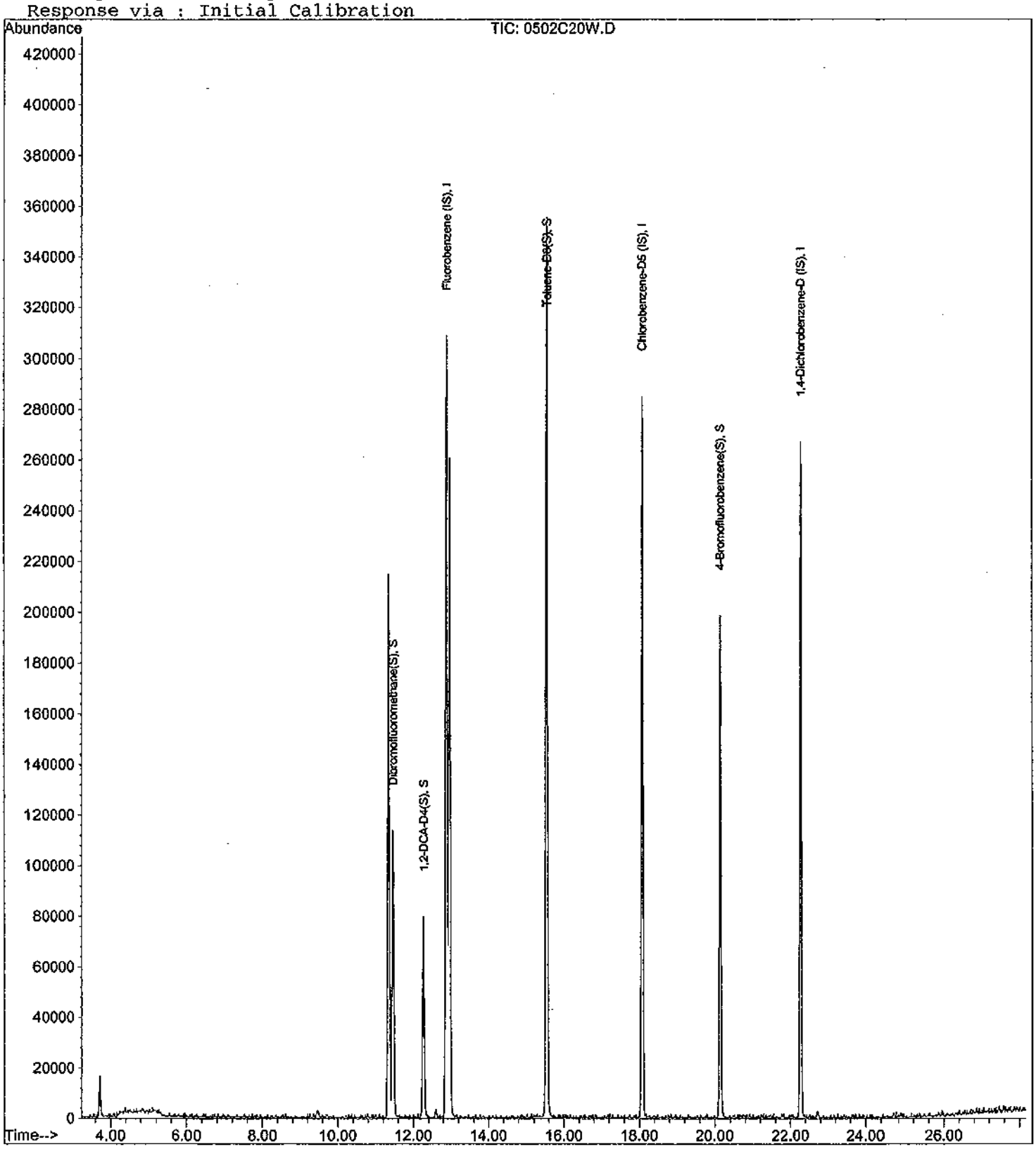
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C20W.D Vial: 1
Acq On : 3 May 11 5:05 Operator: RS
Sample : 110502A BLK-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 7 16:23 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C20W.D Vial: 1
Acq On : 3 May 11 5:05 Operator: RS
Sample : 110502A BLK-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 16 20:30 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	12.88	TIC	308651	25.00000 ppb	-0.02
4) Chlorobenzene-D5 (IS)	18.07	TIC	284779	25.00000 ppb	-0.03
7) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	266959	25.00000 ppb	-0.02
System Monitoring Compounds					
3) Dibromofluoromethane(S)	11.46	TIC	353148	20.60823 ppb	-0.02
Spiked Amount 23.521			Recovery = 87.615%		
5) Toluene-D8(S)	15.54	TIC	1044742	29.01141 ppb	-0.02
Spiked Amount 26.002			Recovery = 111.572%		
6) 4-Bromofluorobenzene(S)	20.14	TIC	554602	23.15050 ppb	-0.03
Spiked Amount 26.339			Recovery = 87.896%		

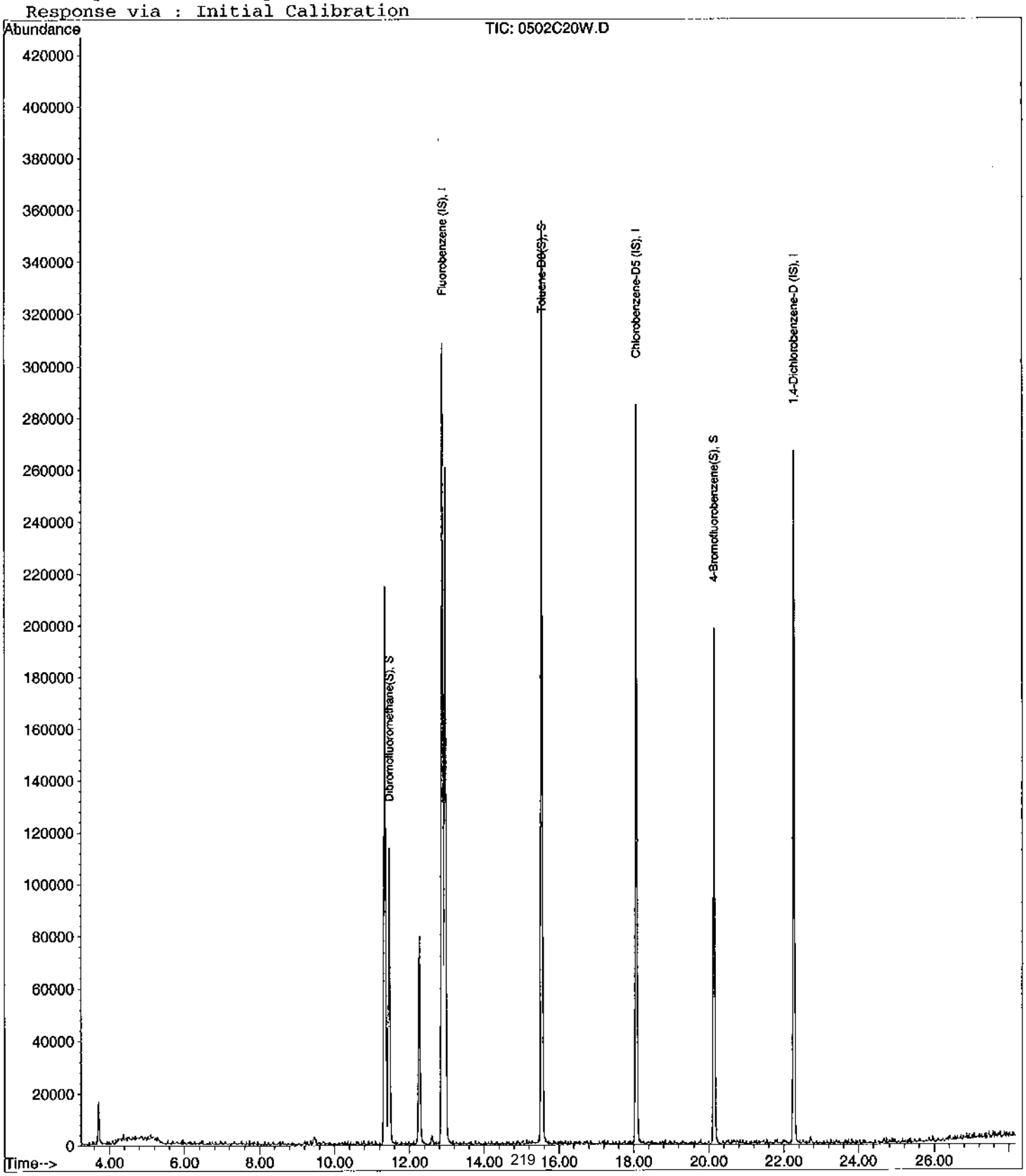
Target Compounds Qvalue

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C20W.D Vial: 1
Acq On : 3 May 11 5:05 Operator: RS
Sample : 110502A BLK-1WC Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 16 20:30 2011 Quant Results File: GAS.RES

Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: **110503W-36735 LCS - 154887**
Batch ID: #86RHB-110502AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	9.89	98.9	80-130
1,1,1-TRICHLOROETHANE	10.00	9.56	95.6	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	9.34	93.4	65-130
1,1,2-TRICHLOROETHANE	10.00	8.92	89.2	75-125
1,1-DICHLOROETHANE	10.00	9.87	98.7	70-135
1,1-DICHLOROETHENE	10.00	9.91	99.1	70-130
1,2,3-TRICHLOROPROPANE	10.00	10.4	104	75-125
1,2,4-TRICHLOROBENZENE	10.00	8.81	88.1	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	9.20	92.0	50-130
1,2-DIBROMOETHANE	10.00	9.87	98.7	70-130
1,2-DICHLOROBENZENE	10.00	10.3	103	70-120
1,2-DICHLOROETHANE	10.00	9.27	92.7	70-130
1,2-DICHLOROPROPANE	10.00	8.94	89.4	75-125
1,3-DICHLOROBENZENE	10.00	10.5	105	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	18.1	90.5	70-130
1,4-DICHLOROBENZENE	10.00	10.0	100	75-125
2-BUTANONE	10.00	8.57	85.7	30-150
4-METHYL-2-PENTANONE	10.00	10.1	101	60-135
ACETONE	10.00	10.3	103	40-140
BENZENE	10.00	9.61	96.1	80-120
BROMODICHLOROMETHANE	10.00	9.37	93.7	75-120
BROMOFORM	10.00	8.86	88.6	70-130
BROMOMETHANE	10.00	10.2	102	30-145
CARBON TETRACHLORIDE	10.00	9.71	97.1	65-140
CHLOROBENZENE	10.00	9.82	98.2	80-120
CHLORODIBROMOMETHANE	10.00	9.32	93.2	60-135

Comments: _____

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	05/03/11
Analysis Date :	05/03/11
Instrument :	Chico
Run :	0502C17
Initials :	DG

Printed: 05/16/11 8:38:15 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: **110503W-36735 LCS - 154887**
Batch ID: #86RHB-110502AC

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	9.47	94.7	65-135
CHLOROMETHANE	10.00	8.49	84.9	40-125
CIS-1,2-DICHLOROETHENE	10.00	9.86	98.6	70-125
ETHYLBENZENE	10.00	10.0	100	75-125
GASOLINE	300	317	106	75-125
HEXACHLOROBUTADIENE	10.00	10.7	107	50-140
METHYL TERT-BUTYL ETHER	10.00	9.36	93.6	65-125
METHYLENE CHLORIDE	10.00	8.66	86.6	55-140
STYRENE	10.00	9.44	94.4	65-135
TETRACHLOROETHENE	10.00	10.2	102	45-150
TOLUENE	10.00	10.0	100	75-120
TRANS-1,2-DICHLOROETHENE	10.00	10.4	104	60-140
TRICHLOROETHENE	10.00	9.72	97.2	70-125
VINYL CHLORIDE	10.00	8.91	89.1	50-145
XYLENES (TOTAL)	30.0	30.6	102	80-120
SURROGATE: 1,2-DICHLOROETHANE-D	22.3	24.4	109	70-120
SURROGATE: 4-BROMOFLUOROBENZE	26.3	26.1	99.1	75-120
SURROGATE: DIBROMOFLUOROMETH	23.5	25.8	110	85-115
SURROGATE: TOLUENE-D8 (S)	26.0	27.3	105	85-120

Comments: _____

Primary	SPK
Quant Method :	C86DODW.M
Extraction Date :	05/03/11
Analysis Date :	05/03/11
Instrument :	Chico
Run :	0502C17
Initials :	DG

Printed: 05/16/11 8:38:15 PM

APPL Standard LCS

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C17W.D Vial: 1
Acq On : 3 May 11 2:10 Operator: RS
Sample : 110502A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:12 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	12.88	96	148352	25.00000 ppb		0.00
35) Chlorobenzene-D5 (IS)	18.07	117	83328	25.00000 ppb		0.00
51) 1,4-Dichlorobenzene-D (IS)	22.27	152	43664	25.00000 ppb		0.00
System Monitoring Compounds						
20) Dibromofluoromethane(S)	11.46	111	116380	25.79464 ppb		0.00
Spiked Amount 23.521			Recovery = 109.670%			
23) 1,2-DCA-D4(S)	12.27	65	107242	24.39175 ppb		0.00
Spiked Amount 22.321			Recovery = 109.280%			
36) Toluene-D8(S)	15.54	98	377549	27.29723 ppb		0.00
Spiked Amount 26.002			Recovery = 104.981%			
44) 4-Bromofluorobenzene(S)	20.15	95	143532	26.14734 ppb		0.00
Spiked Amount 26.339			Recovery = 99.273%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.12	85	80524	10.43801 ppb		98
3) Chloromethane	4.59	50	74158	8.48595 ppb		97
4) Vinyl chloride	4.86	62	19472	8.90968 ppb		97
5) Bromomethane	5.77	94	12804	10.15396 ppb		93
6) Chloroethane	5.96	64	38898	10.65128 ppb		96
7) Trichlorofluoromethane	6.56	101	100938	10.25754 ppb		97
8) Acetone	7.32	43	5175	10.25012 ppb		86
9) 1,1-DCE	7.73	96	42964	9.91041 ppb		98
10) Methylene chloride	8.52	84	37533	8.66297 ppb		95
11) Carbon disulfide	8.61	76	38648	9.84662 ppb		96
12) Methyl t-butyl ether (MtBE	8.94	73	59047	9.35758 ppb		93
13) Trans-1,2-DCE	9.14	96	49775	10.44507 ppb		89
14) 1,1-DCA	9.83	63	92752	9.86995 ppb		97
15) MEK (2-Butanone)	10.48	43	15790	8.57335 ppb	#	92
16) Cis-1,2-DCE	10.85	96	47526	9.85866 ppb		97
17) 2,2-Dichloropropane	10.85	77	68541	8.34601 ppb		94
18) Chloroform	11.13	83	89258	9.46706 ppb		96
19) Bromochloromethane	11.35	128	13553	9.75987 ppb		85
21) 1,1,1-TCA	11.89	97	96851	9.55840 ppb		97
22) 1,1-Dichloropropene	12.15	75	69272	9.78500 ppb		95
24) Carbon Tetrachloride	12.34	117	83683	9.70570 ppb		86
25) 1,2-DCA	12.42	62	47537	9.26921 ppb		100
26) Benzene	12.53	78	166058	9.61489 ppb		96
27) TCE	13.58	95	54822	9.71684 ppb		90
28) 1,2-Dichloropropane	13.80	63	35839	8.94447 ppb		97
29) Bromodichloromethane	14.16	83	55812	9.36569 ppb	#	95
30) Dibromomethane	14.21	93	18983	9.79973 ppb		94
31) Cis-1,3-Dichloropropene	15.04	75	54178	9.59039 ppb		99
32) Toluene	15.68	92	103811	9.99742 ppb		99
33) Trans-1,3-Dichloropropene	15.83	75	38735	8.52049 ppb		89
34) 1,1,2-TCA	16.11	83	15435	8.92238 ppb		81
37) 1,2-EDB	17.36	107	18740	9.87470 ppb	#	91
38) Tetrachloroethene	16.82	164	31388	10.20505 ppb		98
39) 1-Chlorohexane	17.74	91	58162	10.82633 ppb		91
40) 1,1,1,2-Tetrachloroethane	18.19	131	36432	9.88563 ppb		90
41) m&p-Xylene	18.40	106	139349	20.18770 ppb		98
42) o-Xylene	19.13	106	69129	10.37680 ppb		81
43) Styrene	19.15	78	67278	9.43649 ppb		88
45) 2-Hexanone	16.13	43	7683	8.67291 ppb		92

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

Data File : M:\CHICO\DATA\C110502\0502C17W.D Vial: 1
Acq On : 3 May 11 2:10 Operator: RS
Sample : 110502A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:12 2011 Quant Results File: C86DODW.RES

Quant Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46) 1,3-Dichloropropane	16.53	76	36339	9.43183 ppb	92
47) Dibromochloromethane	17.00	129	28112	9.32108 ppb	99
48) Chlorobenzene	18.13	112	90717	9.82085 ppb	95
49) Ethylbenzene	18.25	91	216693	9.99598 ppb	100
50) Bromoform	19.67	173	12711	8.86189 ppb	91
52) MIBK (methyl isobutyl keto	14.71	43	12465	10.07611 ppb	91
53) Isopropylbenzene	19.77	105	209175	10.64930 ppb	99
54) 1,1,2,2-Tetrachloroethane	19.92	83	15179	9.34267 ppb	96
55) 1,2,3-Trichloropropane	20.19	110	5465	10.41493 ppb	82
56) Bromobenzene	20.50	156	34412	9.88506 ppb	94
57) n-Propylbenzene	20.48	91	256548	10.79242 ppb	99
58) 2-Chlorotoluene	20.77	91	172735	10.35280 ppb	97
59) 1,3,5-Trimethylbenzene	20.75	105	170360	10.85381 ppb	100
60) 4-Chlorotoluene	20.85	91	149583	10.65039 ppb	97
61) Tert-Butylbenzene	21.38	119	150714	10.76106 ppb	98
62) 1,2,4-Trimethylbenzene	21.44	105	168370	10.52536 ppb	95
63) Sec-Butylbenzene	21.78	105	221407	10.91710 ppb	95
64) p-Isopropyltoluene	22.02	119	159888	10.78212 ppb	96
65) 1,3-DCB	22.16	146	72861	10.47577 ppb	92
66) 1,4-DCB	22.32	146	67682	10.02765 ppb	95
67) n-Butylbenzene	22.73	91	172162	10.88602 ppb	99
68) 1,2-DCB	22.95	146	58937	10.28616 ppb	97
69) 1,2-Dibromo-3-chloropropan	24.17	157	2740	9.20073 ppb	88
70) 1,2,4-Trichlorobenzene	25.61	180	15934	8.80979 ppb	96
71) Hexachlorobutadiene	25.86	223	9678	10.74624 ppb	96
72) Naphthalene	25.96	128	20816	9.20998 ppb	97
73) 1,2,3-Trichlorobenzene	26.32	180	33011	9.37516 ppb	97

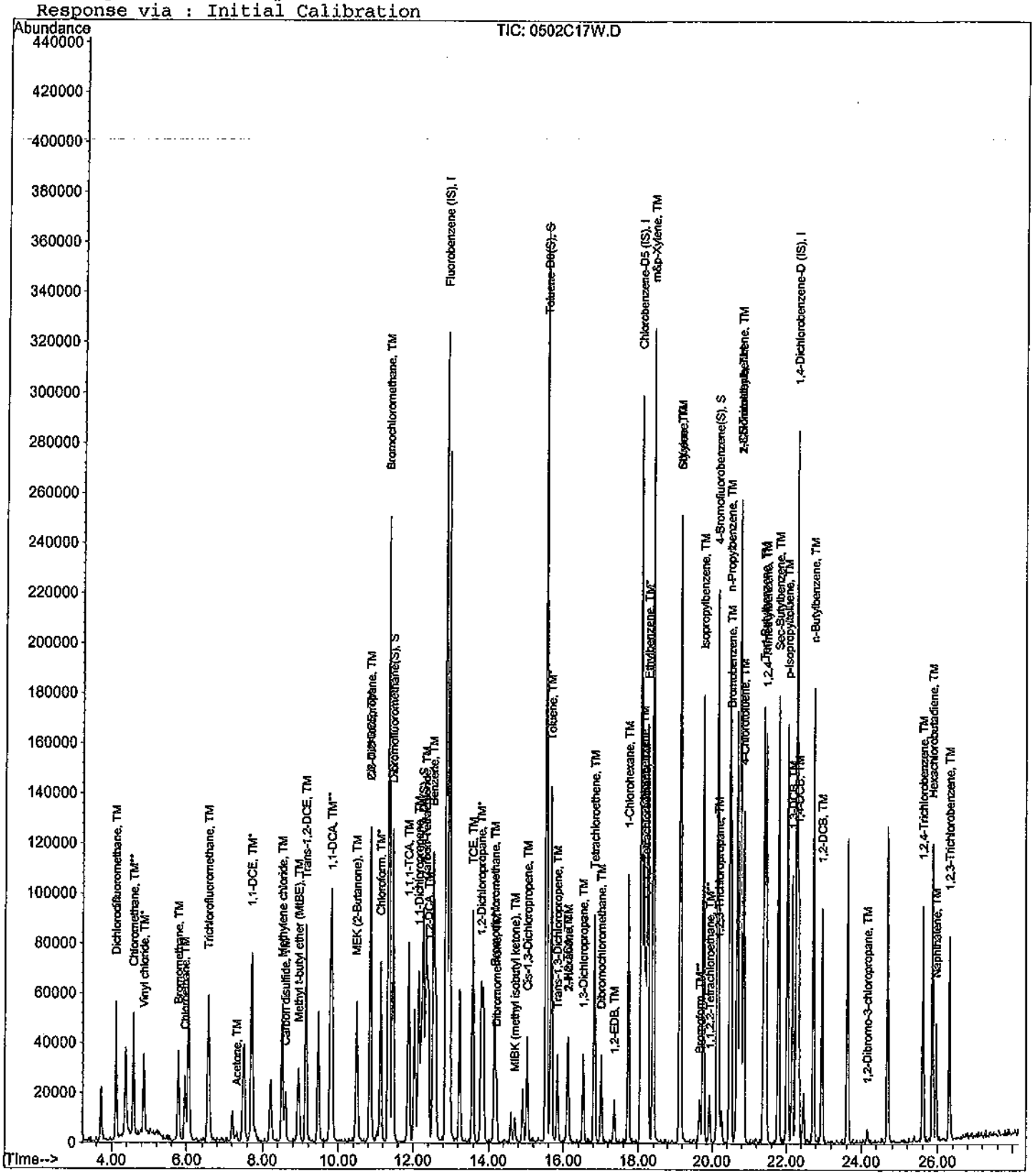
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C17W.D Vial: 1
Acq On : 3 May 11 2:10 Operator: RS
Sample : 110502A LCS-1WC (SS) Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 3 9:12 2011 Quant Results File: C86DODW.RES

