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

Certification Number: CA1312
NELAP Certification number: CA00046
DoD-ELAP Certificate number: 4064.01

Data Validatable Report

January 14, 2022

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Alethea Ramos

Title: Report of Data: Case 98381

Project: 60571032 CV18F0126 Red Hill Fuel Storage, HI

Contract #: Prime contract # for DoD: NAVY CLEAN N62742-17-F-1800, CV18F0126
Subcontract: 18S-22209-HI27

Dear Ms. Ramos:

Thirteen water samples were received December 3, 2021. Written results for the requested analyses are being provided on this January 14, 2022.

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

If you have any questions or require further information, please contact your APPL Project Manager, Libby Cheeseborough, libby@applinc.com, at your convenience. Thank you for choosing APPL, Inc.

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

for

Loren Portwood, Laboratory Director
APPL, Inc.

LP/lac
Enclosure
cc: File

Data Validation Package
for
60571032 CV18F0126 Red Hill Fuel Storage
APPL SDG 98381
TABLE OF CONTENTS

LABORATORY NAME: *APPL, Inc.*

CASE NARRATIVE

Case Narrative

ARF: 98381

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

Thirteen water samples were received December 3, 2021 at 0.1°C and 0.1°C. The sample group was assigned Analytical Request Form (ARF) number 98381.

Sample Preparation and Analysis Information:

For the EPA 8015B analysis, the samples were extracted according to EPA method 3520C. The sample extracts were silica gel cleaned according to APPL's SOP CLN004 and placed on hold.

For the EPA 8015B analysis, pre-extraction sample blanks were extracted according to EPA method 3520C before the method QC and field samples. The sample blanks are included in this report.

For the EPA 8270D SIM analysis, the samples were extracted according to EPA method 3520C.

For the EPA 8260B analysis, the samples were purged according to EPA method 5030B.

For the EPA 9060A analysis, the samples were prepared according to the method.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request. Measurement uncertainty can be reported upon request.

Analytical Exceptions, Deviations and Abnormalities.

None

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description	Prep DateTime	Analysis DateTime
98381	12/3/2021	ERH2001	BA47127	12/1/2021 10:50:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/7/2021 11:31:00 PM	12/7/2021 11:31:00 PM
98381	12/3/2021	ERH2001	BA47127	12/1/2021 10:50:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/7/2021 11:31:00 PM	12/7/2021 11:31:00 PM
98381	12/3/2021	ERH2002	BA47128	12/1/2021 11:07:00 AM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/7/2021 11:55:00 PM	12/7/2021 11:55:00 PM
98381	12/3/2021	ERH2002	BA47128	12/1/2021 11:07:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH WATER L-L SGC	12/7/2021 9:05:00 AM	12/13/2021 6:06:00 PM
98381	12/3/2021	ERH2002	BA47128	12/1/2021 11:07:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	12/7/2021 9:05:00 AM	12/13/2021 8:55:00 PM
98381	12/3/2021	ERH2002	BA47128	12/1/2021 11:07:00 AM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/7/2021 11:55:00 PM	12/7/2021 11:55:00 PM
98381	12/3/2021	ERH2002	BA47128	12/1/2021 11:07:00 AM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	12/6/2021 9:00:00 AM	12/8/2021 1:55:00 PM
98381	12/3/2021	ERH2002	BA47128	12/1/2021 11:07:00 AM	WATER	SW846 9060A	9060A TOC	12/6/2021 9:50:00 PM	12/6/2021 9:50:00 PM
98381	12/3/2021	ERH2011	BA47129	12/1/2021 9:50:00 AM	WATER	SW846 9060A	9060A TOC	12/6/2021 9:08:00 PM	12/6/2021 9:08:00 PM
98381	12/3/2021	ERH2013	BA47130	12/1/2021 3:25:00 PM	WATER	SW846 9060A	9060A TOC	12/6/2021 10:32:00 PM	12/6/2021 10:32:00 PM
98381	12/3/2021	ERH2004	BA47131	12/1/2021 12:12:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/8/2021 12:18:00 AM	12/8/2021 12:18:00 AM
98381	12/3/2021	ERH2004	BA47131	12/1/2021 12:12:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/8/2021 12:18:00 AM	12/8/2021 12:18:00 AM
98381	12/3/2021	ERH2005	BA47132	12/1/2021 12:15:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/8/2021 12:42:00 AM	12/8/2021 12:42:00 AM
98381	12/3/2021	ERH2005	BA47132	12/1/2021 12:15:00 PM	WATER	EPA 8015B-eHL	EPA 8015B TPH WATER L-L SGC	12/7/2021 9:05:00 AM	12/13/2021 6:34:00 PM
98381	12/3/2021	ERH2005	BA47132	12/1/2021 12:15:00 PM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	12/7/2021 9:05:00 AM	12/14/2021 8:44:00 AM
98381	12/3/2021	ERH2005	BA47132	12/1/2021 12:15:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/8/2021 12:42:00 AM	12/8/2021 12:42:00 AM
98381	12/3/2021	ERH2005	BA47132	12/1/2021 12:15:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	12/6/2021 9:00:00 AM	12/8/2021 2:15:00 PM
98381	12/3/2021	ERH2005	BA47132	12/1/2021 12:15:00 PM	WATER	SW846 9060A	9060A TOC	12/7/2021 12:32:00 AM	12/7/2021 12:32:00 AM
98381	12/3/2021	ERH2007	BA47133	12/1/2021 1:15:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/8/2021 1:07:00 AM	12/8/2021 1:07:00 AM
98381	12/3/2021	ERH2007	BA47133	12/1/2021 1:15:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/8/2021 1:07:00 AM	12/8/2021 1:07:00 AM
98381	12/3/2021	ERH2008	BA47134	12/1/2021 1:25:00 PM	WATER	EPA 8260B	EPA 8260B BTEX WATER	12/8/2021 1:31:00 AM	12/8/2021 1:31:00 AM
98381	12/3/2021	ERH2008	BA47134	12/1/2021 1:25:00 PM	WATER	EPA 8015B-eHL	EPA 8015B TPH WATER L-L SGC	12/7/2021 9:05:00 AM	12/13/2021 7:02:00 PM
98381	12/3/2021	ERH2008	BA47134	12/1/2021 1:25:00 PM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	12/7/2021 9:05:00 AM	12/14/2021 9:12:00 AM
98381	12/3/2021	ERH2008	BA47134	12/1/2021 1:25:00 PM	WATER	EPA 8260B	EPA 8260B GRO WATER	12/8/2021 1:31:00 AM	12/8/2021 1:31:00 AM
98381	12/3/2021	ERH2008	BA47134	12/1/2021 1:25:00 PM	WATER	8270D-SIM	EPA 8270D SIM LIQ-LIQ	12/6/2021 9:00:00 AM	12/8/2021 2:35:00 PM
98381	12/3/2021	ERH2008	BA47134	12/1/2021 1:25:00 PM	WATER	SW846 9060A	9060A TOC	12/6/2021 11:12:00 PM	12/6/2021 11:12:00 PM
98381	12/3/2021	ERH2018	BA47135	12/1/2021 9:45:00 AM	WATER	SW846 9060A	9060A TOC	12/7/2021 1:13:00 AM	12/7/2021 1:13:00 AM
98381	12/3/2021	ERH2020	BA47136	12/1/2021 1:30:00 PM	WATER	SW846 9060A	9060A TOC	12/6/2021 11:52:00 PM	12/6/2021 11:52:00 PM
98381	12/3/2021	ERH2002 BLANK	BA47137	12/1/2021 11:07:00 AM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	12/7/2021 9:05:00 AM	12/14/2021 11:27:00 PM
98381	12/3/2021	ERH2005 BLANK	BA47138	12/1/2021 12:15:00 PM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	12/7/2021 9:05:00 AM	12/14/2021 11:55:00 PM
98381	12/3/2021	ERH2008 BLANK	BA47139	12/1/2021 1:25:00 PM	WATER	EPA 8015B-eHL	EPA 8015B TPH LIQ-LIQ	12/7/2021 9:05:00 AM	12/15/2021 12:23:00 AM

APPL Inc.
Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

SAMPLE RECORDS MANAGEMENT

CHAIN OF CUSTODY,

ARF, CRF, AND

CLIENT COMMUNICATION

APPL - Analysis Request Form 98381

Client: AECOM
Address: 1001 Bishop Street, Suite 1600
Honolulu, HI 96813
Attn: Alethea Ramos
Phone: 808-954-4536 Fax: 808-523-8950
Job: 60571032 CV18F0126 Red Hill Fuel Storag
PO #: 18S-22209-HI27 PO# 102604
Chain of Custody (Y/N) Y 50096
RAD Screen (Y/N): Y pH (Y/N): Y
Turn Around Type: 1 WEEK

Received by: MSA
Date Received: 12/03/21 Time: 11:35
Delivered by: FEDEX
Shuttle Custody Seals (Y/N): Y Time Zone: -10
Chest Temp(s): 0.1,0.1°C
Color: VFRG/K-PurpleYellow
Samples Chilled until Placed in Refrig/Freezer: Y
Project Manager: Libby Cheesebor
QC Report Type: DVP4DOD/EQUIS/HI
Due Date: 12/10/21

Comments:
PM: login and F1s to Margie.Pascua@aecom.com & alethea.ramos@aecom.com
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms: LOD database
Report MS/MSD/DUPs when AECOM sample used
8260: BTEX & TPH-G only; 8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH-D/O both with and w/o SGC, reverse surrog for SGC; DO NOT Q-DELETE.
FR: email ftp info to Margie, alethea.ramos@aecom.com, Stella, trommelfanger@lab-data.com & jcanlas@la
EDD: AECOM EQuIS EDD 2.5.3 to alethea.ramos@, Margie.Pascua@aecom.com, jecklund@lab-data.com

Sample Distribution:
GC: 3-$DOC53SGCW5LIQ, 3-$DOC53W5LIQ, 3-$SIM53LIQ51, 3-$RHBLKETBLK
Extractions: 3-_LIQ003, 6-_LIQ005, 3-_LIQ005SGC
VOA: 6-$86BTOTXDOD5W, 6-$GASBL, 6-$GRO86BW
Wetlab: 7-$TOCW53

Charges:

Invoice To:
ACCOUNTS PAYABLE
1001 Bishop Street, Ste 1600
USAPImaging@aecom.com
mary.basano@aecom.com

	Client ID		APPL ID	Sampled		Analyses Requested
1.	ERH2001	LCSD	BA47127W	12/01/21	10:50	$86BTOTXDOD5W, $GASBL, $GRO86BW -- See Comments
2.	ERH2002	LCSD	BA47128W	12/01/21	11:07	$86BTOTXDOD5W, $DOC53SGCW5LIQ, $DOC53W5LIQ, $GASBL, $GRO86BW, $SIM53LIQ51, $TOCW53 -- See Comments
3.	ERH2011	LCSD	BA47129W	12/01/21	09:50	$TOCW53 -- See Comments
4.	ERH2013	LCSD	BA47130W	12/01/21	15:25	$TOCW53 -- See Comments

5.	ERH2004	LCSD	BA47131W	12/01/21 12:12	$86BTOTXDOD5W, $GASBL, $GRO86BW -- See Comments
6.	ERH2005	LCSD	BA47132W	12/01/21 12:15	$86BTOTXDOD5W, $DOC53SGCW5LIQ, $DOC53W5LIQ, $GASBL, $GRO86BW, $SIM53LIQ51, $TOCW53 -- See Comments
7.	ERH2007	LCSD	BA47133W	12/01/21 13:15	$86BTOTXDOD5W, $GASBL, $GRO86BW -- See Comments
8.	ERH2008	LCSD	BA47134W	12/01/21 13:25	$86BTOTXDOD5W, $DOC53SGCW5LIQ, $DOC53W5LIQ, $GASBL, $GRO86BW, $SIM53LIQ51, $TOCW53 -- See Comments
9.	ERH2018	LCSD	BA47135W	12/01/21 09:45	$TOCW53 -- See Comments
10.	ERH2020	LCSD	BA47136W	12/01/21 13:30	$TOCW53 -- See Comments
11.	ERH2002 BLANK	LCSD	BA47137W	12/01/21 11:07	$RHBLKETBLK -- See Comments
12.	ERH2005 BLANK	LCSD	BA47138W	12/01/21 12:15	$RHBLKETBLK -- See Comments
13.	ERH2008 BLANK	LCSD	BA47139W	12/01/21 13:25	$RHBLKETBLK -- See Comments

APPL Sample Receipt Form

ARF# **98381**

Sample	Container Type	Count	p
BA47127	[13] VOAs - HCL	4	NA
BA47128	[13] VOAs - HCL	4	NA
	[17] Amber Liter	2	NA
	[32] Clear VOA - H2SO4	2	NA
	[39] Amber Liter, HCL prsvd	2	1.3
BA47129	[32] Clear VOA - H2SO4	2	NA
BA47130	[32] Clear VOA - H2SO4	2	NA
BA47131	[13] VOAs - HCL	4	NA
BA47132	[13] VOAs - HCL	4	NA
	[17] Amber Liter	2	NA
	[32] Clear VOA - H2SO4	2	NA
	[39] Amber Liter, HCL prsvd	2	1.3
BA47133	[13] VOAs - HCL	4	NA
BA47134	[13] VOAs - HCL	4	NA
	[17] Amber Liter	2	NA
	[32] Clear VOA - H2SO4	2	NA
	[39] Amber Liter, HCL prsvd	2	1.3
BA47135	[32] Clear VOA - H2SO4	2	NA
BA47136	[32] Clear VOA - H2SO4	2	NA
BA47137	[39] Amber Liter, HCL prsvd	1	NA
BA47138	[39] Amber Liter, HCL prsvd	1	NA
BA47139	[39] Amber Liter, HCL prsvd	1	NA

Sample	Container Type	Count	p

98381

CHAIN OF CUSTODY RECORD

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

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

C.O.C. 50096 NOI 1/2

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: AECOM Phone: (808) 521-3051	Company Name: AECOM Phone: (808) 521-3051
Address: 1001 Bishop St., Suite 1600 Honolulu, HI 96813 Fax:	Address: 1001 Bishop St., Suite 1600 Honolulu, HI 96813 Fax:
Attn: Alethea Ramos ; Alethea.Ramos@aecom.com	Attn: Shere Smith ; shereee.smith@aecom.com ; usaImaging@aecom.com

Project Name/Number	Sampler (Print)
60571032.02.20.01	GM, MY, NL
Purchase Order Number	**Sampler (Signature)**
102604	for GM, MY, NL

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Matrix: Aq	Matrix: Sed.	Matrix: Soil	Analysis Requested/Method Number: BTEX by 8260	TPH-g by 8260	TPH-d/o by 8015	TPH-d/o by 8015 with SGC	PAH Short List by 8270D SIM	TOC by 9060	Date Shipped: 12/2/21
															Carrier: Fedex
															Waybill No.:
															Comments:
															Note: Log NOI in
ERH2001	Trip Blank	12/1/21	1050	HST	4	X			X	X					separate SDG's
ERH2002	RHMW01R		1107		10	X			X	X	X	X	X*	X	from other COCs.
ERH2011	RHMW05		0950		2	X								X	
ERH2013	RHMW08		1525		2	X								X	TPH-d/o and PAH's
ERH2004	Trip Blank		1212		4	X			X	X					need liquid-liquid
ERH2005	RHMW02		1215		6	X			X	X	X	X	X*	X	extraction;
ERH2007	Trip Blank		1315		4	X			X	X					*Naphthalene
ERH2008	RHMW03		1325		6	X			X	X	X	X	X*	X	1-methylnaphthalene
ERH2018	RHMW2254-01		0945		2	X								X	2-methylnaphthalene
ERH2020	OWDFMW01	↓	1330	✓	2	X								X	

Shuttle Temperature: R3: 2.0/0.1°C, 2.0/0.1°C

Turnaround Requested: Check one
☐ Standard 2-3 wk ☑ One week ☐ 24/48 Hrs. ☐ Other

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

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:
Relinquished by: Tianzhen Nie	Date 12/2/21	Time 13:00	Received by:	Relinquished by:	Date 12-3-21	Time 1135	Received at lab by: Dawn Hoffman

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

See reverse side for Container Preservative and Sampling Information

98381

2/2

APPL LABS

APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611 #2

CHAIN OF CUSTODY RECORD

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

C.O.C. 50093 NOI

Report to: PLEASE PRINT	Invoice to: PLEASE PRINT
Company Name: AECOM Phone: (808)521-3051	Company Name: AECOM Phone: (808)521-3051
Address: 1001 Bishop st suite 1600 Honolulu, HI 96813 Fax:	Address: 1001 Bishop St, Suite 1600 Honolulu, HI 96813 Fax:
Attn: Alethea Ramos ; Alethea.Ramos@aecom.com	Attn: ~~Sheree Smith~~ Sheree.Smith@aecom.com USAImaging@aecom.com

Project Name/Number: 60571032.02.2601
Sampler (Print): GM, MY, NL
Purchase Order Number: 102601
Sampler (Signature): [signature] for GM, MY, NL

Date Shipped: 12/2/21
Carrier: Fedex
Waybill No.:
Comments: Note: Log NOI in separate SDG's from other COC's. TPH-d/o and PAH's need liquid-liquid extraction! *Naphthalene, 1-methylnaphthalene, 2-methylnaphthalene

Sample Identification	Location	Date Collected	Time Collected	Time Zone	No. of Containers	Aq	Sed.	Soil	BTEX by 8260	TPH-G by 8260	TPH-d/o by 8015	TPH-d/o SGC 8015	PAH Short list by 8270 SIM	TOC by 9060
ERH2001	Trip Blank	12/1/21	1050	HST	0	X			X	X				
ERH2002	RHMW01R	↓	~~0955~~ 1107	↓	0	X			X	X	X	X	X*	X
ERH2011	RHMW05		~~1515~~ 950		0	X								X
ERH2013	RHMW08		~~1212~~ 1525		0	X								X
~~ERH2014~~ nh 12/1/21		~~nh 12/2/21~~	~~1215~~ 1212											
ERH2004	Trip Blank		~~1315~~ 1212		0	X			X	X				
ERH2005	RHMW02		~~1225~~ 1215		4	X			X	X	X	X	X*	X
ERH2007	Trip Blank		~~0945~~ 1315		0	X			X	X				
ERH2008	RHMW03		1325		4	X			X	X	X	X	X*	X
ERH2018	RHMW2254-01		0945		0	X								X
ERH2020	OWDFMW01	↓	1330	↓	0	X								X

Shuttle Temperature: R3: 2.0/0.1°C

Turnaround Requested: Check one ☐ Standard 2-3 wk ☑ One week ☐ 24/48 Hrs. ☐ Other

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

Relinquished by sampler:	Date	Time	Received by:	Relinquished by:	Date	Time	Received by:

Relinquished by:	Date	Time	Received by:	Relinquished by:	Date	Time	Received at lab by:
Alex Edmonds					12-3-21	1135	Dallas Hornof

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

See reverse side for Container Preservative and Sampling Information

COOLER RECEIPT FORM **ARF: 98381**

1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 12/3/2021

2) Coolers: Number of Coolers: 2

3) YES Were custody seals present and intact?
How many? 4 Name/Date on seal? SEE BELOW

4) YES Was there a shipping slip? Carrier name: FEDEX

5) Type of packing in cooler: X bubble wrap __ popcorn __ foam X plastic bags __ other
X wet ice __ dry ice __ no ice __ gel ice

6) YES Were cooler temperatures acceptable?

7) Serial number of calibrated thermometer used: R3 CF:-1.9°C

8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp
1: 2.0/0.1 2: 2.0/0.1 3: ____ 4: ____ 5: ____ 6: ____
7: ____ 8: ____ 9: ____ 10: ____ 11: ____ 12: ____

Chain of custody:

9) YES Was a chain of custody received?

10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)?

12) YES Did all container labels agree with custody papers?

Sample Containers:

13) YES Were all containers sealed in separate bags?

14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?

15) YES Were correct containers and preservatives used for the tests indicated?

16) YES Was a sufficient amount of sample sent for tests indicated?

17) NA Were bubbles present in volatile samples?
If yes, the following were received with air bubbles:
Larger than a pea: ____
Smaller than a pea: BA47127W W04, BA47133W W04, BA47134W W05-W06, BA47136W W01-W02

Preservation _Hold time:

18) Yes Was a sufficient amount of holding time remaining to analyze the samples?

19) Yes Was the pH taken of all non-VOA preserved samples and written on the sample container?

20) Yes Was the pH of acid preserved non-VOA samples < 2?

21) NA Was the pH of the "basic" preserved samples for Cyanide > 12, Sulfide >9, Hexchrom >9?

22) NO Were unpreserved VOA Vials received for VOA Dept analysis?

23) NA If "yes", are the unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?
pH strip lot number: HC046681
Lab notified if pH was not adequate: ____

Notes/Deficiencies:

APL CUSTODY SEAL LOT
AECOM (808) 521-3051
Initials JH Date 12/2/21

Personnel receiving samples: DH Second reviewer: MS
Personnel labeling samples: CH
Project manager notified: DH Date/Time of notification 12/3/2021
Name of client notified: ____ Date/Time of notification ____

SAMPLE RESULTS

EPA 8015B TPH WATER L-L SGC

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2002

APPL ID: BA47128

Sample Collection Date: 12/01/21

QCG: #DOC53-211207A-271604

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/07/21	12/13/21
EPA 8015B-e	OIL (C24-C40)	210 J	320	300.0	150.0	ug/L	12/07/21	12/13/21
EPA 8015B-e	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	12/07/21	12/13/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	87.3	60-142			%	12/07/21	12/13/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	68.0	56-125			%	12/07/21	12/13/21

J = Estimated value.

Quant Method:	DEC0911.M
Run #:	1213011
Instrument:	Apollo
Sequence:	211213
Dilution Factor:	1
Initials:	KAB

Printed: 12/15/2021 3:36:52 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2002

APPL ID: BA47128

Sample Collection Date: 12/01/21

QCG: #DOC53-211207A1-271605

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	290 J	320	300.0	150.0	ug/L	12/07/21	12/13/21
EPA 8015B-e	OIL (C24-C40)	290 J	320	300.0	150.0	ug/L	12/07/21	12/13/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	105	60-142			%	12/07/21	12/13/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	82.5	56-125			%	12/07/21	12/13/21

J = Estimated value.

Quant Method:	DOC1212.M
Run #:	1213017
Instrument:	Apollo
Sequence:	211213
Dilution Factor:	1
Initials:	KAB

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH WATER L-L SGC

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1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2005

APPL ID: BA47132

Sample Collection Date: 12/01/21

QCG: #DOC53-211207A-271604

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	430	320	300.0	150.0	ug/L	12/07/21	12/13/21
EPA 8015B-e	OIL (C24-C40)	160 J	320	300.0	150.0	ug/L	12/07/21	12/13/21
EPA 8015B-e	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	12/07/21	12/13/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	99.2	60-142			%	12/07/21	12/13/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	79.6	56-125			%	12/07/21	12/13/21

J = Estimated value.

Quant Method:	DEC0911.M
Run #:	1213012
Instrument:	Apollo
Sequence:	211213
Dilution Factor:	1
Initials:	KAB

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

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1001 Bishop Street, Suite 1600
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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2005

APPL ID: BA47132

Sample Collection Date: 12/01/21

QCG: #DOC53-211207A1-271605

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	1700	320	300.0	150.0	ug/L	12/07/21	12/14/21
EPA 8015B-e	OIL (C24-C40)	410	320	300.0	150.0	ug/L	12/07/21	12/14/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	112	60-142			%	12/07/21	12/14/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	90.1	56-125			%	12/07/21	12/14/21

Quant Method:	DOC1212.M
Run #:	1213018
Instrument:	Apollo
Sequence:	211213
Dilution Factor:	1
Initials:	KAB

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH WATER L-L SGC

AECOM
1001 Bishop Street, Suite 1600
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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2008

APPL ID: BA47134

Sample Collection Date: 12/01/21

QCG: #DOC53-211207A-271604

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/07/21	12/13/21
EPA 8015B-e	OIL (C24-C40)	160 J	320	300.0	150.0	ug/L	12/07/21	12/13/21
EPA 8015B-e	SURROGATE: (R) DECANOIC ACID (S)	0.0	0-1			%	12/07/21	12/13/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	89.7	60-142			%	12/07/21	12/13/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	71.7	56-125			%	12/07/21	12/13/21

J = Estimated value.

Quant Method:	DEC0911.M
Run #:	1213013
Instrument:	Apollo
Sequence:	211213
Dilution Factor:	1
Initials:	KAB

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2008

APPL ID: BA47134

Sample Collection Date: 12/01/21

QCG: #DOC53-211207A1-271605

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	180 J	320	300.0	150.0	ug/L	12/07/21	12/14/21
EPA 8015B-e	OIL (C24-C40)	310 J	320	300.0	150.0	ug/L	12/07/21	12/14/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	108	60-142			%	12/07/21	12/14/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	86.2	56-125			%	12/07/21	12/14/21

J = Estimated value.

Quant Method:	DOC1212.M
Run #:	1213019
Instrument:	Apollo
Sequence:	211213
Dilution Factor:	1
Initials:	KAB

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2002 BLANK

APPL ID: BA47137

Sample Collection Date: 12/01/21

QCG: #RHBLK-211206A-271653

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/07/21	12/14/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	12/07/21	12/14/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	106	60-142			%	12/07/21	12/14/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	86.0	56-125			%	12/07/21	12/14/21

Quant Method:	DOC1212.M
Run #:	1213049
Instrument:	Apollo
Sequence:	211213
Dilution Factor:	1
Initials:	KAB

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

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908 North Temperance Avenue
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Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2005 BLANK

APPL ID: BA47138

Sample Collection Date: 12/01/21

QCG: #RHBLK-211206A-271653

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/07/21	12/14/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	12/07/21	12/14/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	103	60-142			%	12/07/21	12/14/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	83.1	56-125			%	12/07/21	12/14/21

Quant Method:	DOC1212.M
Run #:	1213050
Instrument:	Apollo
Sequence:	211213
Dilution Factor:	1
Initials:	KAB

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8015B TPH LIQ-LIQ

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908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2008 BLANK

APPL ID: BA47139

Sample Collection Date: 12/01/21

QCG: #RHBLK-211206A-271653

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-e	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/07/21	12/15/21
EPA 8015B-e	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	12/07/21	12/15/21
EPA 8015B-e	SURROGATE: OCTACOSANE (S)	103	60-142			%	12/07/21	12/15/21
EPA 8015B-e	SURROGATE: ORTHO-TERPHENYL (S)	83.7	56-125			%	12/07/21	12/15/21

Quant Method:	DOC1212.M
Run #:	1213051
Instrument:	Apollo
Sequence:	211213
Dilution Factor:	1
Initials:	KAB

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

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APPL Inc.
908 North Temperance Avenue
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Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2002

APPL ID: BA47128

Sample Collection Date: 12/01/21

QCG: #SIM53-211206AK-271455

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	12/06/21	12/08/21
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	12/06/21	12/08/21
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	12/06/21	12/08/21
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	105	39-114			%	12/06/21	12/08/21
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	85.1	58-120			%	12/06/21	12/08/21

Quant Method: K1019.M
Run #: 1124K186
Instrument: KYLO
Sequence: 211124
Dilution Factor: 1
Initials: LSI

Printed: 1/3/2022 9:55:46 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

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908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2005

APPL ID: BA47132

Sample Collection Date: 12/01/21

QCG: #SIM53-211206AK-271455

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	16	0.2	0.10	0.04	ug/L	12/06/21	12/08/21
8270D-SIM	2-METHYLNAPHTHALENE	13	0.2	0.10	0.04	ug/L	12/06/21	12/08/21
8270D-SIM	NAPHTHALENE	35	0.2	0.10	0.04	ug/L	12/06/21	12/08/21
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	97.9	39-114			%	12/06/21	12/08/21
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	86.5	58-120			%	12/06/21	12/08/21

Quant Method: K1019.M
Run #: 1124K187
Instrument: KYLO
Sequence: 211124
Dilution Factor: 1
Initials: LSI

Printed: 1/3/2022 9:55:46 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D SIM LIQ-LIQ

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APPL Inc.
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Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2008

APPL ID: BA47134

Sample Collection Date: 12/01/21

QCG: #SIM53-211206AK-271455

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	12/06/21	12/08/21
8270D-SIM	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	12/06/21	12/08/21
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	12/06/21	12/08/21
8270D-SIM	SURROGATE: 2-METHYLNAPHTHALEN	93.9	39-114			%	12/06/21	12/08/21
8270D-SIM	SURROGATE: FLUORANTHENE-D10 (S	87.8	58-120			%	12/06/21	12/08/21

Quant Method: K1019.M
Run #: 1124K188
Instrument: KYLO
Sequence: 211124
Dilution Factor: 1
Initials: LSI

Printed: 1/3/2022 9:55:46 AM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2001

APPL ID: BA47127

Sample Collection Date: 12/01/21

QCG: #86BTO-AZ211207-271380

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/07/21	12/07/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	112	81-118			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.8	85-114			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	109	80-119			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	99.2	89-112			%	12/07/21	12/07/21

Quant Method: Z120621W.M
Run #: 1207Z22
Instrument: Zeus
Sequence: 211206
Dilution Factor: 1
Initials: PAN

Printed: 12/10/2021 10:36:06 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

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Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2002

APPL ID: BA47128

Sample Collection Date: 12/01/21

QCG: #86BTO-AZ211207-271380

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/07/21	12/07/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	114	81-118			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	112	80-119			%	12/07/21	12/07/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	101	89-112			%	12/07/21	12/07/21

Quant Method: Z120621W.M
Run #: 1207Z23
Instrument: Zeus
Sequence: 211206
Dilution Factor: 1
Initials: PAN

Printed: 12/10/2021 10:36:06 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2004

APPL ID: BA47131

Sample Collection Date: 12/01/21

QCG: #86BTO-AZ211207-271380

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/08/21	12/08/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	112	81-118			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.9	85-114			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	111	80-119			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	100	89-112			%	12/08/21	12/08/21

Quant Method: Z120621W.M
Run #: 1207Z24
Instrument: Zeus
Sequence: 211206
Dilution Factor: 1
Initials: PAN

Printed: 12/10/2021 10:36:06 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
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APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2005

APPL ID: BA47132

Sample Collection Date: 12/01/21

QCG: #86BTO-AZ211207-271380

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/08/21	12/08/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	116	81-118			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	112	80-119			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	100.0	89-112			%	12/08/21	12/08/21

Quant Method: Z120621W.M
Run #: 1207Z25
Instrument: Zeus
Sequence: 211206
Dilution Factor: 1
Initials: PAN

Printed: 12/10/2021 10:36:06 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2007

APPL ID: BA47133

Sample Collection Date: 12/01/21

QCG: #86BTO-AZ211207-271380

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/08/21	12/08/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	114	81-118			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	101	85-114			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	108	80-119			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	101	89-112			%	12/08/21	12/08/21

Quant Method: Z120621W.M
Run #: 1207Z26
Instrument: Zeus
Sequence: 211206
Dilution Factor: 1
Initials: PAN

Printed: 12/10/2021 10:36:06 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B BTEX WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2008

APPL ID: BA47134

Sample Collection Date: 12/01/21

QCG: #86BTO-AZ211207-271380

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/08/21	12/08/21
EPA 8260B	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/08/21	12/08/21
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	110	81-118			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.3	85-114			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: DIBROMOFLUOROMETH	106	80-119			%	12/08/21	12/08/21
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	98.1	89-112			%	12/08/21	12/08/21

Quant Method: Z120621W.M
Run #: 1207Z27
Instrument: Zeus
Sequence: 211206
Dilution Factor: 1
Initials: PAN

Printed: 12/10/2021 10:36:06 AM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2001

APPL ID: BA47127

Sample Collection Date: 12/01/21

QCG: #GRO86-211207AZ-271513

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.8	85-114			%	12/07/21	12/07/21

Quant Method:	ZGAS1206.M
Run #:	1207Z22
Instrument:	Zeus
Sequence:	211206
Dilution Factor:	1
Initials:	PAN

Printed: 12/10/2021 12:09:25 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2002

APPL ID: BA47128

Sample Collection Date: 12/01/21

QCG: #GRO86-211207AZ-271513

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	12/07/21	12/07/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	102	85-114			%	12/07/21	12/07/21

Quant Method:	ZGAS1206.M
Run #:	1207Z23
Instrument:	Zeus
Sequence:	211206
Dilution Factor:	1
Initials:	PAN

Printed: 12/10/2021 12:09:25 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2004

APPL ID: BA47131

Sample Collection Date: 12/01/21

QCG: #GRO86-211207AZ-271513

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	12/08/21	12/08/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.9	85-114			%	12/08/21	12/08/21

Quant Method:	ZGAS1206.M
Run #:	1207Z24
Instrument:	Zeus
Sequence:	211206
Dilution Factor:	1
Initials:	PAN

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APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2005

APPL ID: BA47132

Sample Collection Date: 12/01/21

QCG: #GRO86-211207AZ-271513

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	58	20	18.0	8.6	ug/L	12/08/21	12/08/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	104	85-114			%	12/08/21	12/08/21

Quant Method:	ZGAS1206.M
Run #:	1207Z25
Instrument:	Zeus
Sequence:	211206
Dilution Factor:	1
Initials:	PAN

Printed: 12/10/2021 12:09:25 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2007

APPL ID: BA47133

Sample Collection Date: 12/01/21

QCG: #GRO86-211207AZ-271513

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	12/08/21	12/08/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	101	85-114			%	12/08/21	12/08/21

Quant Method:	ZGAS1206.M
Run #:	1207Z26
Instrument:	Zeus
Sequence:	211206
Dilution Factor:	1
Initials:	PAN

Printed: 12/10/2021 12:09:25 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8260B GRO WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

ARF: 98381

Sample ID: ERH2008

APPL ID: BA47134

Sample Collection Date: 12/01/21

QCG: #GRO86-211207AZ-271513

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	12/08/21	12/08/21
EPA 8260B	SURROGATE: 4-BROMOFLUOROBENZ	98.3	85-114			%	12/08/21	12/08/21

Quant Method:	ZGAS1206.M
Run #:	1207Z27
Instrument:	Zeus
Sequence:	211206
Dilution Factor:	1
Initials:	PAN

Printed: 12/10/2021 12:09:25 PM

APPL-F1-SC-NoMC-REG MDLs-DOD

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH2002

APPL ID: BA47128

Sample Collection Date: 12/1/2021

ARF: 98381

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	7.5	0.93	0.350	0.130	mg/L	1	12/06/21	12/06/21

Printed: 12/8/2021 8:02:44 AM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH2011

APPL ID: BA47129

Sample Collection Date: 12/1/2021

ARF: 98381

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	1.2	0.93	0.350	0.130	mg/L	1	12/06/21	12/06/21

Printed: 12/8/2021 8:02:44 AM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH2013

APPL ID: BA47130

Sample Collection Date: 12/1/2021

ARF: 98381

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	0.53 J	0.93	0.350	0.130	mg/L	1	12/06/21	12/06/21

J = Estimated value.

Printed: 12/8/2021 8:02:44 AM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH2005

APPL ID: BA47132

Sample Collection Date: 12/1/2021

ARF: 98381

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	2.3	0.93	0.350	0.130	mg/L	1	12/07/21	12/07/21

Printed: 12/8/2021 8:02:44 AM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH2008

APPL ID: BA47134

Sample Collection Date: 12/1/2021

ARF: 98381

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	7.9	0.93	0.350	0.130	mg/L	1	12/06/21	12/06/21

Printed: 12/8/2021 8:02:44 AM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH2018

APPL ID: BA47135

Sample Collection Date: 12/1/2021

ARF: 98381

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	0.24 J	0.93	0.350	0.130	mg/L	1	12/07/21	12/07/21

J = Estimated value.

Printed: 12/8/2021 8:02:44 AM

APPL-F1-SC-NoMC-REG MDLs

Wet Lab Analysis

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Alethea Ramos

Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH2020

APPL ID: BA47136

Sample Collection Date: 12/1/2021

ARF: 98381

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
SW846 9060A	TOTAL ORGANIC CARBON	0.52 J	0.93	0.350	0.130	mg/L	1	12/06/21	12/06/21

J = Estimated value.

Printed: 12/8/2021 8:02:44 AM

APPL-F1-SC-NoMC-REG MDLs

QC FORMS

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/13/2021

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: (R) DECANOIC ACID (S)			SURROGATE: OCTACOSANE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211207A-BLK	Blank	0-1	0.0		60-142	101	
211207A-LCS	Lab Control Spike	0-1	0.0		60-142	84.7	
211207A-LCSD	Lab Control SpikeD	0-1	0.0		60-142	96.0	
BA47128	ERH2002	0-1	0.0		60-142	87.3	
BA47132	ERH2005	0-1	0.0		60-142	99.2	
BA47134	ERH2008	0-1	0.0		60-142	89.7	

Comments: Batch: #DOC53-211207A

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/13/2021

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: ORTHO-TERPHENYL (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
211207A-BLK	Blank	56-125	81.2				
211207A-LCS	Lab Control Spike	56-125	77.3				
211207A-LCSD	Lab Control SpikeD	56-125	87.3				
BA47128	ERH2002	56-125	68.0				
BA47132	ERH2005	56-125	79.6				
BA47134	ERH2008	56-125	71.7				

Comments: Batch: #DOC53-211207A

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/13/2021

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211207A1-BLK	Blank	60-142	108		56-125	88.3	
211207A1-LCS	Lab Control Spike	60-142	111		56-125	103	
BA47128	ERH2002	60-142	105		56-125	82.5	
BA47132	ERH2005	60-142	112		56-125	90.1	
BA47134	ERH2008	60-142	108		56-125	86.2	
211207A1-LCSD	Lab Control SpikeD	60-142	105		56-125	94.0	

Comments: Batch: #DOC53-211207A1

EPA 8015B-eHL

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/14/2021

Matrix: WATER Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211206A-BLK	Blank	60-142	99.7		56-125	82.0	
211206A-LCS	Lab Control Spike	60-142	109		56-125	88.0	
211206A-LCSD	Lab Control SpikeD	60-142	104		56-125	84.0	
BA47137	ERH2002 BLANK	60-142	106		56-125	86.0	
BA47138	ERH2005 BLANK	60-142	103		56-125	83.1	
BA47139	ERH2008 BLANK	60-142	103		56-125	83.7	

Comments: Batch: #RHBLK-211206A

EPA 8015B-eH

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/13/2021

Matrix: WATER Instrument: Apollo

Blank ID: 211207A-BLK Time Analyzed: 1641

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211207A-BLK	Blank	1213008	12/13/2021 1641
211207A-LCS	Lab Control Spike	1213009	12/13/2021 1709
211207A-LCSD	Lab Control SpikeD	1213010	12/13/2021 1737
BA47128	ERH2002	1213011	12/13/2021 1806
BA47132	ERH2005	1213012	12/13/2021 1834
BA47134	ERH2008	1213013	12/13/2021 1902

Comments: Batch: #DOC53-211207A

EPA 8015B-eH

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	98381
Case No:	98381	Date Analyzed:	12/13/2021
Matrix:	WATER	Instrument:	Apollo
Blank ID:	211207A1-BLK	Time Analyzed:	1930

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211207A1-BLK	Blank	1213014	12/13/2021 1930
211207A1-LCS	Lab Control Spike	1213015	12/13/2021 1958
BA47128	ERH2002	1213017	12/13/2021 2055
BA47132	ERH2005	1213018	12/14/2021 0844
BA47134	ERH2008	1213019	12/14/2021 0912
211207A1-LCSD	Lab Control SpikeD	1213022	12/13/2021 2027

Comments: Batch: #DOC53-211207A1

EPA 8015B-eH

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/14/2021

Matrix: WATER Instrument: Apollo

Blank ID: 211206A-BLK Time Analyzed: 2203

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211206A-BLK	Blank	1213046	12/14/2021 2203
211206A-LCS	Lab Control Spike	1213047	12/14/2021 2231
211206A-LCSD	Lab Control SpikeD	1213048	12/14/2021 2259
BA47137	ERH2002 BLANK	1213049	12/14/2021 2327
BA47138	ERH2005 BLANK	1213050	12/14/2021 2355
BA47139	ERH2008 BLANK	1213051	12/15/2021 0023

Comments: Batch: #RHBLK-211206A

Method Blank
EPA 8015B TPH WATER L-L SGC

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **211207W-47128 - 271604**
Batch ID: #DOC53-211207A

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/7/2021	12/13/2021
BLANK	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	12/7/2021	12/13/2021
BLANK	SURROGATE: (R) DECANOIC AC	0.0	0-1			%	12/7/2021	12/13/2021
BLANK	SURROGATE: OCTACOSANE (S)	101	60-142			%	12/7/2021	12/13/2021
BLANK	SURROGATE: ORTHO-TERPHEN	81.2	56-125			%	12/7/2021	12/13/2021

Quant Method: DEC0911.M
Run #: 1213008
Instrument: Apollo
Sequence: 211213
Initials: KAB

GC SC-Blank-REG MDLs-DOD
Printed: 12/15/2021 3:38:05 PM

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **211207W-47128 - 271605**
Batch ID: #DOC53-211207A1

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/7/2021	12/13/2021
BLANK	OIL (C24-C40)	300.0 U	320	300.0	150.0	ug/L	12/7/2021	12/13/2021
BLANK	SURROGATE: OCTACOSANE (S)	108	60-142			%	12/7/2021	12/13/2021
BLANK	SURROGATE: ORTHO-TERPHEN	88.3	56-125			%	12/7/2021	12/13/2021

Quant Method: DOC1212.M
Run #: 1213014
Instrument: Apollo
Sequence: 211213
Initials: KAB

GC SC-Blank-REG MDLs-DOD
Printed: 12/15/2021 3:38:05 PM

Method Blank
EPA 8015B TPH LIQ-LIQ

Blank Name/QCG: **211206W-47137 - 271653**
Batch ID: #RHBLK-211206A

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL (C10-C24)	300.0 U	320	300.0	150.0	ug/L	12/7/2021	12/14/2021
BLANK	OIL (C24-C40)	160 J	320	300.0	150.0	ug/L	12/7/2021	12/14/2021
BLANK	SURROGATE: OCTACOSANE (S)	99.7	60-142			%	12/7/2021	12/14/2021
BLANK	SURROGATE: ORTHO-TERPHEN	82.0	56-125			%	12/7/2021	12/14/2021

J = Estimated value.

Quant Method: DOC1212.M
Run #: 1213046
Instrument: Apollo
Sequence: 211213
Initials: KAB

GC SC-Blank-REG MDLs-DOD
Printed: 12/20/2021 8:47:20 AM

EPA 8015B-eH

Form 4

LCS Summary

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/13/2021

Matrix: WATER Instrument: Apollo

LCS ID: 211207A-LCS Time Analyzed: 1709

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211207A-BLK	Blank	1213008	12/13/2021 1641
211207A-LCS	Lab Control Spike	1213009	12/13/2021 1709
211207A-LCSD	Lab Control SpikeD	1213010	12/13/2021 1737
BA47128	ERH2002	1213011	12/13/2021 1806
BA47132	ERH2005	1213012	12/13/2021 1834
BA47134	ERH2008	1213013	12/13/2021 1902

Comments: Batch: #DOC53-211207A

EPA 8015B-eH

Form 4

LCS Summary

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/13/2021

Matrix: WATER Instrument: Apollo

LCS ID: 211207A1-LCS Time Analyzed: 1958

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211207A1-BLK	Blank	1213014	12/13/2021 1930
211207A1-LCS	Lab Control Spike	1213015	12/13/2021 1958
BA47128	ERH2002	1213017	12/13/2021 2055
BA47132	ERH2005	1213018	12/14/2021 0844
BA47134	ERH2008	1213019	12/14/2021 0912
211207A1-LCSD	Lab Control SpikeD	1213022	12/13/2021 2027

Comments: Batch: #DOC53-211207A1

EPA 8015B-eH

Form 4

LCS Summary

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/14/2021

Matrix: WATER Instrument: Apollo

LCS ID: 211206A-LCS Time Analyzed: 2231

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211206A-BLK	Blank	1213046	12/14/2021 2203
211206A-LCS	Lab Control Spike	1213047	12/14/2021 2231
211206A-LCSD	Lab Control SpikeD	1213048	12/14/2021 2259
BA47137	ERH2002 BLANK	1213049	12/14/2021 2327
BA47138	ERH2005 BLANK	1213050	12/14/2021 2355
BA47139	ERH2008 BLANK	1213051	12/15/2021 0023

Comments: Batch: #RHBLK-211206A

Laboratory Control Spike Recoveries
EPA 8015B TPH WATER L-L SGC

APPL ID: **211207W-47128 LCS - 271604**
Batch ID: #DOC53-211207A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	2000	1360	1530	68.0	76.5	36-132	11.8	30
OIL (C24-C40)	2000	1680	2030	84.0	102	41-113	18.9	30
SURROGATE: (R) DECANOIC ACID (S)	10.00	0	0	0.0	0.0	0-1		
SURROGATE: OCTACOSANE (S)	150	127	144	84.7	96.0	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	116	131	77.3	87.3	56-125		

Comments:

Primary	SPK	DUP
Quant Method :	DEC0911.M	DEC0911.M
Extraction Date :	12/7/2021	12/7/2021
Analysis Date :	12/13/2021	12/13/2021
Instrument :	Apollo	Apollo
Run :	1213009	1213010
Initials :	KAB	

Laboratory Control Spike Recoveries
EPA 8015B TPH LIQ-LIQ

APPL ID: **211207W-47128 LCS - 271605**
Batch ID: #DOC53-211207A1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	2000	1870	1730	93.5	86.5	36-132	7.8	30
OIL (C24-C40)	2000	2190	2220	110	111	41-113	1.4	30
SURROGATE: OCTACOSANE (S)	150	167	157	111	105	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	154	141	103	94.0	56-125		

Comments:

Primary	SPK	DUP
Quant Method :	DOC1212.M	DOC1212.M
Extraction Date :	12/7/2021	12/7/2021
Analysis Date :	12/13/2021	12/13/2021
Instrument :	Apollo	Apollo
Run :	1213015	1213022
Initials :	KAB	

Laboratory Control Spike Recoveries
EPA 8015B TPH LIQ-LIQ

APPL ID: **211207W-47137 LCS - 271653**
Batch ID: #RHBLK-211206A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL (C10-C24)	0	76.6	83.9	NA	NA	36-132		30
OIL (C24-C40)	0	128	127	NA	NA	41-113		30
SURROGATE: OCTACOSANE (S)	150	163	156	109	104	60-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	132	126	88.0	84.0	56-125		

Comments:

Primary	SPK	DUP
Quant Method :	DOC1212.M	DOC1212.M
Extraction Date :	12/7/2021	12/7/2021
Analysis Date :	12/14/2021	12/14/2021
Instrument :	Apollo	Apollo
Run :	1213047	1213048
Initials :	KAB	

8270D-SIM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/8/2021

Matrix: WATER Instrument: KYLO

APPL ID.	Client Sample No.	SURROGATE: 2-METHYLNAPHTHALENE-D10 (S)			SURROGATE: FLUORANTHENE-D10 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
211206AK-BLK	Blank	39-114	107		58-120	104	
211206AK-LCS	Lab Control Spike	39-114	105		58-120	102	
211206AK-LCSD	Lab Control SpikeD	39-114	96.4		58-120	96.2	
BA47128	ERH2002	39-114	105		58-120	85.1	
BA47132	ERH2005	39-114	97.9		58-120	86.5	
BA47134	ERH2008	39-114	93.9		58-120	87.8	

Comments: Batch: #SIM53-211206AK

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/8/2021

Matrix: WATER Instrument: KYLO

Blank ID: 211206AK-BLK Time Analyzed: 1255

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211206AK-BLK	Blank	1124K183	12/8/2021 1255
211206AK-LCS	Lab Control Spike	1124K184	12/8/2021 1315
211206AK-LCSD	Lab Control SpikeD	1124K185	12/8/2021 1335
BA47128	ERH2002	1124K186	12/8/2021 1355
BA47132	ERH2005	1124K187	12/8/2021 1415
BA47134	ERH2008	1124K188	12/8/2021 1435

Comments: Batch: #SIM53-211206AK

Method Blank
EPA 8270D SIM LIQ-LIQ

Blank Name/QCG: **211206W-47128 - 271455**
Batch ID: #SIM53-211206AK

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	12/6/2021	12/8/2021
BLANK	2-METHYLNAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	12/6/2021	12/8/2021
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.04	ug/L	12/6/2021	12/8/2021
BLANK	SURROGATE: 2-METHYLNAPHT	107	39-114			%	12/6/2021	12/8/2021
BLANK	SURROGATE: FLUORANTHENE-	104	58-120			%	12/6/2021	12/8/2021

Quant Method:K1019.M
Run #:1124K183
Instrument:KYLO
Sequence:211124
Initials:LSI

GC SC-Blank-REG MDLs-DOD
Printed: 1/3/2022 9:31:11 AM

8270D-SIM

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	98381
Case No:	98381	Date Analyzed:	12/8/2021
Matrix:	WATER	Instrument:	KYLO
LCS ID:	211206AK-LCS	Time Analyzed:	1315

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211206AK-BLK	Blank	1124K183	12/8/2021 1255
211206AK-LCS	Lab Control Spike	1124K184	12/8/2021 1315
211206AK-LCSD	Lab Control SpikeD	1124K185	12/8/2021 1335
BA47128	ERH2002	1124K186	12/8/2021 1355
BA47132	ERH2005	1124K187	12/8/2021 1415
BA47134	ERH2008	1124K188	12/8/2021 1435

Comments: Batch: #SIM53-211206AK

Laboratory Control Spike Recoveries
EPA 8270D SIM LIQ-LIQ

APPL ID: **211206W-47128 LCS - 271455**
Batch ID: #SIM53-211206AK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	5.00	4.86	4.50	97.2	90.0	41-115	7.7	20
2-METHYLNAPHTHALENE	5.00	4.87	4.52	97.4	90.4	39-114	7.5	20
NAPHTHALENE	5.00	4.82	4.41	96.4	88.2	43-114	8.9	20
SURROGATE: 2-METHYLNAPHTHALEN	5.00	5.26	4.82	105	96.4	39-114		
SURROGATE: FLUORANTHENE-D10 (S)	5.00	5.11	4.81	102	96.2	58-120		

Comments:

Primary	SPK	DUP
Quant Method :	K1019.M	K1019.M
Extraction Date :	12/6/2021	12/6/2021
Analysis Date :	12/8/2021	12/8/2021
Instrument :	KYLO	KYLO
Run :	1124K184	1124K185
Initials :	LSI	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Water
ID: 1019K001.D

SDG No:
Date Analyzed: 10/19/2021
Instrument: KYLO
Time Analyzed: 13:58

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		0.1 ug/ml 10/10/21	1019K002.D	10/19/2021 14:09
2		0.2 ug/ml 10/10/21	1019K003.D	10/19/2021 14:29
3		0.5 ug/ml 10/10/21	1019K004.D	10/19/2021 14:49
4		1 ug/ml 10/10/21	1019K005.D	10/19/2021 15:09
5		5 ug/ml 10/10/21	1019K006.D	10/19/2021 15:29
6		10 ug/ml 10/10/21	1019K007.D	10/19/2021 15:49
7		50 ug/ml 10/10/21	1019K008.D	10/19/2021 16:09
8		100 ug/ml 10/10/21	1019K009.D	10/19/2021 16:29
9		SS ug/ml 10/10/21	1019K010.D	10/19/2021 16:49
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.1% of mass 198	36.8
68	0 - 2.05% of mass 69	1.7
70	0 - 2% of mass 69	0.4
127	10 - 80% of mass 198	54.6
197	0 - 2% of mass 198	0.2
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.5
275	10 - 60% of mass 198	23.2
365	1 - 100% of mass 198	2.5
441	0.01 - 24% of mass 442	13.9
442	50 - 500% of mass 198	73.4
443	15 - 24% of mass 442	18.4

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 98381
Case No: 98381 Date Analyzed: 12/8/2021
Matrix: Water Instrument: KYLO
ID: 1124K181.D Time Analyzed: 12:23

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		5 ug/ml 10/19/21 (2)	1124K182.D	12/8/2021 12:35
2	Blank	211206A BLK 1/1000	1124K183.D	12/8/2021 12:55
3	Lab Control Spike	211206A LCS-1 1/1000	1124K184.D	12/8/2021 13:15
4	Lab Control SpikeD	211206A LCSD-1 1/100	1124K185.D	12/8/2021 13:35
5	ERH2002	BA47128W08 1/950	1124K186.D	12/8/2021 13:55
6	ERH2005	BA47132W07 1/950	1124K187.D	12/8/2021 14:15
7	ERH2008	BA47134W07 1/950	1124K188.D	12/8/2021 14:35
8		5 ug/ml 10/19/21 (1)	1124K198.D	12/8/2021 17:54
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
51	9.95 - 80.1% of mass 198	34.4
68	0 - 2.05% of mass 69	1.5
70	0 - 2% of mass 69	0.5
127	10 - 80% of mass 198	54.9
197	0 - 2% of mass 198	0.6
198	100 - 100% of mass 198	100.0
199	5 - 9% of mass 198	6.6
275	10 - 60% of mass 198	22.4
365	1 - 100% of mass 198	2.4
441	0.01 - 24% of mass 442	14.2
442	50 - 500% of mass 198	73.9
443	15 - 24% of mass 442	19.2

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1124K182.D Date Analyzed: 8 Dec 21 12:35

Instrument ID: KYLO Time Analyzed: 8 Dec 21 12:35

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	10849	3.86	5183	5.79	7699	7.49
	UPPER LIMIT	21698	4.03	10366	5.96	15398	7.66
	LOWER LIMIT	5425	3.69	2592	5.62	3850	7.32
	SAMPLE NO.						
01	211206A BLK 1/1000	9005	3.86	4459	5.79	7484	7.49
02	211206A LCS-1 1/1000	9418	3.86	4684	5.79	7476	7.49
03	211206A LCSD-1 1/100	10355	3.86	5149	5.79	8051	7.49
04	BA47128W08 1/950	8663	3.86	4736	5.79	8016	7.49
05	BA47132W07 1/950	9657	3.86	4952	5.79	7888	7.49
06	BA47134W07 1/950	10703	3.86	5371	5.79	8370	7.49
07	5 ug/ml 10/19/21 (1)	12017	3.86	5994	5.79	9076	7.49
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 = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 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:

Lab Code: SDG No.:

Lab File ID (Standard): 1124K182.D Date Analyzed: 8 Dec 21 12:35

Instrument ID: KYLO Time Analyzed: 8 Dec 21 12:35

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

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	9489	10.55	9017	12.71		
	UPPER LIMIT	18978	10.72	18034	12.88		
	LOWER LIMIT	4745	10.38	4509	12.54		
	SAMPLE NO.						
01	211206A BLK 1/1000	8664	10.55	7951	12.72		
02	211206A LCS-1 1/1000	9062	10.54	8405	12.71		
03	211206A LCSD-1 1/100	9672	10.54	8981	12.71		
04	BA47128W08 1/950	9304	10.55	8545	12.71		
05	BA47132W07 1/950	9002	10.55	8476	12.71		
06	BA47134W07 1/950	9714	10.55	9088	12.71		
07	5 ug/ml 10/19/21 (1)	10959	10.54	10086	12.71		
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 = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

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

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/7/2021

Matrix: WATER Instrument: Zeus

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
AZ211207-LCS	Lab Control Spike	81-118	109		85-114	103	
AZ211207-LCSD	Lab Control SpikeD	81-118	109		85-114	102	
AZ211207-BLK	Blank	81-118	112		85-114	101	
BA47127	ERH2001	81-118	112		85-114	98.8	
BA47128	ERH2002	81-118	114		85-114	102	
BA47131	ERH2004	81-118	112		85-114	98.9	
BA47132	ERH2005	81-118	116		85-114	104	
BA47133	ERH2007	81-118	114		85-114	101	
BA47134	ERH2008	81-118	110		85-114	98.3	

Comments: Batch: #86BTO-AZ211207

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/7/2021

Matrix: WATER Instrument: Zeus

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
AZ211207-LCS	Lab Control Spike	80-119	99.2		89-112	102	
AZ211207-LCSD	Lab Control SpikeD	80-119	99.2		89-112	102	
AZ211207-BLK	Blank	80-119	105		89-112	100	
BA47127	ERH2001	80-119	109		89-112	99.2	
BA47128	ERH2002	80-119	112		89-112	101	
BA47131	ERH2004	80-119	111		89-112	100	
BA47132	ERH2005	80-119	112		89-112	100.0	
BA47133	ERH2007	80-119	108		89-112	101	
BA47134	ERH2008	80-119	106		89-112	98.1	

Comments: Batch: #86BTO-AZ211207

EPA 8260B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	98381
Case No:	98381	Date Analyzed:	12/7/2021
Matrix:	WATER	Instrument:	Zeus
Blank ID:	AZ211207-BLK	Time Analyzed:	1755

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ211207-LCS	Lab Control Spike	1207Z03	12/7/2021 1554
AZ211207-LCSD	Lab Control SpikeD	1207Z04	12/7/2021 1619
AZ211207-BLK	Blank	1207Z08	12/7/2021 1755
BA47127	ERH2001	1207Z22	12/7/2021 2331
BA47128	ERH2002	1207Z23	12/7/2021 2355
BA47131	ERH2004	1207Z24	12/8/2021 0018
BA47132	ERH2005	1207Z25	12/8/2021 0042
BA47133	ERH2007	1207Z26	12/8/2021 0107
BA47134	ERH2008	1207Z27	12/8/2021 0131

Comments: Batch: #86BTO-AZ211207

Method Blank
EPA 8260B BTEX WATER

Blank Name/QCG: **AZ2112W-46970 - 271380**
Batch ID: #86BTO-AZ211207

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	BENZENE	0.30 U	1.0	0.30	0.15	ug/L	12/7/2021	12/7/2021
BLANK	ETHYLBENZENE	0.50 U	1.0	0.50	0.23	ug/L	12/7/2021	12/7/2021
BLANK	TOLUENE	0.30 U	1.0	0.30	0.15	ug/L	12/7/2021	12/7/2021
BLANK	XYLENES (TOTAL)	0.30 U	2.0	0.30	0.15	ug/L	12/7/2021	12/7/2021
BLANK	SURROGATE: 1,2-DICHLOROET	112	81-118			%	12/7/2021	12/7/2021
BLANK	SURROGATE: 4-BROMOFLUORO	101	85-114			%	12/7/2021	12/7/2021
BLANK	SURROGATE: DIBROMOFLUOR	105	80-119			%	12/7/2021	12/7/2021
BLANK	SURROGATE: TOLUENE-D8 (S)	100	89-112			%	12/7/2021	12/7/2021

Quant Method:Z120621W.M
Run #:1207Z08
Instrument:Zeus
Sequence:211206
Initials:PAN

GC SC-Blank-REG MDLs-DOD
Printed: 12/10/2021 10:36:34 AM

EPA 8260B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	98381
Case No:	98381	Date Analyzed:	12/7/2021
Matrix:	WATER	Instrument:	Zeus
LCS ID:	AZ211207-LCS	Time Analyzed:	1554

APPL ID.	Client Sample No.	File ID.	Date Analyzed
AZ211207-LCS	Lab Control Spike	1207Z03	12/7/2021 1554
AZ211207-LCSD	Lab Control SpikeD	1207Z04	12/7/2021 1619
AZ211207-BLK	Blank	1207Z08	12/7/2021 1755
BA47127	ERH2001	1207Z22	12/7/2021 2331
BA47128	ERH2002	1207Z23	12/7/2021 2355
BA47131	ERH2004	1207Z24	12/8/2021 0018
BA47132	ERH2005	1207Z25	12/8/2021 0042
BA47133	ERH2007	1207Z26	12/8/2021 0107
BA47134	ERH2008	1207Z27	12/8/2021 0131

Comments: Batch: #86BTO-AZ211207

Laboratory Control Spike Recoveries
EPA 8260B BTEX WATER

APPL ID: **211207W-46970 LCS - 271380**
Batch ID: #86BTO-AZ211207

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
BENZENE	10.00	9.49	9.85	94.9	98.5	79-120	3.7	20
ETHYLBENZENE	10.00	10.0	10.4	100	104	79-121	3.9	20
TOLUENE	10.00	9.36	9.69	93.6	96.9	80-121	3.5	20
XYLENES (TOTAL)	30.0	29.8	30.8	99.3	103	79-121	3.3	20
SURROGATE: 1,2-DICHLOROETHANE-D	25.0	27.3	27.3	109	109	81-118		
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.7	25.5	103	102	85-114		
SURROGATE: DIBROMOFLUOROMETH	25.0	24.8	24.8	99.2	99.2	80-119		
SURROGATE: TOLUENE-D8 (S)	25.0	25.5	25.5	102	102	89-112		

Comments:

Primary	SPK	DUP
Quant Method :	Z120621W.M	Z120621W.M
Extraction Date :	12/7/2021	12/7/2021
Analysis Date :	12/7/2021	12/7/2021
Instrument :	Zeus	Zeus
Run :	1207Z03	1207Z04
Initials :	PAN	

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No:
Matrix: Water
ID: 1206Z16.D

SDG No:
Date Analyzed: 12/6/2021
Instrument: Zeus
Time Analyzed: 15:24

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		0.3ug/L VOC STD 12/6	1206Z17.D	12/6/2021 15:48
2		0.5ug/L VOC STD 12/6	1206Z18.D	12/6/2021 16:12
3		1ug/L VOC STD 12/6/2	1206Z19.D	12/6/2021 16:36
4		2ug/L VOC STD 12/6/2	1206Z20.D	12/6/2021 17:00
5		5ug/L VOC STD 12/6/2	1206Z21.D	12/6/2021 17:24
6		10ug/L VOC STD 12/6/	1206Z22.D	12/6/2021 17:48
7		20ug/L VOC STD 12/6/	1206Z23.D	12/6/2021 18:12
8		40ug/L VOC STD 12/6/	1206Z24.D	12/6/2021 18:36
9		100ug/L VOC STD 12/6	1206Z25.D	12/6/2021 19:00
10		(SS) 10ug/L VOC STD	1206Z27.D	12/6/2021 19:48
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	14 - 40% of mass 95	14.4
75	30 - 60% of mass 95	43.6
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	8.4
173	0 - 2.05% of mass 174	0.5
174	50 - 200% of mass 95	78.7
175	5 - 9.5% of mass 174	7.5
176	95 - 101% of mass 174	95.2
177	5 - 9% of mass 176	6.9

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1206Z22.D Date Analyzed: 12/06/21

Instrument ID: Zeus Time Analyzed: 17:48

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	407844	6.09	362313	9.59	125640	12.14
	UPPER LIMIT	815688	6.26	724626	9.76	251280	12.31
	LOWER LIMIT	203922	5.92	181157	9.42	62820	11.97
	SAMPLE NO.						
01	0.3ug/L VOC STD 12/6/	367811	6.09	347235	9.58	119472	12.14
02	0.5ug/L VOC STD 12/6/	366661	6.09	344388	9.58	116856	12.14
03	1ug/L VOC STD 12/6/21	371997	6.09	345148	9.58	117056	12.14
04	2ug/L VOC STD 12/6/21	388302	6.09	355796	9.58	125880	12.14
05	5ug/L VOC STD 12/6/21	398068	6.09	358845	9.58	126680	12.14
06	10ug/L VOC STD 12/6/2	407844	6.09	362313	9.59	125640	12.14
07	20ug/L VOC STD 12/6/2	429143	6.09	371190	9.58	127840	12.14
08	40ug/L VOC STD 12/6/2	438913	6.09	374368	9.58	124832	12.14
09	100ug/L VOC STD 12/6/	457473	6.09	388410	9.58	126216	12.14
10	(SS) 10ug/L VOC STD 1	412017	6.09	360860	9.58	119576	12.14
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 = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

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

Form 5
Tune Summary

Lab Name: APPL Inc. SDG No: 98381
Case No: 98381 Date Analyzed: 12/7/2021
Matrix: Water Instrument: Zeus
ID: 1207Z01.D Time Analyzed: 15:06

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1		211207A CCV 10ug/L	1207Z02.D	12/7/2021 15:30
2	Lab Control Spike	211207A LCS 10ug/L	1207Z03.D	12/7/2021 15:54
3	Lab Control SpikeD	211207A LCSD 10ug/L	1207Z04.D	12/7/2021 16:19
4	Blank	211207A BLK	1207Z08.D	12/7/2021 17:55
5	ERH2001	BA47127W02	1207Z22.D	12/7/2021 23:31
6	ERH2002	BA47128W02	1207Z23.D	12/7/2021 23:55
7	ERH2004	BA47131W02	1207Z24.D	12/8/2021 0:18
8	ERH2005	BA47132W02	1207Z25.D	12/8/2021 0:42
9	ERH2007	BA47133W02	1207Z26.D	12/8/2021 1:07
10	ERH2008	BA47134W02	1207Z27.D	12/8/2021 1:31
11		Ending CCV 10ug/L 12	1207Z30.D	12/8/2021 2:43
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e		
50	14 - 40% of mass 95	15.4
75	30 - 60% of mass 95	44.9
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	7.9
173	0 - 2.05% of mass 174	0.6
174	50 - 200% of mass 95	79.9
175	5 - 9.5% of mass 174	8.8
176	95 - 101% of mass 174	95.6
177	5 - 9% of mass 176	6.8

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract:

Lab Code: SDG No.:

Lab File ID (Standard): 1207Z02.D Date Analyzed: 12/07/21

Instrument ID: Zeus Time Analyzed: 15:30

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	419379	6.09	367662	9.58	124264	12.14
	UPPER LIMIT	838758	6.26	735324	9.75	248528	12.31
	LOWER LIMIT	209690	5.92	183831	9.41	62132	11.97
	SAMPLE NO.						
01	211207A CCV 10ug/L	419379	6.09	367662	9.58	124264	12.14
02	211207A LCS 10ug/L	424705	6.09	368999	9.58	123640	12.14
03	211207A LCSD 10ug/L	421428	6.09	365775	9.58	121584	12.14
04	211207A BLK	384177	6.09	351591	9.58	118712	12.14
05	BA47127W02	349672	6.09	331942	9.58	108368	12.14
06	BA47128W02	340943	6.09	324594	9.58	114528	12.14
07	BA47131W02	336633	6.09	321483	9.58	108368	12.14
08	BA47132W02	343342	6.09	327951	9.58	109872	12.14
09	BA47133W02	355797	6.09	331891	9.58	114432	12.14
10	BA47134W02	350501	6.09	329377	9.58	113520	12.15
11	Ending CCV 10ug/L 12/7	382625	6.09	342519	9.58	117488	12.14
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 = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

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

EPA 8260B

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/7/2021

Matrix: WATER Instrument: Zeus

APPL ID.	Client Sample No.	SURROGATE: 4-BROMOFLUOROBENZENE (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
211207AZ-LCS	Lab Control Spike	85-114	102				
211207AZ-LCSD	Lab Control SpikeD	85-114	102				
211207AZ-BLK	Blank	85-114	101				
BA47127	ERH2001	85-114	98.8				
BA47128	ERH2002	85-114	102				
BA47131	ERH2004	85-114	98.9				
BA47132	ERH2005	85-114	104				
BA47133	ERH2007	85-114	101				
BA47134	ERH2008	85-114	98.3				

Comments: Batch: #GRO86-211207AZ

EPA 8260B

Form 4

Blank Summary

Lab Name:	APPL, Inc.	SDG No:	98381
Case No:	98381	Date Analyzed:	12/7/2021
Matrix:	WATER	Instrument:	Zeus
Blank ID:	211207AZ-BLK	Time Analyzed:	1755

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211207AZ-LCS	Lab Control Spike	1207Z06	12/7/2021 1707
211207AZ-LCSD	Lab Control SpikeD	1207Z07	12/7/2021 1731
211207AZ-BLK	Blank	1207Z08	12/7/2021 1755
BA47127	ERH2001	1207Z22	12/7/2021 2331
BA47128	ERH2002	1207Z23	12/7/2021 2355
BA47131	ERH2004	1207Z24	12/8/2021 0018
BA47132	ERH2005	1207Z25	12/8/2021 0042
BA47133	ERH2007	1207Z26	12/8/2021 0107
BA47134	ERH2008	1207Z27	12/8/2021 0131

Comments: Batch: #GRO86-211207AZ

Method Blank
EPA 8260B GRO WATER

APPL Inc.
908 North Temperance Avenu
Clovis, CA 93611

Blank Name/QCG: **211207W-46970 - 271513**
Batch ID: #GRO86-211207AZ

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	GASOLINE RANGE ORGANICS	18.0 U	20	18.0	8.6	ug/L	12/7/2021	12/7/2021
BLANK	SURROGATE: 4-BROMOFLUORO	101	85-114			%	12/7/2021	12/7/2021

Quant Method: ZGAS1206.M
Run #: 1207Z08
Instrument: Zeus
Sequence: 211206
Initials: PAN

GC SC-Blank-REG MDLs-DOD
Printed: 12/10/2021 12:09:43 PM

EPA 8260B

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	98381
Case No:	98381	Date Analyzed:	12/7/2021
Matrix:	WATER	Instrument:	Zeus
LCS ID:	211207AZ-LCS	Time Analyzed:	1707

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211207AZ-LCS	Lab Control Spike	1207Z06	12/7/2021 1707
211207AZ-LCSD	Lab Control SpikeD	1207Z07	12/7/2021 1731
211207AZ-BLK	Blank	1207Z08	12/7/2021 1755
BA47127	ERH2001	1207Z22	12/7/2021 2331
BA47128	ERH2002	1207Z23	12/7/2021 2355
BA47131	ERH2004	1207Z24	12/8/2021 0018
BA47132	ERH2005	1207Z25	12/8/2021 0042
BA47133	ERH2007	1207Z26	12/8/2021 0107
BA47134	ERH2008	1207Z27	12/8/2021 0131

Comments: Batch: #GRO86-211207AZ

Laboratory Control Spike Recoveries
EPA 8260B GRO WATER

APPL ID: **211207W-46970 LCS - 271513**
Batch ID: #GRO86-211207AZ

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
GASOLINE RANGE ORGANICS	300	295	302	98.3	101	78-122	2.3	20
SURROGATE: 4-BROMOFLUOROBENZE	25.0	25.4	25.4	102	102	85-114		

Comments:

Primary	SPK	DUP
Quant Method :	ZGAS1206.M	ZGAS1206.M
Extraction Date :	12/7/2021	12/7/2021
Analysis Date :	12/7/2021	12/7/2021
Instrument :	Zeus	Zeus
Run :	1207Z06	1207Z07
Initials :	PAN	

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc. SDG No: 98381

Case No: 98381 Date Analyzed: 12/6/2021

Matrix: WATER Instrument: TICTOC

Blank ID: 211206A-BLK Time Analyzed: 1905

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211206A-LCS	Lab Control Spike	21	12/6/2021 1824
211206A-BLK	Blank	22	12/6/2021 1905
BA47129	ERH2011	24	12/6/2021 2108
BA47128	ERH2002	25	12/6/2021 2150
BA47130	ERH2013	26	12/6/2021 2232
BA47134	ERH2008	27	12/6/2021 2312
BA47136	ERH2020	28	12/6/2021 2352
BA47132	ERH2005	29	12/7/2021 0032
BA47135	ERH2018	30	12/7/2021 0113
211206A-LCSD	Lab Control SpikeD	32	12/7/2021 0314

Comments: Batch: #TOCW5-211206A

WETLAB BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SW846 90	TOTAL ORGANIC C	0.350 U	0.93	0.350	0.130	mg/L	12/06/21	12/06/21	#TOCW5-211206A-BA47126

Wetlab SC-Blank-REG MDLs
Printed: 12/8/2021 8:02:44 AM

SW846 9060A

Form 4

LCS Summary

Lab Name:	APPL, Inc.	SDG No:	98381
Case No:	98381	Date Analyzed:	12/6/2021
Matrix:	WATER	Instrument:	TICTOC
LCS ID:	211206A-LCS	Time Analyzed:	1824

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211206A-LCS	Lab Control Spike	21	12/6/2021 1824
211206A-BLK	Blank	22	12/6/2021 1905
BA47129	ERH2011	24	12/6/2021 2108
BA47128	ERH2002	25	12/6/2021 2150
BA47130	ERH2013	26	12/6/2021 2232
BA47134	ERH2008	27	12/6/2021 2312
BA47136	ERH2020	28	12/6/2021 2352
BA47132	ERH2005	29	12/7/2021 0032
BA47135	ERH2018	30	12/7/2021 0113
211206A-LCSD	Lab Control SpikeD	32	12/7/2021 0314

Comments: Batch: #TOCW5-211206A

Laboratory Control Spike Recoveries

WETLAB

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Lvl mg/L	SPK Res mg/L	DUP Res mg/L	SPK % Recov	DUP % Recov	RPD	RPD Max	QC Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group
SW846 90	TOTAL ORGANIC CARBO	5.00	5.31	5.11	106	102	3.8	20	80-120	12/06/21	12/06/21	12/07/21	12/07/21	#TOCW5-211206A-BA471

Comments:

ORGANICS
Calibration Data

TPH Extractables
DOC1212

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 12/12/2021
Matrix: Water Instrument: Apollo
Initials: LAC

			1212006.D	1212007.D	1212008.D	1212009.D	1212010.D	1212011.D	1212012.D									
		Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	Q
1	HATML	Diesel (C10-C24)	8409900	1925328	2069958	2001689	2006236	1962917	2154305				2932905	82	HATM	0.997	
2	HBTML	Motor Oil (C24-C40)	6316816	1467738	1268546	1230563	1263138	1244243	1381191				2024605	94	HBTM	0.996	
3	SA	Ortho-Terphenyl(S)		2678531	2553559	2458004	2431880	2380674	2534932				2506263	4.2	SA		
4	SA	Octacosane(S)		1928500	1894461	1754396	1742966	1677732	1863978				1810339	5.5	SA		
5																	
6																	
7																	
8																	
9																	
10																	
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32																	
33																	
34																	
35																	

5.305152

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212006.D Vial: 4
Acq On : 12-12-21 16:08:57 Operator: KA
Sample : DMO Calibration 1 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:49 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

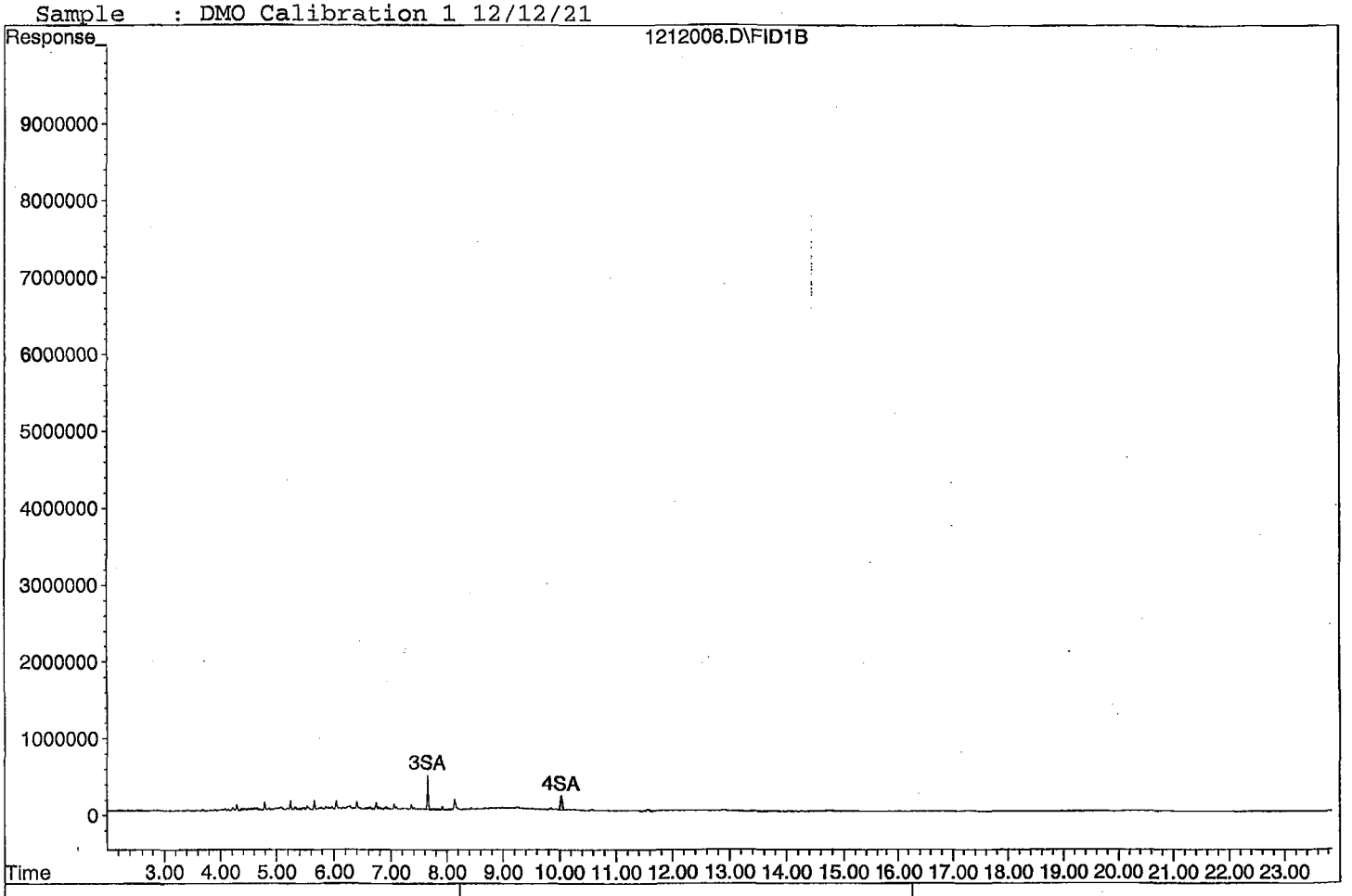
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

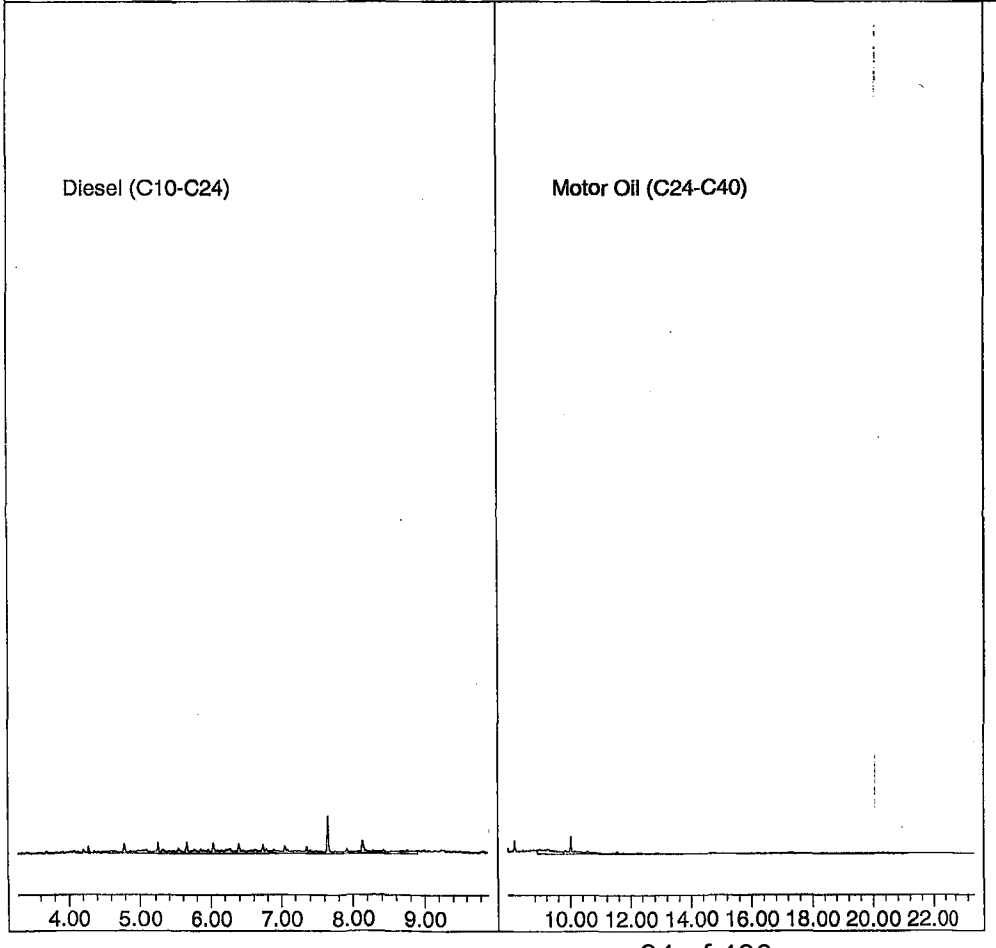
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.65	5591530	362.599 ppb
Surrogate Spike 30.000		Recovery =	1208.66%
4) SA Octacosane(S)	10.03	4056830	1.381 ppb
Surrogate Spike 30.000		Recovery =	4.60%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	84098995	26.361 ppb
2) HBTM Motor Oil (C24-C40)	15.67	63168156	34.400 ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
1212006.D DOC1212.M Mon Dec 13 07:45:00 2021 Page 1

Data File: G:\APOLLO\DATA\211212\1212006.D
Sample : DMO Calibration 1 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212007.D Vial: 5
Acq On : 12-12-21 16:37:14 Operator: KA
Sample : DMO Calibration 2 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:49 2021 Quant Results File: DOC1212.RES

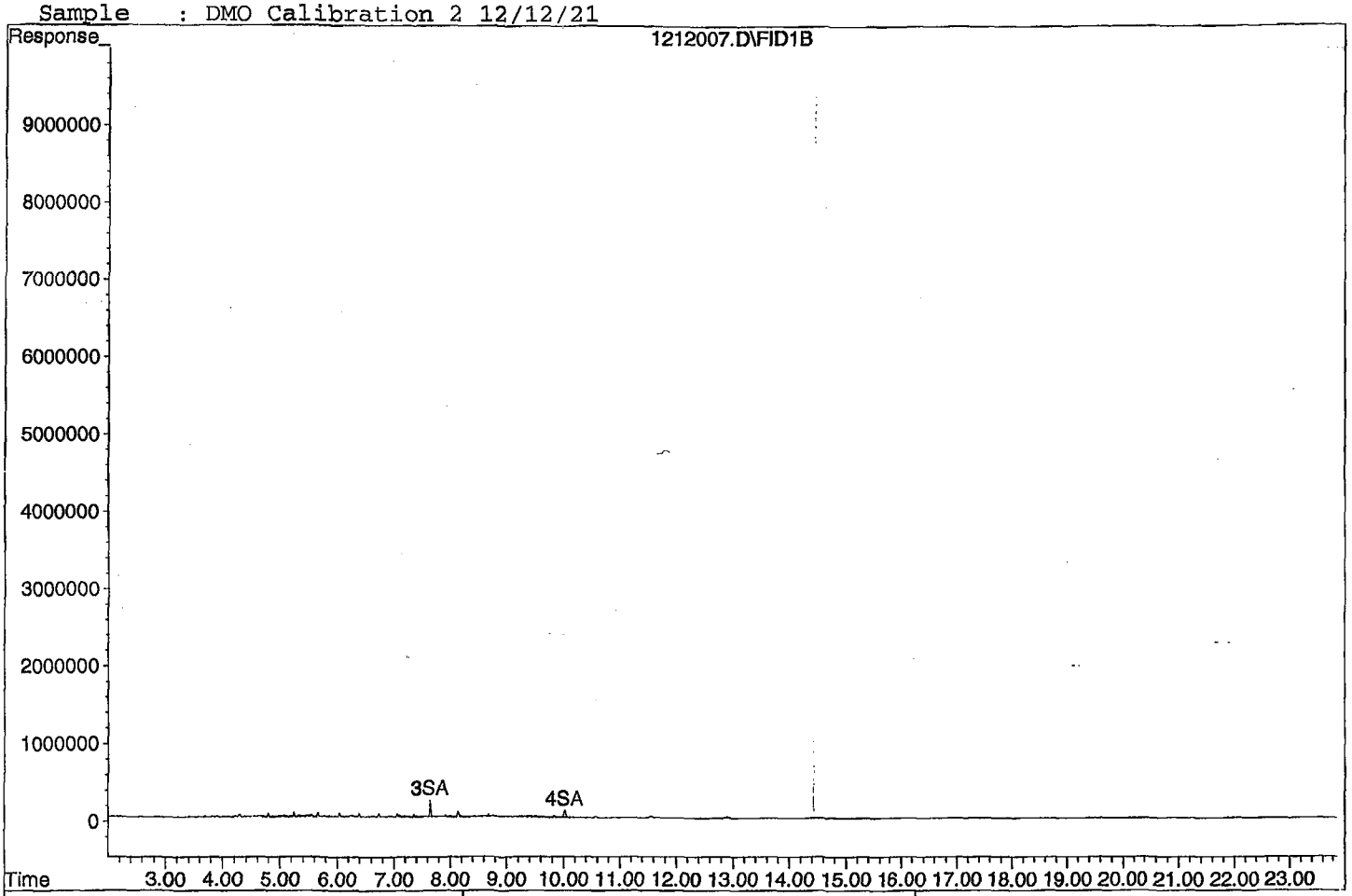
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

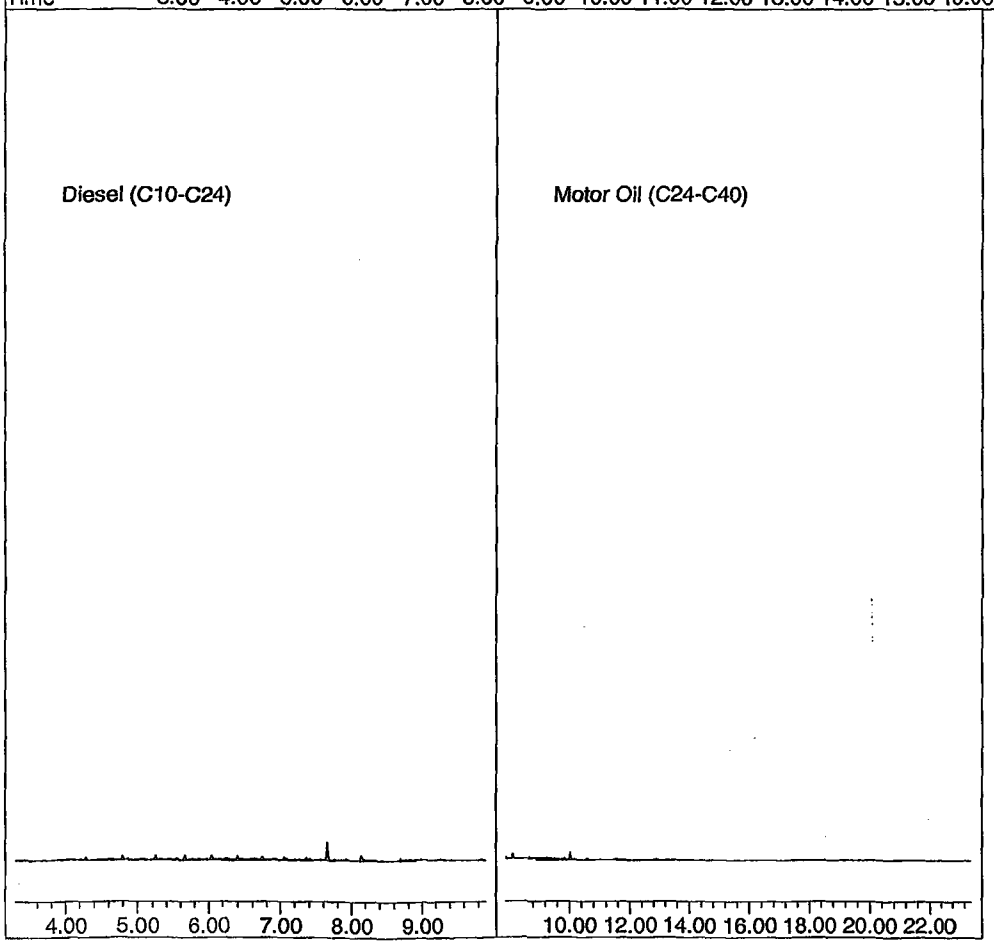
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.65	2678531	172.354 ppb
Surrogate Spike 30.000	Recovery =		574.51%
4) SA Octacosane(S)	10.03	1928500	0.788 ppb
Surrogate Spike 30.000	Recovery =		2.63%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	38506565	16.036 ppb
2) HBTM Motor Oil (C24-C40)	15.67	29354754	21.697 ppb

Target Compounds

Data File: G:\APOLLO\DATA\211212\1212007.D
Sample : DMO Calibration 2 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212008.D Vial: 6
Acq On : 12-12-21 17:05:32 Operator: KA
Sample : DMO Calibration 3 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

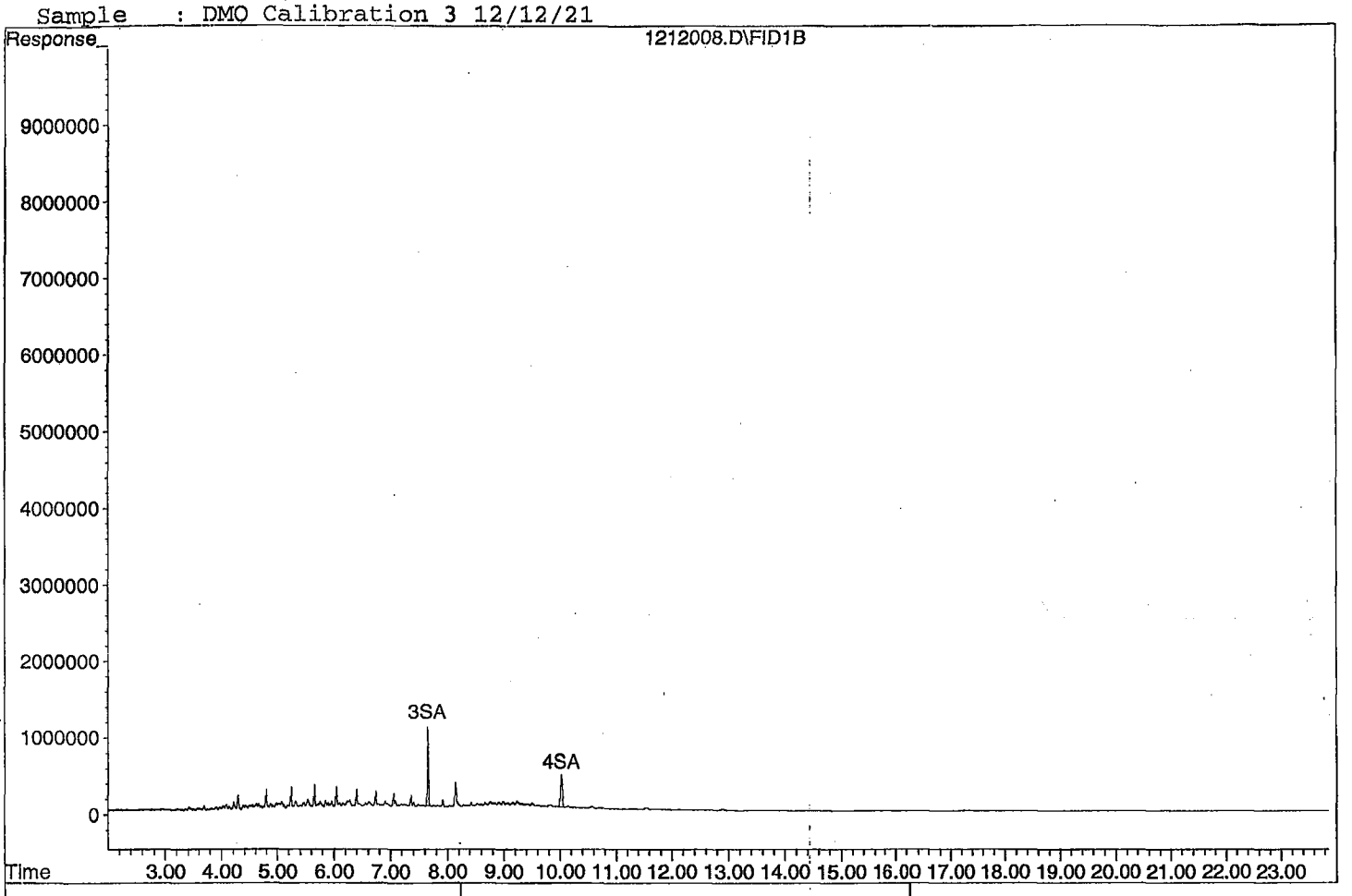
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

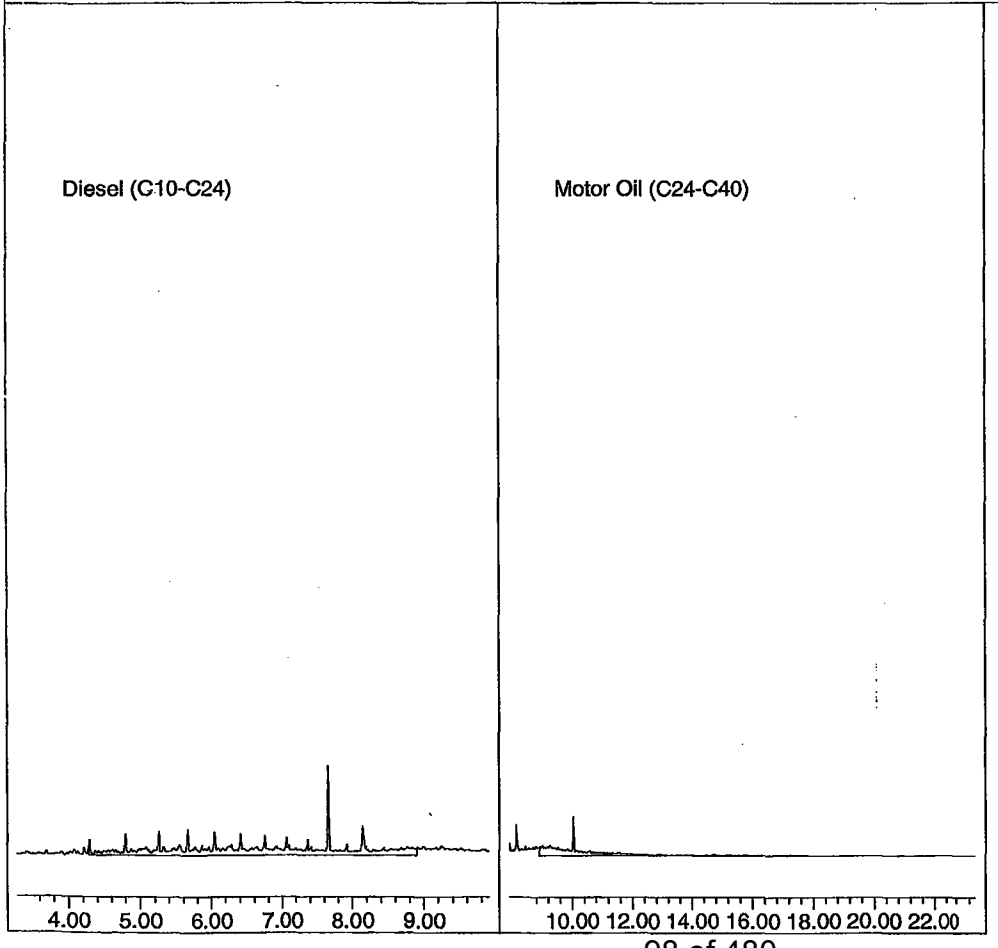
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.65	12767795	831.275	ppb
Surrogate Spike 30.000	Recovery =		2770.92%	
4) SA Octacosane(S)	10.03	9472303	2.889	ppb
Surrogate Spike 30.000	Recovery =		9.63%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.60	206995836	54.193	ppb
2) HBTM Motor Oil (C24-C40)	15.67	126854570	58.325	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
1212008.D DOC1212.M Mon Dec 13 07:45:07 2021 Page 1

Data File: G:\APOLLO\DATA\211212\1212008.D
Sample : DMO Calibration 3 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212009.D Vial: 7
Acq On : 12-12-21 17:33:48 Operator: KA
Sample : DMO Calibration 4 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

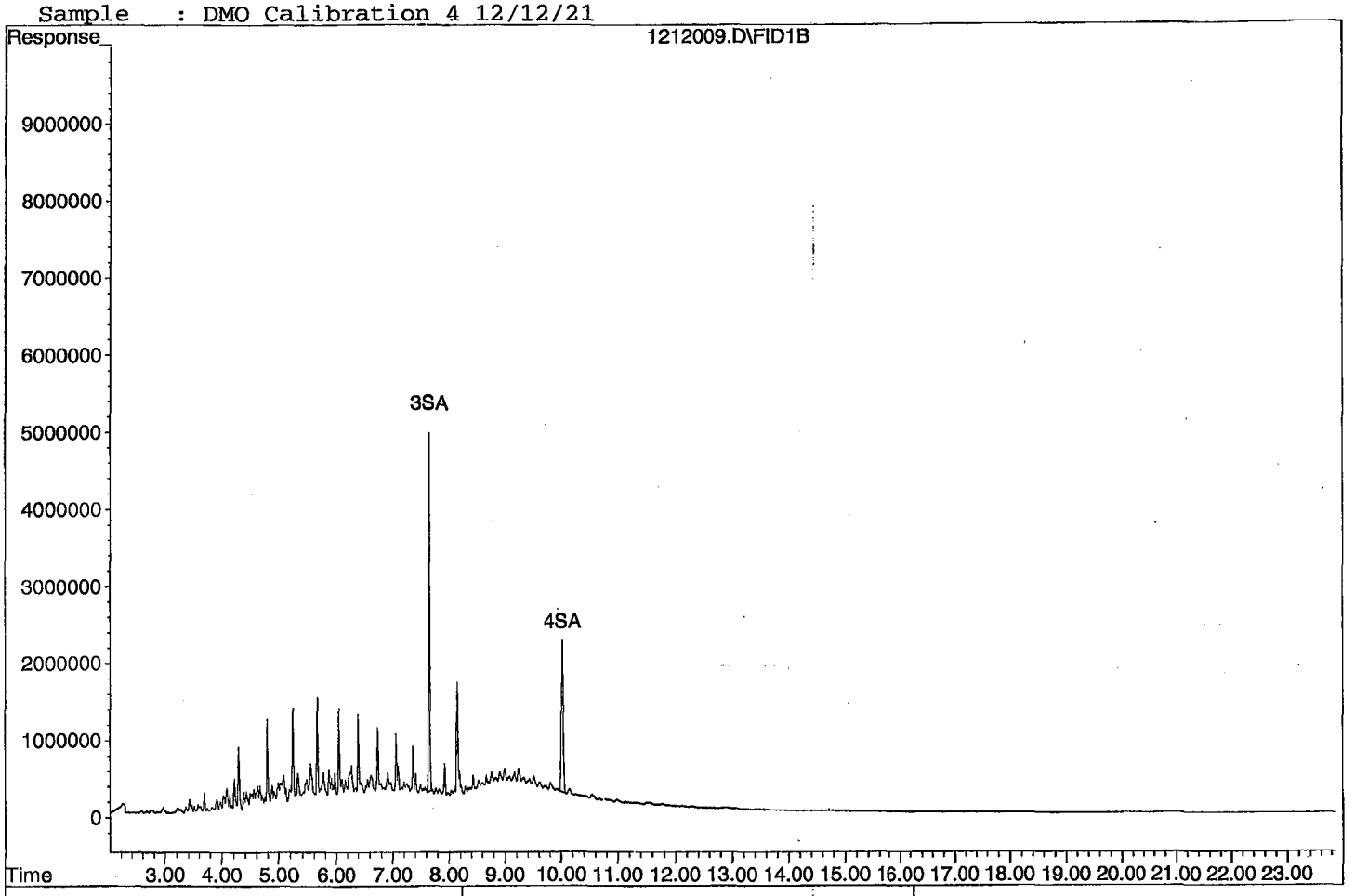
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

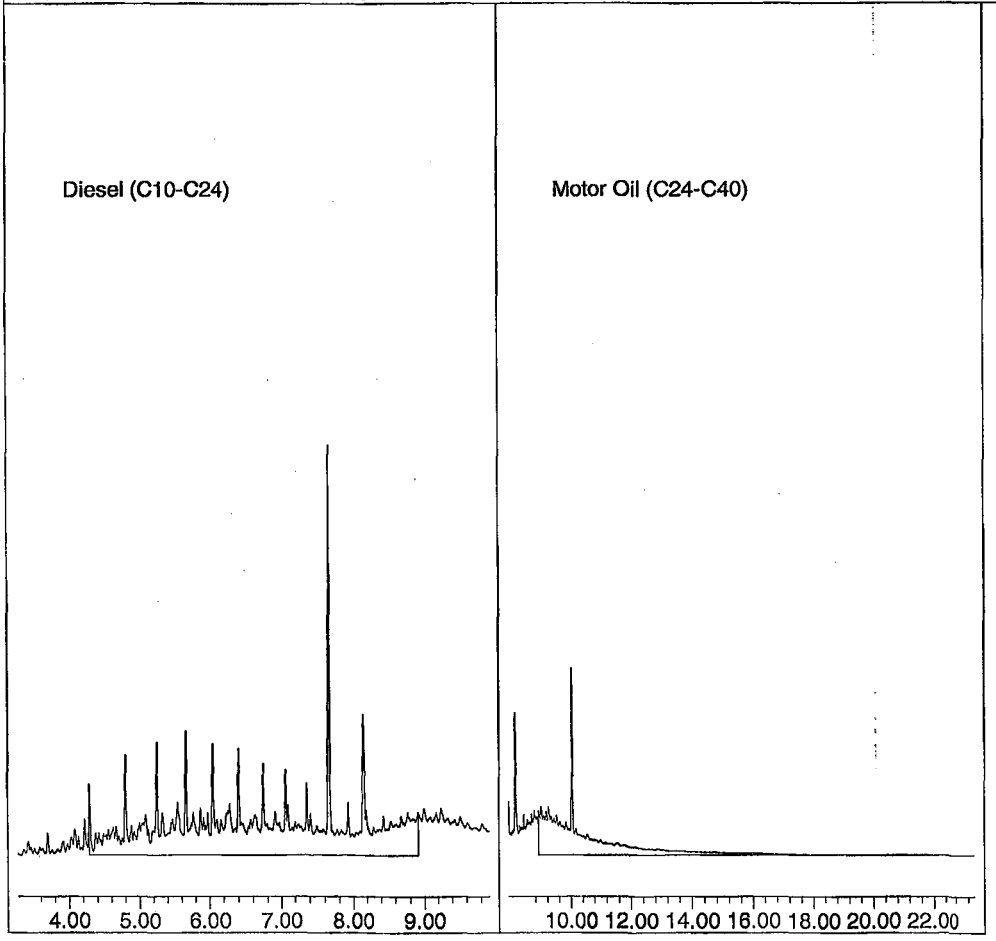
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	61450098	4010.675 ppb
Surrogate Spike 30.000		Recovery =	13368.92%
4) SA Octacosane(S)	10.03	43859896	12.467 ppb
Surrogate Spike 30.000		Recovery =	41.56%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	1000844348	233.976 ppb
2) HBTM Motor Oil (C24-C40)	15.67	615281568	241.810 ppb

Target Compounds

Data File: G:\APOLLO\DATA\211212\1212009.D
Sample : DMO Calibration 4 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212010.D Vial: 8
Acq On : 12-12-21 18:02:04 Operator: KA
Sample : DMO Calibration 5 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

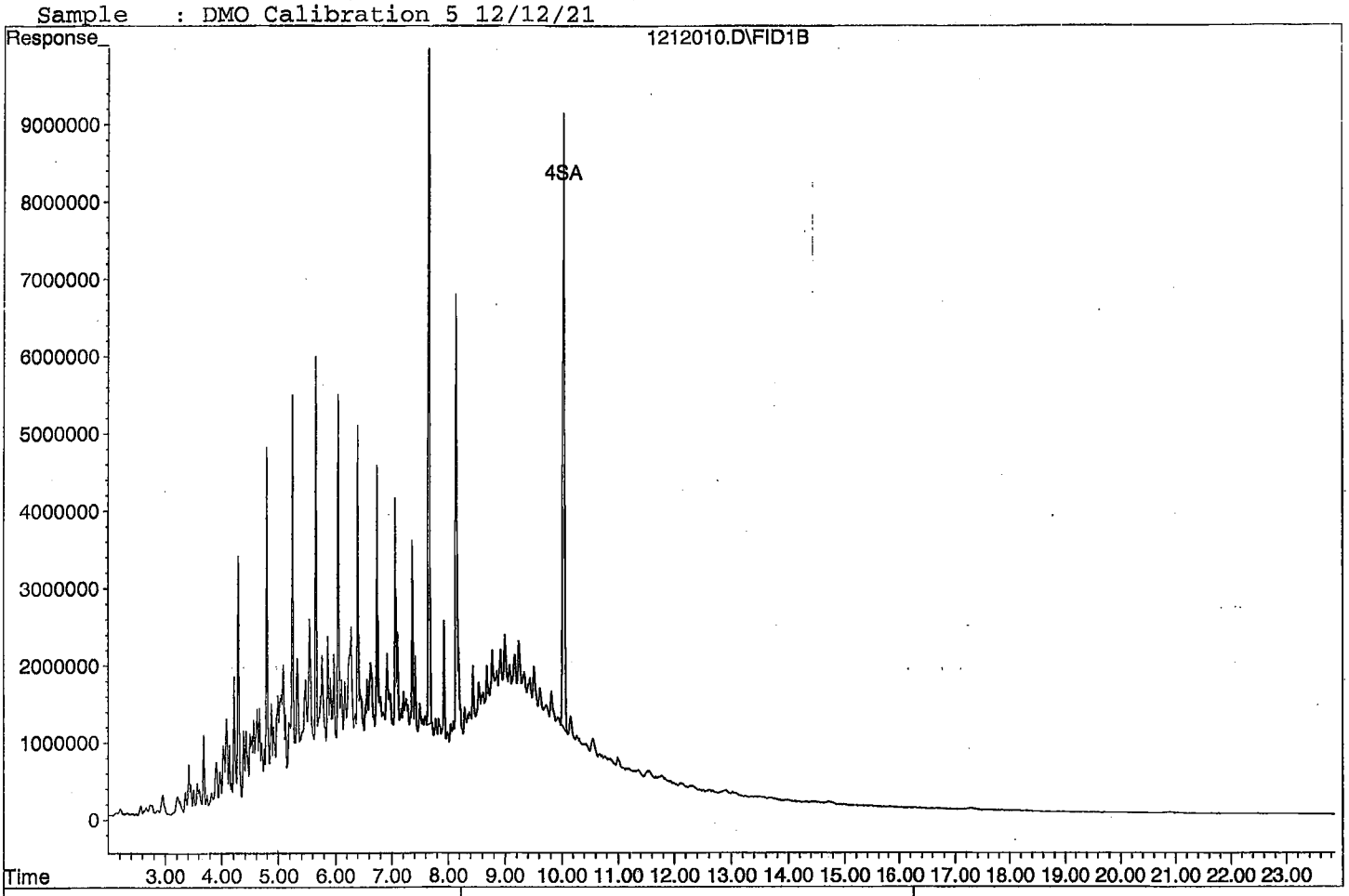
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

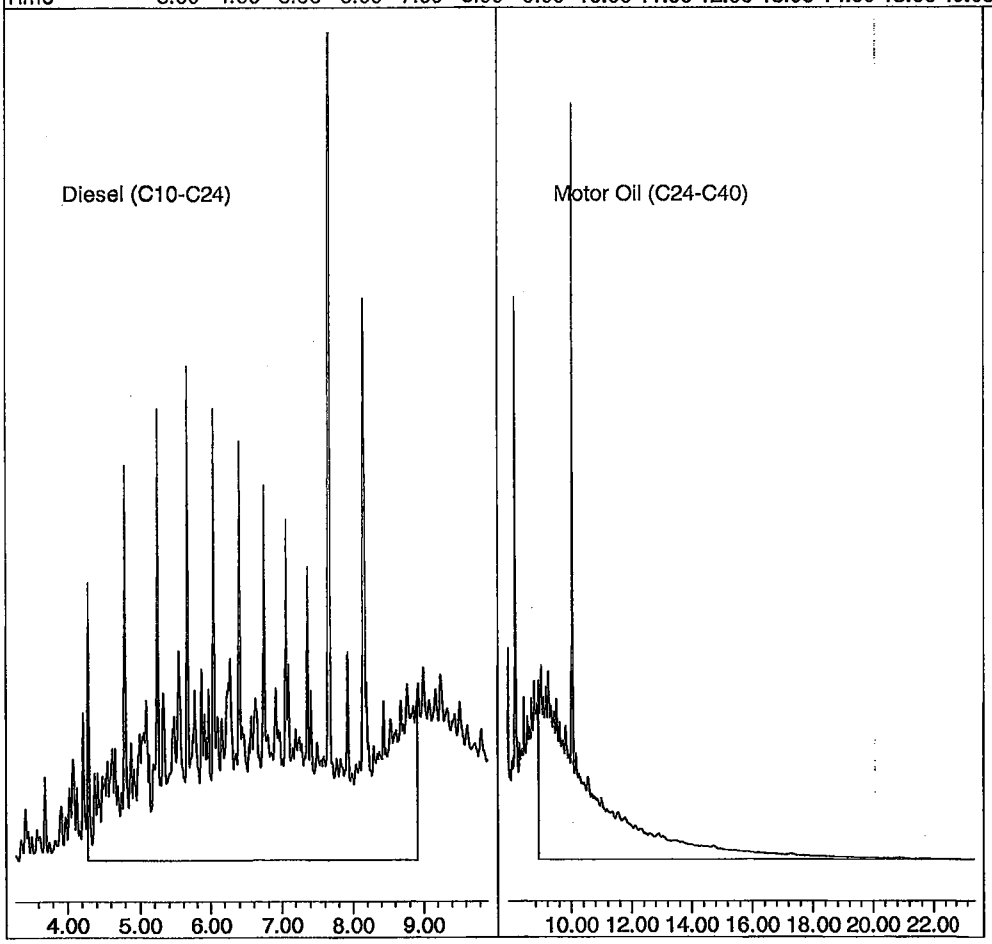
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	243188022	15879.826 ppb
Surrogate Spike 30.000		Recovery =	52932.75%
4) SA Octacosane(S)	10.04	174296600	48.797 ppb
Surrogate Spike 30.000		Recovery =	162.66%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	4012472898	916.018 ppb
2) HBTM Motor Oil (C24-C40)	15.67	2526276181	959.706 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212010.D
Sample : DMO Calibration 5 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212011.D Vial: 9
Acq On : 12-12-21 18:30:20 Operator: KA
Sample : DMO Calibration 6 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

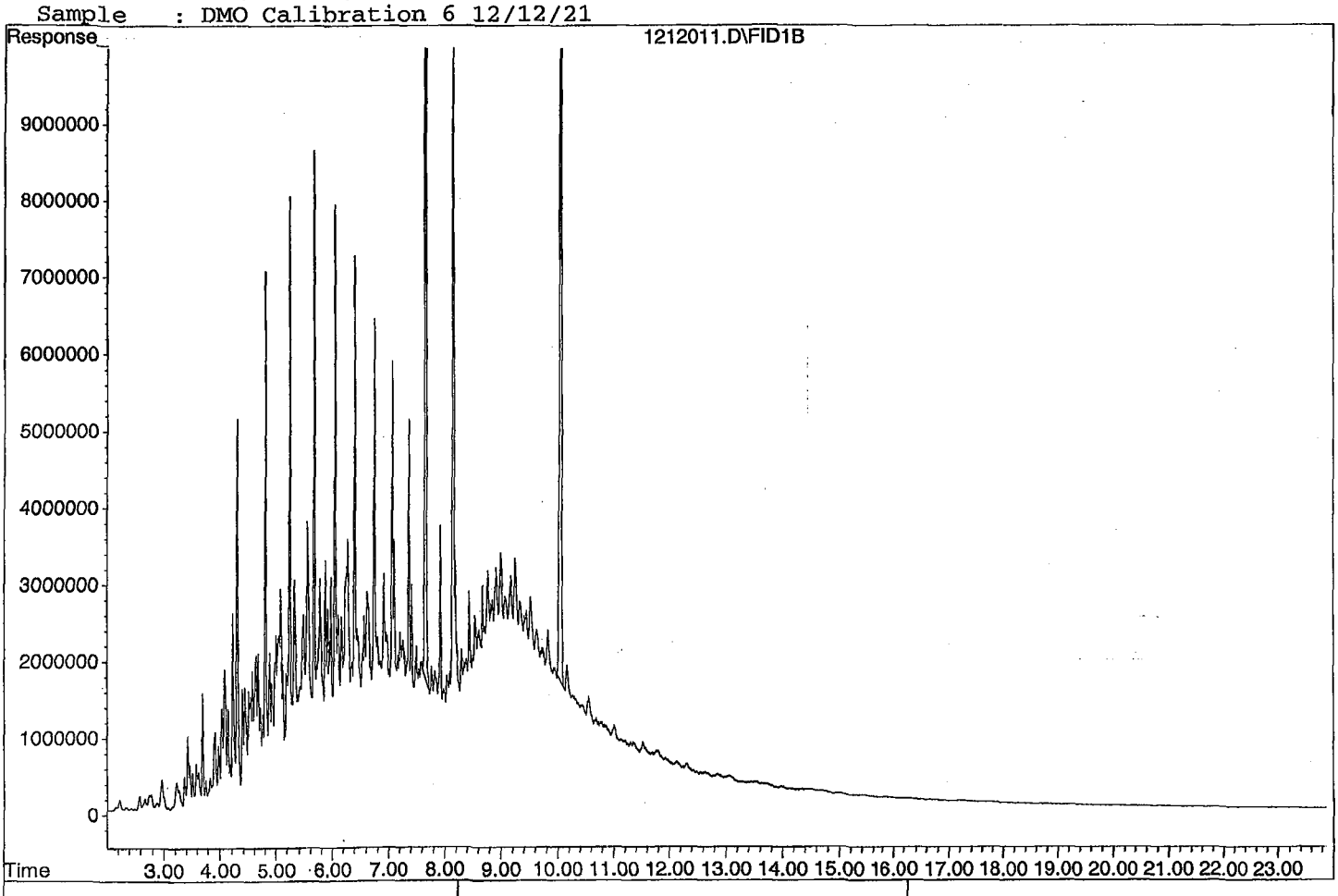
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

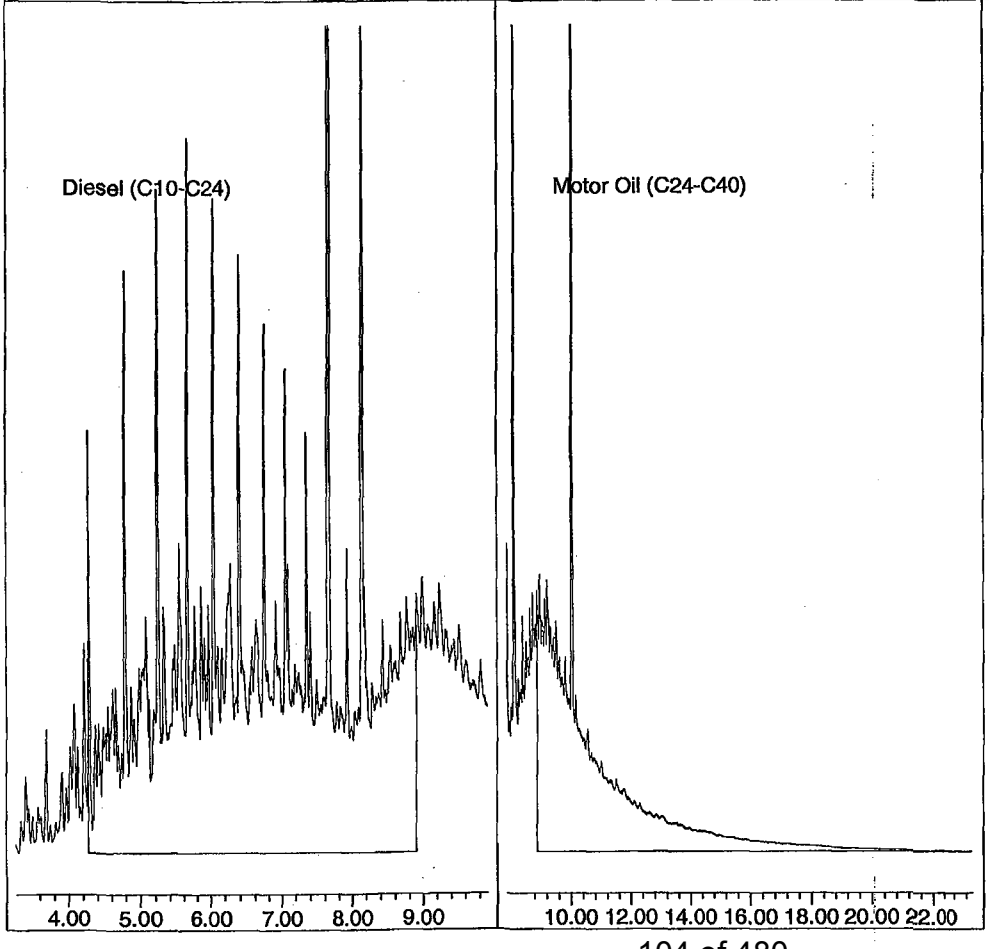
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	357101161	23319.396 ppb
Surrogate Spike 30.000		Recovery =	77731.32%
4) SA Octacosane(S)	10.04	251659753	70.344 ppb
Surrogate Spike 30.000		Recovery =	234.48%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	5888751722	1340.938 ppb
2) HBTM Motor Oil (C24-C40)	15.67	3732727704	1412.928 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212011.D
Sample : DMO Calibration 6 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212012.D Vial: 10
Acq On : 12-12-21 18:58:36 Operator: KA
Sample : DMO Calibration 7 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

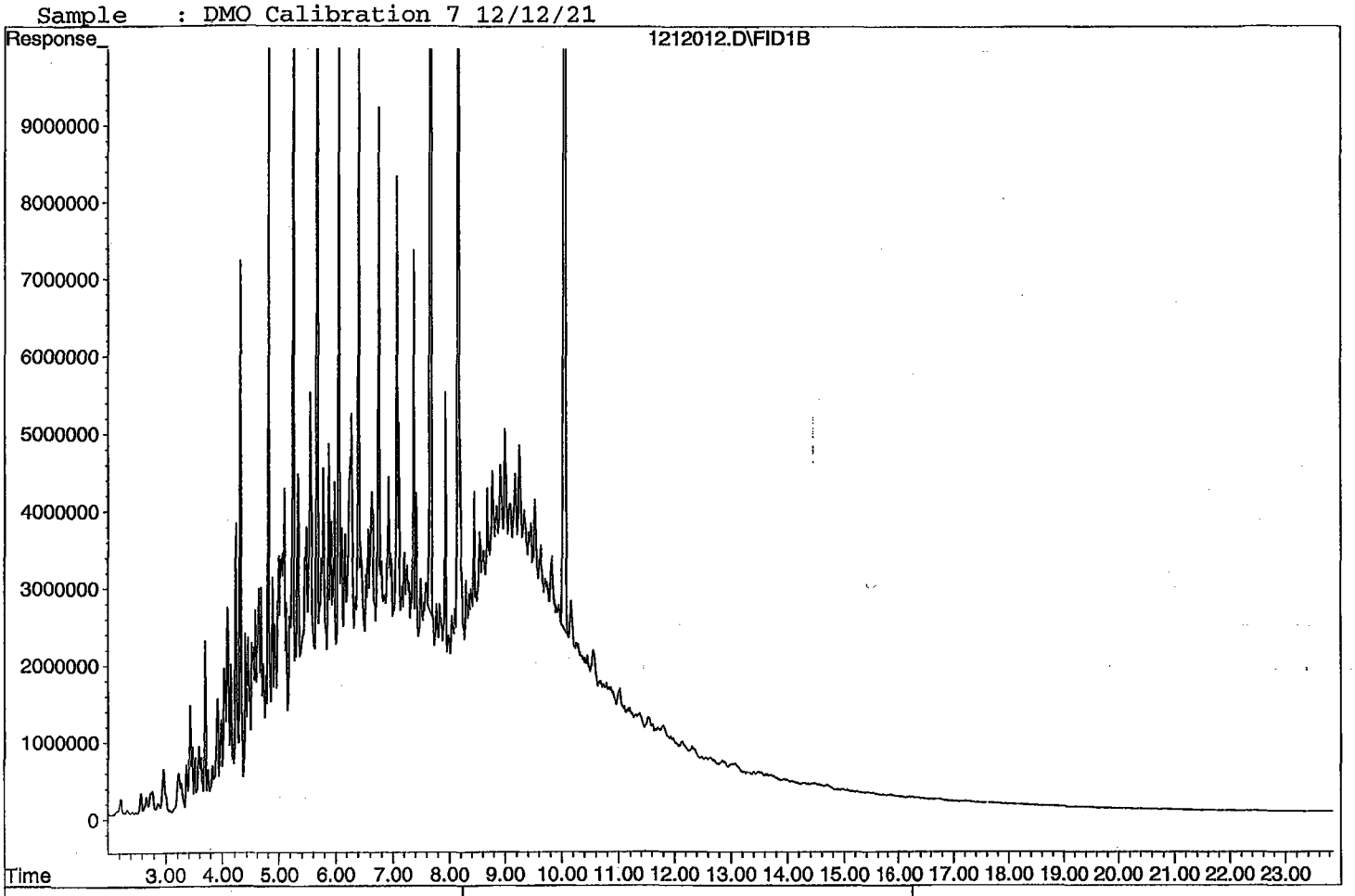
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

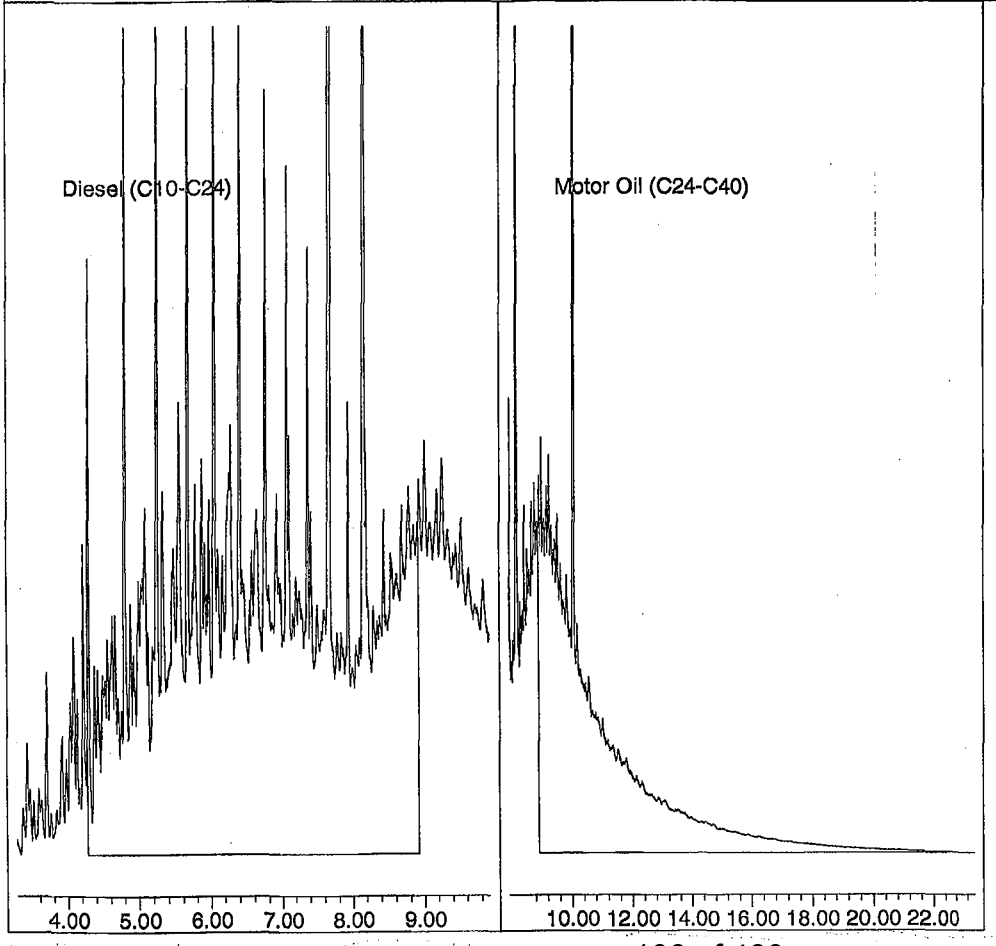
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	506986332	33108.270 ppb
Surrogate Spike 30.000		Recovery =	110360.90%
4) SA Octacosane(S)	10.05	372795641	104.084 ppb
Surrogate Spike 30.000		Recovery =	346.95%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	8617221755	1958.853 ppb
2) HBTM Motor Oil (C24-C40)	15.67	5524762507	2086.135 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.
1212012.D DOC1212.M Mon Dec 13 07:45:21 2021 Page 1

Data File: G:\APOLLO\DATA\211212\1212012.D
Sample : DMO Calibration 7 12/12/21





TPH Extractables
DOC1212

Form 7

Second Source Calibration

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

SDG No:
Date Analyzed: 12/12/2021
Instrument: Apollo
Initial Cal. Date: 12/12/2021
Data File: 1212013.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2932900	1827280	38	HATML	9.3
2	HBTM	Motor Oil (C24-C40)	2024600	1287750	36	HBTML	1.0
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		Average			37.0		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212013.D Vial: 11
Acq On : 12-12-21 19:26:51 Operator: KA
Sample : DMO Second Source 10/28/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:53 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

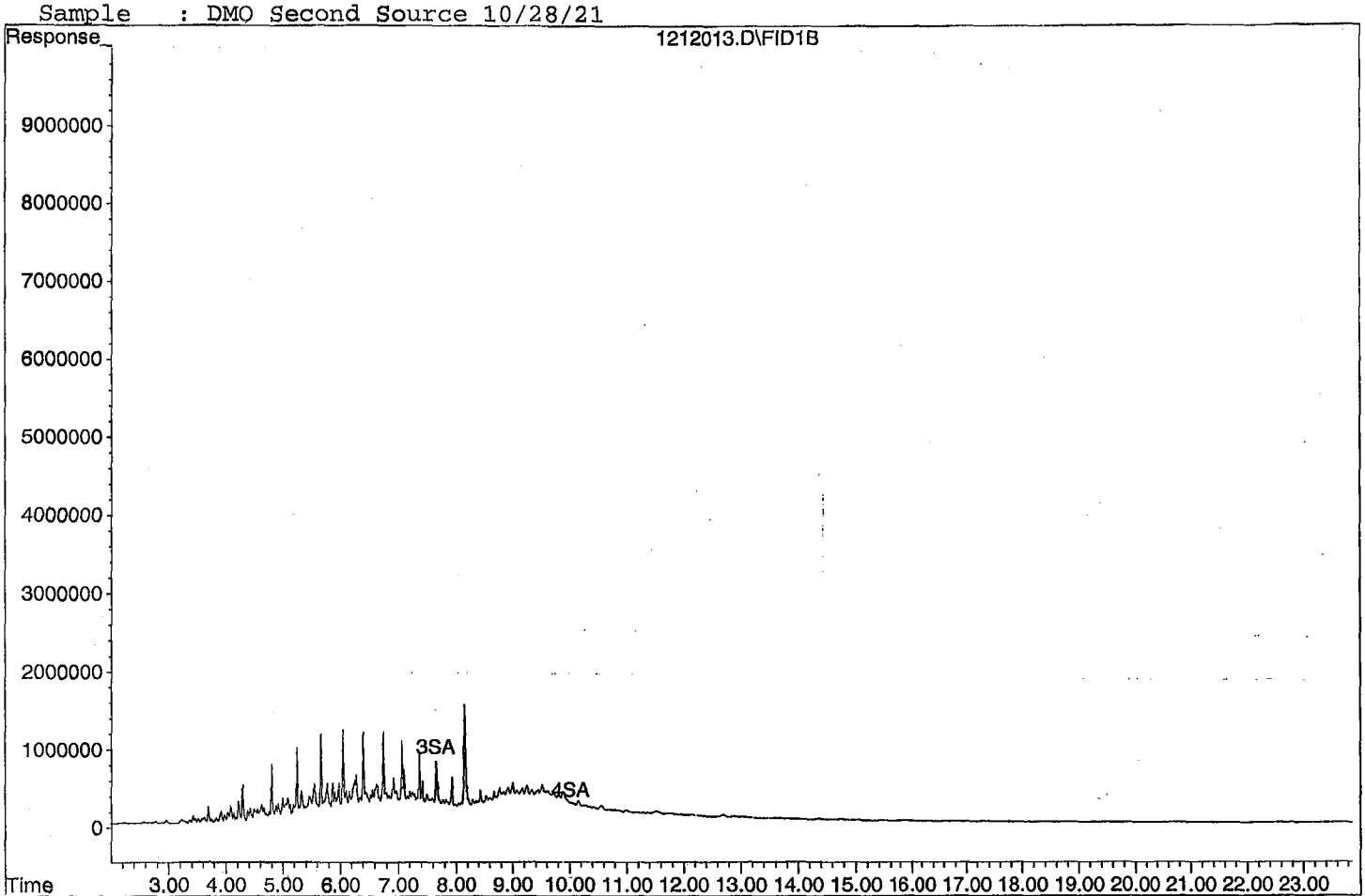
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

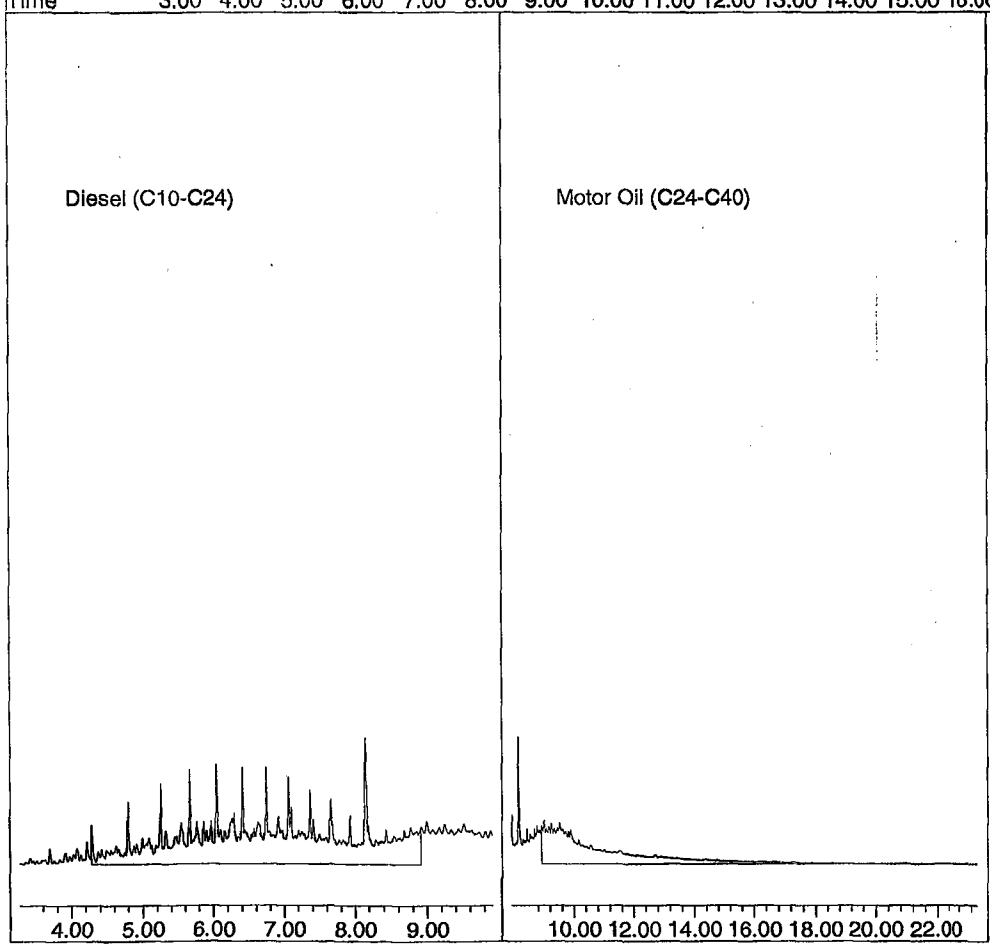
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.65	4209010	0.840 ppb
Surrogate Spike 30.000	Recovery	=	2.80%
4) SA Octacosane(S)	10.02	207793	0.057 ppb
Surrogate Spike 30.000	Recovery	=	0.19%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	913639690	226.836 ppb
2) HBTM Motor Oil (C24-C40)	15.67	643874690	252.551 ppb
Target Compounds			

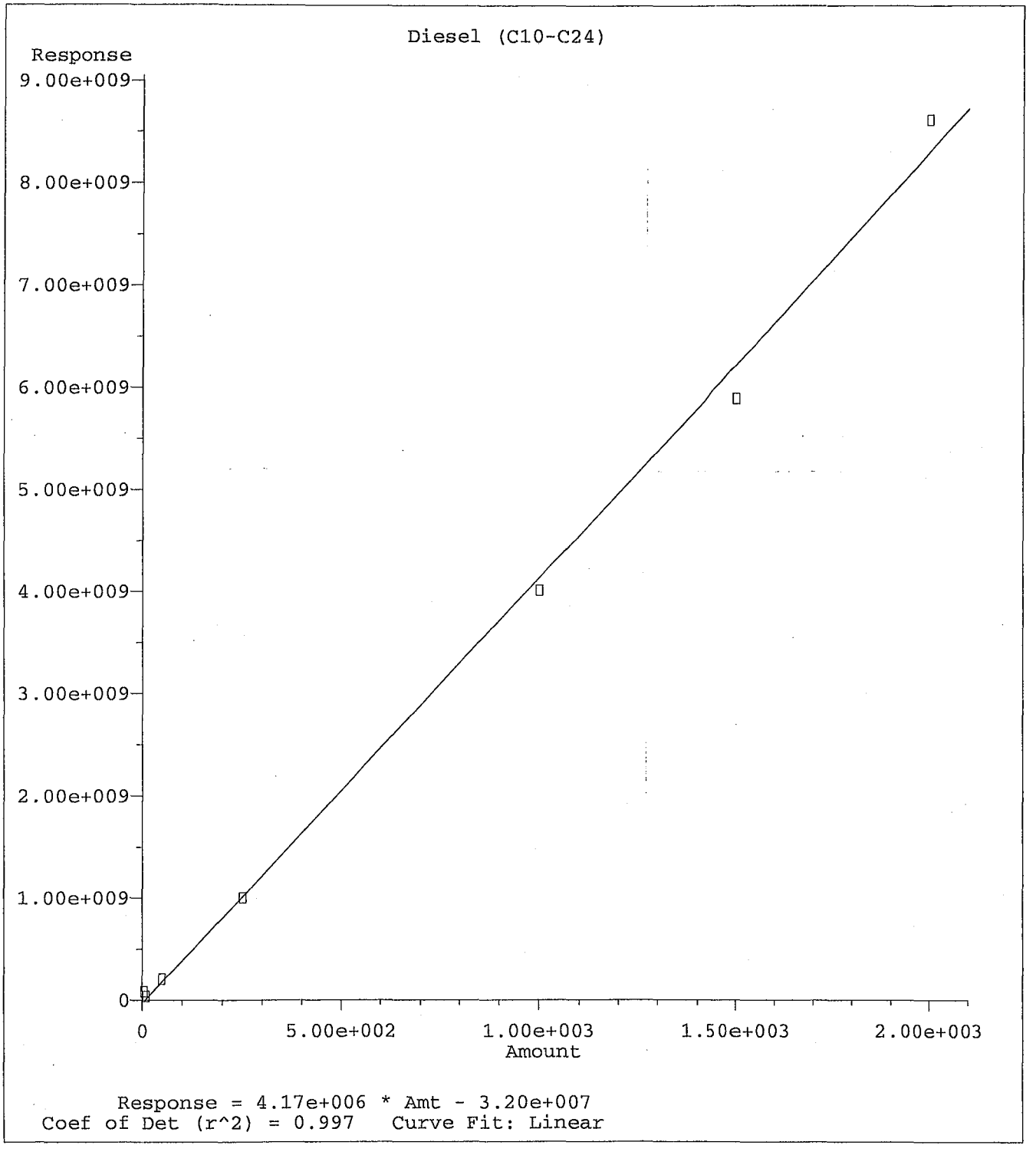
(f)=RT Delta > 1/2 Window (m)=manual int.
1212013.D DOC1212.M Mon Dec 13 07:45:24 2021 Page 1

Quantitation Report

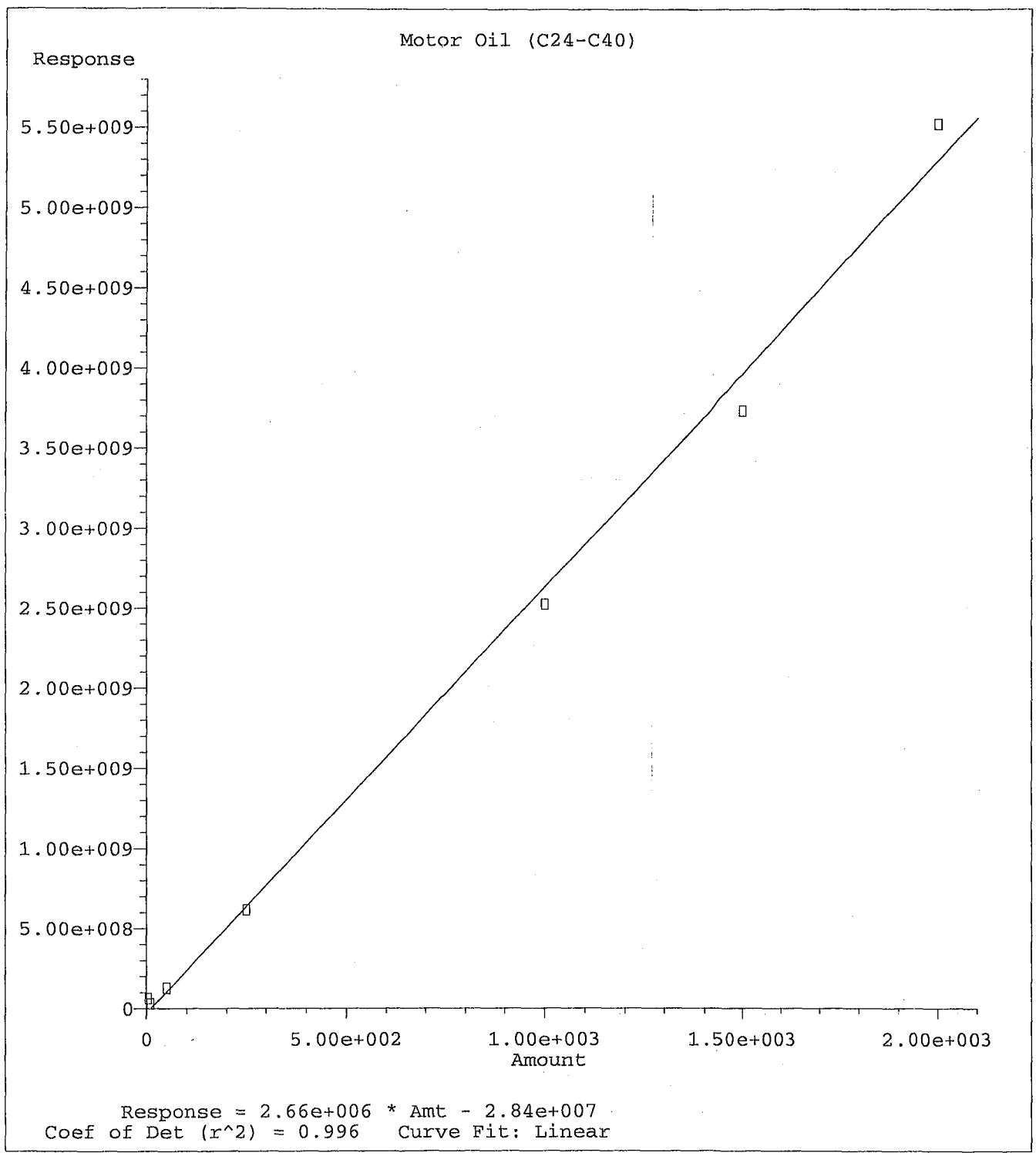
Data File: G:\APOLLO\DATA\211212\1212013.D
Sample : DMO Second Source 10/28/21







Method Name: G:\APOLLO\DATA\211212\DOC1212.M
Calibration Table Last Updated: Mon Dec 13 05:52:11 2021



Method Name: G:\APOLLO\DATA\211212\DOC1212.M
Calibration Table Last Updated: Mon Dec 13 05:52:11 2021

TPH Extractables
DOC1212

Form 7
Continuing Calibration

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

SDG No:
Date Analyzed: 12/13/2021
Instrument: Apollo
Initial Cal. Date: 12/12/2021
Data File: 1213003.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2932900	2108140	28	HATML	1.9
2	HBTM	Motor Oil (C24-C40)	2024600	1375470	32	HBTML	4.4
3	SA	Ortho-Terphenyl(S)	2506260	2658840	6.1	SA	
4	SA	Octacosane(S)	1810340	1882990	4.0	SA	
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		Average			17.5		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211213\1213003.D Vial: 3
Acq On : 12-13-21 14:20:32 Operator: KA
Sample : DMO STD DF2 12/09/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 14 8:53 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

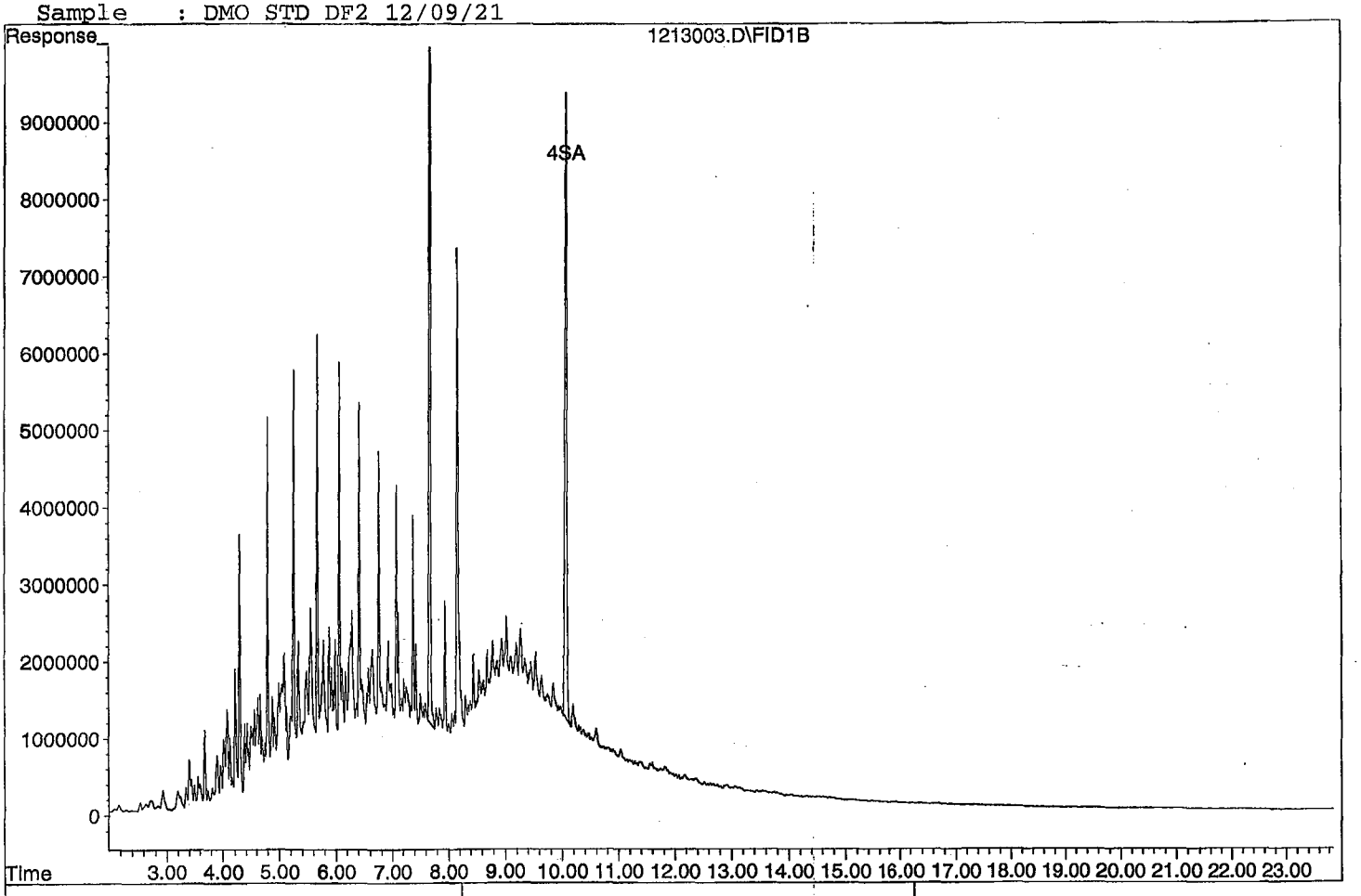
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

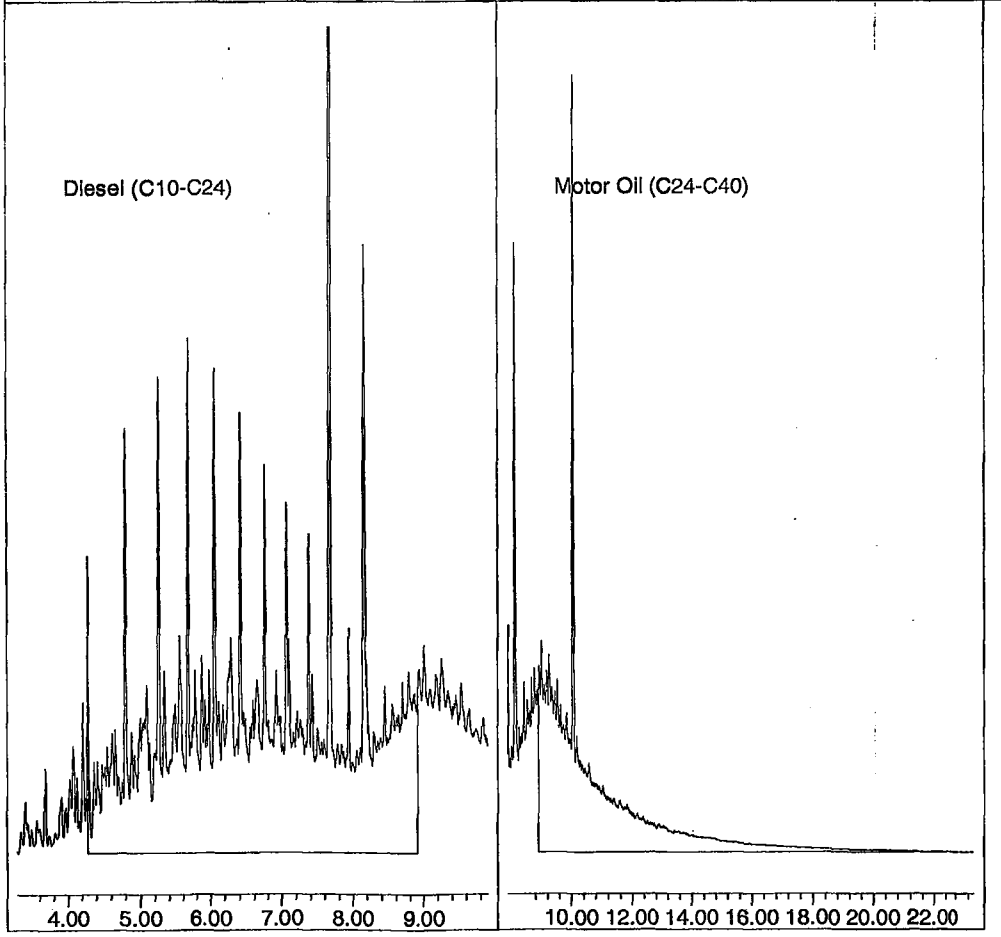
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.67	265884485	53.044	ppb
Surrogate Spike 30.000		Recovery =	176.81%	
4) SA Octacosane(S)	10.06	188299445	52.007	ppb
Surrogate Spike 30.000		Recovery =	173.36%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.60	4216279797	1019.059	ppb
2) HBTM Motor Oil (C24-C40)	15.67	2750940881	1044.104	ppb

Target Compounds

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

Data File: G:\APOLLO\DATA\211213\1213003.D
Sample : DMO STD DF2 12/09/21





TPH Extractables
DOC1212

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 12/14/2021
Instrument: Apollo
Initial Cal. Date: 12/12/2021
Data File: 1213020.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2932900	2192730	25	HATML	6.0
2	HBTM	Motor Oil (C24-C40)	2024600	1420780	30	HBTML	7.8
3	SA	Ortho-Terphenyl(S)	2506260	2701330	7.8	SA	
4	SA	Octacosane(S)	1810340	1987430	9.8	SA	
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		Average			18.2		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211213\1213020.D Vial: 20
Acq On : 12-14-21 9:40:09 Operator: KA
Sample : DMO STD DF2 12/09/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 14 10:16 2021 Quant Results File: DOC1212.RES

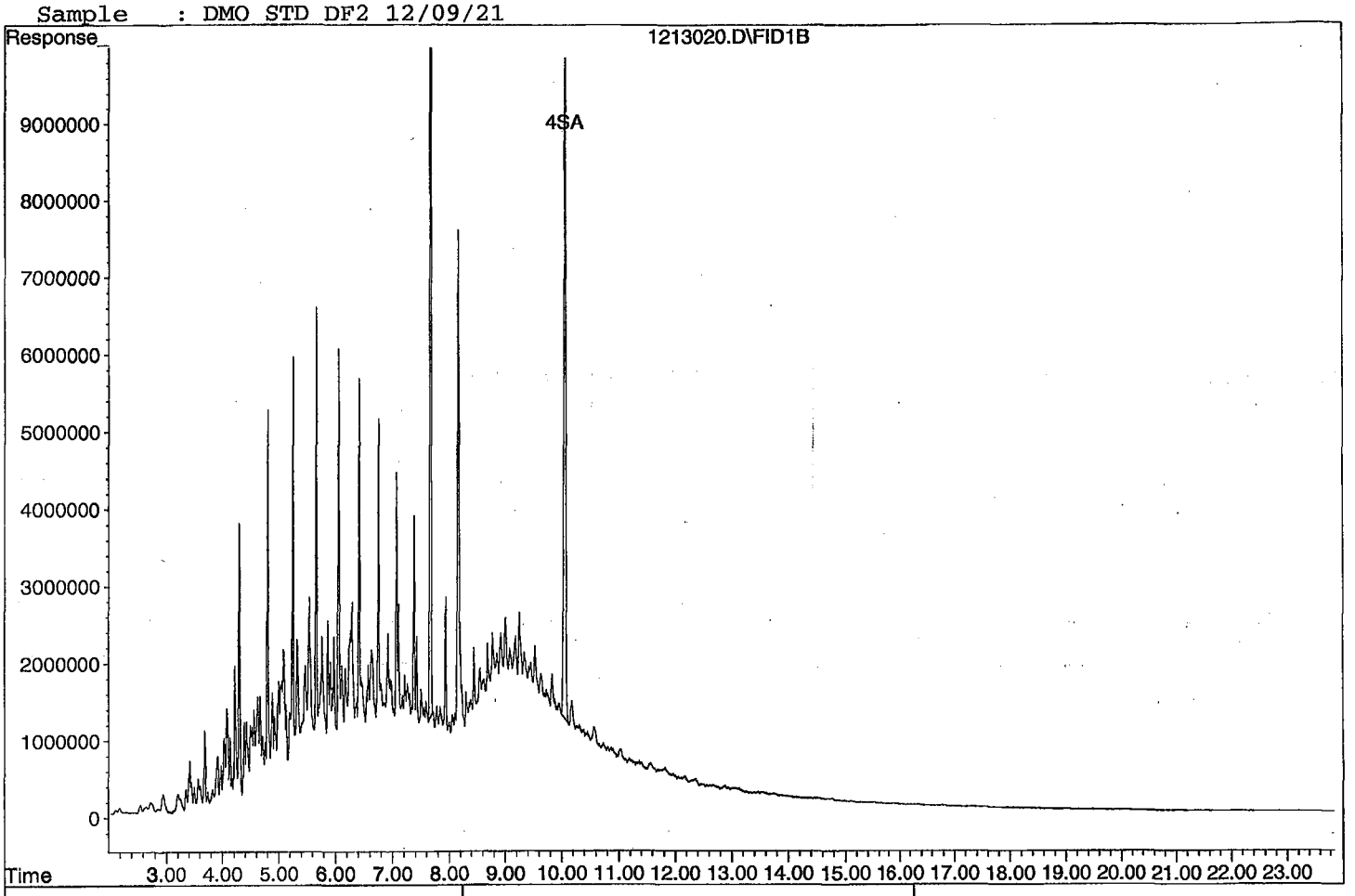
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

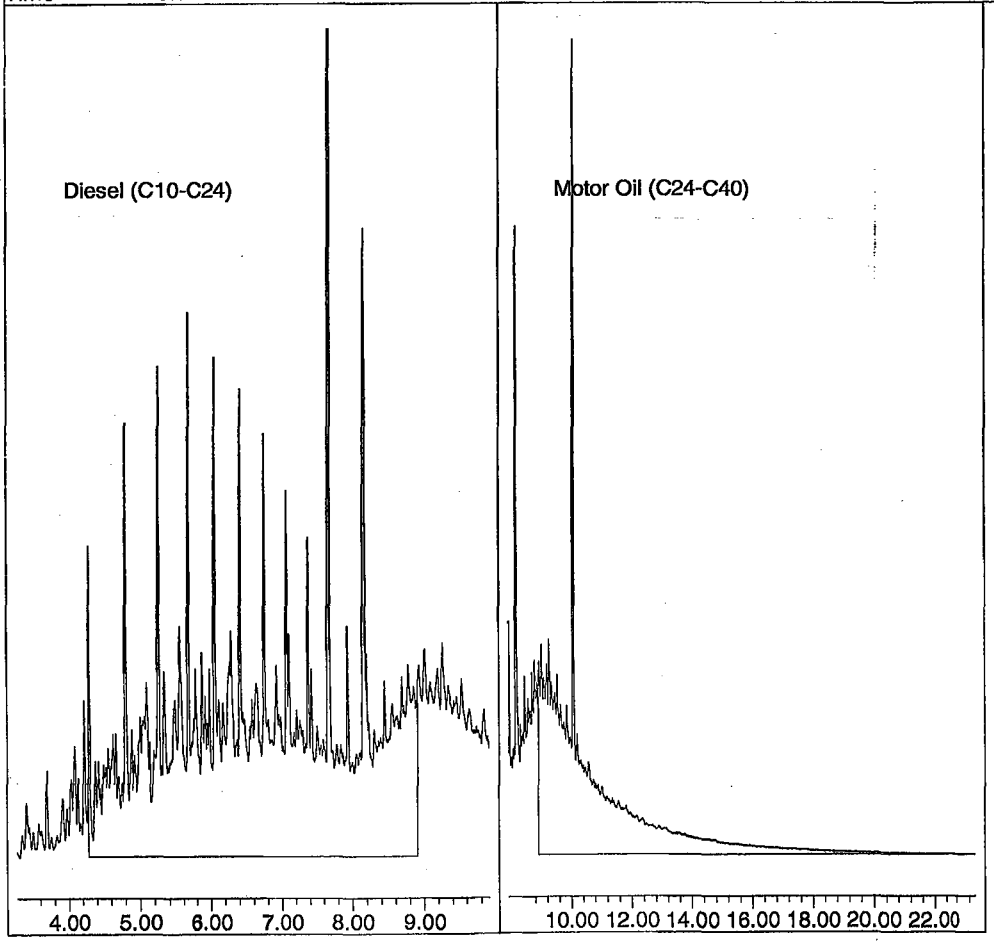
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.67	270133475	53.892	ppb
Surrogate Spike 30.000		Recovery =	179.64%	
4) SA Octacosane(S)	10.06	198742739	54.891	ppb
Surrogate Spike 30.000		Recovery =	182.97%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.60	4385455692	1059.640	ppb
2) HBTM Motor Oil (C24-C40)	15.67	2841566273	1078.149	ppb

Target Compounds

Data File: G:\APOLLO\DATA\211213\1213020.D
Sample : DMO STD DF2 12/09/21





TPH Extractables
DOC1212

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 12/14/2021
Instrument: Apollo
Initial Cal. Date: 12/12/2021
Data File: 1213032.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2932900	2134280	27	HATML	3.2
2	HBTM	Motor Oil (C24-C40)	2024600	1396620	31	HBTML	6.0
3	SA	Ortho-Terphenyl(S)	2506260	2611360	4.2	SA	
4	SA	Octacosane(S)	1810340	1946810	7.5	SA	
5							
6							
7							
8							
9							
10							
11							
12							
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18							
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30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			17.4		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211213\1213032.D Vial: 32
Acq On : 12-14-21 15:29:14 Operator: KA
Sample : DMO STD DF2 12/09/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 14 17:14 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

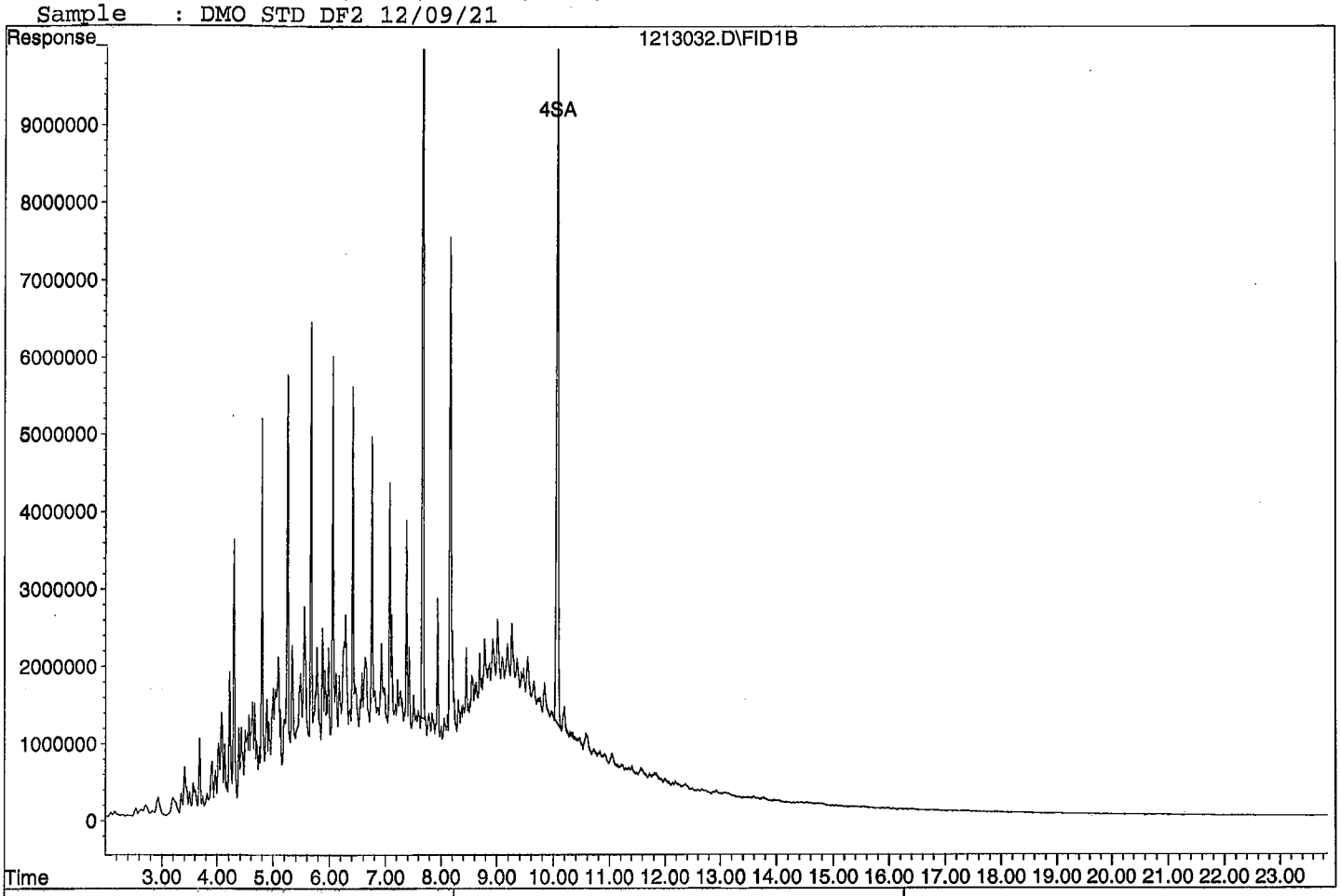
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

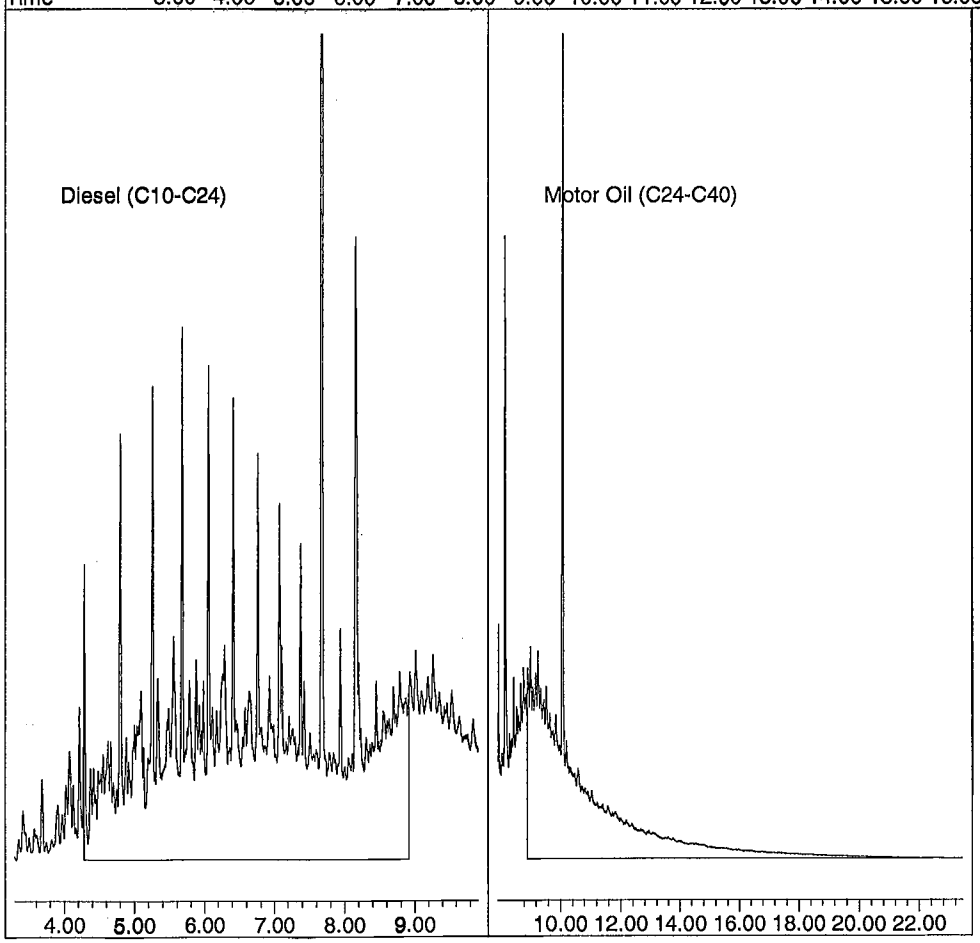
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.67	261135761	52.097	ppb
Surrogate Spike 30.000	Recovery =		173.66%	
4) SA Octacosane(S)	10.07	194681466	53.769	ppb
Surrogate Spike 30.000	Recovery =		179.23%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.60	4268565047	1031.601	ppb
2) HBTM Motor Oil (C24-C40)	15.67	2793238661	1059.994	ppb

Target Compounds

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

Data File: G:\APOLLO\DATA\211213\1213032.D
Sample : DMO STD DF2 12/09/21





ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211213\1213017.D Vial: 17
Acq On : 12-13-21 20:55:22 Operator: KA
Sample : BA47128W09 5/1050 Inst : Apollo
Misc : Water Multiplr: 4.76
IntFile : events.e
Quant Time: Dec 14 9:48 2021 Quant Results File: DOC1212.RES

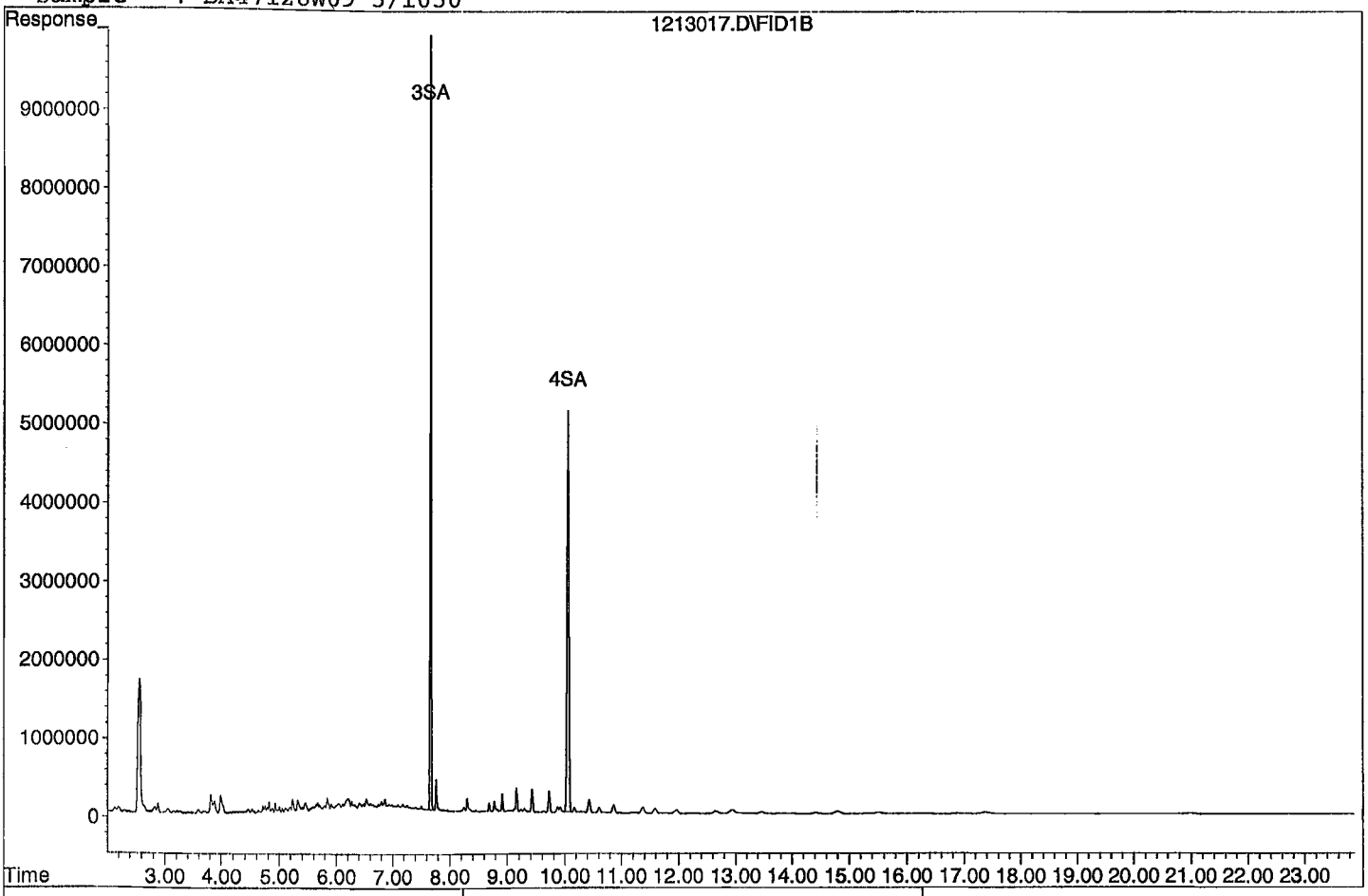
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

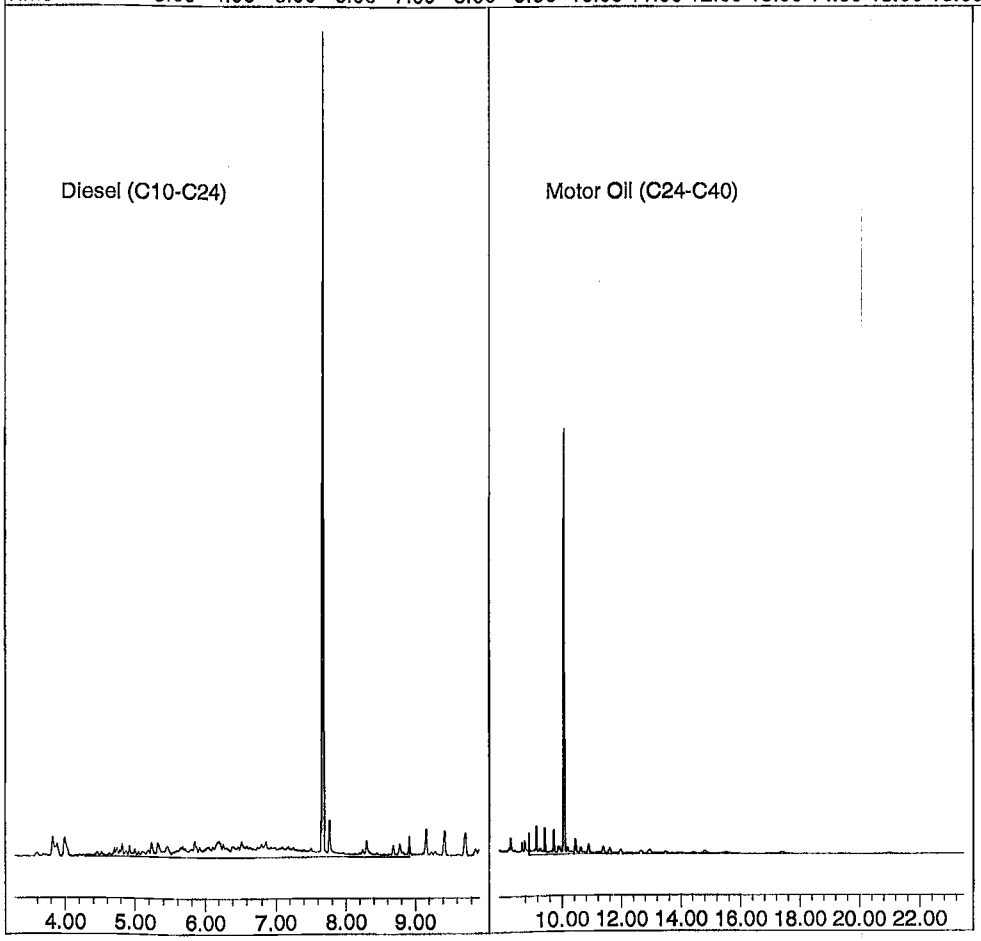
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	124042047	117.840 ppb
Surrogate Spike 142.857		Recovery =	82.49%
4) SA Octacosane(S)	10.05	114411621	150.474 ppb
Surrogate Spike 142.857		Recovery =	105.33%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	223167435	291.471 ppb
2) HBTM Motor Oil (C24-C40)	15.67	130980113	285.116 ppb
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\211213\1213017.D
Sample : BA47128W09 5/1050