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue May 03 09:12:03 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C110502\0502C15W.D Vial: 1
Acq On : 3 May 11 1:00 Operator: RS
Sample : GAS Std 05-02-11@300ug/L Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 16 20:29 2011 Quant Results File: GAS.RES

Quant Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration
DataAcq Meth : PC8260-1

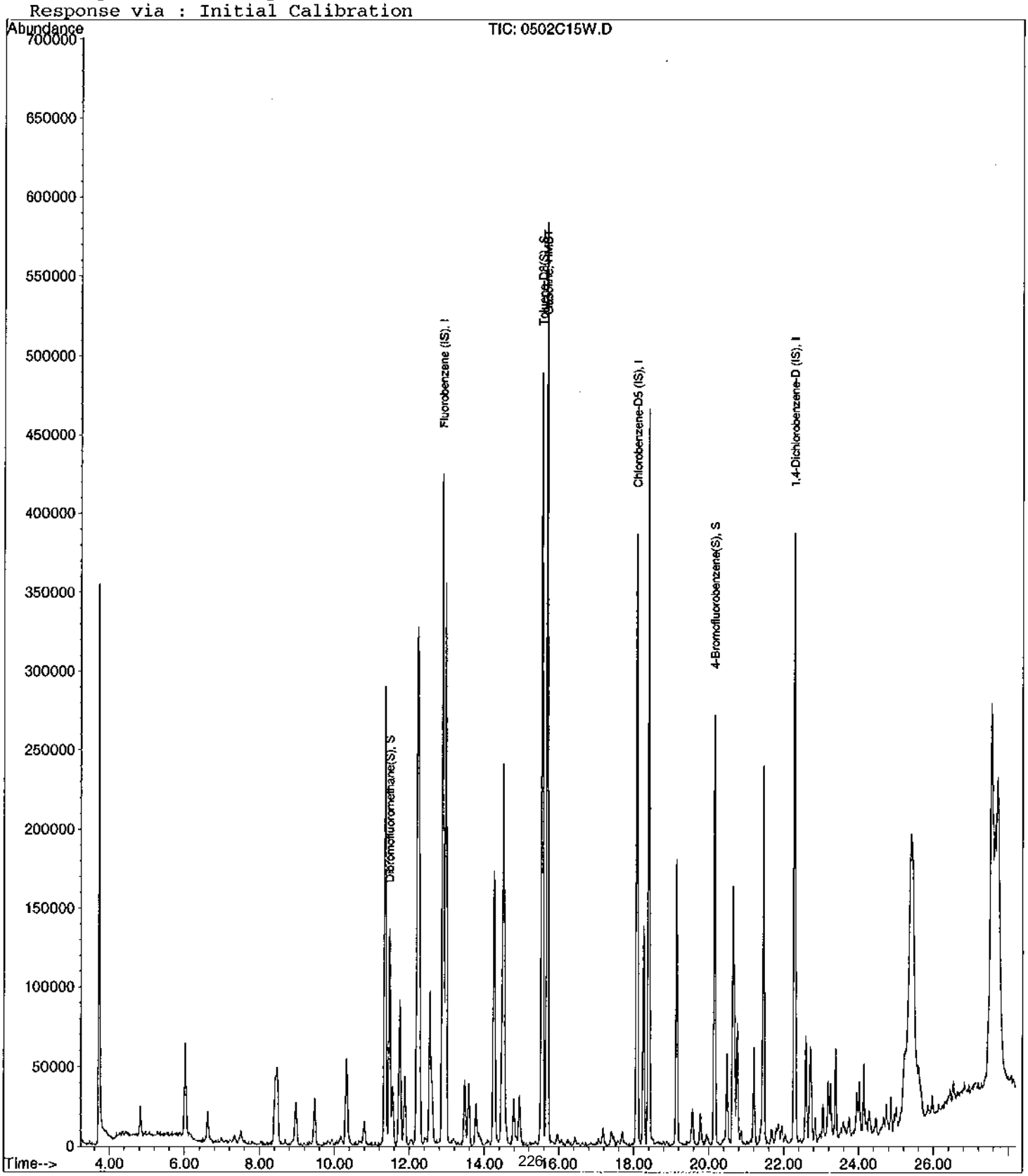
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.89	TIC	423283	25.00000	ppb	-0.01
4) Chlorobenzene-D5 (IS)	18.09	TIC	386316	25.00000	ppb	-0.01
7) 1,4-Dichlorobenzene-D (IS)	22.29	TIC	385131	25.00000	ppb	0.00
System Monitoring Compounds						
3) Dibromofluoromethane(S)	11.47	TIC	432273	18.39411	ppb	-0.01
Spiked Amount 23.521			Recovery =	78.202%		
5) Toluene-D8(S)	15.55	TIC	1481589	30.32863	ppb	-0.01
Spiked Amount 26.002			Recovery =	116.641%		
6) 4-Bromofluorobenzene(S)	20.16	TIC	757680	23.31471	ppb	-0.01
Spiked Amount 26.339			Recovery =	88.519%		
Target Compounds						Qvalue
2) Gasoline	15.68	TIC	18799291m	317.08900	ppb	100

Quantitation Report

Data File : M:\CHICO\DATA\C110502\0502C15W.D Vial: 1
Acq On : 3 May 11 1:00 Operator: RS
Sample : GAS Std 05-02-11@300ug/L Inst : Chico
Misc : Water 10ml w/IS&S: 05-02-11 Multiplr: 1.00

Quant Time: May 16 20:29 2011 Quant Results File: GAS.RES

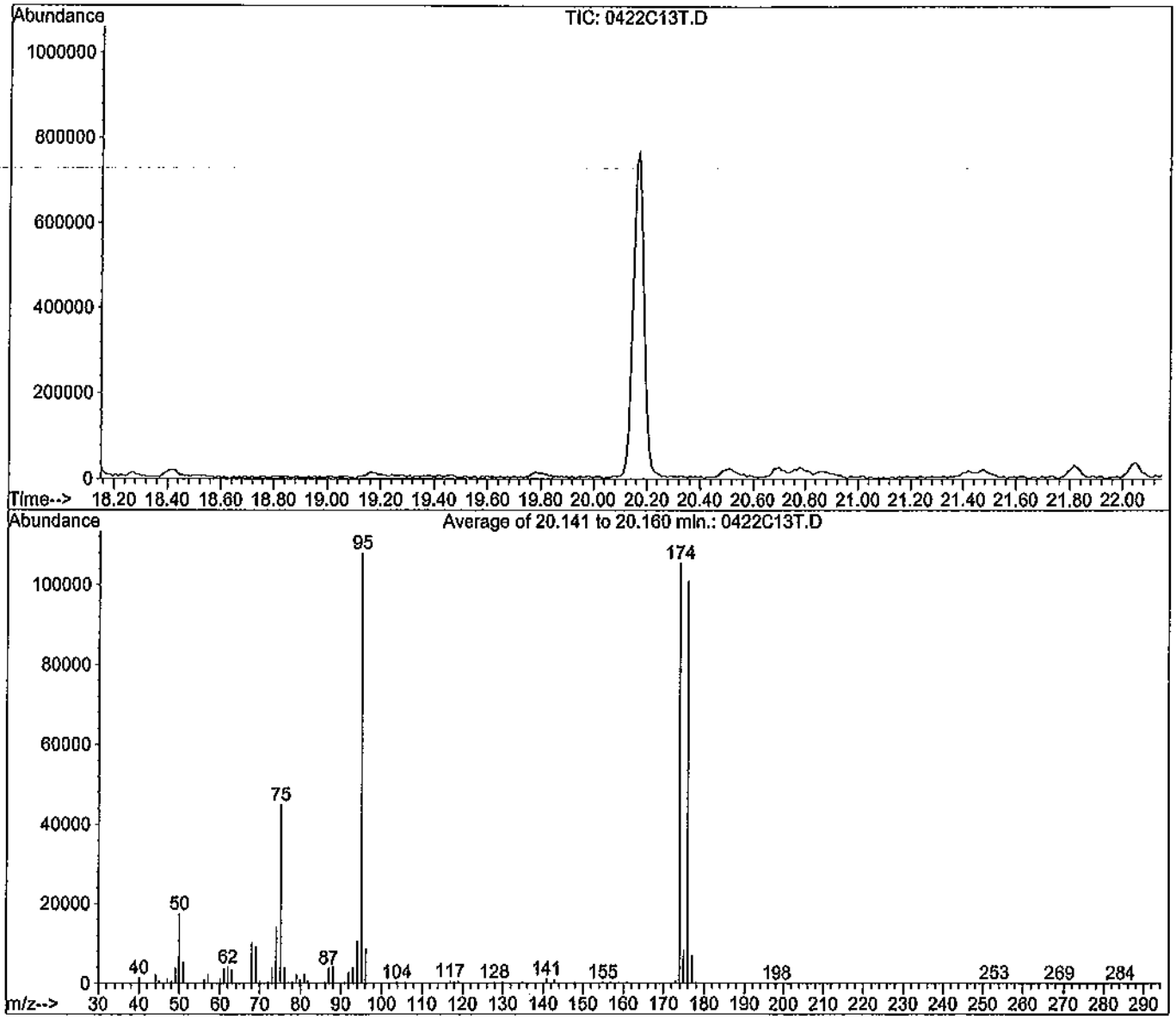
Method : M:\CHICO\DATA\C110422\GAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Mon May 16 19:45:38 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C110422\0422C13T.D
Acq On : 22 Apr 11 23:53
Sample : 20ug/ml BFB STD 04-15-11A
Misc : 2ul

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

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B

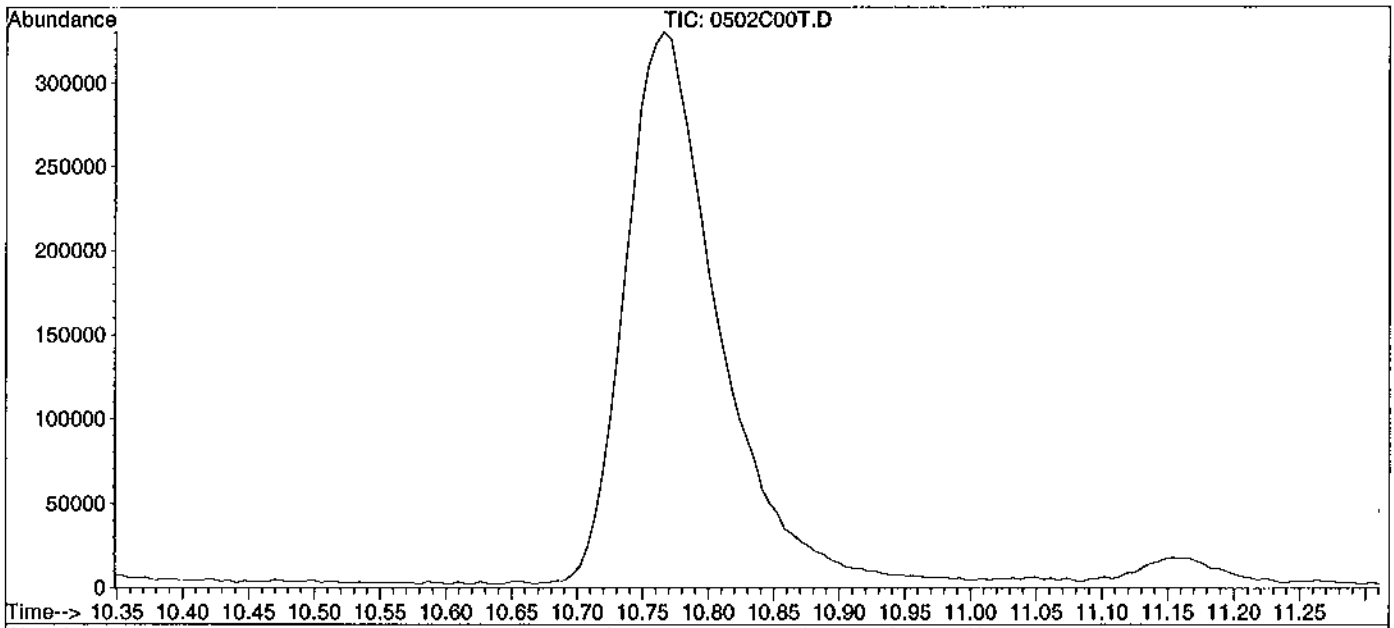


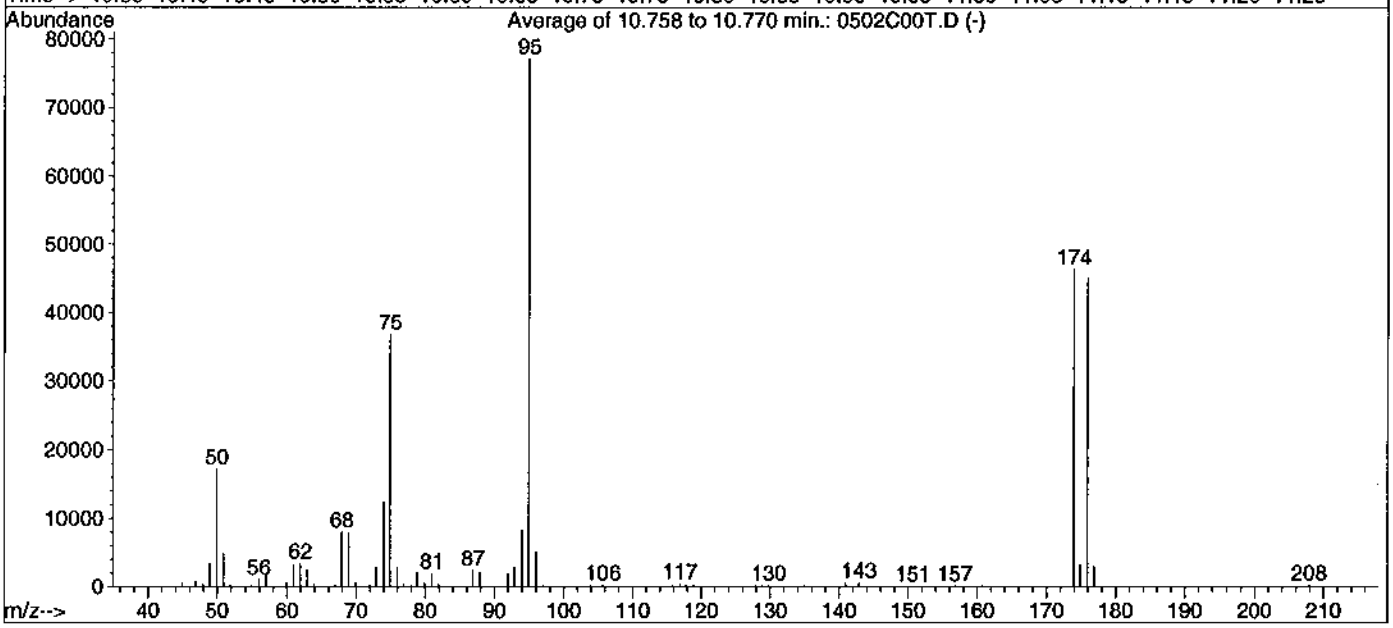
Spectrum Information: Average of 20.141 to 20.160 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	17487	PASS
75	95	30	60	41.6	44917	PASS
95	95	100	100	100.0	107933	PASS
96	95	5	9	8.0	8634	PASS
173	174	0.00	2	0.5	483	PASS
174	95	50	100	97.7	105496	PASS
175	174	5	9	7.8	8183	PASS
176	174	95	101	95.8	101021	PASS
177	176	5	9	6.9	6934	PASS

Data File : M:\CHICO\DATA\C110502\0502C00T.D Vial: 1
Acq On : 2 May 11 14:08 Operator: RS
Sample : 20ug/ml BFB STD 04-15-11A Inst : Chico
Misc : 2uL Multiplr: 1.00

Method : M:\CHICO\DATA\C110422\C86DODW.M (RTE Integrator)
Title : METHOD 8260B



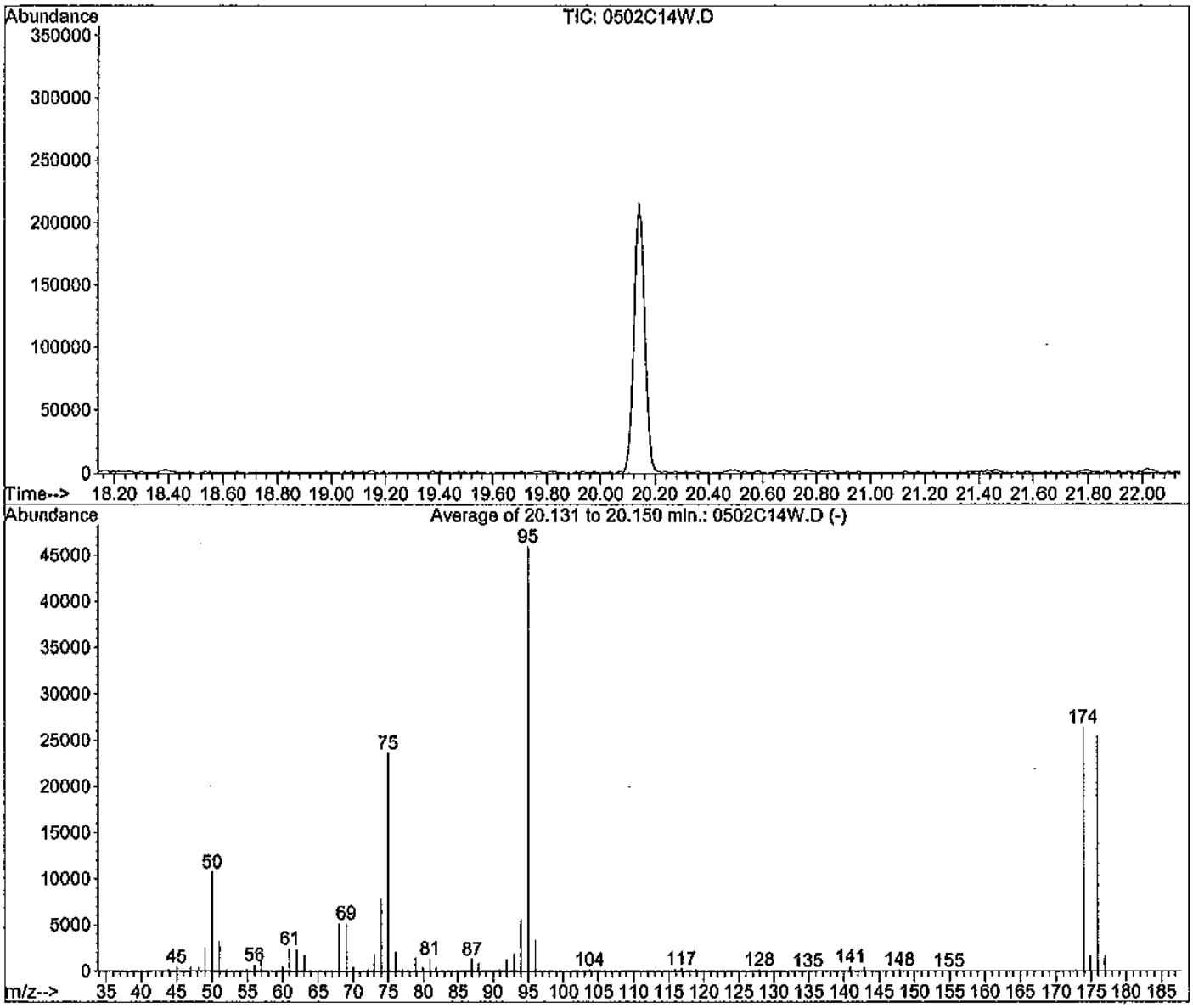


Spectrum Information: Average of 10.758 to 10.770 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	17184	PASS
75	95	30	60	47.8	36875	PASS
95	95	100	100	100.0	77149	PASS
96	95	5	9	6.8	5216	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	60.1	46405	PASS
175	174	5	9	7.1	3274	PASS
176	174	95	101	97.2	45120	PASS
177	176	5	9	6.6	2963	PASS

Data File : M:\CHICO\DATA\C110502\0502C14W.D Vial: 1
Acq On : 3 May 11 00:25 Operator: RS
Sample : 20ug/ml BFB STD 04-15-11A Inst : Chico
Misc : 2uL Multiplr: 1.00

Method : M:\CHICO\DATA\C110502\C86DODW.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Average of 20.131 to 20.150 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.4	10753	PASS
75	95	30	60	51.4	23608	PASS
95	95	100	100	100.0	45912	PASS
96	95	5	9	7.2	3299	PASS
173	174	0.00	2	0.5	122	PASS
174	95	50	100	57.5	26421	PASS
175	174	5	9	6.6	1741	PASS
176	174	95	101	96.2	25429	PASS
177	176	5	9	6.3	1613	PASS

034

4-29-11
RS.

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

	Expiration Date:		04/30/11								
		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	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc	04-25-11T	04-25-11X	04-25-11P	04-25-11R	04-25-11W	04-25-11U	04-25-11Q	04-25-11S	04-25-11V
Code	µg/L	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11
04-28-11T	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
04-29-11U	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
04-29-11V	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
04-29-11W	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
04-29-11X	50	n/a	n/a	5	5	5	n/a	5	n/a	5
04-29-11Y	100	n/a	n/a	10	10	10	n/a	10	n/a	10
04-28-11Z	200	n/a	n/a	20	20	20	n/a	20	n/a	20

50µg/mL TBA 04-25-11Y Exp:05-02-11	Final Vol w/P&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

4-30-11
RS.

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

	Expiration Date:		(05/01/11								
		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	5µg/mL Vol Std #2	50µg/mL Vol Std #12
Date	Conc	04-25-11T	04-25-11X	04-25-11P	04-25-11R	04-25-11W	04-25-11U	04-25-11Q	04-25-11S	04-25-11V
Code	µg/L	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11	Exp:05-02-11
04-30-11A	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
04-30-11B	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
04-30-11C	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
04-30-11D	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
04-30-11E	50	n/a	n/a	5	5	5	n/a	5	n/a	5
04-30-11F	100	n/a	n/a	10	10	10	n/a	10	n/a	10
04-30-11G	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250µg/mL TBA 04-25-11Y Exp:05-02-11	Final Vol w/P&T H2O mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

5-02-11
RS.

A-

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

130016-03

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

Solv: P/T Methanol

Made in the USA

Method 8260 Gases

Lot #: 169238 - 26291

Rec: 2/17/11 MFR exp. 02/19/14

5-02-11
RS.

B-

Hexachloroethane Solution, 1000 mg/L, 1 ml

O2si

Cat. No: 020049-02

Lot No: 157911

Exp: 4/1/2012

Storage: </= -10 Degrees C

Solvent: P/T Methanol

ption For Research Use Only

Opened:

Hexachloroethane

Lot #: 157911 - 26706

Rec: 6/8/10 MFR exp. 04/01/12

5-02-11
RS.

C-

Benzyl Chloride Solution, 1000 mg/L, 1 ml

020218-02

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

Solvent P/T Methanol

Made in the USA

Benzyl Chloride

Lot #: 163373 - 27665

Rec: 12/15/10 MFR exp. 08/29/12

5-02-11 D-
RS

n-Hexane Solution, 1,000 mg/L, 1 ml
020610-02
Lot # 163378 | Storage ≤ -10 Degrees | Expiry 8/29/15
Solvt P/T Methanol
n-Hexane, 1000mg/L
Lot #: 163378 - 27881
Rec: 12/15/10 MFR exp. 08/29/15

5-02-11 E-
RS

Heptane Solution, 1000 mg/L, 1 ml
o2si smart solutions
Cat. No: 020546-02
Lot No: 149236
Heptane Solution
Lot #: 149236 - 27650
Rec: 10/20/10 MFR exp. 08/02/12
Exp: 8/2/2012
Storage: </= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

5-02-11 F-
RS

Method 8260B Surrogate Solution, 2,000 mg/L, 1 ml
120002-01
Lot# 164585 | Storage ≤ -10 Degrees C | Expiry 10/12/13
Solv: P/T Methanol
Method 8260B Surrogate
Lot #: 164585 - 27936
Rec: 12/15/10 MFR exp. 10/12/13

5-02-11 G-
RS

VOC Mix 4-3, 2,000 mg/L, 1 ml
120166-01
Lot# 166725 | Storage ≤ 6 Degrees C | Expiry 12/2/12
Solv: P/T Methanol
VOC Mix 4-3, 2000mg/L
Lot #: 166725 - 28320
Rec: 2/17/11 MFR exp. 12/02/12

5-02-11 H-
RS

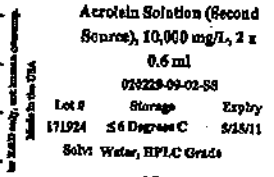
Acrolein Solution, 10,000 mg/L, 2 x 0.6 ml
020219-09-02
Lot # 171923 | Storage ≤ 6 Degrees C | Expiry 5/25/11
Solv: Water, HPLC Grade
Acrolein solution
Lot #: 171923 - 28626
Rec: 4/19/11 MFR exp. 05/25/11

5-02-11 I-
RS

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml
o2si smart solutions
Cat. No: 120016-03-SS
Lot No: 160736
Method 8260 Gases (SS)
Lot #: 160736 - 27915
Rec: 12/15/10 MFR exp. 06/23/11
Exp: 6/21/2013
Storage: </= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

036

5-02-11 J-
RS.



05-02-11K							
50ug/ml Vol Work Std #7							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	169238-28291	05-02-11A	06/02/11	100
02SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
02SI	020228-02	Benzyl Chloride	1000	163393-27865	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3500
05-02-11L							
50ug/ml Vol Work Std #1							
Exp:05/09/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	146517-26190	04-16-11D	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	1950
05-02-11H							
50ug/ml Vol Work Std #8							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	148446-24740	04-16-11E	05/14/11	100
02SI	120023-03	VOC'S-54 COMP	2000	151805-25632	04-25-11C	10/14/11	100
02SI	020232-02	Vinyl Acetate	2000	169439-28359	04-16-11F	05/19/11	100
02SI	020620-02	n-Hexane	1000	163378-27881	05-02-11D	06/14/11	200
02SI	020546-02	Heptane	1000	149236-25650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3300
05-02-11N							
50ug/ml Vol Work Std #2							
Exp:05/09/11			ug/ml				
Supplier	ID #	ID					
02SI	121020-05	MBL'S-Ketone Solution	2000	169173-28308	04-25-11B	05/09/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3900
		05-02-11O	Exp:	05/09/11			
		5ug/ml Vol Work Std #5					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		05-02-11K	05/02/11	200	
		50ug/ml Vol Work Std #8		05-02-11H	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1600	
		05-02-11P	Exp:	05/09/11			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		04-25-11O	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
		05-02-11Q	Exp:	05/09/11			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		04-25-11S	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
05-02-11R							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/09/11			ug/ml	Lot #	Code	Date	uL
02SI	120002-01	8260B Surr Solution	2000	164585-27936	05-02-11F	09/14/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3900
05-02-11S			Exp:	05/09/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-02-11R	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	1800	

5-02-11
RS.

5-02-11
RS.

05-02-11S							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P							
Exp:05/09/11						APPL	
			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-J	2000	166725-28320	05-02-11Q	05/17/11	500
02SI	020229-09	Acrolein	10000	171921-28626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3400

5-02-11
RS

05-02-11U							
50ug/ml VOC Std#5							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03-SS	8260 Gases(SS)	2000	160736-27915	05-02-11I	05/02/11	50
02SI	020145-02-02-S	2-CEVE	2000	152530-25456	04-16-11L	11/03/11	50
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1900
05-02-11V							
50ug/ml VOC Std#6							
Exp:05/09/11							
	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120023-03-SS	VOC'S 54 COMP.	2000	148632-26236	04-16-11M	07/14/11	50
02SI	120296-01	Custom 8260 Solution	2000	154846-25954	04-16-11N	07/14/11	50
02SI	020232-02-SS	Vinyl Acetate(SS)	2000	167177-28334	04-16-11R	05/15/11	50
02SI	020620-02-SS	n-HEXANE	1000	150529-27171	04-16-11O	09/02/11	100
02SI	020049-02-SS	HEXACHLOROETHANE	1000	154535-25914	04-16-11P	12/29/11	100
02SI	020546-02-SS	Heptane(SS)	1000	142276-23594	04-16-11Q	06/19/11	100
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1550
05-02-11W							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/09/11						Exp.	
			Conc.		Date		
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01-SS	VOC Mix 4-J (SS)	2000	152511-26241	04-03-11K	11/03/11	250
02SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	171924-28628	05-02-11J	05/25/11	50
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1700

5-02-11
RS

05-02-11X							
50ug/ml Vol Work Std #7							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	159238-28291	05-02-11A	06/02/11	100
02SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
02SI	020228-02	Benzyl Chloride	1000	163371-27865	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3500
05-02-11Y							
50ug/ml Vol Work Std #1							
Exp:05/09/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	146517-26130	04-16-11O	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	1950
05-02-11Z							
50ug/ml Vol Work Std #8							
Exp:05/09/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120023-02	Volatile Mix, 10-29	2000	148446-24740	04-16-11E	05/14/11	100
02SI	120023-03	VOC'S-54 COMP	2000	151805-25632	04-25-11C	10/14/11	100
02SI	020232-02	Vinyl Acetate	2000	169439-28359	04-16-11F	05/19/11	100
02SI	020620-02	n-Hexane	1000	161378-27861	05-02-11D	06/14/11	200
02SI	020546-02	Heptane	1000	149236-27650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3300
05-02-11AA							
50ug/ml Vol Work Std #2							
Exp:05/09/11				ug/ml			
Supplier	ID #	ID					
02SI	121020-05	MSL'S-Ketone Solution	2000	168173-28308	04-25-11B	05/07/11	100
J&T Brand		Purge & Trap MeOH		H45836-00512	05/02/11	10/14/11	3900
		05-02-11AB	Exp:	05/09/11			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		05-02-11X	05/02/11	200	
		50ug/ml Vol Work Std #8		05-02-11Z	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1600	

038

		05-02-11AC	Exp:	05/09/11			
		5ug/ml Vol Work Std #10					
		SOURCE	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		05-02-11Y	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
		05-02-11AD	Exp:	05/09/11			
		5ug/ml Vol Work Std #12					
		SOURCE	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		05-02-11AA	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
05-02-11AE							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/09/11			ug/ml	Lot #	Code	Date	uL
02SI	120003-01	8260B Surr Solution	2000	164585-27936	05-02-11F	09/14/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3900
05-02-11AF			Exp:	05/09/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-02-11AB	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	1800	
05-02-11AG							
250ug/ml TBA/IPA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/09/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	166725-28120	05-02-11G	05/17/11	500
02SI	020229-09	Acrolein	10000	171923-29626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45E36-00512	05/02/11	10/14/11	3400

5-02-11
RS

05/02/11AH							
2000ug/ml Gasoline						APPL	
			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
Supelco	LB61226	Gasoline	20	LB61226-26324	10-29-10A	09/02/11	200
J&T Brand		Purge & Trap MeOH		H46E44-00490	01/17/11	03/02/12	1800
05/02/11AI							
2000ug/ml Unleaded Gasoline						APPL	
			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
Supelco	30205	Unleaded Gasoline	50,000	A050005-21116	10-29-10B	11/30/12	80
J&T Brand		Purge & Trap MeOH		H46E44-00490	01/17/11	03/02/12	1920

5-02-11
RS

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

	Expiration Date:		05/03/11							
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	50ug/mL Vol Std #2	5ug/mL Vol Std #12
Date	Conc.	05-02-11O	05-02-11S	05-02-11K	05-02-11M	05-02-11R	05-02-11P	05-02-11L	05-02-11N	05-02-11Q
Code	ug/L	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-02-11AJ	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-02-11AK	0.5	5	10	n/a	n/a	n/a	6	n/a	n/a	5
05-02-11AL	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-02-11AM	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-02-11AN	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-02-11AO	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-02-11AP	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-02-11AQ	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-02-11AR	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

260ug/mL TAPD 05-02-11S Exp:05-09-11	Final Vol w/P&T H2O
	mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

042

5-06-11
RS

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

	Expiration Date:		05/07/11								
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	50ug/mL Vol Std #2	5ug/mL Vol Std #12
Date	Conc.	05-02-11AB	05-02-11AF	05-02-11X	05-02-12	05-02-11AE	05-02-11AC	05-02-11Y	05-02-11AA	05-02-11AD
Code	µg/L	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-06-11L	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-06-11M	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-06-11N	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-06-11O	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-06-11P	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-06-11Q	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-06-11R	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-06-11S	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-06-11T	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250µg/mL TAPD 05-02-11AG Exp:05-09-11	Final Vol w/P&T H2O mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-07-11
5-06-11
RS

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

	Expiration Date:		05/08/11								
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	50ug/mL Vol Std #2	5ug/mL Vol Std #12
Date	Conc.	05-02-11AB	05-02-11AF	05-02-11X	05-02-12	05-02-11AE	05-02-11AC	05-02-11Y	05-02-11AA	05-02-11AD
Code	µg/L	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-07-11A	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-07-11B	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-07-11C	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-07-11D	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-07-11E	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-07-11F	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-07-11G	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-07-11H	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-07-11I	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250µg/mL TAPD 05-02-11AG Exp:05-09-11	Final Vol w/P&T H2O mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-07-11
RS

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

	Expiration Date:		05/08/11								
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	50ug/mL Vol Std #2	5ug/mL Vol Std #12
Date	Conc.	05-02-11AB	05-02-11AF	05-02-11X	05-02-12	05-02-11AE	05-02-11AC	05-02-11Y	05-02-11AA	05-02-11AD
Code	µg/L	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11	Exp:05-09-11
05-07-11J	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-07-11K	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-07-11L	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-07-11M	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-07-11N	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-07-11O	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-07-11P	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-07-11Q	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-07-11R	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250µg/mL TAPD 05-02-11AG Exp:05-09-11	Final Vol w/P&T H2O mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-09-11
RS.

A.

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

120016-03

Lot #	Storage	Expiry
169238	-5 -10 Degrees C	2/19/14

Solv: P/T Methanol

Method 8260 Gases

Lot #: 169238 - 28292

Rec: 2/17/11 MFR exp. 02/19/14

RS

5-09-11 B-
RS

2-Chloroethyl Vinyl Ether Solution, 2,000 mg/L, 2 X 0.6 ml

o2si smart solutions

Cat. No: 020145-02-02
Lot No: 160092

Exp: 5/27/2012
Storage: </= -10 Degrees C
Solvent: P/T Methanol

2-Chloroethyl vinyl ether
Lot #: 160092 - 26629
Rec: 6/4/10 MFR exp. 05/27/12

ription For Research Use Only
Opened: _____

RS

5-09-11 C.
RS

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

120002-01

Lot#	Storage	Expiry
161555	< 10 Degrees C	10/12/13

Solv: P/T Methanol

Method 8260B Surrogate
Lot #: 164585 - 27924
Rec: 12/15/10 MFR exp. 10/12/13

RS

5-09-11 D.
RS

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

120166-01

Lot#	Storage	Expiry
160725	< 6 Degrees C	11/2/12

Solv: P/T Methanol

VOC Mix 4-3, 2000mg/L
Lot #: 166725 - 28314
Rec: 2/17/11 MFR exp. 12/02/12

RS

5-09-11 E.
RS.

Method 8260 Gases (Second Source), 2,000 mg/L, 2 X 0.6 ml

o2si smart solutions

Cat. No: 120016-03-SS
Lot No: 160736

Exp: 6/21/2013
Storage: </= -10 Degrees C
Solvent: P/T Methanol

Method 8260 Gases (SS)
Lot #: 160736 - 27904
Rec: 12/15/10 MFR exp. 06/23/11

tion For Research Use Only
Opened: _____

RS

5-09-11
RS.

05-09-11F							
50ug/ml Vol Work Std #7							
Exp:05/16/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	120016-03	Gas Mix	2000	169236-28292	05-09-11A	05/02/11	100
02SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
02SI	020228-02	Benzyl Chloride	1000	161373-27865	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3500
05-09-11G							
50ug/ml Vol Work Std #1							
Exp:05/16/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CEVE	2000	146517-26192	05-09-11B	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	1950

RS

044

05-09-11H							
50ug/ml Vol Work Std #8							
Exp:05/16/11							
			Conc.		Date	Exp.	
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	122039-02	Volatile Mix, 20-29	2000	148446-24740	04-16-11E	05/14/11	100
02SI	120023-03	VOC'S-54 COMP	2000	151805-25632	04-25-11C	10/14/11	100
02SI	020232-02	Vinyl Acetate	2000	169439-28359	04-16-11F	05/19/11	100
02SI	020620-02	n-Hexane	1000	163378-27881	05-02-11D	06/14/11	200
02SI	020546-02	Heptane	1000	149236-27650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3300
05-09-11I							
50ug/ml Vol Work Std #2							
Exp:05/16/11			ug/ml				
Supplier	ID #	ID					
02SI	121020-05	HSL'S-Ketone Solution	2000	169173-28J08	04-25-11B	05/07/11	100
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3900
		05-09-11J	Exp:	05/16/11			
		5ug/ml Vol Work Std #9					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #7		05-09-11F	05/02/11	200	
		50ug/ml Vol Work Std #8		05-09-11H	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1600	
		05-09-11K	Exp:	05/16/11			
		5ug/ml Vol Work Std #10					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #1		05-09-11G	05/02/11	200	
		J&T Brand		05/02/11	10/14/11	1800	
		05-09-11L	Exp:	05/16/11			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		05-09-11I	05/02/11	200	
		J&T Brand		H45B36-00514	05/09/11	1800	
05-09-11M							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/16/11			ug/ml	Lot #	Code	Date	ul
02SI	120002-01	8260B Surr Solution	2000	164585-27924	05-09-11C	09/14/11	100
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3900
05-09-11N			Exp:	05/16/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-09-11M	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	1800	
05-09-11O							
250ug/ml TBA/IBA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/16/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	ul
02SI	120166-01	Volatile Mix 4-3	2000	166725-28J14	05-09-11D	05/17/11	500
02SI	020229-09	Acrolein	10000	171921-28626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3400

5-09-11
RS

05-09-11P
50ug/ml VOC Std#5
Exp:05/16/11

Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
O2SI	120016-03-SS	8260 Gases(SS)	2000	160736-27904	05-09-11E	06/02/11	50
O2SI	020145-02-02-S	2-CEVE	2000	152530-25456	04-16-11L	11/01/11	50
J&T Brand		Purge & Trap MeOH		H45E36-00514	05/09/11	10/14/11	1900

05-09-11Q
50ug/ml VOC Std#6
Exp:05/16/11

	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	120021-03-SS	VOC'S 54 COMP.	2000	148632-26236	04-16-11M	07/14/11	50
O2SI	120296-01	Custom 8260 Solution	2000	154846-25954	04-16-11N	07/14/11	50
O2SI	020232-02-SS	Vinyl Acetate(SS)	2000	167177-28334	04-16-11R	05/15/11	50
O2SI	020620-02-SS	n-HEXANE	1000	150529-27171	04-16-11O	09/02/11	100
O2SI	020049-02-SS	HEXACHLOROETHANE	1000	154535-25914	04-16-11P	12/29/11	100
O2SI	020546-02-SS	Heptane(SS)	1000	142276-23594	04-16-11Q	06/19/11	100
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	1950

05-09-11R
250ug/ml TBA/IPA/Acetonitrile/Cyclohexanone/Acrolein/2-P
Exp:05/16/11

Supplier	ID #		Conc. ug/ml	Lot #	Date Code	APPL Exp. Date	uL
O2SI	120166-01-SS	VOC Mix 4-3 (SS)	2000	152531-26241	04-03-11K	11/03/11	250
O2SI	020229-09-SS	Acrolein SOLUTION (SS)	10000	171924-28628	05-02-11J	05/25/11	50
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	1700

05-09-11S
50ug/ml Vol Work Std #7
Exp:05/16/11

Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
O2SI	120016-01	Gas Mix	2000	169238-28293	05-09-11A	06/02/11	100
O2SI	020049-02	HEXACHLOROETHANE	1000	157911-26706	05-02-11B	05/14/11	200
O2SI	020228-02	Benzyl Chloride	1000	163171-27865	05-02-11C	05/14/11	200
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3500

05-09-11T
50ug/ml Vol Work Std #1
Exp:05/16/11

Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	020145-02-02	2-CEVE	2000	146517-26192	05-09-11B	05/07/11	50
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	1950

05-09-11U
50ug/ml Vol Work Std #8
Exp:05/16/11

Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
O2SI	120039-02	Volatile Mix, 20-29	2000	148446-24740	04-16-11E	05/14/11	100
O2SI	120023-03	VOC'S-54 COMP	2000	151805-25612	04-26-11C	10/14/11	100
O2SI	020232-02	Vinyl Acetate	2000	169439-28369	04-16-11F	05/19/11	100
O2SI	020620-02	n-Hexane	1000	163178-27881	05-02-11D	06/14/11	200
O2SI	020546-02	Heptane	1000	149236-27650	05-02-11E	06/14/11	200
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3300

05-09-11V
50ug/ml Vol Work Std #2
Exp:05/16/11

Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	121020-05	HSL'S-Ketone Solution	2000	169173-28308	04-25-11B	05/07/11	100
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3900

05-09-11W	Exp:	05/16/11		
5ug/ml Vol Work Std #3				
SOURCES	Lot	APPL Code	APPL Exp Date	ul
50ug/ml Vol Work Std #7		05-09-11S	05/02/11	200
50ug/ml Vol Work Std #8		05-09-11U	05/02/11	200
J&T Brand		05/02/11	10/14/11	1600

05-09-11X	Exp:	05/16/11		
5ug/ml Vol Work Std #10				
SOURCES	Lot	APPL Code	APPL Exp Date	ul
50ug/ml Vol Work Std #1		05-09-11T	05/02/11	200
J&T Brand		05/02/11	10/14/11	1800

5-09-11 RS

5-09-11 RS

046

		05-09-11Y	Exp:	05/16/11			
		5ug/ml Vol Work Std #12					
		SOURCES	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2		05-09-11V	05/02/11	200	
		J&T Brand		H45B36-00514	05/09/11	1800	
05-09-11Z							
50ug/ml 8260 Surrogate			Conc.		Date	Exp.	
Exp:05/16/11			ug/ml	Lot #	Code	Date	uL
02SI	120002-01	8260B Surr Solution	2000	164585-27924	05-09-11C	09/14/11	100
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	1900
05-09-11AA			Exp:	05/16/11			
5.0ug/ml 8260 Surrogate			Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml 8260 Surrogate		05-09-11Z	05/02/11	200	
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	1800	
05-09-11AB							
250ug/ml TBA/ISA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL	
Exp:05/16/11			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120166-01	Volatile Mix 4-3	2000	166726-28314	05-09-11D	05/12/11	500
02SI	020229-09	Acrolein	10000	171923-28626	05-02-11H	04/25/11	100
J&T Brand		Purge & Trap MeOH		H45B36-00514	05/09/11	10/14/11	3400

5-09-11
RS

RS

5-09-11
RS

RS

Method 8260 Internal Standard Solution, 2,000 mg/L, 1 ml

02si

Cat. No: 120302-03
Lot No: 153416
Method 8260 Internal Standard
Lot #: 153416 - 27532
Rec: 10/12/10 MFR exp. 11/24/11

Exp: 11/24/2011
Storage: <= -10 Degrees C
Solvent: P/T Methanol
For Research Use Only

5-09-11
RS

RS

Fluorobenzene Solution, 2,000 mg/L, 1 ml

020132-02

Lot # 162971 Storage <6 Degrees C Expiry 8/12/13
Solvent P/T Methanol

Fluorobenzene
Lot #: 162971 - 27950
Rec: 12/15/10 MFR exp. 08/12/13

5-09-11
RS

RS

Hewey							
05-09-11AE							
250ug/ml 8260 Internal Standard - Hewey			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120302-03	Internal Standard Mix	2000	153416-27532	05-09-11AC	07/16/11	500
02SI	020132-02	Fluorobenzene Standard	2000	162971-27950	05-09-11AD	07/16/11	500
JT Baker		Purge & Trap MeOH		H46E44-00509	04/25/11	12/14/11	3000
05-09-11AF							
250ug/ml 8260 Surrogate - Hewey			Conc.		Date	Exp.	
Supplier	ID #		ug/ml	Lot #	Code	Date	uL
02SI	120002-01	Surrogate Standard	2000	164585-27924	05-09-11C	08/16/11	500
B&J Brand		Purge & Trap MeOH		H46E44-00509	04/25/11	12/14/11	3500

5-09-11
RS

5-11-11
RS.

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

	Expiration Date:		05/12/11								
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #3	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	5ug/mL Vol Std #2	50ug/mL Vol Std #12
Date	Conc.	05-09-11W	05-09-11AA	05-09-11S	05-09-11U	05-09-11Z	05-09-11X	05-09-11T	05-09-11V	05-09-11Y
Code	ug/L	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11
05-11-11L	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a
05-11-11M	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a
05-11-11N	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a
05-11-11O	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a
05-11-11P	60	n/a	n/a	5	5	5	n/a	5	n/a	5
05-11-11Q	100	n/a	n/a	10	10	10	n/a	10	n/a	10
05-11-11R	200	n/a	n/a	20	20	20	n/a	20	n/a	20

250ug/mL TBA	Final Vol
05-09-11AB	wP&T H2O
Exp:05-16-11	mL
1	5
2	5
3	5
4	5
5	5
6	5
7	5

5-11-11
RS.