Quantitation Report (QT Reviewed)

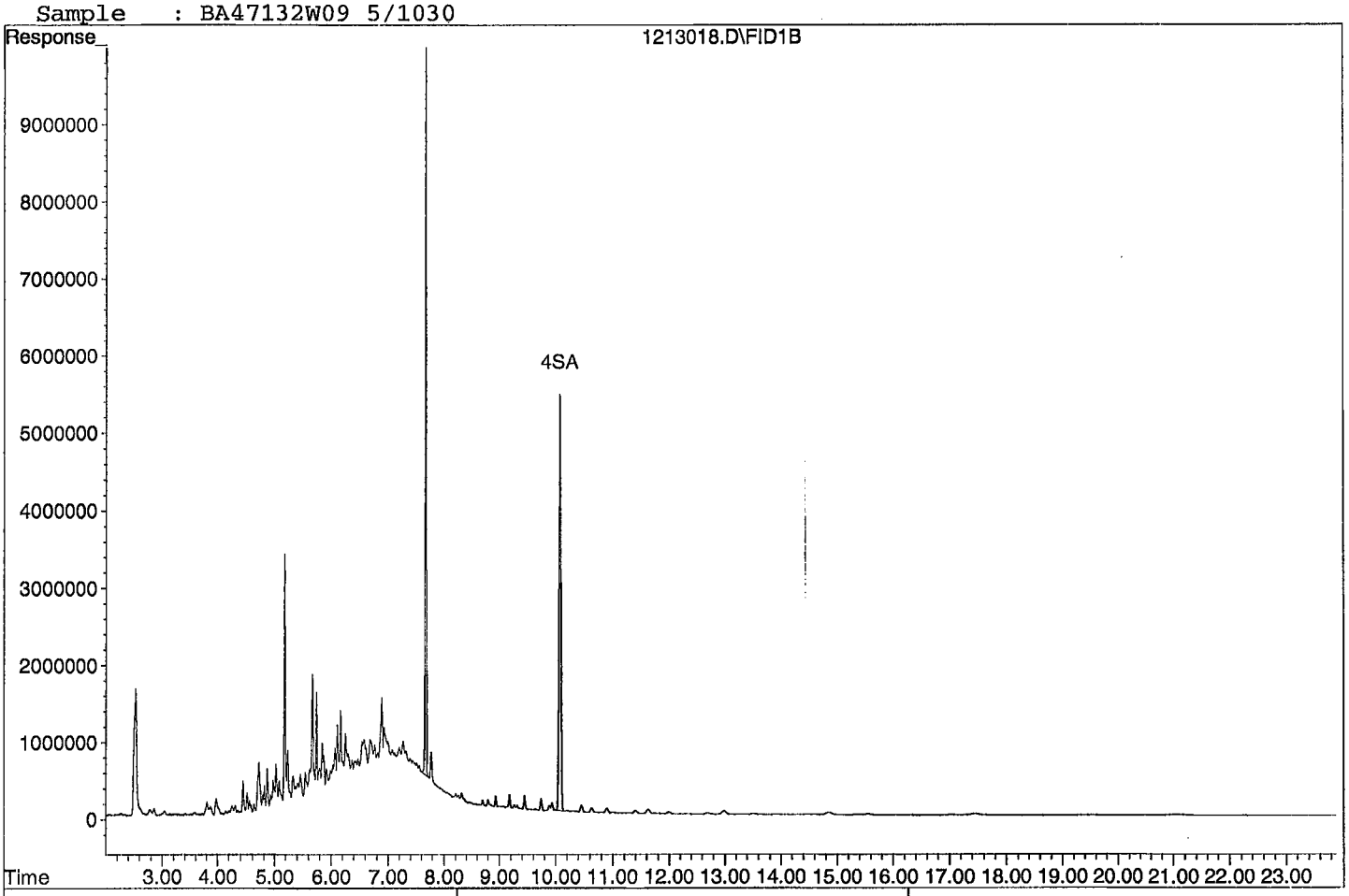
Data File : G:\APOLLO\DATA\211213\1213018.D Vial: 18
Acq On : 12-14-21 8:44:00 Operator: KA
Sample : BA47132W09 5/1030 Inst : Apollo
Misc : Water Multiplr: 4.85
IntFile : events.e
Quant Time: Dec 14 9:49 2021 Quant Results File: DOC1212.RES

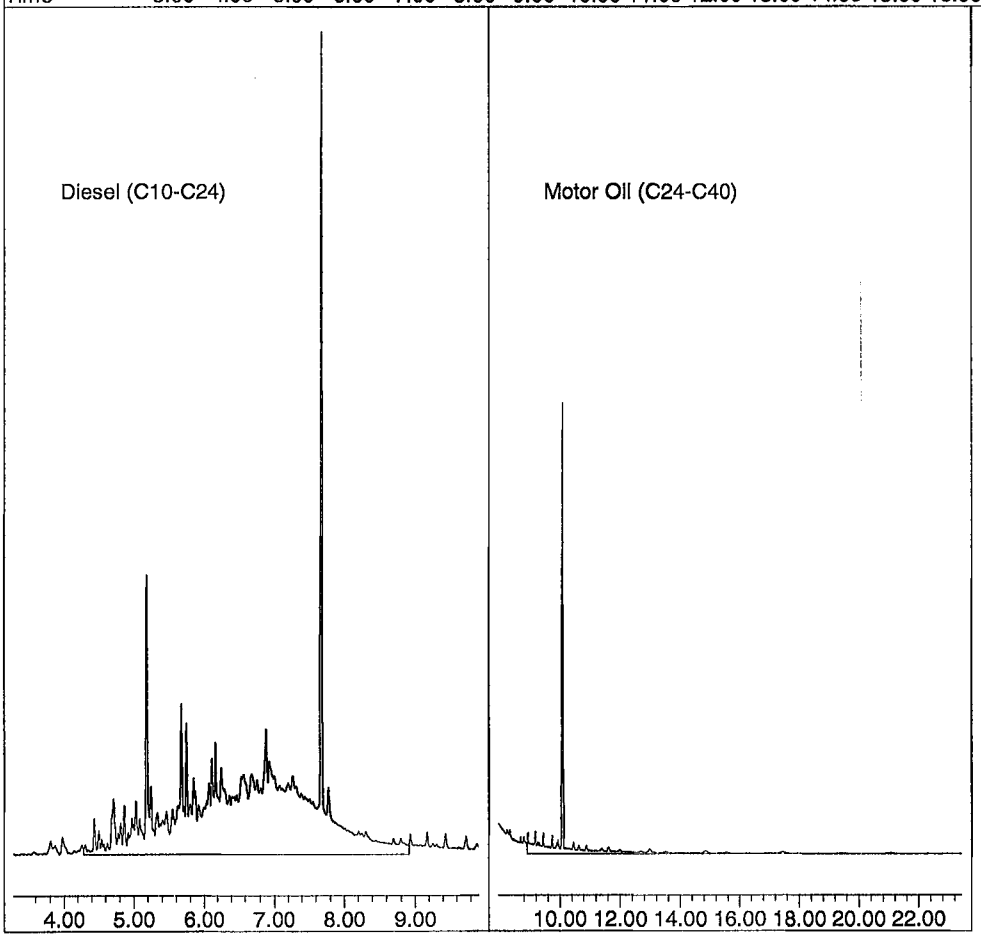
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	135451207	131.177 ppb
Surrogate Spike 145.631		Recovery =	90.07%
4) SA Octacosane(S)	10.07	121909636	163.449 ppb
Surrogate Spike 145.631		Recovery =	112.23%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	1410468195	1679.677 ppb
2) HBTM Motor Oil (C24-C40)	15.67	196837639	410.752 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211213\1213018.D
Sample : BA47132W09 5/1030





Quantitation Report (QT Reviewed)

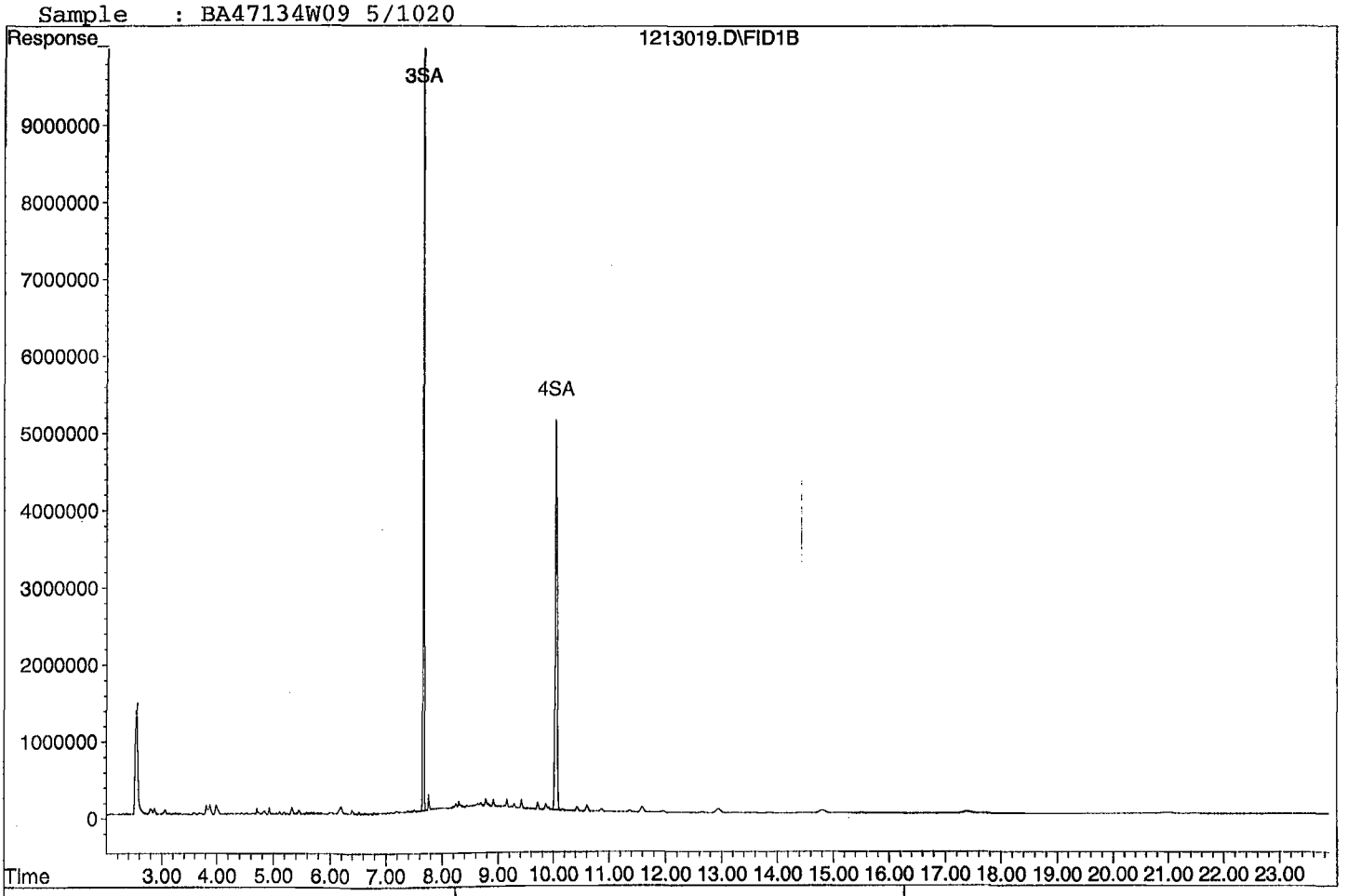
Data File : G:\APOLLO\DATA\211213\1213019.D Vial: 19
Acq On : 12-14-21 9:12:01 Operator: KA
Sample : BA47134W09 5/1020 Inst : Apollo
Misc : Water Multiplr: 4.90
IntFile : events.e
Quant Time: Dec 14 9:49 2021 Quant Results File: DOC1212.RES

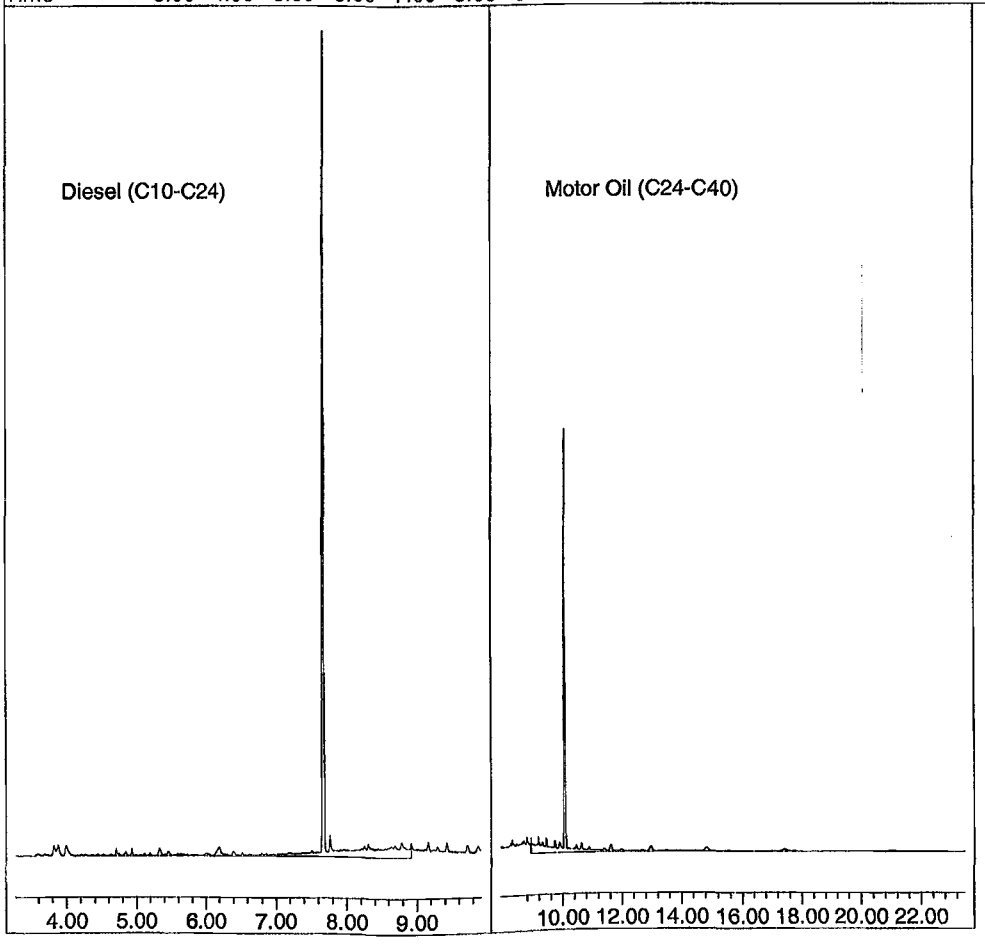
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	129613802	126.755 ppb
Surrogate Spike 147.059		Recovery =	86.19%
4) SA Octacosane(S)	10.05	117578551	159.187 ppb
Surrogate Spike 147.059		Recovery =	108.25%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	120649253	179.497 ppb
2) HBTM Motor Oil (C24-C40)	15.67	138539962	307.423 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211213\1213019.D
Sample : BA47134W09 5/1020





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211213\1213014.D Vial: 14
Acq On : 12-13-21 19:30:47 Operator: KA
Sample : 211207A BLK 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 14 9:46 2021 Quant Results File: DOC1212.RES

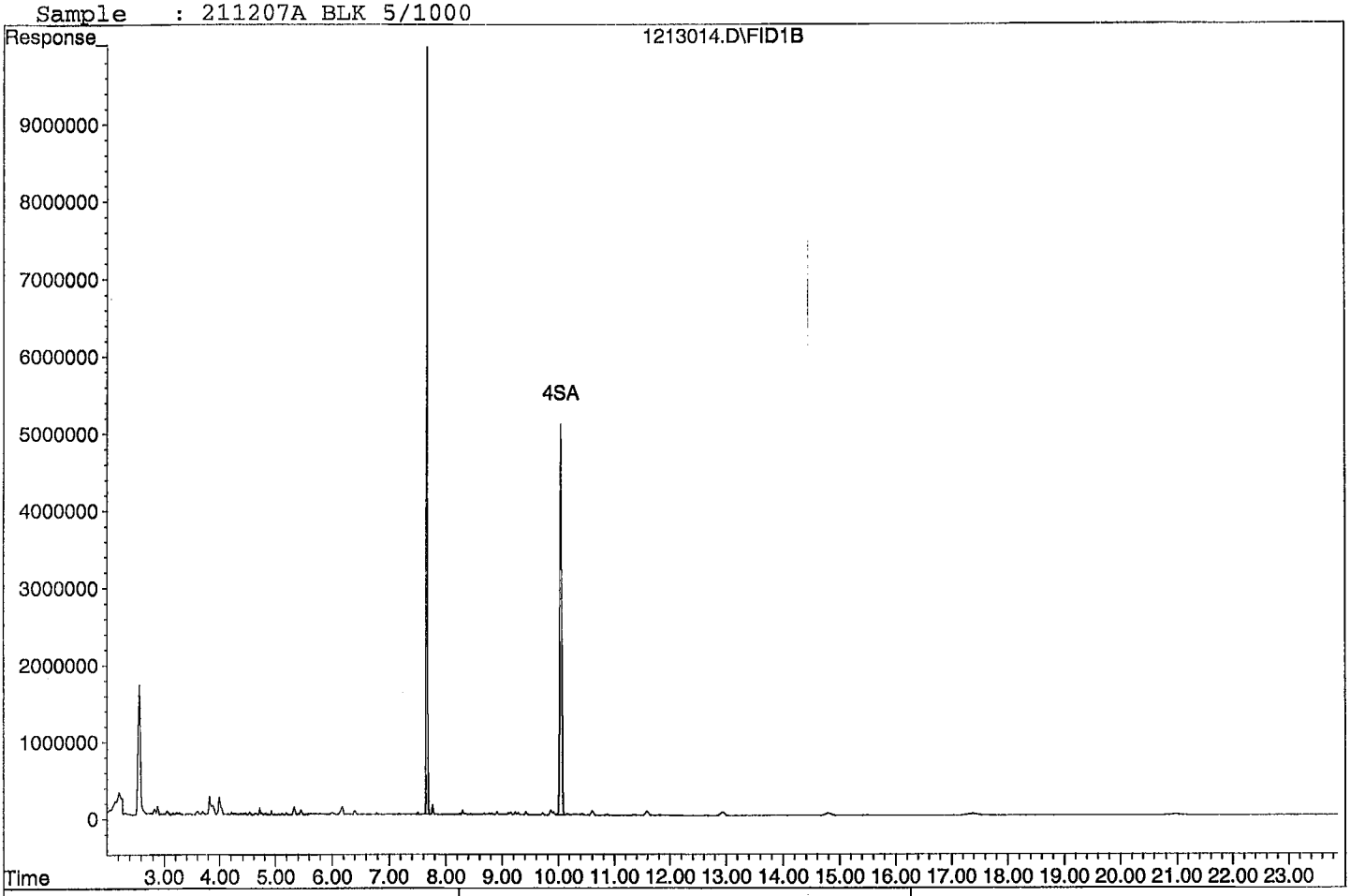
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

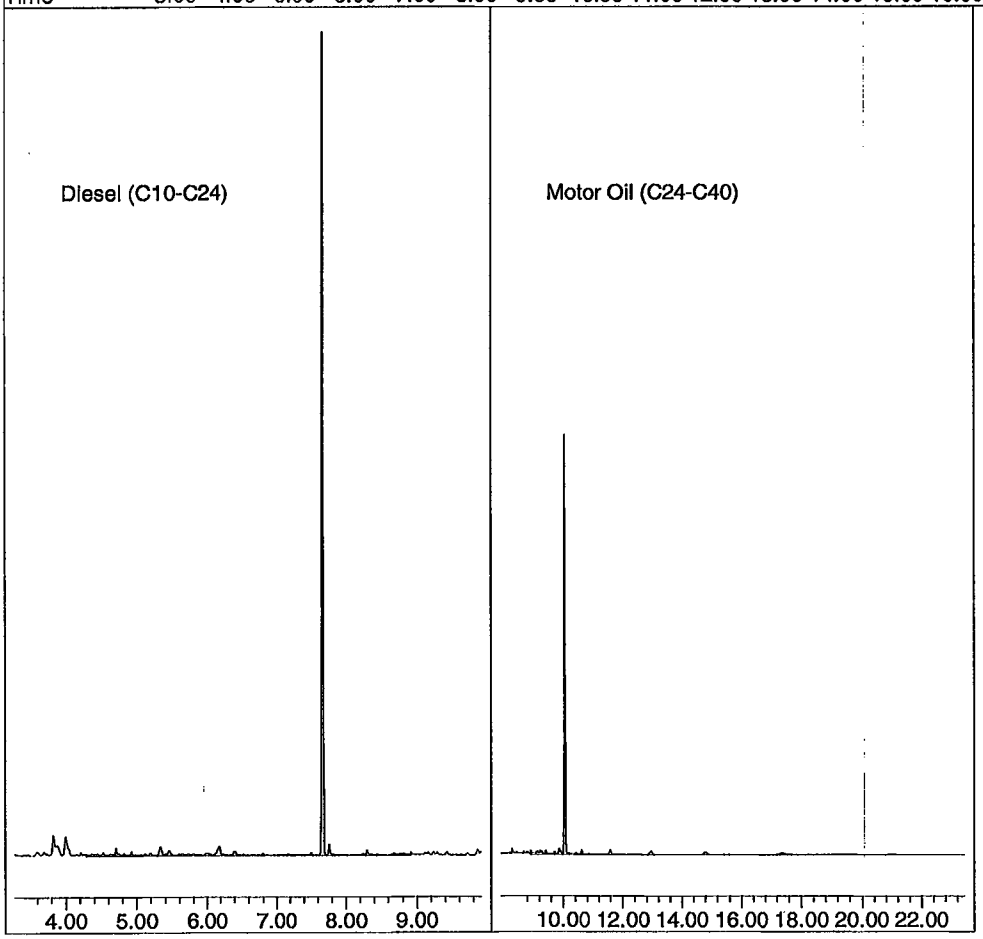
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	132711399	132.380 ppb
Surrogate Spike 150.000		Recovery =	88.25%
4) SA Octacosane(S)	10.05	117606389	162.409 ppb
Surrogate Spike 150.000		Recovery =	108.27%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	51291652	99.901 ppb
2) HBTM Motor Oil (C24-C40)	15.67	46667275	141.005 ppb
Target Compounds			

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

Data File: G:\APOLLO\DATA\211213\1213014.D
Sample : 211207A BLK 5/1000





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211213\1213015.D Vial: 15
Acq On : 12-13-21 19:58:59 Operator: KA
Sample : 211207A LCS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 14 9:47 2021 Quant Results File: DOC1212.RES

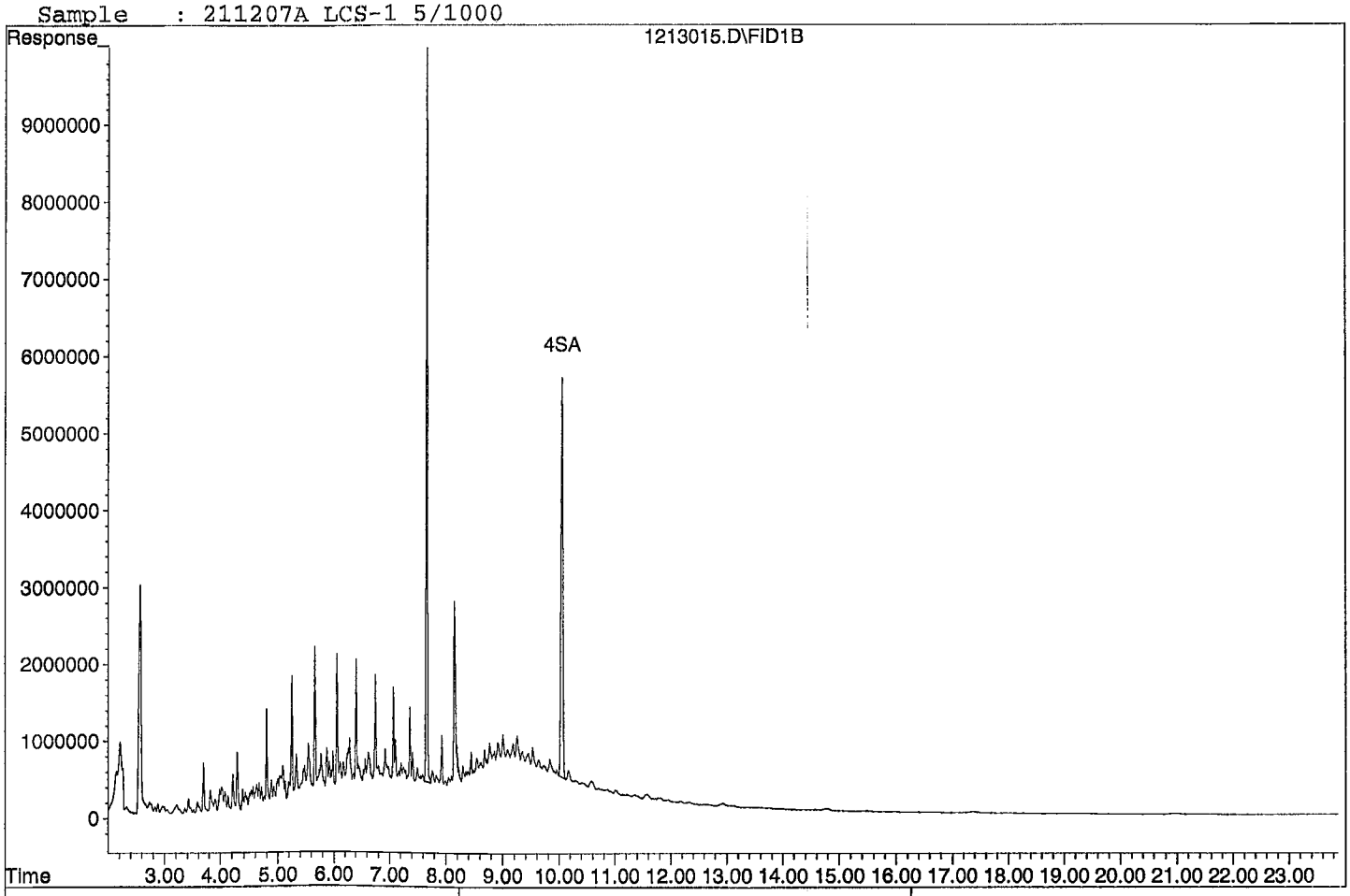
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

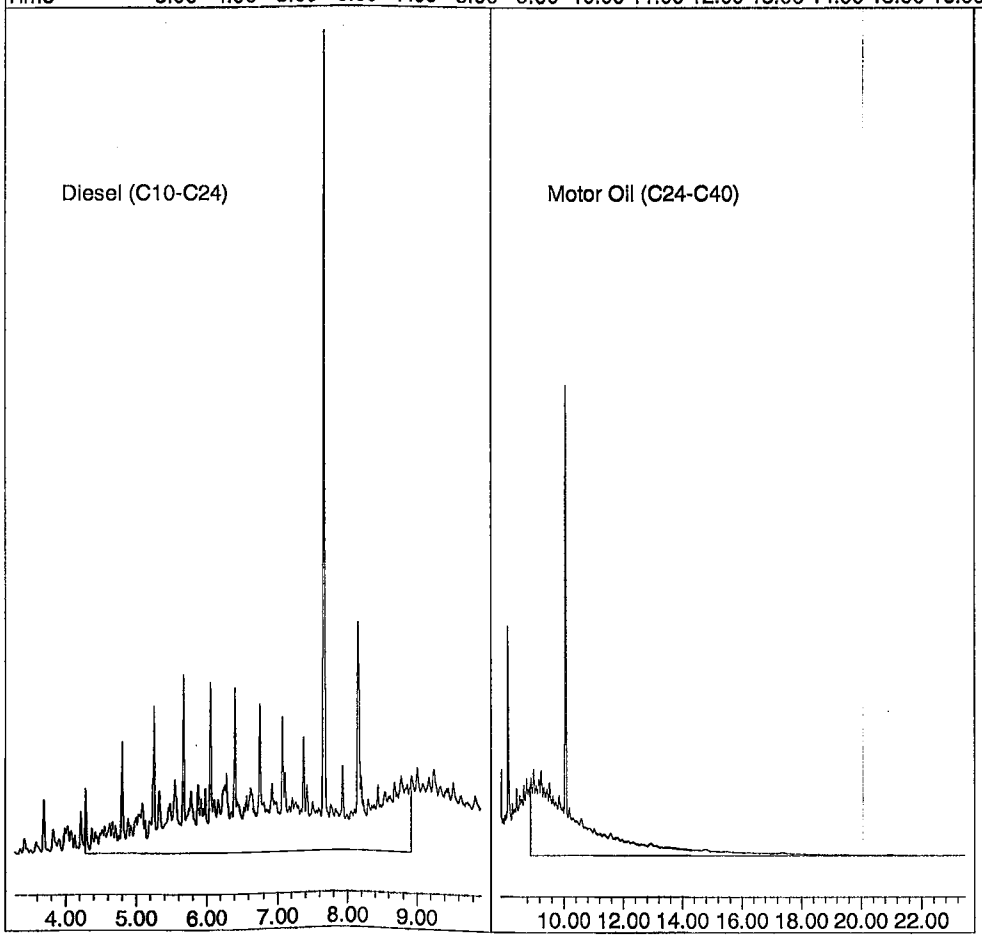
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	154367066	153.981 ppb
Surrogate Spike 150.000		Recovery =	102.65%
4) SA Octacosane(S)	10.05	121156402	167.312 ppb
Surrogate Spike 150.000		Recovery =	111.54%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	1525020352	1867.459 ppb
2) HBTM Motor Oil (C24-C40)	15.67	1139445366	2193.602 ppb

Target Compounds

Data File: G:\APOLLO\DATA\211213\1213015.D
Sample : 211207A LCS-1 5/1000





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211213\1213022.D Vial: 22
Acq On : 12-14-21 10:36:37 Operator: KA
Sample : 211207A LCSD-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 14 11:09 2021 Quant Results File: DOC1212.RES

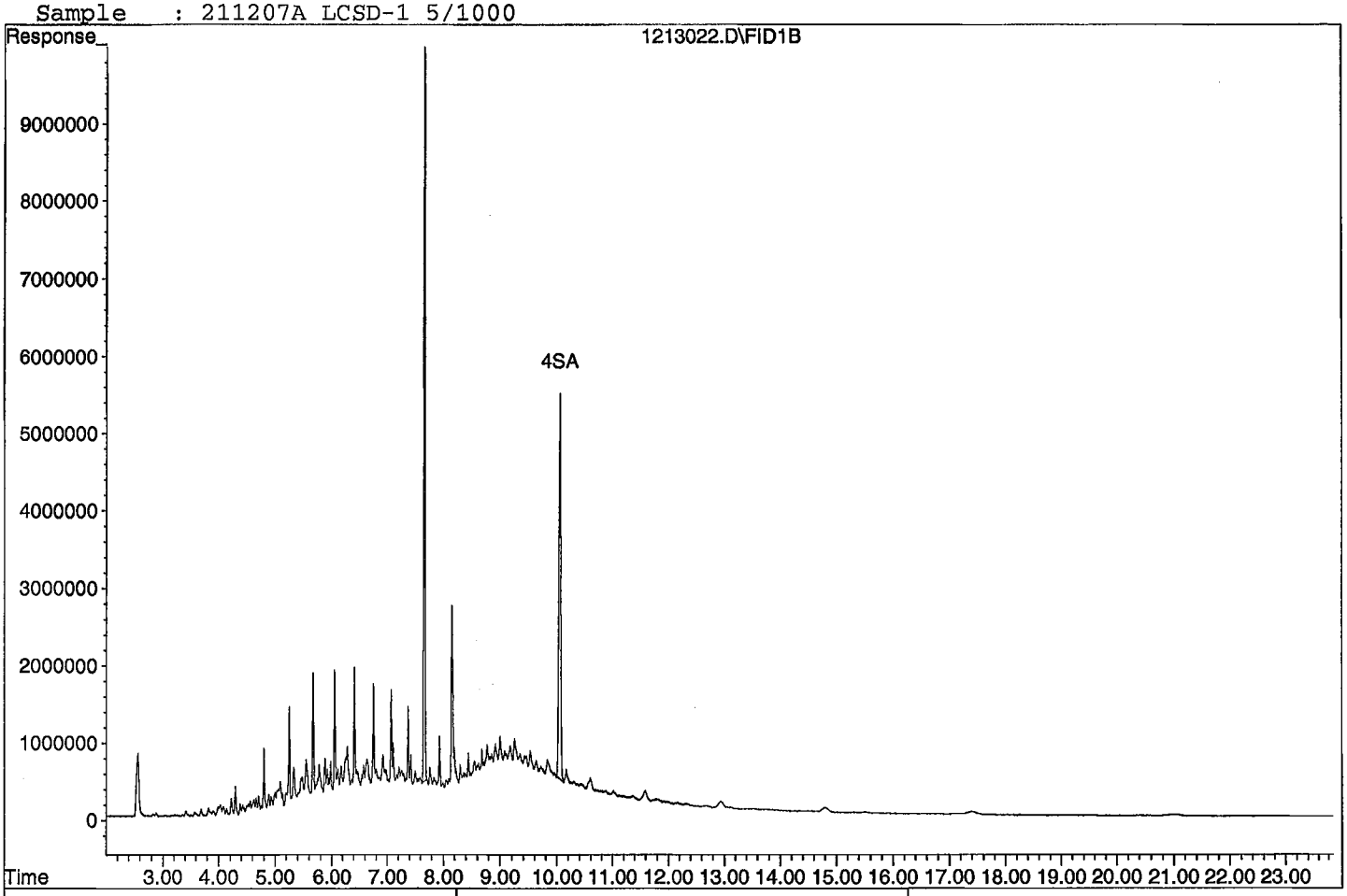
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

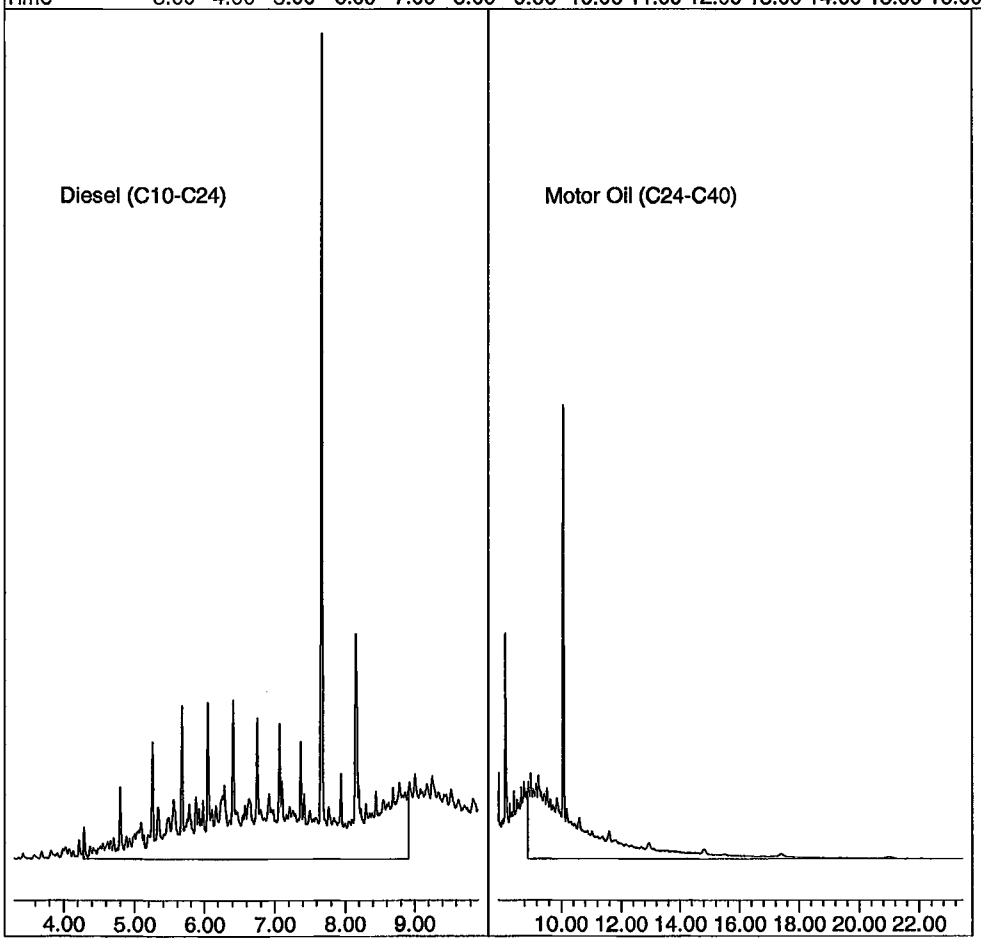
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	141145182	140.792 ppb
Surrogate Spike 150.000		Recovery =	93.86%
4) SA Octacosane(S)	10.05	113660082	156.960 ppb
Surrogate Spike 150.000		Recovery =	104.64%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	1406276939	1725.040 ppb
2) HBTM Motor Oil (C24-C40)	15.67	1152739984	2218.574 ppb

Target Compounds

Data File: G:\APOLLO\DATA\211213\1213022.D
Sample : 211207A LCSD-1 5/1000





Diesel / Motor Oil Calibration Curve

Prepared: 12/12/2021
Expires: 5/31/2026
Prepared By (Initials): KA

Methylene Chloride Lot No. 61117

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Conc. (ug/mL)	APPL Mix Name	Reference to APPL Prep Date and Lot #'s	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil - 2	APPL	10	Diesel / Motor Oil - 1	Perp'd:12/09/21 A0164586-53276, 53175, 53277 and 53278, A0168842-53280, and CL16893-53203	See man. Exp date	11/30/2027 10/31/2027 5/31/2026 3/31/28	100uL	200uL	MC	5
Diesel / Motor Oil - 3		50	Diesel / Motor Oil - 2				200uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	Restek	2,000	Diesel / Motor Oil - 3				25uL	1mL	MC	50
			Diesel / Motor Oil - 4				125uL	1mL	MC	250
			Diesel / Motor Oil - 5				500uL	1mL	MC	1000
			Diesel / Motor Oil - 6				750uL	1mL	MC	1500
			Diesel / Motor Oil - 7				100uL	100uL	N/A	2,000

Diesel / Motor Oil Second Source

Prepared: 10/28/2021
Expires: 10/28/2024
Prepared By (Initials): KA
Methylene Chloride Lot No. 61117

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2 Second Source	Phenova	AL0-101287	50,000	**CL16477-52980**	**See man. Exp date**	**2/28/2027**	50uL	10mL	MC	250
Motor Oil Second Source	Absolute	51094	50,000	**102819-52981**		**10/28/2024**	50uL			

Diesel / Motor Oil Calibration Standard

Prepared: 12/9/2021 **Prepared By (Initials):** KA

Expires: 5/31/2026

Methylene Chloride Lot No. 61117

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	**A0164586-53276, 53275, 53277, and 53278**	**See man. Exp date**	**10/31/2027**	400uL	10mL	MC	2000
Motor Oil	Restek	31464	50,000	**A0168842-52820**		**3/31/2028**	400uL			2000
THC Surrogate	Phenova	ALO-130161	600	**CL16893-53203**		**5/31/2026**	1666uL			100

Diesel Motor Oil Mix

Prepared: 12/2/2021 **Prepared By (Initials):** KA

Expires: 11/30/2027

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	**A0164586-53277 and A0164586-53276**	**See man. Date**	**11/30/2027**	2.00 mL	4.0 mL	NA	25,000
Motor Oil Composite	Restek	31464	50,000	**A0168842-53172 and 53173**	**See man. Date**	**3/31/2028**	2.00 mL			25,000

THC Surrogate

Prepared: 11/23/2021 **KA**

Expires: 5/31/2026

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
O-terphenyl / Octacosane Mix	Phenova	ALO-130161	600	**CL16893-53204**	**See ma. Date**	**5/31/2026**	N/A	N/A	N/A	600

_LIQ005SGC

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH- 3520C w/SGC	Extraction Set	211207A	Extraction Method	LIQ005SGC	Units	mL

Spiked ID 1	Diesel Motor Oil Mix 12-2-21 3-31-28		Surrogate ID 1	THC Surrogate 11-23-21 11-12-22	
Spiked ID 2	Decanoic 1000ug/mL Acid Solution 12-1-21 7-8-24		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	NO	
Spiked ID 7			Ext. Start Time:	12/07/21 10:29	
Spiked ID 8			Ext. End Time:	12/08/21 5:55	
			GC Requires Extract By:		

pH1	2	12/07/21 9:00	Water Bath Temp 1 °C	42/41.1 °C
pH2			Water Bath Temp 2 °C	33/34.1
pH3			Water Bath Temp 3 °C	35/34.5 °C

Spiked By: SR **Date** 12/7/2021 **Witnessed By:** AGM **Date** 12/7/2021

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	211207A Blk		0.050	2	0.250	1	1000	5	2	12/07/21 9:05	*
						equip	E-HP3 E-WB1				
2	211207A LCS-1		0.080,0.050	1,2	0.250	1	1000	5	2	12/07/21 9:05	*
						equip	E-HP4 E-WB2				
3	211207A LCSD-1		0.080,0.050	1,2	0.250	1	1000	5	2	12/07/21 9:05	*
						equip	E-HP6 E-WB3				
4	BA47128	BA47128W09	0.050	2	0.250	1	1050	5	2	12/07/21 9:05	98381 *
						equip	E-HP7 E-WB1				
5	BA47132	BA47132W09	0.050	2	0.250	1	1030	5	2	12/07/21 9:05	98381 *
						equip	E-HP8 E-WB2				
6	BA47134	BA47134W09	0.050	2	0.250	1	1020	5	2	12/07/21 9:05	98381 *
						equip	E-HP9 E-WB3				

Solvent and Lot#	
1+1 HCL (5mLs)	60358
PH Strips	HC160347
Dichloromethane (DCM)	61117
Filter Paper	400202
Sodium Sulfate	2021071206
SILICA GEL (*)	050627T

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	CW
Date	12/8/21
Time	13:40
Refrigerator	HOBART

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

Modified	12/9/2021 8:44:03 AM

Reviewed By: KY **Date** 12/9/2021

Injection Log

Directory: G:\APOLLO\DATA\211212\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	1212006.D	1	DMO Calibration 1 12/12/21	Water	12-12-21 16:08:57
2	5	1212007.D	1	DMO Calibration 2 12/12/21	Water	12-12-21 16:37:14
3	6	1212008.D	1	DMO Calibration 3 12/12/21	Water	12-12-21 17:05:32
4	7	1212009.D	1	DMO Calibration 4 12/12/21	Water	12-12-21 17:33:48
5	8	1212010.D	1	DMO Calibration 5 12/12/21	Water	12-12-21 18:02:04
6	9	1212011.D	1	DMO Calibration 6 12/12/21	Water	12-12-21 18:30:20
7	10	1212012.D	1	DMO Calibration 7 12/12/21	Water	12-12-21 18:58:36
8	11	1212013.D	1	DMO Second Source 10/28/21	Water	12-12-21 19:26:51
9	3	1213003.D	1	DMO STD DF2 12/09/21	Water	12-13-21 14:20:32
10	14	1213014.D	5	211207A BLK 5/1000	Water	12-13-21 19:30:47
11	15	1213015.D	5	211207A LCS-1 5/1000	Water	12-13-21 19:58:59
12	17	1213017.D	4.7619	BA47128W09 5/1050	Water	12-13-21 20:55:22
13	18	1213018.D	4.85437	BA47132W09 5/1030	Water	12-14-21 8:44:00
14	19	1213019.D	4.90196	BA47134W09 5/1020	Water	12-14-21 9:12:01
15	20	1213020.D	1	DMO STD DF2 12/09/21	Water	12-14-21 9:40:09
16	22	1213022.D	5	211207A LCSD-1 5/1000	Water	12-14-21 10:36:37
17	32	1213032.D	1	DMO STD DF2 12/09/21	Water	12-14-21 15:29:14

ORGANICS
Calibration Data

TPH Extractables
DOC1212

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 12/12/2021
Matrix: Water Instrument: Apollo Initials: LAC

			1212006.D	1212007.D	1212008.D	1212009.D	1212010.D	1212011.D	1212012.D								
		Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	Q
1	HATML	Diesel (C10-C24)	8409900	1925328	2069958	2001689	2006236	1962917	2154305				2932905	82	HATM	0.997	
2	HBTML	Motor Oil (C24-C40)	6316816	1467738	1268546	1230563	1263138	1244243	1381191				2024605	94	HBTM	0.996	
3	SA	Ortho-Terphenyl(S)		2678531	2553559	2458004	2431880	2380674	2534932				2506263	4.2	SA		
4	SA	Octacosane(S)		1928500	1894461	1754396	1742966	1677732	1863978				1810339	5.5	SA		
5																	
6																	
7																	
8																	
9																	
10																	
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5.305152

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212006.D Vial: 4
Acq On : 12-12-21 16:08:57 Operator: KA
Sample : DMO Calibration 1 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:49 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

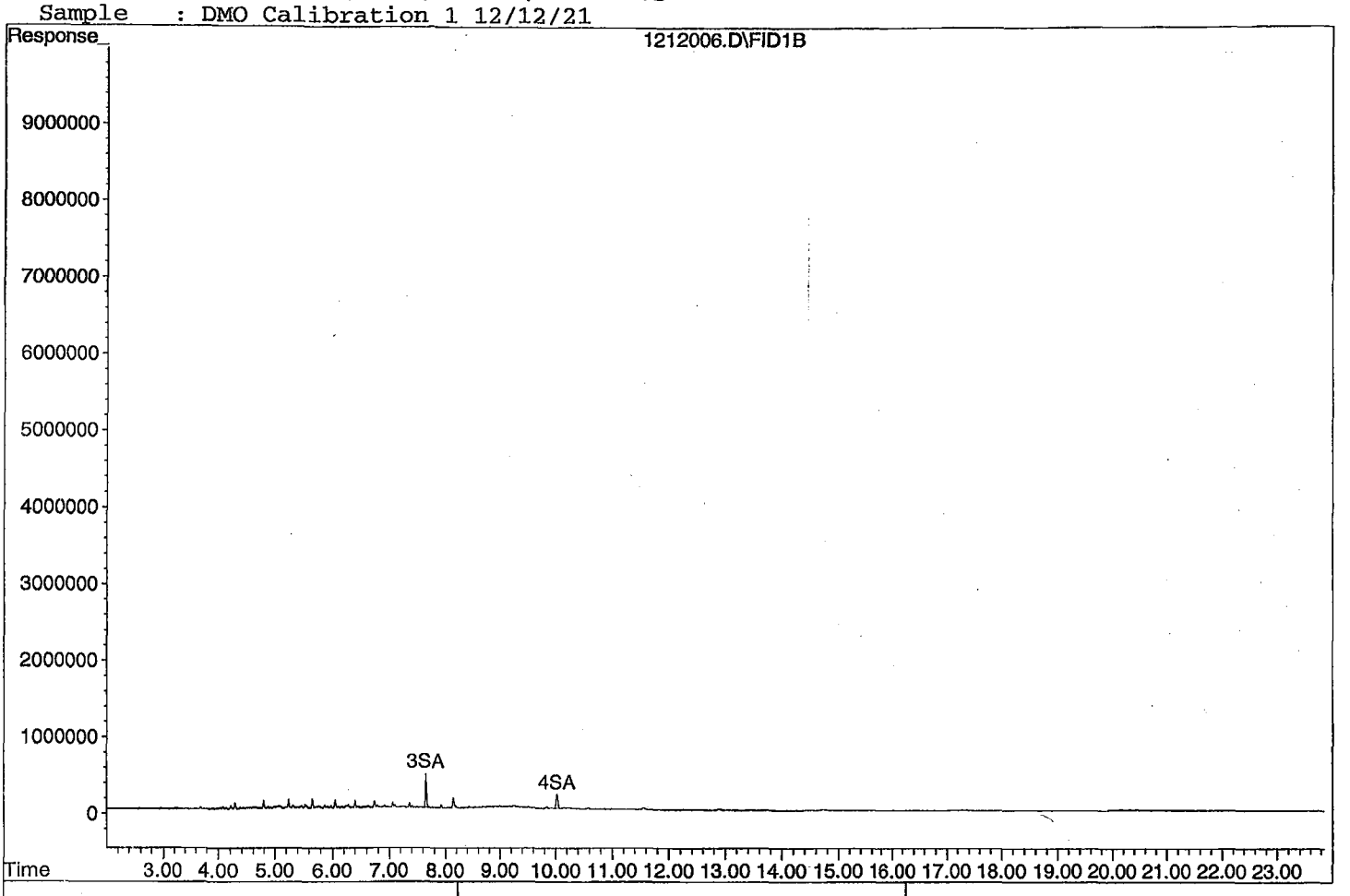
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

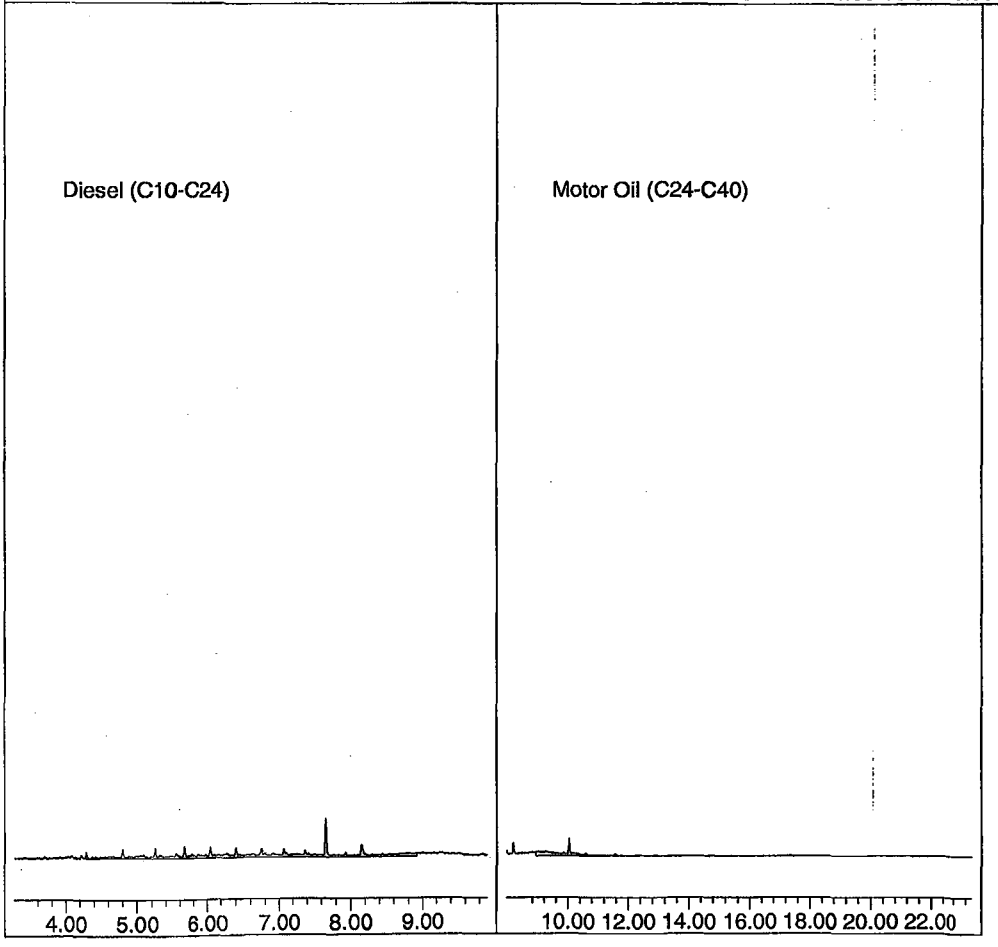
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.65	5591530	362.599 ppb
Surrogate Spike 30.000		Recovery =	1208.66%
4) SA Octacosane(S)	10.03	4056830	1.381 ppb
Surrogate Spike 30.000		Recovery =	4.60%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	84098995	26.361 ppb
2) HBTM Motor Oil (C24-C40)	15.67	63168156	34.400 ppb

Target Compounds

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

Data File: G:\APOLLO\DATA\211212\1212006.D
Sample : DMO Calibration 1 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212007.D Vial: 5
Acq On : 12-12-21 16:37:14 Operator: KA
Sample : DMO Calibration 2 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:49 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

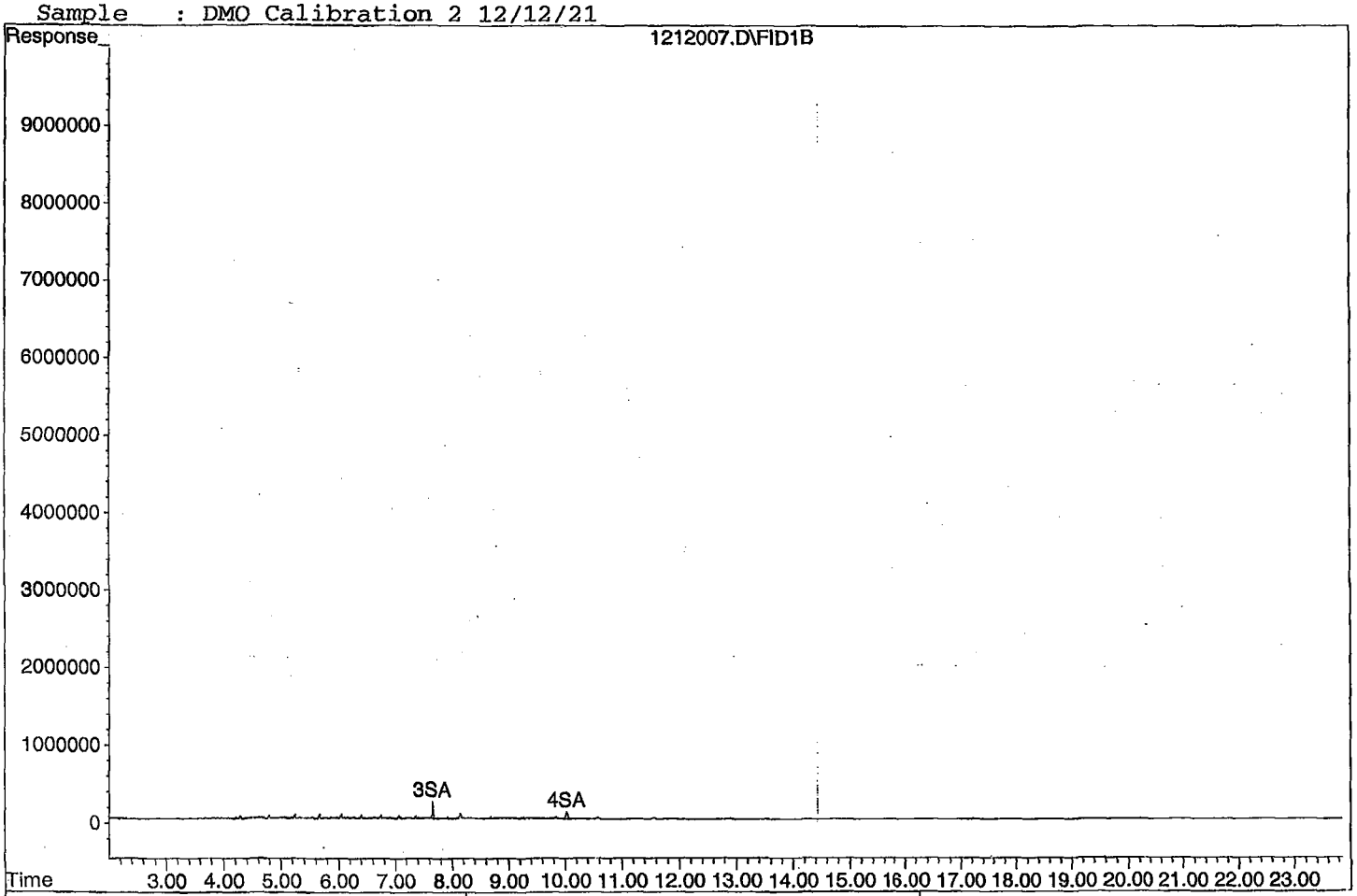
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

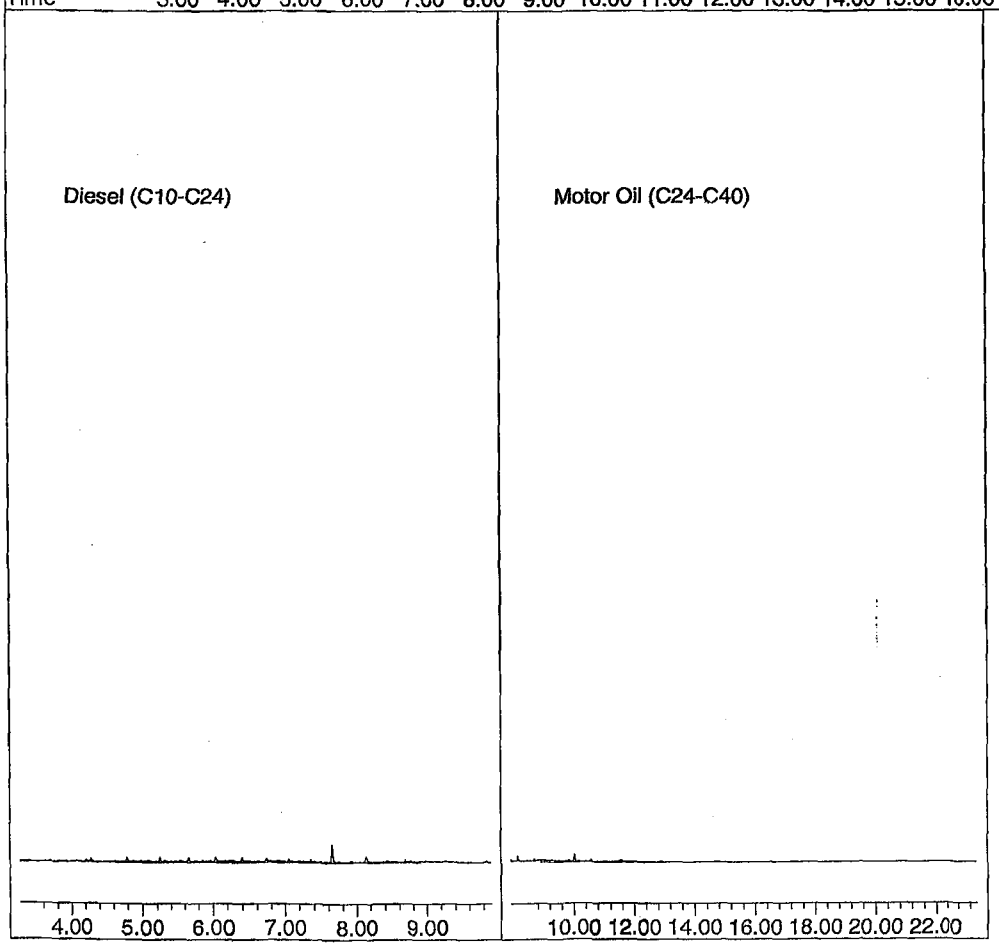
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.65	2678531	172.354 ppb
Surrogate Spike 30.000	Recovery =		574.51%
4) SA Octacosane(S)	10.03	1928500	0.788 ppb
Surrogate Spike 30.000	Recovery =		2.63%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	38506565	16.036 ppb
2) HBTM Motor Oil (C24-C40)	15.67	29354754	21.697 ppb

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212007.D
Sample : DMO Calibration 2 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212008.D Vial: 6
Acq On : 12-12-21 17:05:32 Operator: KA
Sample : DMO Calibration 3 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

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

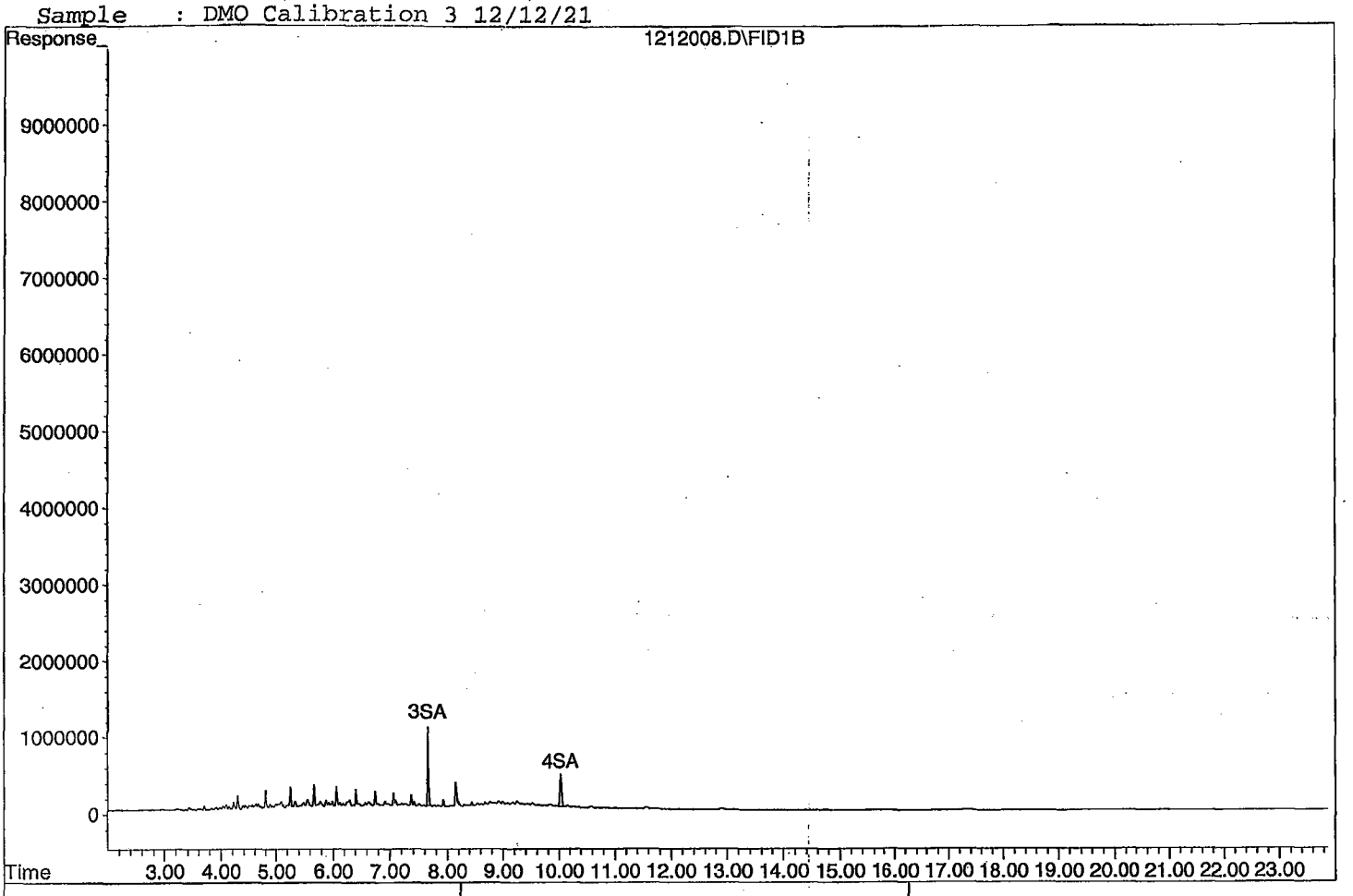
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.65	12767795	831.275	ppb
Surrogate Spike 30.000	Recovery	=	2770.92%	
4) SA Octacosane(S)	10.03	9472303	2.889	ppb
Surrogate Spike 30.000	Recovery	=	9.63%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.60	206995836	54.193	ppb
2) HBTM Motor Oil (C24-C40)	15.67	126854570	58.325	ppb

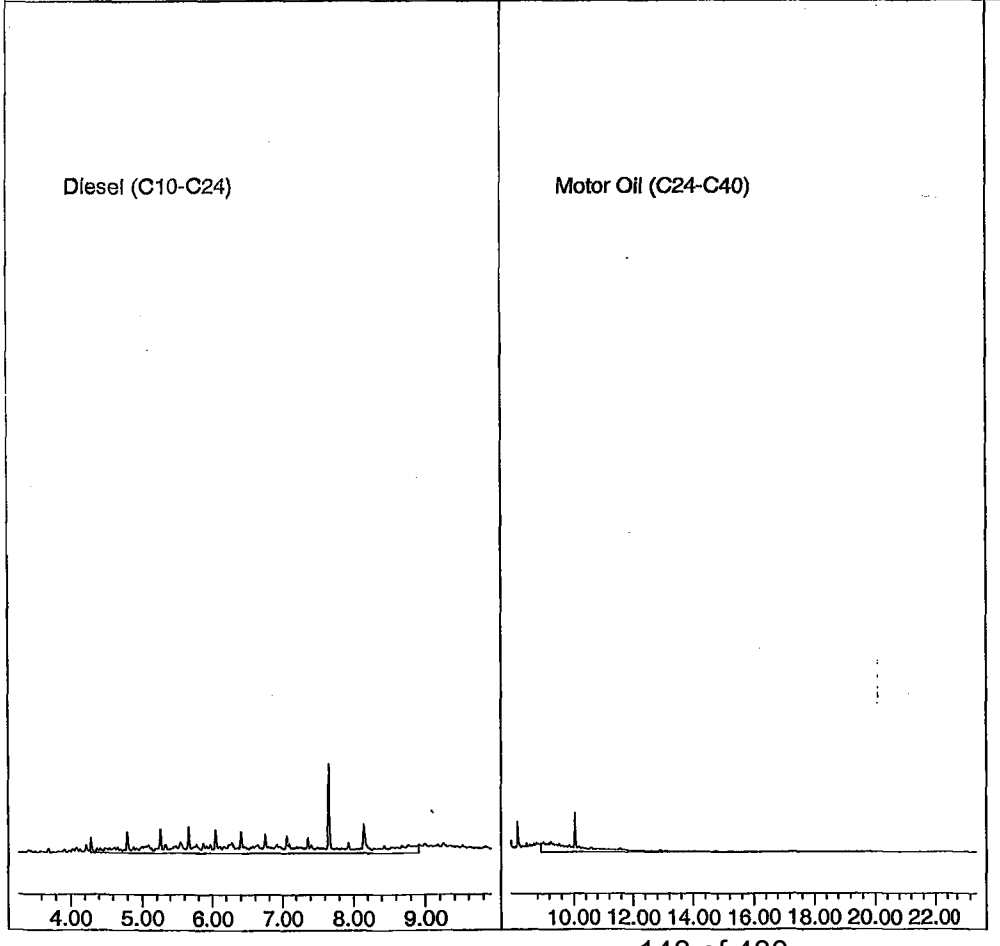
Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
1212008.D DOC1212.M Mon Dec 13 07:45:07 2021 Page 1

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212008.D
Sample : DMO Calibration 3 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212009.D Vial: 7
Acq On : 12-12-21 17:33:48 Operator: KA
Sample : DMO Calibration 4 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

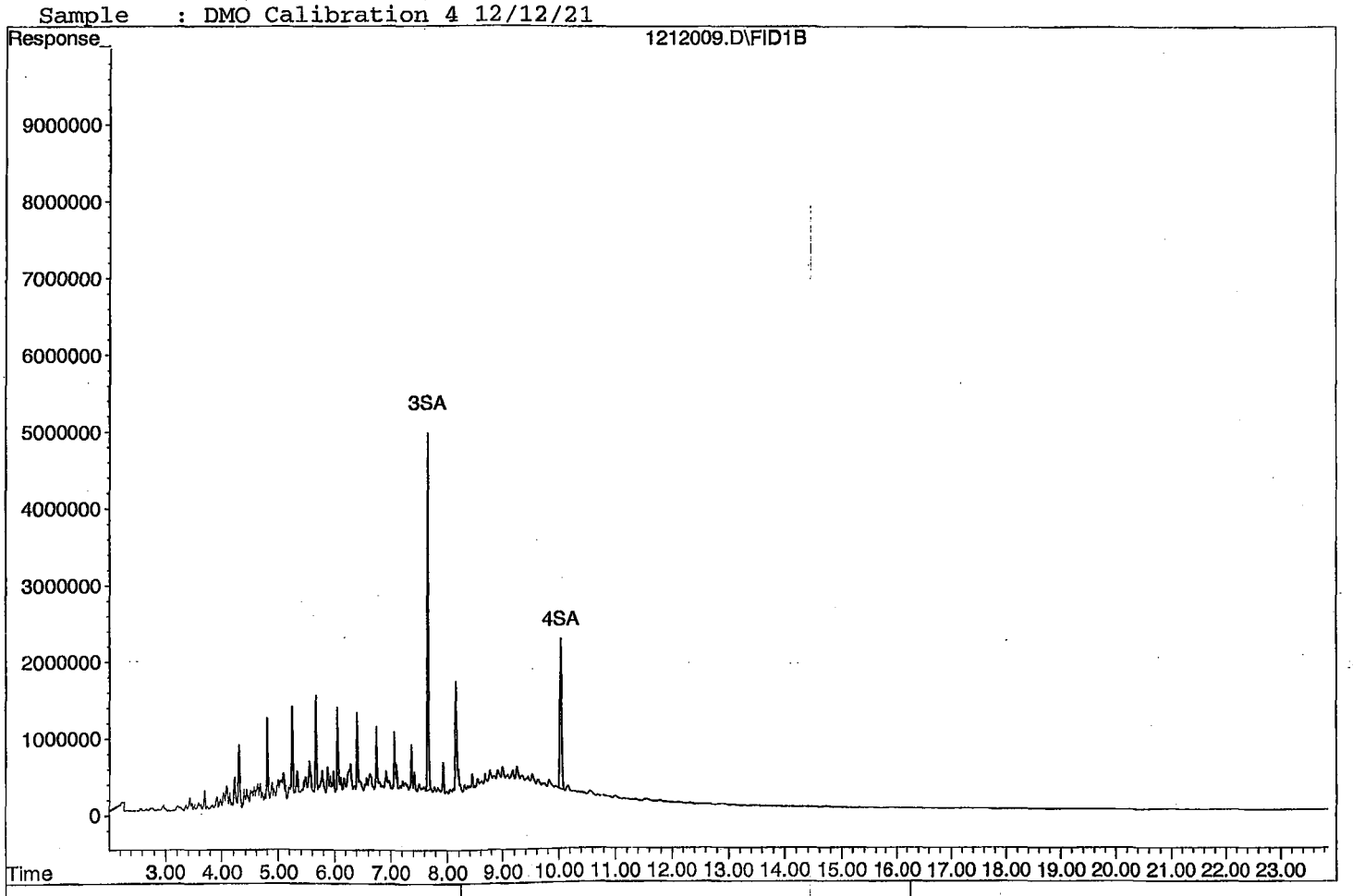
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

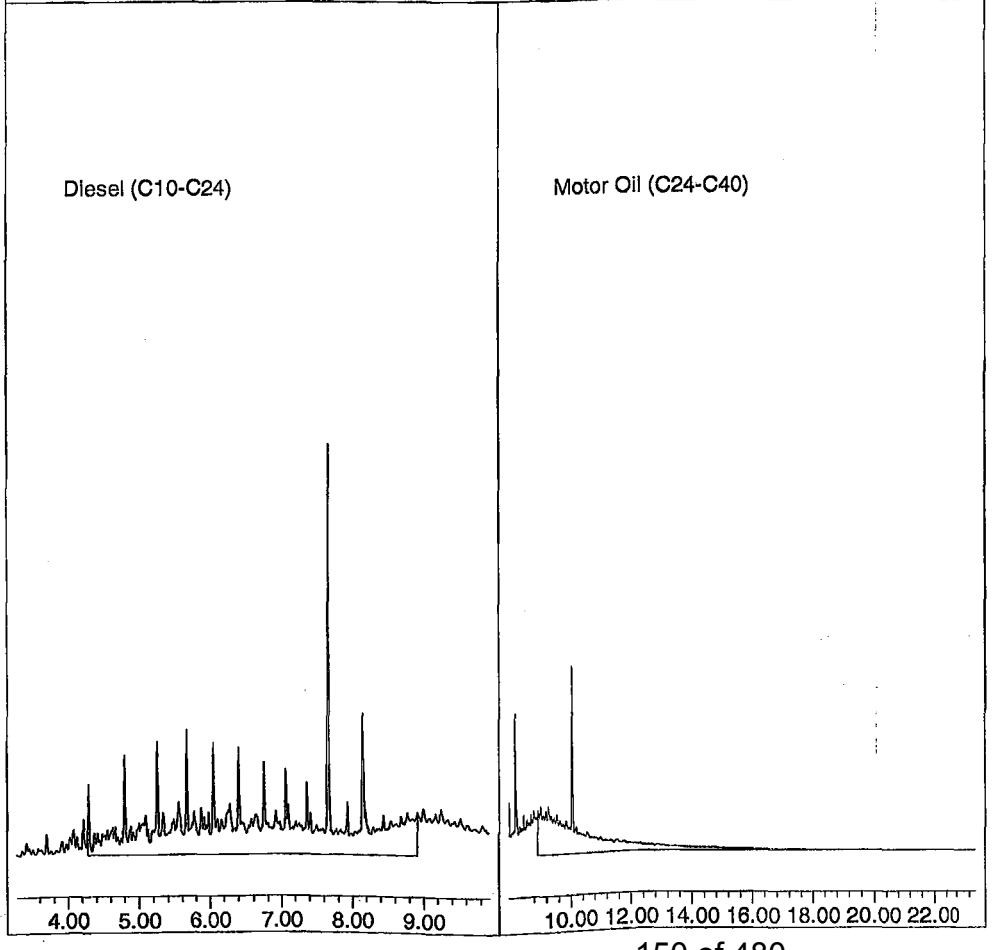
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	61450098	4010.675 ppb
Surrogate Spike 30.000		Recovery =	13368.92%
4) SA Octacosane(S)	10.03	43859896	12.467 ppb
Surrogate Spike 30.000		Recovery =	41.56%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	1000844348	233.976 ppb
2) HBTM Motor Oil (C24-C40)	15.67	615281568	241.810 ppb

Target Compounds

Data File: G:\APOLLO\DATA\211212\1212009.D
Sample : DMO Calibration 4 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212010.D Vial: 8
Acq On : 12-12-21 18:02:04 Operator: KA
Sample : DMO Calibration 5 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

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

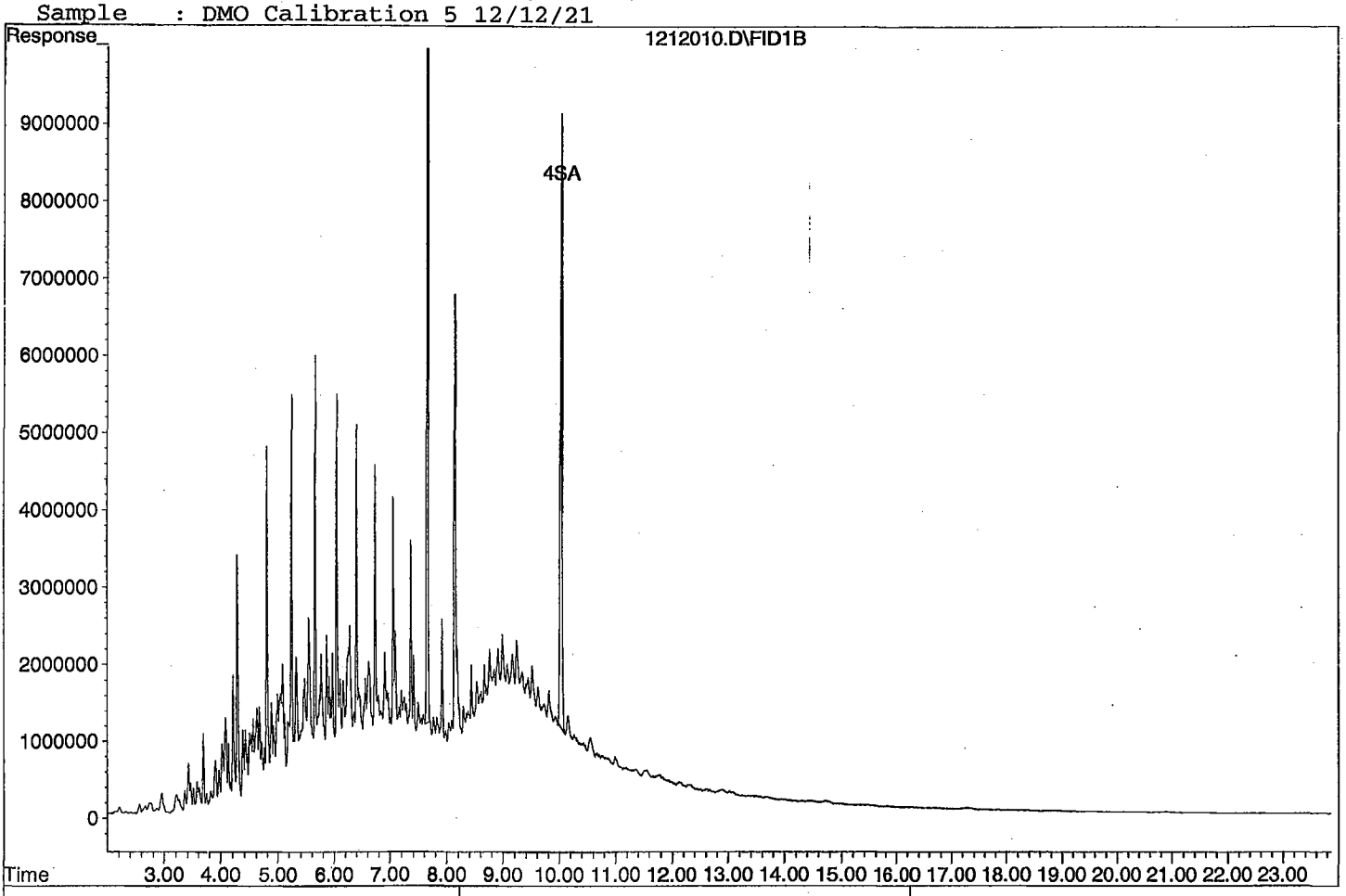
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	243188022	15879.826 ppb
Surrogate Spike 30.000		Recovery =	52932.75%
4) SA Octacosane(S)	10.04	174296600	48.797 ppb
Surrogate Spike 30.000		Recovery =	162.66%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	4012472898	916.018 ppb
2) HBTM Motor Oil (C24-C40)	15.67	2526276181	959.706 ppb

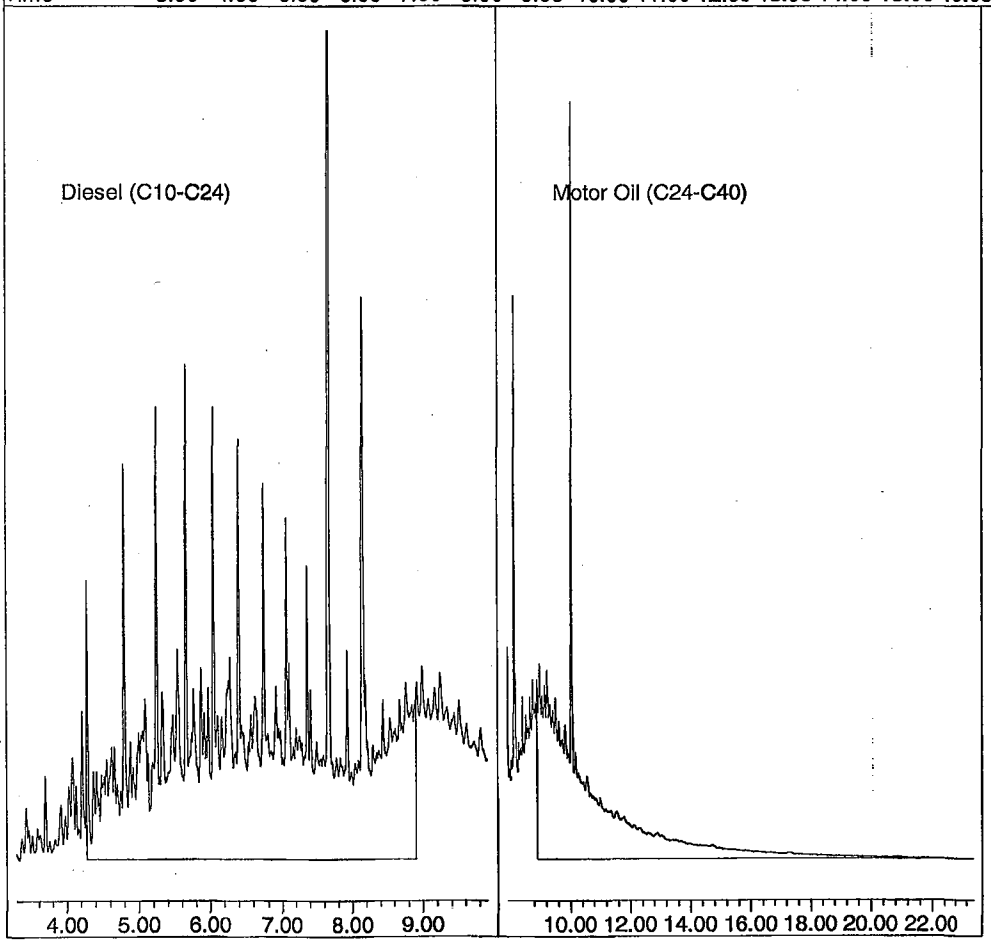
Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data File: G:\APOLLO\DATA\211212\1212010.D
Sample : DMO Calibration 5 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212011.D Vial: 9
Acq On : 12-12-21 18:30:20 Operator: KA
Sample : DMO Calibration 6 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

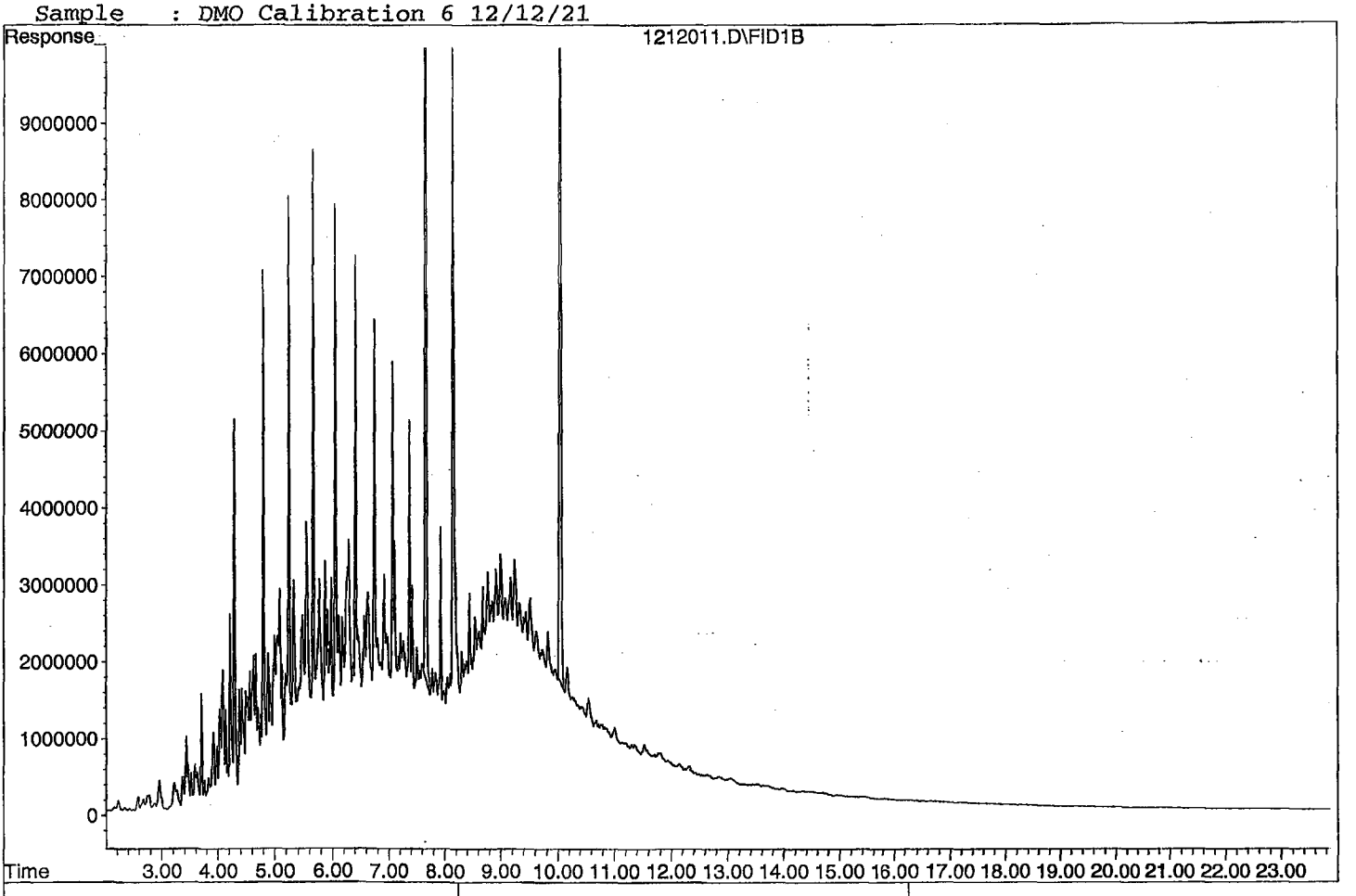
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