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

	Expiration Date:		05/12/11								
		5ug/mL Vol Std #9	5ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #3	50ug/mL Surr	5ug/mL Vol Std #10	50ug/mL Vol Std #1	5ug/mL Vol Std #2	5ug/mL Vol Std #12
Date	Conc.	05-09-11J	05-09-11N	05-09-11F	05-09-11H	05-09-11M	05-09-11K	05-09-11G	05-09-11I	05-09-11L
Code	ug/L	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11	Exp:05-16-11
05-11-11S	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	3
05-11-11T	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	5
05-11-11U	1	10	20	n/a	n/a	n/a	10	n/a	n/a	10
05-11-11Y	2	20	40	n/a	n/a	n/a	20	n/a	n/a	20
05-11-11W	5	n/a	n/a	5	5	10	n/a	5	5	n/a
05-11-11X	10	n/a	n/a	10	10	25	n/a	10	10	n/a
05-11-11Y	20	n/a	n/a	20	20	40	n/a	20	20	n/a
05-11-11Z	40	n/a	n/a	40	40	80	n/a	40	40	n/a
05-11-11AA	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a

250ug/mL TAPD	Final Vol
05-09-11O	wP&T H2O
Exp:05-16-11	mL
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

5-12-11
RS

A-

Method 8260 Internal Standard Solution, 2,000 mg/L, 1 ml

o2si
Method 8260 Internal Standard
Cat. No: 120302-03
Lot No: 153416
Exp: 11/24/2011
Storage: <= -10 Degrees C
Solvent: P/T Methanol
Option: For Research Use Only
Opened: _____

Lot #: 153416 - 27534
Rec: 10/12/10 MFR exp. 11/24/11

5-12-11
RS

B-

Fluorobenzene Solution, 2,000 mg/L, 1 ml

020132-02
Lot # 161971 | Storage ≤6 Degrees C | Expiry 8/12/13
Solv: P/T Methanol

Fluorobenzene
Lot #: 162971 - 27952
Rec: 12/15/10 MFR exp. 08/12/13

5-12-11
RS

C-

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

120002-01
Lot # 164585 | Storage -10 Degrees C | Expiry 10/12/13
Solv: P/T Methanol

Method 8260B Surrogate
Lot #: 164585 - 27930
Rec: 12/15/10 MFR exp. 10/12/13

Injection Log

Directory: M:\CHICO\DATA\C110422\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0422C13T.D	1	20ug/ml BFB STD 04-15-11A	2ul	22 Apr 11 23:53
2	1	0422C14W.[	1	Vol Std 4-22-11@20ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 1:03
3	1	0422C15W.[	1	Vol Std 4-22-11@50ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 1:38
4	1	0422C16W.[	1	Vol Std 4-22-11@100ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 2:13
5	1	0422C17W.[	1	Vol Std 4-22-11@300ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 2:48
6	1	0422C18W.[	1	Vol Std 4-22-11@600ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 3:23
7	1	0422C19W.[	1	Vol Std 4-22-11@800ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 3:58
8	1	0422C20W.[	1	Vol Std 4-22-11@1000ug/L	Water 10ml w/IS: 04-12-11	23 Apr 11 4:33
9	1	0422C22W.[	1	GAS 300 ug/L STD(SS)	Water 10ml w/IS&S: 04-12-1	23 Apr 11 5:42

Injection Log

Directory: M:\CHICO\DATA\C110502\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	0502C00T.D	1	20ug/ml BFB STD 04-15-11A	2uL	2 May 11 14:08
2	1	0502C05W.D	1	Vol Std 05-02-11@0.5ug/L	Water 10ml w/IS: 05-02-11	2 May 11 17:57
3	1	0502C06W.D	1	Vol Std 05-02-11@1.0ug/L	Water 10ml w/IS: 05-02-11	2 May 11 18:33
4	1	0502C07W.D	1	Vol Std 05-02-11@2.0ug/L	Water 10ml w/IS: 05-02-11	2 May 11 19:08
5	1	0502C08W.D	1	Vol Std 05-02-11@5.0ug/L	Water 10ml w/IS: 05-02-11	2 May 11 19:43
6	1	0502C09W.D	1	Vol Std 05-02-11@10ug/L	Water 10ml w/IS: 05-02-11	2 May 11 20:19
7	1	0502C10W.D	1	Vol Std 05-02-11@20ug/L	Water 10ml w/IS: 05-02-11	2 May 11 20:54
8	1	0502C11W.D	1	Vol Std 05-02-11@40ug/L	Water 10ml w/IS: 05-02-11	2 May 11 21:29
9	1	0502C12W.D	1	Vol Std 05-02-11@100ug/L	Water 10ml w/IS: 05-02-11	2 May 11 22:04
10	1	0502C14W.D	1	20ug/ml BFB STD 04-15-11A	2uL	3 May 11 00:25
11	1	0502C15W.D	1	GAS Std 05-02-11@300ug/L	Water 10ml w/IS&S: 05-02-1	3 May 11 1:00
12	1	0502C16W.D	1	Vol Std 05-02-11@10ug/L	Water 10ml w/IS&S: 05-02-1	3 May 11 1:35
13	1	0502C17W.D	1	110502A LCS-1WC (SS)	Water 10ml w/IS&S: 05-02-1	3 May 11 2:10
14	1	0502C20W.D	1	110502A BLK-1WC	Water 10ml w/IS&S: 05-02-1	3 May 11 5:05
15	1	0502C21W.D	1	AY36736W01	Water 10ml w/IS&S: 05-02-1	3 May 11 5:41
16	1	0502C22W.D	1	AY36735W01	Water 10ml w/IS&S: 05-02-1	3 May 11 6:16

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	05/02/11	05/02/11	#602D-110502A-AY36735

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)	250	234	93.6	80-120	05/02/11	05/02/11	#602D-110502A-AY36735

Comments: _____

Printed: 05/13/11 2:24:53 PM
APPL Standard LCS

Matrix Spike Recoveries

METALS

APPL ID: **110502W-36735 MS - 154718**

Sample ID: AY36735

Client ID: ES033

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	250	ND	229	227	91.6	90.8	0.9	20	80-120	05/02/11	05/02/11	05/02/11	05/02/11	154718	AY36735

Comments: _____

Printed: 05/13/11 2:24:48 PM
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: Vilma Dupra
Project: LTM Red Hill Bulk Fuel Storage Facility
Sample ID: ES033
Sample Collection Date: 04/28/11

ARF: 64544
APPL ID: AY36735

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	05/02/11	05/02/11

Printed: 05/13/11 2:35:03 PM

APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\101SMPL.D\101SMPL.D#
Date Acquired: May 2 2011 09:02 pm
Operator: SDM
Sample Name: AY36735W08
Misc Info: 110502A-3015
Vial Number: 3412
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	-0.34	ug/l	-0.38	0.83	1000	
11 B	54.09	ug/l	60.09	1.15	1000	
23 Na	34300.00	ug/l	38107.30	1.77	25000	>Cal
24 Mg	9930.00	ug/l	11032.23	1.75	50000	
27 Al	28.34	ug/l	31.49	4.43	20000	
39 K	1948.00	ug/l	2164.23	1.95	20000	
44 Ca	18650.00	ug/l	20720.15	1.40	50000	
47 Ti	1.74	ug/l	1.93	6.22	1000	
51 V	0.16	ug/l	0.18	14.84	1000	
52 Cr	0.41	ug/l	0.45	4.86	1000	
55 Mn	864.80	ug/l	960.79	1.65	1000	
56 Fe	468.30	ug/l	520.28	2.58	20000	
59 Co	0.51	ug/l	0.57	5.09	1000	
60 Ni	1.06	ug/l	1.18	7.99	1000	
63 Cu	-0.03	ug/l	-0.04	17.36	1000	
65 Cu	0.04	ug/l	0.05	47.03	1000	
66 Zn	38.21	ug/l	42.45	1.97	1000	
75 As	0.32	ug/l	0.36	8.87	1000	
78 Se	0.11	ug/l	0.12	13.19	1000	
78 Se	0.48	ug/l	0.53	38.67	1000	
88 Sr	98.76	ug/l	109.72	2.15	1000	
88 Sr	107.50	ug/l	119.43	1.33	1000	
95 Mo	0.42	ug/l	0.47	12.39	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	0.02	ug/l	0.02	12.97	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.04	ug/l	0.04	59.73	1000	
118 Sn	0.90	ug/l	1.00	5.35	1000	
121 Sb	0.84	ug/l	0.93	5.19	1000	
137 Ba	12.09	ug/l	13.43	1.58	1000	
205 Tl	0.01	ug/l	0.02	22.81	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	-0.24	ug/l	-0.27	4.63	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1202434.60	0.81	1481195.40	81.2	70 - 120	
45 Sc	791069.25	0.95	772553.25	102.4	70 - 120	
45 Sc	22328.58	2.43	22503.75	99.2	70 - 120	
45 Sc	1235206.00	2.04	1185323.00	104.2	70 - 120	
72 Ge	152562.55	0.97	148368.02	102.8	70 - 120	
72 Ge	10533.93	1.56	10084.80	104.5	70 - 120	
72 Ge	184928.56	1.11	194175.66	95.2	70 - 120	
115 In	915264.56	0.65	966828.31	94.7	70 - 120	
159 Tb	1008389.70	0.65	1047627.10	96.3	70 - 120	
165 Ho	963087.13	0.61	1003648.30	96.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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

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: 64544 SDG: 64544

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 5/2/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:35	%R(1)	True CCV1	Found 12:00	%R(1)	True CCV1	Found 13:02	%R(1)	
Lead (Pb)	100	97.93	97.9	50	49.52	99.0	50	47.64	95.3	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: 64544 SDG: 64544

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 5/2/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:35	%R(1)	True CCV1	Found 14:48	%R(1)	True CCV1	Found 19:47	%R(1)	
Lead (Pb)	100	97.93	97.9	50	47.53	95.1	50	46.91	93.8	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: 64544 SDG: 64544

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 5/2/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 11:35	%R(1)	True CCV1	Found 21:27	%R(1)	True CCV1	Found 23:07	%R(1)	
Lead (Pb)	100	97.93	97.9	50	46.45	92.9	50	46.62	93.2	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.: 64544 SDG: 64544

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 5/2/2011

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)								Preparation Blank		M
		C	1	C	2	C	3	C		C			
	12:19		12:25		13:27		15:07		13:46				
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.: 64544 SDG: 64544

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 5/2/2011

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	12:19		20:12		21:52		23:32		13:46		
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.:	64544	SDG:	64544
ICP ID Number:	Optimus	ICS Source:	Environmental Express

Analysis Date: 5/2/2011 Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 12:43	Sol AB 12:50	%R(1)
Lead (Pb)		500	2.834	479.8	96.0

(1) Control Limits: Metals 80-120

A.P.P.L. INC.

5B

POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

ES033

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 64544 SDG: 64544

Analysis Date: 5/2/2011 Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	242.646		-0.265623		250.000	97.1		

Comments:

5/2/2011 21:02 AY36735W08

5/2/2011 21:59 AY36735W08-A

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\110SMPL.D\110SMPL.D#
Date Acquired: May 2 2011 09:59 pm
Operator: SDM
Sample Name: AY36735W08-A
Misc Info: 110502A-3015
Vial Number: 3503
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	35.63 ug/l	39.58	1.18	1000	
11 B	265.40 ug/l	294.86	1.43	1000	
23 Na	55250.00 ug/l	61382.75	2.61	25000	>Cal
24 Mg	30910.00 ug/l	34341.01	2.06	50000	
27 Al	1771.00 ug/l	1967.58	1.90	20000	
39 K	6427.00 ug/l	7140.40	1.60	20000	
44 Ca	41070.00 ug/l	45628.77	0.64	50000	
47 Ti	220.70 ug/l	245.20	1.52	1000	
51 V	231.20 ug/l	256.86	0.07	1000	
52 Cr	220.80 ug/l	245.31	0.80	1000	
55 Mn	1049.00 ug/l	1165.44	0.92	1000	>Cal
56 Fe	1328.00 ug/l	1475.41	0.69	20000	
59 Co	219.80 ug/l	244.20	0.86	1000	
60 Ni	209.20 ug/l	232.42	2.28	1000	
63 Cu	202.50 ug/l	224.98	0.80	1000	
65 Cu	203.00 ug/l	225.53	0.70	1000	
66 Zn	429.10 ug/l	476.73	0.70	1000	
75 As	219.90 ug/l	244.31	0.23	1000	
78 Se	221.30 ug/l	245.86	0.27	1000	
78 Se	208.60 ug/l	231.75	2.08	1000	
88 Sr	326.10 ug/l	362.30	1.46	1000	
88 Sr	335.10 ug/l	372.30	0.50	1000	
95 Mo	231.10 ug/l	256.75	0.69	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	49.73 ug/l	55.25	0.40	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	44.05 ug/l	48.94	0.67	1000	
118 Sn	229.40 ug/l	254.86	0.73	1000	
121 Sb	240.20 ug/l	266.86	0.66	1000	
137 Ba	246.70 ug/l	274.08	0.94	1000	
205 Tl	219.40 ug/l	243.75	0.40	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	218.60 ug/l	242.86	0.17	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1162365.50	0.88	1481195.40	78.5	70 - 120	
45 Sc	773747.38	0.40	772553.25	100.2	70 - 120	
45 Sc	22091.16	1.45	22503.75	98.2	70 - 120	
45 Sc	1209108.30	1.05	1185323.00	102.0	70 - 120	
72 Ge	147467.38	0.63	148368.02	99.4	70 - 120	
72 Ge	10290.44	0.88	10084.80	102.0	70 - 120	
72 Ge	184866.81	0.86	194175.66	95.2	70 - 120	
115 In	902519.19	0.80	966828.31	93.3	70 - 120	
159 Tb	989393.06	0.72	1047627.10	94.4	70 - 120	
165 Ho	947305.56	0.87	1003648.30	94.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.B\005CALB.D\005CALB.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.
ES033

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No.: 64544 SDG: 64544

Matrix: water

Analysis Date: 5/2/2011 Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	%D	Q	M
Lead (Pb)	-0.265623		-2.320188		NA		

Comments:

5/2/2011 21:02 AY36735W08

5/2/2011 22:05 AY36735W08-1/5

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\111SMPL.D\111SMPL.D#
Date Acquired: May 2 2011 10:05 pm
Operator: SDM
Sample Name: AY36735W08-1/5
Misc Info: 110502A-301S
Vial Number: 3504
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	-0.35 ug/l	-1.93	0.23	1000	
11 B	14.16 ug/l	78.67	1.60	1000	
23 Na	7366.00 ug/l	40925.50	1.39	25000	
24 Mg	2036.00 ug/l	11312.02	0.94	50000	
27 Al	4.88 ug/l	27.12	25.99	20000	
39 K	442.70 ug/l	2459.64	2.71	20000	
44 Ca	3699.00 ug/l	20551.64	2.87	50000	
47 Ti	0.66 ug/l	3.67	13.39	1000	
51 V	0.08 ug/l	0.43	22.77	1000	
52 Cr	0.11 ug/l	0.63	1.24	1000	
55 Mn	173.30 ug/l	962.85	1.02	1000	
56 Fe	91.56 ug/l	508.71	1.52	20000	
59 Co	-0.31 ug/l	-1.74	5.60	1000	
60 Ni	0.23 ug/l	1.29	11.03	1000	
63 Cu	-0.40 ug/l	-2.20	5.64	1000	
65 Cu	-0.36 ug/l	-2.02	7.10	1000	
66 Zn	6.03 ug/l	33.47	3.73	1000	
75 As	0.33 ug/l	1.82	6.15	1000	
78 Se	0.34 ug/l	1.87	15.69	1000	
78 Se	0.74 ug/l	4.13	21.19	1000	
88 Sr	19.60 ug/l	108.90	3.52	1000	
88 Sr	21.40 ug/l	118.90	1.20	1000	
95 Mo	0.48 ug/l	2.65	6.12	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	0.22 ug/l	1.22	2.62	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	0.03 ug/l	0.16	51.12	1000	
118 Sn	0.73 ug/l	4.06	13.23	1000	
121 Sb	2.30 ug/l	12.75	7.74	1000	
137 Ba	2.43 ug/l	13.51	1.77	1000	
205 Tl	0.01 ug/l	0.03	39.62	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	-0.42 ug/l	-2.32	1.13	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1346531.00	0.88	1481195.40	90.9	70 - 120	
45 Sc	747990.38	0.31	772553.25	96.8	70 - 120	
45 Sc	22168.71	0.99	22503.75	98.5	70 - 120	
45 Sc	1142077.50	1.82	1185323.00	96.4	70 - 120	
72 Ge	154774.28	0.50	148368.02	104.3	70 - 120	
72 Ge	10330.46	1.32	10084.80	102.4	70 - 120	
72 Ge	185615.09	1.30	194175.66	95.6	70 - 120	
115 In	910573.38	1.59	966828.31	94.2	70 - 120	
159 Tb	965543.50	1.03	1047627.10	92.2	70 - 120	
165 Ho	927157.44	0.56	1003648.30	92.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\005CAL
Date Acquired: May 2 2011 11:04 am
Operator: SDM
Sample Name: Calibration Blank
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:02 am
Sample Type: CalBlk
Total Dil Factor: 1.00

QC&ISTD Elements

Element		CPS Mean		SD	RSD(%)
6	Li	1481195.00	A	13300.00	0.90
7	(Li)	89098.59	P	807.40	0.91
9	Be	2090.22	P	113.50	5.43
11	B	952.29	P	61.86	6.50
23	Na	14446.30	P	263.80	1.83
24	Mg	142.23	P	27.15	19.09
27	Al	125.56	P	21.17	16.86
39	K	14666.66	P	1057.00	7.21
44	Ca	204.19	P	21.52	10.54
45	Sc	772553.19	P	3360.00	0.43
45	Sc	22503.75	P	1178.00	5.23
45	Sc	1185323.00	A	6603.00	0.56
47	Ti	3.56	P	3.85	108.25
51	V	141.78	P	22.68	16.00
52	Cr	45.78	P	0.77	1.68
55	Mn	27.56	P	6.71	24.35
56	Fe	5149.86	P	285.60	5.55
59	Co	900.04	P	42.61	4.73
60	Ni	26.22	P	3.08	11.74
63	Cu	912.49	P	20.50	2.25
65	Cu	424.01	P	18.33	4.32
66	Zn	145.78	P	12.39	8.50
72	Ge	148368.00	P	1592.00	1.07
72	Ge	10084.80	P	253.50	2.51
72	Ge	194175.70	P	1234.00	0.64
75	As	13.56	P	2.04	15.03
78	Se	18.00	P	0.58	3.21
78	Se	1.56	P	1.17	75.28
88	Sr	17.78	P	9.62	54.13
88	Sr	190.01	P	8.82	4.64
95	Mo	304.46	P	20.37	6.69
106	(Cd)	73.34	P	5.77	7.87
107	Ag	82.23	P	21.17	25.75
108	(Cd)	80.00	P	11.55	14.44
111	Cd	-13.63	P	11.65	85.49
115	In	966828.31	P	4146.00	0.43
118	Sn	1663.50	P	17.33	1.04
121	Sb	2139.14	P	94.85	4.43
137	Ba	52.22	P	1.93	3.69
159	Tb	1047627.00	M	2977.00	0.28
165	Ho	1003648.00	P	8450.00	0.84
205	Tl	97.78	P	24.12	24.67
206	(Pb)	1154.54	P	61.68	5.34
207	(Pb)	992.30	P	62.93	6.34
208	Pb	4438.23	P	249.90	5.63