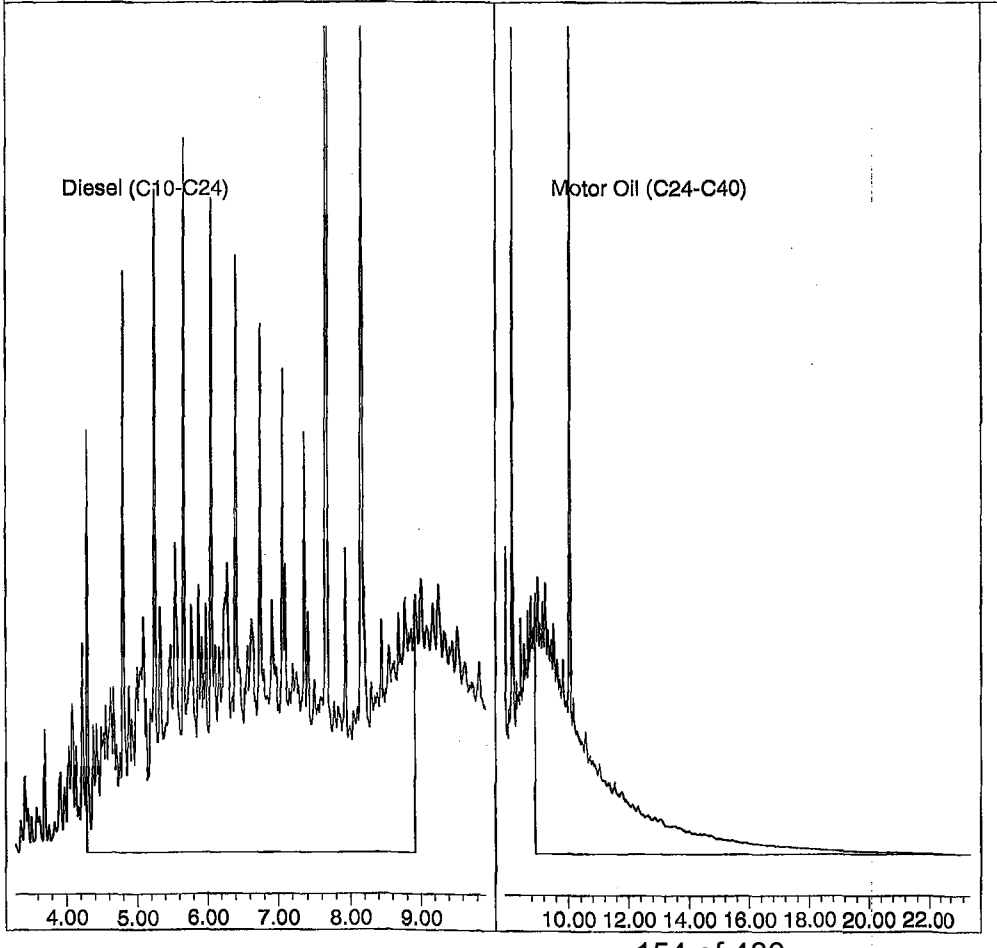
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.66	357101161	23319.396	ppb
Surrogate Spike 30.000	Recovery = 77731.32%			
4) SA Octacosane(S)	10.04	251659753	70.344	ppb
Surrogate Spike 30.000	Recovery = 234.48%			
Target Compounds				
1) HATM Diesel (C10-C24)	6.60	5888751722	1340.938	ppb
2) HBTM Motor Oil (C24-C40)	15.67	3732727704	1412.928	ppb
Target Compounds				

(f)=RT Delta > 1/2 Window (m)=manual int.
1212011.D DOC1212.M Mon Dec 13 07:45:17 2021 Page 1

Data File: G:\APOLLO\DATA\211212\1212011.D
Sample : DMO Calibration 6 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212012.D Vial: 10
Acq On : 12-12-21 18:58:36 Operator: KA
Sample : DMO Calibration 7 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

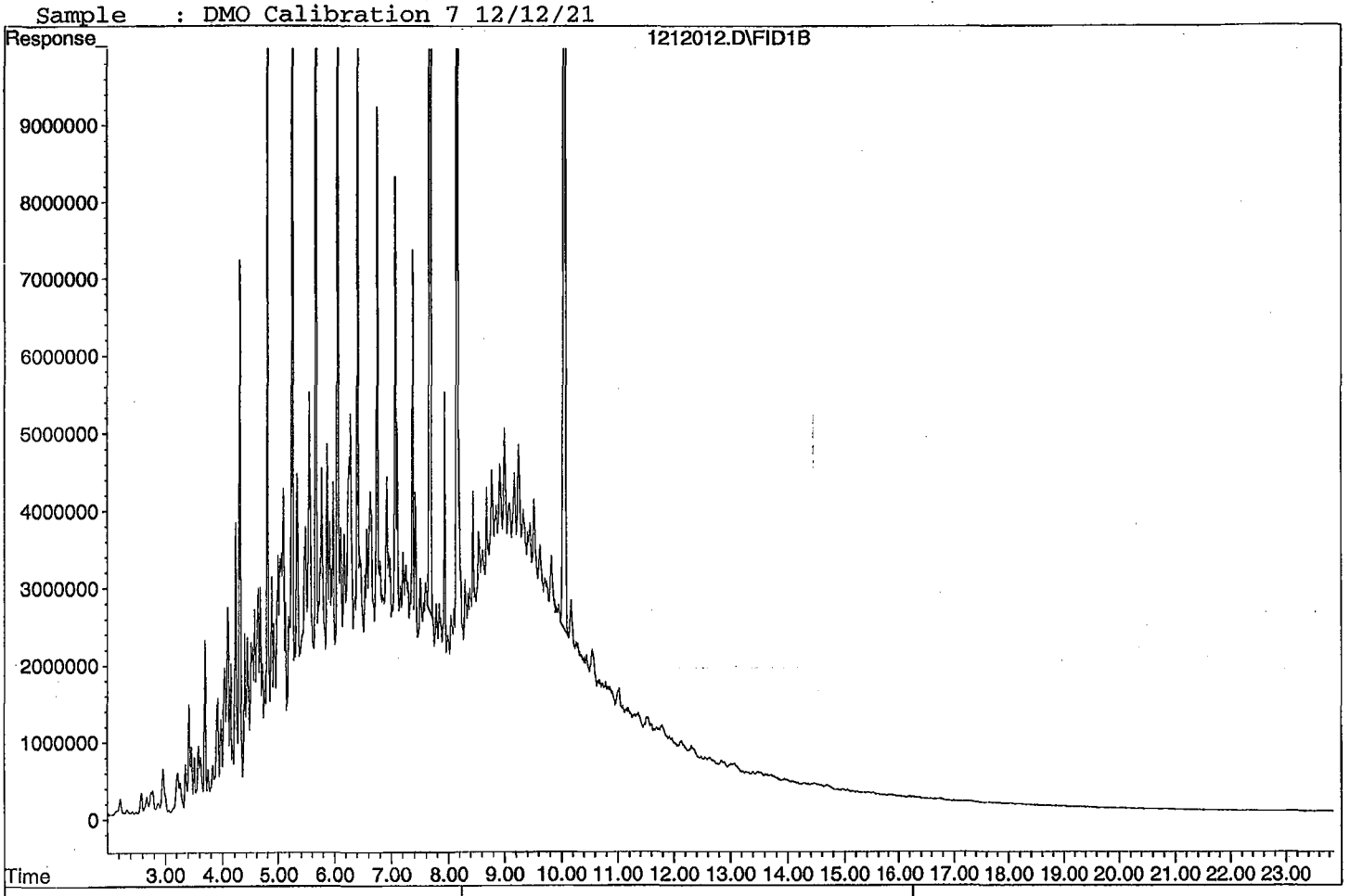
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

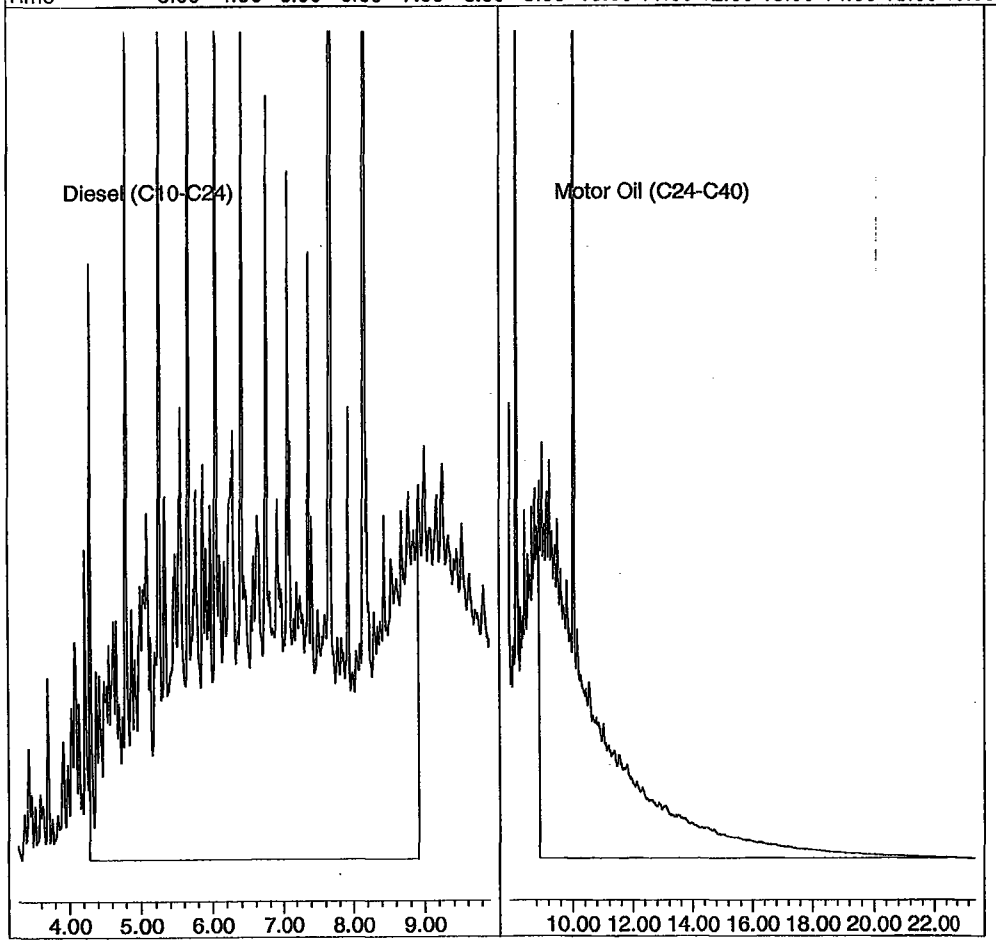
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	506986332	33108.270 ppb
Surrogate Spike 30.000		Recovery	= 110360.90%
4) SA Octacosane(S)	10.05	372795641	104.084 ppb
Surrogate Spike 30.000		Recovery	= 346.95%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	8617221755	1958.853 ppb
2) HBTM Motor Oil (C24-C40)	15.67	5524762507	2086.135 ppb
Target Compounds			

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

Data File: G:\APOLLO\DATA\211212\1212012.D
Sample : DMO Calibration 7 12/12/21





TPH Extractables
DOC1212

Form 7

Second Source Calibration

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

SDG No:
Date Analyzed: 12/12/2021
Instrument: Apollo
Initial Cal. Date: 12/12/2021
Data File: 1212013.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2932900	1827280	38	HATML	9.3
2	HBTM	Motor Oil (C24-C40)	2024600	1287750	36	HBTML	1.0
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40							
		Average			37.0		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212013.D Vial: 11
Acq On : 12-12-21 19:26:51 Operator: KA
Sample : DMO Second Source 10/28/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:53 2021 Quant Results File: DOC1212.RES

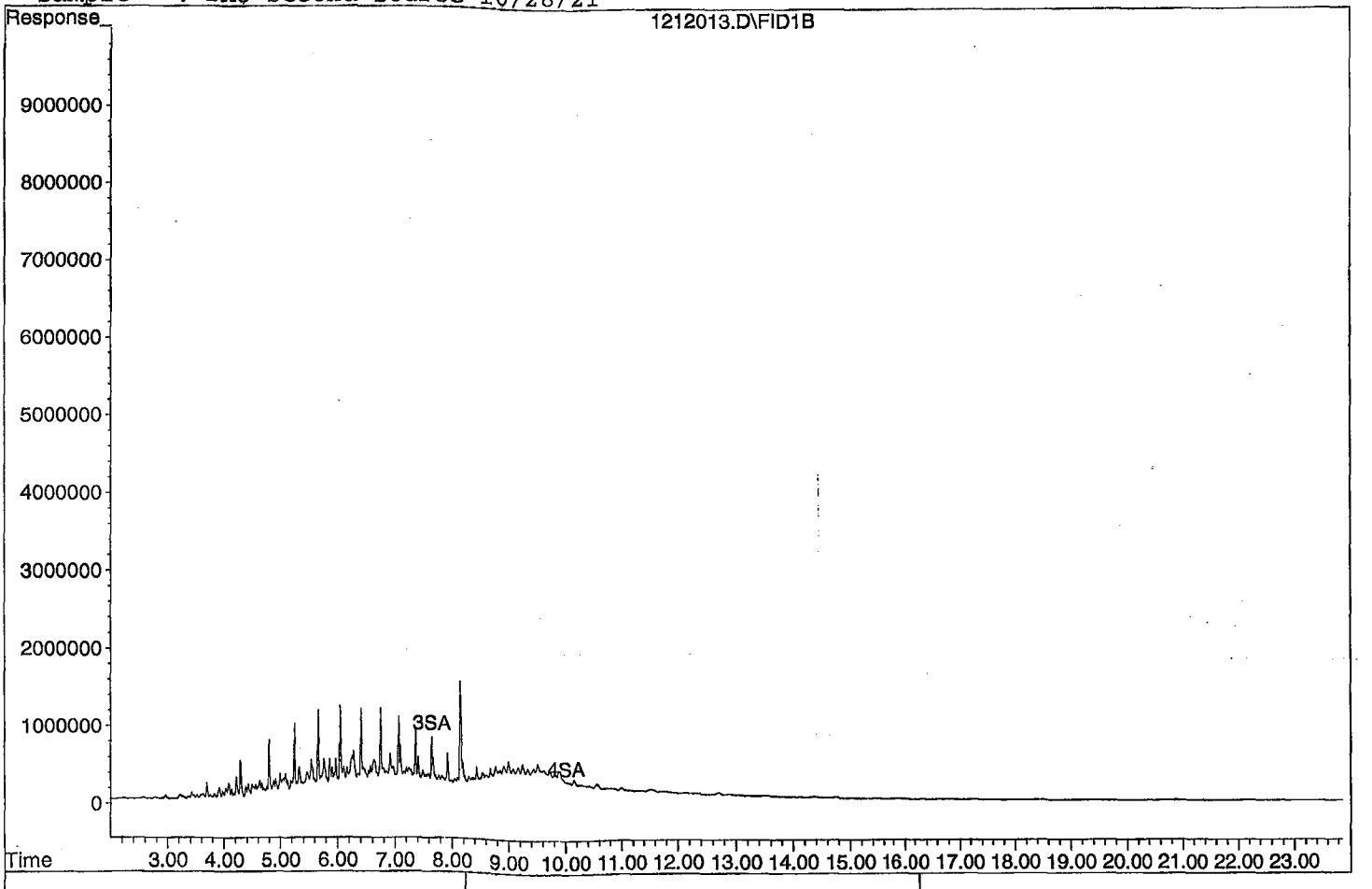
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

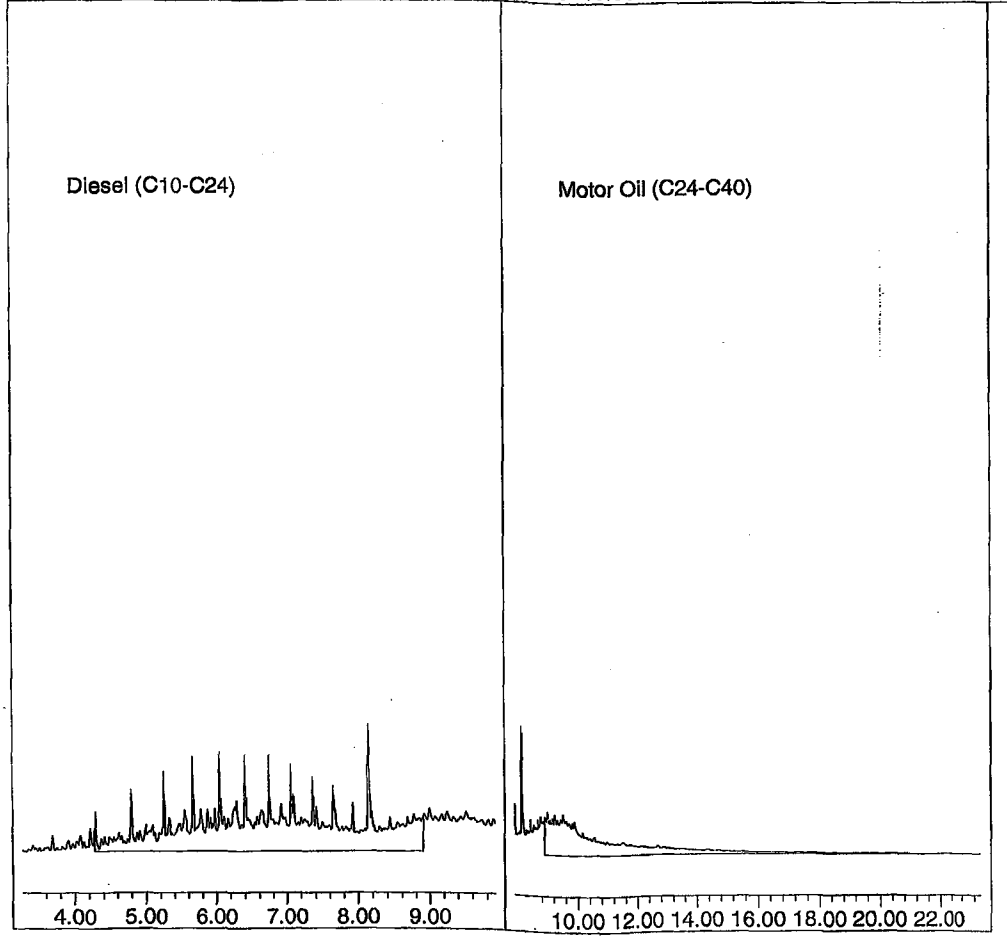
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

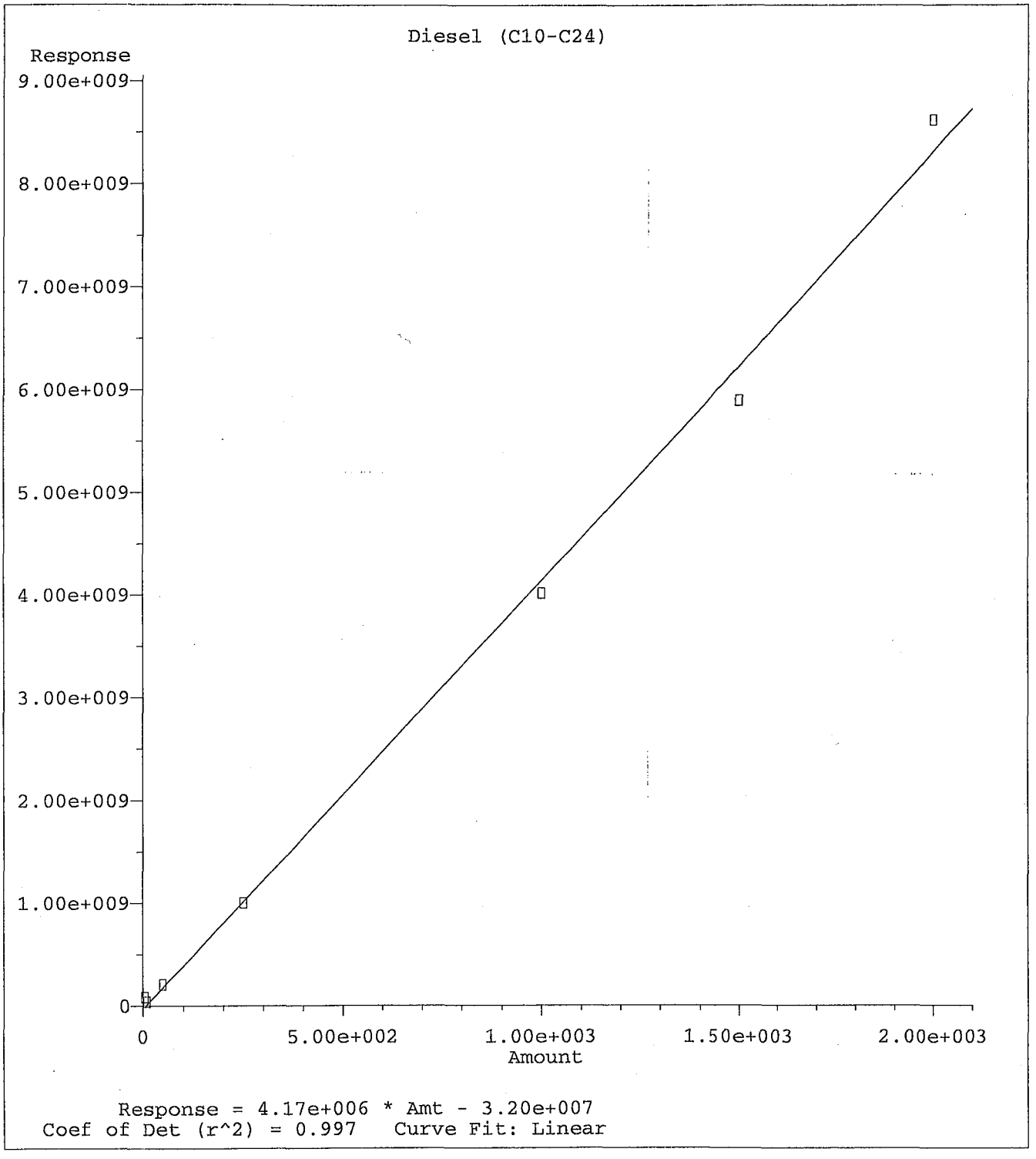
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.65	4209010	0.840 ppb
Surrogate Spike 30.000	Recovery =		2.80%
4) SA Octacosane(S)	10.02	207793	0.057 ppb
Surrogate Spike 30.000	Recovery =		0.19%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	913639690	226.836 ppb
2) HBTM Motor Oil (C24-C40)	15.67	643874690	252.551 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.
1212013.D DOC1212.M Mon Dec 13 07:45:24 2021 Page 1

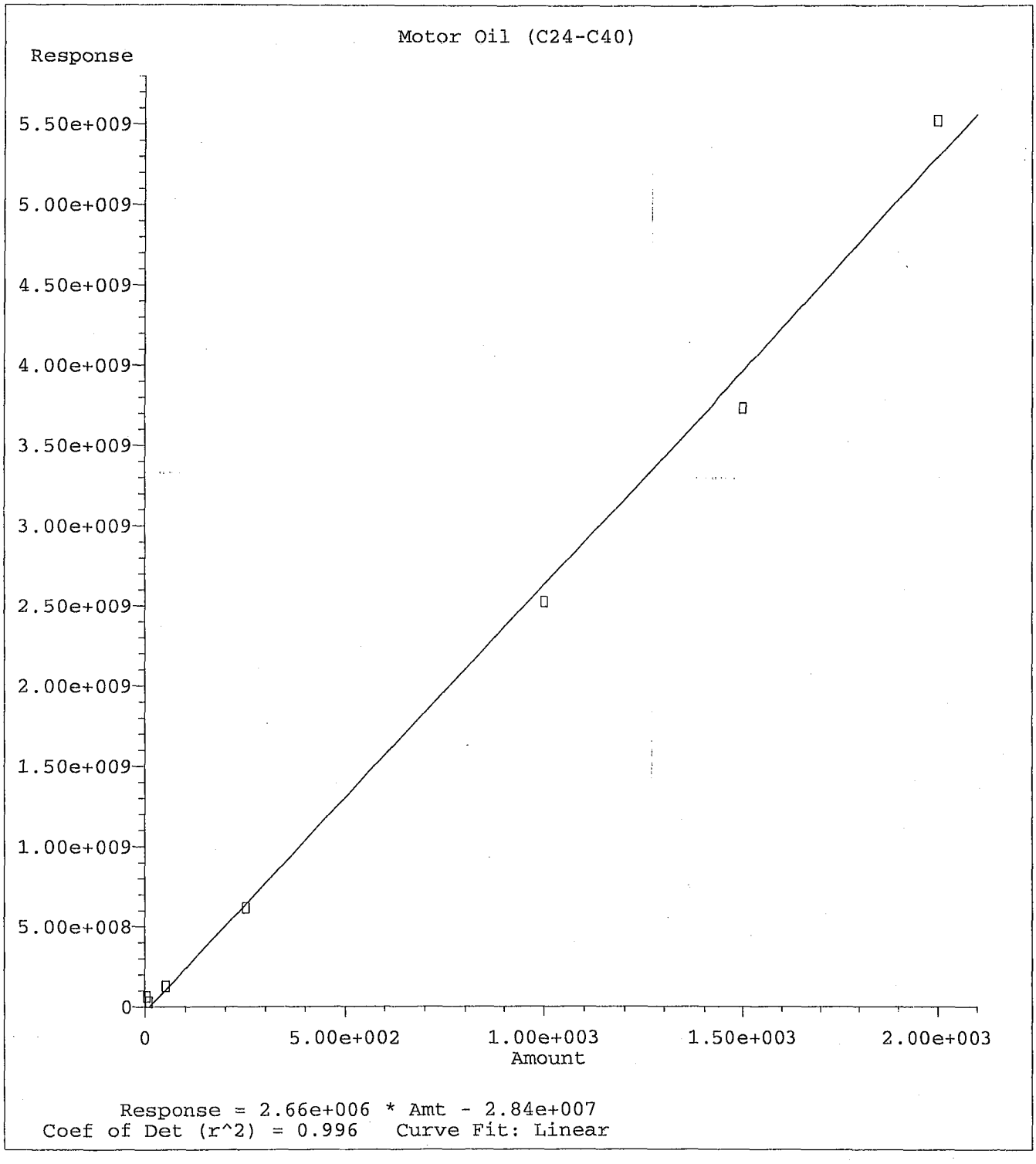
Data File: G:\APOLLO\DATA\211212\1212013.D
Sample : DMO Second Source 10/28/21







Method Name: G:\APOLLO\DATA\211212\DOC1212.M
Calibration Table Last Updated: Mon Dec 13 05:52:11 2021



Method Name: G:\APOLLO\DATA\211212\DOC1212.M
Calibration Table Last Updated: Mon Dec 13 05:52:11 2021

TPH Extractables
DEC0911

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 9/11/2021
Matrix: Water Instrument: Apollo
Initials: KA

		Compound	1	2	3	4	5	6					Avg	%RSD	Type	r^2	Q
			911002.D	911003.D	911004.D	911005.D	911006.D	911007.D									
1	SC	Decanoic Acid(S)	883995	1084261	1313446	1384667	1522107	1509937					1283069	20	SC		*
2																	
3																	
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0.562142

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\210911\911002.D Vial: 2
Acq On : 9-11-21 10:22:53 Operator: KA
Sample : Decanoic Acid STD 1 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 13 9:30 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 13 09:30:16 2021
Response via : Multiple Level Calibration

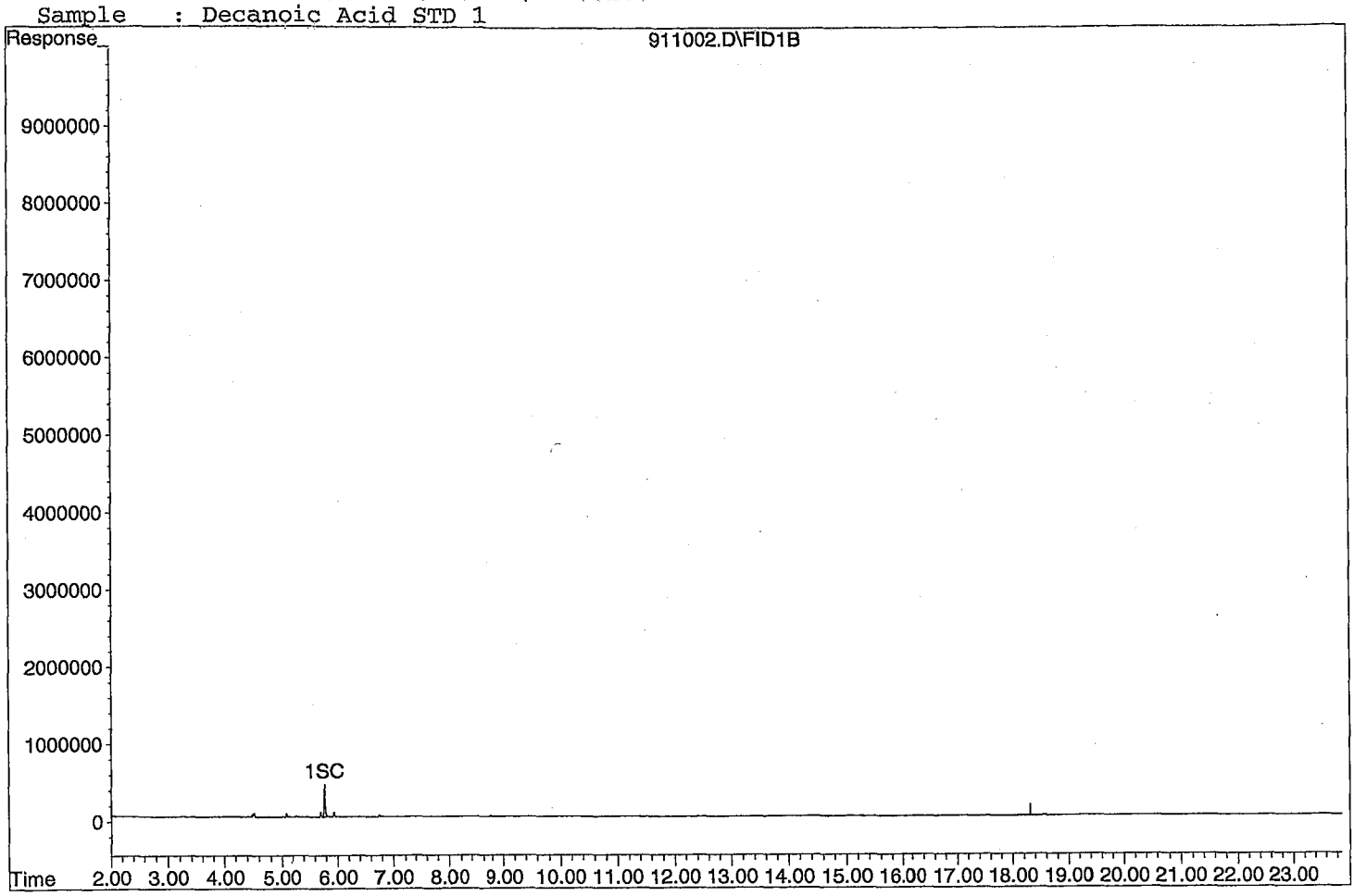
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.77	5303968	2.067 ppb
Surrogate Spike 24.000	Recovery	=	8.61%
Target Compounds			
Target Compounds			

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

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911002.D
Sample : Decanoic Acid STD 1



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\210911\911003.D Vial: 3
Acq On : 9-11-21 10:51:11 Operator: KA
Sample : Decanoic Acid STD 2 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 23 17:12 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 13 09:30:16 2021
Response via : Multiple Level Calibration

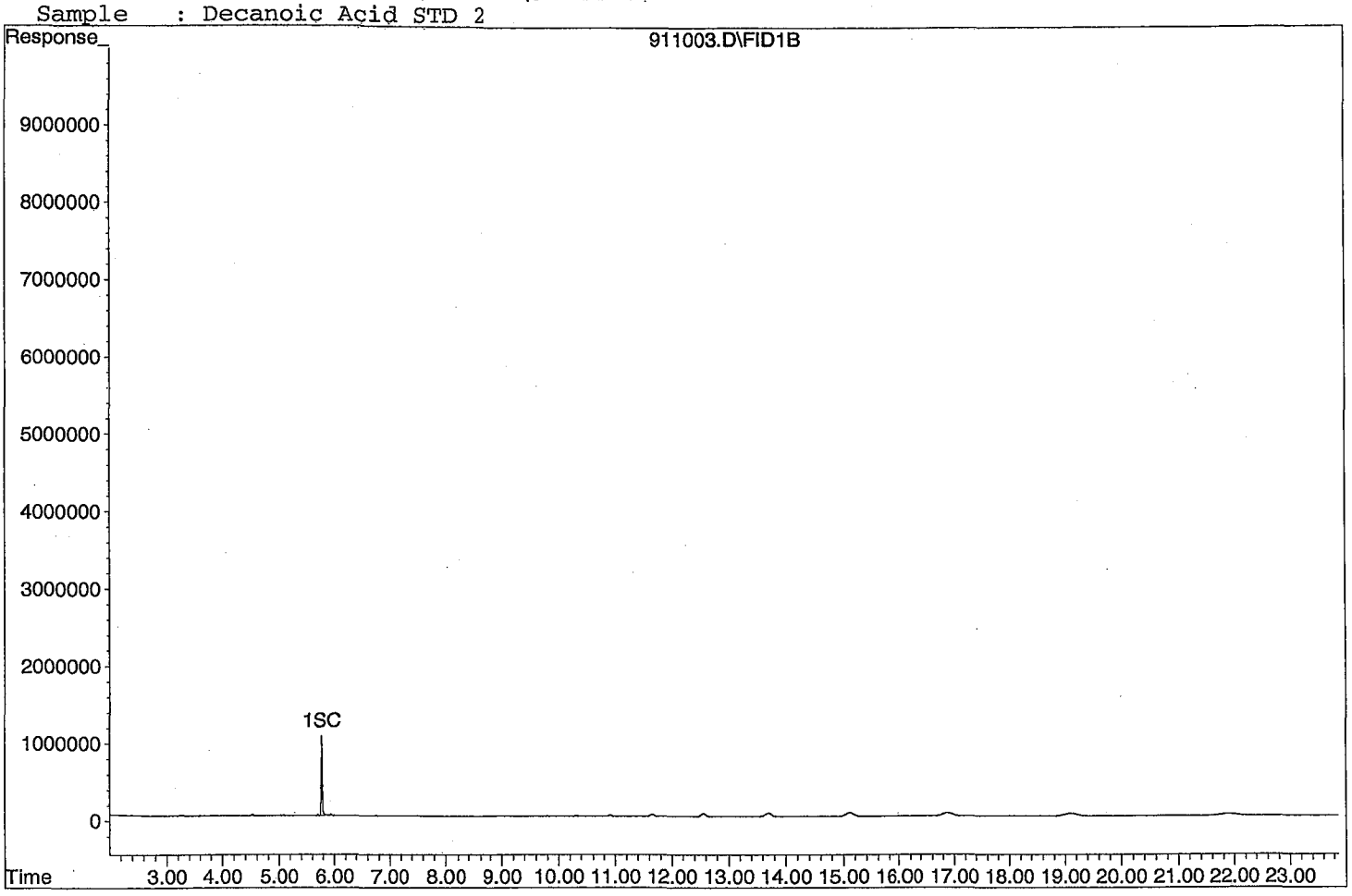
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.77	13011132	5.070 ppb
Surrogate Spike 24.000	Recovery =		21.13%
Target Compounds			
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.
911003.D DEC0911.M Thu Sep 23 17:12:51 2021

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911003.D
Sample : Decanoic Acid STD 2



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\210911\911004.D Vial: 4
Acq On : 9-11-21 11:19:39 Operator: KA
Sample : Decanoic Acid STD 3 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 23 17:12 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 13 09:30:16 2021
Response via : Multiple Level Calibration

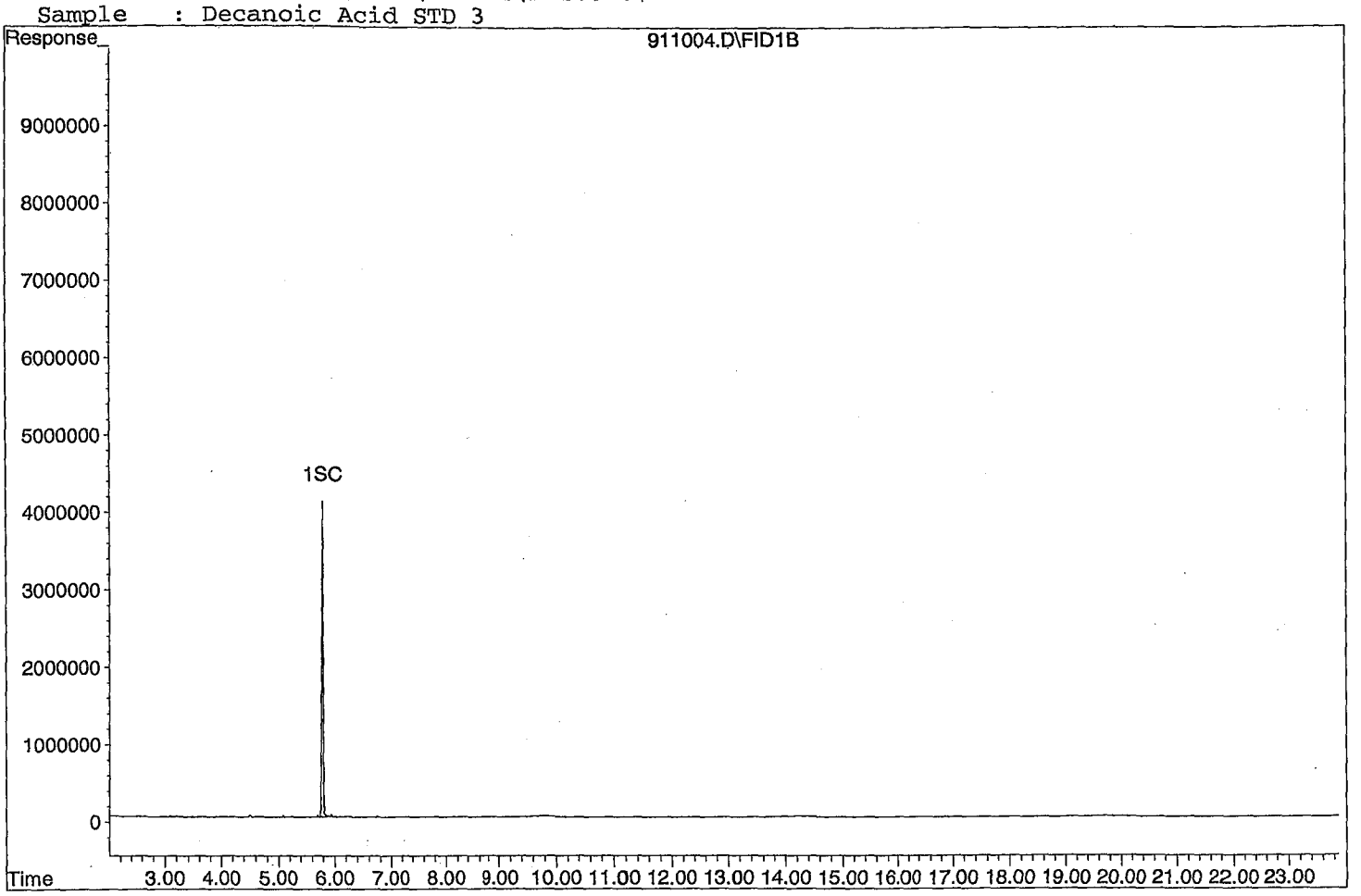
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1) SC Decanoic Acid(S)	5.79	63045408	24.568	ppb
Surrogate Spike 24.000	Recovery	=	102.37%	
Target Compounds				
Target Compounds				

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

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911004.D
Sample : Decanoic Acid STD 3



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\210911\911005.D Vial: 5
Acq On : 9-11-21 11:48:04 Operator: KA
Sample : Decanoic Acid STD 4 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 23 17:12 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 13 09:30:16 2021
Response via : Multiple Level Calibration

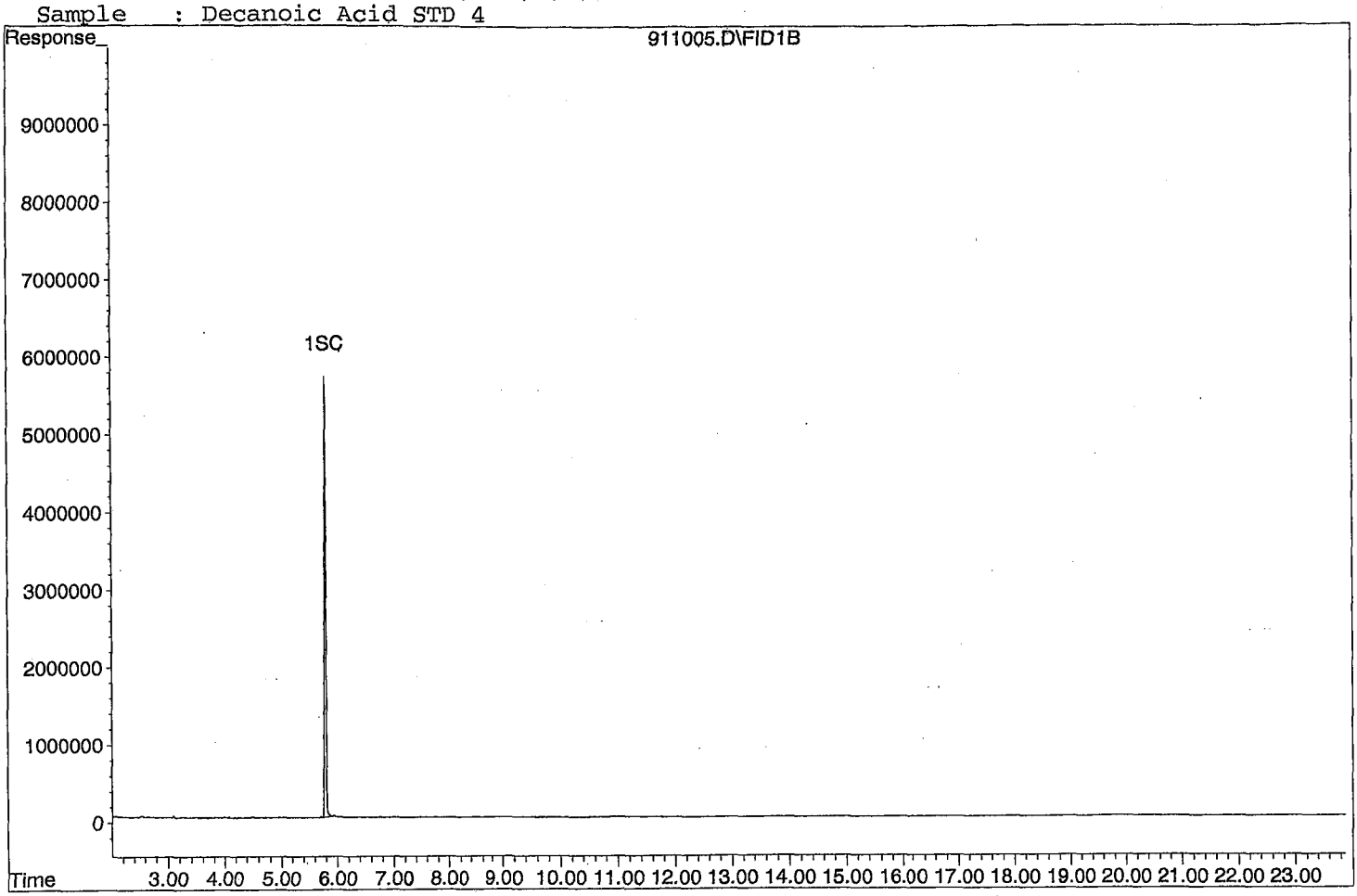
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.80	99696015	38.851 ppb
Surrogate Spike 24.000	Recovery =		161.88%
Target Compounds			
Target Compounds			

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

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911005.D
Sample : Decanoic Acid STD 4



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\210911\911006.D Vial: 6
Acq On : 9-11-21 12:16:37 Operator: KA
Sample : Decanoic Acid STD 5 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 23 17:12 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 13 09:30:16 2021
Response via : Multiple Level Calibration

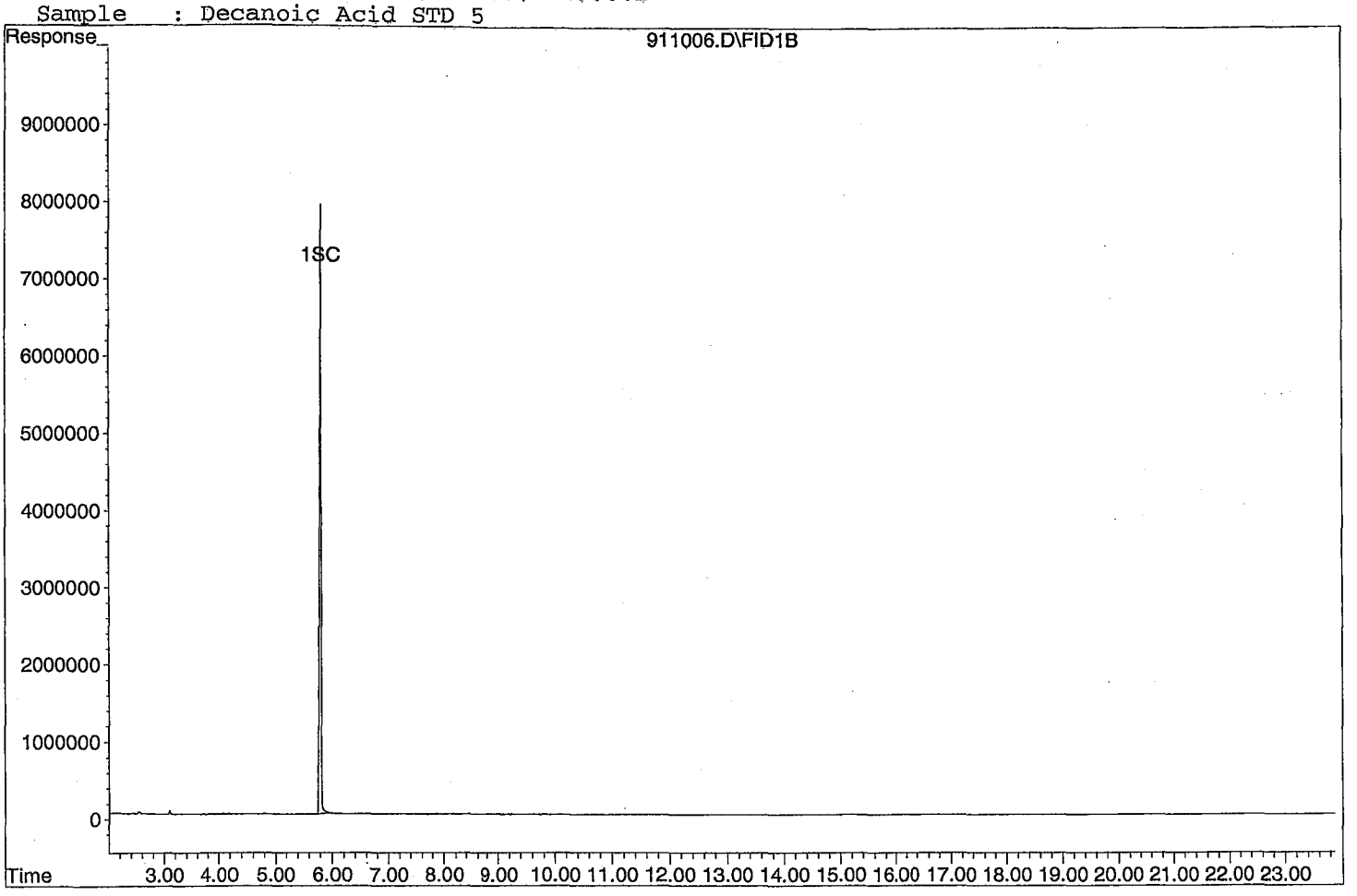
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.81	146122260	56.942 ppb
Surrogate Spike 24.000		Recovery =	237.26%
Target Compounds			

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911006.D
Sample : Decanoic Acid STD 5



Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\210911\911007.D Vial: 7
Acq On : 9-11-21 12:45:02 Operator: KA
Sample : Decanoic Acid STD 6 Inst : Apollo
Misc : water Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 23 17:12 2021 Quant Results File: DEC0911.RES

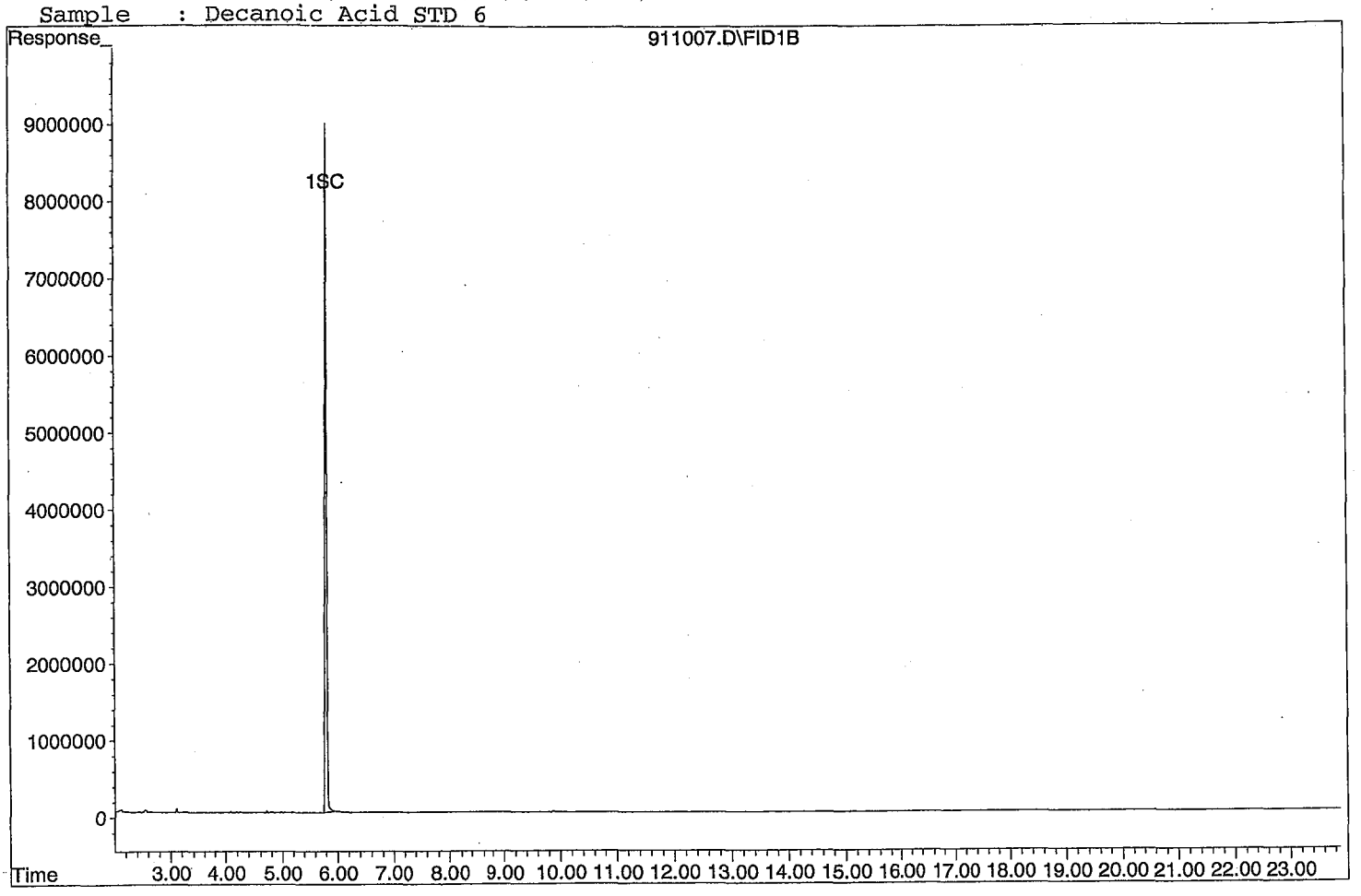
Method : G:\APOLLO\DATA\210808\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Sep 13 09:30:16 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.81	181192435	70.609 ppb
Surrogate Spike 24.000		Recovery =	294.20%
Target Compounds			
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\210911\911007.D
Sample : Decanoic Acid STD 6



TPH Extractables
DOC1212

Form 7
Continuing Calibration

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

SDG No:
Date Analyzed: 12/13/2021
Instrument: Apollo
Initial Cal. Date: 12/12/2021
Data File: 1213003.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2932900	2108140	28	HATML	1.9
2	HBTM	Motor Oil (C24-C40)	2024600	1375470	32	HBTML	4.4
3	SA	Ortho-Terphenyl(S)	2506260	2658840	6.1	SA	
4	SA	Octacosane(S)	1810340	1882990	4.0	SA	
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		Average			17.5		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211213\1213003.D Vial: 3
Acq On : 12-13-21 14:20:32 Operator: KA
Sample : DMO STD DF2 12/09/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 14 8:53 2021 Quant Results File: DOC1212.RES

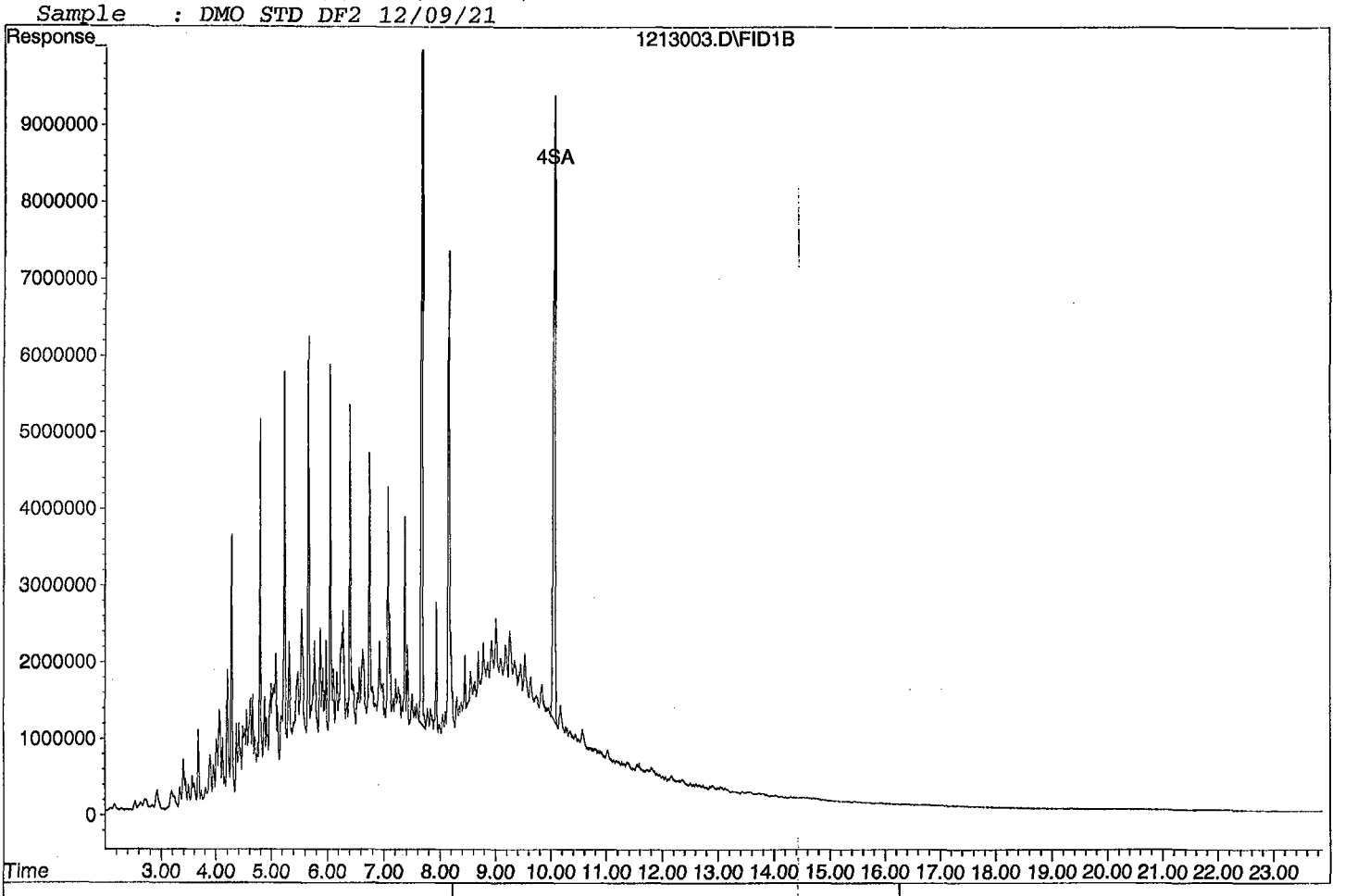
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

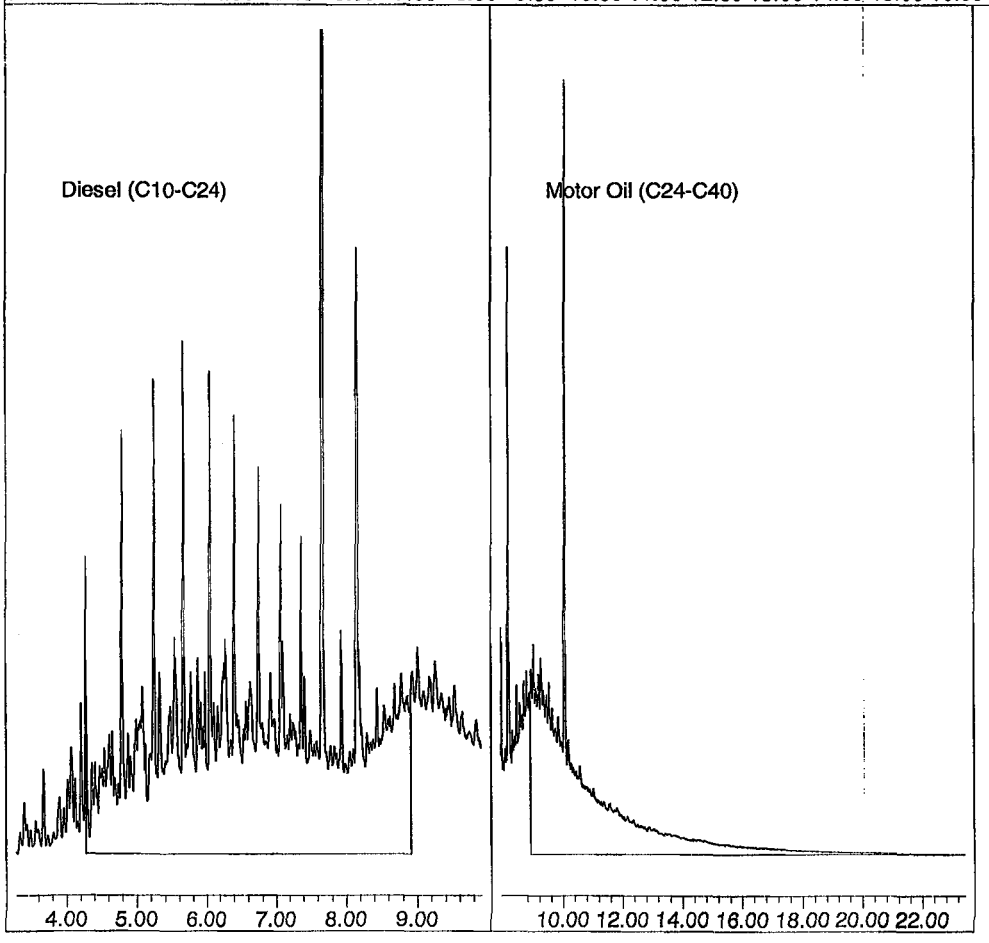
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	265884485	53.044 ppb
Surrogate Spike 30.000		Recovery =	176.81%
4) SA Octacosane(S)	10.06	188299445	52.007 ppb
Surrogate Spike 30.000		Recovery =	173.36%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	4216279797	1019.059 ppb
2) HBTM Motor Oil (C24-C40)	15.67	2750940881	1044.104 ppb

Target Compounds

Data File: G:\APOLLO\DATA\211213\1213003.D
Sample : DMO STD DF2 12/09/21





TPH Extractables
DEC0911

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 12/13/2021
Instrument: Apollo
Initial Cal. Date: 9/11/2021
Data File: 1213004.D

		Compound	MEAN	CCRF	%D	%Drift	
1	SC	Decanoic Acid(S)	1283070	1159230	9.7	SC	
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		Average			9.7		

Quantitation Report (Not Reviewed)

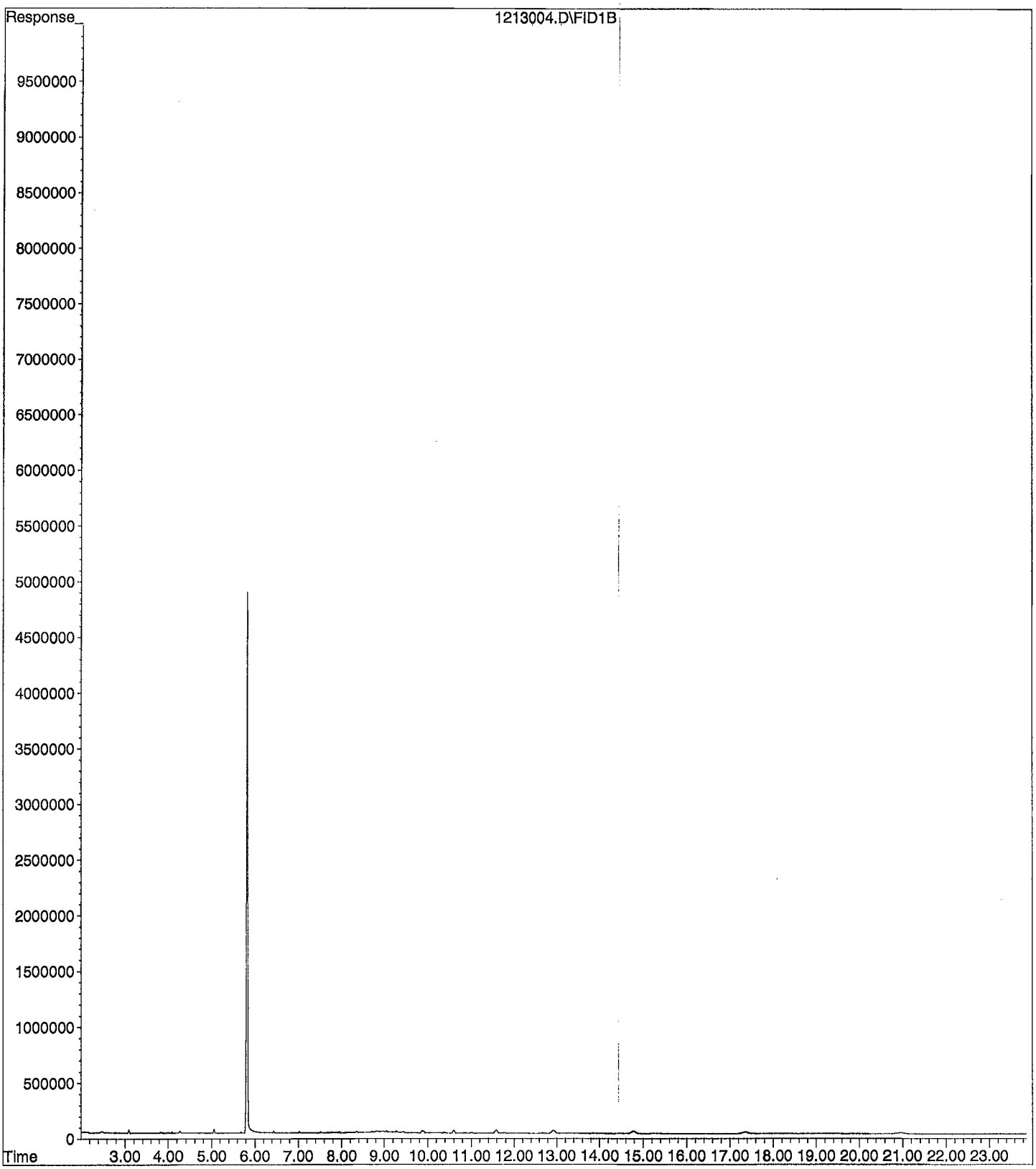
Data File : G:\APOLLO\DATA\211213\1213004.D Vial: 4
Acq On : 12-13-21 14:48:36 Operator: KA
Sample : Decanoic Acid CCV 11/05/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 14 8:56 2021 Quant Results File: DEC0911.RES

Method : G:\APOLLO\DATA\211213\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:56:14 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.83	83464838	32.525 ppb
Surrogate Spike 24.000		Recovery =	135.52%
Target Compounds			
Target Compounds			

File : G:\APOLLO\DATA\211213\1213004.D
Operator : KA
Acquired : 12-13-21 14:48:36 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid CCV 11/05/21
Misc Info : Water
Vial Number: 4



TPH Extractables
DOC1212

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 12/14/2021
Instrument: Apollo
Initial Cal. Date: 12/12/2021
Data File: 1213020.D

		Compound	MEAN	CCRF	%D	%Drift	
1	HATM	Diesel (C10-C24)	2932900	2192730	25	HATML	6.0
2	HBTM	Motor Oil (C24-C40)	2024600	1420780	30	HBTML	7.8
3	SA	Ortho-Terphenyl(S)	2506260	2701330	7.8	SA	
4	SA	Octacosane(S)	1810340	1987430	9.8	SA	
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		Average			18.2		

Quantitation Report (Not Reviewed)

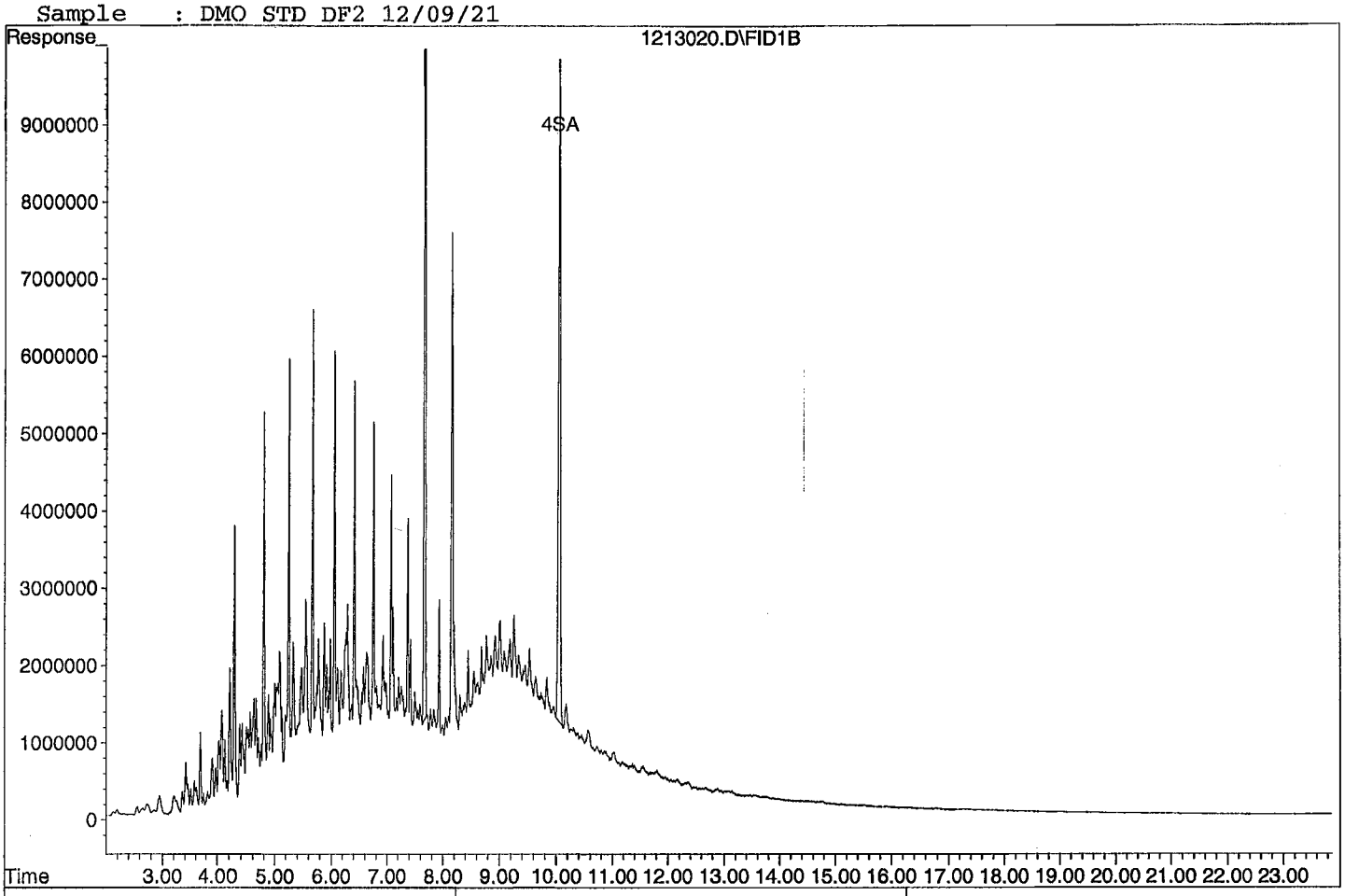
Data File : G:\APOLLO\DATA\211213\1213020.D Vial: 20
Acq On : 12-14-21 9:40:09 Operator: KA
Sample : DMO STD DF2 12/09/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 14 10:16 2021 Quant Results File: DOC1212.RES

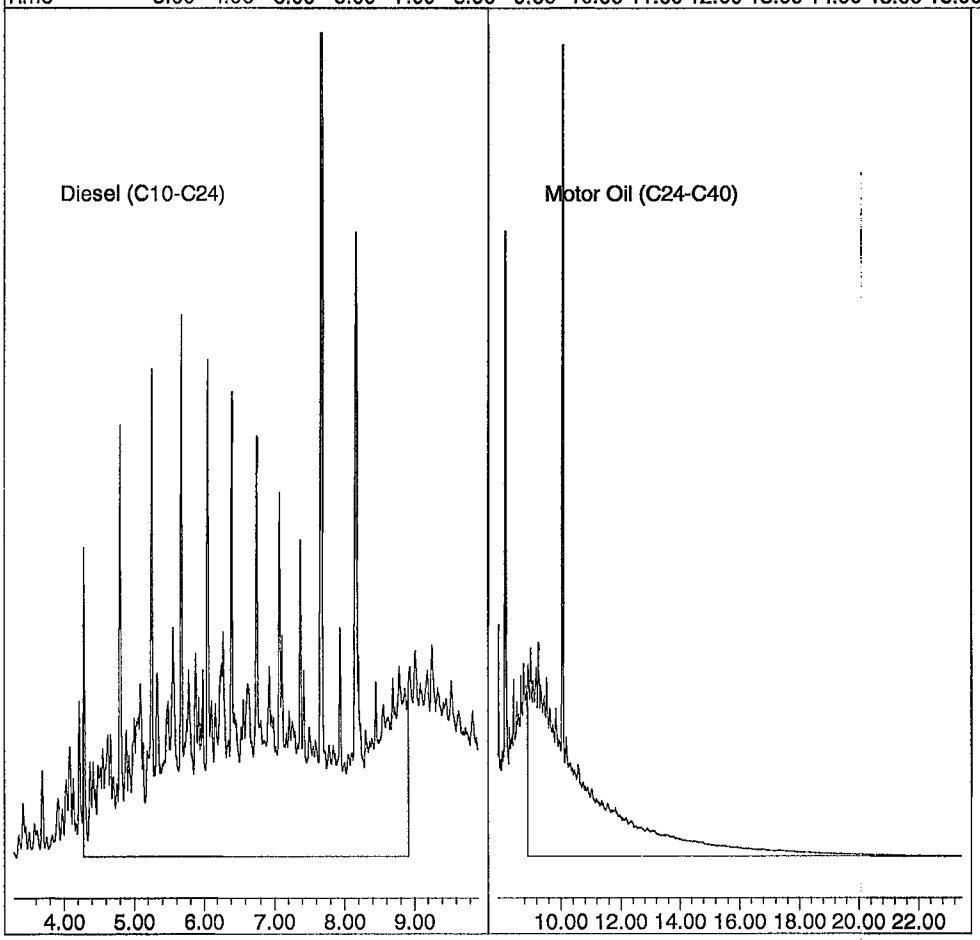
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	270133475	53.892 ppb
Surrogate Spike 30.000		Recovery =	179.64%
4) SA Octacosane(S)	10.06	198742739	54.891 ppb
Surrogate Spike 30.000		Recovery =	182.97%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	4385455692	1059.640 ppb
2) HBTM Motor Oil (C24-C40)	15.67	2841566273	1078.149 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211213\1213020.D
Sample : DMO STD DF2 12/09/21





TPH Extractables
DEC0911

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 12/14/2021
Instrument: Apollo
Initial Cal. Date: 9/11/2021
Data File: 1213021.D

		Compound	MEAN	CCRF	%D	%Drift	
1	SC	Decanoic Acid(S)	1283070	1342510	4.6	SC	
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		Average			4.6		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211213\1213021.D Vial: 21
Acq On : 12-14-21 10:08:25 Operator: KA
Sample : Decanoic Acid CCV 11/05/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 14 10:42 2021 Quant Results File: DEC0911.RES

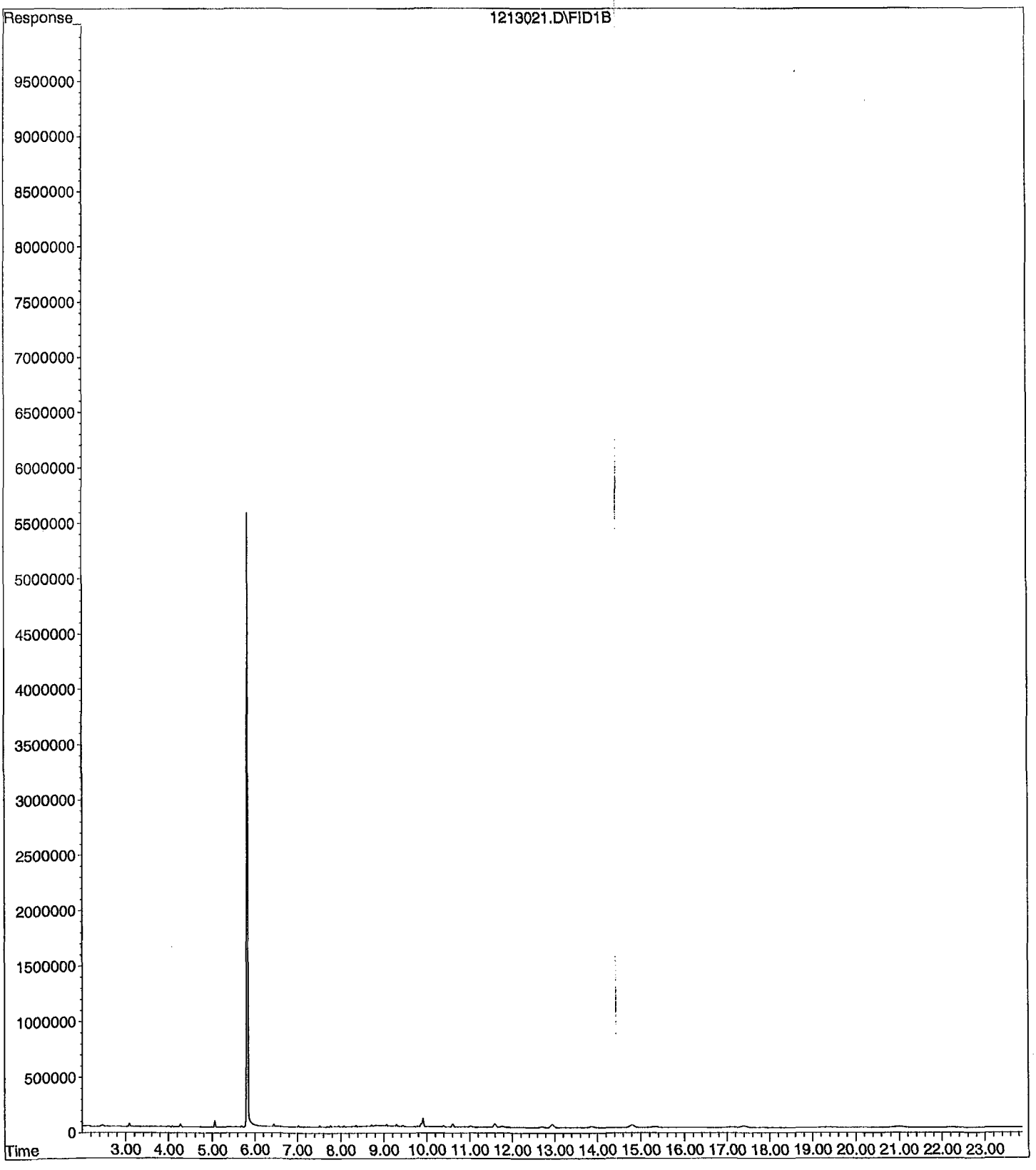
Method : G:\APOLLO\DATA\211213\DEC0911.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:56:14 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) SC Decanoic Acid(S)	5.84	96660442	37.668 ppb
Surrogate Spike 24.000		Recovery =	156.95%
Target Compounds			

Target Compounds

File : G:\APOLLO\DATA\211213\1213021.D
Operator : KA
Acquired : 12-14-21 10:08:25 using AcqMethod TPHSN.M
Instrument : Apollo
Sample Name: Decanoic Acid CCV 11/05/21
Misc Info : Water
Vial Number: 21



ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211213\1213011.D Vial: 11
Acq On : 12-13-21 18:06:03 Operator: KA
Sample : BA47128W09 5/1050 SG Inst : Apollo
Misc : Water Multiplr: 4.76
IntFile : events.e
Quant Time: Dec 14 9:41 2021 Quant Results File: DOC1212.RES

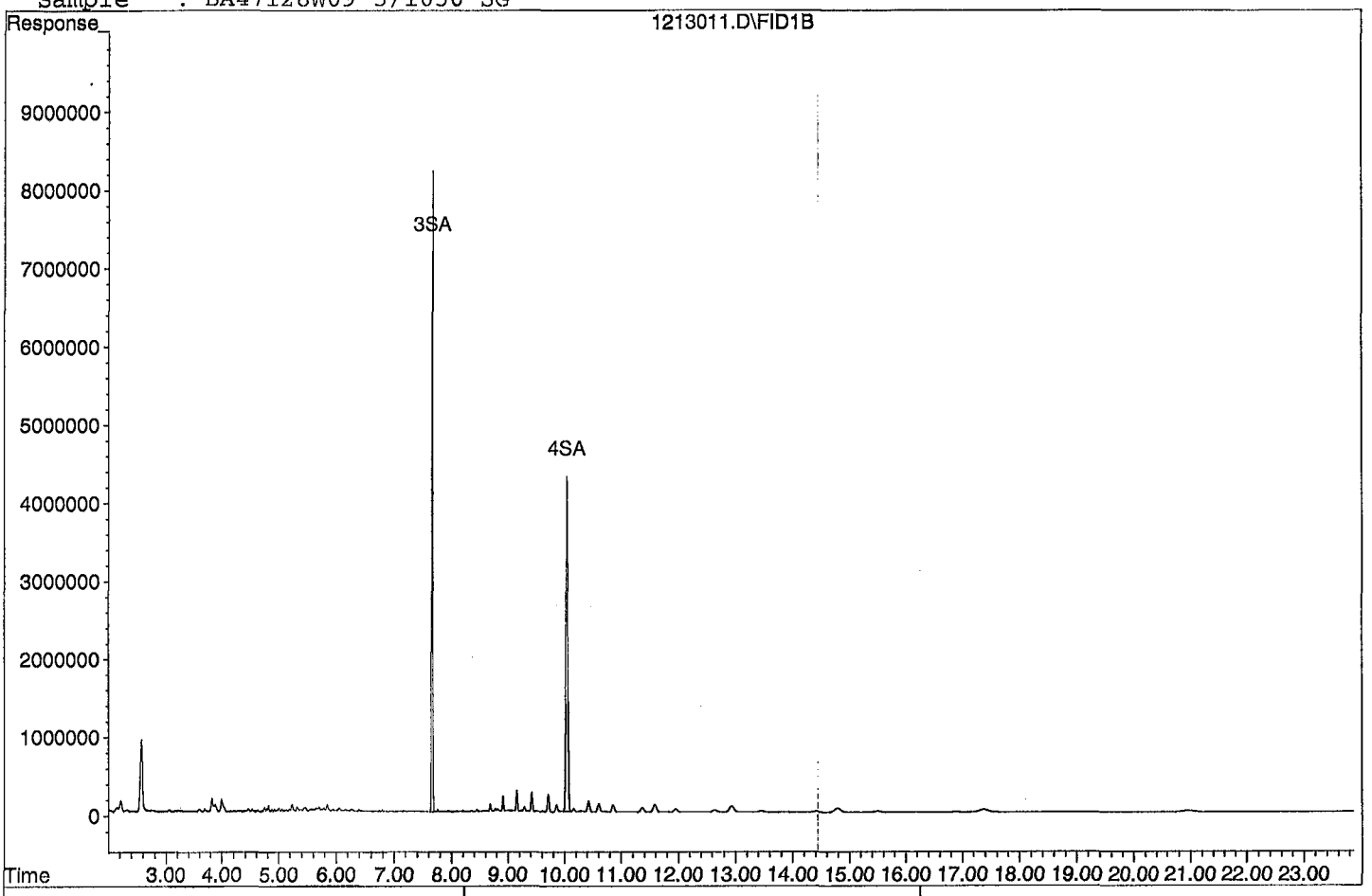
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

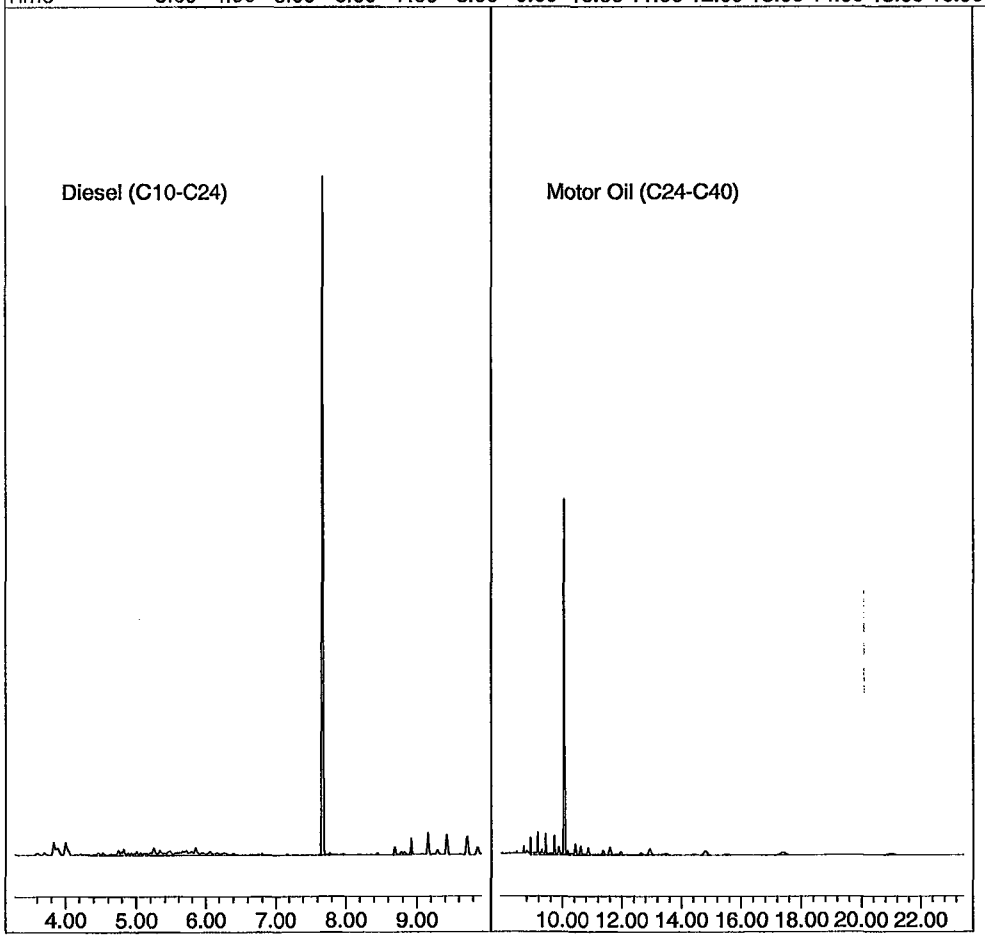
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	102306880	97.192 ppb
Surrogate Spike 142.857		Recovery =	68.03%
4) SA Octacosane(S)	10.05	94803514	124.685 ppb
Surrogate Spike 142.857		Recovery =	87.28%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	49741489	93.373 ppb
2) HBTM Motor Oil (C24-C40)	15.67	87773222	207.824 ppb

Target Compounds

Data File: G:\APOLLO\DATA\211213\1213011.D
Sample : BA47128W09 5/1050 SG





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211213\1213012.D Vial: 12
Acq On : 12-13-21 18:34:18 Operator: KA
Sample : BA47132W09 5/1030 SG Inst : Apollo
Misc : Water Multiplr: 4.85
IntFile : events.e
Quant Time: Dec 14 9:41 2021 Quant Results File: DOC1212.RES

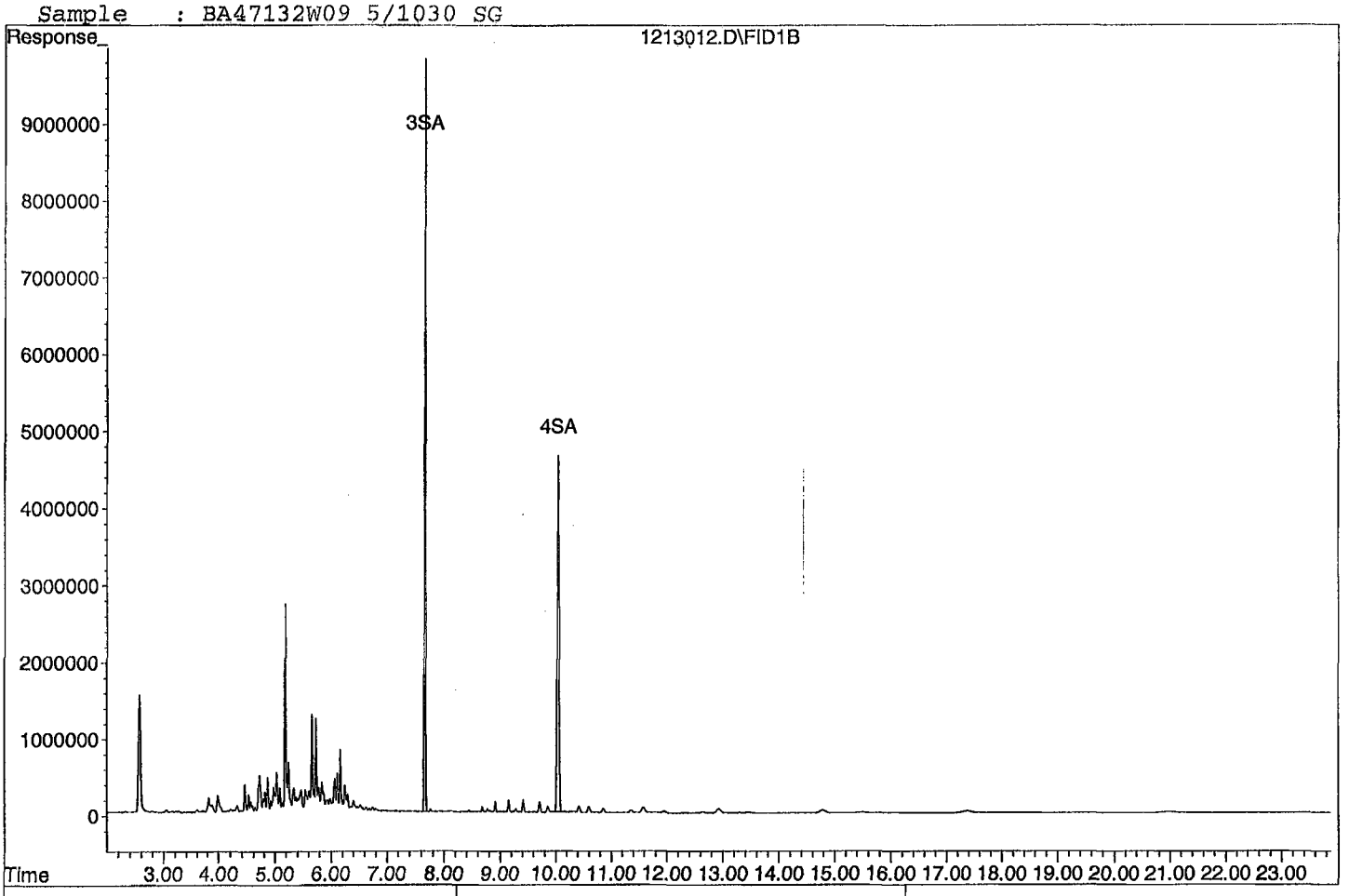
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

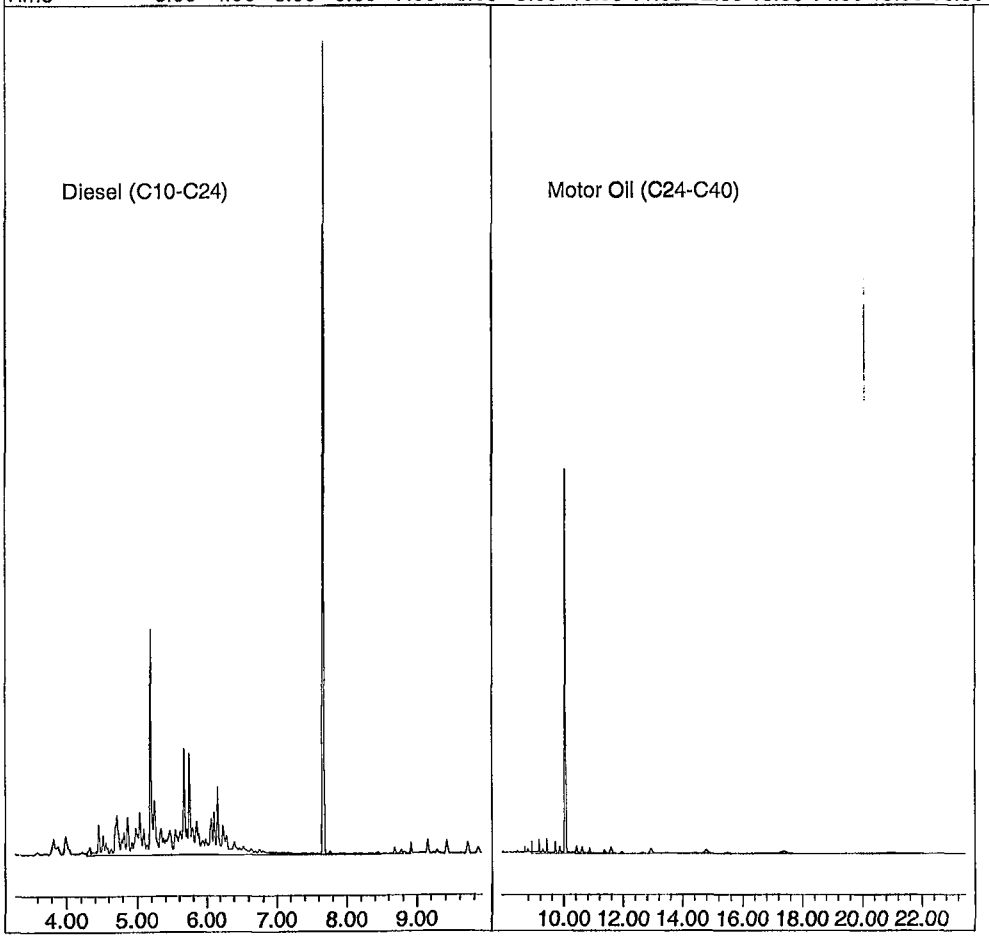
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	119716885	115.940 ppb
Surrogate Spike 145.631		Recovery =	79.61%
4) SA Octacosane(S)	10.05	107745269	144.458 ppb
Surrogate Spike 145.631		Recovery =	99.19%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	333659340	425.793 ppb
2) HBTM Motor Oil (C24-C40)	15.67	61444226	163.845 ppb
Target Compounds			

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

Data File: G:\APOLLO\DATA\211213\1213012.D
Sample : BA47132W09 5/1030 SG





Quantitation Report (QT Reviewed)

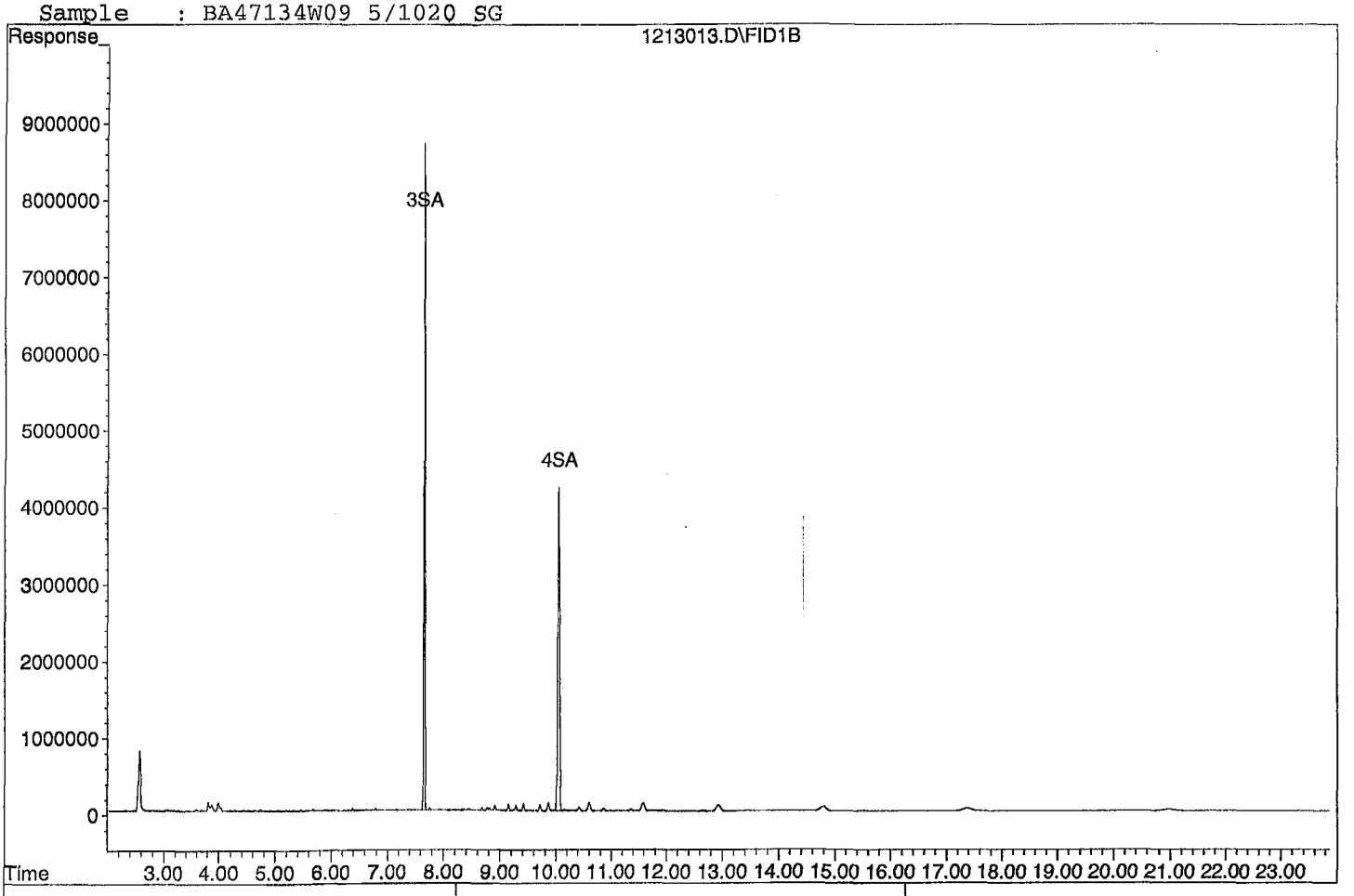
Data File : G:\APOLLO\DATA\211213\1213013.D Vial: 13
Acq On : 12-13-21 19:02:30 Operator: KA
Sample : BA47134W09 5/1020 SG Inst : Apollo
Misc : Water Multiplr: 4.90
IntFile : events.e
Quant Time: Dec 14 9:42 2021 Quant Results File: DOC1212.RES

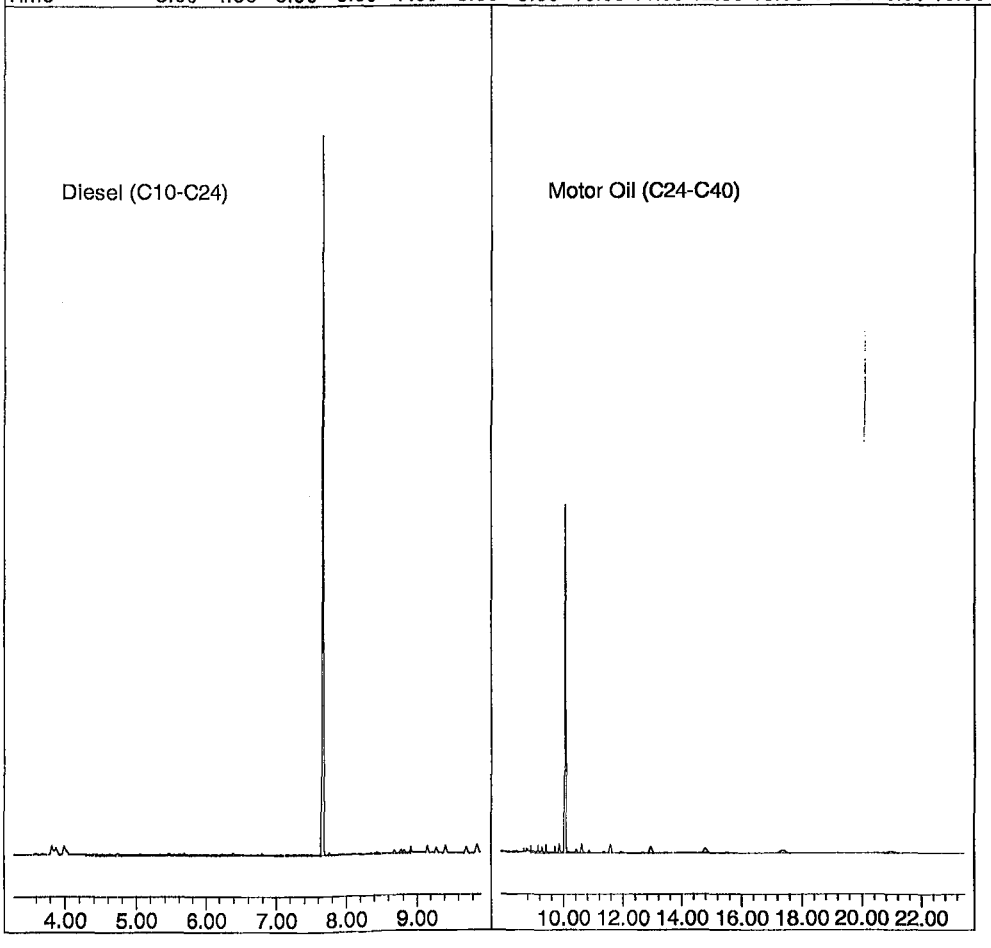
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	107771094	105.394 ppb
Surrogate Spike 147.059		Recovery =	71.67%
4) SA Octacosane(S)	10.05	97462032	131.952 ppb
Surrogate Spike 147.059		Recovery =	89.73%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	35636118	79.534 ppb
2) HBTM Motor Oil (C24-C40)	15.67	58552684	160.127 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211213\1213013.D
Sample : BA47134W09 5/1020 SG





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211213\1213008.D Vial: 8
Acq On : 12-13-21 16:41:28 Operator: KA
Sample : 211207A BLK 5/1000 SG Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 14 9:26 2021 Quant Results File: DOC1212.RES

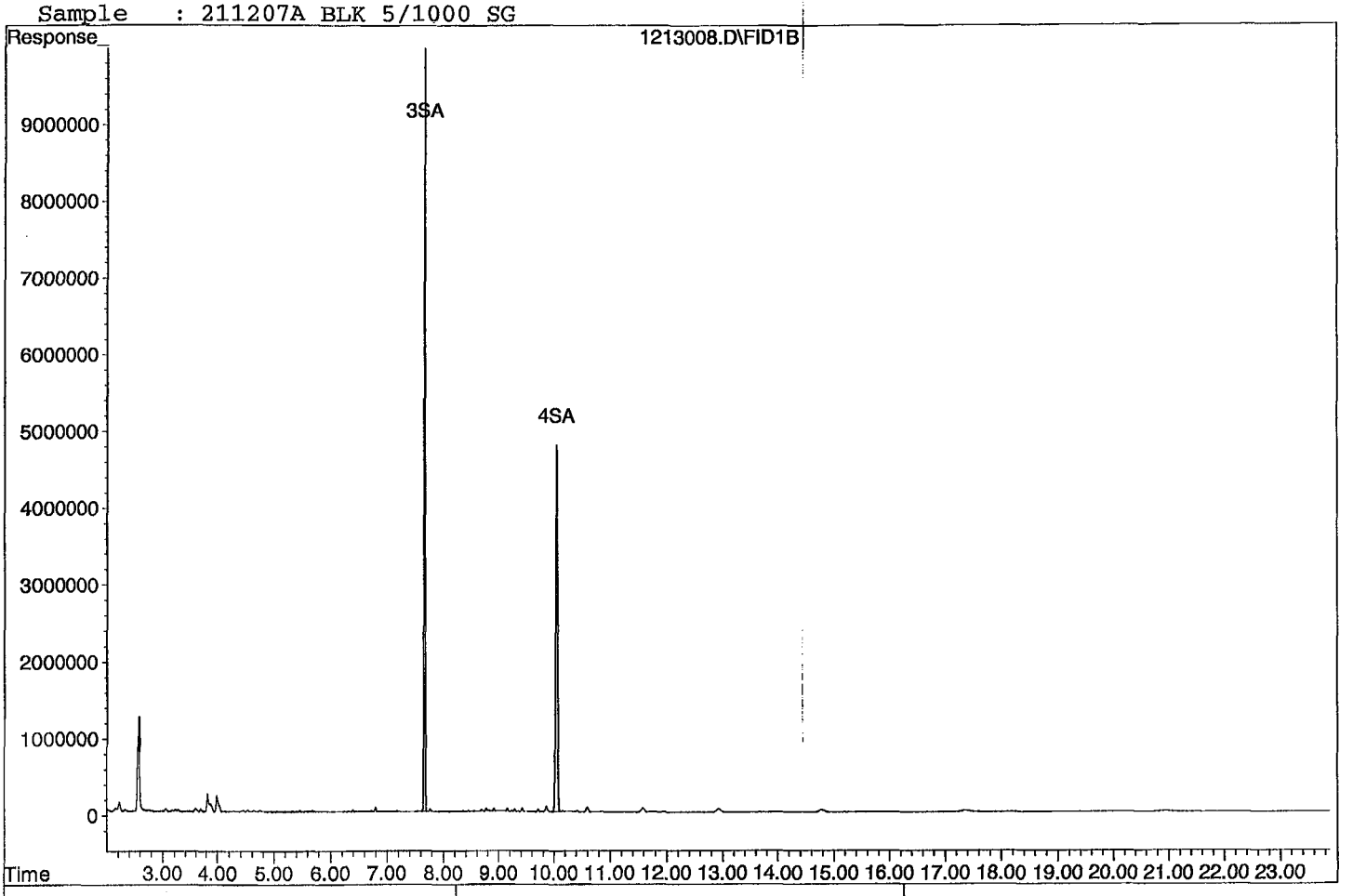
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

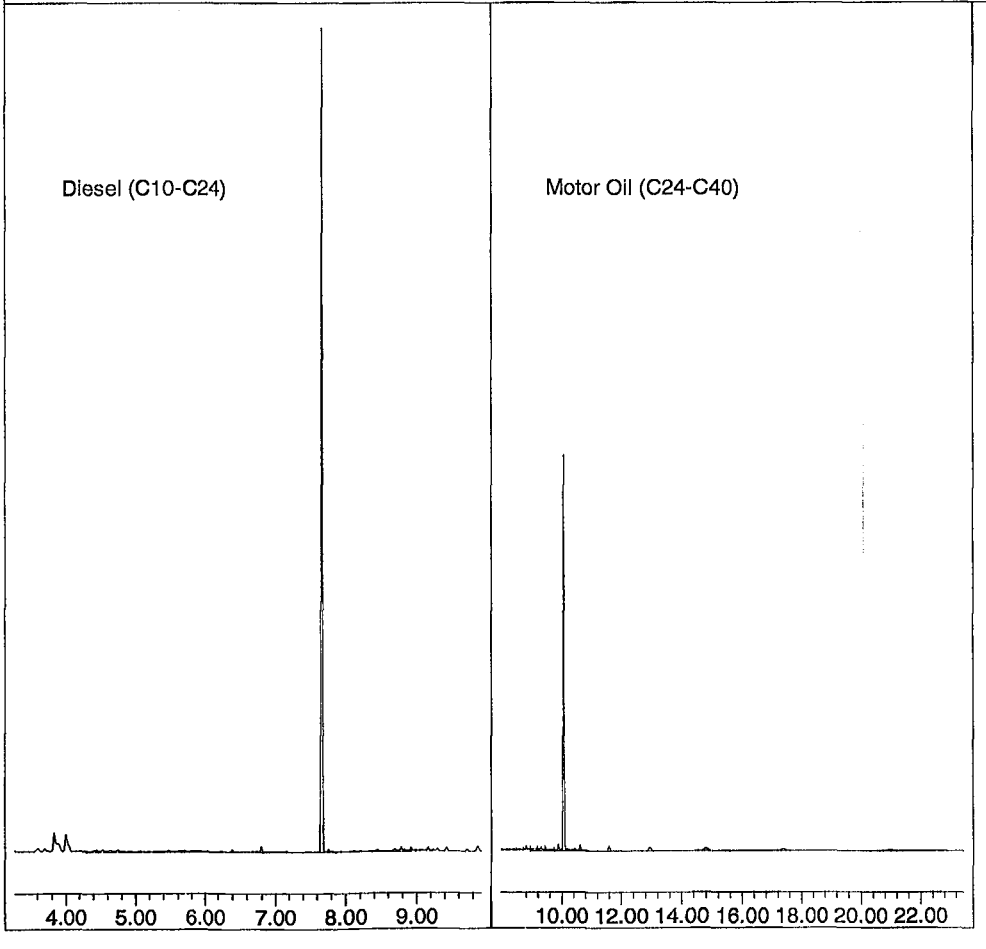
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	122105533	121.800 ppb
Surrogate Spike 150.000		Recovery =	81.20%
4) SA Octacosane(S)	10.04	110059470	151.987 ppb
Surrogate Spike 150.000		Recovery =	101.32%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	32190272	76.991 ppb
2) HBTM Motor Oil (C24-C40)	15.67	42635758	133.432 ppb
Target Compounds			

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

Data File: G:\APOLLO\DATA\211213\1213008.D
Sample : 211207A BLK 5/1000 SG





Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211213\1213009.D Vial: 9
Acq On : 12-13-21 17:09:41 Operator: KA
Sample : 211207A LCS-1 5/1000 SG Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 14 9:39 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

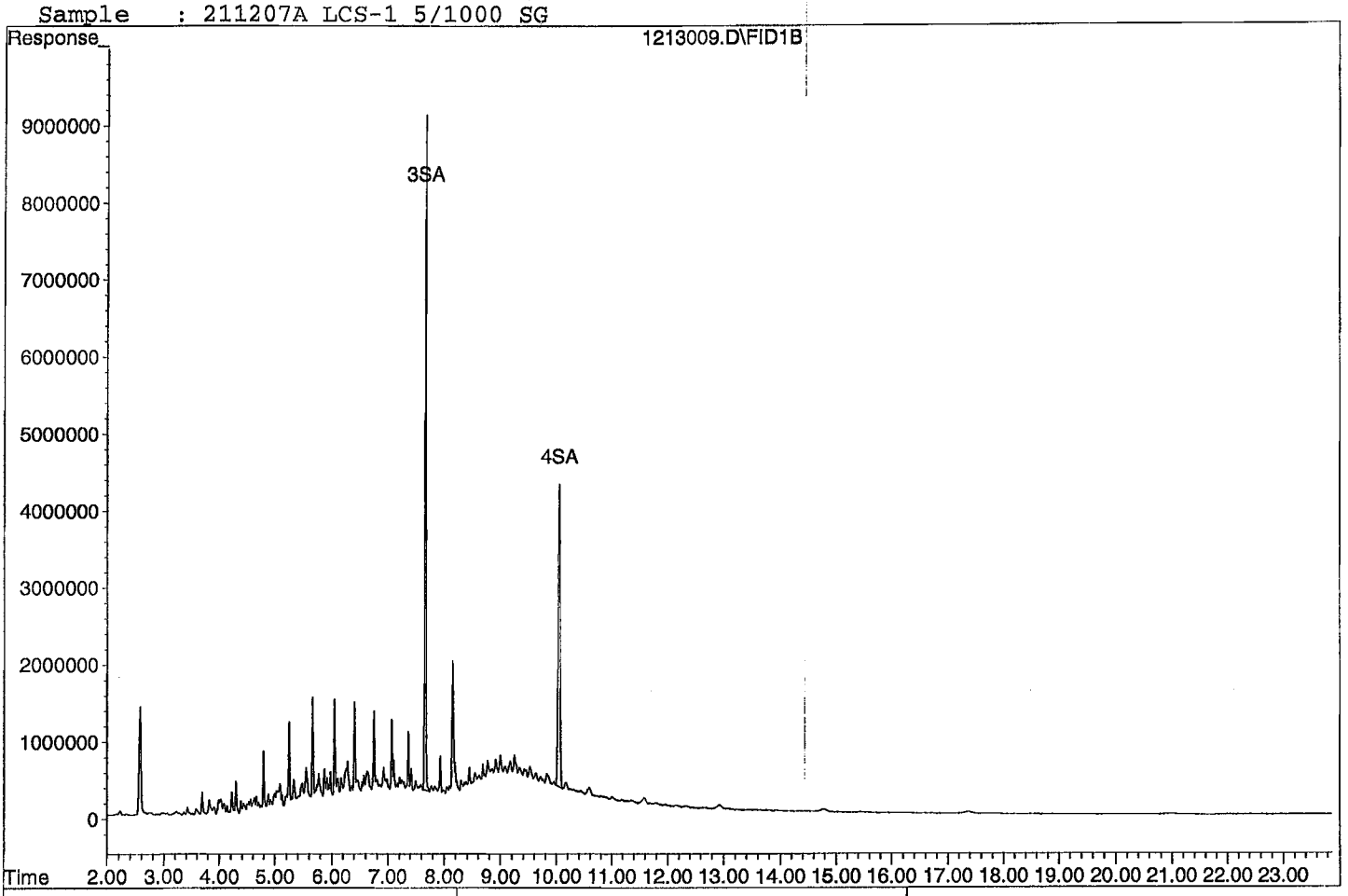
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

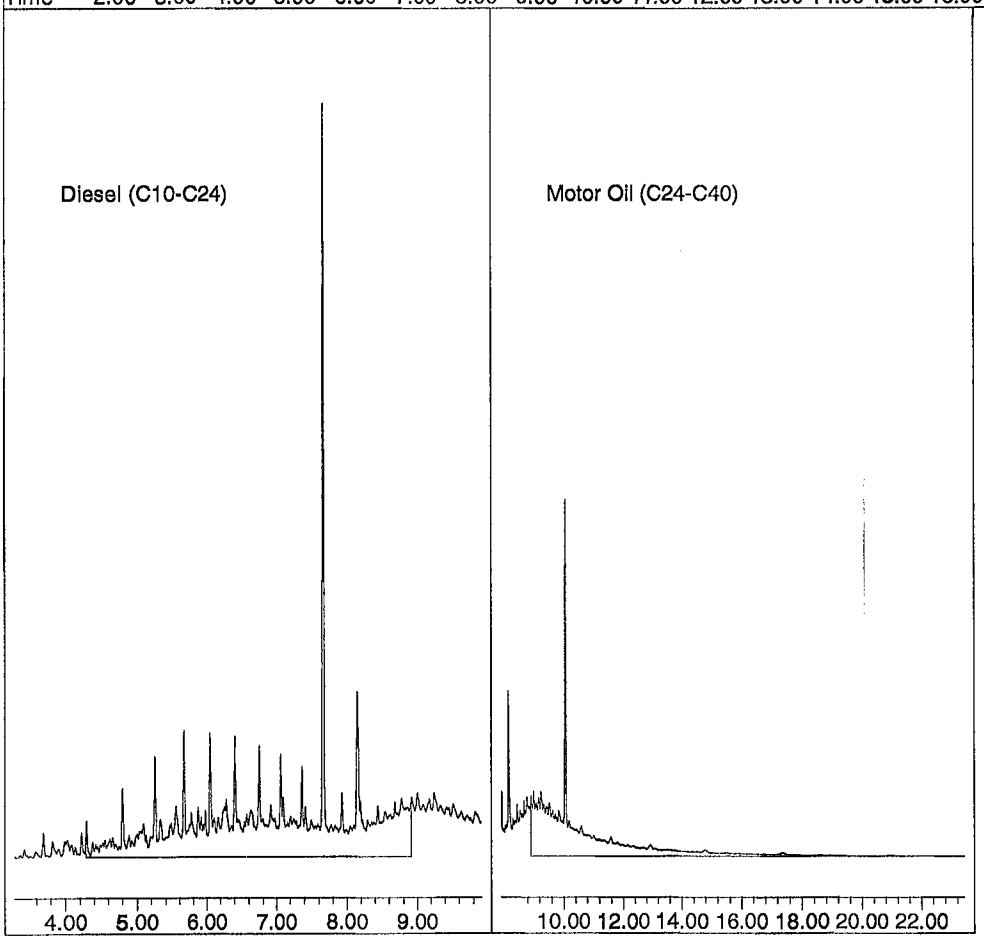
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	116200793	115.910 ppb
Surrogate Spike 150.000		Recovery =	77.27%
4) SA Octacosane(S)	10.05	91777137	126.740 ppb
Surrogate Spike 150.000		Recovery =	84.49%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	1104804164	1363.461 ppb
2) HBTM Motor Oil (C24-C40)	15.67	866662558	1681.226 ppb
Target Compounds			

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

Quantitation Report

Data File: G:\APOLLO\DATA\211213\1213009.D
Sample : 211207A LCS-1 5/1000 SG





Quantitation Report (QT Reviewed)

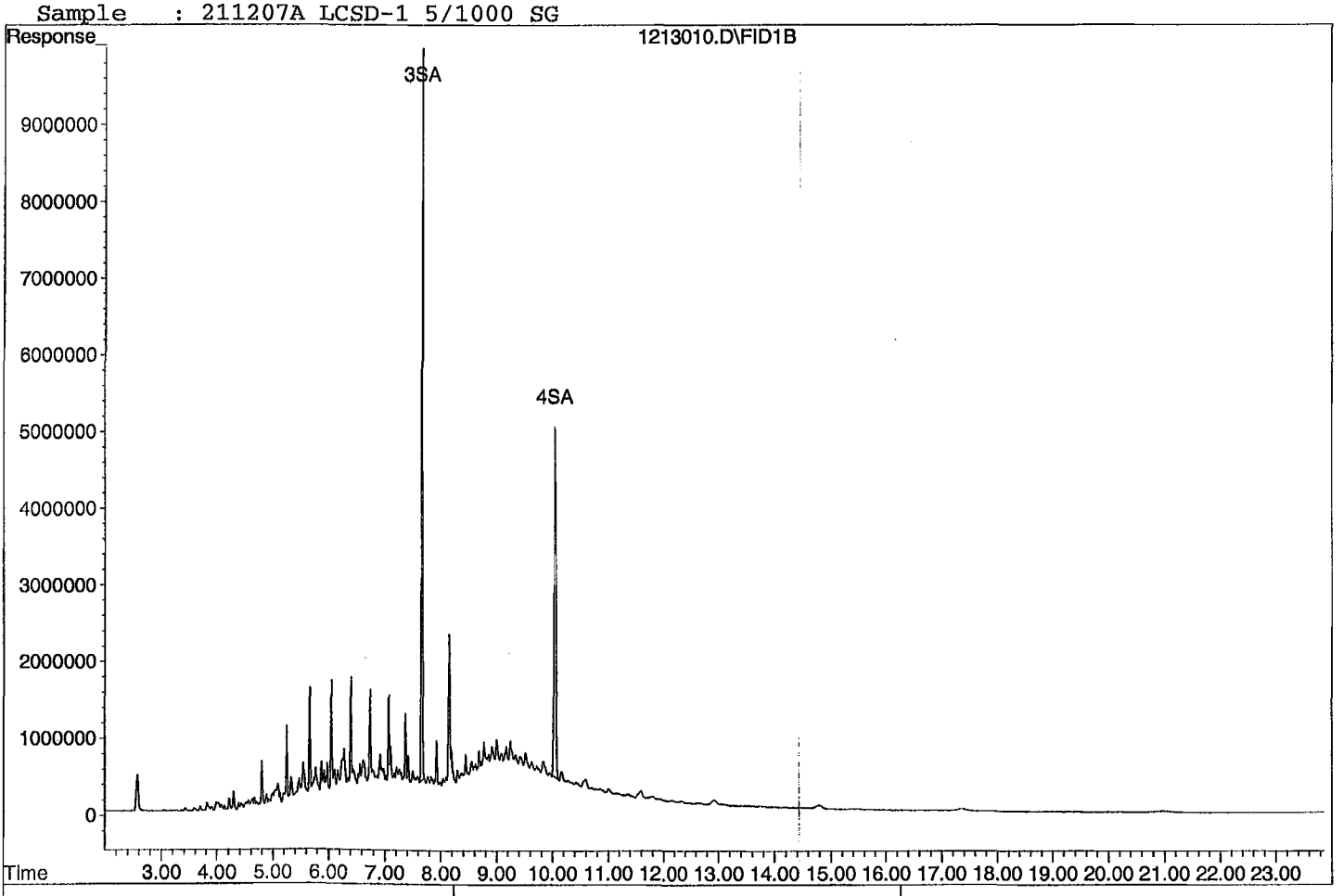
Data File : G:\APOLLO\DATA\211213\1213010.D Vial: 10
Acq On : 12-13-21 17:37:55 Operator: KA
Sample : 211207A LCSD-1 5/1000 SG Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 14 9:40 2021 Quant Results File: DOC1212.RES

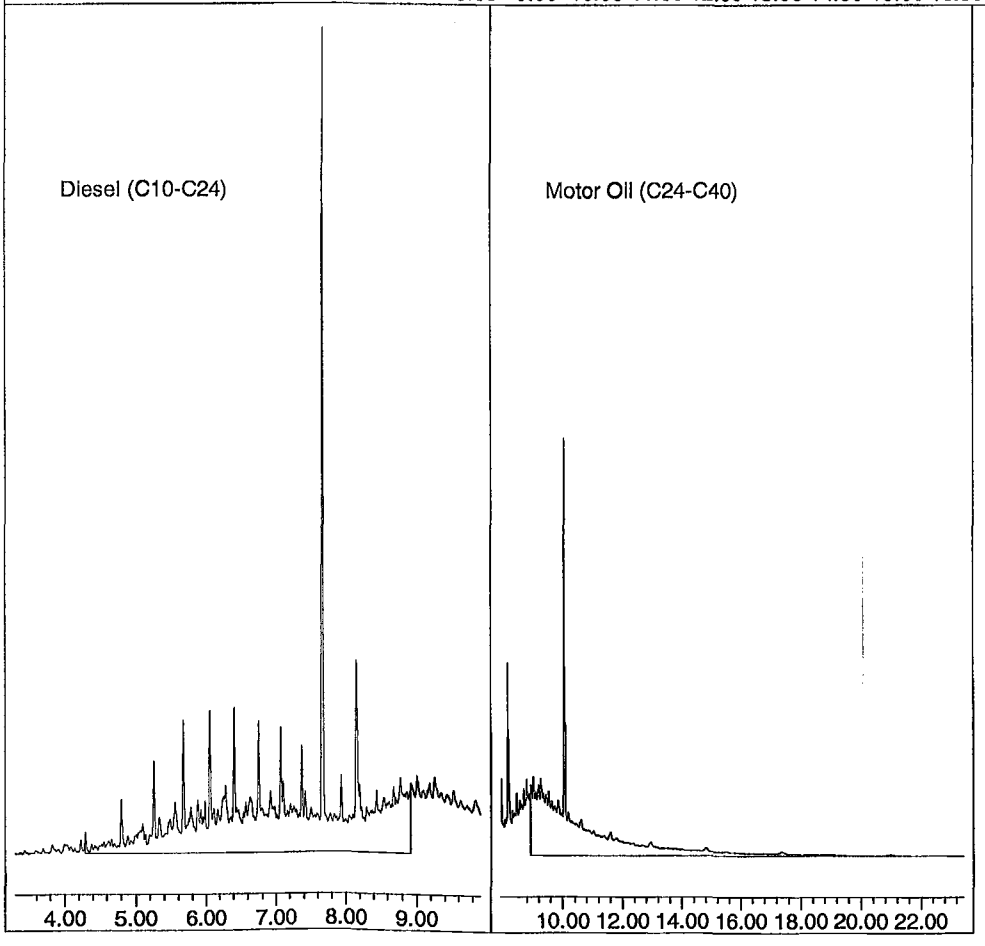
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	131403786	131.075 ppb
Surrogate Spike 150.000		Recovery =	87.38%
4) SA Octacosane(S)	10.05	104570054	144.407 ppb
Surrogate Spike 150.000		Recovery =	96.27%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	1243350921	1529.630 ppb
2) HBTM Motor Oil (C24-C40)	15.67	1054828743	2034.664 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211213\1213010.D
Sample : 211207A LCSD-1 5/1000 SG





Diesel / Motor Oil Calibration Curve

Prepared: 12/12/2021
Expires: 5/31/2026
Prepared By (Initials): KA
Methylene Chloride Lot No. 61117

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Conc. (ug/mL)	APPL Mix Name	Reference to APPL Prep Date and Lot #'s	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil - 2	APPL	10	Diesel / Motor Oil - 1	Perp'd:12/09/21 A0164586-53276, 53175, 53277 and 53278, A0168842-53280, and CL16893-53203	See man. Exp date	11/30/2027 10/31/2027 5/31/2026 3/31/28	100uL	200uL	MC	5
Diesel / Motor Oil - 3		50	Diesel / Motor Oil - 2				200uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	Restek	2,000	Diesel / Motor Oil - 3				25uL	1mL	MC	50
			Diesel / Motor Oil - 4				125uL	1mL	MC	250
			Diesel / Motor Oil - 5				500uL	1mL	MC	1000
			Diesel / Motor Oil - 6				750uL	1mL	MC	1500
			Diesel / Motor Oil - 7				100uL	100uL	N/A	2,000

Diesel / Motor Oil Second Source

Prepared: 10/28/2021
Expires: 10/28/2024
Methylene Chloride Lot No. 61117

Prepared By (Initials): KA

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2 Second Source	Phenova	AL0-101287	50,000	**CL16477-52980**	**See man. Exp date**	**2/28/2027**	50uL	10mL	MC	250
Motor Oil Second Source	Absolute	51094	50,000	**102819-52981**		**10/28/2024**	50uL			

Diesel / Motor Oil Calibration Standard

Prepared: 12/9/2021 **Prepared By (Initials):** KA

Expires: 5/31/2026

Methylene Chloride Lot No. 61117

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	**A0164586-53276, 53275, 53277, and 53278**	**See man. Exp date**	**10/31/2027**	400uL	10mL	MC	2000
Motor Oil	Restek	31464	50,000	**A0168842-52820**		**3/31/2028**	400uL			2000
THC Surrogate	Phenova	ALO-130161	600	**CL16893-53203**		**5/31/2026**	1666uL			100

Diesel Motor Oil Mix

Prepared: 12/2/2021 **Prepared By (Initials):** KA

Expires: 11/30/2027

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	**A0164586-53277 and A0164586-53276**	**See man. Date**	**11/30/2027**	2.00 mL	4.0 mL	NA	25,000
Motor Oil Composite	Restek	31464	50,000	**A0168842-53172 and 53173**	**See man. Date**	**3/31/2028**	2.00 mL			25,000

THC Surrogate

Prepared: 11/23/2021 **KA**

Expires: 5/31/2026

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
O-terphenyl / Octacosane Mix	Phenova	ALO-130161	600	**CL16893-53204**	**See ma. Date**	**5/31/2026**	N/A	N/A	N/A	600

Decanoic Acid Calibration Curve

Prepared: 9/11/2021 **Prepared By (Initials):** KA

Expires: 7/12/2022

Methylene Chloride Lot No. 61117

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Decanoic Acid STD	O2SI	Decanoic Acid-1	60	Prepared 9/11/21	7/12/2022	N/A	50uL	1mL	MC	3
		Decanoic Acid-2					100uL	1mL	MC	6
		Decanoic Acid-3					400uL	1mL	MC	24
		Decanoic Acid-4					600uL	1mL	MC	36
		Decanoic Acid-5					800uL	1mL	MC	48
		Decanoic Acid-6					100uL	100uL	N/A	60

Decanoic Acid Spike

Prepared: 12/1/2021 **Prepared By (Initials): KA**

Expires: 7/8/2024

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Decanoic Acid Spike	Absolute	72766	1,000	**070821-52697**	**See man. Exp date**	**7/8/2024**	N/A	N/A	N/A	1,000

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH- 3520C w/SGC	Extraction Set	211207A	Extraction Method	LIQ005SGC	Units	mL

Spiked ID 1	Diesel Motor Oil Mix 12-2-21 3-31-28		Surrogate ID 1	THC Surrogate 11-23-21 11-12-22	
Spiked ID 2	Decanoic 1000ug/mL Acid Solution 12-1-21 7-8-24		Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	NO	
Spiked ID 7			Ext. Start Time:	12/07/21 10:29	
Spiked ID 8			Ext. End Time:	12/08/21 5:55	
			GC Requires Extract By:		

pH1	2	12/07/21 9:00	Water Bath Temp 1 °C	42/41.1 °C
pH2			Water Bath Temp 2 °C	33/34.1
pH3			Water Bath Temp 3 °C	35/34.5 °C

Spiked By: SR **Date** 12/7/2021 **Witnessed By:** AGM **Date** 12/7/2021

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	211207A Blk		0.050	2	0.250	1	1000	5	2	12/07/21 9:05	*
						equip	E-HP3 E-WB1				
2	211207A LCS-1		0.080,0.050	1,2	0.250	1	1000	5	2	12/07/21 9:05	*
						equip	E-HP4 E-WB2				
3	211207A LCSD-1		0.080,0.050	1,2	0.250	1	1000	5	2	12/07/21 9:05	*
						equip	E-HP6 E-WB3				
4	BA47128	BA47128W09	0.050	2	0.250	1	1050	5	2	12/07/21 9:05	98381 *
						equip	E-HP7 E-WB1				
5	BA47132	BA47132W09	0.050	2	0.250	1	1030	5	2	12/07/21 9:05	98381 *
						equip	E-HP8 E-WB2				
6	BA47134	BA47134W09	0.050	2	0.250	1	1020	5	2	12/07/21 9:05	98381 *
						equip	E-HP9 E-WB3				

Solvent and Lot#	
1+1 HCL (5mLs)	60358
PH Strips	HC160347
Dichloromethane (DCM)	61117
Filter Paper	400202
Sodium Sulfate	2021071206
SILICA GEL (*)	050627T

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	CW
Date	12/8/21
Time	13:40
Refrigerator	HOBART

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

Modified	12/9/2021 8:44:03 AM

Reviewed By: KY **Date** 12/9/2021

Injection Log

Directory: G:\APOLLO\DATA\210911\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	911002.D	1	Decanoic Acid STD 1	water	9-11-21 10:22:53
2	3	911003.D	1	Decanoic Acid STD 2	water	9-11-21 10:51:11
3	4	911004.D	1	Decanoic Acid STD 3	water	9-11-21 11:19:39
4	5	911005.D	1	Decanoic Acid STD 4	water	9-11-21 11:48:04
5	6	911006.D	1	Decanoic Acid STD 5	water	9-11-21 12:16:37
6	7	911007.D	1	Decanoic Acid STD 6	water	9-11-21 12:45:02
7	4	1212006.D	1	DMO Calibration 1 12/12/21	Water	12-12-21 16:08:57
8	5	1212007.D	1	DMO Calibration 2 12/12/21	Water	12-12-21 16:37:14
9	6	1212008.D	1	DMO Calibration 3 12/12/21	Water	12-12-21 17:05:32
10	7	1212009.D	1	DMO Calibration 4 12/12/21	Water	12-12-21 17:33:48
11	8	1212010.D	1	DMO Calibration 5 12/12/21	Water	12-12-21 18:02:04
12	9	1212011.D	1	DMO Calibration 6 12/12/21	Water	12-12-21 18:30:20
13	10	1212012.D	1	DMO Calibration 7 12/12/21	Water	12-12-21 18:58:36
14	11	1212013.D	1	DMO Second Source 10/28/21	Water	12-12-21 19:26:51
15	3	1213003.D	1	DMO STD DF2 12/09/21	Water	12-13-21 14:20:32
16	4	1213004.D	1	Decanoic Acid CCV 11/05/21	Water	12-13-21 14:48:36
17	8	1213008.D	5	211207A BLK 5/1000 SG	Water	12-13-21 16:41:28
18	9	1213009.D	5	211207A LCS-1 5/1000 SG	Water	12-13-21 17:09:41
19	10	1213010.D	5	211207A LCSD-1 5/1000 SG	Water	12-13-21 17:37:55
20	11	1213011.D	4.7619	BA47128W09 5/1050 SG	Water	12-13-21 18:06:03
21	12	1213012.D	4.85437	BA47132W09 5/1030 SG	Water	12-13-21 18:34:18
22	13	1213013.D	4.90196	BA47134W09 5/1020 SG	Water	12-13-21 19:02:30
23	20	1213020.D	1	DMO STD DF2 12/09/21	Water	12-14-21 9:40:09
24	21	1213021.D	1	Decanoic Acid CCV 11/05/21	Water	12-14-21 10:08:25

ORGANICS
Calibration Data

TPH Extractables
DOC1212

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 12/12/2021
Matrix: Water Instrument: Apollo Initials: LAC

			1212006.D	1212007.D	1212008.D	1212009.D	1212010.D	1212011.D	1212012.D								
		Compound	1	2	3	4	5	6	7				Avg	%RSD	Type	r^2	Q
1	HATML	Diesel (C10-C24)	8409900	1925328	2069958	2001689	2006236	1962917	2154305				2932905	82	HATM	0.997	
2	HBTML	Motor Oil (C24-C40)	6316816	1467738	1268546	1230563	1263138	1244243	1381191				2024605	94	HBTM	0.996	
3	SA	Ortho-Terphenyl(S)		2678531	2553559	2458004	2431880	2380674	2534932				2506263	4.2	SA		
4	SA	Octacosane(S)		1928500	1894461	1754396	1742966	1677732	1863978				1810339	5.5	SA		
5																	
6																	
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8																	
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35																	

5.305152

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212006.D Vial: 4
Acq On : 12-12-21 16:08:57 Operator: KA
Sample : DMO Calibration 1 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:49 2021 Quant Results File: DOC1212.RES

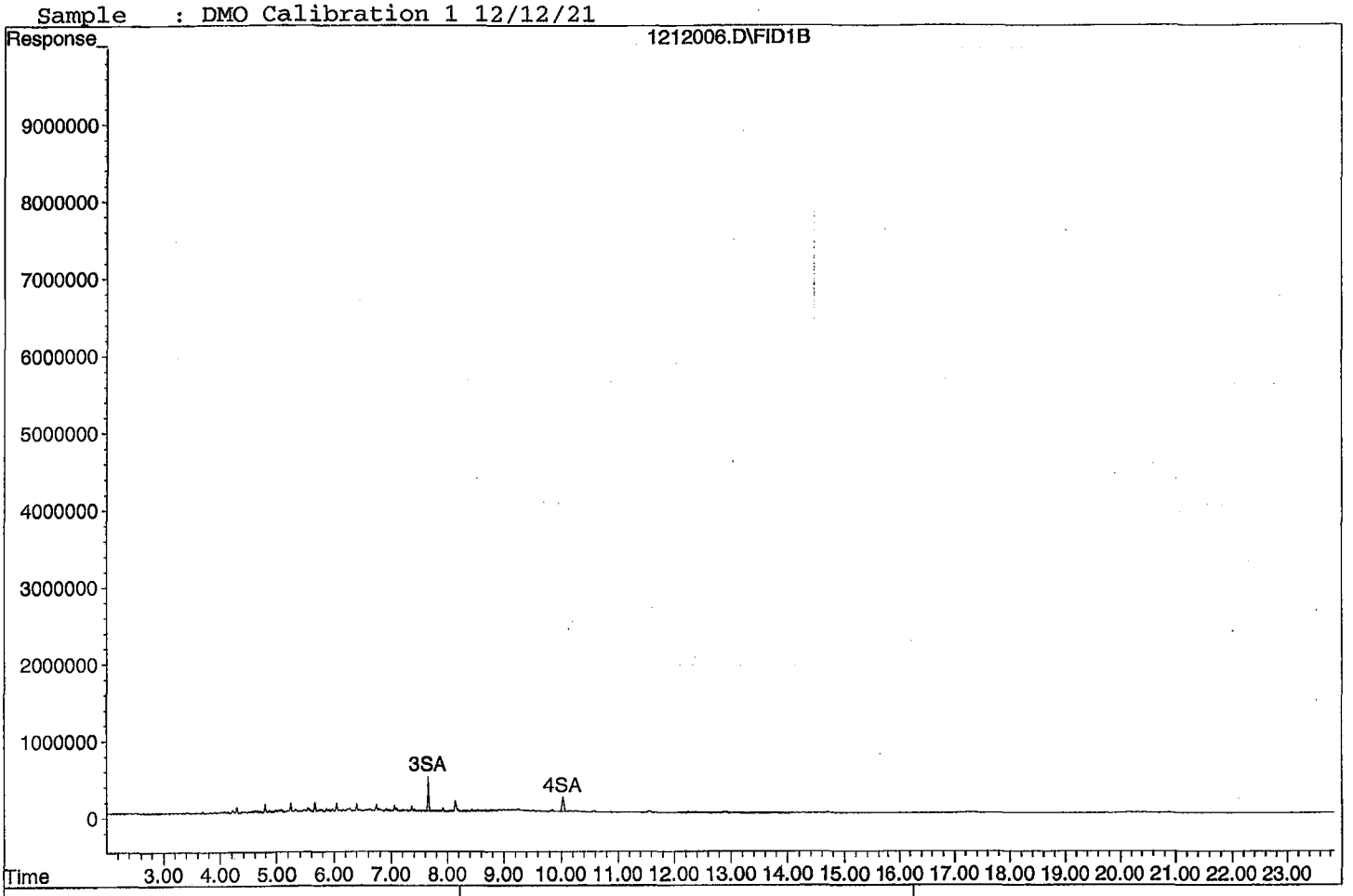
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

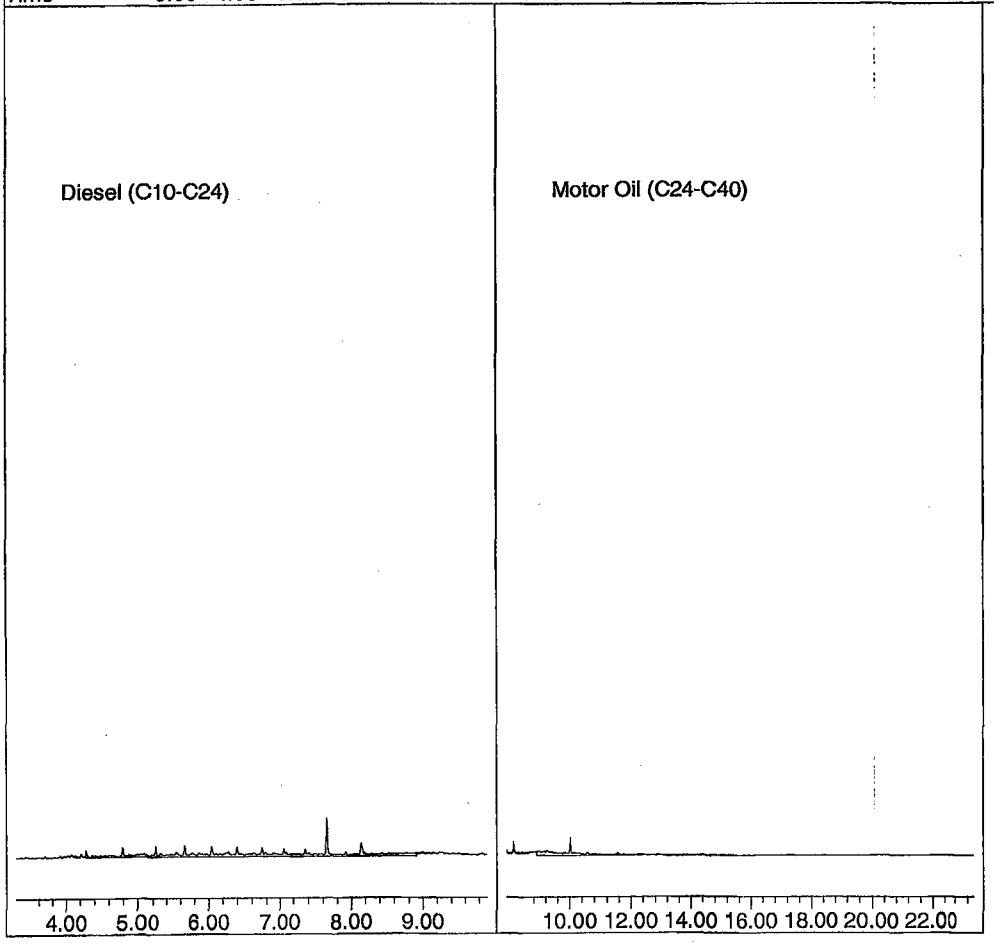
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.65	5591530	362.599 ppb
Surrogate Spike 30.000	Recovery	=	1208.66%
4) SA Octacosane(S)	10.03	4056830	1.381 ppb
Surrogate Spike 30.000	Recovery	=	4.60%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	84098995	26.361 ppb
2) HBTM Motor Oil (C24-C40)	15.67	63168156	34.400 ppb
Target Compounds			

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

Data File: G:\APOLLO\DATA\211212\1212006.D
Sample : DMO Calibration 1 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212007.D Vial: 5
Acq On : 12-12-21 16:37:14 Operator: KA
Sample : DMO Calibration 2 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:49 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

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

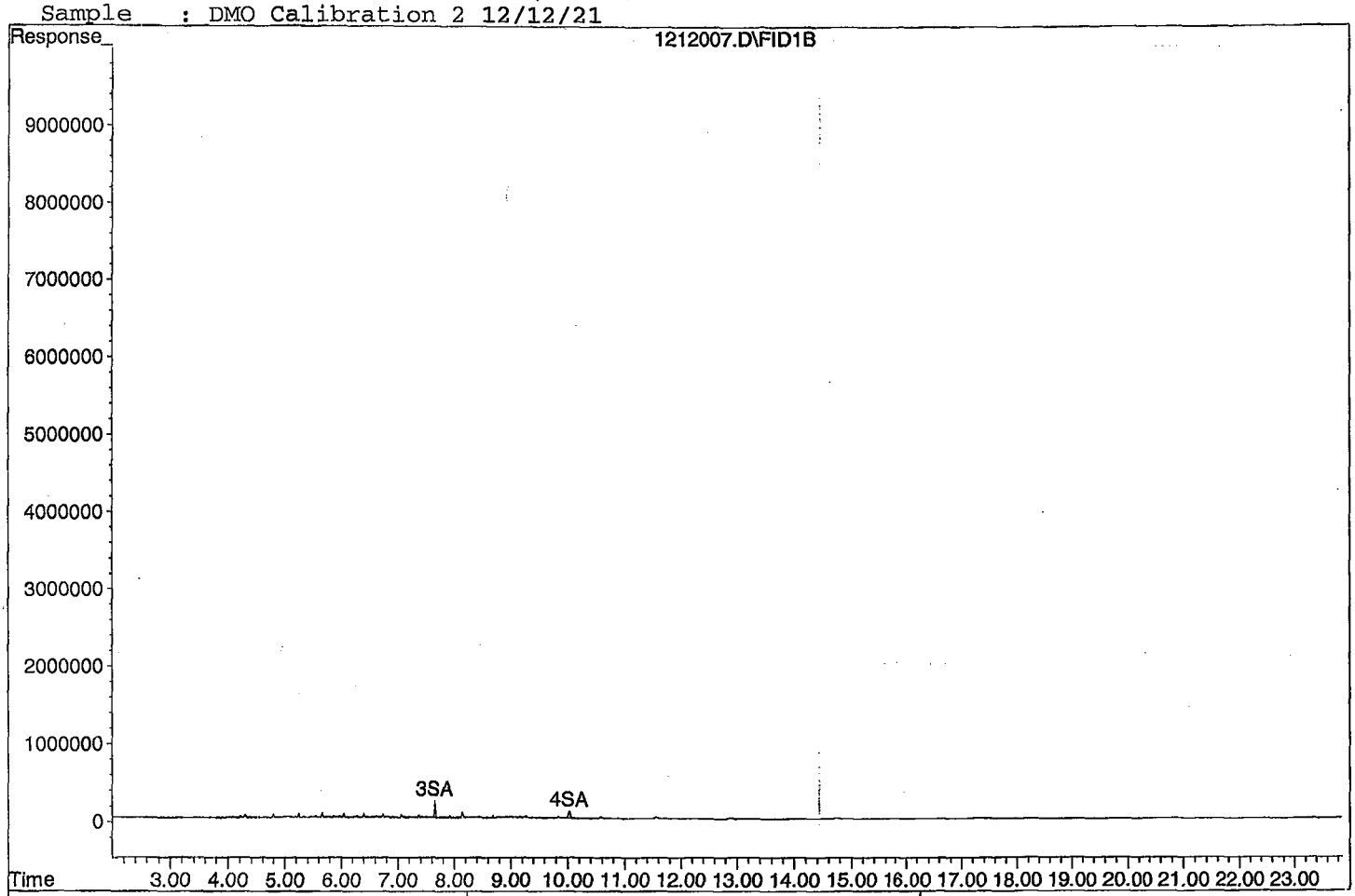
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.65	2678531	172.354 ppb
Surrogate Spike 30.000	Recovery =		574.51%
4) SA Octacosane(S)	10.03	1928500	0.788 ppb
Surrogate Spike 30.000	Recovery =		2.63%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	38506565	16.036 ppb
2) HBTM Motor Oil (C24-C40)	15.67	29354754	21.697 ppb

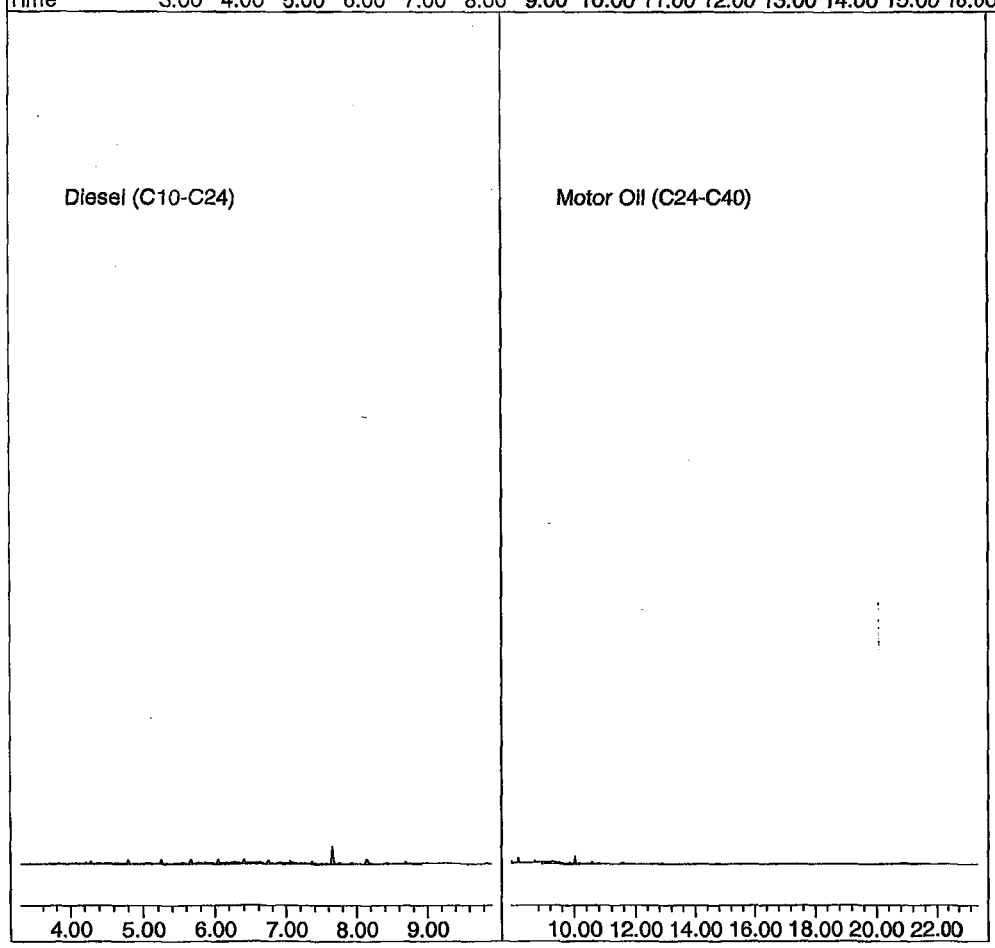
Target Compounds

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

Quantitation Report

Data File: G:\APOLLO\DATA\211212\1212007.D
Sample : DMO Calibration 2 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212008.D Vial: 6
Acq On : 12-12-21 17:05:32 Operator: KA
Sample : DMO Calibration 3 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

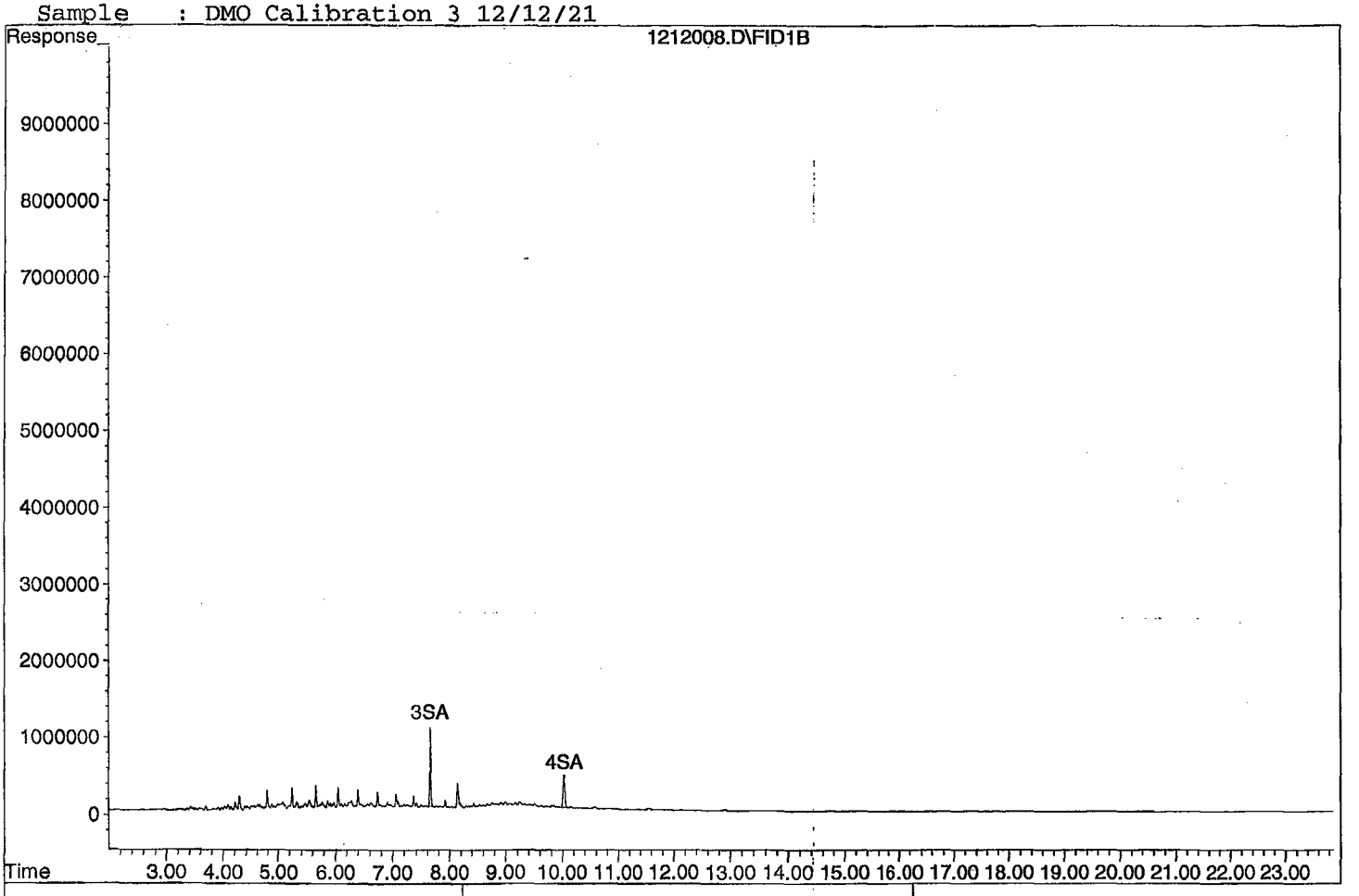
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

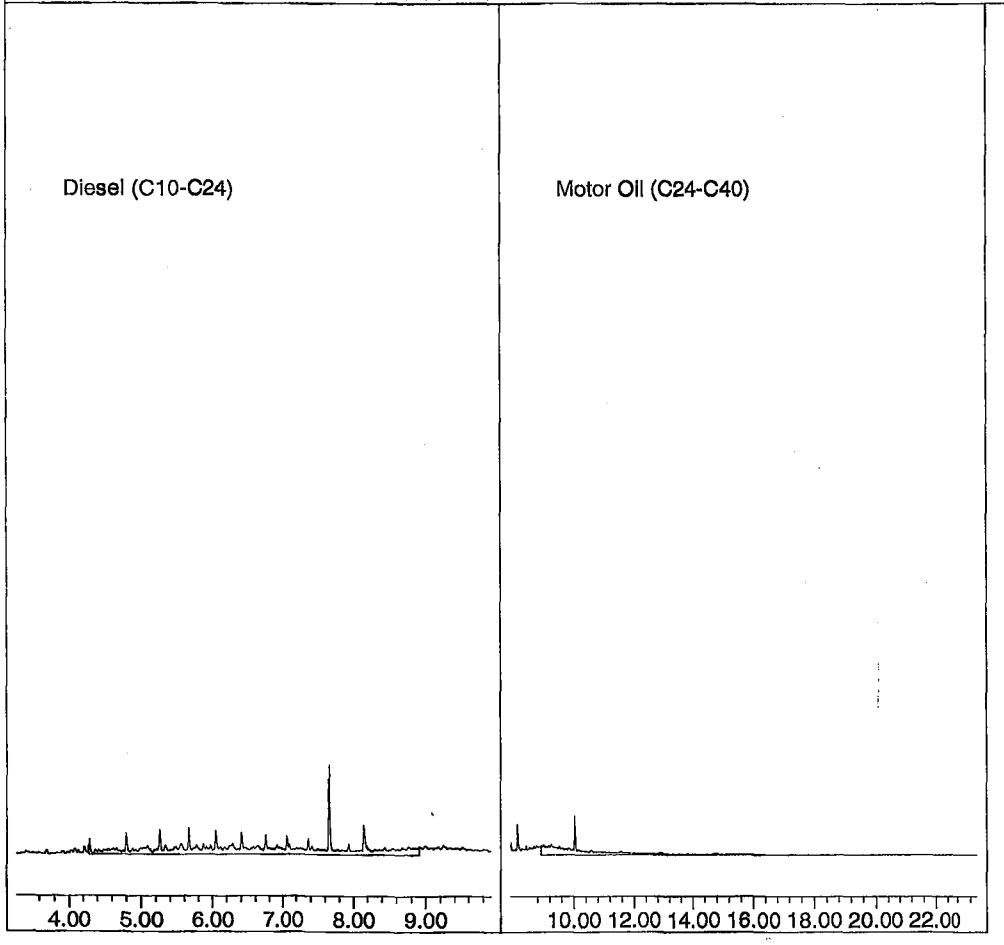
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.65	12767795	831.275	ppb
Surrogate Spike 30.000	Recovery	=	2770.92%	
4) SA Octacosane(S)	10.03	9472303	2.889	ppb
Surrogate Spike 30.000	Recovery	=	9.63%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.60	206995836	54.193	ppb
2) HBTM Motor Oil (C24-C40)	15.67	126854570	58.325	ppb

Target Compounds

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

Data File: G:\APOLLO\DATA\211212\1212008.D
Sample : DMO Calibration 3 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212009.D Vial: 7
Acq On : 12-12-21 17:33:48 Operator: KA
Sample : DMO Calibration 4 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

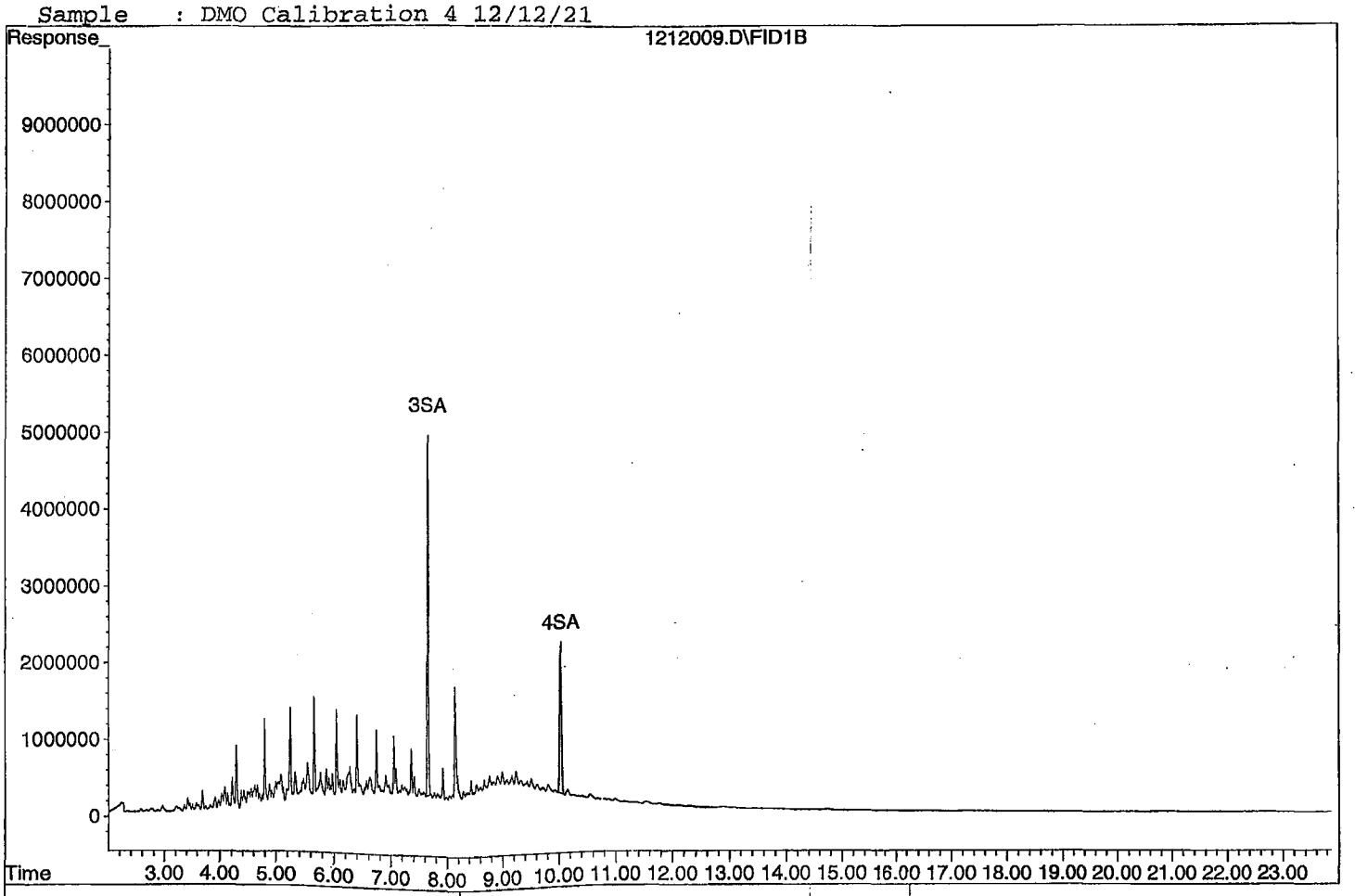
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

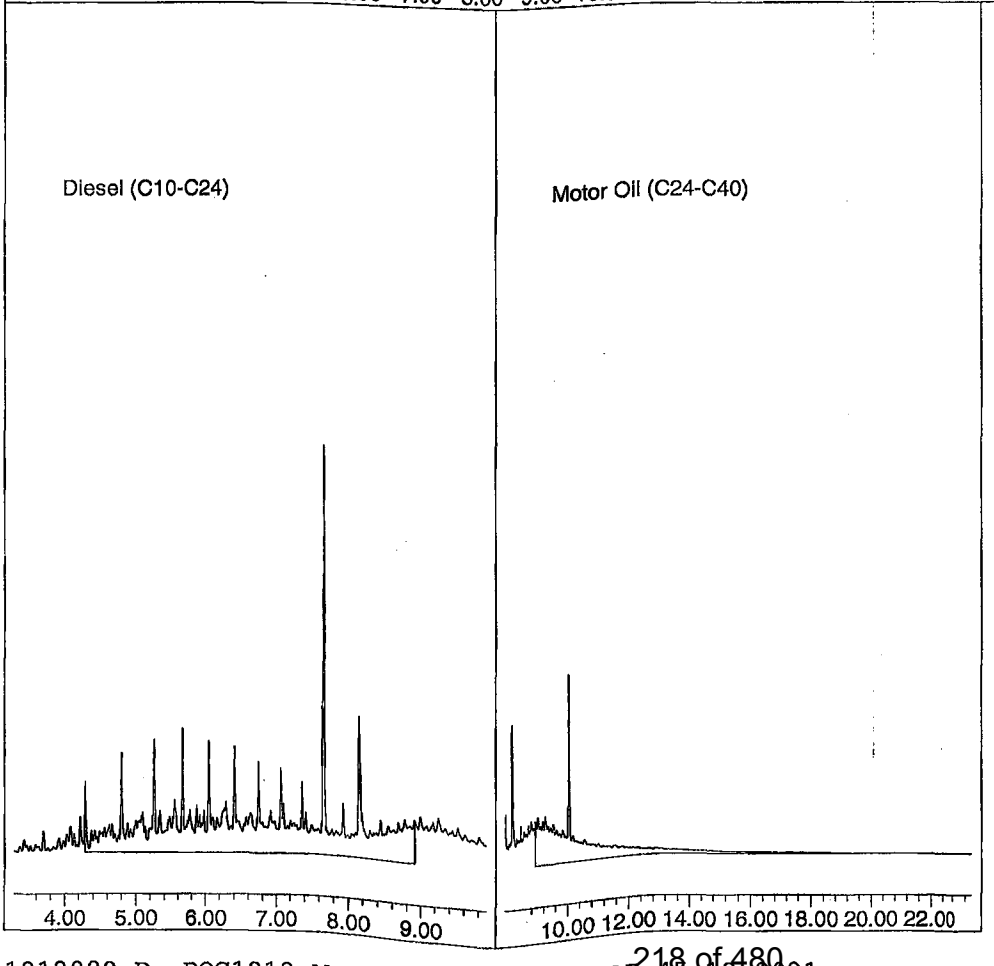
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	61450098	4010.675 ppb
Surrogate Spike 30.000		Recovery =	13368.92%
4) SA Octacosane(S)	10.03	43859896	12.467 ppb
Surrogate Spike 30.000		Recovery =	41.56%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	1000844348	233.976 ppb
2) HBTM Motor Oil (C24-C40)	15.67	615281568	241.810 ppb

Target Compounds

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

Data File: G:\APOLLO\DATA\211212\1212009.D
Sample : DMO Calibration 4 12/12/21





Quantitation Report (Not Reviewed)

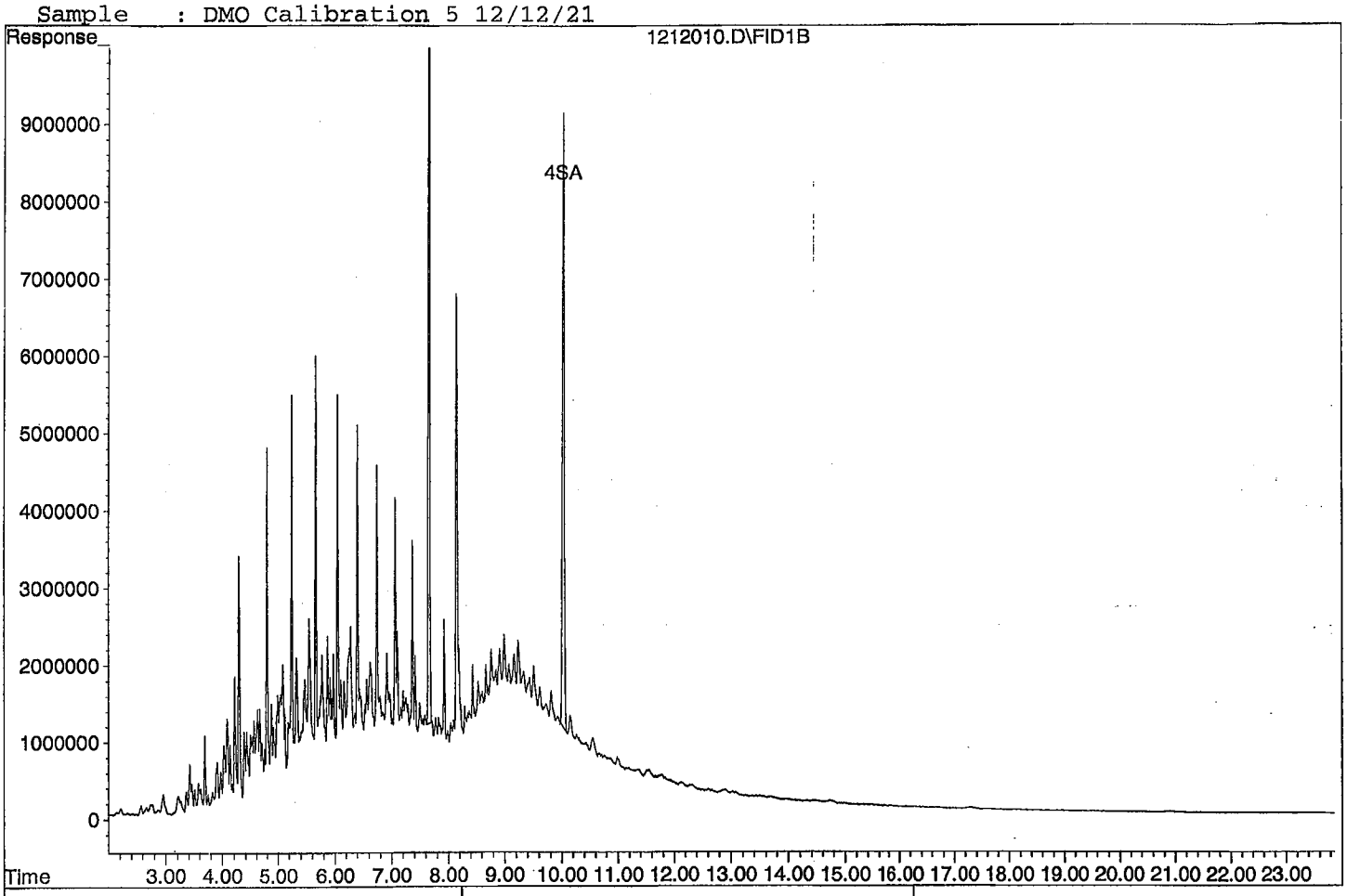
Data File : G:\APOLLO\DATA\211212\1212010.D Vial: 8
Acq On : 12-12-21 18:02:04 Operator: KA
Sample : DMO Calibration 5 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

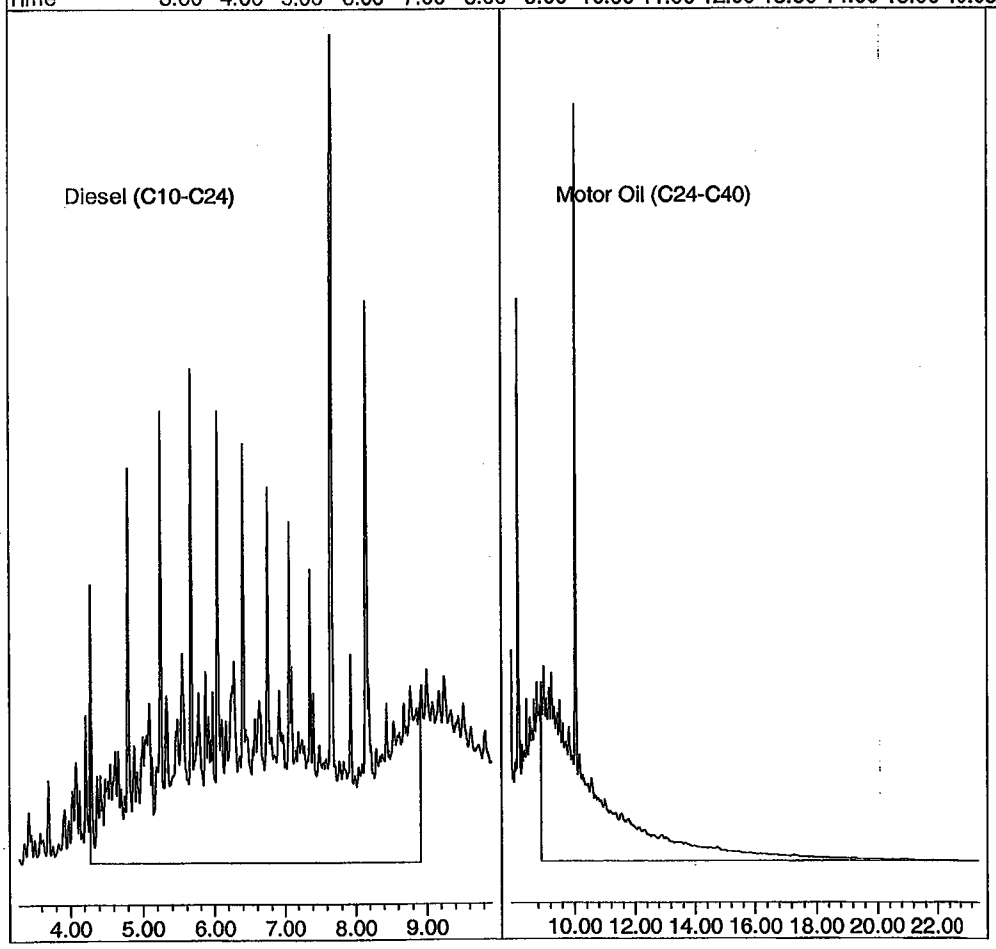
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.66	243188022	15879.826 ppb
Surrogate Spike 30.000		Recovery =	52932.75%
4) SA Octacosane(S)	10.04	174296600	48.797 ppb
Surrogate Spike 30.000		Recovery =	162.66%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	4012472898	916.018 ppb
2) HBTM Motor Oil (C24-C40)	15.67	2526276181	959.706 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211212\1212010.D
Sample : DMO Calibration 5 12/12/21





Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212011.D Vial: 9
Acq On : 12-12-21 18:30:20 Operator: KA
Sample : DMO Calibration 6 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