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\005CALS.D\006CALS.D#
Date Acquired: May 2 2011 11:10 am
Operator: SDM
Sample Name: 110502 Standard 1
Misc Info:
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:08 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1468675.00	A	14030.00	0.96	0.0000
7 (Li)	87322.65	P	117.90	0.14	0.0000
9 Be	821.16	P	50.92	6.20	0.0000
11 B	1225.65	P	47.42	3.87	0.0000
23 Na	15173.71	P	63.54	0.42	0.0000
24 Mg	802.27	P	24.58	3.06	0.0000
27 Al	150.01	P	43.33	28.89	0.0000
39 K	14716.72	P	897.60	6.10	0.0000
44 Ca	166.99	P	15.09	9.04	0.0000
45 Sc	755962.31	P	5173.00	0.68	0.0000
45 Sc	22360.78	P	219.20	0.98	0.0000
45 Sc	1175276.00	A	11430.00	0.97	0.0000
47 Ti	5.33	P	2.31	43.29	0.0000
51 V	208.00	P	9.33	4.49	0.0000
52 Cr	153.34	P	8.00	5.22	0.0000
55 Mn	69.33	P	12.72	18.35	0.0000
56 Fe	6400.15	P	286.20	4.47	0.0000
59 Co	475.13	P	23.90	5.03	0.0000
60 Ni	69.78	P	5.39	7.72	0.0000
63 Cu	944.93	P	47.38	5.01	0.0000
65 Cu	412.90	P	20.24	4.90	0.0000
66 Zn	102.22	P	6.71	6.57	0.0000
72 Ge	146069.50	P	470.60	0.32	0.0000
72 Ge	10036.53	P	143.80	1.43	0.0000
72 Ge	192193.80	P	1600.00	0.83	0.0000
75 As	25.33	P	0.67	2.63	0.0000
78 Se	38.44	P	2.22	5.77	0.0000
78 Se	3.33	P	1.67	50.01	0.0000
88 Sr	53.34	P	6.67	12.50	0.0000
88 Sr	1396.79	P	135.80	9.72	0.0000
95 Mo	452.25	P	30.06	6.65	0.0000
106 (Cd)	74.45	P	16.44	22.08	0.0000
107 Ag	330.02	P	25.17	7.63	0.0000
108 (Cd)	68.89	P	10.18	14.78	0.0000
111 Cd	112.43	P	15.71	13.97	0.0000
115 In	950438.13	P	3868.00	0.41	0.0000
118 Sn	1213.43	P	21.87	1.80	0.0000
121 Sb	2368.06	P	85.28	3.60	0.0000
137 Ba	175.56	P	15.03	8.56	0.0000
159 Tb	1037516.00	P	7461.00	0.72	0.0000
165 Ho	999843.81	P	11120.00	1.11	0.0000
205 Tl	716.71	P	42.56	5.94	0.0000
206 (Pb)	597.81	P	22.20	3.71	0.0000
207 (Pb)	544.48	P	22.20	4.08	0.0000
208 Pb	2360.17	P	44.85	1.90	0.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1468675.50	0.96	1481195.40	99.2	70 -	120	
45 Sc	755962.25	0.68	772553.25	97.9	70 -	120	
45 Sc	22360.78	0.98	22503.75	99.4	70 -	120	
45 Sc	1175275.90	0.97	1185323.00	99.2	70 -	120	
72 Ge	146069.48	0.32	148368.02	98.5	70 -	120	
72 Ge	10036.53	1.43	10084.80	99.5	70 -	120	
72 Ge	192193.81	0.83	194175.66	99.0	70 -	120	
115 In	950438.06	0.41	966828.31	98.3	70 -	120	
159 Tb	1037515.90	0.72	1047627.10	99.0	70 -	120	
165 Ho	999843.88	1.11	1003648.30	99.6	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.B\005CALS.D\005CALS.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\11E02k00.B\007CALS.D\007CALS.D#
Date Acquired: May 2 2011 11:16 am
Operator: SDM
Sample Name: 110502 Standard 2
Misc Info:
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:14 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1430185.00	A	12420.00	0.87	0.0000
7 (Li)	86209.19	P	170.40	0.20	-1.0000
9 Be	6061.44	P	158.40	2.61	-1.0000
11 B	4265.19	P	112.10	2.63	1.0000
23 Na	21484.93	P	346.00	1.61	1.0000
24 Mg	7080.82	P	142.30	2.01	1.0000
27 Al	984.51	P	63.37	6.44	1.0000
39 K	16450.80	P	741.90	4.51	1.0000
44 Ca	344.16	P	61.44	17.85	-1.0000
45 Sc	753659.13	P	5010.00	0.66	0.0000
45 Sc	22490.98	P	90.44	0.40	0.0000
45 Sc	1158563.00	A	9789.00	0.84	0.0000
47 Ti	28.00	P	7.06	25.20	1.0000
51 V	922.27	P	27.01	2.93	1.0000
52 Cr	1100.50	P	56.01	5.09	1.0000
55 Mn	495.13	P	19.15	3.87	1.0000
56 Fe	20680.11	P	222.00	1.07	1.0000
59 Co	2018.39	P	54.31	2.69	-1.0000
60 Ni	531.13	P	39.02	7.35	1.0000
63 Cu	2039.73	P	51.99	2.55	1.0000
65 Cu	960.04	P	52.53	5.47	-1.0000
66 Zn	256.89	P	5.05	1.97	-1.0000
72 Ge	147862.80	P	1182.00	0.80	0.0000
72 Ge	10131.06	P	139.60	1.38	0.0000
72 Ge	191630.50	P	810.40	0.42	0.0000
75 As	116.22	P	2.50	2.15	1.0000
78 Se	208.11	P	3.50	1.68	1.0000
78 Se	7.33	P	1.86	25.31	1.0000
88 Sr	316.68	P	52.39	16.54	1.0000
88 Sr	11873.11	P	258.60	2.18	1.0000
95 Mo	2106.90	P	115.70	5.49	1.0000
106 (Cd)	137.78	P	41.41	30.05	1.0000
107 Ag	2584.77	P	114.50	4.43	1.0000
108 (Cd)	138.90	P	33.39	24.04	-1.0000
111 Cd	1084.72	P	49.04	4.52	1.0000
115 In	947865.63	P	11580.00	1.22	0.0000
118 Sn	3660.61	P	35.14	0.96	-1.0000
121 Sb	5835.88	P	58.55	1.00	1.0000
137 Ba	1422.35	P	30.26	2.13	1.0000
159 Tb	1025017.00	M	6595.00	0.64	0.0000
165 Ho	990665.19	P	4530.00	0.46	0.0000
205 Tl	6399.56	P	227.80	3.56	1.0000
206 (Pb)	2452.54	P	164.10	6.69	-1.0000
207 (Pb)	2089.13	P	144.60	6.92	-1.0000
208 Pb	9882.93	P	66.71	0.68	-1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1430185.40	0.87	1481195.40	96.6	70 -	120	
45 Sc	753659.06	0.66	772553.25	97.6	70 -	120	
45 Sc	22490.98	0.40	22503.75	99.9	70 -	120	
45 Sc	1158563.00	0.84	1185323.00	97.7	70 -	120	
72 Ge	147862.75	0.80	148368.02	99.7	70 -	120	
72 Ge	10131.06	1.38	10084.80	100.5	70 -	120	
72 Ge	191630.50	0.42	194175.66	98.7	70 -	120	
115 In	947865.56	1.22	966828.31	98.0	70 -	120	
159 Tb	1025017.10	0.64	1047627.10	97.8	70 -	120	
165 Ho	990665.25	0.46	1003648.30	98.7	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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\11E02k00.B\008CALS.D\008CALS.D#
Date Acquired: May 2 2011 11:23 am
Operator: SDM
Sample Name: 110502 Standard 3
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:20 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1401756.00	A	13650.00	0.97	0.0000
7 (Li)	83389.09	P	468.10	0.56	-0.8450
9 Be	285050.91	P	2539.00	0.89	0.9500
11 B	165191.41	P	2233.00	1.35	0.9999
23 Na	375045.41	P	2172.00	0.58	0.9999
24 Mg	349868.81	P	4990.00	1.43	1.0000
27 Al	45017.86	P	671.30	1.49	0.9979
39 K	89164.42	P	880.50	0.99	0.9995
44 Ca	8541.33	P	64.61	0.76	0.9589
45 Sc	744781.31	P	6469.00	0.87	0.0000
45 Sc	22425.70	P	342.60	1.53	0.0000
45 Sc	1152631.00	A	10100.00	0.88	0.0000
47 Ti	1213.85	P	16.13	1.33	0.9997
51 V	41194.38	P	136.30	0.33	0.9999
52 Cr	53287.62	P	600.20	1.13	1.0000
55 Mn	22009.61	P	132.80	0.60	1.0000
56 Fe	804565.31	P	4640.00	0.58	0.9999
59 Co	84355.97	P	418.30	0.50	0.9356
60 Ni	24602.71	P	120.00	0.49	0.9999
63 Cu	67156.14	P	655.30	0.98	0.9980
65 Cu	32459.07	P	37.46	0.12	0.9944
66 Zn	8718.27	P	115.80	1.33	0.9336
72 Ge	146403.41	P	543.50	0.37	0.0000
72 Ge	10068.41	P	144.30	1.43	0.0000
72 Ge	190630.41	P	1485.00	0.78	0.0000
75 As	5367.56	P	87.96	1.64	0.9999
78 Se	9772.87	P	62.94	0.64	1.0000
78 Se	238.78	P	2.91	1.22	0.9771
88 Sr	15437.70	P	160.50	1.04	0.9998
88 Sr	575360.38	P	1357.00	0.24	1.0000
95 Mo	98265.07	P	869.00	0.88	0.9999
106 (Cd)	5227.84	P	181.70	3.48	0.9971
107 Ag	126009.50	P	1681.00	1.33	1.0000
108 (Cd)	3771.74	P	74.59	1.98	0.9715
111 Cd	54432.68	P	333.60	0.61	0.9999
115 In	933658.81	P	6553.00	0.70	0.0000
118 Sn	141610.00	P	1012.00	0.71	0.9684
121 Sb	192816.30	P	4866.00	2.52	0.9996
137 Ba	68098.11	P	752.00	1.10	1.0000
159 Tb	1025523.00	P	6642.00	0.65	0.0000
165 Ho	989721.81	P	2312.00	0.23	0.0000
205 Tl	325512.91	P	2223.00	0.68	1.0000
206 (Pb)	111215.20	P	873.40	0.79	0.9258
207 (Pb)	97300.20	P	259.10	0.27	0.9299
208 Pb	441847.81	P	1009.00	0.23	0.9391