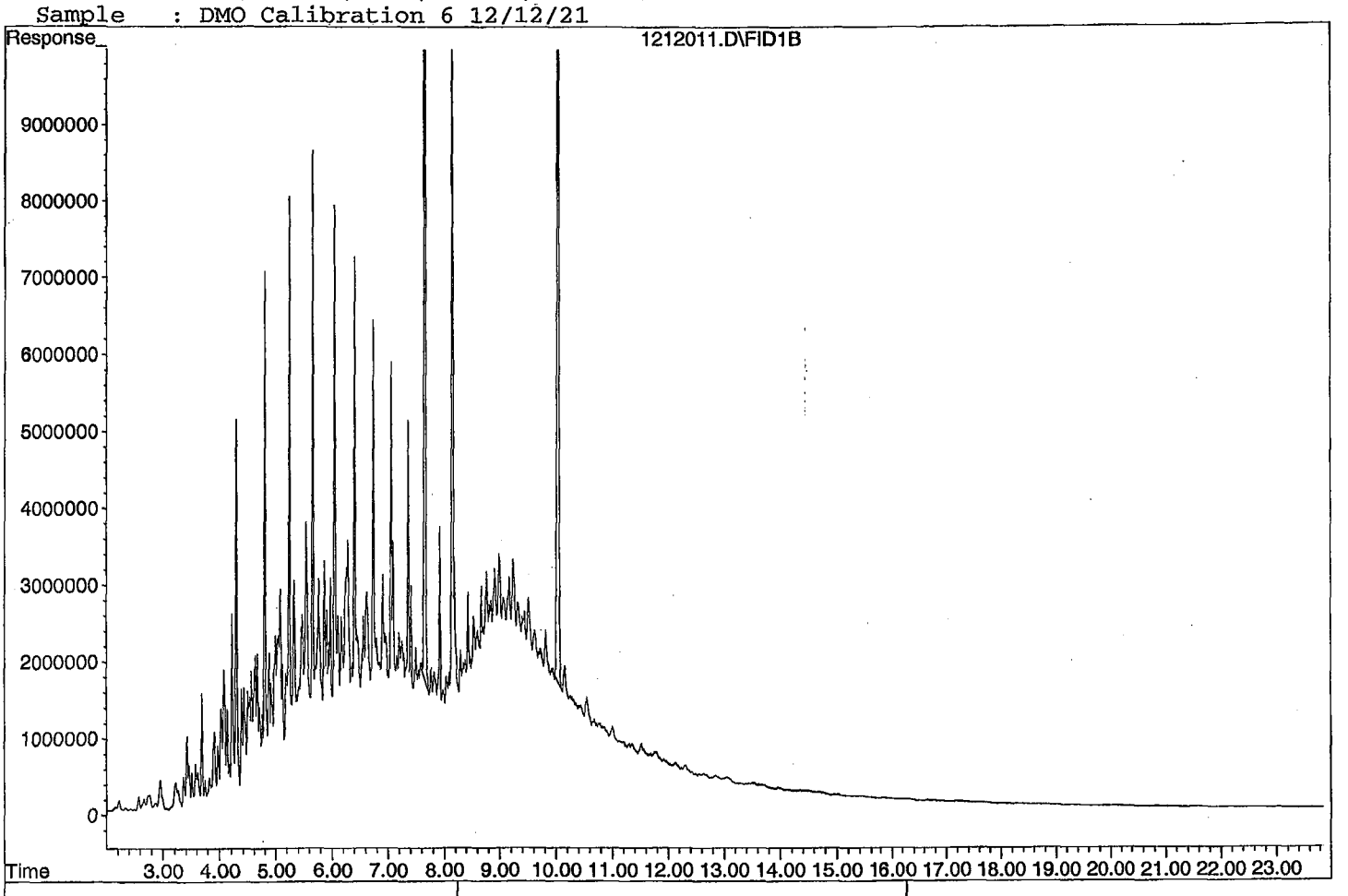
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

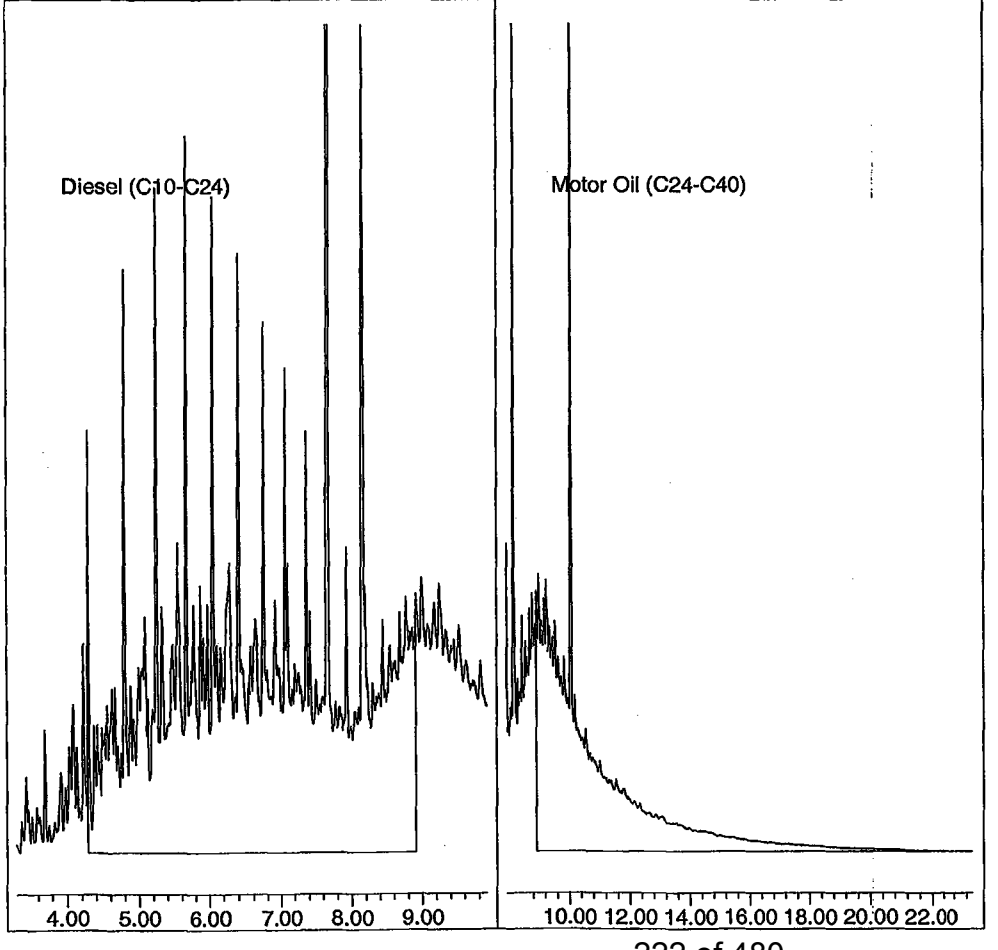
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.66	357101161	23319.396	ppb
Surrogate Spike 30.000		Recovery =	77731.32%	
4) SA Octacosane(S)	10.04	251659753	70.344	ppb
Surrogate Spike 30.000		Recovery =	234.48%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.60	5888751722	1340.938	ppb
2) HBTM Motor Oil (C24-C40)	15.67	3732727704	1412.928	ppb

Target Compounds

(f)=RT Delta > 1/2 Window (m)=manual int.
1212011.D DOC1212.M Mon Dec 13 07:45:17 2021 Page 1

Data File: G:\APOLLO\DATA\211212\1212011.D
Sample : DMO Calibration 6 12/12/21





Quantitation Report (Not Reviewed)

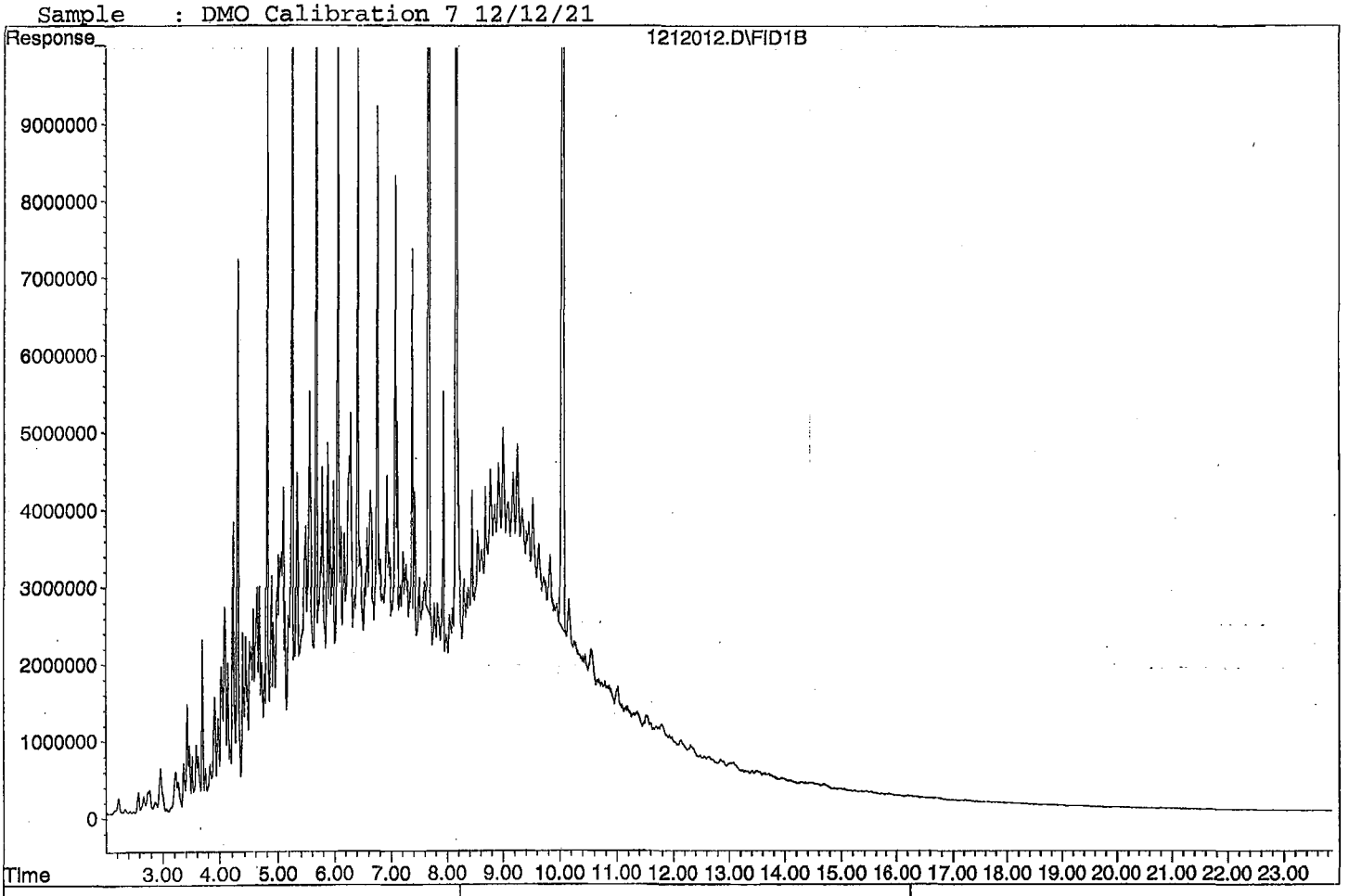
Data File : G:\APOLLO\DATA\211212\1212012.D Vial: 10
Acq On : 12-12-21 18:58:36 Operator: KA
Sample : DMO Calibration 7 12/12/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:50 2021 Quant Results File: DOC1212.RES

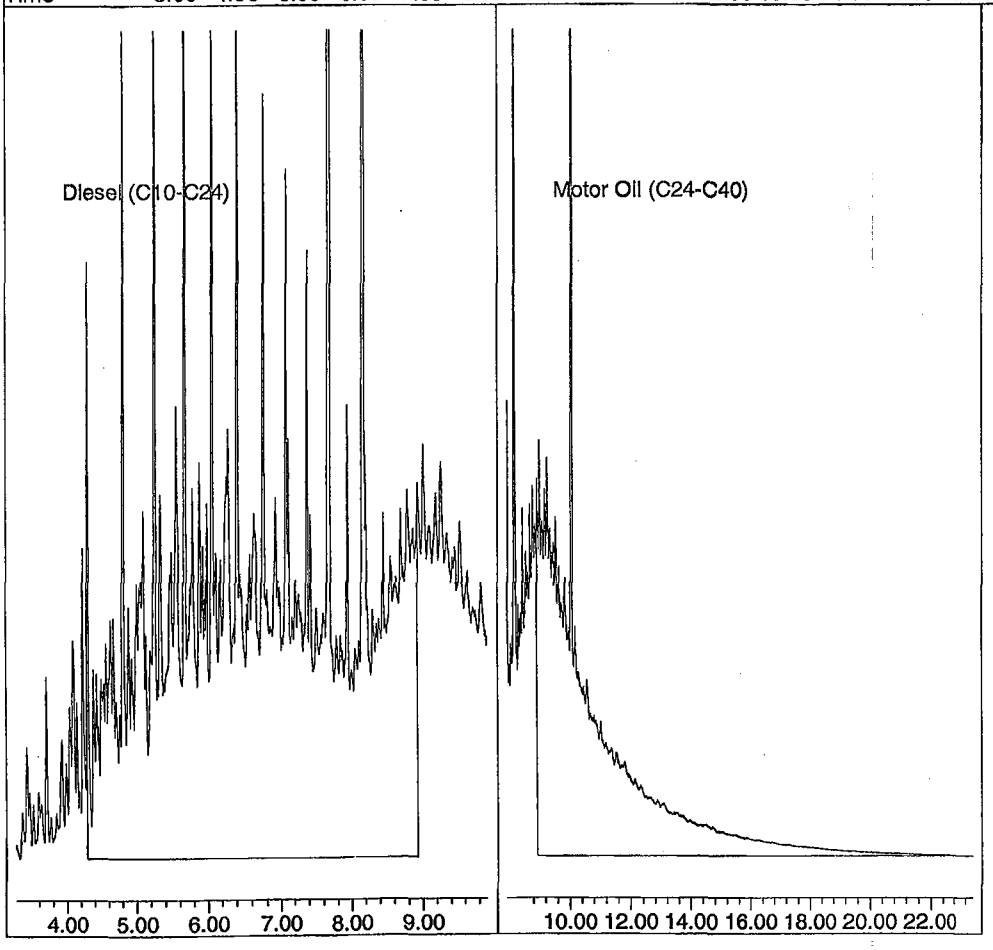
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	506986332	33108.270 ppb
Surrogate Spike 30.000		Recovery =	110360.90%
4) SA Octacosane(S)	10.05	372795641	104.084 ppb
Surrogate Spike 30.000		Recovery =	346.95%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	8617221755	1958.853 ppb
2) HBTM Motor Oil (C24-C40)	15.67	5524762507	2086.135 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211212\1212012.D
Sample : DMO Calibration 7 12/12/21





TPH Extractables
DOC1212

Form 7

Second Source Calibration

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

SDG No:
Date Analyzed: 12/12/2021
Instrument: Apollo
Initial Cal. Date: 12/12/2021
Data File: 1212013.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2932900	1827280	38	HATML	9.3
2	HBTM	Motor Oil (C24-C40)	2024600	1287750	36	HBTML	1.0
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		Average			37.0		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211212\1212013.D Vial: 11
Acq On : 12-12-21 19:26:51 Operator: KA
Sample : DMO Second Source 10/28/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 13 5:53 2021 Quant Results File: DOC1212.RES

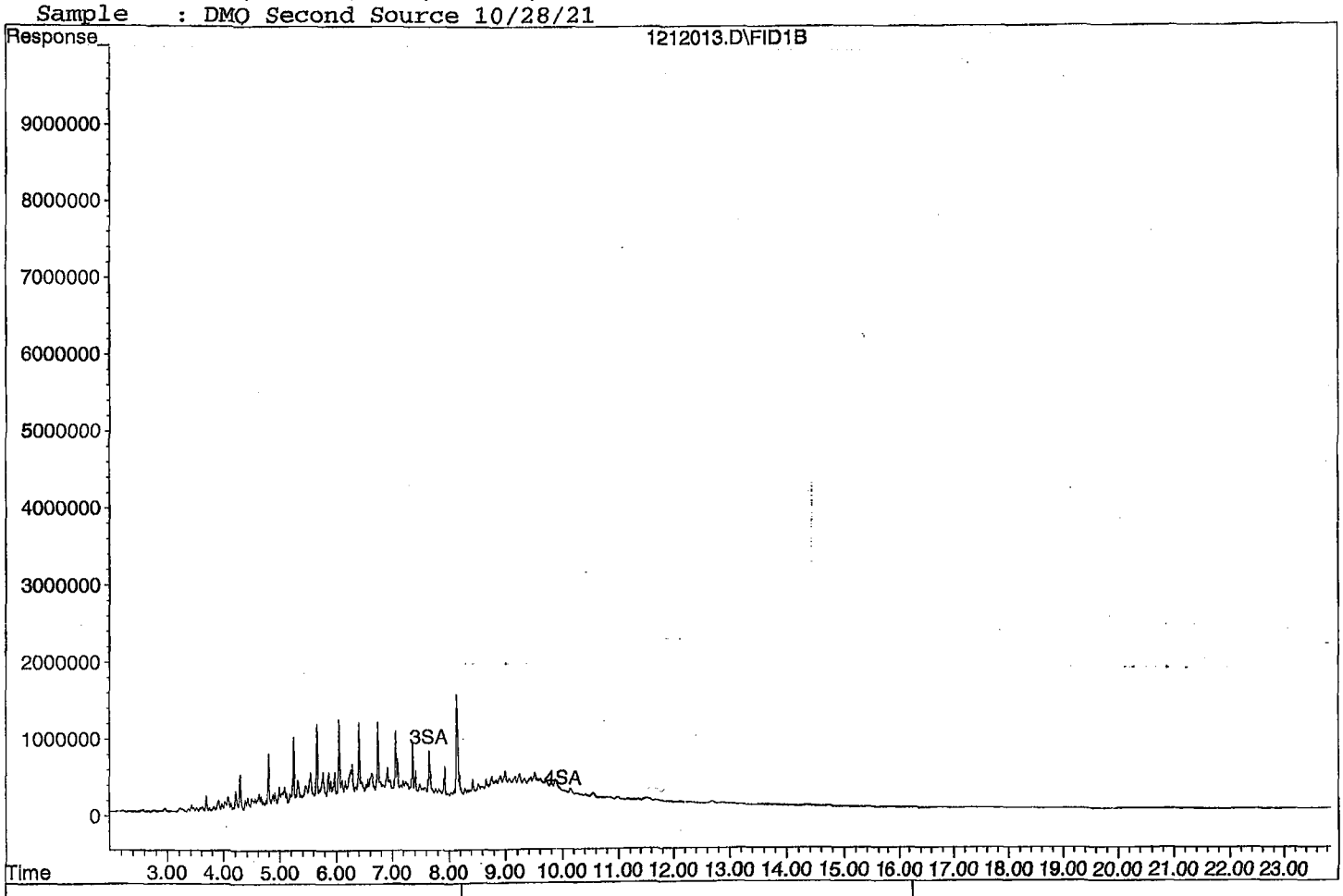
Method : G:\APOLLO\DATA\211212\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Mon Dec 13 05:52:11 2021
Response via : Multiple Level Calibration

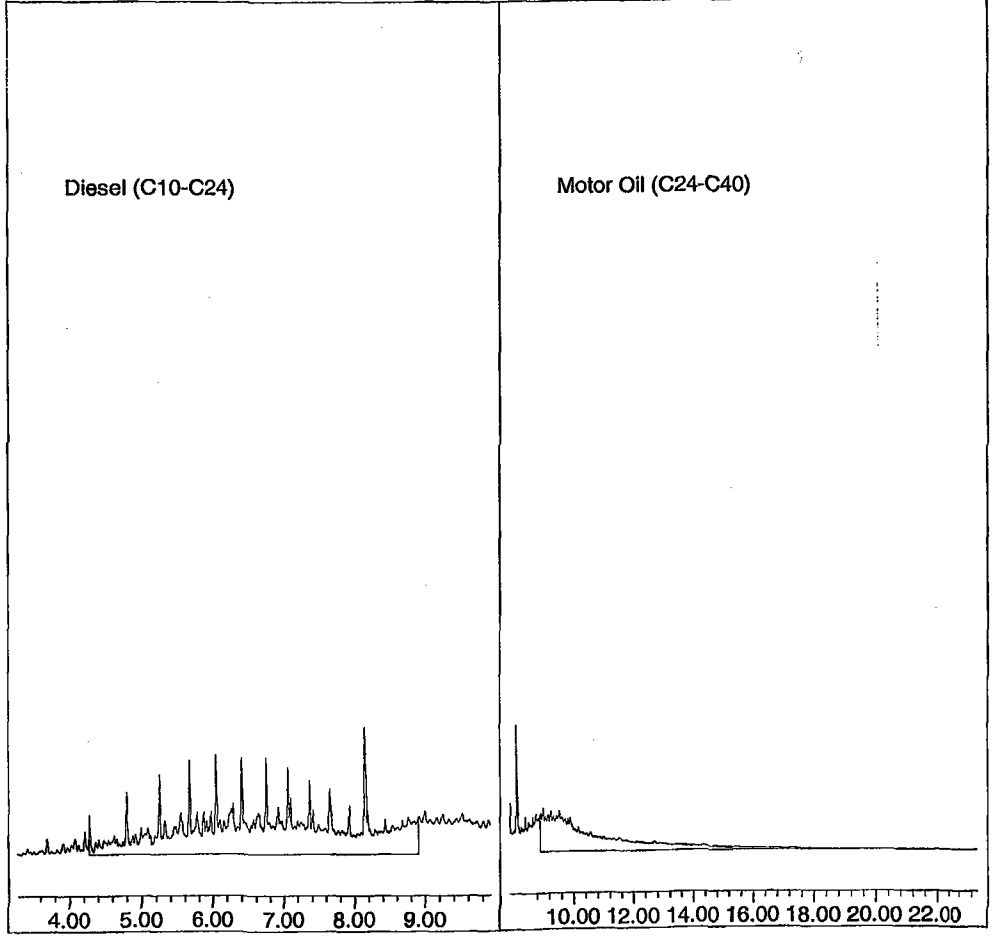
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

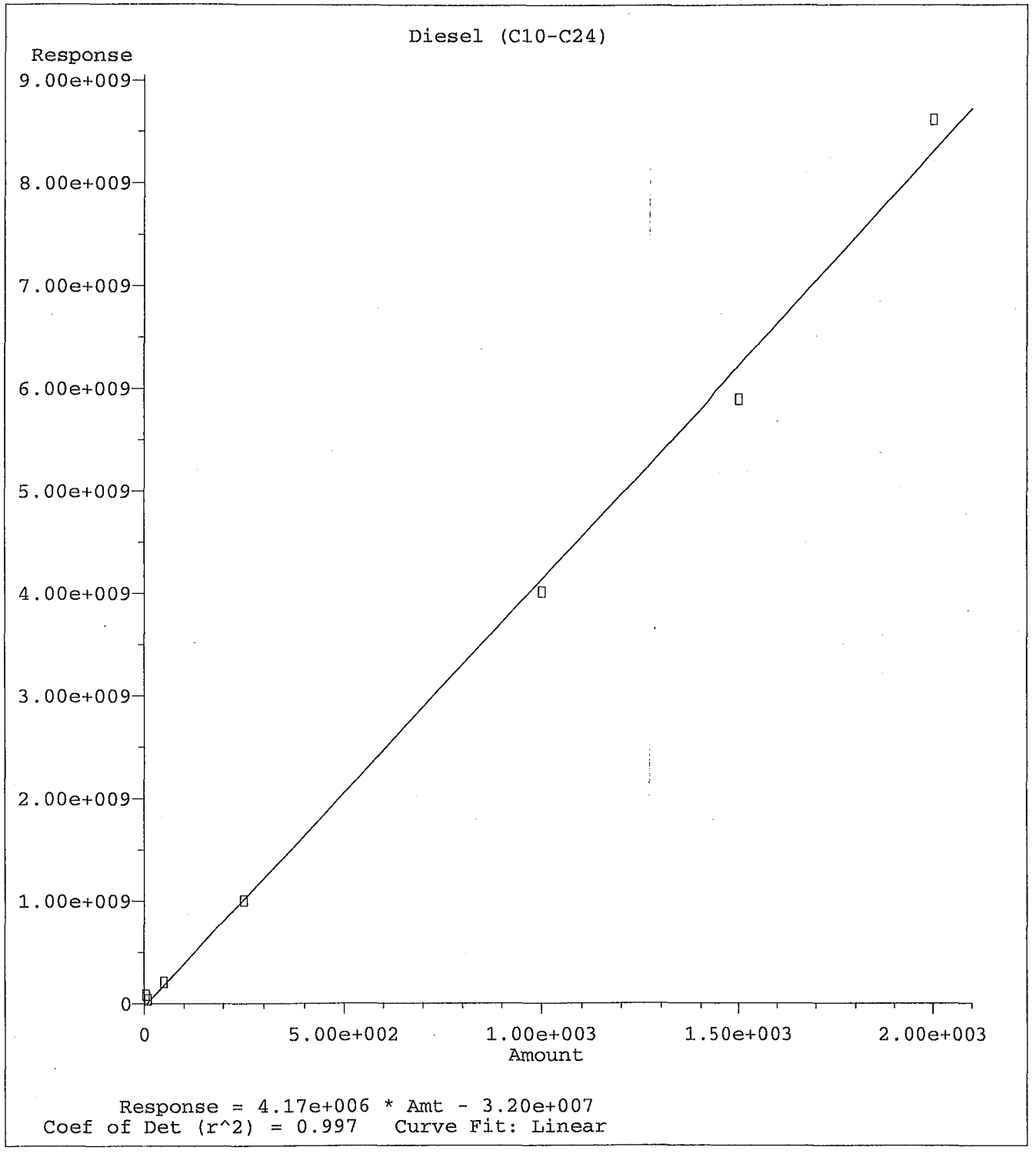
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.65	4209010	0.840	ppb
Surrogate Spike 30.000	Recovery =		2.80%	
4) SA Octacosane(S)	10.02	207793	0.057	ppb
Surrogate Spike 30.000	Recovery =		0.19%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.60	913639690	226.836	ppb
2) HBTM Motor Oil (C24-C40)	15.67	643874690	252.551	ppb
Target Compounds				

(f)=RT Delta > 1/2 Window (m)=manual int.
1212013.D DOC1212.M Mon Dec 13 07:45:24 2021 Page 1

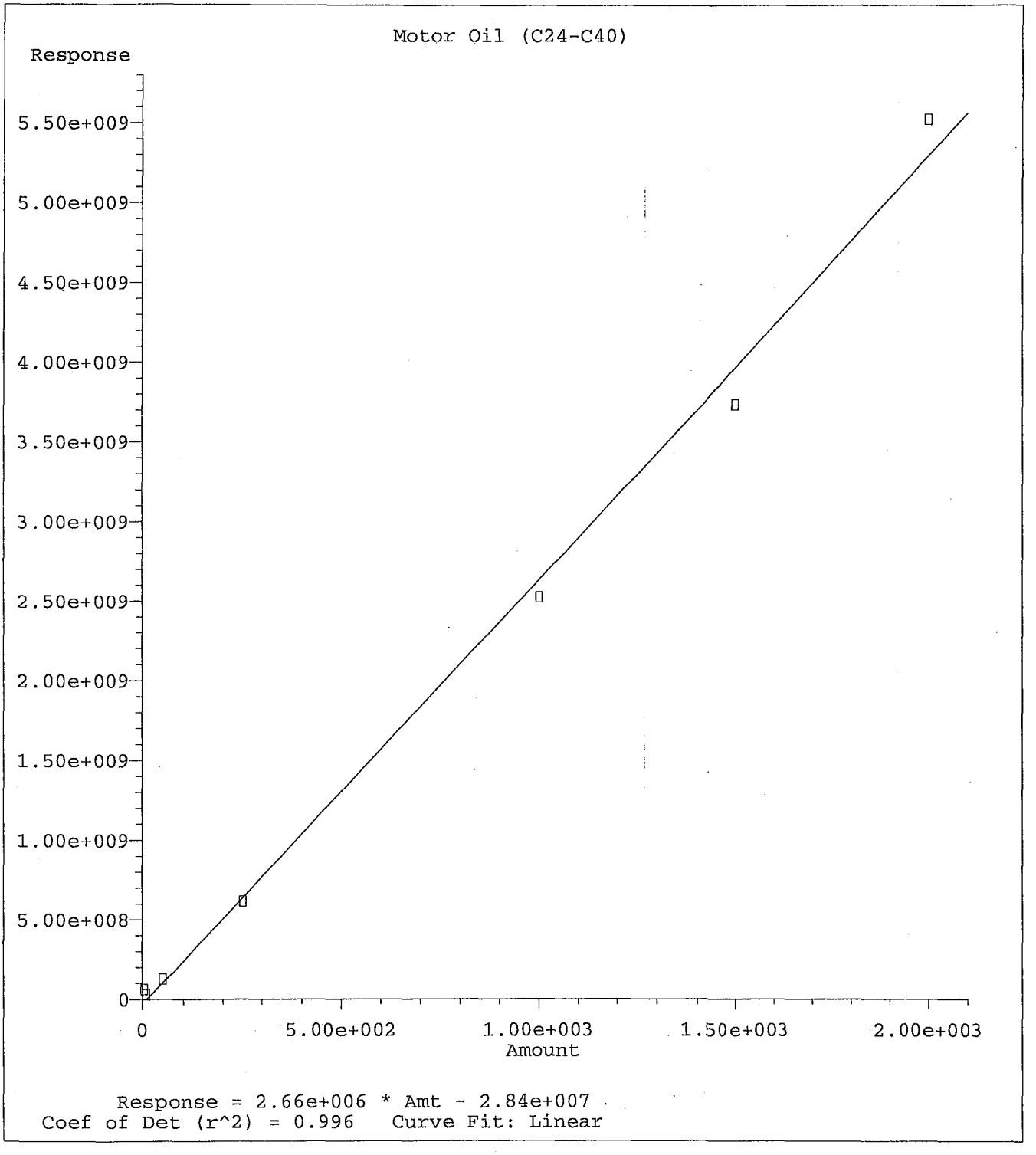
Data File: G:\APOLLO\DATA\211212\1212013.D
Sample : DMO Second Source 10/28/21







Method Name: G:\APOLLO\DATA\211212\DOC1212.M
Calibration Table Last Updated: Mon Dec 13 05:52:11 2021



Method Name: G:\APOLLO\DATA\211212\DOC1212.M
Calibration Table Last Updated: Mon Dec 13 05:52:11 2021

TPH Extractables
DOC1212

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 12/14/2021
Instrument: Apollo
Initial Cal. Date: 12/12/2021
Data File: 1213032.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2932900	2134280	27	HATML	3.2
2	HBTM	Motor Oil (C24-C40)	2024600	1396620	31	HBTML	6.0
3	SA	Ortho-Terphenyl(S)	2506260	2611360	4.2	SA	
4	SA	Octacosane(S)	1810340	1946810	7.5	SA	
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		Average			17.4		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211213\1213032.D Vial: 32
Acq On : 12-14-21 15:29:14 Operator: KA
Sample : DMO STD DF2 12/09/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 14 17:14 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

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

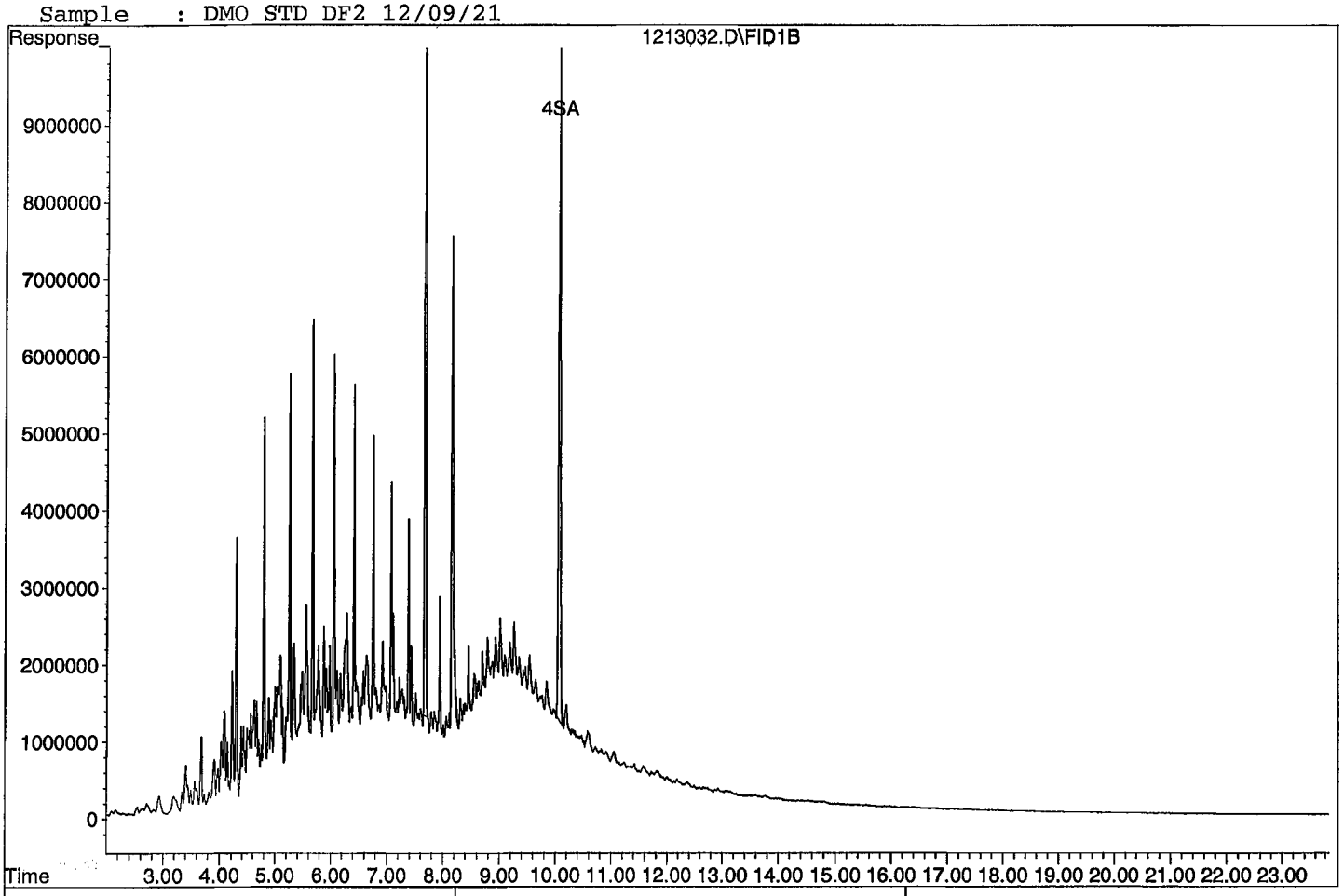
Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
3) SA Ortho-Terphenyl(S)	7.67	261135761	52.097	ppb
Surrogate Spike 30.000		Recovery =	173.66%	
4) SA Octacosane(S)	10.07	194681466	53.769	ppb
Surrogate Spike 30.000		Recovery =	179.23%	
Target Compounds				
1) HATM Diesel (C10-C24)	6.60	4268565047	1031.601	ppb
2) HBTM Motor Oil (C24-C40)	15.67	2793238661	1059.994	ppb

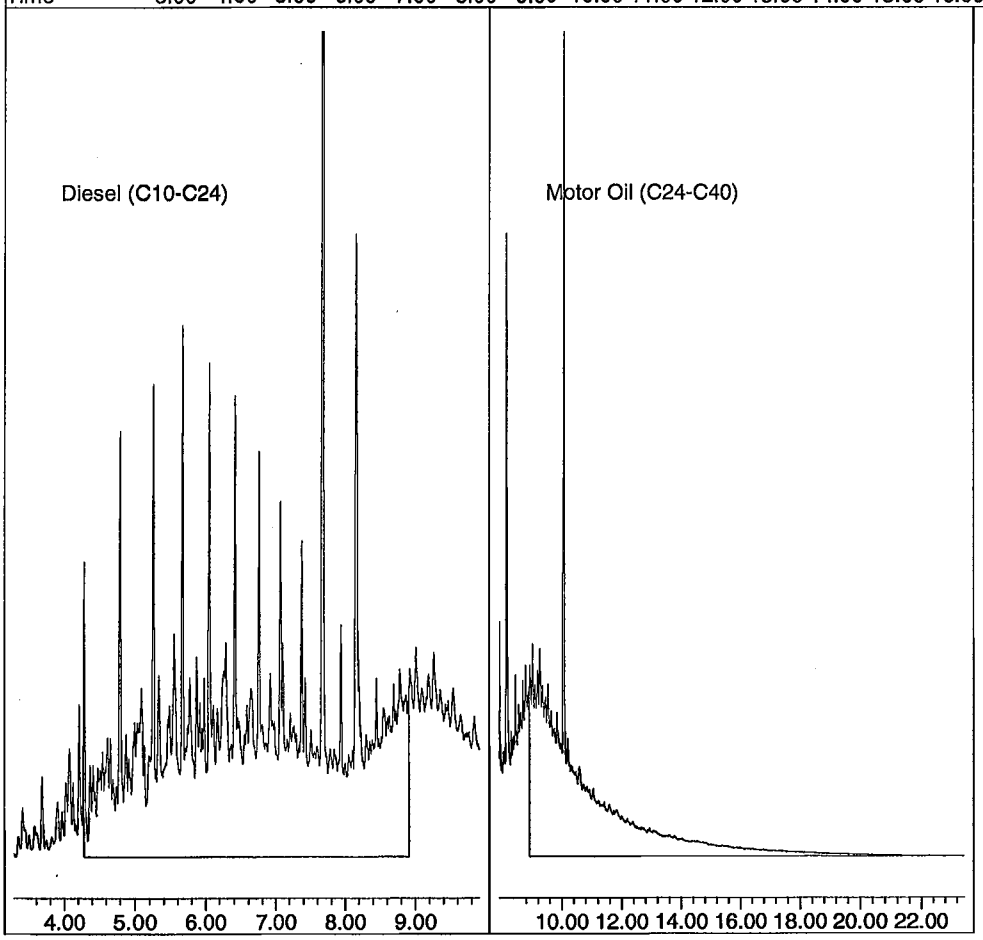
Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.
1213032.D DOC1212.M Wed Dec 15 15:03:52 2021

Data File: G:\APOLLO\DATA\211213\1213032.D
Sample : DMO STD DF2 12/09/21





TPH Extractables
DOC1212

Form 7
Continuing Calibration

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

SDG No:
Date Analyzed: 12/15/2021
Instrument: Apollo
Initial Cal. Date: 12/12/2021
Data File: 1213056.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C24)	2932900	2144990	27	HATML	3.7
2	HBTM	Motor Oil (C24-C40)	2024600	1395970	31	HBTML	6.0
3	SA	Ortho-Terphenyl(S)	2506260	2594390	3.5	SA	
4	SA	Octacosane(S)	1810340	1967960	8.7	SA	
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23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			17.6		

Quantitation Report (Not Reviewed)

Data File : G:\APOLLO\DATA\211213\1213056.D Vial: 56
Acq On : 12-15-21 2:44:15 Operator: KA
Sample : DMO STD DF2 12/09/21 Inst : Apollo
Misc : Water Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 15 8:13 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

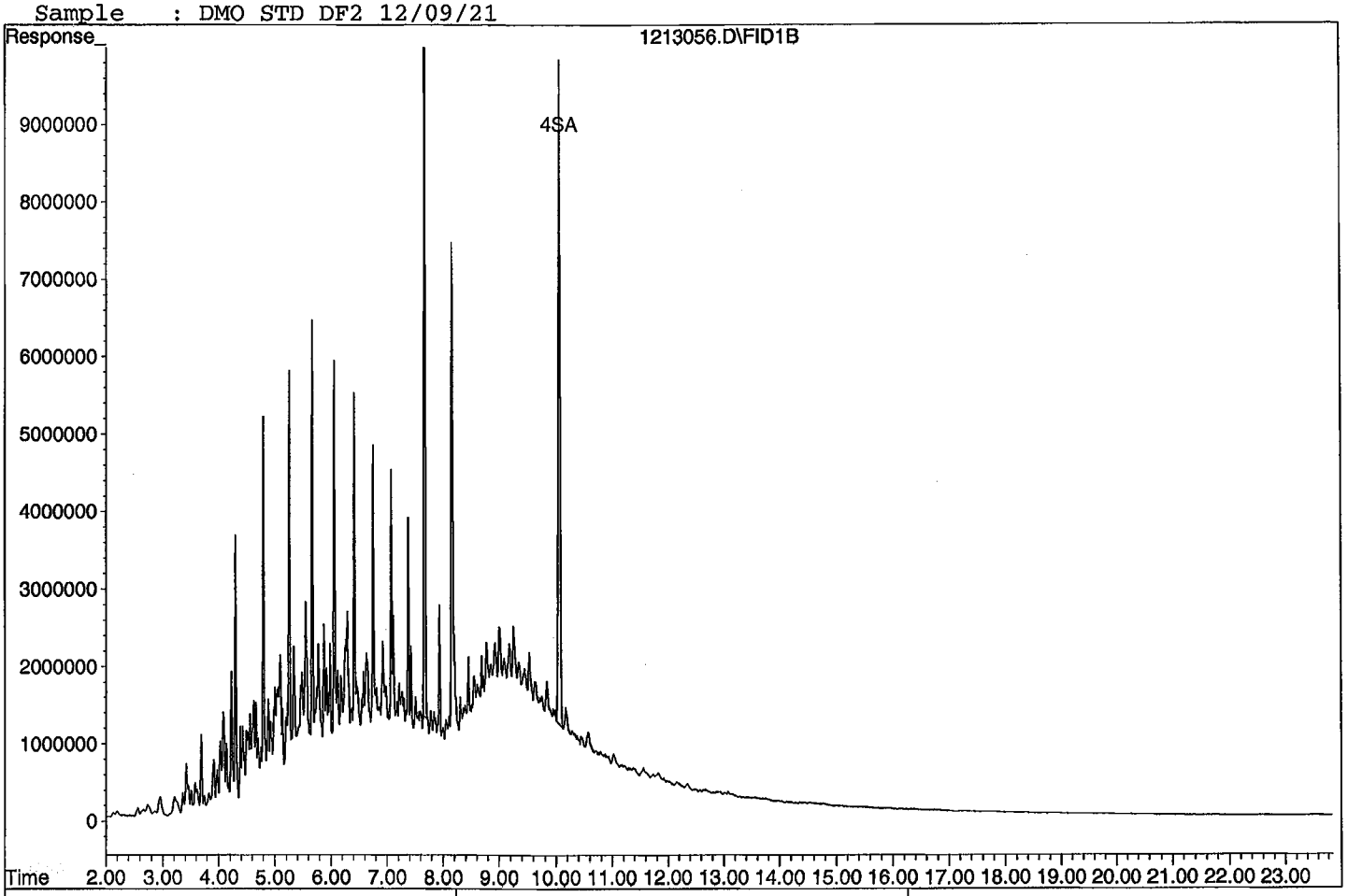
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

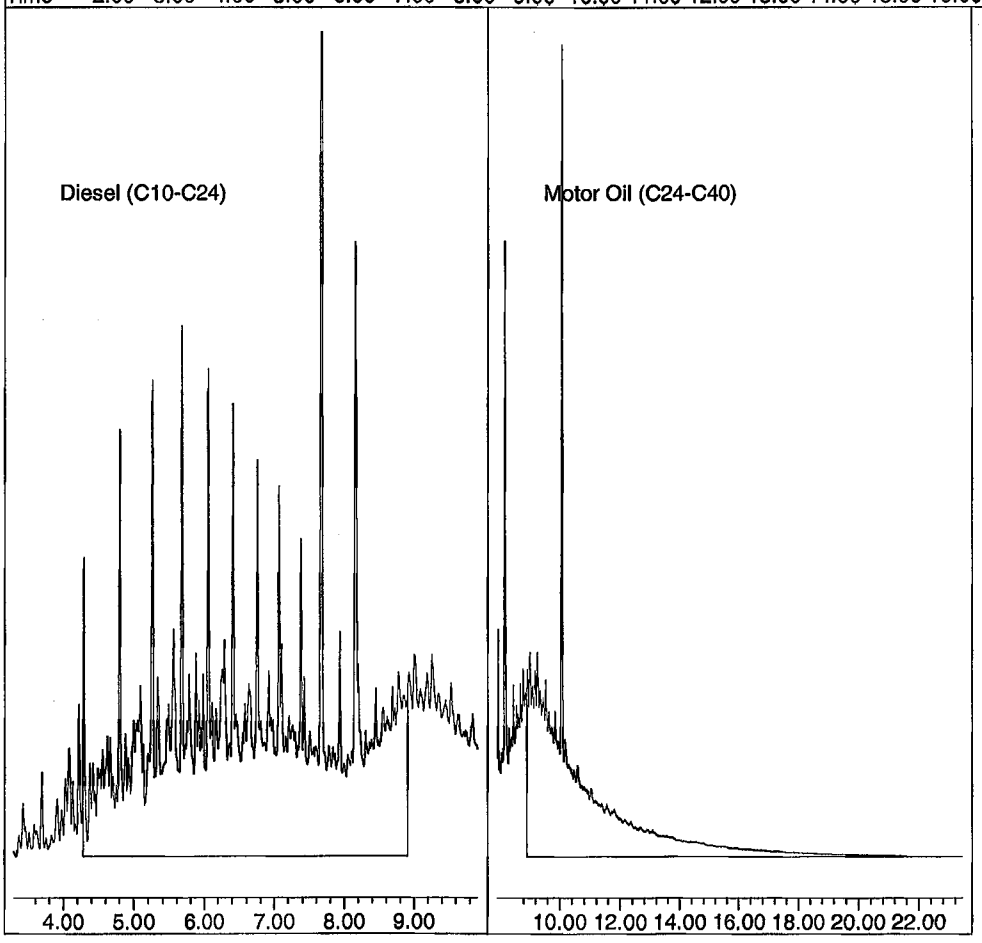
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	259439206	51.758 ppb
Surrogate Spike 30.000	Recovery =		172.53%
4) SA Octacosane(S)	10.06	196796370	54.353 ppb
Surrogate Spike 30.000	Recovery =		181.18%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	4289971329	1036.736 ppb
2) HBTM Motor Oil (C24-C40)	15.67	2791941794	1059.507 ppb

Target Compounds

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

Data File: G:\APOLLO\DATA\211213\1213056.D
Sample : DMO STD DF2 12/09/21





ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : G:\APOLLO\DATA\211213\1213049.D Vial: 49
Acq On : 12-14-21 23:27:31 Operator: KA
Sample : BA47137W01 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 15 14:58 2021 Quant Results File: DOC1212.RES

Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

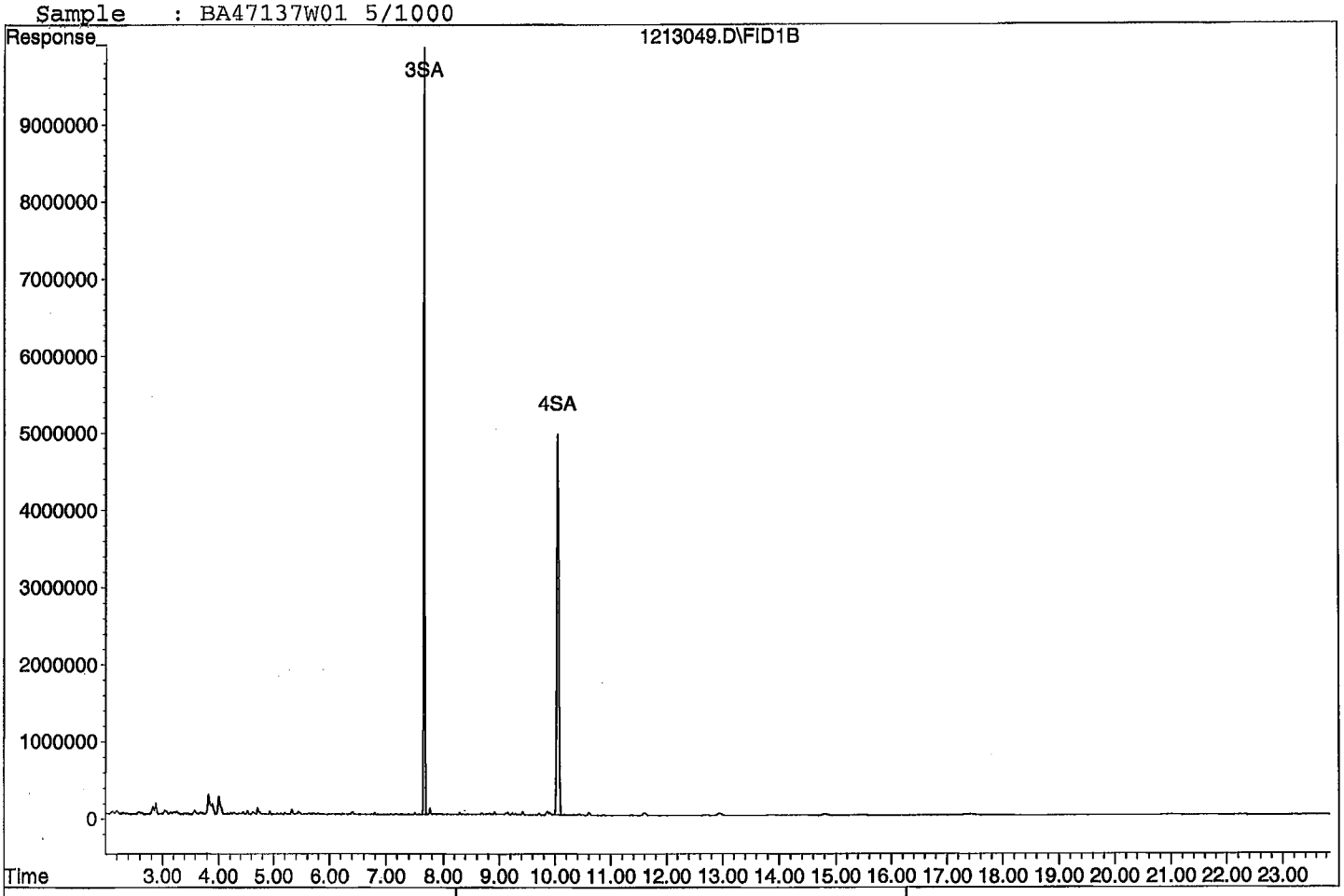
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

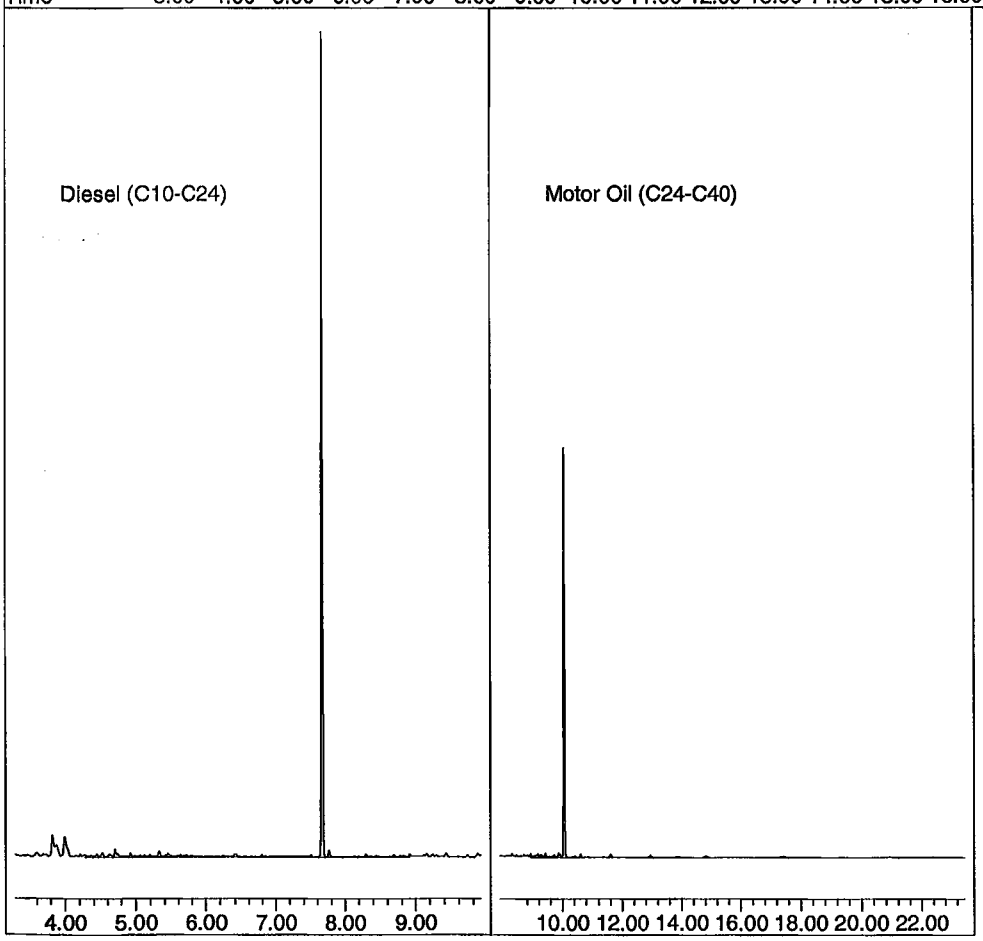
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	129378492	129.055 ppb
Surrogate Spike 150.000		Recovery =	86.04%
4) SA Octacosane(S)	10.05	115212776	159.104 ppb
Surrogate Spike 150.000		Recovery =	106.07%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	43569484	90.639 ppb
2) HBTM Motor Oil (C24-C40)	15.67	42485446	133.150 ppb
Target Compounds			

(f)=RT Delta > 1/2 Window

(m)=manual int.
1213049.D DOC1212.M Wed Dec 15 15:03:59 2021

Data File: G:\APOLLO\DATA\211213\1213049.D
Sample : BA47137W01 5/1000





Quantitation Report (QT Reviewed)

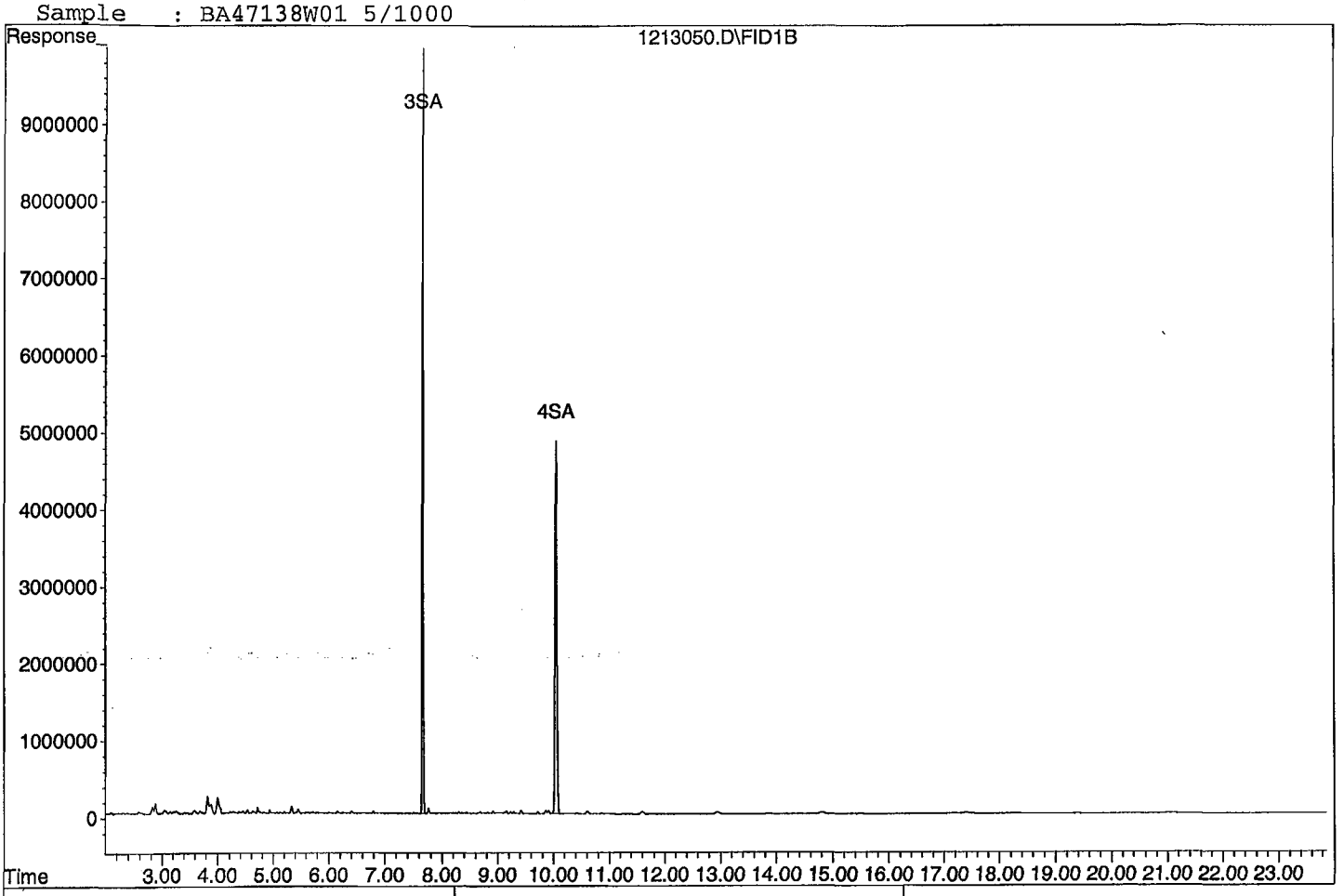
Data File : G:\APOLLO\DATA\211213\1213050.D Vial: 50
Acq On : 12-14-21 23:55:38 Operator: KA
Sample : BA47138W01 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 15 14:58 2021 Quant Results File: DOC1212.RES

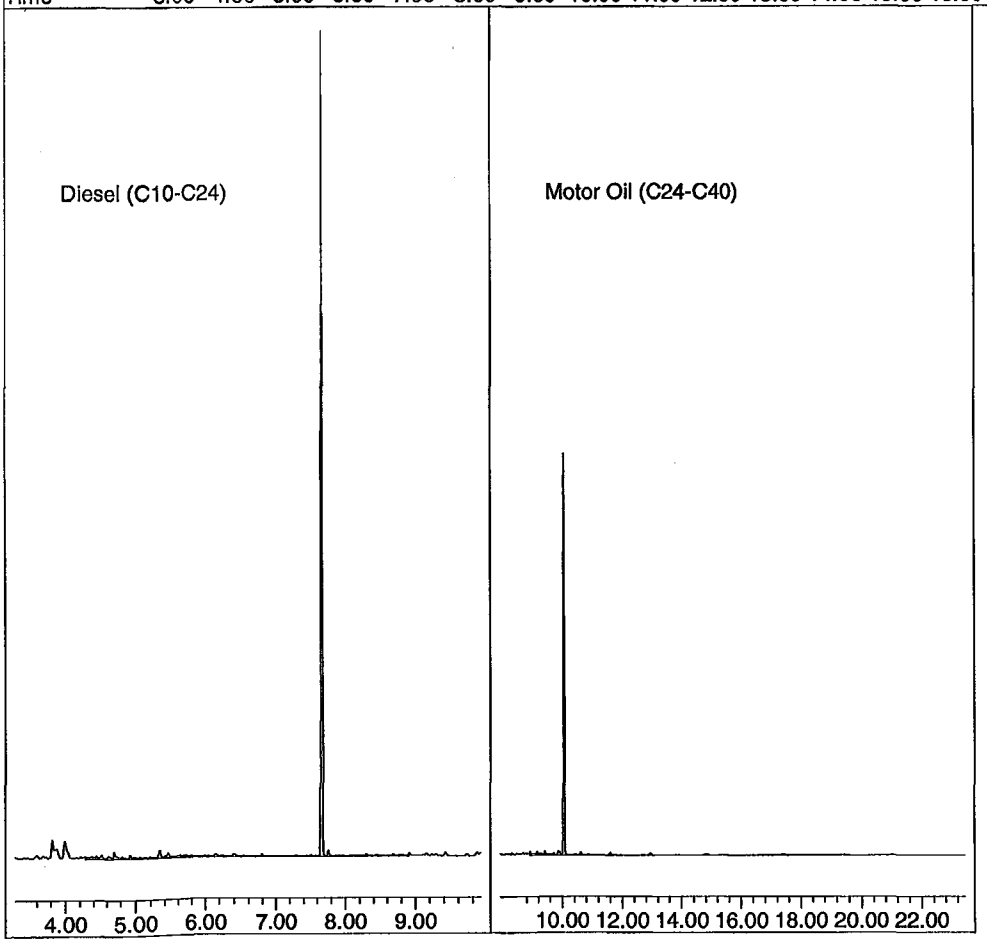
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Qrtho-Terphenyl(S)	7.67	125005429	124.693 ppb
Surrogate Spike 150.000		Recovery =	83.13%
4) SA Octacosane(S)	10.05	111760277	154.336 ppb
Surrogate Spike 150.000		Recovery =	102.89%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	47728440	95.628 ppb
2) HBTM Motor Oil (C24-C40)	15.67	36619893	122.132 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211213\1213050.D
Sample : BA47138W01 5/1000





Quantitation Report (QT Reviewed)

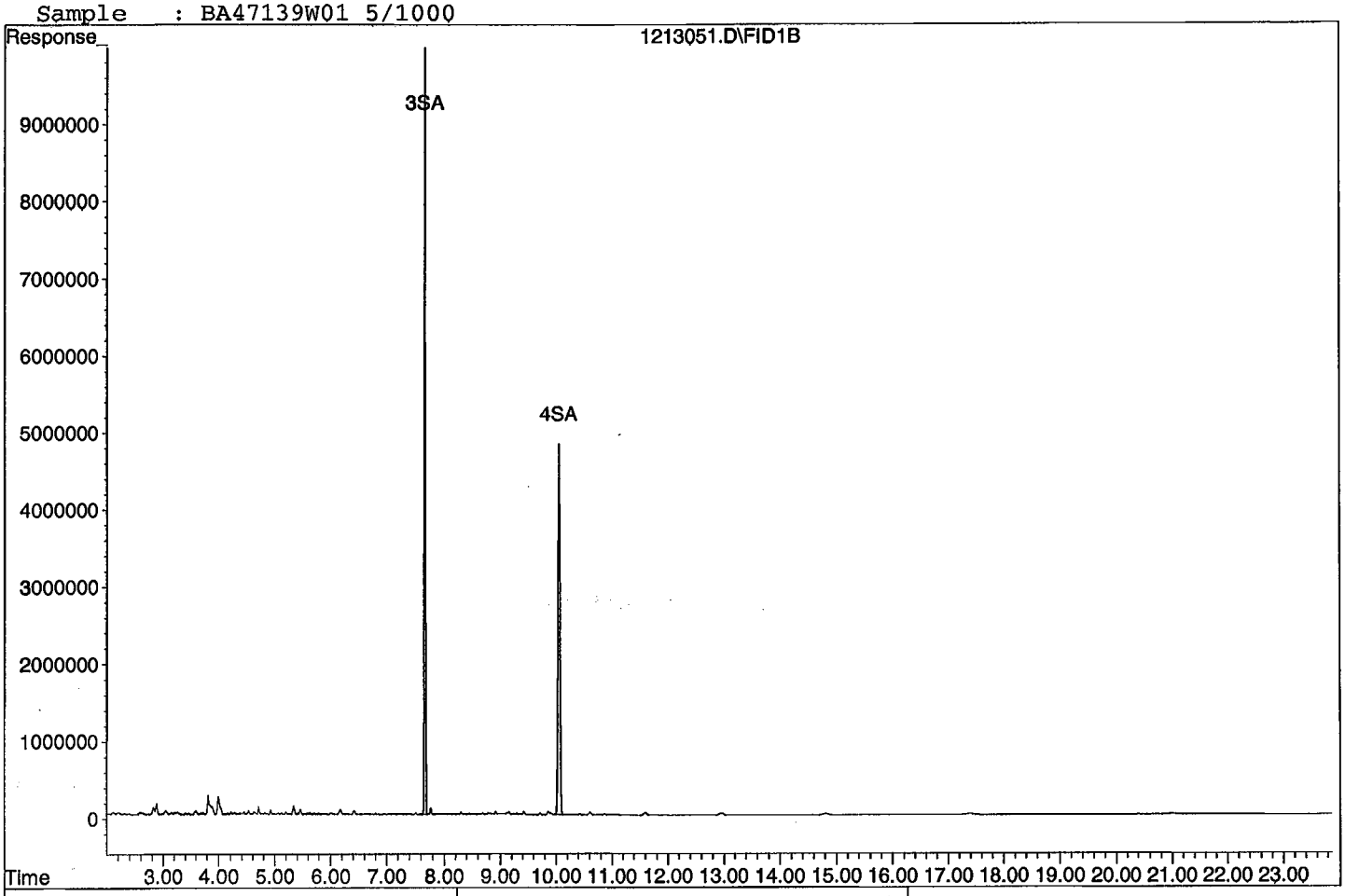
Data File : G:\APOLLO\DATA\211213\1213051.D Vial: 51
Acq On : 12-15-21 0:23:47 Operator: KA
Sample : BA47139W01 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 15 14:58 2021 Quant Results File: DOC1212.RES

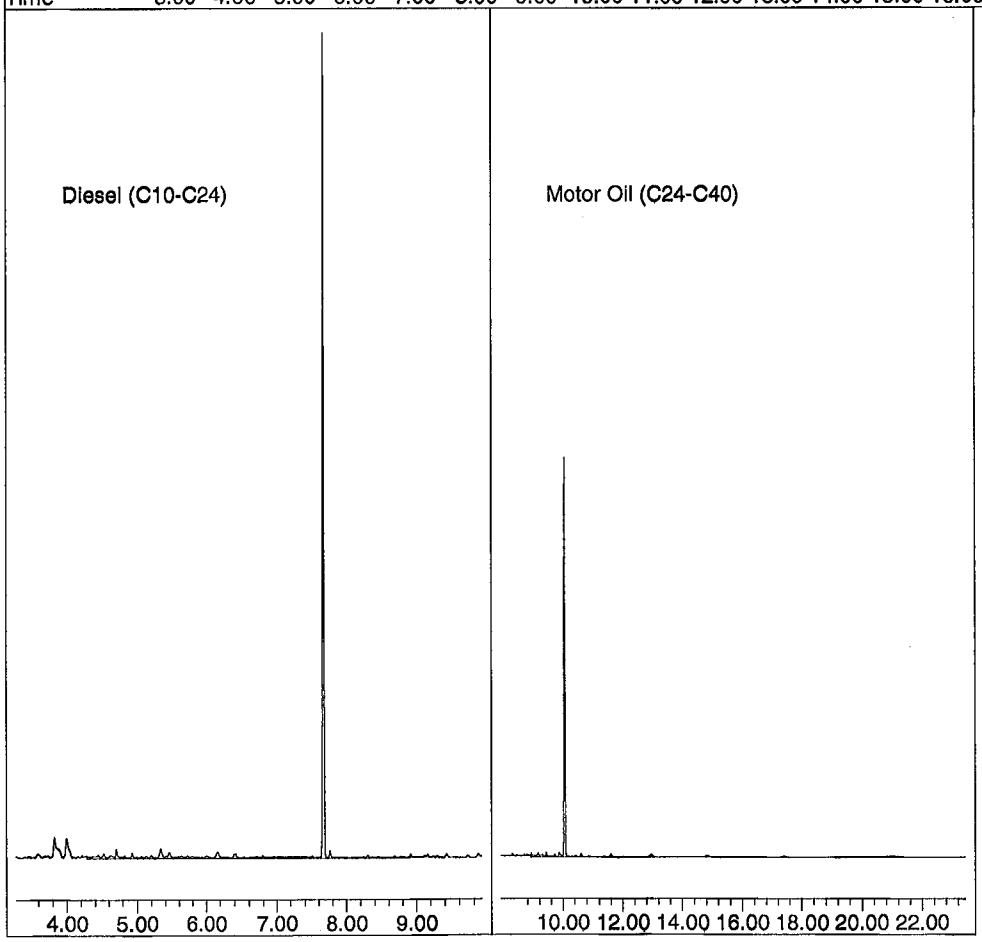
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	125782440	125.468 ppb
Surrogate Spike 150.000		Recovery =	83.65%
4) SA Octacosane(S)	10.05	112322849	155.113 ppb
Surrogate Spike 150.000		Recovery =	103.41%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	51425929	100.062 ppb
2) HBTM Motor Oil (C24-C40)	15.67	35967262	120.907 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211213\1213051.D
Sample : BA47139W01 5/1000





Quantitation Report (QT Reviewed)

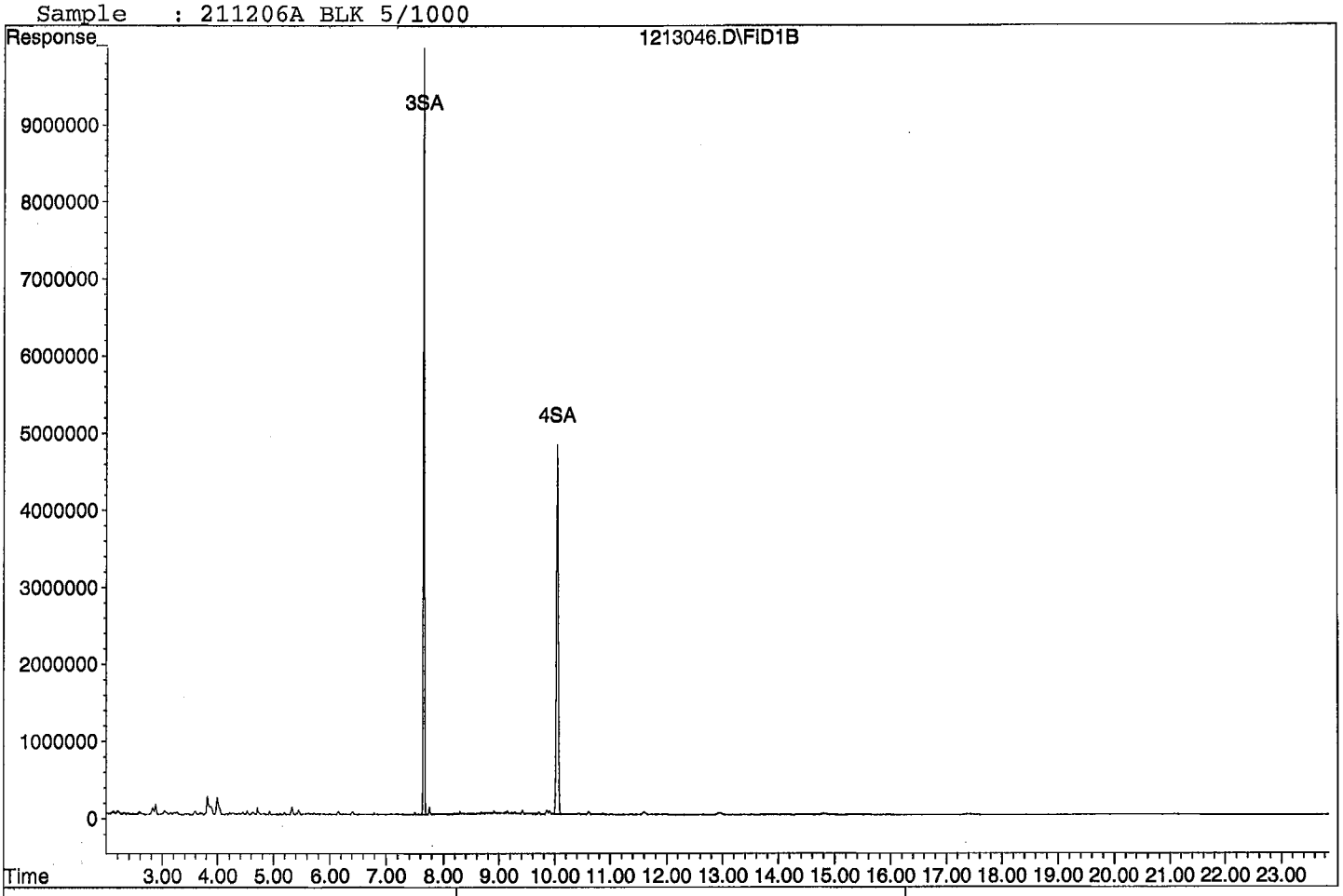
Data File : G:\APOLLO\DATA\211213\1213046.D Vial: 46
Acq On : 12-14-21 22:03:12 Operator: KA
Sample : 211206A BLK 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 15 14:58 2021 Quant Results File: DOC1212.RES

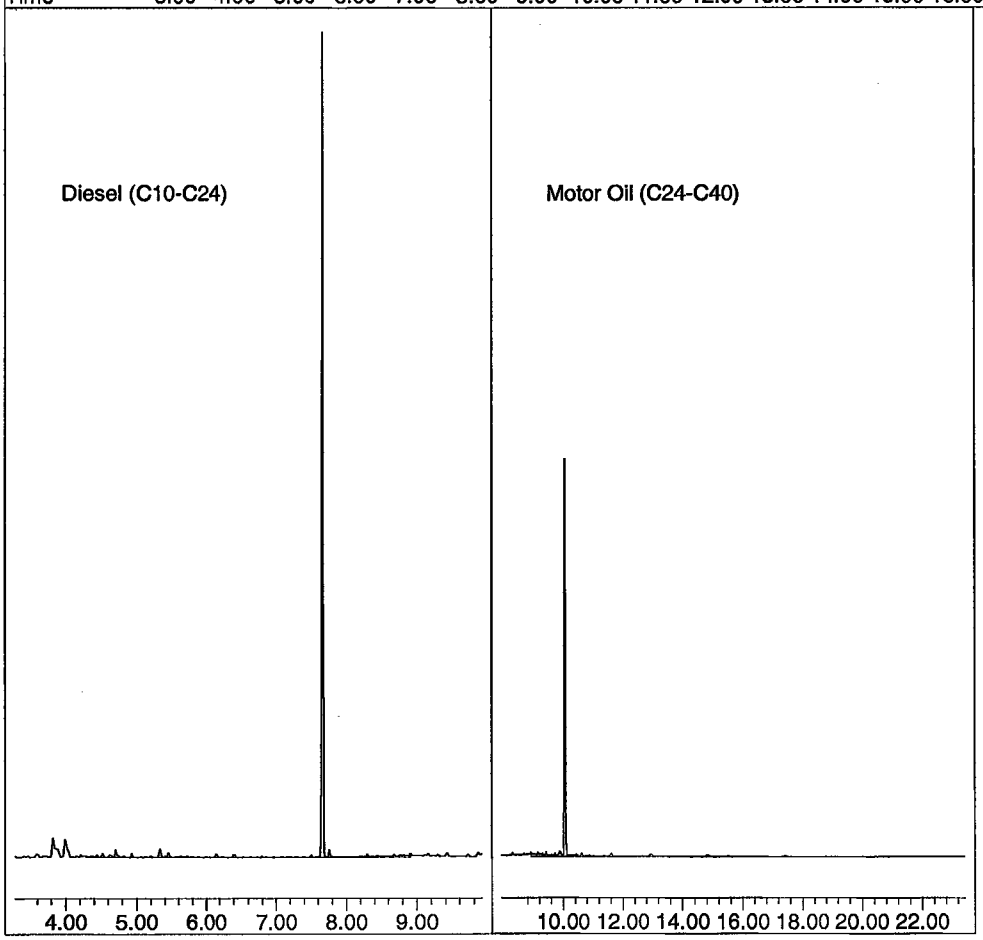
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	123251855	122.944 ppb
Surrogate Spike 150.000		Recovery =	81.96%
4) SA Octacosane(S)	10.05	108312375	149.575 ppb
Surrogate Spike 150.000		Recovery =	99.72%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	28037038	72.010 ppb
2) HBTM Motor Oil (C24-C40)	15.67	56242046	158.989 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211213\1213046.D
Sample : 211206A BLK 5/1000





Quantitation Report (QT Reviewed)

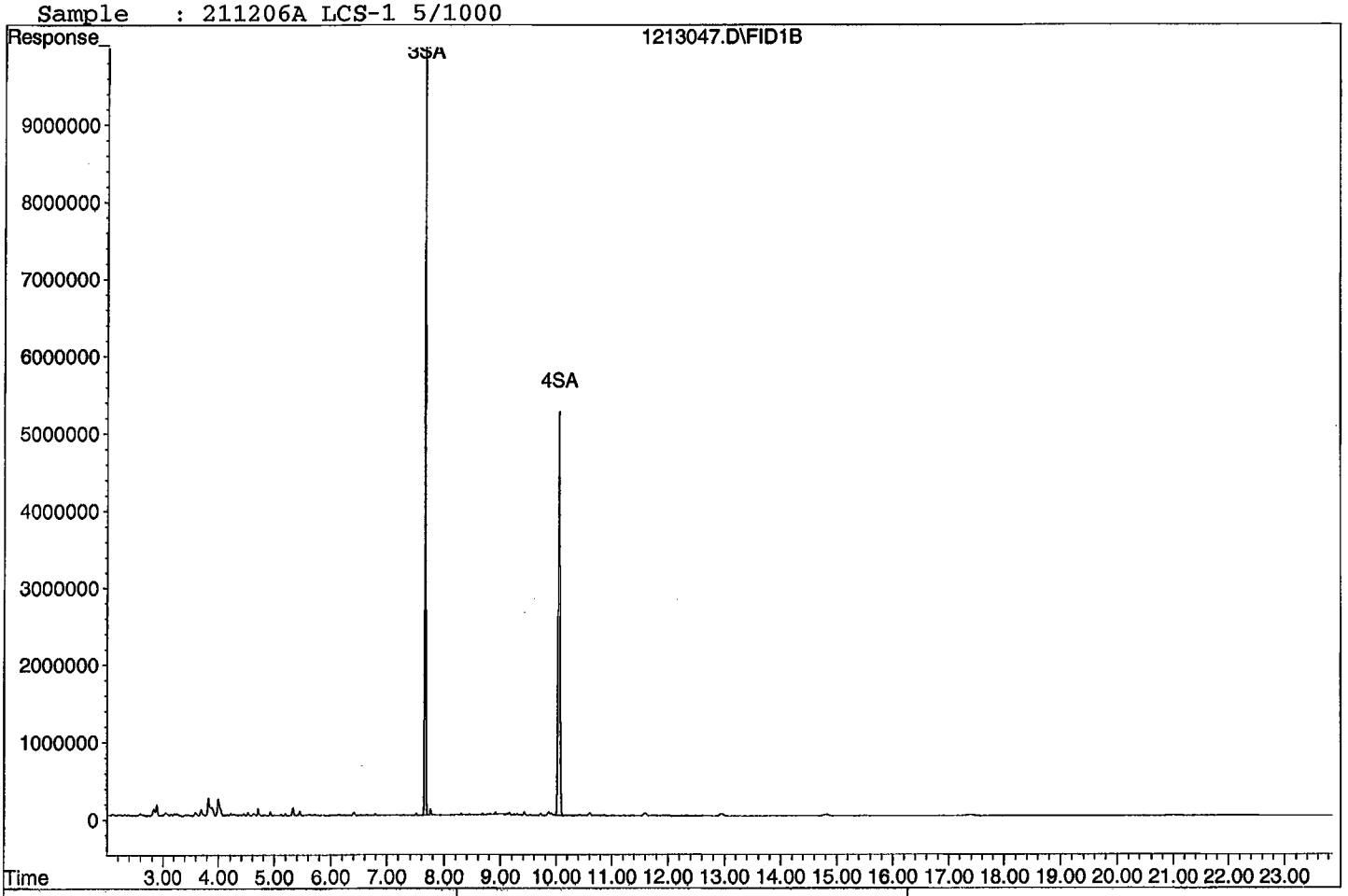
Data File : G:\APOLLO\DATA\211213\1213047.D Vial: 47
Acq On : 12-14-21 22:31:18 Operator: KA
Sample : 211206A LCS-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 15 14:58 2021 Quant Results File: DOC1212.RES

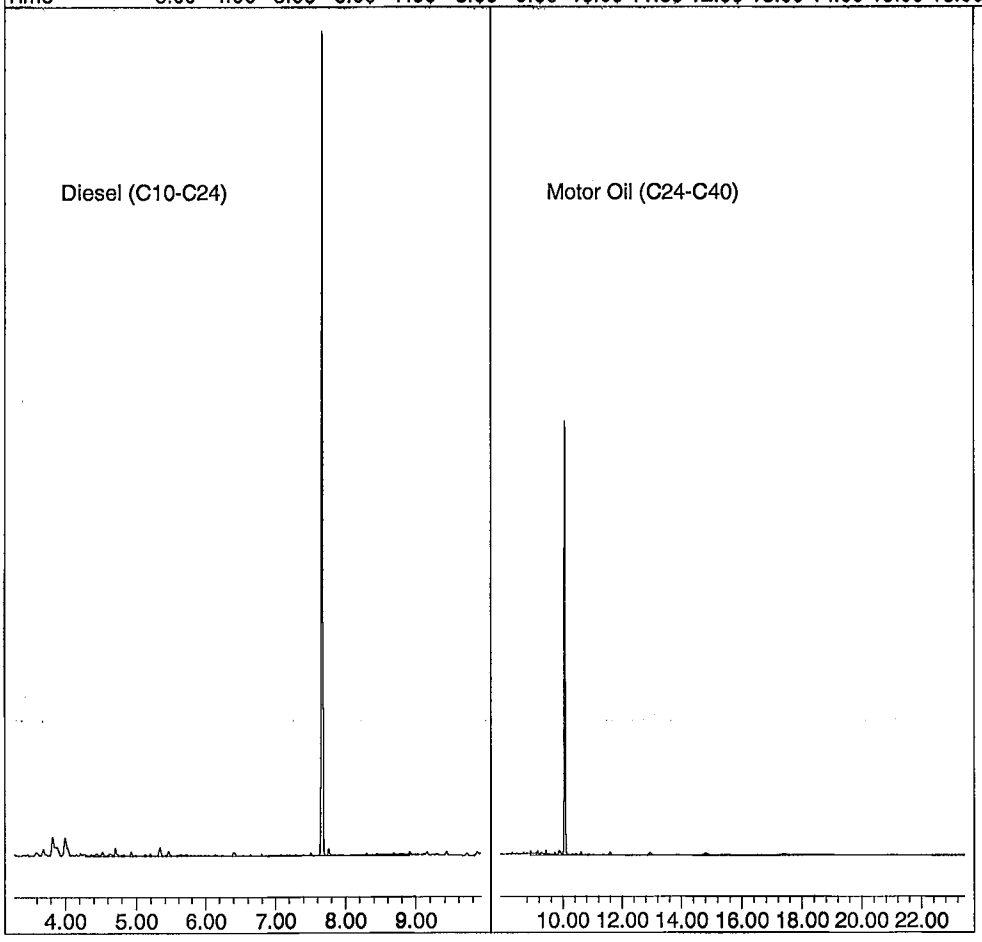
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	132819430	132.488 ppb
Surrogate Spike 150.000		Recovery =	88.33%
4) SA Octacosane(S)	10.05	118254989	163.305 ppb
Surrogate Spike 150.000		Recovery =	108.87%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	31826039	76.555 ppb
2) HBTM Motor Oil (C24-C40)	15.67	39698772	127.916 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211213\1213047.D
Sample : 211206A LCS-1 5/1000





Quantitation Report (QT Reviewed)

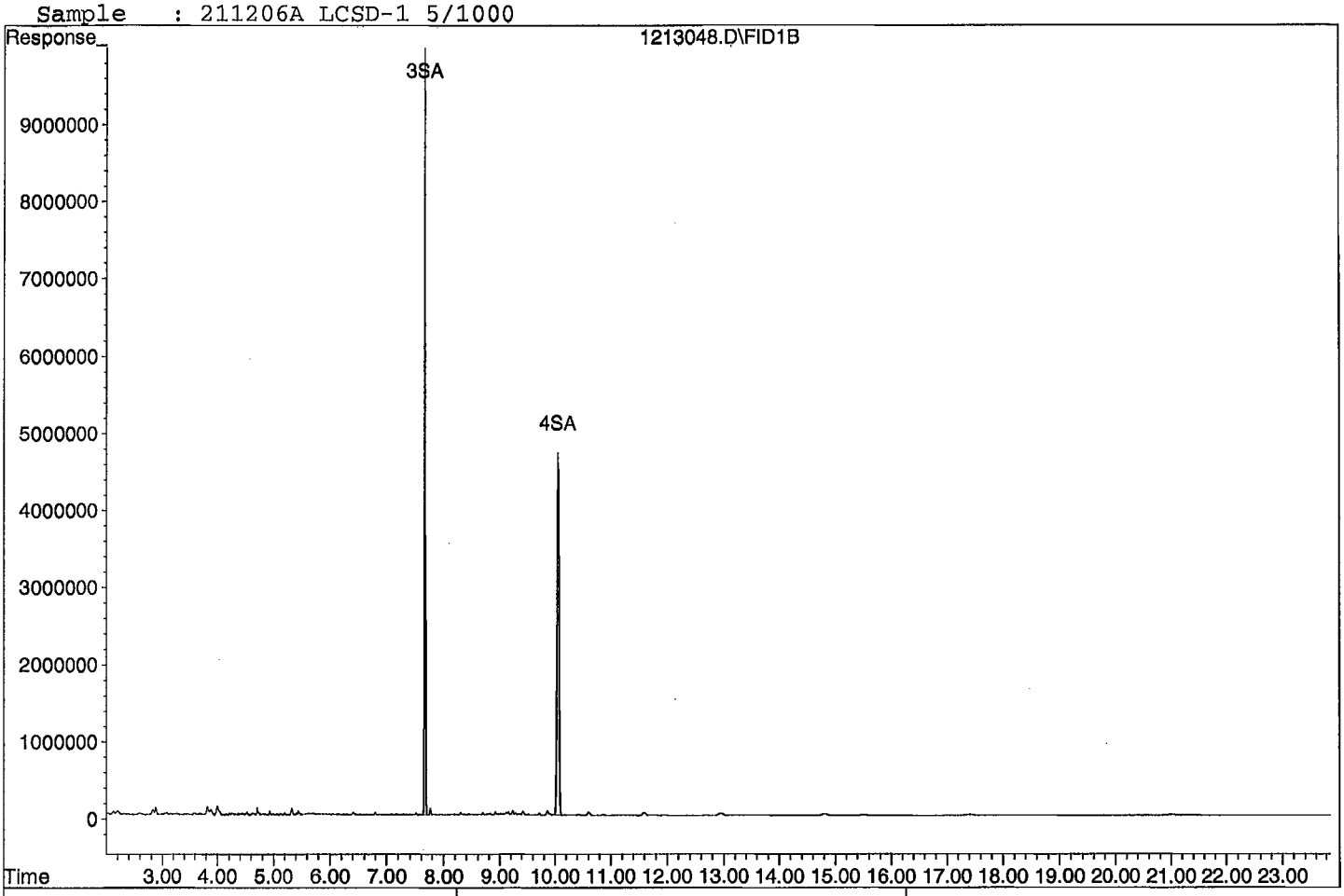
Data File : G:\APOLLO\DATA\211213\1213048.D Vial: 48
Acq On : 12-14-21 22:59:24 Operator: KA
Sample : 211206A LCSD-1 5/1000 Inst : Apollo
Misc : Water Multiplr: 5.00
IntFile : events.e
Quant Time: Dec 15 14:58 2021 Quant Results File: DOC1212.RES

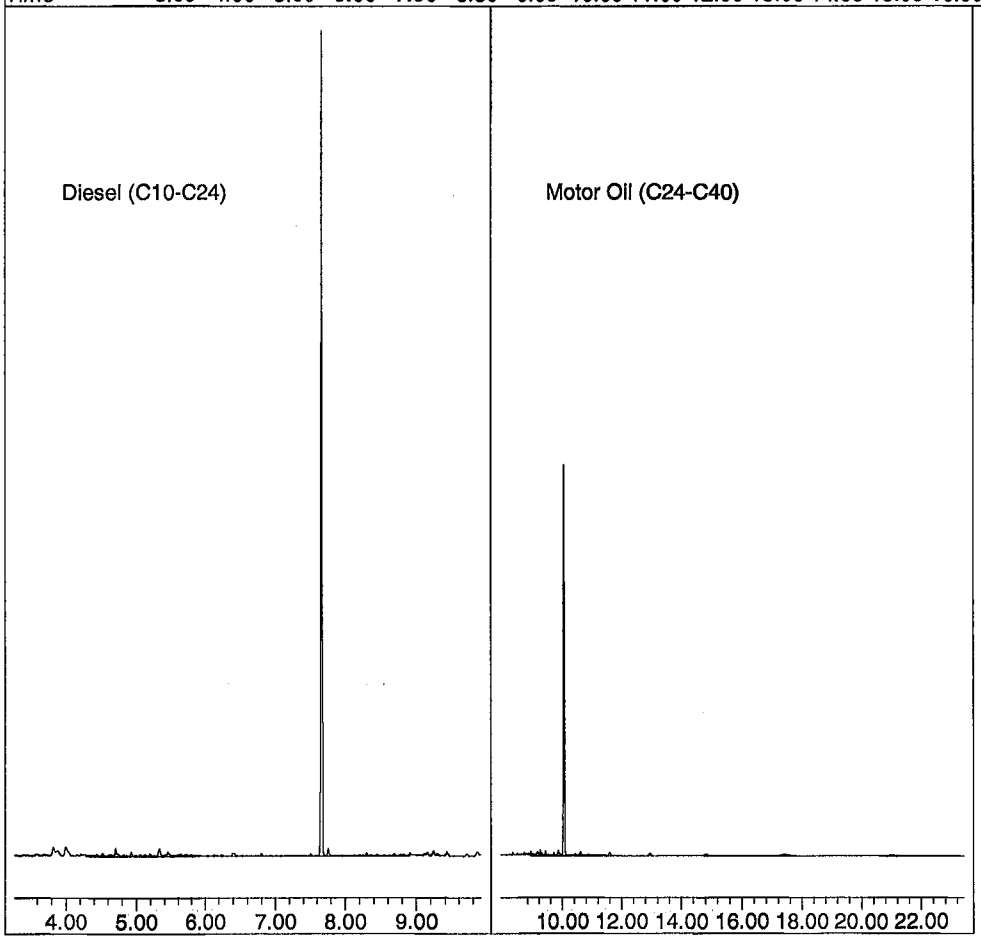
Method : G:\APOLLO\DATA\211213\DOC1212.M (Chemstation Integrator)
Title : 8015 B&C
Last Update : Tue Dec 14 08:59:18 2021
Response via : Multiple Level Calibration

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Ortho-Terphenyl(S)	7.67	126437737	126.122 ppb
Surrogate Spike 150.000		Recovery =	84.08%
4) SA Octacosane(S)	10.05	112663346	155.583 ppb
Surrogate Spike 150.000		Recovery =	103.72%
Target Compounds			
1) HATM Diesel (C10-C24)	6.60	37975846	83.931 ppb
2) HBTM Motor Oil (C24-C40)	15.67	39054410	126.705 ppb
Target Compounds			

Data File: G:\APOLLO\DATA\211213\1213048.D
Sample : 211206A LCSD-1 5/1000





Diesel / Motor Oil Calibration Curve

Prepared: 12/12/2021
Expires: 5/31/2026
Methylene Chloride Lot No. 61117

Prepared By (Initials): KA

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Conc. (ug/mL)	APPL Mix Name	Reference to APPL Prep Date and Lot #'s	Exp. Date	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel / Motor Oil - 2	APPL	10	Diesel / Motor Oil - 1	Perp'd:12/09/21 A0164586-53276, 53175, 53277 and 53276, A0168842-53280, and CL16893-53203	See man. Exp date	11/30/2027 10/31/2027 5/31/2026 3/31/28	100uL	200uL	MC	5
Diesel / Motor Oil - 3		50	Diesel / Motor Oil - 2				200uL	1mL	MC	10
Diesel / Motor Oil Calibration STD	Restek	2,000	Diesel / Motor Oil - 3				25uL	1mL	MC	50
			Diesel / Motor Oil - 4				125uL	1mL	MC	250
			Diesel / Motor Oil - 5				500uL	1mL	MC	1000
			Diesel / Motor Oil - 6				750uL	1mL	MC	1500
			Diesel / Motor Oil - 7				100uL	100uL	N/A	2,000

Diesel / Motor Oil Second Source

Prepared: 10/28/2021
Expires: 10/28/2024
Methylene Chloride Lot No. 61117

Prepared By (Initials): KA

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2 Second Source	Phenova	AL0-101287	50,000	**CL16477-52980**	**See man. Exp date**	**2/28/2027**	50uL	10mL	MC	250
Motor Oil Second Source	Absolute	51094	50,000	**102819-52981**		**10/28/2024**	50uL			

Diesel / Motor Oil Calibration Standard

Prepared: 12/9/2021 **Prepared By (Initials): KA**

Expires: 5/31/2026

Methylene Chloride Lot No. 61117

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Diesel Fuel #2	Restek	31258	50,000	**A0164586-53276, 53275, 53277, and 53278**	**See man. Exp date**	**10/31/2027**	400uL	10mL	MC	2000
Motor Oil	Restek	31464	50,000	**A0168842-52820**		**3/31/2028**	400uL			2000
THC Surrogate	Phenova	ALO-130161	600	**CL16893-53203**		**5/31/2026**	1666uL			100

THC Surrogate

Prepared: 11/23/2021 **KA**

Expires: 5/31/2026

Initial Standard Information							Final Standard			
Name of Initial Standard (QAU Label)	Supplier	Supplier Part No.	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr.)	Exp. Date (Manufacturer)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
O-terphenyl / Octacosane Mix	Phenova	ALO-130161	600	**CL16893-53204**	**See ma. Date**	**5/31/2026**	N/A	N/A	N/A	600

Organic Extraction Worksheet

Method	Continuous Liq/Liq TPH-Diesel/MQ 3520C	Extraction Set	211206A	Extraction Method	LIQ005	Units	mL

Spiked ID 1		Surrogate ID 1	THC Surrogate 11-23-21 11-23-21		
Spiked ID 2		Surrogate ID 2			
Spiked ID 3		Surrogate ID 3			
Spiked ID 4		Surrogate ID 4			
Spiked ID 5		Surrogate ID 5			
Spiked ID 6		Sufficient Vol for Matrix QC:	NO		
Spiked ID 7		Ext. Start Time:	12/06/21 9:45		
Spiked ID 8		Ext. End Time:	12/07/21 6:25		
		GC Requires Extract By:			

pH1	2	12/06/21 8:15	Water Bath Temp 1 °C	42/41.1 °C
pH2			Water Bath Temp 2 °C	34/35.1
pH3			Water Bath Temp 3 °C	29/28.5 °C

Spiked By: SR **Date** 12/6/2021 **Witnessed By:** AGM **Date** 12/6/2021

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	211206A Blk				0.250	1	1000	5	2	12/06/21 8:20	
						equip	E-HP3 E-WB2				
2	211206A LCS-1				0.250	1	1000	5	2	12/06/21 8:20	
						equip	E-HP4 E-WB3				
3	211206A LCSD-1				0.250	1	1000	5	2	12/06/21 8:20	
						equip	E-HP6 E-WB1				
4	BA47137	BA47137W01			0.250	1	1000	5	2	12/06/21 8:20	98381
						equip	E-HP7 E-WB2				
5	BA47138	BA47138W01			0.250	1	1000	5	2	12/06/21 8:20	98381
						equip	E-HP8 E-WB3				
6	BA47139	BA47139W01			0.250	1	1000	5	2	12/06/21 8:20	98381
						equip	E-HP9 E-WB1				

Solvent and Lot#	
1+1 HCL (5mLs)	60358
PH Strips	HC160347
Dicholormethane	61117
Filter Paper	4001202
Sodium Sulfate	2021071206

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	CW
Date	12/7/21
Time	13:35
Refrigerator	HOBART

	Technician's Initials
Scanned By	SR
Sample Preparation	SR
Extraction	SR
Concentration	AGM

Modified	12/8/2021 6:44:49 AM

Reviewed By: KY **Date** 12/7/2021

Injection Log

Directory: G:\APOLLO\DATA\211212\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	1212006.D	1	DMO Calibration 1 12/12/21	Water	12-12-21 16:08:57
2	5	1212007.D	1	DMO Calibration 2 12/12/21	Water	12-12-21 16:37:14
3	6	1212008.D	1	DMO Calibration 3 12/12/21	Water	12-12-21 17:05:32
4	7	1212009.D	1	DMO Calibration 4 12/12/21	Water	12-12-21 17:33:48
5	8	1212010.D	1	DMO Calibration 5 12/12/21	Water	12-12-21 18:02:04
6	9	1212011.D	1	DMO Calibration 6 12/12/21	Water	12-12-21 18:30:20
7	10	1212012.D	1	DMO Calibration 7 12/12/21	Water	12-12-21 18:58:36
8	11	1212013.D	1	DMO Second Source 10/28/21	Water	12-12-21 19:26:51
9	32	1213032.D	1	DMO STD DF2 12/09/21	Water	12-14-21 15:29:14
10	46	1213046.D	5	211206A BLK 5/1000	Water	12-14-21 22:03:12
11	47	1213047.D	5	211206A LCS-1 5/1000	Water	12-14-21 22:31:18
12	48	1213048.D	5	211206A LCSD-1 5/1000	Water	12-14-21 22:59:24
13	49	1213049.D	5	BA47137W01 5/1000	Water	12-14-21 23:27:31
14	50	1213050.D	5	BA47138W01 5/1000	Water	12-14-21 23:55:38
15	51	1213051.D	5	BA47139W01 5/1000	Water	12-15-21 0:23:47
16	56	1213056.D	1	DMO STD DF2 12/09/21	Water	12-15-21 2:44:15

ORGANICS
Calibration Data

PAH by GCMS SIM
EPA 8270 SIM

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 10/19/2021
Matrix: Instrument: KYLO Initials: LS

		Compound	0.1	0.2	0.5	1	5	10	50	100			Avg	%RSD	Type	r^2	Q	MRF
			1019K002.D	1019K003.D	1019K004.D	1019K005.D	1019K006.D	1019K007.D	1019K008.D	1019K009.D								
1	I	Napthalene-D8(IS)																
2	TM	Naphthalene	1.428	1.402	1.354	1.336	1.308	1.289	1.172	1.100			1.3	8.6	TM			0.700
3	S	2-Methylnaphthalene-D10 (2M	1.359	1.337	1.324	1.305	1.316	1.159	1.222	1.192			1.3	5.9	S			
4	TM	2-Methylnaphthalene	0.7868	0.7804	0.7756	0.7764	0.7886	0.7810	0.7175	0.6825			0.76	5.1	TM			0.400
5	TM	1-Methylnaphthalene	0.8005	0.7905	0.7931	0.7961	0.7922	0.7806	0.7122	0.6797			0.77	6.0	TM			
6	I	Acenaphthene-D10(IS)																
7	TM	Acenaphthylene	5.288	5.373	5.323	5.258	5.439	5.405	4.863	4.456			5.2	6.6	TM			0.900
8	*TM	Acenaphthene	1.497	1.444	1.402	1.372	1.398	1.381	1.266	1.207			1.4	6.8	*TM			0.900
9	TM	Fluorene	1.615	1.645	1.600	1.590	1.642	1.640	1.521	1.456			1.6	4.2	TM			0.900
10	I	Phenanthrene-D10(IS)																
11	TM	Phenanthrene	1.510	1.398	1.383	1.377	1.403	1.374	1.309	1.253			1.4	5.4	TM			0.700
12	TM	Anthracene	1.298	1.273	1.300	1.300	1.352	1.349	1.285	1.240			1.3	2.8	TM			0.700
13	S	Fluoranthene-D10 (FRT)	2.023	1.976	1.895	1.904	2.032	1.918	1.953	1.890			1.9	2.9	S			
14	*TM	Fluoranthene	2.169	2.135	2.136	2.147	2.255	2.226	2.086	1.944			2.1	4.4	*TM			0.600
15	I	Chrysene-D12(IS)																
16	TM	Pyrene	1.986	2.033	1.960	1.958	1.948	1.927	1.782	1.720			1.9	5.6	TM			0.600
17	TM	Benz (a) anthracene	1.473	1.441	1.379	1.381	1.401	1.420	1.370	1.344			1.4	3.0	TM			0.800
18	TM	Chrysene	1.754	1.672	1.608	1.574	1.554	1.516	1.410	1.375			1.6	8.1	TM			0.700
19	TML	Indeno (1,2,3-cd) pyrene	1.687	1.326	1.360	1.404	1.015	1.052	1.169	1.168			1.3	17	TM	1.000		0.500
20	I	Perylene-D12(IS)																
21	TM	Benzo (b) fluoranthene	1.268	1.292	1.301	1.356	1.511	1.514	1.537	1.485			1.4	8.1	TM			0.700
22	TM	Benzo (k) fluoranthene	1.593	1.558	1.636	1.632	1.670	1.730	1.578	1.484			1.6	4.6	TM			0.700
23	*TM	Benzo (a) pyrene	1.254	1.223	1.224	1.265	1.442	1.484	1.454	1.383			1.3	8.3	*TM			0.700
24	TM	Dibenz (a,h) anthracene	1.360	1.209	1.221	1.273	1.398	1.395	1.399	1.353			1.3	6.0	TM			0.400
25	TM	Benzo (g,h,i) perylene	1.457	1.403	1.410	1.405	1.496	1.517	1.462	1.394			1.4	3.2	TM			0.500
26																		
27																		
28																		
29																		
30																		
31																		
32																		
33																		
34																		
35																		

Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K002.D Vial: 2
Acq On : 19 Oct 21 14:09 Operator: LS
Sample : 0.1 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:48 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Oct 19 16:47:23 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	3.92	136	10962	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	5.86	164	5295	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.56	188	8379	2.50000 ppb		0.00
15) Chrysene-D12(IS)	10.63	240	9693	2.50000 ppb		0.01
20) Perylene-D12(IS)	12.84	264	9009	2.50000 ppb		0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.66	152	298	0.05323 ppb		0.00
Spiked Amount 5.000			Recovery =	1.060%		
13) Fluoranthene-D10 (FRT)	8.94	212	339	0.05190 ppb		0.01
Spiked Amount 5.000			Recovery =	1.040%		
Target Compounds						Qvalue
2) Naphthalene	3.94	128	626	0.10994 ppb		99
4) 2-Methylnaphthalene	4.69	142	345	0.10338 ppb		100
5) 1-Methylnaphthalene	4.80	142	351	0.10422 ppb		99
7) Acenaphthylene	5.70	152	1120	0.10217 ppb		100
8) Acenaphthene	5.89	154	317	0.10918 ppb		99
9) Fluorene	6.49	166	342	0.10165 ppb		96
11) Phenanthrene	7.59	178	506	0.10973 ppb		100
12) Anthracene	7.65	178	435	0.09988 ppb		97
14) Fluoranthene	8.96	202	727	0.10149 ppb		98
16) Pyrene	9.22	202	770	0.10375 ppb		99
17) Benz (a) anthracene	10.62	228	571	0.10510 ppb		99
18) Chrysene	10.66	228	680	0.11258 ppb		96
19) Indeno (1,2,3-cd) pyrene	14.41	276	654	0.33399 ppb	#	88
22) Benzo (k) fluoranthene	12.21	252	574	-0.45104 ppb		97
23) Benzo (a) pyrene	12.75	252	452	-0.17190 ppb		95
24) Dibenz (a,h) anthracene	14.45	278	490	-0.04905 ppb		95
25) Benzo (g,h,i) perylene	14.71	276	525	-0.23039 ppb		98

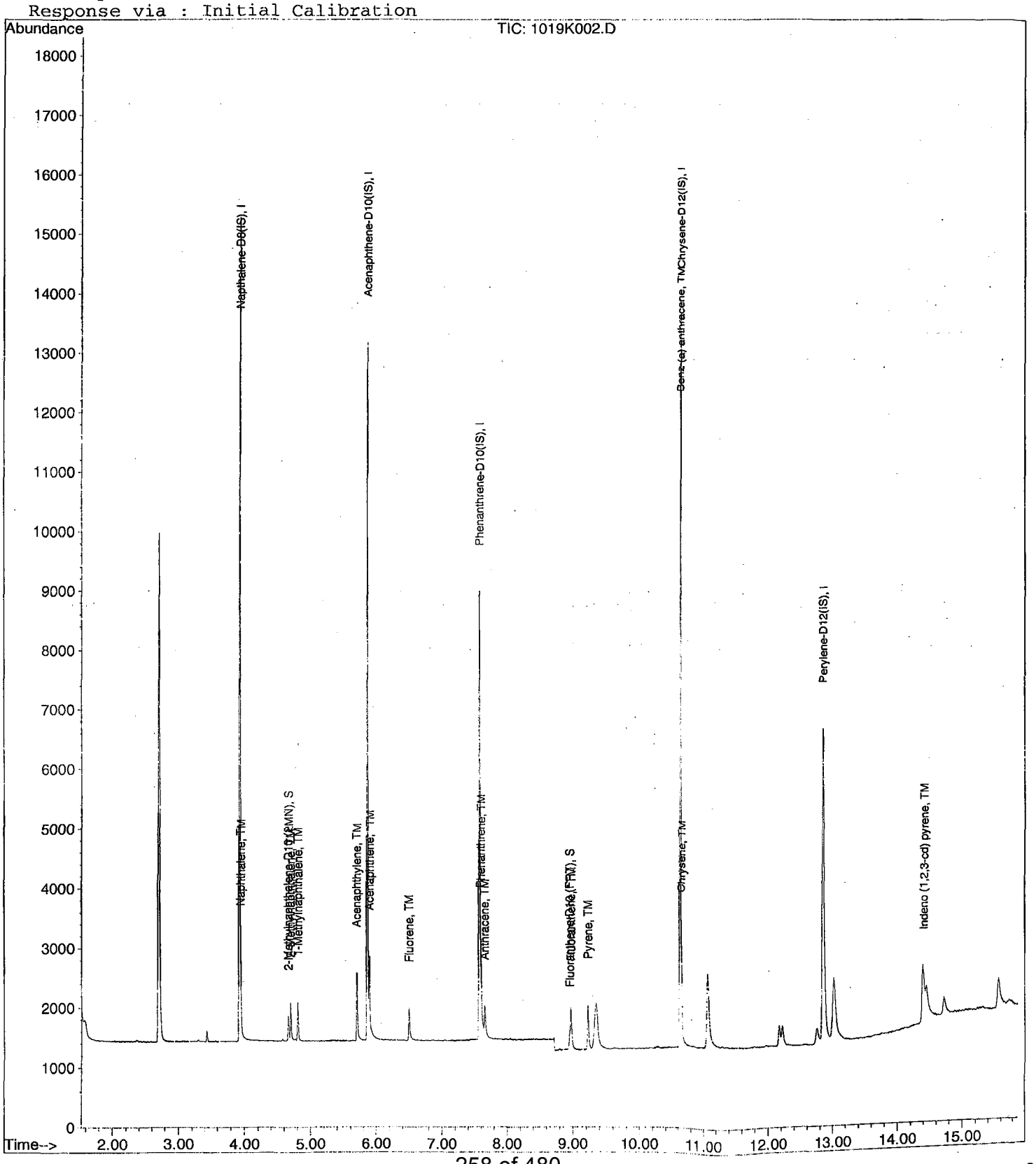
(#) = qualifier out of range (m) = manual information

Quantitation Report

Data File : M:\KYLO\DATA\211019\1019K002.D Vial: 2
Acq On : 19 Oct 21 14:09 Operator: LS
Sample : 0.1 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:48 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Nov 09 10:14:45 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K003.D Vial: 3
Acq On : 19 Oct 21 14:29 Operator: LS
Sample : 0.2 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:48 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Oct 19 16:47:23 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	3.92	136	11180	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	5.86	164	5495	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.56	188	8995	2.50000 ppb		0.00
15) Chrysene-D12(IS)	10.63	240	9881	2.50000 ppb		0.01
20) Perylene-D12(IS)	12.84	264	8688	2.50000 ppb		0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.66	152	598	0.10474 ppb		0.00
Spiked Amount 5.000			Recovery =	2.100%		
13) Fluoranthene-D10 (FRT)	8.94	212	711	0.10140 ppb		0.01
Spiked Amount 5.000			Recovery =	2.020%		
Target Compounds						Qvalue
2) Naphthalene	3.94	128	1254	0.21593 ppb		99
4) 2-Methylnaphthalene	4.69	142	698	0.20508 ppb		96
5) 1-Methylnaphthalene	4.80	142	707	0.20582 ppb		98
7) Acenaphthylene	5.69	152	2362	0.20763 ppb		100
8) Acenaphthene	5.89	154	635	0.21074 ppb		99
9) Fluorene	6.49	166	723	0.20706 ppb		100
11) Phenanthrene	7.59	178	1006	0.20323 ppb		100
12) Anthracene	7.65	178	916	0.19592 ppb		99
14) Fluoranthene	8.96	202	1536	0.19974 ppb		97
16) Pyrene	9.21	202	1607	0.21241 ppb		99
17) Benz (a) anthracene	10.62	228	1139	0.20566 ppb		98
18) Chrysene	10.66	228	1322	0.21470 ppb		99
19) Indeno (1,2,3-cd) pyrene	14.40	276	1048	0.41647 ppb	#	98
21) Benzo (b) fluoranthene	12.16	252	898	0.06057 ppb		98
22) Benzo (k) fluoranthene	12.21	252	1083	-0.34909 ppb		97
23) Benzo (a) pyrene	12.74	252	850	-0.08634 ppb		97
25) Benzo (g,h,i) perylene	14.71	276	975	-0.13423 ppb		96

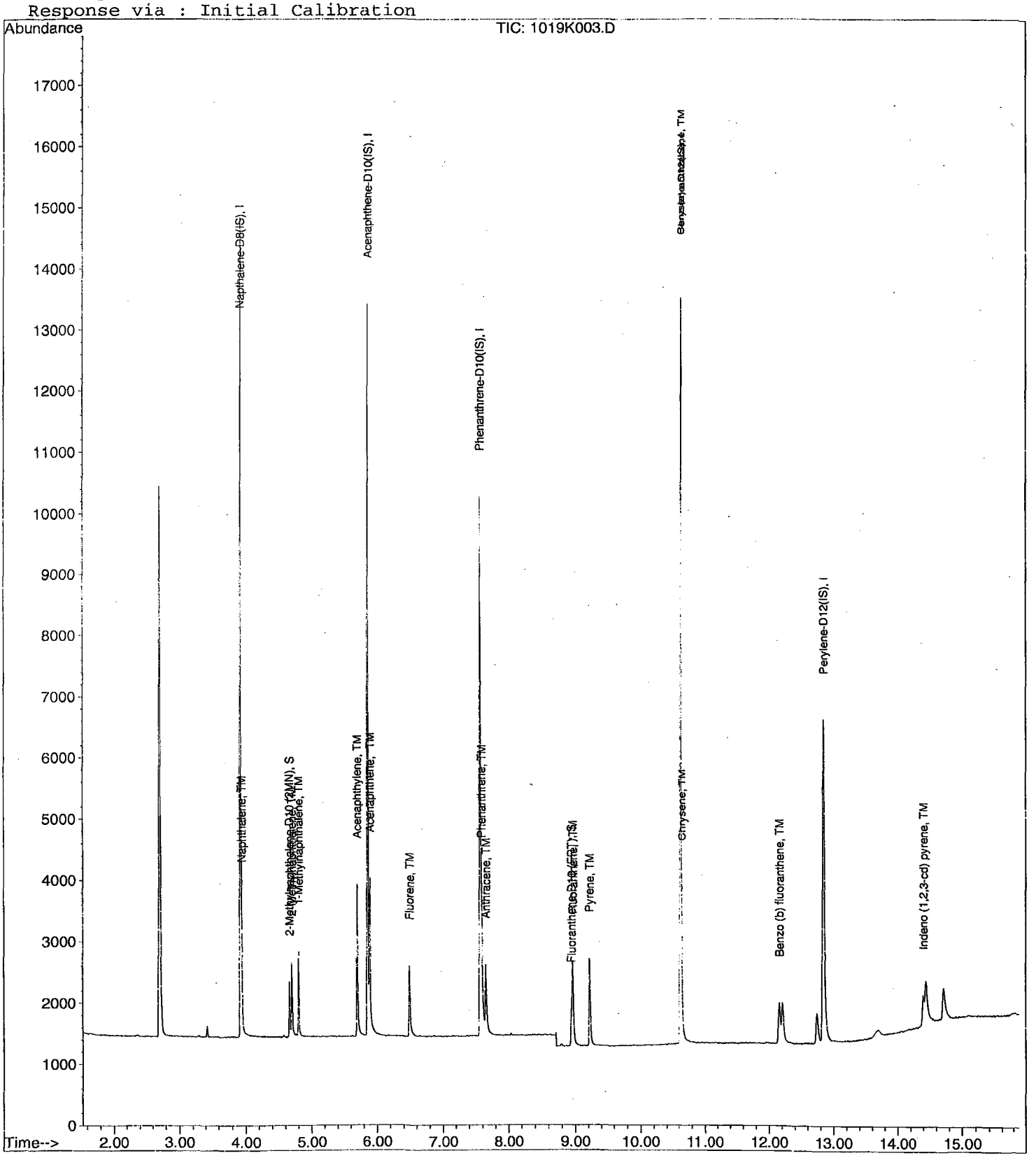
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211019\1019K003.D Vial: 3
Acq On : 19 Oct 21 14:29 Operator: LS
Sample : 0.2 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:48 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Nov 09 10:14:45 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K004.D Vial: 4
Acq On : 19 Oct 21 14:49 Operator: LS
Sample : 0.5 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:48 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Oct 19 16:47:23 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Napthalene-D8(IS)	3.92	136	11385	2.50000	ppb		0.00
6) Acenaphthene-D10(IS)	5.86	164	5536	2.50000	ppb		0.00
10) Phenanthrene-D10(IS)	7.56	188	8686	2.50000	ppb		0.00
15) Chrysene-D12(IS)	10.62	240	9708	2.50000	ppb		0.00
20) Perylene-D12(IS)	12.84	264	8669	2.50000	ppb		0.00
System Monitoring Compounds							
3) 2-Methylnaphthalene-D10 (2	4.66	152	1507	0.25921	ppb		0.00
Spiked Amount 5.000			Recovery =	5.180%			
13) Fluoranthene-D10 (FRT)	8.94	212	1646	0.24309	ppb		0.00
Spiked Amount 5.000			Recovery =	4.860%			
Target Compounds							Qvalue
2) Naphthalene	3.94	128	3083	0.52131	ppb		99
4) 2-Methylnaphthalene	4.69	142	1766	0.50952	ppb		99
5) 1-Methylnaphthalene	4.80	142	1806	0.51630	ppb		96
7) Acenaphthylene	5.69	152	5894	0.51427	ppb		100
8) Acenaphthene	5.89	154	1552	0.51126	ppb		100
9) Fluorene	6.49	166	1772	0.50373	ppb		99
11) Phenanthrene	7.59	178	2402	0.50250	ppb		99
12) Anthracene	7.65	178	2259	0.50035	ppb		99
14) Fluoranthene	8.96	202	3711	0.49974	ppb		99
16) Pyrene	9.21	202	3805	0.51191	ppb		98
17) Benz (a) anthracene	10.61	228	2678	0.49216	ppb		99
18) Chrysene	10.65	228	3122	0.51607	ppb		99
19) Indeno (1,2,3-cd) pyrene	14.39	276	2640	0.77101	ppb	#	97
21) Benzo (b) fluoranthene	12.15	252	2255	0.32301	ppb		100
23) Benzo (a) pyrene	12.74	252	2122	0.17741	ppb		99
24) Dibenz (a,h) anthracene	14.43	278	2117	0.29983	ppb		99
25) Benzo (g,h,i) perylene	14.70	276	2445	0.16843	ppb		100

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

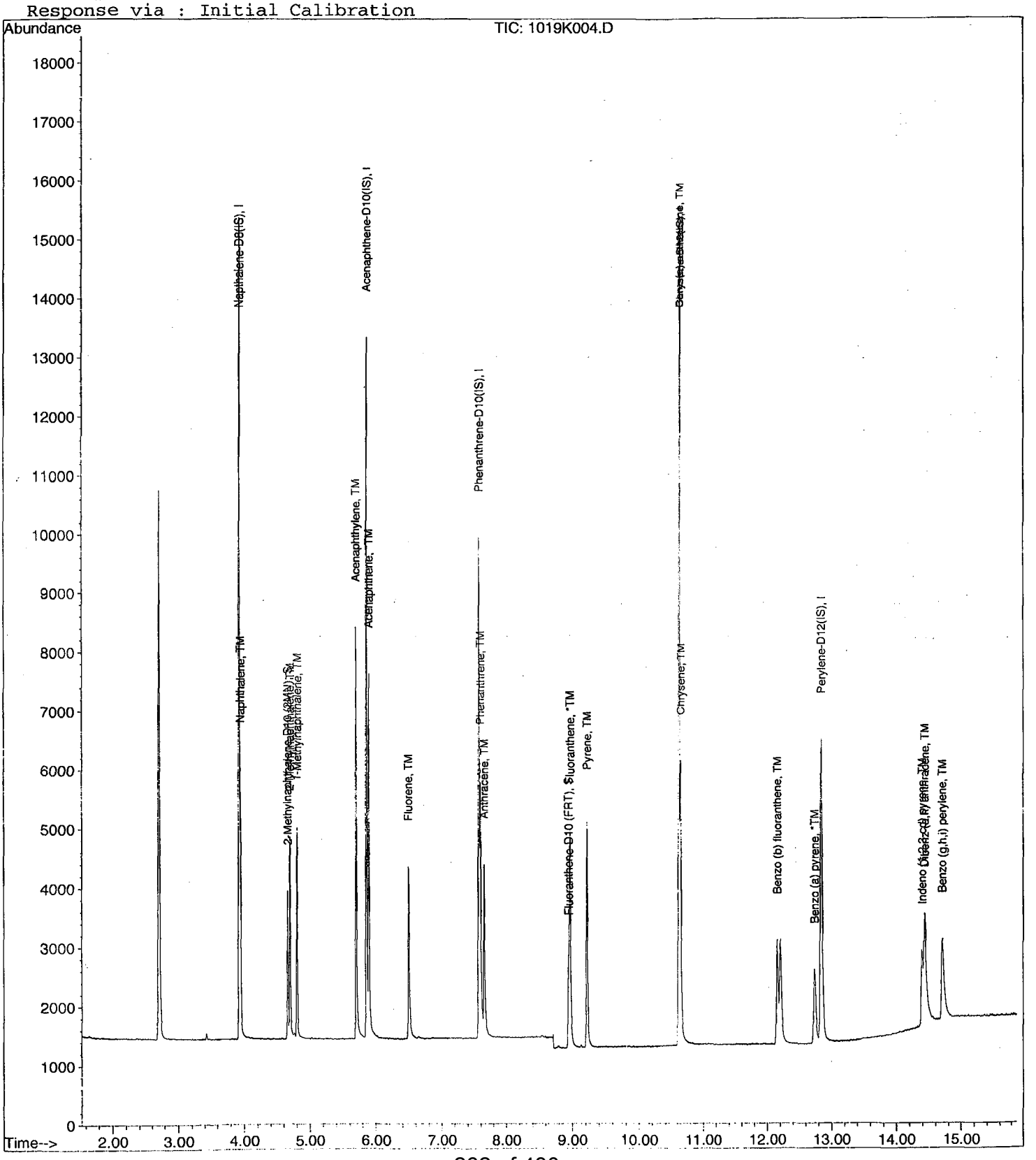
Quantitation Report

Data File : M:\KYLO\DATA\211019\1019K004.D
Acq On : 19 Oct 21 14:49
Sample : 0.5 ug/ml 10/13/21
Misc :

Vial: 4
Operator: LS
Inst : KYLO
Multiplr: 1.00

Quant Time: Oct 19 15:48 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Nov 09 10:14:45 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K005.D Vial: 5
Acq On : 19 Oct 21 15:09 Operator: LS
Sample : 1 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:48 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Oct 19 16:47:23 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	3.92	136	11032	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	5.86	164	5365	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.56	188	8424	2.50000 ppb		0.00
15) Chrysene-D12(IS)	10.63	240	9455	2.50000 ppb		0.01
20) Perylene-D12(IS)	12.84	264	8423	2.50000 ppb		0.01
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.66	152	2880	0.51122 ppb		0.00
Spiked Amount 5.000			Recovery =	10.220%		
13) Fluoranthene-D10 (FRT)	8.94	212	3208	0.48851 ppb		0.00
Spiked Amount 5.000			Recovery =	9.780%		
Target Compounds						Qvalue
2) Naphthalene	3.94	128	5894	1.02851 ppb		99
4) 2-Methylnaphthalene	4.69	142	3426	1.02008 ppb		99
5) 1-Methylnaphthalene	4.80	142	3513	1.03643 ppb		98
7) Acenaphthylene	5.70	152	11284	1.01594 ppb		99
8) Acenaphthene	5.89	154	2945	1.00106 ppb		97
9) Fluorene	6.49	166	3412	1.00086 ppb		99
11) Phenanthrene	7.59	178	4641	1.00109 ppb		99
12) Anthracene	7.65	178	4379	1.00008 ppb		100
14) Fluoranthene	8.96	202	7234	1.00447 ppb		100
16) Pyrene	9.21	202	7407	1.02317 ppb		99
17) Benz (a) anthracene	10.61	228	5224	0.98576 ppb		99
18) Chrysene	10.65	228	5954	1.01055 ppb		99
19) Indeno (1,2,3-cd) pyrene	14.39	276	5309	1.38990 ppb	#	90
21) Benzo (b) fluoranthene	12.15	252	4568	0.79546 ppb		99
22) Benzo (k) fluoranthene	12.21	252	5497	0.53419 ppb		98
23) Benzo (a) pyrene	12.74	252	4263	0.64650 ppb		99
24) Dibenz (a,h) anthracene	14.44	278	4288	0.78667 ppb		99
25) Benzo (g,h,i) perylene	14.71	276	4733	0.66726 ppb		99

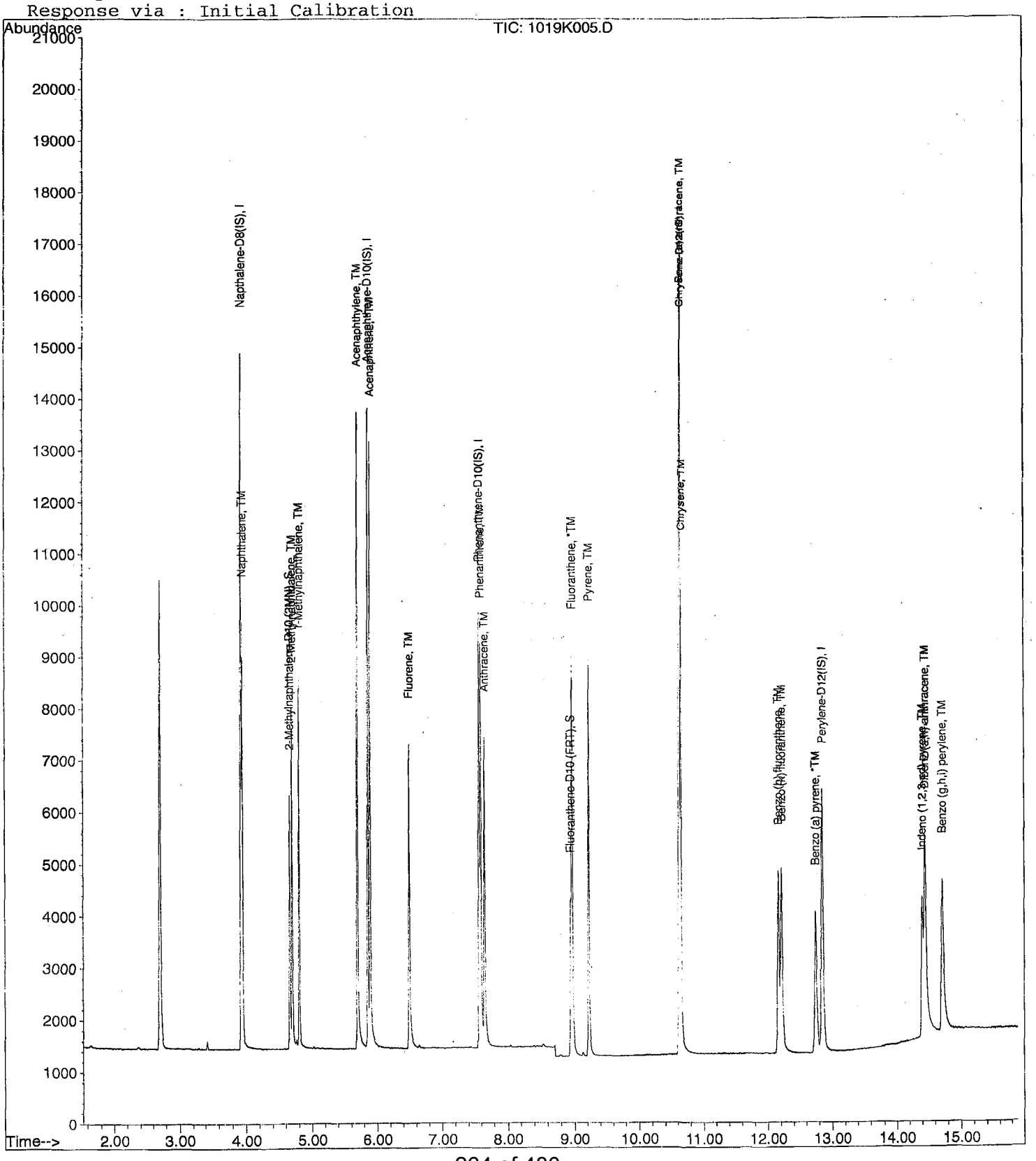
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211019\1019K005.D Vial: 5
Acq On : 19 Oct 21 15:09 Operator: LS
Sample : 1 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:48 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Nov 09 10:14:45 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K006.D Vial: 6
Acq On : 19 Oct 21 15:29 Operator: LS
Sample : 5 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:48 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Oct 19 16:47:23 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	3.92	136	11022	2.50000	ppb	0.00
6) Acenaphthene-D10(IS)	5.86	164	5414	2.50000	ppb	0.00
10) Phenanthrene-D10(IS)	7.56	188	8482	2.50000	ppb	0.00
15) Chrysene-D12(IS)	10.62	240	10015	2.50000	ppb	0.00
20) Perylene-D12(IS)	12.83	264	8704	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.66	152	14500	2.57619	ppb	0.00
Spiked Amount 5.000			Recovery =	51.520%		
13) Fluoranthene-D10 (FRT)	8.93	212	17235	2.60659	ppb	0.00
Spiked Amount 5.000			Recovery =	52.140%		
Target Compounds						Qvalue
2) Naphthalene	3.94	128	28832	5.03578	ppb	100
4) 2-Methylnaphthalene	4.69	142	17384	5.18072	ppb	100
5) 1-Methylnaphthalene	4.80	142	17464	5.15700	ppb	100
7) Acenaphthylene	5.69	152	58890	5.25410	ppb	100
8) Acenaphthene	5.89	154	15136	5.09845	ppb	100
9) Fluorene	6.49	166	17780	5.16829	ppb	100
11) Phenanthrene	7.59	178	23796	5.09785	ppb	100
12) Anthracene	7.64	178	22931	5.20117	ppb	100
14) Fluoranthene	8.95	202	38260	5.27621	ppb	100
16) Pyrene	9.21	202	39012	5.08763	ppb	100
17) Benz (a) anthracene	10.61	228	28070	5.00058	ppb	100
18) Chrysene	10.65	228	31118	4.98620	ppb	100
19) Indeno (1,2,3-cd) pyrene	14.38	276	20323	4.52699	ppb	100
21) Benzo (b) fluoranthene	12.14	252	26309	4.94784	ppb	100
22) Benzo (k) fluoranthene	12.19	252	29066	5.02910	ppb	100
23) Benzo (a) pyrene	12.73	252	25103	4.91484	ppb	100
24) Dibenz (a,h) anthracene	14.42	278	24331	4.98885	ppb	100
25) Benzo (g,h,i) perylene	14.69	276	26049	4.99985	ppb	100

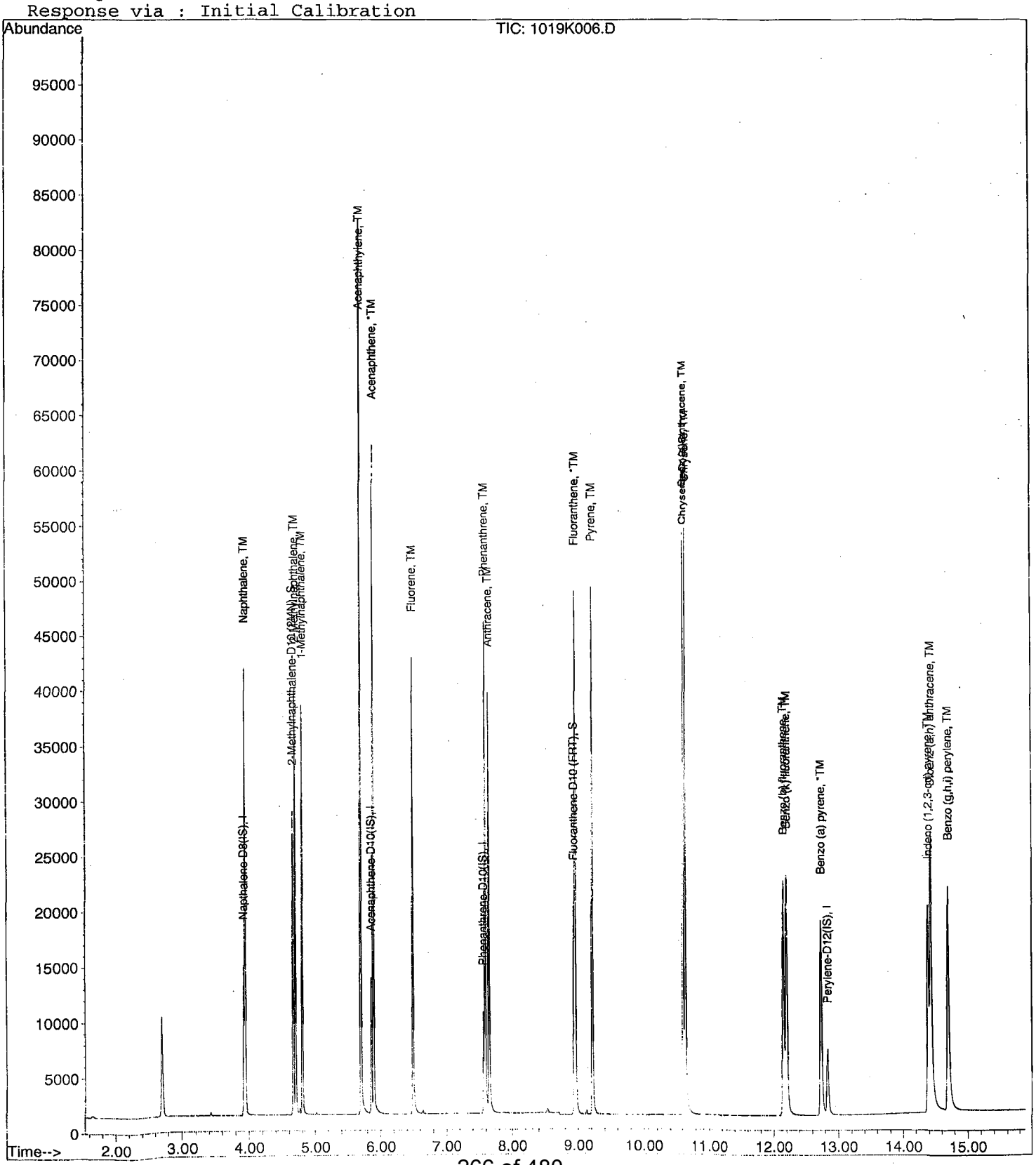
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211019\1019K006.D Vial: 6
Acq On : 19 Oct 21 15:29 Operator: LS
Sample : 5 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:48 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Nov 09 10:14:45 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K007.D Vial: 7
Acq On : 19 Oct 21 15:49 Operator: LS
Sample : 10 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:49 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Oct 19 16:47:23 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	3.92	136	11510	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	5.86	164	5675	2.50000 ppb		0.00
10) Phenanthrene-D10(IS)	7.56	188	8972	2.50000 ppb		0.00
15) Chrysene-D12(IS)	10.62	240	10664	2.50000 ppb		0.00
20) Perylene-D12(IS)	12.83	264	9232	2.50000 ppb		0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.66	152	26676	4.53854 ppb		0.00
Spiked Amount 5.000			Recovery =	90.780%		
13) Fluoranthene-D10 (FRT)	8.93	212	34413	4.92032 ppb		0.00
Spiked Amount 5.000			Recovery =	98.400%		
Target Compounds						Qvalue
2) Naphthalene	3.94	128	59354	9.92720 ppb		100
4) 2-Methylnaphthalene	4.69	142	35959	10.26203 ppb		100
5) 1-Methylnaphthalene	4.80	142	35938	10.16232 ppb		100
7) Acenaphthylene	5.69	152	122704	10.44402 ppb		100
8) Acenaphthene	5.89	154	31359	10.07724 ppb		99
9) Fluorene	6.49	166	37236	10.32596 ppb		99
11) Phenanthrene	7.59	178	49310	9.98682 ppb		100
12) Anthracene	7.64	178	48395	10.37738 ppb		100
14) Fluoranthene	8.95	202	79898	10.41651 ppb		100
16) Pyrene	9.21	202	82191	10.06635 ppb		100
17) Benz (a) anthracene	10.61	228	60563	10.13248 ppb		100
18) Chrysene	10.65	228	64649	9.72861 ppb		99
19) Indeno (1,2,3-cd) pyrene	14.38	276	44868	9.18248 ppb	#	99
21) Benzo (b) fluoranthene	12.14	252	55900	10.02449 ppb		99
22) Benzo (k) fluoranthene	12.19	252	63873	11.01716 ppb		99
23) Benzo (a) pyrene	12.73	252	54783	10.38939 ppb		99
24) Dibenz (a,h) anthracene	14.42	278	51533	10.11061 ppb		98
25) Benzo (g,h,i) perylene	14.69	276	56013	10.47964 ppb		98

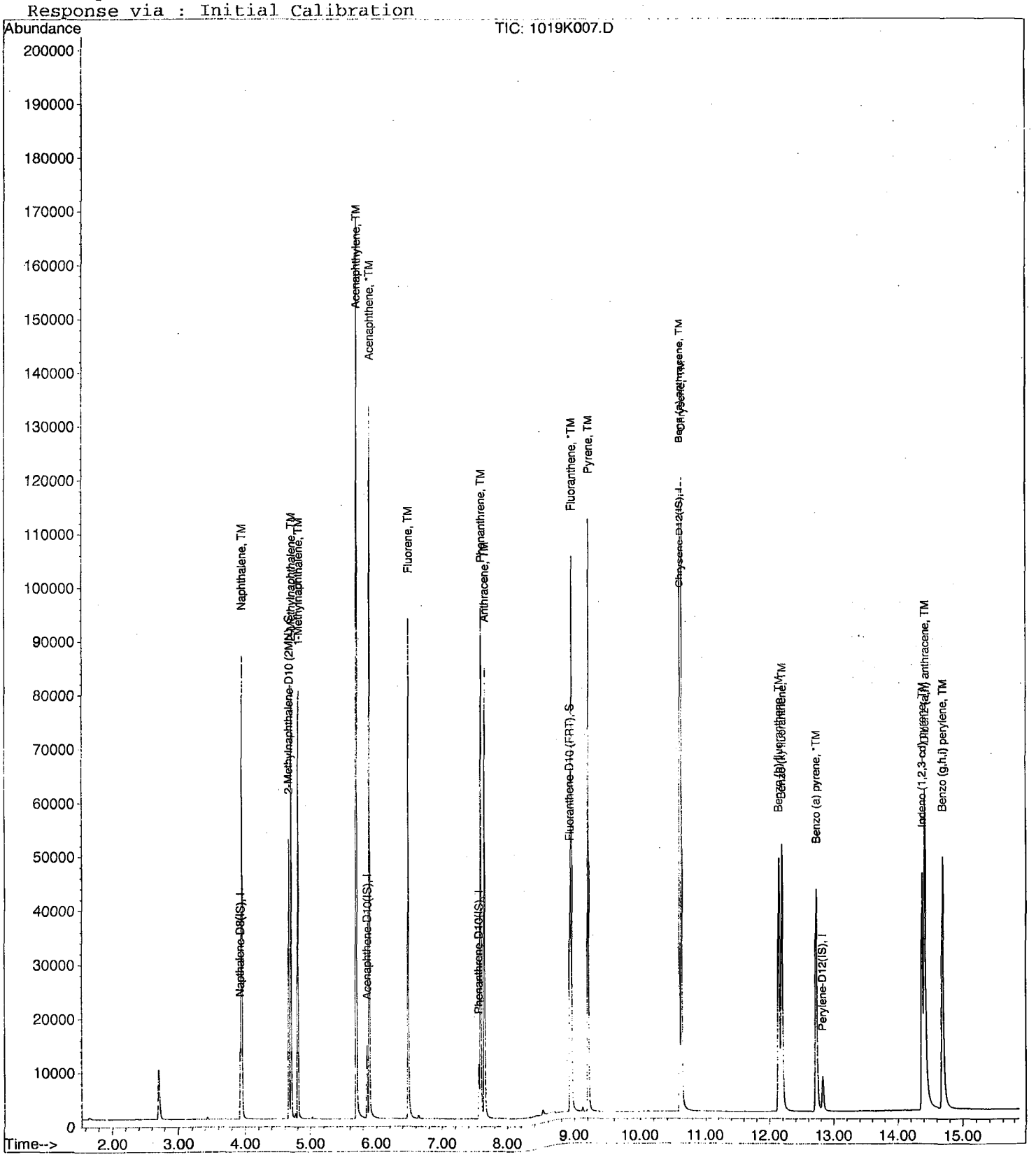
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211019\1019K007.D Vial: 7
Acq On : 19 Oct 21 15:49 Operator: LS
Sample : 10 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:49 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Nov 09 10:14:45 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K008.D Vial: 8
Acq On : 19 Oct 21 16:09 Operator: LS
Sample : 50 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:49 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Oct 19 16:47:23 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	3.92	136	11542	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	5.86	164	5767	2.50000 ppb	0.00
10) Phenanthrene-D10(IS)	7.56	188	8902	2.50000 ppb	0.00
15) Chrysene-D12(IS)	10.62	240	10648	2.50000 ppb	0.00
20) Perylene-D12(IS)	12.83	264	9592	2.50000 ppb	0.00
System Monitoring Compounds					
3) 2-Methylnaphthalene-D10 (2	4.66	152	140995	23.92178 ppb	0.00
Spiked Amount 5.000			Recovery = 478.440%		
13) Fluoranthene-D10 (FRT)	8.93	212	173855	25.05302 ppb	0.00
Spiked Amount 5.000			Recovery = 501.060%		
Target Compounds					Qvalue
2) Naphthalene	3.94	128	270597	45.13299 ppb	100
4) 2-Methylnaphthalene	4.69	142	165624	47.13496 ppb	99
5) 1-Methylnaphthalene	4.80	142	164402	46.35966 ppb	99
7) Acenaphthylene	5.70	152	560845	46.97510 ppb	100
8) Acenaphthene	5.89	154	145964	46.15736 ppb	99
9) Fluorene	6.49	166	175391	47.86199 ppb	100
11) Phenanthrene	7.59	178	233010	47.56290 ppb	100
12) Anthracene	7.64	178	228704	49.42683 ppb	100
14) Fluoranthene	8.96	202	371445	48.80706 ppb	99
16) Pyrene	9.21	202	379423	46.53971 ppb	98
17) Benz (a) anthracene	10.61	228	291856	48.90228 ppb	100
18) Chrysene	10.65	228	300277	45.25466 ppb	99
19) Indeno (1,2,3-cd) pyrene	14.38	276	248943	50.15933 ppb	94
21) Benzo (b) fluoranthene	12.15	252	294828	51.34534 ppb	99
22) Benzo (k) fluoranthene	12.20	252	302763	52.24864 ppb	100
23) Benzo (a) pyrene	12.73	252	278840	51.91758 ppb	100
24) Dibenz (a,h) anthracene	14.42	278	268409	51.28254 ppb	97
25) Benzo (g,h,i) perylene	14.70	276	280479	51.78283 ppb	99

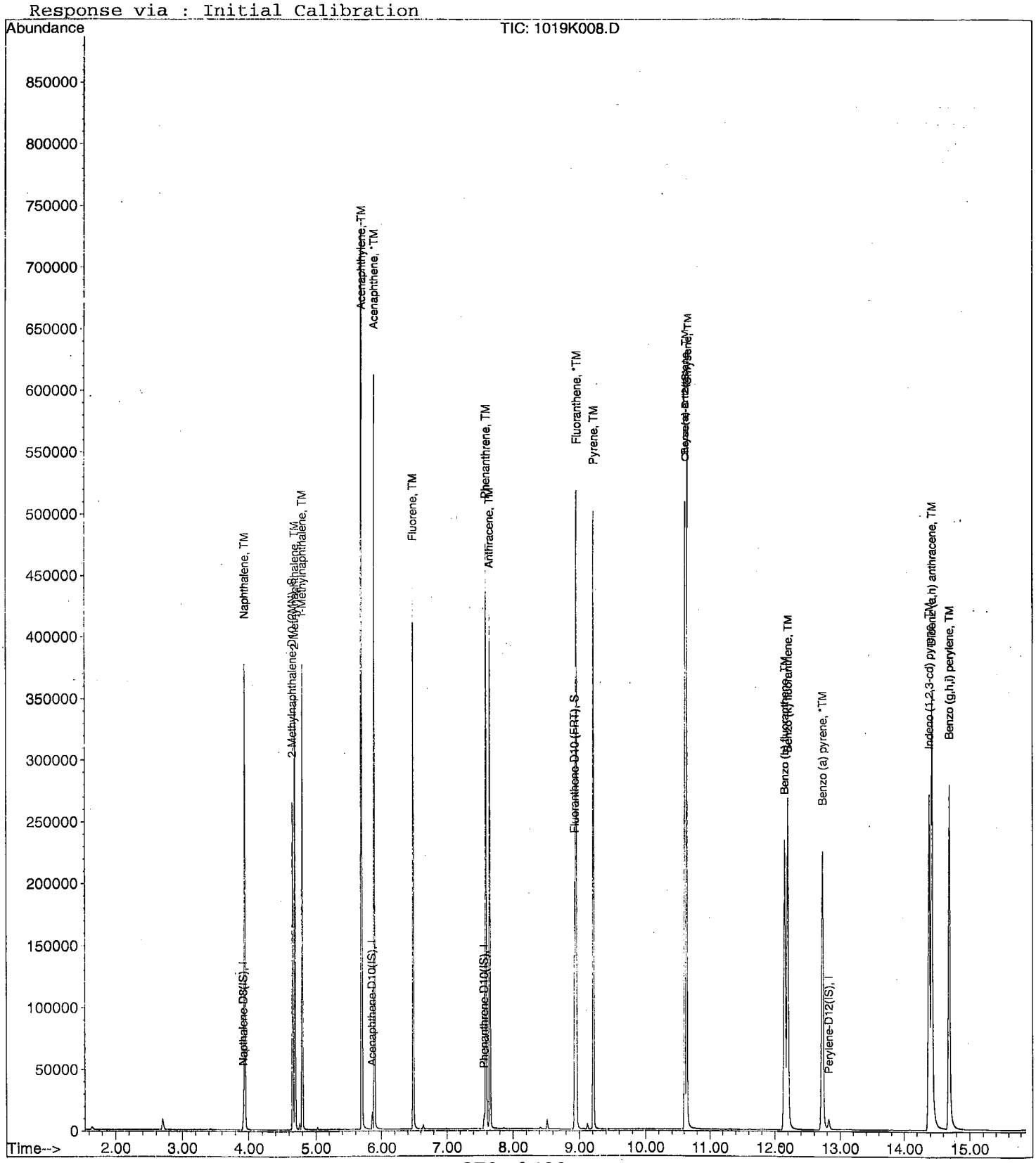
(#) = qualifier out of range (m) = manual integration

Data File : M:\KYLO\DATA\211019\1019K008.D
Acq On : 19 Oct 21 16:09
Sample : 50 ug/ml 10/13/21
Misc :

Vial: 8
Operator: LS
Inst : KYLO
Multiplr: 1.00

Quant Time: Oct 19 15:49 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Nov 09 10:14:45 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K009.D Vial: 9
Acq On : 19 Oct 21 16:29 Operator: LS
Sample : 100 ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 15:49 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Oct 19 16:47:23 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	3.92	136	11679	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	5.86	164	5877	2.50000 ppb	0.00
10) Phenanthrene-D10(IS)	7.56	188	9024	2.50000 ppb	0.00
15) Chrysene-D12(IS)	10.63	240	10469	2.50000 ppb	0.01
20) Perylene-D12(IS)	12.83	264	9899	2.50000 ppb	0.00
System Monitoring Compounds					
3) 2-Methylnaphthalene-D10 (2	4.66	152	278374	46.67602 ppb	0.00
Spiked Amount 5.000			Recovery = 933.520%		
13) Fluoranthene-D10 (FRT)	8.94	212	341108	48.49012 ppb	0.00
Spiked Amount 5.000			Recovery = 969.800%		
Target Compounds					Qvalue
2) Naphthalene	3.94	128	514066	84.73550 ppb	100
4) 2-Methylnaphthalene	4.70	142	318816	89.66757 ppb	99
5) 1-Methylnaphthalene	4.80	142	317528	88.48927 ppb	98
7) Acenaphthylene	5.70	152	1047512	86.09505 ppb	98
8) Acenaphthene	5.90	154	283708	88.03615 ppb	94
9) Fluorene	6.49	166	342219	91.63932 ppb	99
11) Phenanthrene	7.59	178	452383	91.09374 ppb	99
12) Anthracene	7.65	178	447639	95.43451 ppb	100
14) Fluoranthene	8.96	202	701599	90.94222 ppb	97
16) Pyrene	9.22	202	720167	89.84545 ppb	99
17) Benz (a) anthracene	10.62	228	562838	95.91946 ppb	99
18) Chrysene	10.66	228	575910	88.27926 ppb	98
19) Indeno (1,2,3-cd) pyrene	14.39	276	488982	100.01982 ppb	89
21) Benzo (b) fluoranthene	12.16	252	587997	99.33083 ppb	100
22) Benzo (k) fluoranthene	12.16	252	587786	98.78137 ppb	99
23) Benzo (a) pyrene	12.74	252	547488	99.01252 ppb	98
24) Dibenz (a,h) anthracene	14.43	278	535891	99.35185 ppb	94
25) Benzo (g,h,i) perylene	14.71	276	552068	99.06661 ppb	98

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

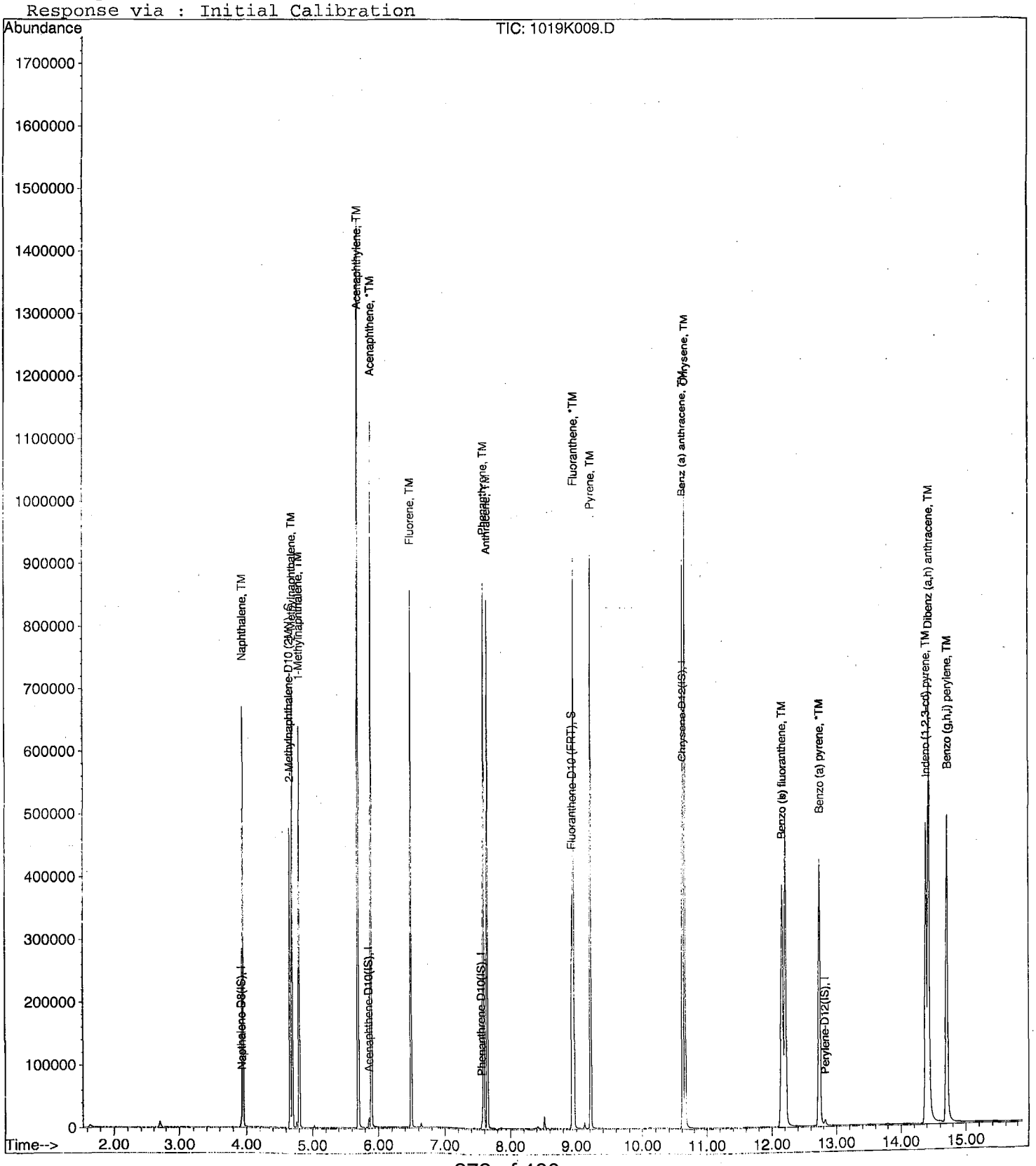
Quantitation Report

Data File : M:\KYLO\DATA\211019\1019K009.D
Acq On : 19 Oct 21 16:29
Sample : 100 ug/ml 10/13/21
Misc :

Vial: 9
Operator: LS
Inst : KYLO
Multiplr: 1.00

Quant Time: Oct 19 15:49 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Nov 09 10:14:45 2021
Response via : Initial Calibration



Form 7

Second Source Calibration

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

SDG No:
Date Analyzed: 10/19/2021
Instrument: KYLO
Initial Cal. Date: 10/19/2021
Data File: 1019K010.D

		Compound	MEAN	CCRF	%D		%Drift
1	TM	Naphthalene	1.299	1.295	0.25	TM	
2	TM	2-Methylnaphthalene	0.7611	0.7635	0.32	TM	
3	TM	1-Methylnaphthalene	0.7681	0.7563	1.5	TM	
4	TM	Acenaphthylene	5.176	5.272	1.9	TM	
5	*TM	Acenaphthene	1.371	1.393	1.6	*TM	
6	TM	Fluorene	1.589	1.616	1.7	TM	
7	TM	Phenanthrene	1.376	1.380	0.31	TM	
8	TM	Anthracene	1.299	1.415	8.9	TM	
9	*TM	Fluoranthene	2.137	2.167	1.4	*TM	
10	TM	Pyrene	1.914	1.918	0.21	TM	
11	TM	Benz (a) anthracene	1.401	1.374	1.9	TM	
12	TM	Chrysene	1.558	1.488	4.5	TM	
13	TML	Indeno (1,2,3-cd) pyrene	1.272	0.9799	23	TML	12
14	TM	Benzo (b) fluoranthene	1.408	1.510	7.3	TM	
15	TM	Benzo (k) fluoranthene	1.610	1.698	5.5	TM	
16	*TM	Benzo (a) pyrene	1.341	1.484	11	*TM	
17	TM	Dibenz (a,h) anthracene	1.326	1.382	4.2	TM	
18	TM	Benzo (g,h,i) perylene	1.443	1.486	3.0	TM	
19							
20							
21							
22							
23							
24							
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27							
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30							
31							
32							
33							
34							
35							
36							
37							
38							
		Average			4.4		

Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211019\1019K010.D Vial: 10
Acq On : 19 Oct 21 16:49 Operator: LS
Sample : SS ug/ml 10/13/21 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Oct 19 16:06 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Oct 19 16:51:19 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	3.92	136	11540	2.50000	ppb	0.00
6) Acenaphthene-D10(IS)	5.86	164	5722	2.50000	ppb	0.00
10) Phenanthrene-D10(IS)	7.56	188	8843	2.50000	ppb	0.00
15) Chrysene-D12(IS)	10.62	240	10394	2.50000	ppb	0.00
20) Perylene-D12(IS)	12.83	264	8800	2.50000	ppb	0.00
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.66	152	1	0.00017	ppb	0.00
Spiked Amount 5.000			Recovery =	0.000%		
13) Fluoranthene-D10 (FRT)	8.93	212	9	0.00131	ppb	0.00
Spiked Amount 5.000			Recovery =	0.020%		
Target Compounds						Qvalue
2) Naphthalene	3.94	128	29897	4.98740	ppb	100
4) 2-Methylnaphthalene	4.69	142	17622	5.01592	ppb	100
5) 1-Methylnaphthalene	4.80	142	17455	4.92298	ppb	100
7) Acenaphthylene	5.69	152	60338	5.09352	ppb	100
8) Acenaphthene	5.89	154	15936	5.07898	ppb	100
9) Fluorene	6.49	166	18488	5.08482	ppb	100
11) Phenanthrene	7.59	178	24407	5.01529	ppb	100
12) Anthracene	7.64	178	25019	5.44311	ppb	100
14) Fluoranthene	8.95	202	38328	5.06982	ppb	99
16) Pyrene	9.21	202	39873	5.01031	ppb	100
17) Benz (a) anthracene	10.61	228	28567	4.90355	ppb	99
18) Chrysene	10.65	228	30939	4.77675	ppb	100
19) Indeno (1,2,3-cd) pyrene	14.38	276	20371	4.37871	ppb	99
21) Benzo (b) fluoranthene	12.14	252	26577	5.36265	ppb	100
22) Benzo (k) fluoranthene	12.19	252	29888	5.27373	ppb	100
23) Benzo (a) pyrene	12.73	252	26127	5.53492	ppb	100
24) Dibenz (a,h) anthracene	14.42	278	24324	5.21145	ppb	99
25) Benzo (g,h,i) perylene	14.69	276	26159	5.14999	ppb	100

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

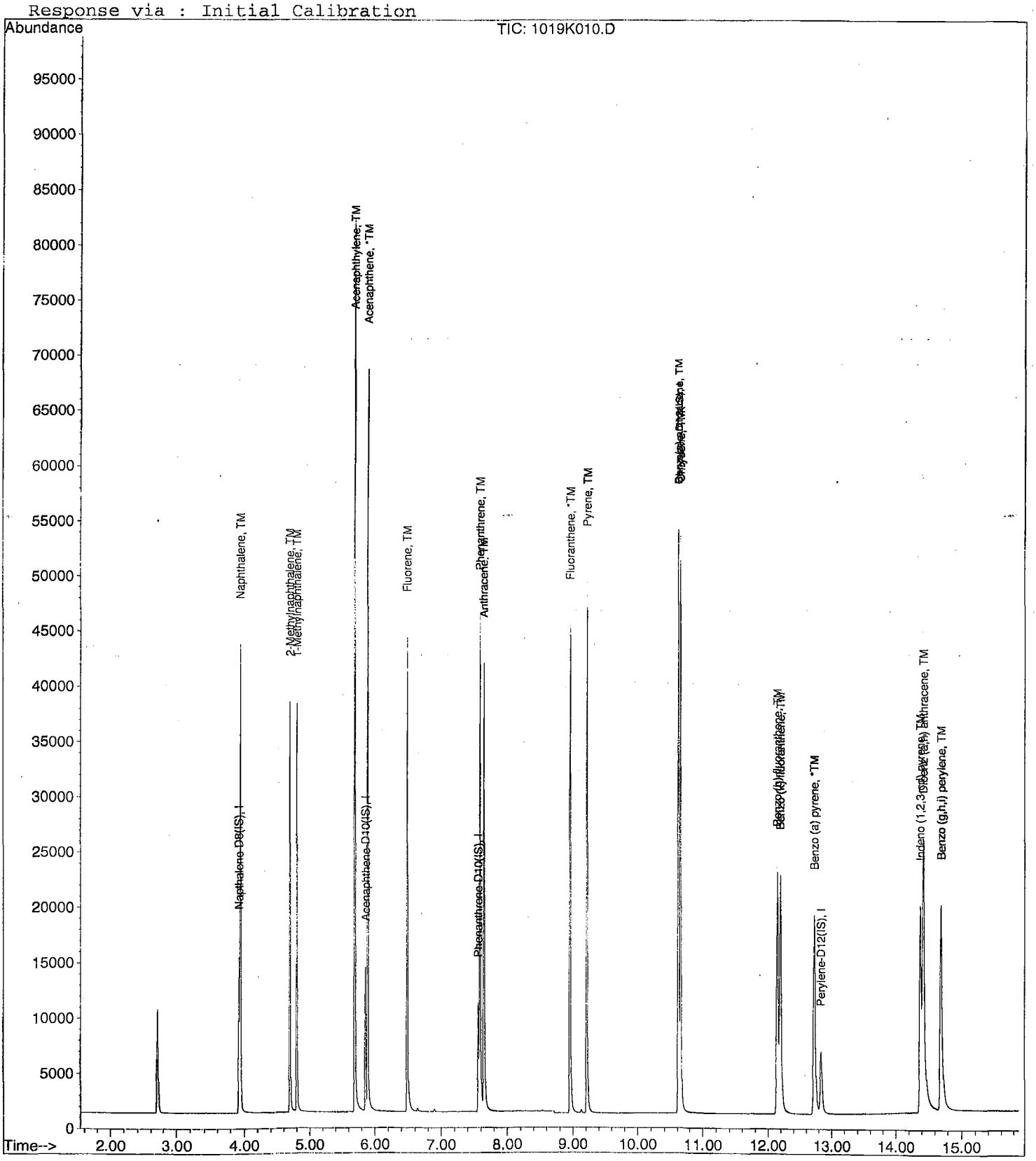
Quantitation Report

Data File : M:\KYLO\DATA\211019\1019K010.D
Acq On : 19 Oct 21 16:49
Sample : SS ug/ml 10/13/21
Misc :

Vial: 10
Operator: LS
Inst : KYLO
Multiplr: 1.00

Quant Time: Oct 19 16:06 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211019\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Tue Nov 09 10:14:45 2021
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 8 Dec 21 12:35
Instrument: KYLO
Initial Cal. Date: 10/19/2021
Data File: 1124K182.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	1.299	1.304	0.39	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.277	1.158	9.3	S	
4	TM	2-Methylnaphthalene	0.7611	0.7817	2.7	TM	
5	TM	1-Methylnaphthalene	0.7681	0.7817	1.8	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	5.176	5.575	7.7	TM	
8	*TM	Acenaphthene	1.371	1.427	4.1	*TM	
9	TM	Fluorene	1.589	1.653	4.1	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.376	1.448	5.2	TM	
12	TM	Anthracene	1.299	1.410	8.5	TM	
13	S	Fluoranthene-D10 (FRT)	1.949	1.984	1.8	S	
14	*TM	Fluoranthene	2.137	2.337	9.3	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.914	1.984	3.6	TM	
17	TM	Benz (a) anthracene	1.401	1.456	3.9	TM	
18	TM	Chrysene	1.558	1.548	0.63	TM	
19	TML	Indeno (1,2,3-cd) pyrene	1.272	1.119	12	TML	0.57
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	1.408	1.412	0.26	TM	
22	TM	Benzo (k) fluoranthene	1.610	1.605	0.33	TM	
23	*TM	Benzo (a) pyrene	1.341	1.437	7.1	*TM	
24	TM	Dibenz (a,h) anthracene	1.326	1.314	0.90	TM	
25	TM	Benzo (g,h,i) perylene	1.443	1.430	0.88	TM	
26							
27							
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31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			4.2		

Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211124\1124K182.D Vial: 32
Acq On : 8 Dec 21 12:35 Operator: LS
Sample : 5 ug/ml 10/19/21 (2) Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:51 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	3.86	136	10849	2.50000	ppb	0.00
6) Acenaphthene-D10(IS)	5.79	164	5183	2.50000	ppb	-0.07
10) Phenanthrene-D10(IS)	7.49	188	7699	2.50000	ppb	-0.06
15) Chrysene-D12(IS)	10.55	240	9489	2.50000	ppb	-0.07
20) Perylene-D12(IS)	12.71	264	9017	2.50000	ppb	-0.12
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.59	152	12564	2.26782	ppb	0.00
Spiked Amount 5.000			Recovery =	45.360%		
13) Fluoranthene-D10 (FRT)	8.86	212	15272	2.54461	ppb	-0.07
Spiked Amount 5.000			Recovery =	50.900%		
Target Compounds						Qvalue
2) Naphthalene	3.88	128	28288	5.01955	ppb	# 84
4) 2-Methylnaphthalene	4.63	142	16962	5.13557	ppb	# 64
5) 1-Methylnaphthalene	4.73	142	16962	5.08864	ppb	88
7) Acenaphthylene	5.63	152	57790	5.38575	ppb	99
8) Acenaphthene	5.82	154	14791	5.20429	ppb	98
9) Fluorene	6.42	166	17139	5.20400	ppb	100
11) Phenanthrene	7.52	178	22295	5.26204	ppb	99
12) Anthracene	7.57	178	21712	5.42553	ppb	99
14) Fluoranthene	8.89	202	35985	5.46717	ppb	98
16) Pyrene	9.14	202	37652	5.18246	ppb	98
17) Benz (a) anthracene	10.54	228	27626	5.19429	ppb	99
18) Chrysene	10.57	228	29379	4.96851	ppb	98
19) Indeno (1,2,3-cd) pyrene	14.29	276	21230	4.97171	ppb	94
21) Benzo (b) fluoranthene	12.03	252	25457	5.01304	ppb	99
22) Benzo (k) fluoranthene	12.08	252	28940	4.98356	ppb	99
23) Benzo (a) pyrene	12.61	252	25910	5.35685	ppb	97
24) Dibenz (a,h) anthracene	14.33	278	23697	4.95493	ppb	95
25) Benzo (g,h,i) perylene	14.59	276	25795	4.95612	ppb	94

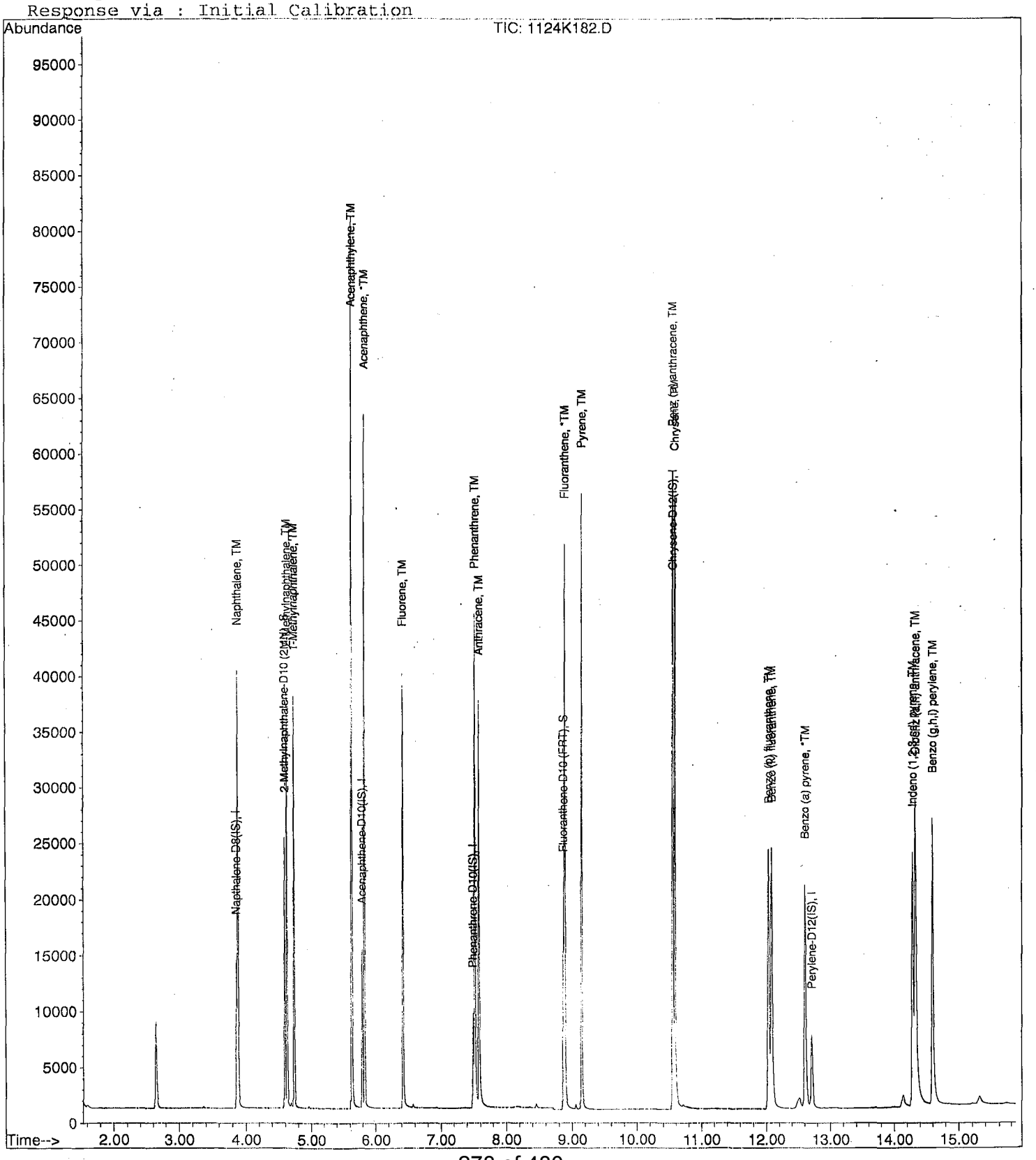
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K182.D Vial: 32
Acq On : 8 Dec 21 12:35 Operator: LS
Sample : 5 ug/ml 10/19/21 (2) Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:51 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration



PAH by GCMS SIM
EPA 8270 SIM

Form 7

Ending Continuing Calibration

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

SDG No:
Date Analyzed: 8 Dec 21 17:54
Instrument: KYLO
Initial Cal. Date: 10/19/2021
Data File: 1124K198.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Napthalene-D8(IS)	ISTD			I	
2	TM	Naphthalene	1.299	1.287	0.86	TM	
3	S	2-Methylnaphthalene-D10 (2MN)	1.277	1.267	0.76	S	
4	TM	2-Methylnaphthalene	0.7611	0.7930	4.2	TM	
5	TM	1-Methylnaphthalene	0.7681	0.7936	3.3	TM	
6	I	Acenaphthene-D10(IS)	ISTD			I	
7	TM	Acenaphthylene	5.176	5.628	8.7	TM	
8	*TM	Acenaphthene	1.371	1.413	3.0	*TM	
9	TM	Fluorene	1.589	1.674	5.4	TM	
10	I	Phenanthrene-D10(IS)	ISTD			I	
11	TM	Phenanthrene	1.376	1.455	5.8	TM	
12	TM	Anthracene	1.299	1.423	9.5	TM	
13	S	Fluoranthene-D10 (FRT)	1.949	2.031	4.2	S	
14	*TM	Fluoranthene	2.137	2.374	11	*TM	
15	I	Chrysene-D12(IS)	ISTD			I	
16	TM	Pyrene	1.914	2.014	5.2	TM	
17	TM	Benz (a) anthracene	1.401	1.493	6.6	TM	
18	TM	Chrysene	1.558	1.578	1.3	TM	
19	TML	Indeno (1,2,3-cd) pyrene	1.272	1.122	12	TML	0.32
20	I	Perylene-D12(IS)	ISTD			I	
21	TM	Benzo (b) fluoranthene	1.408	1.559	11	TM	
22	TM	Benzo (k) fluoranthene	1.610	1.604	0.38	TM	
23	*TM	Benzo (a) pyrene	1.341	1.460	8.9	*TM	
24	TM	Dibenz (a,h) anthracene	1.326	1.309	1.2	TM	
25	TM	Benzo (g,h,i) perylene	1.443	1.434	0.66	TM	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
		Average			5.2		

Quantitation Report (Not Reviewed)

Data File : M:\KYLO\DATA\211124\1124K198.D Vial: 48
Acq On : 8 Dec 21 17:54 Operator: LS
Sample : 5 ug/ml 10/19/21 (1) Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Dec 9 8:09 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	3.86	136	12017	2.50000	ppb	0.00
6) Acenaphthene-D10(IS)	5.79	164	5994	2.50000	ppb	-0.07
10) Phenanthrene-D10(IS)	7.49	188	9076	2.50000	ppb	-0.07
15) Chrysene-D12(IS)	10.54	240	10959	2.50000	ppb	-0.07
20) Perylene-D12(IS)	12.71	264	10086	2.50000	ppb	-0.13
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.59	152	15225	2.48103	ppb	0.00
Spiked Amount 5.000			Recovery =	49.620%		
13) Fluoranthene-D10 (FRT)	8.86	212	18431	2.60504	ppb	-0.07
Spiked Amount 5.000			Recovery =	52.100%		
Target Compounds						Qvalue
2) Naphthalene	3.88	128	30942	4.95684	ppb	# 84
4) 2-Methylnaphthalene	4.63	142	19059	5.20961	ppb	# 66
5) 1-Methylnaphthalene	4.73	142	19074	5.16607	ppb	88
7) Acenaphthylene	5.63	152	67466	5.43680	ppb	99
8) Acenaphthene	5.82	154	16934	5.15214	ppb	99
9) Fluorene	6.42	166	20072	5.26996	ppb	99
11) Phenanthrene	7.52	178	26415	5.28856	ppb	99
12) Anthracene	7.57	178	25822	5.47359	ppb	99
14) Fluoranthene	8.89	202	43100	5.55467	ppb	99
16) Pyrene	9.14	202	44152	5.26196	ppb	99
17) Benz (a) anthracene	10.53	228	32733	5.32897	ppb	100
18) Chrysene	10.57	228	34586	5.06452	ppb	99
19) Indeno (1,2,3-cd) pyrene	14.28	276	24582	4.98402	ppb	93
21) Benzo (b) fluoranthene	12.03	252	31452	5.53714	ppb	98
22) Benzo (k) fluoranthene	12.08	252	32355	4.98111	ppb	99
23) Benzo (a) pyrene	12.60	252	29452	5.44377	ppb	97
24) Dibenz (a,h) anthracene	14.33	278	26414	4.93767	ppb	98
25) Benzo (g,h,i) perylene	14.59	276	28917	4.96709	ppb	94