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1401755.60	0.97	1481195.40	94.6	70 -	120	
45 Sc	744781.38	0.87	772553.25	96.4	70 -	120	
45 Sc	22425.70	1.53	22503.75	99.7	70 -	120	
45 Sc	1152631.30	0.88	1185323.00	97.2	70 -	120	
72 Ge	146403.39	0.37	148368.02	98.7	70 -	120	
72 Ge	10068.41	1.43	10084.80	99.8	70 -	120	
72 Ge	190630.44	0.78	194175.66	98.2	70 -	120	
115 In	933658.81	0.70	956828.31	96.6	70 -	120	
159 Tb	1025523.30	0.65	1047627.10	97.9	70 -	120	
165 Ho	989721.81	0.23	1003648.30	98.6	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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\11E02k00.B\009CALS.D\009CALS.D#
Date Acquired: May 2 2011 11:29 am
Operator: SDM
Sample Name: 110502 Standard 4
Misc Info:
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:27 am
Sample Type: CalStd
Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean		SD	RSD(%)	Cal Coef
6 Li	1349488.00	A	15250.00	1.13	0.0000
7 (Li)	81319.84	P	564.30	0.69	-0.8752
9 Be	560688.00	P	4833.00	0.86	1.0000
11 B	323366.31	P	1547.00	0.48	1.0000
23 Na	723789.69	P	1011.00	0.14	1.0000
24 Mg	690336.31	P	4221.00	0.61	1.0000
27 Al	89429.48	P	845.60	0.95	1.0000
39 K	162493.20	P	1552.00	0.96	1.0000
44 Ca	16760.00	P	170.10	1.01	1.0000
45 Sc	730077.69	P	4545.00	0.62	0.0000
45 Sc	22387.49	P	175.70	0.78	0.0000
45 Sc	1136642.00	A	8023.00	0.71	0.0000
47 Ti	2370.89	P	31.36	1.32	1.0000
51 V	81965.06	P	691.20	0.84	1.0000
52 Cr	105329.10	P	265.30	0.25	1.0000
55 Mn	43520.67	P	254.00	0.58	1.0000
56 Fe	1558293.00	A	14040.00	0.90	1.0000
59 Co	164514.80	P	507.70	0.31	1.0000
60 Ni	48369.85	P	750.00	1.55	1.0000
63 Cu	131106.30	P	1104.00	0.84	1.0000
65 Cu	63332.92	P	148.90	0.24	1.0000
66 Zn	17073.29	P	175.10	1.03	1.0000
72 Ge	144673.80	P	664.00	0.46	0.0000
72 Ge	10174.04	P	181.80	1.79	0.0000
72 Ge	188402.20	P	1150.00	0.61	0.0000
75 As	10626.69	P	129.10	1.21	1.0000
78 Se	19464.45	P	84.78	0.44	1.0000
78 Se	480.45	P	13.83	2.88	1.0000
88 Sr	30335.22	P	94.96	0.31	1.0000
88 Sr	1129524.00	A	2809.00	0.25	1.0000
95 Mo	196271.41	P	1129.00	0.58	1.0000
106 (Cd)	10231.84	P	140.80	1.38	1.0000
107 Ag	249977.00	P	2136.00	0.85	1.0000
108 (Cd)	7427.78	P	206.80	2.78	1.0000
111 Cd	107992.40	P	1177.00	1.09	1.0000
115 In	918516.81	P	6713.00	0.73	0.0000
118 Sn	281529.81	P	1017.00	0.36	1.0000
121 Sb	405392.41	P	3011.00	0.74	1.0000
137 Ba	134735.00	P	1583.00	1.17	1.0000
159 Tb	1023599.00	P	13970.00	1.36	0.0000
165 Ho	984473.00	P	13670.00	1.39	0.0000
205 Tl	644750.88	P	3588.00	0.56	1.0000
206 (Pb)	220179.00	P	1565.00	0.71	1.0000
207 (Pb)	194047.59	P	2821.00	1.45	1.0000
208 Pb	878419.69	P	8142.00	0.93	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1349488.30	1.13	1481195.40	91.1	70 -	120	
45 Sc	730077.75	0.62	772553.25	94.5	70 -	120	
45 Sc	22387.49	0.78	22503.75	99.5	70 -	120	
45 Sc	1136642.30	0.71	1185323.00	95.9	70 -	120	
72 Ge	144673.83	0.46	148368.02	97.5	70 -	120	
72 Ge	10174.04	1.79	10084.80	100.9	70 -	120	
72 Ge	188402.23	0.61	194175.66	97.0	70 -	120	
115 In	918516.75	0.73	966828.31	95.0	70 -	120	
159 Tb	1023599.00	1.36	1047627.10	97.7	70 -	120	
165 Ho	984473.00	1.39	1003648.30	98.1	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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\11E02k00.B\010_QCS.D\010_QCS.D#
Date Acquired: May 2 2011 11:35 am
Operator: SDM
Sample Name: ICV 110502
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	96.89	ug/l	1.11	100.00	90 -	110	
11 B	96.54	ug/l	0.49	100.00	90 -	110	
23 Na	2402.00	ug/l	0.14	2500.00	90 -	110	
24 Mg	2422.00	ug/l	0.26	2500.00	90 -	110	
27 Al	2400.00	ug/l	0.96	2500.00	90 -	110	
39 K	2375.00	ug/l	0.53	2500.00	90 -	110	
44 Ca	2641.00	ug/l	2.66	2500.00	90 -	110	
47 Ti	98.93	ug/l	2.82	100.00	90 -	110	
51 V	95.52	ug/l	1.10	100.00	90 -	110	
52 Cr	95.87	ug/l	1.27	100.00	90 -	110	
55 Mn	96.78	ug/l	0.66	100.00	90 -	110	
56 Fe	2384.00	ug/l	0.92	2500.00	90 -	110	
59 Co	96.20	ug/l	0.32	100.00	90 -	110	
60 Ni	95.67	ug/l	0.24	100.00	90 -	110	
63 Cu	98.09	ug/l	1.01	100.00	90 -	110	
65 Cu	98.73	ug/l	2.11	100.00	90 -	110	
66 Zn	98.07	ug/l	2.42	100.00	90 -	110	
75 As	96.39	ug/l	1.55	100.00	90 -	110	
78 Se	97.56	ug/l	0.36	100.00	90 -	110	
78 Se	97.66	ug/l	2.56	100.00	90 -	110	
88 Sr	97.87	ug/l	1.88	100.00	90 -	110	
88 Sr	96.07	ug/l	1.83	100.00	90 -	110	
95 Mo	99.53	ug/l	0.36	100.00	90 -	110	
106 (Cd)	--------	ug/l	--------	100.00	90 -	110	
107 Ag	49.02	ug/l	1.01	50.00	90 -	110	
108 (Cd)	--------	ug/l	--------	100.00	90 -	110	
111 Cd	96.87	ug/l	0.39	100.00	90 -	110	
118 Sn	46.85	ug/l	3.95	50.00	90 -	110	
121 Sb	108.10	ug/l	1.02	100.00	90 -	110	
137 Ba	97.17	ug/l	0.83	100.00	90 -	110	
205 Tl	97.00	ug/l	1.45	100.00	90 -	110	
206 (Pb)	--------	ug/l	--------	100.00	90 -	110	
207 (Pb)	--------	ug/l	--------	100.00	90 -	110	
208 Pb	97.93	ug/l	1.42	100.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1335783.90	0.42	1481195.40	90.2	70 -	120	
45 Sc	725623.75	1.10	772553.25	93.9	70 -	120	
45 Sc	22678.31	0.32	22503.75	100.8	70 -	120	
45 Sc	1128855.80	0.87	1185323.00	95.2	70 -	120	
72 Ge	144318.58	1.44	148368.02	97.3	70 -	120	
72 Ge	10075.10	1.05	10084.80	99.9	70 -	120	
72 Ge	188634.97	0.16	194175.66	97.1	70 -	120	
115 In	920131.69	0.72	966828.31	95.2	70 -	120	
159 Tb	1018963.00	1.26	1047627.10	97.3	70 -	120	
165 Ho	985936.75	0.56	1003648.30	98.2	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\014_CCV.D\014_CCV.D#
Date Acquired: May 2 2011 12:00 pm
Operator: SDM
Sample Name: CCV 110502
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	49.35	ug/l	0.93	50.00	90 -	110	
11 B	49.87	ug/l	0.86	50.00	90 -	110	
23 Na	1241.00	ug/l	1.11	1250.00	90 -	110	
24 Mg	2475.00	ug/l	1.72	2500.00	90 -	110	
27 Al	989.70	ug/l	1.06	1000.00	90 -	110	
39 K	1002.00	ug/l	0.31	1000.00	90 -	110	
44 Ca	2525.00	ug/l	2.61	2500.00	90 -	110	
47 Ti	49.75	ug/l	0.95	50.00	90 -	110	
51 V	49.01	ug/l	1.24	50.00	90 -	110	
52 Cr	48.86	ug/l	0.57	50.00	90 -	110	
55 Mn	49.73	ug/l	1.53	50.00	90 -	110	
56 Fe	1002.00	ug/l	1.14	1000.00	90 -	110	
59 Co	49.25	ug/l	1.41	50.00	90 -	110	
60 Ni	49.21	ug/l	0.90	50.00	90 -	110	
63 Cu	49.31	ug/l	1.98	50.00	90 -	110	
65 Cu	49.75	ug/l	2.18	50.00	90 -	110	
66 Zn	49.60	ug/l	2.03	50.00	90 -	110	
75 As	49.71	ug/l	1.28	50.00	90 -	110	
78 Se	49.58	ug/l	1.35	50.00	90 -	110	
78 Se	52.32	ug/l	2.52	50.00	90 -	110	
88 Sr	50.60	ug/l	3.09	50.00	90 -	110	
88 Sr	50.11	ug/l	0.43	50.00	90 -	110	
95 Mo	49.96	ug/l	0.67	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	24.77	ug/l	0.97	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	48.99	ug/l	0.92	50.00	90 -	110	
118 Sn	49.12	ug/l	0.70	50.00	90 -	110	
121 Sb	47.68	ug/l	0.39	50.00	90 -	110	
137 Ba	49.82	ug/l	1.16	50.00	90 -	110	
205 Tl	49.19	ug/l	1.22	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	49.52	ug/l	0.60	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1344649.40	1.04	1481195.40	90.8	70 -	120	
45 Sc	717349.13	0.85	772553.25	92.9	70 -	120	
45 Sc	22973.25	0.92	22503.75	102.1	70 -	120	
45 Sc	1128732.50	0.60	1185323.00	95.2	70 -	120	
72 Ge	145122.69	0.59	148368.02	97.8	70 -	120	
72 Ge	10205.54	1.77	10084.80	101.2	70 -	120	
72 Ge	187705.38	0.29	194175.66	96.7	70 -	120	
115 In	926772.75	0.42	966828.31	95.9	70 -	120	
159 Tb	1032352.70	0.24	1047627.10	98.5	70 -	120	
165 Ho	991023.56	0.42	1003648.30	98.7	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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\11E02k00.B\017_CCB.D\017_CCB.D#
Date Acquired: May 2 2011 12:19 pm
Operator: SDM
Sample Name: ICB 110502
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.34 ug/l	0.69	0.12	
11 B	0.04 ug/l	77.63	15.00	
23 Na	-6.30 ug/l	4.27	77.10	
24 Mg	-0.49 ug/l	14.60	7.50	
27 Al	-2.23 ug/l	11.23	3.96	
39 K	-1.35 ug/l	887.82	19.20	
44 Ca	-34.07 ug/l	11.67	90.00	
47 Ti	-0.13 ug/l	22.68	0.78	
51 V	-0.15 ug/l	3.40	0.21	
52 Cr	-0.01 ug/l	12.67	0.12	
55 Mn	-0.02 ug/l	24.23	0.18	
56 Fe	-4.85 ug/l	1.51	40.80	
59 Co	-0.50 ug/l	0.95	0.09	
60 Ni	-0.02 ug/l	76.24	0.48	
63 Cu	-0.59 ug/l	2.24	0.39	
65 Cu	-0.57 ug/l	3.62	0.39	
66 Zn	-0.49 ug/l	17.95	6.90	
75 As	-0.06 ug/l	38.29	0.27	
78 Se	-0.03 ug/l	40.01	0.30	
78 Se	0.30 ug/l	113.01	0.30	Fail
88 Sr	0.02 ug/l	70.65	0.03	
88 Sr	0.00 ug/l	119.70	0.03	
95 Mo	-0.01 ug/l	202.47	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	52.91	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.03 ug/l	47.55	0.06	
118 Sn	-0.51 ug/l	0.51	0.30	
121 Sb	-0.39 ug/l	2.19	0.03	
137 Ba	-0.01 ug/l	9.53	0.12	
205 Tl	0.01 ug/l	5.17	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.44 ug/l	0.08	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1227384.00	0.67	1481195.40	82.9	70 - 120	
45 Sc	692659.75	0.95	772553.25	89.7	70 - 120	
45 Sc	24093.87	0.98	22503.75	107.1	70 - 120	
45 Sc	1125885.00	1.31	1185323.00	95.0	70 - 120	
72 Ge	145390.34	0.57	148368.02	98.0	70 - 120	
72 Ge	10828.22	1.54	10084.80	107.4	70 - 120	
72 Ge	191586.98	0.06	194175.66	98.7	70 - 120	
115 In	955730.69	0.50	966828.31	98.9	70 - 120	
159 Tb	1062170.50	0.66	1047627.10	101.4	70 - 120	
165 Ho	1016154.50	0.89	1003648.30	101.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\018_CCB.D\018_CCB.D#
Date Acquired: May 2 2011 12:25 pm
Operator: SDM
Sample Name: CCB 110502
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.34 ug/l	0.46	0.12	
11 B	0.00 ug/l	380.47	15.00	
23 Na	-6.64 ug/l	4.61	77.10	
24 Mg	-0.48 ug/l	35.85	7.50	
27 Al	-1.97 ug/l	12.36	3.96	
39 K	-2.80 ug/l	425.10	19.20	
44 Ca	-32.08 ug/l	5.46	90.00	
47 Ti	-0.08 ug/l	37.00	0.78	
51 V	-0.14 ug/l	2.54	0.21	
52 Cr	-0.01 ug/l	180.73	0.12	
55 Mn	-0.01 ug/l	101.62	0.18	
56 Fe	-4.80 ug/l	1.45	40.80	
59 Co	-0.50 ug/l	0.31	0.09	
60 Ni	-0.02 ug/l	15.35	0.48	
63 Cu	-0.59 ug/l	5.42	0.39	
65 Cu	-0.59 ug/l	4.21	0.39	
66 Zn	-0.39 ug/l	4.67	6.90	
75 As	-0.08 ug/l	10.75	0.27	
78 Se	-0.04 ug/l	20.19	0.30	
78 Se	0.17 ug/l	57.01	0.30	
88 Sr	0.04 ug/l	104.98	0.03	Fail
88 Sr	0.00 ug/l	94.77	0.03	
95 Mo	-0.04 ug/l	18.15	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	-0.01 ug/l	48.57	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.03 ug/l	11.96	0.06	
118 Sn	-0.51 ug/l	0.73	0.30	
121 Sb	-0.43 ug/l	0.41	0.03	
137 Ba	-0.02 ug/l	0.54	0.12	
205 Tl	0.00 ug/l	279.55	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.43 ug/l	0.67	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1237673.90	0.96	1481195.40	83.6	70 - 120	
45 Sc	703520.75	0.70	772553.25	91.1	70 - 120	
45 Sc	23991.51	0.61	22503.75	106.6	70 - 120	
45 Sc	1104649.60	1.46	1185323.00	93.2	70 - 120	
72 Ge	145951.42	1.00	148368.02	98.4	70 - 120	
72 Ge	10735.56	0.97	10084.80	106.5	70 - 120	
72 Ge	190508.38	0.94	194175.66	98.1	70 - 120	
115 In	937055.56	0.48	966828.31	96.9	70 - 120	
159 Tb	1027731.80	0.07	1047627.10	98.1	70 - 120	
165 Ho	993367.88	1.03	1003648.30	99.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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\11E02k00.B\019SMPL.D\019SMPL.D#
Date Acquired: May 2 2011 12:31 pm
Operator: SDM
Sample Name: LDR 110502
Misc Info:
Vial Number: 2101
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	914.80 ug/l	914.80	1.68	1000	
11 B	984.30 ug/l	984.30	1.31	1000	
23 Na	23540.00 ug/l	23540.00	0.94	25000	
24 Mg	45090.00 ug/l	45090.00	0.48	50000	
27 Al	19150.00 ug/l	19150.00	0.77	20000	
39 K	18970.00 ug/l	18970.00	0.87	20000	
44 Ca	49620.00 ug/l	49620.00	0.57	50000	
47 Ti	983.20 ug/l	983.20	0.84	1000	
51 V	967.70 ug/l	967.70	0.44	1000	
52 Cr	924.70 ug/l	924.70	1.25	1000	
55 Mn	957.30 ug/l	957.30	0.69	1000	
56 Fe	18140.00 ug/l	18140.00	1.04	20000	
59 Co	922.20 ug/l	922.20	1.11	1000	
60 Ni	905.60 ug/l	905.60	1.42	1000	
63 Cu	891.60 ug/l	891.60	0.82	1000	
65 Cu	916.80 ug/l	916.80	1.06	1000	
66 Zn	919.10 ug/l	919.10	0.88	1000	
75 As	969.30 ug/l	969.30	1.14	1000	
78 Se	962.70 ug/l	962.70	0.51	1000	
78 Se	960.50 ug/l	960.50	2.26	1000	
88 Sr	973.70 ug/l	973.70	1.17	1000	
88 Sr	923.20 ug/l	923.20	1.88	1000	
95 Mo	980.40 ug/l	980.40	1.26	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	431.20 ug/l	431.20	1.15	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	957.70 ug/l	957.70	1.45	1000	
118 Sn	972.00 ug/l	972.00	0.73	1000	
121 Sb	1003.00 ug/l	1003.00	0.99	1000	>Cal
137 Ba	996.40 ug/l	996.40	1.28	1000	
205 Tl	899.00 ug/l	899.00	1.03	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	917.40 ug/l	917.40	0.74	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1176647.60	1.31	1481195.40	79.4	70 - 120	
45 Sc	685705.69	0.26	772553.25	88.8	70 - 120	
45 Sc	22072.23	1.23	22503.75	98.1	70 - 120	
45 Sc	1075038.40	1.69	1185323.00	90.7	70 - 120	
72 Ge	139874.48	0.80	148368.02	94.3	70 - 120	
72 Ge	9982.79	0.48	10084.80	99.0	70 - 120	
72 Ge	181640.00	1.33	194175.66	93.5	70 - 120	
115 In	864441.94	0.64	966828.31	89.4	70 - 120	
159 Tb	990243.44	0.39	1047627.10	94.5	70 - 120	
165 Ho	970029.38	0.33	1003648.30	96.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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\11E02k00.B\021SMPL.D\021SMPL.D#
Date Acquired: May 2 2011 12:43 pm
Operator: SDM
Sample Name: ICSA 110502
Misc Info:
Vial Number: 2102
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	7.51	1000	
11 B	3.88	ug/l	3.88	2.31	1000	
23 Na	89670.00	ug/l	89670.00	0.29	25000	>Cal
24 Mg	86980.00	ug/l	86980.00	0.51	50000	>Cal
27 Al	89300.00	ug/l	89300.00	0.28	20000	>Cal
39 K	88010.00	ug/l	88010.00	0.63	20000	>Cal
44 Ca	91010.00	ug/l	91010.00	0.27	50000	>Cal
47 Ti	1911.00	ug/l	1911.00	0.74	1000	>Cal
51 V	0.38	ug/l	0.38	5.04	1000	
52 Cr	0.74	ug/l	0.74	5.47	1000	
55 Mn	5.26	ug/l	5.26	2.44	1000	
56 Fe	86480.00	ug/l	86480.00	0.84	20000	>Cal
59 Co	0.97	ug/l	0.97	2.68	1000	
60 Ni	1.29	ug/l	1.29	1.48	1000	
63 Cu	0.73	ug/l	0.73	4.79	1000	
65 Cu	0.78	ug/l	0.78	11.34	1000	
66 Zn	0.98	ug/l	0.98	13.17	1000	
75 As	0.87	ug/l	0.87	12.58	1000	
78 Se	0.62	ug/l	0.62	4.17	1000	
78 Se	1.02	ug/l	1.02	51.49	1000	
88 Sr	1.30	ug/l	1.30	4.09	1000	
88 Sr	1.21	ug/l	1.21	1.75	1000	
95 Mo	1833.00	ug/l	1833.00	0.96	1000	>Cal
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	0.25	ug/l	0.25	6.92	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.55	ug/l	0.55	29.10	1000	
118 Sn	1.62	ug/l	1.62	4.86	1000	
121 Sb	3.63	ug/l	3.63	5.84	1000	
137 Ba	2.81	ug/l	2.81	3.70	1000	
205 Tl	0.58	ug/l	0.58	2.89	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	2.83	ug/l	2.83	0.19	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1174985.30	1.52	1481195.40	79.3	70 - 120	
45 Sc	689546.69	0.50	772553.25	89.3	70 - 120	
45 Sc	22507.31	1.08	22503.75	100.0	70 - 120	
45 Sc	1103591.30	0.53	1185323.00	93.1	70 - 120	
72 Ge	140122.19	0.94	148368.02	94.4	70 - 120	
72 Ge	10126.98	2.47	10084.80	100.4	70 - 120	
72 Ge	189309.50	1.00	194175.66	97.5	70 - 120	
115 In	853366.50	0.43	966828.31	88.3	70 - 120	
159 Tb	972120.19	0.36	1047627.10	92.8	70 - 120	
165 Ho	937173.25	0.63	1003648.30	93.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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\11E02k00.B\022ICSB.D\022ICSB.D#
Date Acquired: May 2 2011 12:50 pm
Acq. Method: 62A0502.M
Operator: SDM
Sample Name: ICSAB 110502
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal. Update: May 02 2011 11:33 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	249.40	0.50	250	99.8	80 - 120	
11 B	45	3	-3.02	2.82	---		-	
23 Na	45	2	94450.00	1.44	---		-	
24 Mg	45	2	90390.00	1.66	---		-	
27 Al	45	2	90280.00	0.64	---		-	
39 K	45	2	90360.00	0.54	---		-	
44 Ca	45	2	92270.00	0.77	---		-	
47 Ti	45	2	1944.00	0.39	2000	97.2	80 - 120	
51 V	45	2	261.00	1.02	250	104.4	80 - 120	
52 Cr	45	2	249.70	1.33	250	99.9	80 - 120	
55 Mn	45	2	256.10	1.82	250	102.4	80 - 120	
56 Fe	45	2	88690.00	1.19	---		-	
59 Co	45	2	246.80	1.52	250	98.7	80 - 120	
60 Ni	45	2	479.80	1.47	500	96.0	80 - 120	
63 Cu	72	2	243.10	1.38	250	97.2	80 - 120	
65 Cu	72	2	244.20	1.00	250	97.7	80 - 120	
66 Zn	72	2	475.20	0.41	500	95.0	80 - 120	
75 As	72	2	263.40	0.06	250	105.4	80 - 120	
78 Se	72	1	261.10	0.34	250	104.4	80 - 120	
78 Se	72	2	253.00	1.35	250	101.2	80 - 120	
88 Sr	72	2	1.39	3.78	---		-	
88 Sr	72	3	1.16	3.17	---		-	
95 Mo	72	3	2087.00	0.44	2000	104.4	80 - 120	
106 (Cd)	---	3	--------	--------	---		-	
107 Ag	115	3	420.80	2.58	500	84.2	80 - 120	
108 (Cd)	---	3	--------	--------	---		-	
111 Cd	115	3	513.10	1.04	500	102.6	80 - 120	
118 Sn	115	3	0.68	4.94	---		-	
121 Sb	115	3	274.80	0.62	250	109.9	80 - 120	
137 Ba	115	3	268.20	0.66	250	107.3	80 - 120	
205 Tl	159	3	239.90	0.05	250	96.0	80 - 120	
206 (Pb)	---	3	--------	--------	---		-	
207 (Pb)	---	3	--------	--------	---		-	
208 Pb	159	3	479.80	0.59	500	96.0	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	1284029	0.82	1481195	86.7	70 - 120	
45 Sc	1	720228	0.35	772553	93.2	70 - 120	
45 Sc	2	22153	2.12	22504	98.4	70 - 120	
45 Sc	3	1130487	0.76	1185323	95.4	70 - 120	
72 Ge	1	147323	0.41	148369	99.3	70 - 120	
72 Ge	2	9923	1.29	10085	98.4	70 - 120	
72 Ge	3	191136	0.80	194176	98.4	70 - 120	
115 In	3	858997	0.38	966828	88.8	70 - 120	
159 Tb	3	967743	0.28	1047627	92.4	70 - 120	
165 Ho	3	928603	0.49	1003648	92.5	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
Tune File# 2 c:\icpchem\1\7500\he.u
Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.B\005CALB.D\005CALB.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\11E02k00.B\024_CCV.D\024_CCV.D#
Date Acquired: May 2 2011 01:02 pm
Operator: SDM
Sample Name: CCV 110502
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	50.00 ug/l	1.92	50.00	90 - 110	
11 B	52.10 ug/l	1.95	50.00	90 - 110	
23 Na	1272.00 ug/l	0.38	1250.00	90 - 110	
24 Mg	2447.00 ug/l	0.84	2500.00	90 - 110	
27 Al	959.50 ug/l	1.37	1000.00	90 - 110	
39 K	1006.00 ug/l	1.06	1000.00	90 - 110	
44 Ca	2514.00 ug/l	2.01	2500.00	90 - 110	
47 Ti	45.90 ug/l	1.37	50.00	90 - 110	
51 V	49.71 ug/l	0.53	50.00	90 - 110	
52 Cr	48.64 ug/l	0.68	50.00	90 - 110	
55 Mn	47.88 ug/l	0.35	50.00	90 - 110	
56 Fe	968.30 ug/l	0.85	1000.00	90 - 110	
59 Co	49.11 ug/l	0.55	50.00	90 - 110	
60 Ni	48.53 ug/l	1.03	50.00	90 - 110	
63 Cu	48.39 ug/l	0.58	50.00	90 - 110	
65 Cu	48.46 ug/l	0.46	50.00	90 - 110	
66 Zn	48.25 ug/l	1.04	50.00	90 - 110	
75 As	50.15 ug/l	1.41	50.00	90 - 110	
78 Se	49.42 ug/l	0.73	50.00	90 - 110	
78 Se	44.96 ug/l	1.82	50.00	90 - 110	~~Fail~~ Hm 9/9/11
88 Sr	48.03 ug/l	1.52	50.00	90 - 110	
88 Sr	50.26 ug/l	0.92	50.00	90 - 110	
95 Mo	49.66 ug/l	1.53	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	24.28 ug/l	1.26	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	48.96 ug/l	1.70	50.00	90 - 110	
118 Sn	49.36 ug/l	1.47	50.00	90 - 110	
121 Sb	50.93 ug/l	1.27	50.00	90 - 110	
137 Ba	49.26 ug/l	1.52	50.00	90 - 110	
205 Tl	47.59 ug/l	0.87	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	1.37	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1464725.30	1.12	1481195.40	98.9	70 - 120	
45 Sc	768297.13	0.26	772553.25	99.4	70 - 120	
45 Sc	22983.63	1.36	22503.75	102.1	70 - 120	
45 Sc	1146890.30	2.21	1185323.00	96.8	70 - 120	
72 Ge	157198.36	0.38	148368.02	106.0	70 - 120	
72 Ge	10255.95	0.38	10084.80	101.7	70 - 120	
72 Ge	188580.63	1.15	194175.66	97.1	70 - 120	
115 In	900726.00	1.18	966828.31	93.2	70 - 120	
159 Tb	965682.44	1.48	1047627.10	92.2	70 - 120	
165 Ho	919940.44	1.79	1003648.30	91.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\028_CCB.D\028_CCB.D#
Date Acquired: May 2 2011 01:27 pm
Operator: SDM
Sample Name: CCB 110502
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.35 ug/l	0.27	0.12	
11 B	0.34 ug/l	7.04	15.00	
23 Na	2.29 ug/l	64.32	77.10	
24 Mg	0.28 ug/l	320.80	7.50	
27 Al	0.54 ug/l	249.54	3.96	
39 K	5.43 ug/l	297.86	19.20	
44 Ca	-39.75 ug/l	19.35	90.00	
47 Ti	-0.03 ug/l	434.23	0.78	
51 V	-0.13 ug/l	9.93	0.21	
52 Cr	-0.01 ug/l	38.06	0.12	
55 Mn	-0.01 ug/l	105.14	0.18	
56 Fe	-4.81 ug/l	1.35	40.80	
59 Co	-0.54 ug/l	1.16	0.09	
60 Ni	-0.03 ug/l	16.64	0.48	
63 Cu	-0.59 ug/l	1.52	0.39	
65 Cu	-0.58 ug/l	3.24	0.39	
66 Zn	-0.48 ug/l	13.05	6.90	
75 As	-0.07 ug/l	28.62	0.27	
78 Se	-0.03 ug/l	45.10	0.30	
78 Se	0.35 ug/l	48.09	0.30	Fail
88 Sr	0.00 ug/l	486.37	0.03	
88 Sr	0.00 ug/l	544.61	0.03	
95 Mo	0.21 ug/l	7.92	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	472.48	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.02 ug/l	45.26	0.06	
118 Sn	-0.50 ug/l	1.47	0.30	
121 Sb	-0.34 ug/l	3.88	0.03	
137 Ba	-0.01 ug/l	54.40	0.12	
205 Tl	0.00 ug/l	100.66	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.44 ug/l	1.78	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1321608.10	0.90	1481195.40	89.2	70 - 120	
45 Sc	734307.38	1.97	772553.25	95.0	70 - 120	
45 Sc	23854.23	2.15	22503.75	106.0	70 - 120	
45 Sc	1154757.50	1.68	1185323.00	97.4	70 - 120	
72 Ge	155883.38	0.65	148368.02	105.1	70 - 120	
72 Ge	10762.25	1.90	10084.80	106.7	70 - 120	
72 Ge	193900.63	0.95	194175.66	99.9	70 - 120	
115 In	938356.31	1.28	966828.31	97.1	70 - 120	
159 Tb	1020970.20	1.16	1047627.10	97.5	70 - 120	
165 Ho	973163.38	1.80	1003648.30	97.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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\11E02k00.B\041_CCV.D\041_CCV.D#
Date Acquired: May 2 2011 02:48 pm
Operator: SDM
Sample Name: CCV 110502
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	47.13 ug/l	0.81	50.00	90 - 110	
11 B	49.48 ug/l	0.72	50.00	90 - 110	
23 Na	1249.00 ug/l	1.11	1250.00	90 - 110	
24 Mg	2446.00 ug/l	1.08	2500.00	90 - 110	
27 Al	985.20 ug/l	1.52	1000.00	90 - 110	
39 K	1018.00 ug/l	1.70	1000.00	90 - 110	
44 Ca	2548.00 ug/l	1.33	2500.00	90 - 110	
47 Ti	47.91 ug/l	3.97	50.00	90 - 110	
51 V	48.81 ug/l	0.42	50.00	90 - 110	
52 Cr	47.51 ug/l	1.40	50.00	90 - 110	
55 Mn	48.42 ug/l	1.55	50.00	90 - 110	
56 Fe	954.80 ug/l	1.02	1000.00	90 - 110	
59 Co	47.80 ug/l	0.49	50.00	90 - 110	
60 Ni	47.39 ug/l	0.82	50.00	90 - 110	
63 Cu	47.95 ug/l	1.30	50.00	90 - 110	
65 Cu	47.74 ug/l	1.49	50.00	90 - 110	
66 Zn	47.56 ug/l	3.83	50.00	90 - 110	
75 As	49.28 ug/l	1.24	50.00	90 - 110	
78 Se	48.02 ug/l	0.87	50.00	90 - 110	
78 Se	49.19 ug/l	4.09	50.00	90 - 110	
88 Sr	48.99 ug/l	0.82	50.00	90 - 110	
88 Sr	49.32 ug/l	0.76	50.00	90 - 110	
95 Mo	47.68 ug/l	1.69	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	23.32 ug/l	1.60	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	47.94 ug/l	2.28	50.00	90 - 110	
118 Sn	48.39 ug/l	1.70	50.00	90 - 110	
121 Sb	46.04 ug/l	2.83	50.00	90 - 110	
137 Ba	48.62 ug/l	1.98	50.00	90 - 110	
205 Tl	47.67 ug/l	0.70	50.00	90 - 110	
206 (Pb)	-------- ug/l	--------	50.00	90 - 110	
207 (Pb)	-------- ug/l	--------	50.00	90 - 110	
208 Pb	47.53 ug/l	0.46	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1368745.00	0.11	1481195.40	92.4	70 - 120	
45 Sc	758791.75	0.18	772553.25	98.2	70 - 120	
45 Sc	23280.37	1.09	22503.75	103.5	70 - 120	
45 Sc	1125740.30	0.22	1185323.00	95.0	70 - 120	
72 Ge	154924.08	0.09	148368.02	104.4	70 - 120	
72 Ge	10303.03	1.44	10084.80	102.2	70 - 120	
72 Ge	187621.63	0.67	194175.66	96.6	70 - 120	
115 In	918432.00	1.08	966828.31	95.0	70 - 120	
159 Tb	1005223.90	0.48	1047627.10	96.0	70 - 120	
165 Ho	957845.06	0.28	1003648.30	95.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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\11E02k00.B\044_CCB.D\044_CCB.D#
Date Acquired: May 2 2011 03:07 pm
Operator: SDM
Sample Name: CCB 110502
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.35 ug/l	0.90	0.12	
11 B	0.32 ug/l	4.07	15.00	
23 Na	-3.76 ug/l	32.17	77.10	
24 Mg	0.05 ug/l	144.54	7.50	
27 Al	-1.92 ug/l	5.38	3.96	
39 K	14.40 ug/l	96.46	19.20	
44 Ca	-42.51 ug/l	6.89	90.00	
47 Ti	-0.08 ug/l	71.41	0.78	
51 V	-0.13 ug/l	8.28	0.21	
52 Cr	0.02 ug/l	10.38	0.12	
55 Mn	0.05 ug/l	61.31	0.18	
56 Fe	-4.76 ug/l	1.18	40.80	
59 Co	-0.53 ug/l	0.71	0.09	
60 Ni	-0.02 ug/l	24.38	0.48	
63 Cu	-0.59 ug/l	1.36	0.39	
65 Cu	-0.57 ug/l	3.21	0.39	
66 Zn	-0.43 ug/l	12.84	6.90	
75 As	-0.05 ug/l	26.77	0.27	
78 Se	0.01 ug/l	154.11	0.30	
78 Se	0.25 ug/l	88.90	0.30	
88 Sr	0.03 ug/l	212.29	0.03	
88 Sr	0.00 ug/l	393.91	0.03	
95 Mo	0.05 ug/l	37.28	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.00 ug/l	122.33	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.02 ug/l	60.16	0.06	
118 Sn	-0.50 ug/l	1.00	0.30	
121 Sb	-0.41 ug/l	2.01	0.03	
137 Ba	0.00 ug/l	120.74	0.12	
205 Tl	0.01 ug/l	63.28	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.46 ug/l	0.34	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1194249.60	2.29	1481195.40	80.6	70 - 120	
45 Sc	739819.69	0.54	772553.25	95.8	70 - 120	
45 Sc	24554.30	0.20	22503.75	109.1	70 - 120	
45 Sc	1112401.10	0.62	1185323.00	93.8	70 - 120	
72 Ge	152833.92	0.46	148368.02	103.0	70 - 120	
72 Ge	10919.04	1.01	10084.80	108.3	70 - 120	
72 Ge	189476.22	1.23	194175.66	97.6	70 - 120	
115 In	946269.56	0.96	966828.31	97.9	70 - 120	
159 Tb	1046208.10	0.74	1047627.10	99.9	70 - 120	
165 Ho	993892.31	0.91	1003648.30	99.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\089_CCV.D\089_CCV.D#
Date Acquired: May 2 2011 07:47 pm
Operator: SDM
Sample Name: CCV 110502
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	44.66 ug/l	2.01	50.00	90 - 110	Fail
11 B	50.31 ug/l	1.84	50.00	90 - 110	
23 Na	1248.00 ug/l	0.70	1250.00	90 - 110	
24 Mg	2392.00 ug/l	0.85	2500.00	90 - 110	
27 Al	924.60 ug/l	0.27	1000.00	90 - 110	
39 K	1037.00 ug/l	1.46	1000.00	90 - 110	
44 Ca	2375.00 ug/l	3.43	2500.00	90 - 110	
47 Ti	45.81 ug/l	2.70	50.00	90 - 110	
51 V	48.60 ug/l	1.26	50.00	90 - 110	
52 Cr	46.84 ug/l	0.51	50.00	90 - 110	
55 Mn	47.24 ug/l	1.03	50.00	90 - 110	
56 Fe	909.90 ug/l	0.39	1000.00	90 - 110	
59 Co	47.65 ug/l	0.16	50.00	90 - 110	
60 Ni	46.09 ug/l	1.08	50.00	90 - 110	
63 Cu	44.16 ug/l	1.96	50.00	90 - 110	Fail
65 Cu	44.52 ug/l	1.23	50.00	90 - 110	Fail
66 Zn	43.99 ug/l	1.32	50.00	90 - 110	Fail
75 As	47.27 ug/l	1.37	50.00	90 - 110	
78 Se	47.40 ug/l	8.65	50.00	90 - 110	
78 Se	42.93 ug/l	4.62	50.00	90 - 110	Fail
88 Sr	46.28 ug/l	2.10	50.00	90 - 110	
88 Sr	49.64 ug/l	1.32	50.00	90 - 110	
95 Mo	46.79 ug/l	0.94	50.00	90 - 110	
106 (Cd)	-------- ug/l	--------	50.00	90 - 110	
107 Ag	23.52 ug/l	1.25	25.00	90 - 110	
108 (Cd)	-------- ug/l	--------	50.00	90 - 110	
111 Cd	46.73 ug/l	0.47	50.00	90 - 110	
118 Sn	49.24 ug/l	0.90	50.00	90 - 110	
121 Sb	49.97 ug/l	0.55	50.00	90 - 110	
137 Ba	48.85 ug/l	1.44	50.00	90 - 110	
205 Tl	46.91 ug/l	0.54	50.00	90 - 110	
206 (Pb)	-------- ug/l	--------	50.00	90 - 110	
207 (Pb)	-------- ug/l	--------	50.00	90 - 110	
208 Pb	46.91 ug/l	0.88	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1385796.30	1.58	1481195.40	93.6	70 - 120	
45 Sc	762082.38	9.46	772553.25	98.6	70 - 120	
45 Sc	22563.34	0.65	22503.75	100.3	70 - 120	
45 Sc	1133241.60	1.13	1185323.00	95.6	70 - 120	
72 Ge	159532.67	7.74	148368.02	107.5	70 - 120	
72 Ge	10556.92	2.15	10084.80	104.7	70 - 120	
72 Ge	187808.05	0.87	194175.66	96.7	70 - 120	
115 In	922080.69	1.40	966828.31	95.4	70 - 120	
159 Tb	999279.50	0.58	1047627.10	95.4	70 - 120	
165 Ho	959310.88	1.10	1003648.30	95.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.B\005CALB.D\005CALB.D#

5 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\093_CCB.D\093_CCB.D#
Date Acquired: May 2 2011 08:12 pm
Operator: SDM
Sample Name: CCB 110502
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.34 ug/l	1.63	0.12	
11 B	1.61 ug/l	4.04	15.00	
23 Na	14.89 ug/l	13.19	77.10	
24 Mg	0.22 ug/l	26.48	7.50	
27 Al	-1.95 ug/l	10.04	3.96	
39 K	35.99 ug/l	41.98	19.20	Fail
44 Ca	-44.89 ug/l	17.34	90.00	
47 Ti	-0.13 ug/l	23.21	0.78	
51 V	-0.13 ug/l	1.18	0.21	
52 Cr	0.01 ug/l	24.92	0.12	
55 Mn	0.08 ug/l	6.70	0.18	
56 Fe	-4.74 ug/l	1.17	40.80	
59 Co	-0.52 ug/l	0.54	0.09	
60 Ni	-0.02 ug/l	39.57	0.48	
63 Cu	-0.51 ug/l	3.07	0.39	
65 Cu	-0.49 ug/l	2.43	0.39	
66 Zn	-0.36 ug/l	2.54	6.90	
75 As	-0.03 ug/l	51.35	0.27	
78 Se	0.03 ug/l	55.09	0.30	
78 Se	0.56 ug/l	18.88	0.30	Fail
88 Sr	0.07 ug/l	58.46	0.03	Fail
88 Sr	0.00 ug/l	9.75	0.03	
95 Mo	0.04 ug/l	14.47	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.06 ug/l	7.81	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.03 ug/l	57.55	0.06	
118 Sn	-0.48 ug/l	2.26	0.30	
121 Sb	-0.30 ug/l	4.55	0.03	
137 Ba	0.02 ug/l	37.57	0.12	
205 Tl	0.02 ug/l	12.93	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.46 ug/l	1.13	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1329182.10	0.75	1481195.40	89.7	70 - 120	
45 Sc	698962.69	7.11	772553.25	90.5	70 - 120	
45 Sc	24009.73	1.83	22503.75	106.7	70 - 120	
45 Sc	1150701.00	0.57	1185323.00	97.1	70 - 120	
72 Ge	153343.47	6.83	148368.02	103.4	70 - 120	
72 Ge	11168.11	0.70	10084.80	110.7	70 - 120	
72 Ge	194521.95	0.55	194175.66	100.2	70 - 120	
115 In	972437.44	1.63	966828.31	100.6	70 - 120	
159 Tb	1034617.20	0.85	1047627.10	98.8	70 - 120	
165 Ho	992751.75	1.15	1003648.30	98.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.B\005CALB.D\005CALB.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\11E02k00.B\105_CCV.D\105_CCV.D#
Date Acquired: May 2 2011 09:27 pm
Operator: SDM
Sample Name: CCV 110502
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	44.81	ug/l	1.71	50.00	90 -	110	Fail
11 B	48.97	ug/l	1.78	50.00	90 -	110	
23 Na	1279.00	ug/l	1.66	1250.00	90 -	110	
24 Mg	2386.00	ug/l	1.27	2500.00	90 -	110	
27 Al	922.60	ug/l	2.26	1000.00	90 -	110	
39 K	1028.00	ug/l	3.97	1000.00	90 -	110	
44 Ca	2292.00	ug/l	1.88	2500.00	90 -	110	
47 Ti	47.32	ug/l	4.60	50.00	90 -	110	
51 V	48.73	ug/l	0.45	50.00	90 -	110	
52 Cr	46.80	ug/l	2.47	50.00	90 -	110	
55 Mn	47.26	ug/l	2.26	50.00	90 -	110	
56 Fe	902.70	ug/l	1.42	1000.00	90 -	110	
59 Co	47.79	ug/l	1.73	50.00	90 -	110	
60 Ni	46.47	ug/l	1.03	50.00	90 -	110	
63 Cu	43.90	ug/l	1.55	50.00	90 -	110	Fail
65 Cu	44.60	ug/l	1.76	50.00	90 -	110	Fail
66 Zn	44.84	ug/l	1.87	50.00	90 -	110	Fail
75 As	46.80	ug/l	1.15	50.00	90 -	110	
78 Se	46.82	ug/l	0.32	50.00	90 -	110	
78 Se	42.67	ug/l	3.29	50.00	90 -	110	Fail
88 Sr	46.38	ug/l	3.75	50.00	90 -	110	
88 Sr	49.76	ug/l	1.85	50.00	90 -	110	
95 Mo	46.10	ug/l	1.30	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	23.00	ug/l	0.91	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	46.73	ug/l	1.33	50.00	90 -	110	
118 Sn	48.27	ug/l	0.36	50.00	90 -	110	
121 Sb	48.00	ug/l	0.68	50.00	90 -	110	
137 Ba	48.63	ug/l	0.38	50.00	90 -	110	
205 Tl	46.42	ug/l	0.57	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	46.45	ug/l	1.19	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range (%)		Flag
6 Li	1389349.50	2.10	1481195.40	93.8	70 -	120	
45 Sc	761461.25	0.59	772553.25	98.6	70 -	120	
45 Sc	22531.82	2.11	22503.75	100.1	70 -	120	
45 Sc	1129087.10	2.29	1185323.00	95.3	70 -	120	
72 Ge	159034.42	0.17	148368.02	107.2	70 -	120	
72 Ge	10454.99	1.78	10084.80	103.7	70 -	120	
72 Ge	187021.94	1.31	194175.66	96.3	70 -	120	
115 In	912188.31	1.20	966828.31	94.3	70 -	120	
159 Tb	979413.44	1.22	1047627.10	93.5	70 -	120	
165 Ho	931655.44	1.88	1003648.30	92.8	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.B\005CALB.D\005CALB.D#

5 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
Analytes: Fail
ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\109_CCB.D\109_CCB.D#
Date Acquired: May 2 2011 09:52 pm
Operator: SDM
Sample Name: CCB 110502
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.34 ug/l	0.82	0.12	
11 B	1.05 ug/l	1.74	15.00	
23 Na	24.28 ug/l	6.88	77.10	
24 Mg	0.52 ug/l	37.34	7.50	
27 Al	-2.15 ug/l	11.66	3.96	
39 K	38.66 ug/l	47.67	19.20	Fail
44 Ca	-46.64 ug/l	10.66	90.00	
47 Ti	-0.13 ug/l	22.55	0.78	
51 V	-0.13 ug/l	7.00	0.21	
52 Cr	0.01 ug/l	22.29	0.12	
55 Mn	0.19 ug/l	5.17	0.18	Fail
56 Fe	-4.68 ug/l	0.90	40.80	
59 Co	-0.51 ug/l	1.65	0.09	
60 Ni	-0.02 ug/l	61.45	0.48	
63 Cu	-0.53 ug/l	2.79	0.39	
65 Cu	-0.51 ug/l	1.96	0.39	
66 Zn	-0.46 ug/l	10.36	6.90	
75 As	-0.05 ug/l	34.41	0.27	
78 Se	0.02 ug/l	28.94	0.30	
78 Se	0.36 ug/l	45.60	0.30	Fail
88 Sr	0.09 ug/l	55.81	0.03	Fail
88 Sr	0.01 ug/l	21.84	0.03	
95 Mo	0.02 ug/l	56.77	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.02 ug/l	28.74	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.04 ug/l	29.99	0.06	
118 Sn	-0.47 ug/l	0.09	0.30	
121 Sb	-0.38 ug/l	1.91	0.03	
137 Ba	0.02 ug/l	6.74	0.12	
205 Tl	0.02 ug/l	10.05	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.45 ug/l	1.51	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1335285.00	1.30	1481195.40	90.1	70 - 120	
45 Sc	763563.56	0.80	772553.25	98.8	70 - 120	
45 Sc	23689.21	1.61	22503.75	105.3	70 - 120	
45 Sc	1158166.50	1.07	1185323.00	97.7	70 - 120	
72 Ge	162031.80	0.28	148368.02	109.2	70 - 120	
72 Ge	10980.20	1.39	10084.80	108.9	70 - 120	
72 Ge	196394.56	1.10	194175.66	101.1	70 - 120	
115 In	967852.50	0.84	966828.31	100.1	70 - 120	
159 Tb	1033617.10	2.10	1047627.10	98.7	70 - 120	
165 Ho	983232.06	0.76	1003648.30	98.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\121_CCV.D\121_CCV.D#
Date Acquired: May 2 2011 11:07 pm
Operator: SDM
Sample Name: CCV 110502
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	44.35	ug/l	1.23	50.00	90 -	110	Fail
11 B	47.87	ug/l	1.96	50.00	90 -	110	
23 Na	1292.00	ug/l	0.86	1250.00	90 -	110	
24 Mg	2382.00	ug/l	1.05	2500.00	90 -	110	
27 Al	929.00	ug/l	2.21	1000.00	90 -	110	
39 K	1029.00	ug/l	1.28	1000.00	90 -	110	
44 Ca	2356.00	ug/l	2.53	2500.00	90 -	110	
47 Ti	45.45	ug/l	5.71	50.00	90 -	110	
51 V	48.14	ug/l	0.60	50.00	90 -	110	
52 Cr	46.32	ug/l	0.88	50.00	90 -	110	
55 Mn	46.58	ug/l	1.66	50.00	90 -	110	
56 Fe	895.30	ug/l	0.64	1000.00	90 -	110	Fail
59 Co	47.33	ug/l	0.54	50.00	90 -	110	
60 Ni	45.95	ug/l	1.68	50.00	90 -	110	
63 Cu	44.39	ug/l	1.23	50.00	90 -	110	Fail
65 Cu	44.47	ug/l	0.80	50.00	90 -	110	Fail
66 Zn	43.96	ug/l	0.43	50.00	90 -	110	Fail
75 As	46.54	ug/l	0.22	50.00	90 -	110	
78 Se	43.15	ug/l	11.19	50.00	90 -	110	Fail
78 Se	41.60	ug/l	5.29	50.00	90 -	110	Fail
88 Sr	46.76	ug/l	2.01	50.00	90 -	110	
88 Sr	49.46	ug/l	1.40	50.00	90 -	110	
95 Mo	45.72	ug/l	0.60	50.00	90 -	110	
106 (Cd)	--------	ug/l	--------	50.00	90 -	110	
107 Ag	22.82	ug/l	1.45	25.00	90 -	110	
108 (Cd)	--------	ug/l	--------	50.00	90 -	110	
111 Cd	46.76	ug/l	2.05	50.00	90 -	110	
118 Sn	47.70	ug/l	1.84	50.00	90 -	110	
121 Sb	47.85	ug/l	1.60	50.00	90 -	110	
137 Ba	49.07	ug/l	1.99	50.00	90 -	110	
205 Tl	46.62	ug/l	1.93	50.00	90 -	110	
206 (Pb)	--------	ug/l	--------	50.00	90 -	110	
207 (Pb)	--------	ug/l	--------	50.00	90 -	110	
208 Pb	46.62	ug/l	1.77	50.00	90 -	110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)		Flag
6 Li	1370641.00	1.44	1481195.40	92.5	70 -	120	
45 Sc	799632.56	12.63	772553.25	103.5	70 -	120	
45 Sc	22326.35	1.51	22503.75	99.2	70 -	120	
45 Sc	1128155.80	1.77	1185323.00	95.2	70 -	120	
72 Ge	167347.05	9.92	148368.02	112.8	70 -	120	
72 Ge	10254.47	0.56	10084.80	101.7	70 -	120	
72 Ge	184931.66	1.51	194175.66	95.2	70 -	120	
115 In	897342.63	2.18	966828.31	92.8	70 -	120	
159 Tb	954024.94	1.83	1047627.10	91.1	70 -	120	
165 Ho	914798.25	1.10	1003648.30	91.1	70 -	120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.B\005CALB.D\005CALB.D#

7 :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\11E02k00.B\125_CCB.D\125_CCB.D#
Date Acquired: May 2 2011 11:32 pm
Operator: SDM
Sample Name: CCB 110502
Misc Info:
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	-------- ug/l	--------	#VALUE!	
9 Be	-0.35 ug/l	0.25	0.12	
11 B	0.88 ug/l	3.36	15.00	
23 Na	40.55 ug/l	2.44	77.10	
24 Mg	0.87 ug/l	39.56	7.50	
27 Al	-2.05 ug/l	1.47	3.96	
39 K	44.10 ug/l	39.16	19.20	Fail
44 Ca	-46.49 ug/l	3.58	90.00	
47 Ti	-0.11 ug/l	27.00	0.78	
51 V	-0.14 ug/l	6.90	0.21	
52 Cr	0.02 ug/l	31.40	0.12	
55 Mn	0.12 ug/l	30.70	0.18	
56 Fe	-4.70 ug/l	1.38	40.80	
59 Co	-0.51 ug/l	1.28	0.09	
60 Ni	-0.01 ug/l	94.06	0.48	
63 Cu	-0.54 ug/l	1.35	0.39	
65 Cu	-0.49 ug/l	3.32	0.39	
66 Zn	-0.46 ug/l	2.17	6.90	
75 As	-0.06 ug/l	25.26	0.27	
78 Se	0.03 ug/l	46.11	0.30	
78 Se	0.26 ug/l	64.77	0.30	
88 Sr	0.08 ug/l	58.96	0.03	Fail
88 Sr	0.02 ug/l	33.07	0.03	
95 Mo	0.00 ug/l	71.38	0.21	
106 (Cd)	-------- ug/l	--------	#VALUE!	
107 Ag	0.02 ug/l	32.89	0.09	
108 (Cd)	-------- ug/l	--------	#VALUE!	
111 Cd	0.03 ug/l	30.03	0.06	
118 Sn	-0.49 ug/l	1.94	0.30	
121 Sb	-0.39 ug/l	1.60	0.03	
137 Ba	0.02 ug/l	73.47	0.12	
205 Tl	0.02 ug/l	12.58	0.03	
206 (Pb)	-------- ug/l	--------	#VALUE!	
207 (Pb)	-------- ug/l	--------	#VALUE!	
208 Pb	-0.46 ug/l	1.66	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1311656.00	0.35	1481195.40	88.6	70 - 120	
45 Sc	732062.56	3.10	772553.25	94.8	70 - 120	
45 Sc	23410.24	1.90	22503.75	104.0	70 - 120	
45 Sc	1157355.90	1.26	1185323.00	97.6	70 - 120	
72 Ge	159936.31	1.17	148368.02	107.8	70 - 120	
72 Ge	10819.70	1.41	10084.80	107.3	70 - 120	
72 Ge	195718.31	0.69	194175.66	100.8	70 - 120	
115 In	956967.25	0.39	966828.31	99.0	70 - 120	
159 Tb	1011651.90	0.78	1047627.10	96.6	70 - 120	
165 Ho	966774.88	0.51	1003648.30	96.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.B\005CALB.D\005CALB.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

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	05/02/11	05/02/11	#602D-110502A-AY36735

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\031SMPL.D\031SMPL.D#
Date Acquired: May 2 2011 01:46 pm
Operator: SDM
Sample Name: 110502A-3015-BLK
Misc Info: 110502A-3015
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	-0.35	ug/l	-0.39	0.96	1000	
11 B	0.66	ug/l	0.74	0.98	1000	
23 Na	51.46	ug/l	57.17	2.66	25000	
24 Mg	5.13	ug/l	5.69	10.63	50000	
27 Al	30.18	ug/l	33.53	2.04	20000	
39 K	27.59	ug/l	30.65	40.78	20000	
44 Ca	22.83	ug/l	25.36	51.42	50000	
47 Ti	1.83	ug/l	2.03	21.15	1000	
51 V	-0.09	ug/l	-0.10	5.46	1000	
52 Cr	0.09	ug/l	0.10	19.22	1000	
55 Mn	12.03	ug/l	13.37	1.94	1000	
56 Fe	11.09	ug/l	12.32	5.28	20000	
59 Co	-0.53	ug/l	-0.58	0.28	1000	
60 Ni	0.06	ug/l	0.07	29.63	1000	
63 Cu	-0.46	ug/l	-0.51	5.09	1000	
65 Cu	-0.42	ug/l	-0.47	5.01	1000	
66 Zn	3.35	ug/l	3.72	1.32	1000	
75 As	0.11	ug/l	0.12	28.77	1000	
78 Se	0.00	ug/l	0.00	2780.80	1000	
78 Se	0.28	ug/l	0.31	109.95	1000	
88 Sr	0.23	ug/l	0.26	19.68	1000	
88 Sr	0.12	ug/l	0.13	8.37	1000	
95 Mo	0.63	ug/l	0.70	6.33	1000	
106 (Cd)	--------	ug/l	#VALUE!	--------	#######	
107 Ag	0.00	ug/l	0.00	1693.90	500	
108 (Cd)	--------	ug/l	#VALUE!	--------	#######	
111 Cd	0.03	ug/l	0.03	73.20	1000	
118 Sn	0.07	ug/l	0.08	37.42	1000	
121 Sb	0.12	ug/l	0.13	18.53	1000	
137 Ba	0.23	ug/l	0.26	11.17	1000	
205 Tl	0.01	ug/l	0.01	58.72	1000	
206 (Pb)	--------	ug/l	#VALUE!	--------	#######	
207 (Pb)	--------	ug/l	#VALUE!	--------	#######	
208 Pb	-0.29	ug/l	-0.32	5.32	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1223279.10	0.93	1481195.40	82.6	70 - 120	
45 Sc	719790.63	0.95	772553.25	93.2	70 - 120	
45 Sc	23440.28	1.04	22503.75	104.2	70 - 120	
45 Sc	1117015.80	0.82	1185323.00	94.2	70 - 120	
72 Ge	146381.09	0.68	148368.02	98.7	70 - 120	
72 Ge	10357.89	0.54	10084.80	102.7	70 - 120	
72 Ge	185538.20	0.38	194175.66	95.6	70 - 120	
115 In	913307.38	0.54	966828.31	94.5	70 - 120	
159 Tb	986832.06	0.61	1047627.10	94.2	70 - 120	
165 Ho	948837.00	1.04	1003648.30	94.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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

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)	250	234	93.6	80-120	05/02/11	05/02/11	#602D-110502A-AY36735

Comments: _____

Printed: 05/13/11 2:24:54 PM
APPL Standard LCS

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\035SMPL.D\035SMPL.D#
Date Acquired: May 2 2011 02:11 pm
Operator: SDM
Sample Name: 110502A-3015-LCS
Misc Info: 110502A-3015
Vial Number: 3106
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	38.22 ug/l	42.46	0.56	1000	
11 B	201.80 ug/l	224.20	1.03	1000	
23 Na	21440.00 ug/l	23819.84	0.79	25000	
24 Mg	20770.00 ug/l	23075.47	0.30	50000	
27 Al	1784.00 ug/l	1982.02	0.71	20000	
39 K	4446.00 ug/l	4939.51	1.27	20000	
44 Ca	22570.00 ug/l	25075.27	1.08	50000	
47 Ti	226.90 ug/l	252.09	2.65	1000	
51 V	217.10 ug/l	241.20	1.18	1000	
52 Cr	210.60 ug/l	233.98	0.76	1000	
55 Mn	286.60 ug/l	318.41	0.73	1000	
56 Fe	895.90 ug/l	995.34	0.21	20000	
59 Co	206.40 ug/l	229.31	0.83	1000	
60 Ni	201.70 ug/l	224.09	1.09	1000	
63 Cu	203.80 ug/l	226.42	0.82	1000	
65 Cu	204.90 ug/l	227.64	0.57	1000	
66 Zn	404.50 ug/l	449.40	0.63	1000	
75 As	213.50 ug/l	237.20	0.93	1000	
78 Se	208.20 ug/l	231.31	1.22	1000	
78 Se	218.00 ug/l	242.20	0.79	1000	
88 Sr	224.10 ug/l	248.98	1.06	1000	
88 Sr	220.70 ug/l	245.20	0.68	1000	
95 Mo	233.20 ug/l	259.09	0.15	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	84.86 ug/l	94.28	1.38	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	42.17 ug/l	46.85	2.25	1000	
118 Sn	227.00 ug/l	252.20	0.93	1000	
121 Sb	235.50 ug/l	261.64	1.02	1000	
137 Ba	221.90 ug/l	246.53	1.02	1000	
205 Tl	208.10 ug/l	231.20	0.92	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	210.90 ug/l	234.31	0.39	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1147501.90	0.64	1481195.40	77.5	70 - 120	
45 Sc	706838.94	1.17	772553.25	91.5	70 - 120	
45 Sc	23257.41	0.59	22503.75	103.3	70 - 120	
45 Sc	1089582.40	1.63	1185323.00	91.9	70 - 120	
72 Ge	145245.03	0.68	148368.02	97.9	70 - 120	
72 Ge	10327.49	0.70	10084.80	102.4	70 - 120	
72 Ge	182294.59	0.97	194175.66	93.9	70 - 120	
115 In	891009.50	1.37	966828.31	92.2	70 - 120	
159 Tb	991895.19	0.90	1047627.10	94.7	70 - 120	
165 Ho	947818.38	0.32	1003648.30	94.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.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

Matrix Spike Recoveries

METALS

APPL ID: **110502W-36735 MS - 154718**

Sample ID: AY36735

Client ID: ES033

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	250	ND	229	227	91.6	90.8	0.9	20	80-120	05/02/11	05/02/11	05/02/11	05/02/11	154718	AY36735

Comments: _____

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11E02k00.B\102SMPL.D\102SMPL.D#
Date Acquired: May 2 2011 09:09 pm
Operator: SDM
Sample Name: AY36735W08 MS
Misc Info: 110502A-3015
Vial Number: 3501
Current Method: C:\ICPCHEM\1\METHOD9\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	32.70 ug/l	36.33	1.87	1000	
11 B	248.30 ug/l	275.86	0.36	1000	
23 Na	53640.00 ug/l	59594.04	1.61	25000	>Cal
24 Mg	29250.00 ug/l	32496.75	1.73	50000	
27 Al	1667.00 ug/l	1852.04	0.52	20000	
39 K	6078.00 ug/l	6752.66	1.14	20000	
44 Ca	39010.00 ug/l	43340.11	1.53	50000	
47 Ti	214.00 ug/l	237.75	1.31	1000	
51 V	213.40 ug/l	237.09	1.01	1000	
52 Cr	204.60 ug/l	227.31	0.89	1000	
55 Mn	1050.00 ug/l	1166.55	1.17	1000	>Cal
56 Fe	1245.00 ug/l	1383.20	2.52	20000	
59 Co	202.80 ug/l	225.31	1.28	1000	
60 Ni	193.90 ug/l	215.42	1.71	1000	
63 Cu	193.40 ug/l	214.87	1.18	1000	
65 Cu	193.00 ug/l	214.42	0.80	1000	
66 Zn	387.00 ug/l	429.96	1.28	1000	
75 As	205.00 ug/l	227.76	0.71	1000	
78 Se	202.90 ug/l	225.42	0.58	1000	
78 Se	195.30 ug/l	216.98	3.31	1000	
88 Sr	311.70 ug/l	346.30	1.54	1000	
88 Sr	321.20 ug/l	356.85	1.36	1000	
95 Mo	224.30 ug/l	249.20	1.24	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	#######	
107 Ag	81.05 ug/l	90.05	0.15	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	#######	
111 Cd	41.48 ug/l	46.08	1.48	1000	
118 Sn	223.60 ug/l	248.42	0.41	1000	
121 Sb	234.90 ug/l	260.97	0.45	1000	
137 Ba	228.80 ug/l	254.20	0.89	1000	
205 Tl	207.30 ug/l	230.31	2.02	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	#######	
207 (Pb)	-------- ug/l	#VALUE!	--------	#######	
208 Pb	205.90 ug/l	228.75	1.42	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1155701.00	1.70	1481195.40	78.0	70 - 120	
45 Sc	786846.31	2.12	772553.25	101.9	70 - 120	
45 Sc	22324.11	1.60	22503.75	99.2	70 - 120	
45 Sc	1208676.50	1.44	1185323.00	102.0	70 - 120	
72 Ge	151960.25	1.24	148368.02	102.4	70 - 120	
72 Ge	10320.45	1.01	10084.80	102.3	70 - 120	
72 Ge	183507.77	0.71	194175.66	94.5	70 - 120	
115 In	900821.13	0.67	966828.31	93.2	70 - 120	
159 Tb	988405.00	1.19	1047627.10	94.3	70 - 120	
165 Ho	949300.56	0.78	1003648.30	94.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.B\005CALB.D\005CALB.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\11E02k00.B\103SMPL.D\103SMPL.D#
Date Acquired: May 2 2011 09:15 pm
Operator: SDM
Sample Name: AY36735W08 MSD
Misc Info: 110502A-3015
Vial Number: 3502
Current Method: C:\ICPCHEM\1\METHODS\62A0502.M
Calibration File: C:\ICPCHEM\1\CALIB\62A0502.C
Last Cal Update: May 02 2011 11:33 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	32.78 ug/l	36.42	1.47	1000	
11 B	249.90 ug/l	277.64	1.11	1000	
23 Na	52970.00 ug/l	58849.67	1.67	25000	>Cal
24 Mg	29220.00 ug/l	32463.42	1.56	50000	
27 Al	1668.00 ug/l	1853.15	1.15	20000	
39 K	6058.00 ug/l	6730.44	1.69	20000	
44 Ca	39040.00 ug/l	43373.44	2.06	50000	
47 Ti	215.30 ug/l	239.20	2.33	1000	
51 V	216.10 ug/l	240.09	0.89	1000	
52 Cr	205.00 ug/l	227.76	1.35	1000	
55 Mn	1007.00 ug/l	1118.78	1.14	1000	>Cal
56 Fe	1242.00 ug/l	1379.86	1.93	20000	
59 Co	204.60 ug/l	227.31	1.80	1000	
60 Ni	192.60 ug/l	213.98	1.48	1000	
63 Cu	193.20 ug/l	214.65	1.82	1000	
65 Cu	194.70 ug/l	216.31	2.12	1000	
66 Zn	385.70 ug/l	428.51	1.53	1000	
75 As	208.60 ug/l	231.75	2.29	1000	
78 Se	206.30 ug/l	229.20	0.26	1000	
78 Se	200.40 ug/l	222.64	4.88	1000	
88 Sr	315.90 ug/l	350.96	2.71	1000	
88 Sr	321.10 ug/l	356.74	1.38	1000	
95 Mo	225.40 ug/l	250.42	1.10	1000	
106 (Cd)	-------- ug/l	#VALUE!	--------	########	
107 Ag	80.72 ug/l	89.68	0.90	500	
108 (Cd)	-------- ug/l	#VALUE!	--------	########	
111 Cd	40.92 ug/l	45.46	1.83	1000	
118 Sn	224.80 ug/l	249.75	1.24	1000	
121 Sb	234.40 ug/l	260.42	1.12	1000	
137 Ba	231.90 ug/l	257.64	0.87	1000	
205 Tl	204.60 ug/l	227.31	1.31	1000	
206 (Pb)	-------- ug/l	#VALUE!	--------	########	
207 (Pb)	-------- ug/l	#VALUE!	--------	########	
208 Pb	204.80 ug/l	227.53	1.22	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1152657.80	0.42	1481195.40	77.8	70 - 120	
45 Sc	788198.88	0.16	772553.25	102.0	70 - 120	
45 Sc	22445.77	2.04	22503.75	99.7	70 - 120	
45 Sc	1213397.60	1.23	1185323.00	102.4	70 - 120	
72 Ge	151137.09	0.90	148368.02	101.9	70 - 120	
72 Ge	10204.08	1.80	10084.80	101.2	70 - 120	
72 Ge	182955.11	0.80	194175.66	94.2	70 - 120	
115 In	898100.06	0.75	966828.31	92.9	70 - 120	
159 Tb	988544.13	1.09	1047627.10	94.4	70 - 120	
165 Ho	939463.56	0.94	1003648.30	93.6	70 - 120	

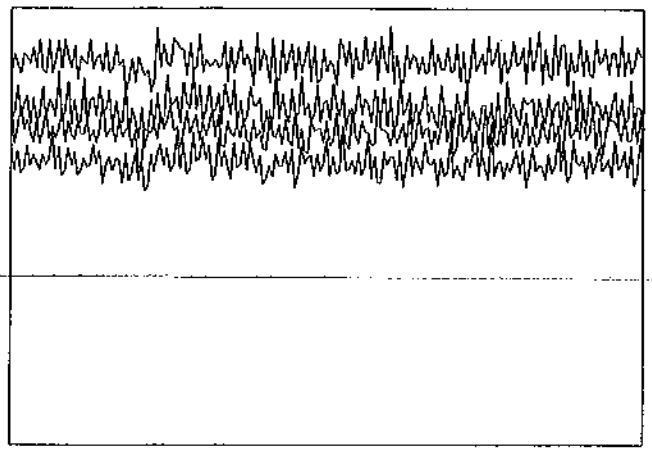
ISTD Ref File : C:\ICPCHEM\1\DATA\11E02k00.B\005CALB.D\005CALB.D#

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

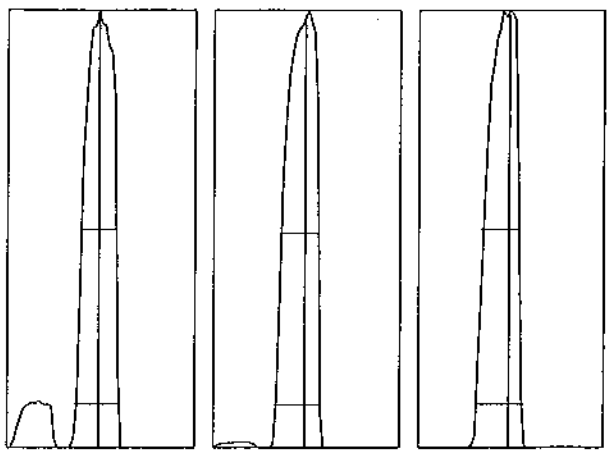
Tune Report

Tune File : nogas.u
Comment : 110502



Integration Time:	0.1000 sec	
Sampling Period:	0.6200 sec	
n:	200	
Oxide:	156/140	0.906%
Doubly Charged:	70/140	1.530%

m/z	Range	Count	Mean	RSD%	Background
7	20,000	17867.0	17611.2	3.89	1.50
89	20,000	14490.0	15432.6	4.67	3.60
205	10,000	6385.0	7185.1	4.48	11.90
156/140	2	0.941%	0.902%	12.98	
70/140	5	1.480%	1.534%	8.98	
140	20,000	11694.0	12935.5	4.76	9.20



m/z:	7	89	205
Height:	17,959	15,248	7,053
Axis:	7.00	89.00	205.00
W-50%:	0.60	0.65	0.65
W-10%:	0.7500	0.7500	0.800

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Generated : May 02, 2011 10:36:32
Printed : May 02, 2011 10:36:34

Tune Report

Tune File : nogas.u
Comment : 110502

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1600 W	Extract 1	:	0 V	AMU Gain	:	126
RF Matching	:	1.7 V	Extract 2	:	-110 V	AMU Offset	:	127
Smpl Depth	:	9.7 mm	Omega Bias-ce	:	-20 V	Axis Gain	:	0.9997
Torch-H	:	0.1 mm	Omega Lens-ce	:	-2.6 V	Axis Offset	:	-0.02
Torch-V	:	0.3 mm	Cell Entrance	:	-30 V	QP Bias	:	-3 V
Carrier Gas	:	0.96 L/min	QP Focus	:	5 V			
Makeup Gas	:	0 L/min	Cell Exit	:	-30 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	8 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1630 V
Sample Pump	:	--- rps	OctP RF	:	170 V	Pulse HV	:	1190 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	:	--- %

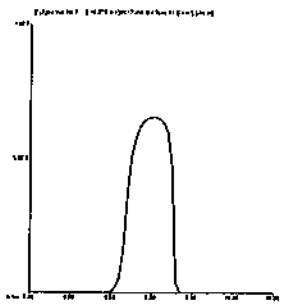
Generated : May 02, 2011 10:36:32
Printed : May 02, 2011 10:36:37

200.8 QC Tune Report

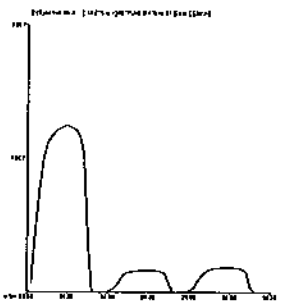
Data File: C:\ICPCHEM\1\DATA\11E02k00.B\001TUNE.D
Date Acquired: May 2 2011 10:41 am
Acq. Method: TN200_8.M
Operator: SDM
Sample Name: 100ppb Tune sol
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

RSD (%)

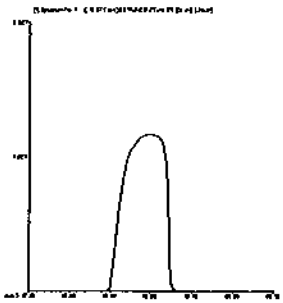
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	36321076	35936888	36219196	36310092	36441448	36697756	**1.06**	5.00	
24 Mg	72791637	72292232	72614080	73406816	72464752	73180304	**0.50**	5.00	
59 Co	69471418	69118336	69559360	69825560	69179696	69674136	**0.74**	5.00	
115 In	69974735	69346024	70147344	70276168	70090744	70013392	**0.69**	5.00	
208 Pb	25173386	24846592	25344668	25193638	25371452	25110580	**1.02**	5.00	



9 Be
Mass Calib.
Actual: 9.00
Required: 8.90 - 9.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



24 Mg
Mass Calib.
Actual: 24.00
Required: 23.90 - 24.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:



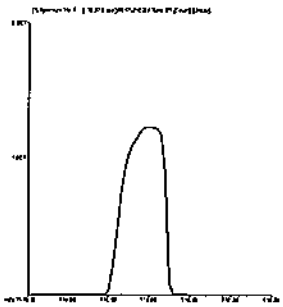
59 Co

Mass Calib.

Actual:	59.00		
Required:	58.90	-	59.10
Flag:			

Peak Width

Actual:	0.65		
Required:	0.90		
Flag:			



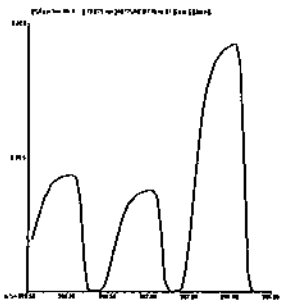
115 In

Mass Calib.

Actual:	115.00		
Required:	114.90	-	115.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.90		
Flag:			



208 Pb

Mass Calib.

Actual:	207.95		
Required:	207.90	-	208.10
Flag:			

Peak Width

Actual:	0.60		
Required:	0.80		
Flag:			

Tune Result: Pass

Metals Standards Log Book # 32 Page # 107

HM 5/2/11
6020 / 6020A

ICP-MS STANDARDS 6020/6020A/3015/3051A

Today's Date: 5/2/2011
Expires: 5/9/2011
Prep Date 1% HNO3/1.0%HCL
20 mL HNO3 / 2000 mL Di Water
Lot # 1110039
20mL HCL / 2000mL Di Water
Lot #4110060
Expires: 5/8/2011

Standard 4

Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	Env. Express	1036407-28139
50 uL	CCV-B	Env. Express	1036410-28140
50 uL	CCV-C	Env. Express	1100309-28141

Prepared in 100 mL of 1% HNO3/1.0% HCL 5/2/2011

Standard 3 5/9/2011

Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	Env. Express	1036407-28139
25 uL	CCV-B	Env. Express	1036410-28140
25 uL	CCV-C	Env. Express	1100309-28141

Prepared in 100 mL of 1% HNO3/1.0% HCL 5/2/2011

Standard 2 5/9/2011
Amount STD
500 uL Standard 4 5/2/2011
Prepared in 50 mL of 1% HNO3/1.0% HCL 5/2/2011

Standard 1 5/9/2011
Amount STD
50 uL Standard 4 5/2/2011
Prepared in 50 mL of 1% HNO3/1.0% HCL 5/2/2011

ICP-MS ICV 5/9/2011
Amount STD
50 uL QCS ICV A CPI 11C174-28548
50 uL QCS ICV B CPI 11C174-28549
Prepared in 50 mL of 1% HNO3/1.0% HCL 5/2/2011

ICSA Prep: 5/9/2011
1 mL ICSA CPI 11C066-28529
Prepared in 5 mL of 1% HNO3/1.0% HCL 5/2/2011

ICSAB Prep: 5/9/2011
1mL ICSA CPI 11C066-28529
0.025mL INT O2SI 1023805-28210
Prepared in 5 mL of 1% HNO3/1.0% HCL 5/2/2011

ICP-LDR 5/9/2011
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 5/2/2011

HM 5/2/11

Internal Standard Concentration						
Amt	STD	Element	Vendor	Lot#	Final Conc. in Std	Expires
50uL	1000 ug/mL	Li	CPI	10L079-27839	1ppm	6/10/2012
50uL	1000 ug/mL	In	CPI	090228-25827	1ppm	4/23/2011
50uL	1000 ug/mL	Ho	CPI	09F382-25328	1ppm	4/23/2011
50uL	1000 ug/mL	Tb	CPI	09A222-25326	1ppm	4/23/2011
50uL	1000 ug/mL	Sc	o2si	1024079-28827	1ppm	8/18/2012
50uL	1000 ug/mL	Ge	Environmental Express	0932418-25895	1ppm	7/13/2011
Prep:	5/2/2011	SDM	Prep in -	1%HNO3/1.0%HCL;	Lot #1110039041110060 in	50mL
Expires:	6/1/2011					

HM 5/2/11

5/2/11
6010B / 6010C
(A)

STD 2 or CCV1 6010B/6010C/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1 ML	CCV-A	ENVIRONMENTAL EXPRESS	1026453-27365	9/23/2011
1 ML	CCV-B	ENVIRONMENTAL EXPRESS	1026454-27366	9/23/2011
1 ML	CCV-C	ENVIRONMENTAL EXPRESS	1026455-27367	9/23/2011
Prepared in 200 ml 1%HNO3/5%HCl				
CCV2 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
0.75 ML	CCV-A	ENVIRONMENTAL EXPRESS	1026453-27365	9/23/2011
0.75 ML	CCV-B	ENVIRONMENTAL EXPRESS	1026454-27366	9/23/2011
0.75 ML	CCV-C	ENVIRONMENTAL EXPRESS	1026455-27367	9/23/2011
Prepared in 200 ml 1%HNO3/5%HCl				
STD 3 or HDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1ML	CCV-A	ENVIRONMENTAL EXPRESS	1036407-28139	1/3/2012
1ML	CCV-B	ENVIRONMENTAL EXPRESS	1036410-28140	1/3/2012
1ML	CCV-C	ENVIRONMENTAL EXPRESS	1100309-28141	1/3/2012
Prepared in 100 ml 1%HNO3/5%HCl				
STD 1 or LDL 6010B/6010C				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
1ML	6010 LDL	O2SI	1023057-27848	1/1/2012
Prepared in 100 ml 1%HNO3/5%HCl				
1%HNO3/5%HCL BLK				
AMOUNT	ACID	MANUFACTURER		EXP DATE
20 ML	HNO3	BDH	1110110	11/18/2013
100 ML	HCL	BDH	4110080	9/24/2013
Prepared in 2000ml DI H2O				
6010B/6010C ICSA		MANUFACTURER		EXP DATE
AMOUNT				
Stock Solution prepared on 07/26/10		See 07/26/10		5/19/2011
Prepared in 1000 ml 1%HNO3/5%HCl				
6010B/6010C ICSAB				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
ICSA Stock Solution prepared on 07/26/10		See 07/26/10		5/19/2011
1mL	INT	O2SI	1019502-26434	5/1/2011
Prepared in 100 ml of ICSA Stock Solution				
Date Prepared				
6010B/6010C ICV				EXP DATE
0.5ML	QCS ICV A	CPI	11C174-28548	9/17/2012
0.5ML	QCS ICV B	CPI	11C174-28549	9/17/2012
Prepared in 50ml 1%HNO3/5%HCl				

_M3015

Metals Digestion Worksheet

Method Name 3015 Digestion **Prep Method** M3015 **Set** 110502A **Units** mL

Spikes	
Spiked ID 1	LCSW LOT# 11C173-28546
Spiked ID 2	LCSW LOT# 11C172-28545
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 05/02/11 8:55:00 AM
Witnessed By	DP Date: 05/02/11 8:55:00 AM

Starting Temp:	30°c
Ending Temp:	170°c
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	YES
End Date/Time	5/2/11 0955

	Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	110502A Blk				45mL	50mL	05/02/11 8:55	
2	110502A LCS		450uL	1+2	45mL	50mL	05/02/11 8:55	
3	AY36735	AY36735W08			45mL	50mL	05/02/11 8:55	
4	AY36735 MS	AY36735W08	450uL	1+2	45mL	50mL	05/02/11 8:55	
5	AY36735 MSD	AY36735W08	450uL	1+2	45mL	50mL	05/02/11 8:55	
6	DOC-1		450uL	1+2	45mL	50mL	05/02/11 8:55	
7	DOC-2		450uL	1+2	45mL	50mL	05/02/11 8:55	
8	DOC-3		450uL	1+2	45mL	50mL	05/02/11 8:55	
9	DOC-4		450uL	1+2	45mL	50mL	05/02/11 8:55	

Solvent and Lot#
HNO3 BDH 1110110 2903

Sample COC Transfer	
Sample prep employee Initials	dp
Analyst's initials	HM/SPM
Date	5/2/11
Time	15:00
Moved to	metals

Technician's Initials	
Scanned By	dp
Sample Preparation	nm
Digestion	dp
Bring up to volume	nm
Modified	05/02/11 8:33:38 AM

Reviewed By: HM 297 **Date:** HM 5/2/11

6020/200.8 Injection Log

Directory: K:\ICP-MS Optimus\raw data output csv\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	02 May 2011	11:04	Calibration Blank		110502A	1.
2	02 May 2011	11:10	110502 Standard 1		110502A	1.
3	02 May 2011	11:16	110502 Standard 2		110502A	1.
4	02 May 2011	11:23	110502 Standard 3		110502A	1.
5	02 May 2011	11:29	110502 Standard 4		110502A	1.
6	02 May 2011	11:35	ICV 110502		110502A	1.
8	02 May 2011	12:00	CCV 110502		110502A	1.
9	02 May 2011	12:19	ICB 110502		110502A	1.
10	02 May 2011	12:25	CCB 110502		110502A	1.
11	02 May 2011	12:31	LDR 110502		110502A	1.
12	02 May 2011	12:43	ICSA 110502		110502A	1.
13	02 May 2011	12:50	ICSAB 110502		110502A	1.
14	02 May 2011	13:02	CCV 110502		110502A	1.
15	02 May 2011	13:27	CCB 110502		110502A	1.
17	02 May 2011	13:46	110502A-3015-BLK		110502A	1.
21	02 May 2011	14:11	110502A-3015-LCS		110502A	1.
27	02 May 2011	14:48	CCV 110502		110502A	1.
28	02 May 2011	15:07	CCB 110502		110502A	1.
66	02 May 2011	19:47	CCV 110502		110502A	1.
67	02 May 2011	20:12	CCB 110502		110502A	1.
75	02 May 2011	21:02	AY36735W08		110502A	1.
76	02 May 2011	21:09	AY36735W08 MS		110502A	1.
77	02 May 2011	21:15	AY36735W08 MSD		110502A	1.
79	02 May 2011	21:27	CCV 110502		110502A	1.
80	02 May 2011	21:52	CCB 110502		110502A	1.
81	02 May 2011	21:59	AY36735W08-A		110502A	1.
82	02 May 2011	22:05	AY36735W08-1/5		110502A	5.
92	02 May 2011	23:07	CCV 110502		110502A	1.
93	02 May 2011	23:32	CCB 110502		110502A	1.

EPA Method 6020

Metals

Digestion Information:

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

Analysis Information:

Samples:

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

Calibrations:

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

Blanks:

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

Spikes:

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

Sample ES033 was designated by the laboratory for MS/MSD analysis. All acceptance criteria were met for the MS/MSD, PDS, and serial dilution.

Summary:

No analytical exception is noted.