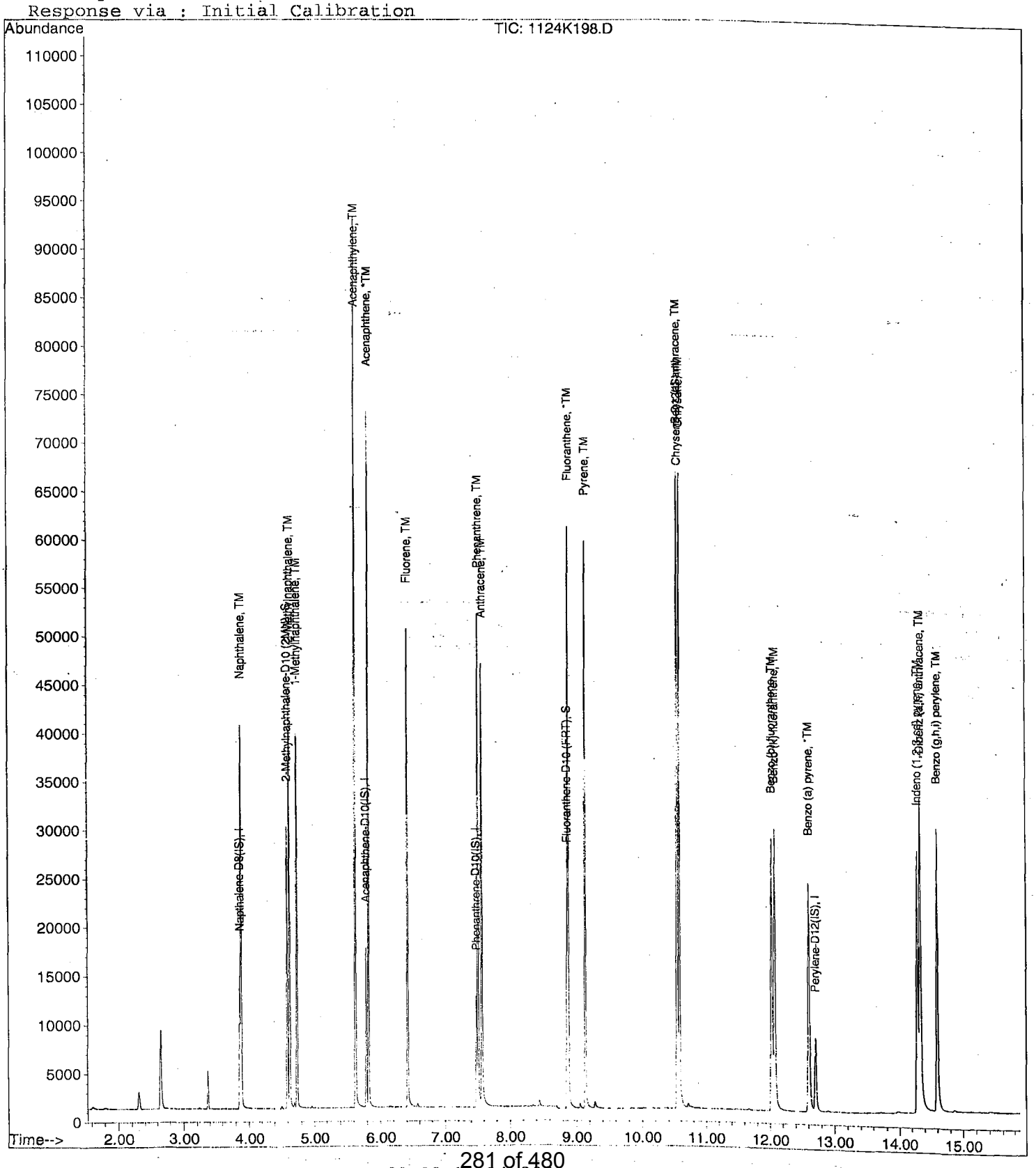
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K198.D Vial: 48
Acq On : 8 Dec 21 17:54 Operator: LS
Sample : 5 ug/ml 10/19/21 (1) Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Dec 9 8:09 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration



ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K186.D Vial: 36
Acq On : 8 Dec 21 13:55 Operator: LS
Sample : BA47128W08 1/950 Inst : KYLO
Misc : Multiplr: 1.05

Quant Time: Jan 3 9:52 2022 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8(IS)	3.86	136	8663	2.500	ppb	0.00
6) Acenaphthene-D10(IS)	5.79	164	4736	2.500	ppb	-0.07
10) Phenanthrene-D10(IS)	7.49	188	8016	2.500	ppb	-0.07
15) Chrysene-D12(IS)	10.55	240	9304	2.500	ppb	-0.07
20) Perylene-D12(IS)	12.71	264	8545	2.500	ppb	-0.12
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.59	152	23204	5.521	ppb	0.00
Spiked Amount 5.263			Recovery = 104.899%			
13) Fluoranthene-D10 (FRT)	8.86	212	26602	4.481	ppb	-0.07
Spiked Amount 5.263			Recovery = 85.139%			

Target Compounds Qvalue

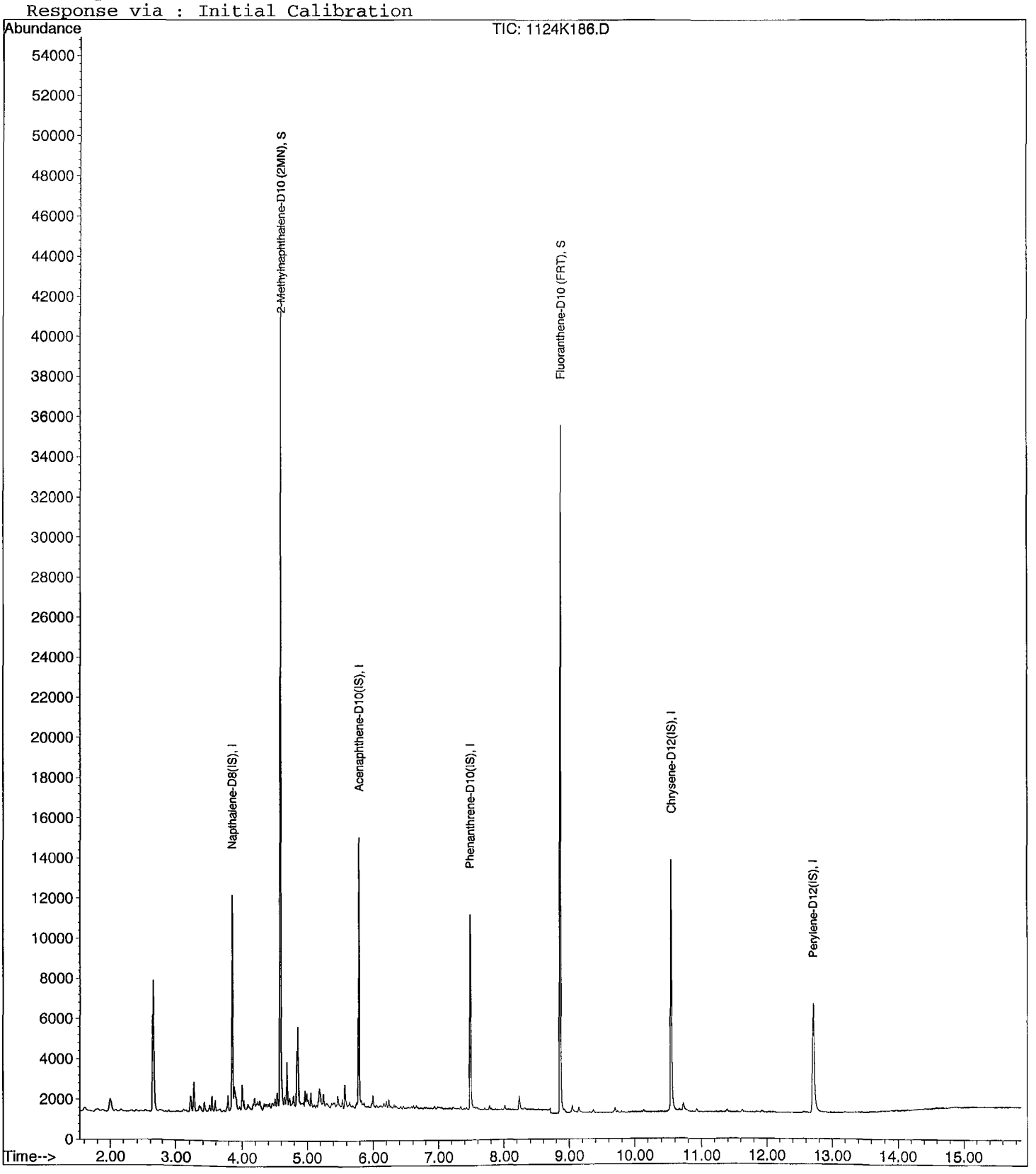
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K186.D Vial: 36
Acq On : 8 Dec 21 13:55 Operator: LS
Sample : BA47128W08 1/950 Inst : KYLO
Misc : Multiplr: 1.05

Quant Time: Jan 3 9:52 2022 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K187.D Vial: 37
Acq On : 8 Dec 21 14:15 Operator: LS
Sample : BA47132W07 1/950 Inst : KYLO
Misc : Multiplr: 1.05

Quant Time: Dec 8 15:00 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	3.86	136	9657	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	5.79	164	4952	2.50000 ppb	-0.07
10) Phenanthrene-D10(IS)	7.49	188	7888	2.50000 ppb	-0.06
15) Chrysene-D12(IS)	10.55	240	9002	2.50000 ppb	-0.07
20) Perylene-D12(IS)	12.71	264	8476	2.50000 ppb	-0.12
System Monitoring Compounds					
3) 2-Methylnaphthalene-D10 (2	4.59	152	24146	5.15406 ppb	0.00
Spiked Amount 5.263			Recovery = 97.926%		
13) Fluoranthene-D10 (FRT)	8.86	212	26581	4.55031 ppb	-0.07
Spiked Amount 5.263			Recovery = 86.450%		
Target Compounds					Qvalue
2) Naphthalene	3.88	128	165293	34.68487 ppb #	84
4) 2-Methylnaphthalene	4.63	142	36346	13.01341 ppb #	65
5) 1-Methylnaphthalene	4.74	142	43691	15.50029 ppb	86

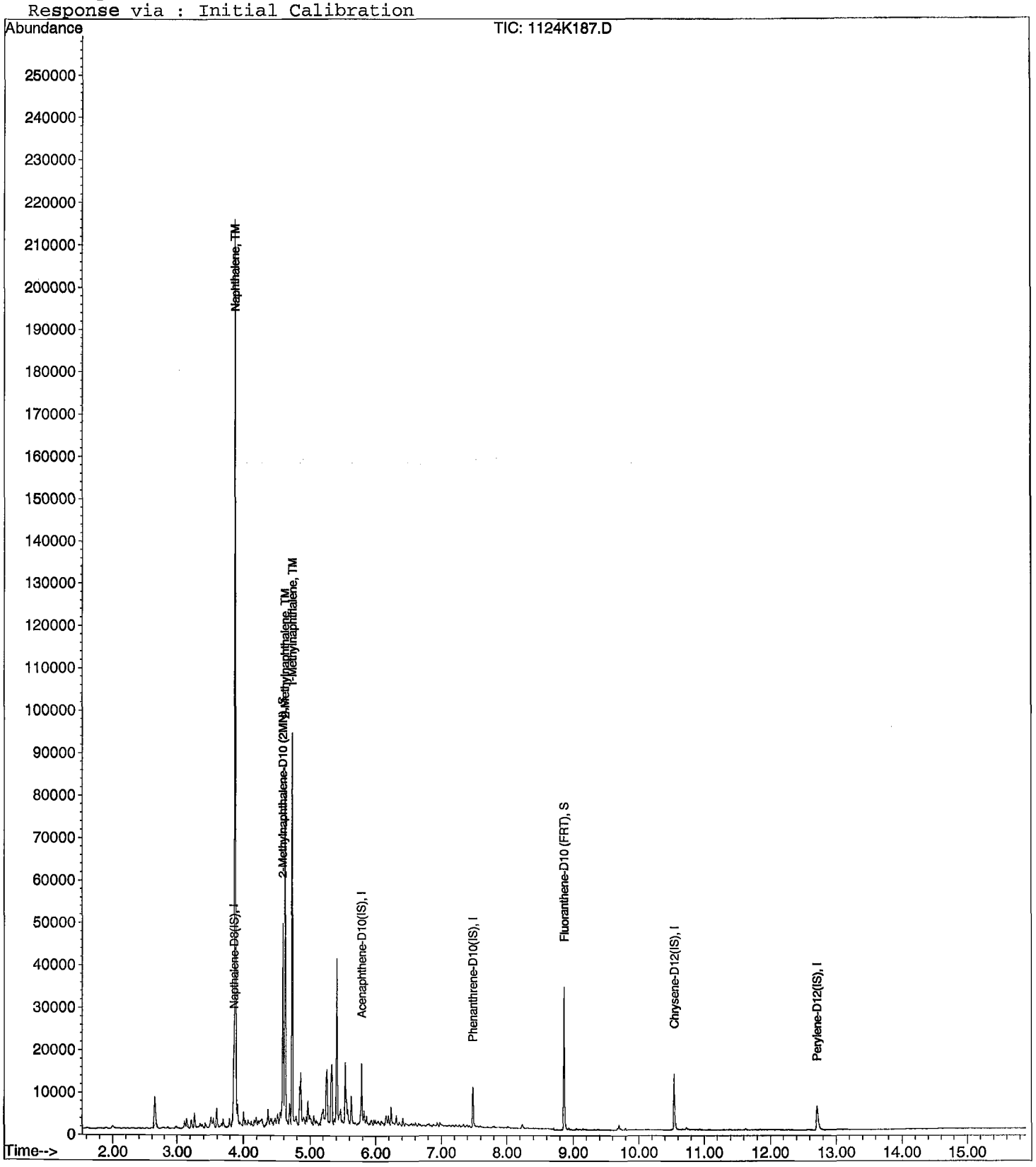
(#) = qualifier out of range (m) = manual integration

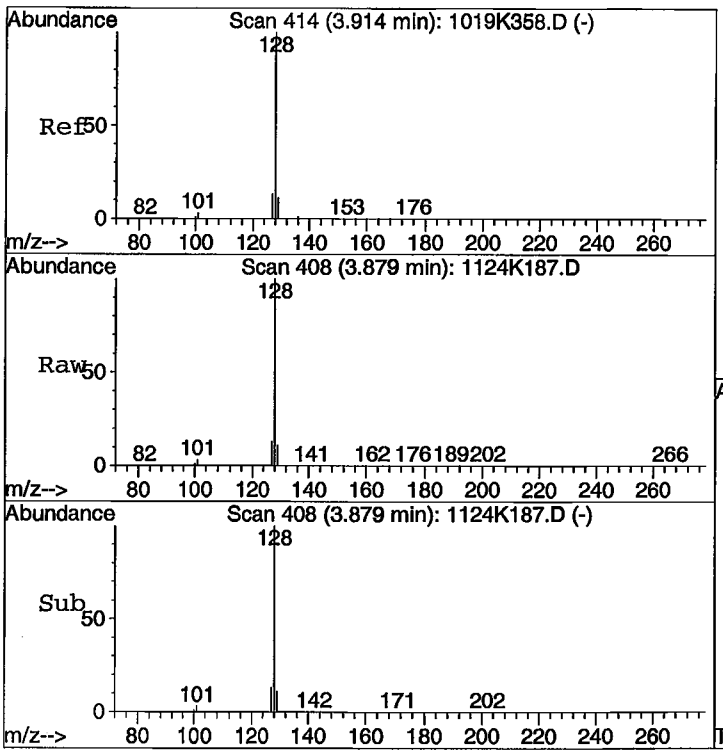
Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K187.D Vial: 37
Acq On : 8 Dec 21 14:15 Operator: LS
Sample : BA47132W07 1/950 Inst : KYLO
Misc : Multiplr: 1.05

Quant Time: Dec 8 15:00 2021 Quant Results File: K1019.RES

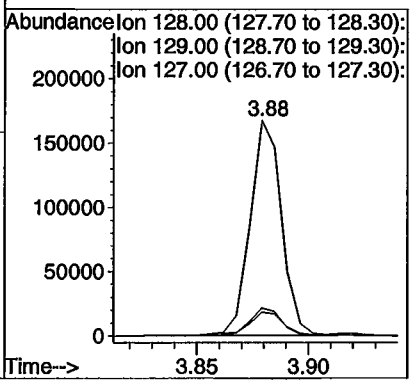
Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration

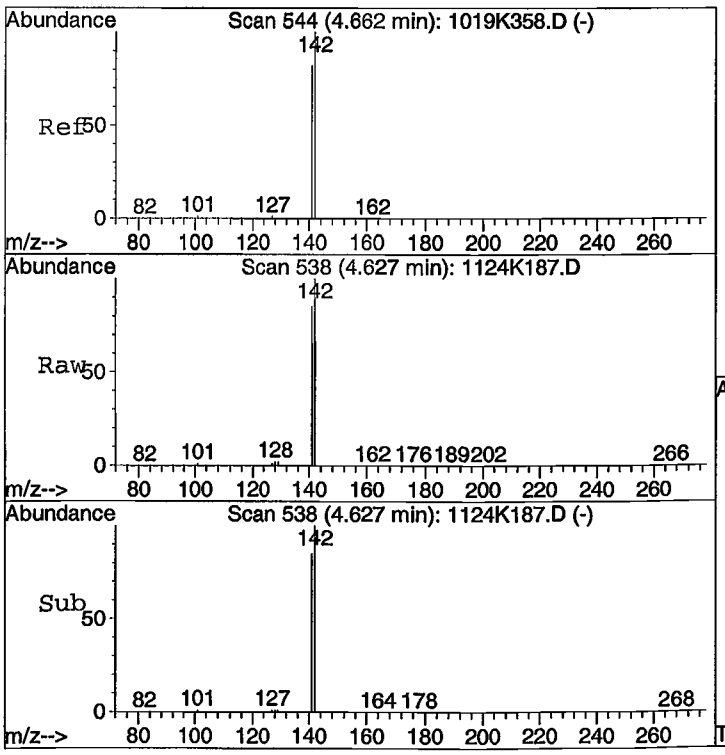




#2
Naphthalene
Concen: 34.68487 ppb
RT: 3.88 min Scan# 408
Delta R.T. -0.00 min
Lab File: 1124K187.D
Acq: 8 Dec 21 14:15

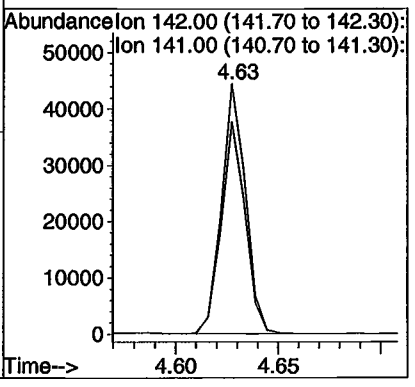
Tgt Ion:128	Resp:	165293	
Ion	Ratio	Lower	Upper
128	100		
129	10.8	12.7	23.5#
127	12.9	14.0	26.0#

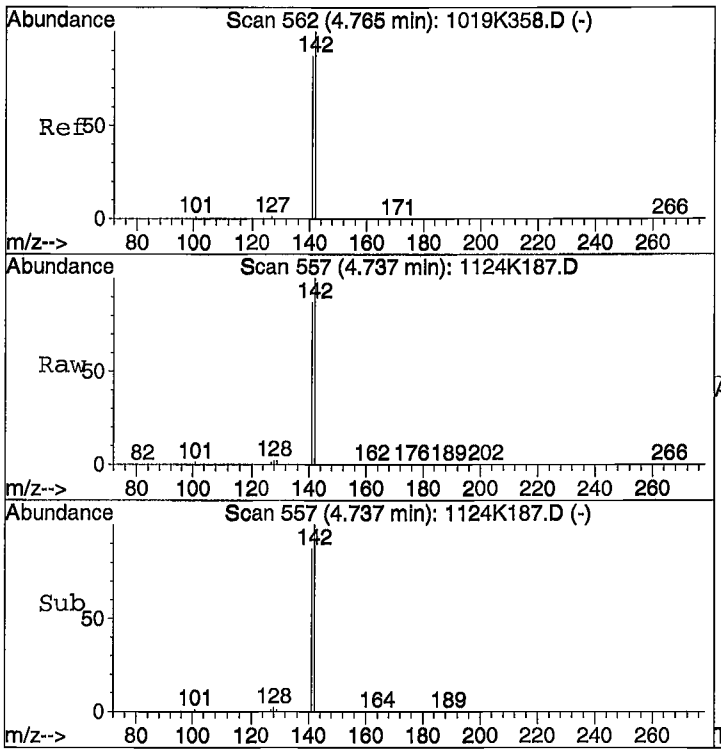




#4
2-Methylnaphthalene
Concen: 13.01341 ppb
RT: 4.63 min Scan# 538
Delta R.T. -0.00 min
Lab File: 1124K187.D
Acq: 8 Dec 21 14:15

Tgt Ion:142	Resp:	36346	
Ion	Ratio	Lower	Upper
142	100		
141	84.8	87.0	161.6#

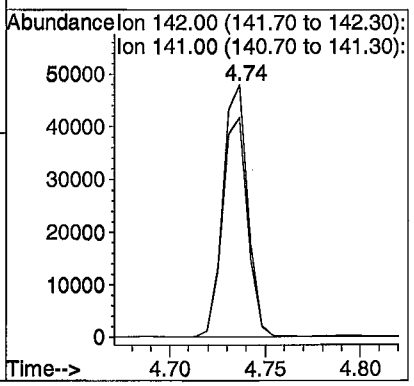




#5
1-Methylnaphthalene
Concen: 15.50029 ppb
RT: 4.74 min Scan# 557
Delta R.T. -0.00 min
Lab File: 1124K187.D
Acq: 8 Dec 21 14:15

Tgt Ion:142 Resp: 43691

Ion	Ratio	Lower	Upper
142	100		
141	87.0	70.7	131.3



Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K188.D Vial: 38
Acq On : 8 Dec 21 14:35 Operator: LS
Sample : BA47134W07 1/950 Inst : KYLO
Misc : Multiplr: 1.05

Quant Time: Dec 8 15:00 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	3.86	136	10703	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	5.79	164	5371	2.50000 ppb	-0.07
10) Phenanthrene-D10(IS)	7.49	188	8370	2.50000 ppb	-0.07
15) Chrysene-D12(IS)	10.55	240	9714	2.50000 ppb	-0.07
20) Perylene-D12(IS)	12.71	264	9088	2.50000 ppb	-0.12
System Monitoring Compounds					
3) 2-Methylnaphthalene-D10 (2	4.59	152	25669	4.94368 ppb	0.00
Spiked Amount 5.263			Recovery =	93.936%	
13) Fluoranthene-D10 (FRT)	8.86	212	28657	4.62319 ppb	-0.07
Spiked Amount 5.263			Recovery =	87.837%	

Target Compounds Qvalue

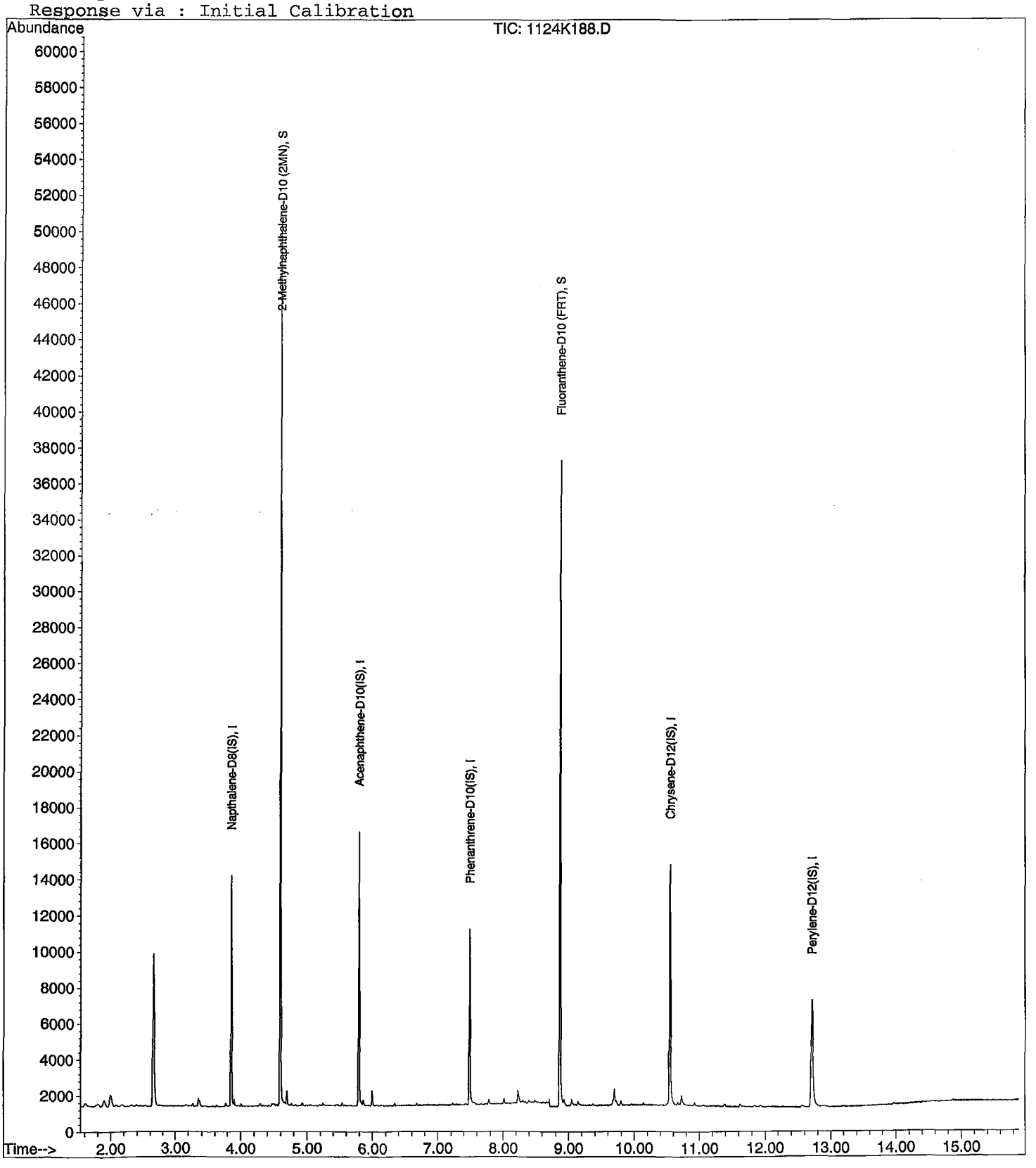
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K188.D Vial: 38
Acq On : 8 Dec 21 14:35 Operator: LS
Sample : BA47134W07 1/950 Inst : KYLO
Misc : Multiplr: 1.05

Quant Time: Dec 8 15:00 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K183.D Vial: 33
Acq On : 8 Dec 21 12:55 Operator: LS
Sample : 211206A BLK 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Dec 8 14:01 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	3.86	136	9005	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	5.79	164	4459	2.50000 ppb	-0.07
10) Phenanthrene-D10(IS)	7.49	188	7484	2.50000 ppb	-0.07
15) Chrysene-D12(IS)	10.55	240	8664	2.50000 ppb	-0.07
20) Perylene-D12(IS)	12.72	264	7951	2.50000 ppb	-0.11
System Monitoring Compounds					
3) 2-Methylnaphthalene-D10 (2	4.59	152	24562	5.34135 ppb	0.00
Spiked Amount 5.000			Recovery	= 106.820%	
13) Fluoranthene-D10 (FRT)	8.87	212	30303	5.19412 ppb	-0.07
Spiked Amount 5.000			Recovery	= 103.880%	
Target Compounds					Qvalue

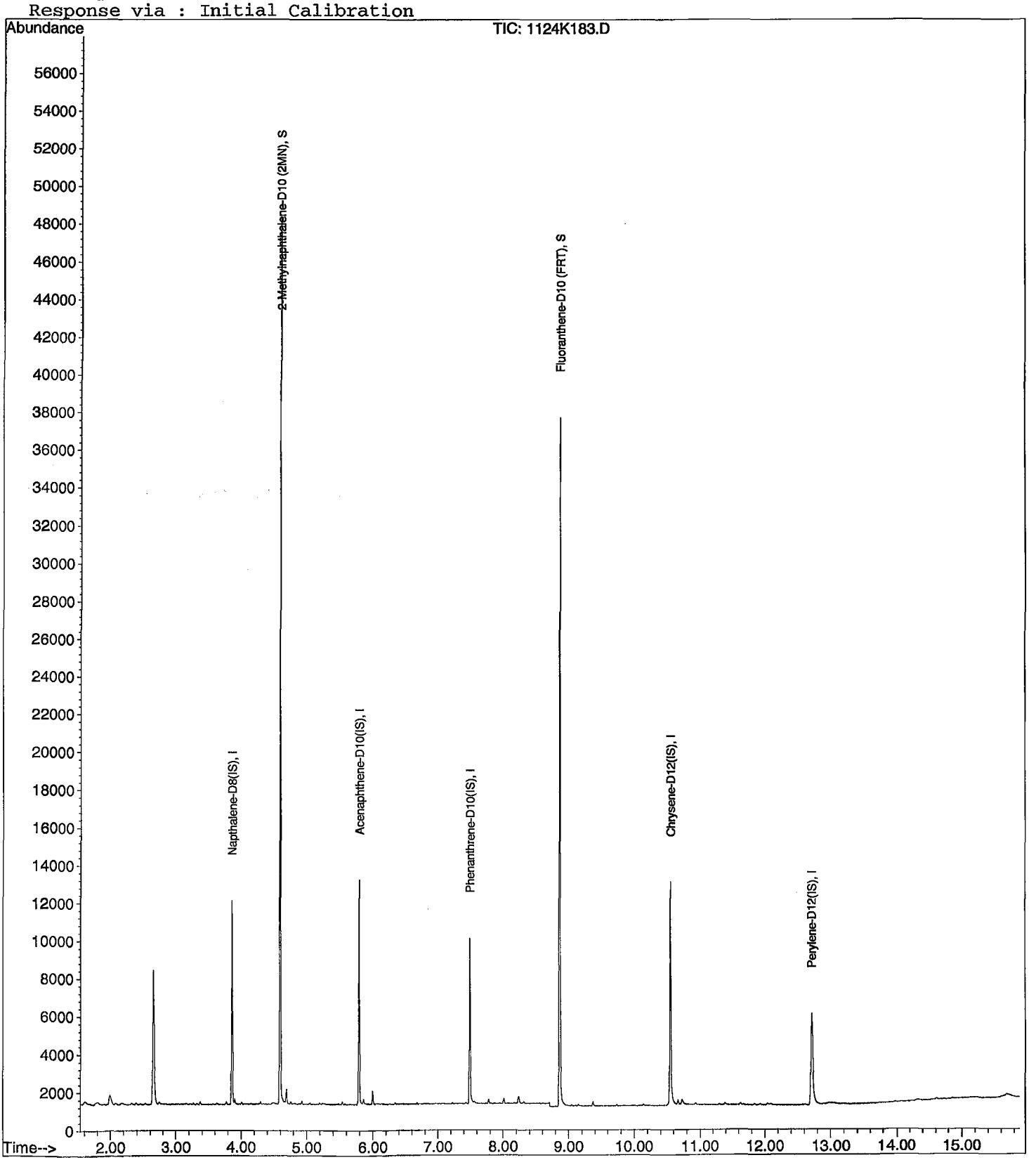
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K183.D Vial: 33
Acq On : 8 Dec 21 12:55 Operator: LS
Sample : 211206A BLK 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Dec 8 14:01 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K184.D Vial: 34
Acq On : 8 Dec 21 13:15 Operator: LS
Sample : 211206A LCS-1 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Dec 8 14:01 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Napthalene-D8(IS)	3.86	136	9418	2.50000 ppb		0.00
6) Acenaphthene-D10(IS)	5.79	164	4684	2.50000 ppb		-0.07
10) Phenanthrene-D10(IS)	7.49	188	7476	2.50000 ppb		-0.07
15) Chrysene-D12(IS)	10.54	240	9062	2.50000 ppb		-0.07
20) Perylene-D12(IS)	12.71	264	8405	2.50000 ppb		-0.13
System Monitoring Compounds						
3) 2-Methylnaphthalene-D10 (2	4.59	152	25281	5.25662 ppb		0.00
Spiked Amount 5.000			Recovery	= 105.140%		
13) Fluoranthene-D10 (FRT)	8.86	212	29779	5.10977 ppb		-0.07
Spiked Amount 5.000			Recovery	= 102.200%		
Target Compounds						Qvalue
2) Naphthalene	3.88	128	23568	4.81744 ppb	#	84
4) 2-Methylnaphthalene	4.63	142	13970	4.87235 ppb	#	65
5) 1-Methylnaphthalene	4.73	142	14050	4.85548 ppb		87
7) Acenaphthylene	5.63	152	48055	4.95560 ppb		99
8) Acenaphthene	5.82	154	12198	4.74916 ppb		99
9) Fluorene	6.42	166	14357	4.82370 ppb		100
11) Phenanthrene	7.52	178	18705	4.54642 ppb		99
12) Anthracene	7.57	178	18014	4.63572 ppb		99
14) Fluoranthene	8.89	202	30714	4.80555 ppb		100
16) Pyrene	9.14	202	31485	4.53782 ppb		100
17) Benz (a) anthracene	10.53	228	23248	4.57710 ppb		99
18) Chrysene	10.57	228	24844	4.39953 ppb		99
19) Indeno (1,2,3-cd) pyrene	14.28	276	17308	4.27200 ppb	#	86
21) Benzo (b) fluoranthene	12.03	252	22221	4.69442 ppb		98
22) Benzo (k) fluoranthene	12.08	252	23415	4.32574 ppb		99
23) Benzo (a) pyrene	12.60	252	20396	4.52388 ppb		98
24) Dibenz (a,h) anthracene	14.33	278	19344	4.33925 ppb		96
25) Benzo (g,h,i) perylene	14.59	276	21256	4.38139 ppb		98

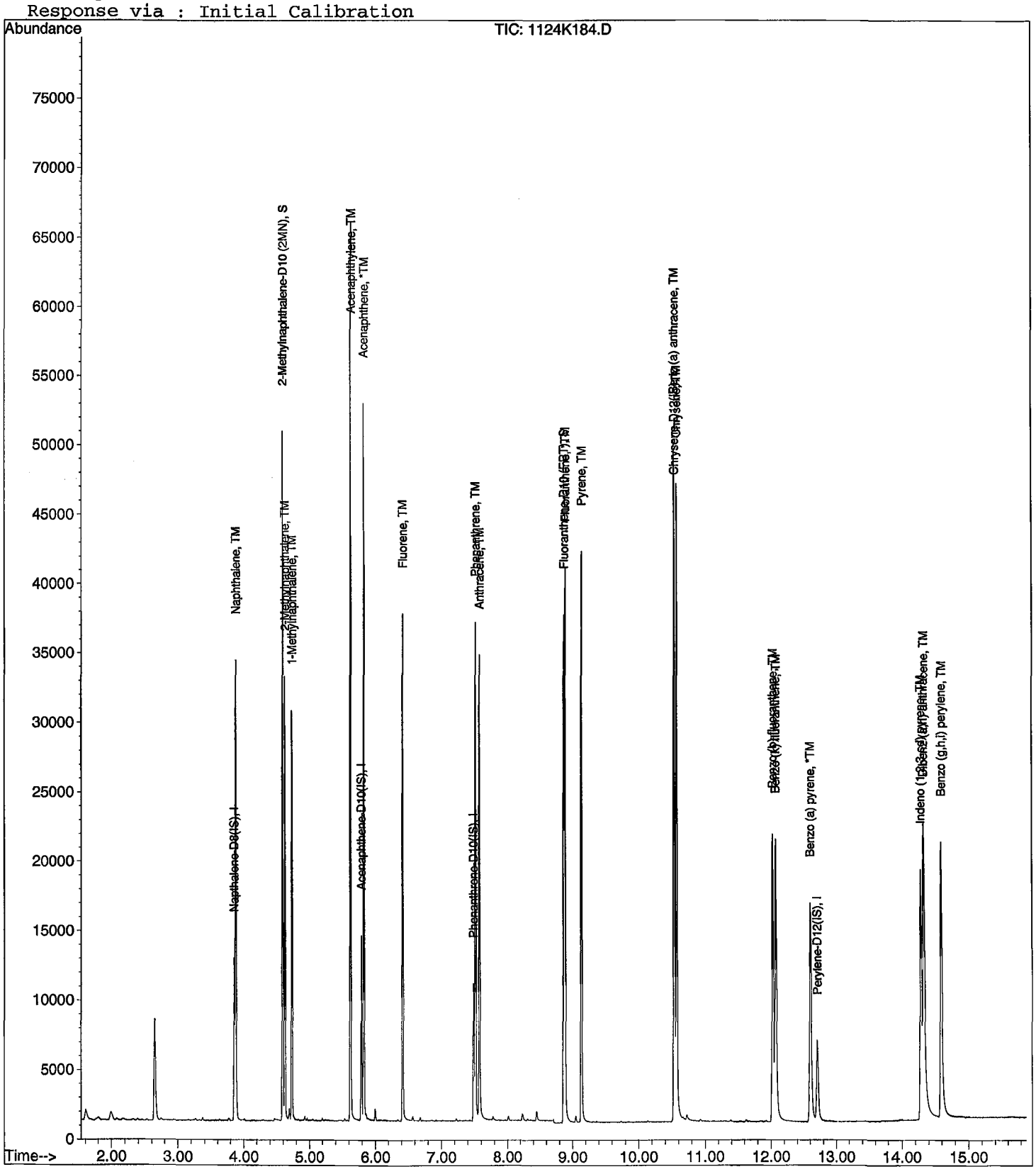
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K184.D Vial: 34
Acq On : 8 Dec 21 13:15 Operator: LS
Sample : 211206A LCS-1 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Dec 8 14:01 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\KYLO\DATA\211124\1124K185.D Vial: 35
Acq On : 8 Dec 21 13:35 Operator: LS
Sample : 211206A LCSD-1 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Dec 8 14:01 2021 Quant Results File: K1019.RES

Quant Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration
DataAcq Meth : SIM_2

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Napthalene-D8(IS)	3.86	136	10355	2.50000 ppb	0.00
6) Acenaphthene-D10(IS)	5.79	164	5149	2.50000 ppb	-0.07
10) Phenanthrene-D10(IS)	7.49	188	8051	2.50000 ppb	-0.07
15) Chrysene-D12(IS)	10.54	240	9672	2.50000 ppb	-0.07
20) Perylene-D12(IS)	12.71	264	8981	2.50000 ppb	-0.12
System Monitoring Compounds					
3) 2-Methylnaphthalene-D10 (2	4.59	152	25494	4.82124 ppb	0.00
Spiked Amount 5.000			Recovery =	96.420%	
13) Fluoranthene-D10 (FRT)	8.86	212	30172	4.80745 ppb	-0.07
Spiked Amount 5.000			Recovery =	96.140%	
Target Compounds					Qvalue
2) Naphthalene	3.88	128	23746	4.41461 ppb #	84
4) 2-Methylnaphthalene	4.63	142	14245	4.51870 ppb #	65
5) 1-Methylnaphthalene	4.73	142	14313	4.49878 ppb	89
7) Acenaphthylene	5.63	152	48983	4.59513 ppb	99
8) Acenaphthene	5.82	154	12560	4.44848 ppb	98
9) Fluorene	6.42	166	14816	4.52837 ppb	99
11) Phenanthrene	7.52	178	19262	4.34743 ppb	99
12) Anthracene	7.57	178	18418	4.40118 ppb	99
14) Fluoranthene	8.89	202	31279	4.54442 ppb	100
16) Pyrene	9.14	202	32040	4.32658 ppb	99
17) Benz (a) anthracene	10.53	228	23411	4.31849 ppb	99
18) Chrysene	10.57	228	25547	4.23870 ppb	99
19) Indeno (1,2,3-cd) pyrene	14.28	276	16962	3.93808 ppb	93
21) Benzo (b) fluoranthene	12.03	252	21720	4.29429 ppb	98
22) Benzo (k) fluoranthene	12.08	252	24930	4.31024 ppb	99
23) Benzo (a) pyrene	12.60	252	20428	4.24039 ppb	97
24) Dibenz (a,h) anthracene	14.33	278	19588	4.11218 ppb	98
25) Benzo (g,h,i) perylene	14.59	276	21610	4.16868 ppb	93

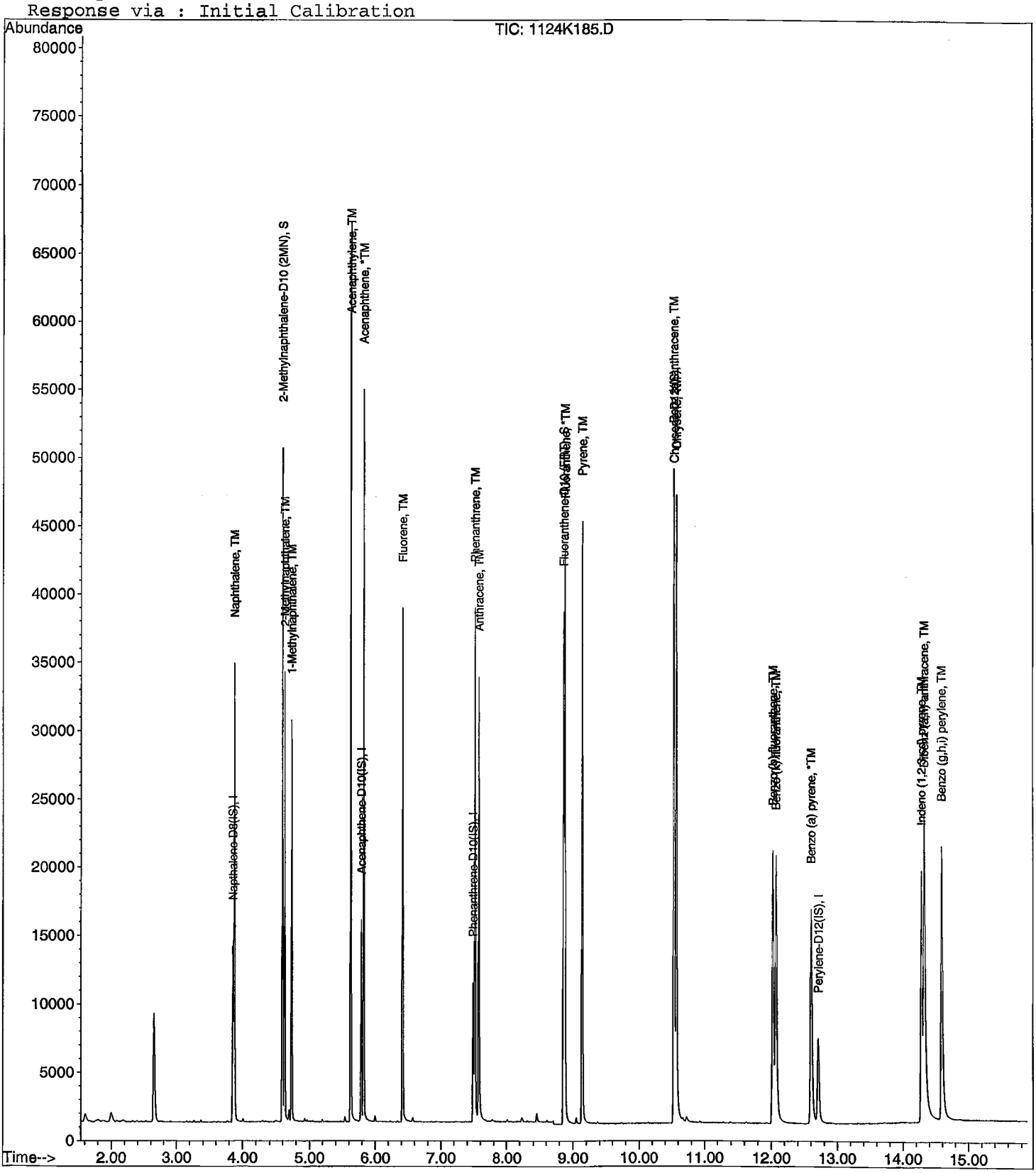
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\KYLO\DATA\211124\1124K185.D Vial: 35
Acq On : 8 Dec 21 13:35 Operator: LS
Sample : 211206A LCSD-1 1/1000 Inst : KYLO
Misc : Multiplr: 1.00

Quant Time: Dec 8 14:01 2021 Quant Results File: K1019.RES

Method : M:\KYLO\DATA\211124\K1019.M (RTE Integrator)
Title : EPA 8270
Last Update : Wed Dec 01 13:13:21 2021
Response via : Initial Calibration

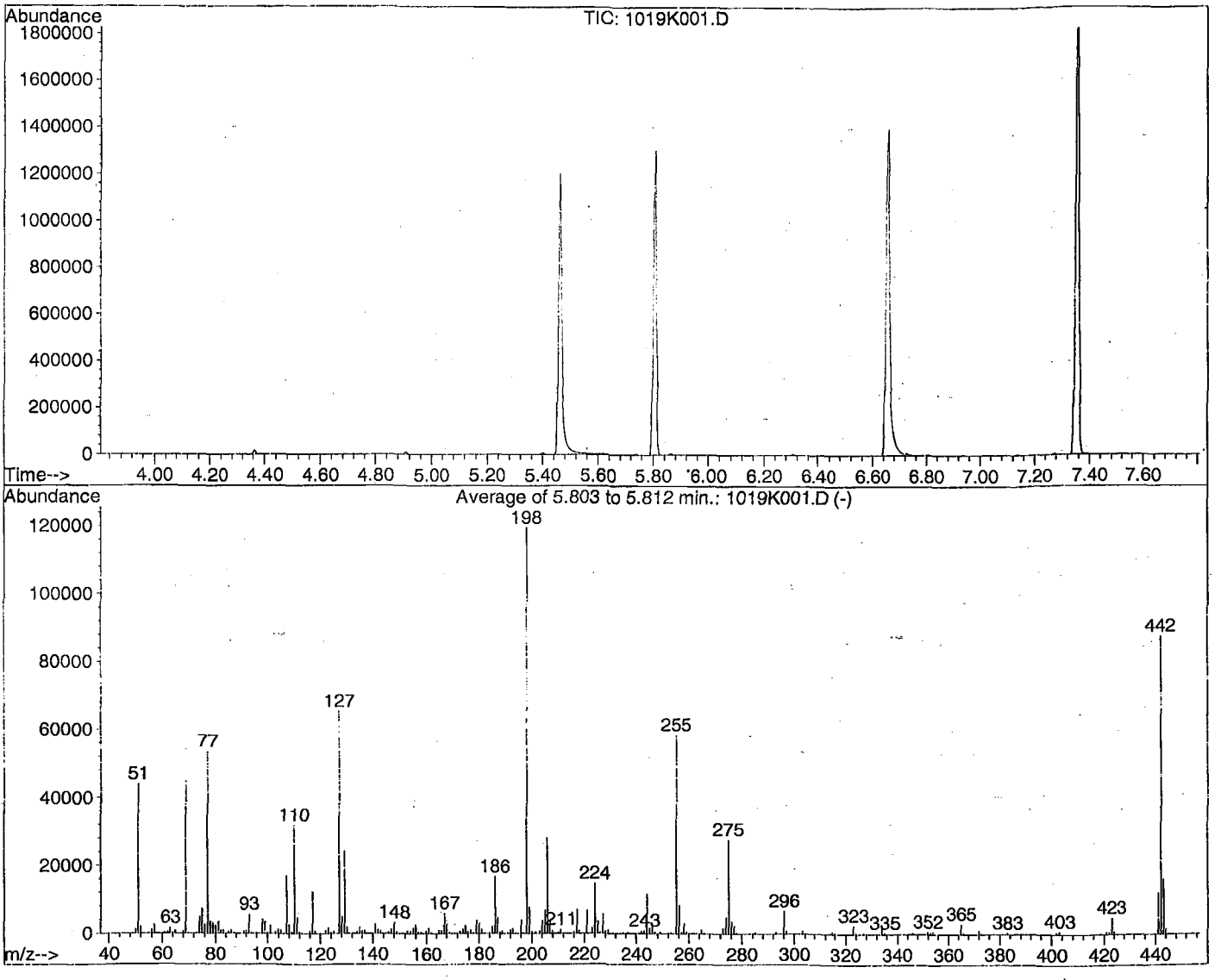


DFTPP

Data File : M:\KYLO\DATA\211019\1019K001.D
Acq On : 19 Oct 21 13:58
Sample : SV TUNE 7/2/21
Misc :

Vial: 1
Operator: LS
Inst : KYLO
Multiplr: 1.00

Method : M:\KYLO\DATA\211019\DFTPP2.M (Chemstation Integrator)
Title :



AutoFind: Scans 476, 477, 478; Background Corrected with Scan 470

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.8	44033	PASS
68	69	0.00	2	1.7	772	PASS
70	69	0.00	2	0.4	170	PASS
127	198	10	80	54.6	65376	PASS
197	198	0.00	2	0.2	185	PASS
198	198	100	100	100.0	119640	PASS
199	198	5	9	6.5	7734	PASS
275	198	10	60	23.2	27808	PASS
365	198	1	100	2.5	3043	PASS
441	442	0.01	24	13.9	12169	PASS
442	198	50	500	73.4	87760	PASS
443	442	15	24	18.4	16149	PASS

Data File Name:	**1019K001.D**
Data File Path:	**M:\KYLO\DATA\211019**
Operator:	**LS**
Date Acquired:	**19 Oct 2021 13:58**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 7/2/21**
Vial Number:	**1**
Instrument Name:	**KYLO**

#	Name	Ret Time	Target Response
1)	DDT	7.36	16763500
2)	DDD	7.13	0
3)	DDE	6.80	0

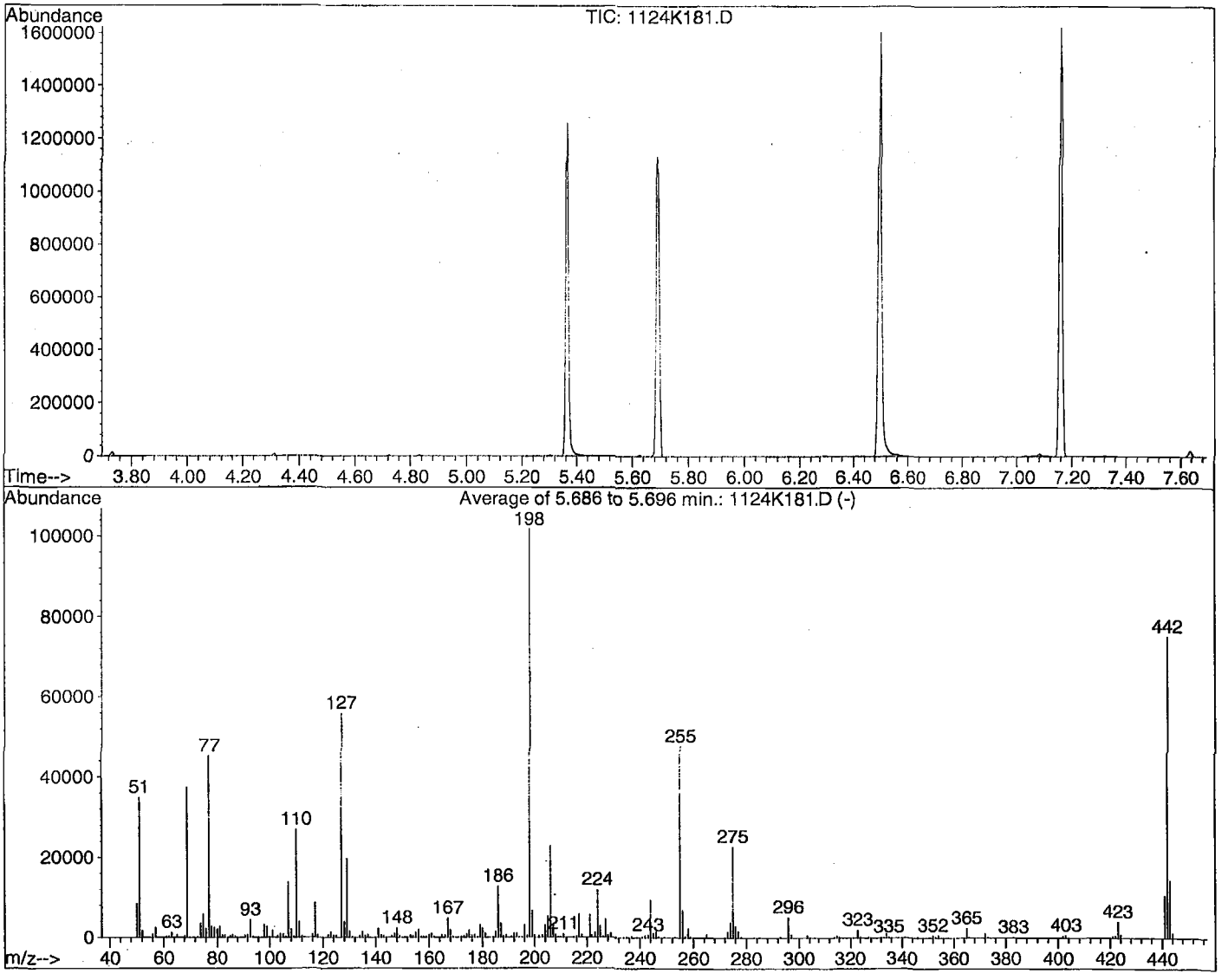
Breakdown **0.00**

DFTPP

Data File : M:\KYLO\DATA\211124\1124K181.D
Acq On : 8 Dec 21 12:23
Sample : SV TUNE 7/2/21
Misc :

Vial: 31
Operator: LS
Inst : KYLO
Multiplr: 1.00

Method : M:\KYLO\DATA\211124\DFTPP2.M (Chemstation Integrator)
Title :



AutoFind: Scans 451, 452, 453; Background Corrected with Scan 435

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.4	34980	PASS
68	69	0.00	2	1.5	549	PASS
70	69	0.00	2	0.5	191	PASS
127	198	10	80	54.9	55893	PASS
197	198	0.00	2	0.6	599	PASS
198	198	100	100	100.0	101808	PASS
199	198	5	9	6.6	6719	PASS
275	198	10	60	22.4	22823	PASS
365	198	1	100	2.4	2480	PASS
441	442	0.01	24	14.2	10719	PASS
442	198	50	500	73.9	75256	PASS
443	442	15	24	19.2	14457	PASS

Data File Name:	**1124K181.D**
Data File Path:	**M:\KYLO\DATA\211124**
Operator:	**LS**
Date Acquired:	**8 Dec 21 12:23**
Method File:	**DFTPP2.M**
Sample Name:	**SV TUNE 7/2/21**
Vial Number:	**31**
Instrument Name:	**KYLO**

#	Name	Ret Time	Target Response
1)	DDT	7.17	13838400
2)	DDD	6.95	0
3)	DDE	6.65	0

Breakdown **0.00**

Name of Final Standard: **SIM Curve** Prep'd By (Initials): **LS**

Prep Date: **10/13/2021**

Exp Date: **6/17/2022**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	**9/9/2021**	**6/17/2022**	10 uL	100uL	**MC 61117 90uL**	0.1 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	**6/17/2021**	**6/17/2022**	2 uL	*	*	2.5ug/mL
1.0 ug/mL SIM	APPL	1.0 ug/mL SIM	1.0 ug/mL	**9/9/2021**	**6/17/2022**	20 uL	100uL	**MC 61117 80uL**	0.2 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	**6/17/2021**	**6/17/2022**	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	**9/9/2021**	**6/17/2022**	10 uL	100uL	**MC 61117 90uL**	0.5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	**6/17/2021**	**6/17/2022**	2 uL	*	*	2.5ug/mL
5.0 ug/mL SIM	APPL	5.0 ug/mL SIM	5.0 ug/mL	**9/9/2021**	**6/17/2022**	20 uL	100uL	**MC 61117 80 uL**	1.0 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	**6/17/2021**	**6/17/2022**	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	**6/17/2021**	**6/17/2022**	5 uL	200uL	**MC 61117 190 uL**	5.0 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	**6/17/2021**	**6/17/2022**	5 uL	*	*	2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	**6/17/2021**	**6/17/2022**	4 uL	*	*	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	**6/17/2021**	**6/17/2022**	5 uL	100 uL	**MC 61117 90 uL**	10 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	**6/17/2021**	**6/17/2022**	5 uL	*	*	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	**6/17/2021**	**6/17/2022**	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	**6/17/2021**	**6/17/2022**	25 uL	100uL	**MC 61117 50 uL**	50 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	**6/17/2021**	**6/17/2022**	25 uL	*	*	25 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	**6/17/2021**	**6/17/2022**	2 uL	*	*	2.5ug/mL
SIM STOCK	APPL	SIM STOCK	200 ug/mL	**6/17/2021**	**6/17/2022**	50 uL	100uL	**na**	100 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	**6/17/2021**	**6/17/2022**	50 uL	*	*	50 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	**6/17/2021**	**6/17/2022**	2 uL	*	*	2.5ug/mL

Name of Final Standard: **8270 PAH SIM Second Source** Prep'd By (Initials): **LS**

Prep Date: **10/13/2021**

Exp Date: **6/17/2022**

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc. (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
PAH SIM SS Stock	Phenova	AL0-130490	200 ug/mL	**6/17/2021**	**6/17/2022**	5 uL	200uL	**MC 61117 195uL**	5 ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	**6/17/2021**	**6/17/2022**	4 uL	*	*	2.5ug/mL

Name of Final Standard	PAH SIM Stock (Ampule)	Prep'd By (Initials)	LS
Prep Date	6/17/2021		
Exp Date	6/17/2022		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	ALO-130490	200 ug/mL	**CL13121-52443**	**12/31/2022**	1000 uL	1mL	**NA**	200 ug/mL

Name of Final Standard	SIM Surrogate	Prep'd By (Initials)	LS
Prep Date	6/17/2021		
Exp Date	6/17/2022		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	**A0161454-50793**	**5/31/2026**	1 mL	20 mL	**Acetone #0246130**	100 ug/mL

Name of Final Standard	8270 SIM PAH Internal Standard	Prep'd By (Initials)	LS
Prep Date	6/17/2021		
Exp Date	6/17/2022		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SV Internal Standard	Restek	31206	2000 ug/mL	**A0162879-50593**	**6/30/2026**	625uL	10mL	**MC 60338**	125 ug/mL

Name of Final Standard	SIM SS Stock (Ampule second source)	Prep'd By	LS
Prep Date	6/17/2021		
Exp Date	6/17/2022		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH SIM Mix	Phenova	ALO-130490	200 ug/mL	**CL13117-51757**	**12/31/2022**	1000 uL	1mL	**NA**	200 ug/mL

Name of Final Standard	**5 SIM CCV (2x)**	**Prep'd By (Initials)**	**LS**
Prep Date	**10/19/2021**		
Exp Date	**6/17/2022**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SIM STOCK	APPL	SIM STOCK	200 ug/mL	**6/17/2021**	**12/31/2022**	5 uL	200uL	**MC 61117 190 uL**	5.0 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	**6/17/2021**	**5/31/2026**	5 uL	*	*	2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	**6/17/2021**	**6/30/2026**	4 uL	*	*	2.5ug/mL

Name of Final Standard	SIM Surrogate	Prep'd By (Initials)	LS/IC
Prep Date	9/21/2021		
Exp Date	9/21/2022		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0173323-52639	5/31/2027	1 mL	20 mL	Acetone #0246130	100 ug/mL

Name of Final Standard	SIM Surrogate	Prep'd By (Initials)	LS
Prep Date	8/24/2021		
Exp Date	8/24/2022		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contlaner Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0173323-52640	5/31/2027	1 mL	20 mL	Acetone #0246130	100 ug/mL

Name of Final Standard	**SIM Spike**	**Prep'd By (Initials)**	**LS**
Prep Date	**8/5/2021**		
Exp Date	**5/28/2022**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Custom PAH Sim Mix	Phenova	AL0-130490	200 ug/mL	**CL13121-50766,50767,50771,52444,52445**	**5/28/2022**	5 mL	25 mL	**Acetone 0246130**	40 ug/mL

Name of Final Standard	**5 SIM CCV (2x)**	**Prep'd By (Initials)**	**LS**
Prep Date	**10/19/2021**		
Exp Date	**6/17/2022**		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
SIM STOCK	APPL	SIM STOCK	200 ug/mL	**6/17/2021**	**12/31/2022**	5 uL	200uL	**MC 61117 190 uL**	5.0 ug/mL
SIM SURROGATE	APPL	SIM SURR	100 ug/mL	**6/17/2021**	**5/31/2026**	5 uL	*	*	2.5ug/mL
SIM Internal Standard	APPL	SIM Internal Standard	125 ug/mL	**6/17/2021**	**6/30/2026**	4 uL	*	*	2.5ug/mL

Name of Final Standard	SIM Surrogate	Prep'd By (Initials)	LS
Prep Date	8/24/2021		
Exp Date	8/24/2022		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0173323-52640	5/31/2027	1 mL	20 mL	Acetone #0246130	100 ug/mL

Name of Final Standard	SIM Surrogate	Prep'd By (Initials)	LS/IC
Prep Date	9/21/2021		
Exp Date	9/21/2022		

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Sim Surrogate Deuterated	Restek	33913	2000 ug/mL	A0173323-52639	5/31/2027	1 mL	20 mL	Acetone #0246130	100 ug/mL

Organic Extraction Worksheet

Method	Continuous Liquid/Liquid SVOC 3520C	Extraction Set	211206A	Extraction Method	LIQ003	Units	mL

Spiked ID 1	Sim Spike 10-21-21 10-21-22		Surrogate ID 1	SIM Surrogate 11-10-21 11-10-22	
Spiked ID 2			Surrogate ID 2		
Spiked ID 3			Surrogate ID 3		
Spiked ID 4			Surrogate ID 4		
Spiked ID 5			Surrogate ID 5		
Spiked ID 6			Sufficient Vol for Matrix QC:	NO	
Spiked ID 7			Ext. Start Time:	12/06/21 9:00	
Spiked ID 8			Ext. End Time:	12/07/21 6:25	
			GC Requires Extract By:		

pH1	14	12/06/21 9:07	Water Bath Temp 1 °C	75/74.5 E-WB5 °
pH2			Water Bath Temp 2 °C	
pH3			Water Bath Temp 3 °C	

Spiked By: SR **Date** 12/6/2021 **Witnessed By:** KY **Date** 12/6/2021

	Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	211206A Blk				0.050	1	1000	1	14	12/06/21 9:00	
						equip	E-HP10 E-WB5				
2	211206A LCS-1		0.125	1	0.050	1	1000	1	14	12/06/21 9:00	
						equip	E-HP11 E-WB5				
3	211206A LCSD-1		0.125	1	0.050	1	1000	1	14	12/06/21 9:00	
						equip	E-HP12 E-WB5				
4	BA47128	BA47128W08			0.050	1	950	1	14	12/06/21 9:00	98381
						equip	E-HP13 E-WB5				
5	BA47132	BA47132W07			0.050	1	950	1	14	12/06/21 9:00	98381
						equip	E-HP14 E-WB5				
6	BA47134	BA47134W07			0.050	1	950	1	14	12/06/21 9:00	98381
						equip	E-HP15 E-WB5				

Solvent and Lot#	
PH Strips	HC160347
Dichloromethane (DCM)	61117
10N NaOH (10mLs)	11-20-21- 11-2
Filter Paper	400202
Na2SO4	2021071206

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	CW
Date	12-7-21
Time	1335
Refrigerator	GC-C

	Technician's Initials
Scanned By	SR
Sample Preparation	SR
Extraction	SR
Concentration	CG

Modified	12/7/2021 12:00:07 PM

Reviewed By: KY **Date** 12/7/2021

Injection Log

Directory: M:\KYLO\DATA\211124\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1019K001.D	1	SV TUNE 7/2/21		19 Oct 21 13:58
2	2	1019K002.D	1	0.1 ug/ml 10/13/21		19 Oct 21 14:09
3	3	1019K003.D	1	0.2 ug/ml 10/13/21		19 Oct 21 14:29
4	4	1019K004.D	1	0.5 ug/ml 10/13/21		19 Oct 21 14:49
5	5	1019K005.D	1	1 ug/ml 10/13/21		19 Oct 21 15:09
6	6	1019K006.D	1	5 ug/ml 10/13/21		19 Oct 21 15:29
7	7	1019K007.D	1	10 ug/ml 10/13/21		19 Oct 21 15:49
8	8	1019K008.D	1	50 ug/ml 10/13/21		19 Oct 21 16:09
9	9	1019K009.D	1	100 ug/ml 10/13/21		19 Oct 21 16:29
10	10	1019K010.D	1	SS ug/ml 10/13/21		19 Oct 21 16:49
1	31	1124K181.D	1	SV TUNE 7/2/21		8 Dec 21 12:23
2	32	1124K182.D	1	5 ug/ml 10/19/21 (2)		8 Dec 21 12:35
3	33	1124K183.D	1	211206A BLK 1/1000		8 Dec 21 12:55
4	34	1124K184.D	1	211206A LCS-1 1/1000		8 Dec 21 13:15
5	35	1124K185.D	1	211206A LCSD-1 1/1000		8 Dec 21 13:35
6	36	1124K186.D	1.05263	BA47128W08 1/950		8 Dec 21 13:55
7	37	1124K187.D	1.05263	BA47132W07 1/950		8 Dec 21 14:15
8	38	1124K188.D	1.05263	BA47134W07 1/950		8 Dec 21 14:35
9	48	1124K198.D	1	5 ug/ml 10/19/21 (1)		8 Dec 21 17:54

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 12/6/2021
Matrix: WATER Instrument: Zeus
Initials: MH

		Compound	1206Z17.D 1	1206Z18.D 2	1206Z19.D 3	1206Z20.D 4	1206Z21.D 5	1206Z22.D 6	1206Z23.D 7	1206Z24.D 8	1206Z25.D 9		Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)																
2	TM	Chlorotrifluoroethene													TM			
3	TM	Dichlorodifluoromethane	0.1640	0.1511	0.1507	0.1699	0.1185	0.1266	0.1295	0.1331	0.1295		0.14	13	TM			
4	TML	Freon 114	0.1665	0.1422	0.1337	0.1498	0.0974	0.1072	0.1034	0.0936			0.12	22	TM	0.997		
5	TM**L	Chloromethane	0.1697	0.1403	0.1382	0.1428	0.1155	0.1074	0.0955	0.0911			0.13	22	TM**	0.998		
6	TM*	Vinyl chloride	0.1418	0.1331	0.1326	0.1321	0.1166	0.1091	0.1087	0.1085	0.1064		0.12	11	TM*			
7		Butane																
8	TML	2-Chloro-1,1,1-trifluoroethane													TM			
9	TML	Bromomethane	0.1563	0.1304	0.0919	0.0639	0.0474	0.0368	0.0312	0.0297	0.0277		0.07	70	TM	0.999		
10	TMQ	Chloroethane	0.0342	0.0382	0.0295	0.0299	0.0256	0.0205	0.0162	0.0118	0.0072		0.02	44	TM	0.991		
11	TML	Dichlorofluoromethane	0.2923	0.3259	0.2788	0.2780	0.2469	0.2437	0.2294	0.2181			0.26	14	TM	0.999		
12	TM	Trichlorofluoromethane	0.2220	0.2348	0.2270	0.2399	0.2124	0.2094	0.2050	0.2024	0.1846		0.22	8.1	TM			
13	TML	Pentane													TM			
14	TML	Diethyl ether			0.0117	0.0129	0.0142	0.0145	0.0152	0.0158	0.0159		0.01	11	TM	1.000		
15	TML	1,2 Dichlorotrifluoroethane	0.2923	0.3259	0.2788	0.2780	0.2469	0.2437	0.2294	0.2181	0.1805		0.25	17	TM	0.993		
16	TM	Acrolein	0.0062	0.0066	0.0067	0.0068	0.0068	0.0067	0.0067	0.0062	0.0063		0.01	3.8	TM			
17	TM	Acetone	0.0175	0.0210	0.0192	0.0183	0.0182	0.0183	0.0182	0.0176	0.0173		0.02	6.2	TM			
18	TM	Freon-113	0.0802	0.0746	0.0729	0.0658	0.0542	0.0627	0.0609	0.0612	0.0555		0.07	14	TM			
19	TM*	1,1-DCE	0.1801	0.1819	0.1838	0.1880	0.1558	0.1561	0.1565	0.1491	0.1390		0.17	11	TM*			
20	TML	2-Propanol													TM			
21	TMQ	Acetonitrile	0.0066	0.0041	0.0034	0.0031	0.0026	0.0022	0.0022	0.0019	0.0016		0.00	50	TM	0.990		
22	TM	t-Butanol	0.0026	0.0023	0.0023	0.0023	0.0024	0.0025	0.0025	0.0025	0.0021		0.00	6.6	TM			
23	TML	Methyl Acetate	0.0585	0.0545	0.0506	0.0482	0.0477	0.0463	0.0454	0.0452	0.0457		0.05	9.4	TM	1.00		
24	TML	Iodomethane	0.1119	0.1100	0.0929	0.0859	0.0815	0.0881	0.0872	0.0899	0.0793		0.09	13	TM	0.997		
25	TML	Acrylonitrile		0.0090	0.0200	0.0259	0.0249	0.0251	0.0252	0.0245	0.0228		0.02	25	TM	0.999		
26	TML	Methylene chloride	0.1602	0.1571	0.1521	0.1452	0.1294	0.1235	0.1156	0.1102	0.1023		0.13	16	TM	0.999		
27	TML	Carbon disulfide	0.3240	0.2894	0.2704	0.2777	0.1923	0.1959	0.1873	0.1828	0.1665		0.23	25	TM	0.999		
28	TM	Methyl t-butyl ether (MtBE)	0.2660	0.2186	0.2343	0.2385	0.2435	0.2574	0.2626	0.2712	0.2664		0.25	7.2	TM			
29	TM	Trans-1,2-DCE	0.1928	0.1849	0.1823	0.1821	0.1604	0.1556	0.1518	0.1466	0.1350		0.17	12	TM			
30	TML	Hexane	0.1230	0.2071	0.2150	0.2271	0.2307	0.2535	0.2565	0.2624	0.2481		0.22	19	TM	0.999		
31	TM	Diisopropyl Ether	0.2007	0.2157	0.2281	0.2183	0.2239	0.2339	0.2390	0.2428	0.2416		0.23	6.1	TM			
32	TM**L	2,2-Dichloro-1,1,1-trifluoroetha	0.0109	0.0083	0.0126	0.0151	0.0129	0.0137	0.0126	0.0122	0.0106		0.01	16	TM**	0.996		
33	TM**	1,1-DCA	0.2320	0.2360	0.2323	0.2317	0.2165	0.2099	0.2007	0.1956	0.1833		0.22	8.9	TM**			
34	TM	Vinyl Acetate	0.1894	0.1936	0.1770	0.1691	0.1706	0.1811	0.1819	0.1837	0.1763		0.18	4.5	TM			
35	TM	Ethyl tert Butyl Ether	0.2152	0.2343	0.2313	0.2396	0.2437	0.2615	0.2680	0.2752	0.2771		0.25	8.7	TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 12/6/2021
Matrix: WATER Instrument: Zeus Initials: MH

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
36	TML	MEK (2-Butanone)	0.0036	0.0070	0.0074	0.0074	0.0081	0.0092	0.0095	0.0100	0.0106		0.01	26	TM	0.993		
37	TM	Cis-1,2-DCE	0.2141	0.2028	0.2025	0.1990	0.1874	0.1845	0.1781	0.1728	0.1615		0.19	8.9	TM			
38	TM	2,2-Dichloropropane	0.1985	0.2119	0.2074	0.2063	0.1901	0.1938	0.1895	0.1842	0.1725		0.19	6.4	TM			
39	TML	2-Methylpentane	0.0539	0.0882	0.0814	0.0860	0.0857	0.0905	0.0907	0.0950	0.0893		0.08	14	TM	0.999		
40	TML	3-Methylpentane	0.1056	0.1831	0.1968	0.2257	0.2198	0.2320	0.2392	0.2496	0.2385		0.21	21	TM	1.000		
41	TM*	Chloroform	0.2506	0.2618	0.2470	0.2503	0.2381	0.2383	0.2303	0.2228	0.2092		0.24	6.7	TM*			
42	TM	Bromochloromethane	0.0677	0.0811	0.0821	0.0797	0.0795	0.0779	0.0741	0.0722	0.0677		0.08	7.3	TM			
43	SL	Dibromofluoromethane(S)	0.1704	0.1728	0.2228	0.2153	0.2474	0.2418	0.2463	0.2400	0.2377		0.22	14	S	0.999		
44	TM	1,1,1-TCA	0.1964	0.2170	0.2214	0.2238	0.2077	0.2187	0.2161	0.2113	0.1989		0.21	4.6	TM			
45	TML	Cyclohexane	0.2236	0.2306	0.2099	0.2239	0.1746	0.1971	0.2013	0.1984			0.21	8.9	TM	1.000		
46	TM	1,1-Dichloropropene	0.1788	0.1769	0.1831	0.1818	0.1627	0.1752	0.1794	0.1793	0.1685		0.18	3.7	TM			
47	TM	2,2,4-Trimethylpentane	0.4350	0.4379	0.4006	0.4414	0.3292	0.3832	0.3977	0.3990	0.3899		0.40	8.7	TM			
48	S	1,2-DCA-D4(S)	0.1414	0.1477	0.1850	0.1824	0.2069	0.2047	0.2085	0.2043	0.2016		0.19	14	S			
49	TM	Carbon Tetrachloride	0.1590	0.1814	0.1869	0.1931	0.1789	0.1868	0.1893	0.1879	0.1779		0.18	5.5	TM			
50	TM	Tert Amyl Methyl Ether	0.2769	0.2760	0.2624	0.2651	0.2649	0.2810	0.2893	0.2990	0.3068		0.28	5.6	TM			
51	TML	Methylcyclopentane	0.1230	0.2071	0.2150	0.2271	0.2307	0.2535	0.2565	0.2624	0.2481		0.22	19	TM	0.999		
52	TM	1,2-DCA	0.1468	0.1465	0.1419	0.1438	0.1393	0.1373	0.1312	0.1271	0.1214		0.14	6.5	TM			
53	TM	Benzene	0.6459	0.6323	0.6321	0.5969	0.5735	0.5824	0.5744	0.5648	0.5344		0.59	6.2	TM			
54	TM	TCE	0.1754	0.1878	0.1834	0.1886	0.1734	0.1847	0.1861	0.1866	0.1764		0.18	3.2	TM			
55	TM	2-Pentanone	0.0354	0.0361	0.0382	0.0392	0.0431	0.0455	0.0493	0.0511	0.0527		0.04	15	TM			
56	TM*	1,2-Dichloropropane	0.1174	0.1250	0.1349	0.1349	0.1300	0.1364	0.1333	0.1311	0.1249		0.13	4.8	TM*			
57	TM	Bromodichloromethane	0.1452	0.1526	0.1540	0.1490	0.1558	0.1630	0.1634	0.1674	0.1641		0.16	4.9	TM			
58	TM	Methyl Cyclohexane	0.2560	0.2546	0.2567	0.2794	0.2132	0.2458	0.2582	0.2608	0.2539		0.25	6.9	TM			
59	TML	Dibromomethane	0.0949	0.0946	0.1051	0.1005	0.0974	0.0983	0.0975	0.0963	0.0936		0.10	3.6	TM	1.000		
60	TML	MIBK (methyl isobutyl ketone)	0.0387	0.0539	0.0569	0.0573	0.0605	0.0643	0.0679	0.0680	0.0704		0.06	16	TM	0.998		
61	TML	1-Bromo-2-chloroethane	0.0045	0.0070	0.0128	0.0196	0.0215	0.0228	0.0229	0.0230	0.0228		0.02	42	TM	1.00		
62	TML	2-Chloroethyl vinyl ether	0.0278	0.0311	0.0300	0.0310	0.0332	0.0347	0.0375	0.0373	0.0391		0.03	12	TM	0.996		
63	TM	Cis-1,3-Dichloropropene	0.1967	0.2037	0.1917	0.1896	0.1960	0.2107	0.2166	0.2223	0.2186		0.21	6.0	TM			
64	TM*	Toluene	0.8560	0.7819	0.7677	0.7522	0.6946	0.6968	0.6814	0.6650	0.6261		0.72	9.8	TM*			
65	TM	Trans-1,3-Dichloropropene	0.1656	0.1575	0.1595	0.1542	0.1618	0.1758	0.1814	0.1885	0.1882		0.17	7.9	TM			
66	TM	1,1,2-TCA	0.1223	0.1203	0.1120	0.1079	0.1134	0.1165	0.1190	0.1198	0.1176		0.12	4.0	TM			
67	TML	2-Hexanone	0.0183	0.0240	0.0255	0.0256	0.0272	0.0291	0.0302	0.0305	0.0310		0.03	15	TM	0.998		
68	I	Chlorobenzene-D5 (IS)																
69	SL	Toluene-D8(S)	0.7983	0.8206	1.050	1.051	1.217	1.212	1.270	1.261	1.258		1.1	17	S	1.000		
70	TML	1,2-EDB	0.0931	0.1050	0.1115	0.1082	0.1150	0.1236	0.1296	0.1352	0.1354		0.12	12	TM	1.000		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 12/6/2021
Matrix: WATER Instrument: Zeus Initials: MH

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
71	TML	Tetrachloroethene	0.2532	0.2372	0.2432	0.2351	0.2205	0.2294	0.2307	0.2328	0.2240		0.23	4.2	TM	1.000		
72	TML	1-Chlorohexane	0.2724	0.2747	0.2670	0.2721	0.2577	0.2660	0.2695	0.2733	0.2591		0.27	2.3	TM	1.000		
73	TML	1,1,1,2-Tetrachloroethane	0.1181	0.1250	0.1405	0.1332	0.1481	0.1553	0.1666	0.1752	0.1791		0.15	15	TM	1.000		
74	TM	m&p-Xylene	0.7394	0.7266	0.6954	0.7124	0.6839	0.7016	0.7029	0.6981	0.6579		0.70	3.4	TM			
75	TM	o-Xylene	0.7949	0.7438	0.6994	0.7089	0.6891	0.6983	0.7040	0.7028	0.6727		0.71	5.1	TM			
76	TML	Styrene	0.4855	0.4578	0.4472	0.4724	0.4742	0.5033	0.5290	0.5527	0.5500		0.50	7.9	TM	1.000		
77	SL	4-Bromofluorobenzene(S)	0.3265	0.3292	0.4231	0.4275	0.4960	0.4958	0.5208	0.5195	0.5192		0.45	18	S	1.000		
78	TM	1,3-Dichloropropane	0.2062	0.2006	0.2026	0.2032	0.2160	0.2250	0.2336	0.2380	0.2328		0.22	6.9	TM			
79	TML	Dibromochloromethane	0.0886	0.0951	0.1089	0.1132	0.1207	0.1290	0.1403	0.1502	0.1553		0.12	19	TM	1.000		
80	TM**	Chlorobenzene	0.5873	0.6025	0.5800	0.5568	0.5358	0.5470	0.5444	0.5382	0.5169		0.56	5.0	TM**			
81	TM*	Ethylbenzene	1.479	1.453	1.391	1.425	1.368	1.403	1.409	1.399	1.317		1.4	3.3	TM*			
82	TM**L	Bromoform	0.0307	0.0530	0.0558	0.0618	0.0701	0.0758	0.0852	0.0917	0.1012		0.07	31	TM**	0.998		
83	I	1,4-Dichlorobenzene-D (IS)																
84	TM	Isopropylbenzene	2.718	2.728	2.688	2.657	2.544	2.742	2.815	2.913	2.837		2.7	4.0	TM			
85	TM**L	1,1,2,2-Tetrachloroethane	0.3062	0.3598	0.3533	0.3396	0.3710	0.4066	0.4216	0.4471	0.4591		0.38	13	TM**	1.000		
86	TML	1,2,3-Trichloropropane	0.0160	0.1061	0.1371	0.1254	0.1377	0.1427	0.1487	0.1523	0.1555		0.12	35	TM	1.000		
87	TML	t-1,4-Dichloro-2-Butene	0.0293	0.0394	0.0553	0.0705	0.0931	0.1010	0.1047	0.1097	0.1118		0.08	40	TM	1.000		
88	TML	Bromobenzene	1.034	0.9811	0.9267	0.8756	0.8808	0.9181	0.9032	0.9287	0.9124		0.93	5.4	TM	1.000		
89	TM	n-Propylbenzene	3.326	3.350	3.312	3.122	3.039	3.187	3.272	3.355	3.284		3.2	3.4	TM			
90	TM	4-Ethyltoluene	2.911	2.782	2.687	2.693	2.627	2.770	2.802	2.851	2.784		2.8	3.2	TM			
91	TML	2-Chlorotoluene	2.224	2.257	2.151	2.057	2.074	2.114	2.134	2.157	2.093		2.1	3.1	TM	1.000		
92	TM	1,3,5-Trimethylbenzene	2.134	2.216	2.174	2.126	2.153	2.262	2.326	2.388	2.328		2.2	4.3	TM			
93	TM	4-Chlorotoluene	2.224	2.257	2.151	2.057	2.074	2.114	2.134	2.157	2.093		2.1	3.1	TM			
94	TM	Tert-Butylbenzene	2.123	2.199	2.134	2.062	2.011	2.086	2.176	2.219	2.185		2.1	3.3	TM			
95	TM	1,2,4-Trimethylbenzene	1.995	1.967	1.991	2.046	2.004	2.165	2.264	2.336	2.323		2.1	7.2	TM			
96	TM	Sec-Butylbenzene	2.962	3.061	2.993	2.882	2.838	3.045	3.133	3.195	3.131		3.0	3.9	TM			
97	TM	p-Isopropyltoluene	2.123	2.199	2.134	2.062	2.011	2.086	2.176	2.219	2.185		2.1	3.3	TM			
98	TML	Benzyl Chloride	0.8056	0.7997	0.7983	0.7474	0.8090	0.8571	0.9194	1.001	1.066		0.87	12	TM	0.999		
99	TM	1,3-DCB	1.406	1.374	1.434	1.307	1.284	1.322	1.322	1.345	1.321		1.3	3.6	TM			
100	TM	1,4-DCB	1.574	1.480	1.434	1.348	1.313	1.318	1.323	1.340	1.312		1.4	6.7	TM			
101	TM	n-Butylbenzene	2.024	1.999	2.027	2.018	2.008	2.250	2.355	2.425	2.410		2.2	8.7	TM			
102	TM	1,2-DCB	1.249	1.237	1.276	1.172	1.172	1.201	1.200	1.224	1.196		1.2	2.9	TM			
103	TML	Hexachloroethane	0.1374	0.2456	0.2819	0.2805	0.2946	0.3260	0.3600	0.4015	0.4485		0.31	29	TM	0.997		
104	TML	1,2-Dibromo-3-chloropropane		0.0116	0.0553	0.0646	0.0712	0.0769	0.0854	0.0937	0.1002		0.07	40	TM	0.999		
105	TM	1,2,4-Trichlorobenzene	0.9423	0.9490	0.9214	0.9117	0.8905	0.9475	0.9639	0.9967	1.013		0.95	4.1	TM			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 12/6/2021
Matrix: WATER Instrument: Zeus Initials: MH

		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type		Q	MRF
106	TML	Hexachlorobutadiene	0.4241	0.4287	0.4391	0.4284	0.4026	0.4460	0.4647	0.4752	0.4782		0.44	5.7	TM	1.000		
107	TM	Naphthalene	1.578	1.498	1.401	1.371	1.427	1.556	1.665	1.773	1.838		1.6	10	TM			
108	TML	1,2,3-Trichlorobenzene	0.7317	0.7154	0.6862	0.6621	0.6696	0.7144	0.7279	0.7510	0.7632		0.71	4.9	TM	1.000		
109																		
110																		
111																		
112																		
113																		
114																		
115																		
116																		
117																		
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138																		
139																		
140																		

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z17.D Vial: 2
Acq On : 06 Dec 21 15:48 Operator: MH
Sample : 0.3ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	367811	25.000	ppb		0.00
68) Chlorobenzene-D5 (IS)	9.58	117	347235	25.000	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	119472	25.000	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	5.23	111	12538	4.138	ppb		0.00
Spiked Amount 25.000			Recovery =	16.552%			
48) 1,2-DCA-D4(S)	5.65	65	10399	3.781	ppb		0.00
Spiked Amount 25.000			Recovery =	15.124%			
69) Toluene-D8(S)	7.98	98	55440	4.688	ppb		0.00
Spiked Amount 25.000			Recovery =	18.752%			
77) 4-Bromofluorobenzene(S)	10.88	95	22674	4.824	ppb		0.00
Spiked Amount 25.000			Recovery =	19.296%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.00	85	724	0.348	ppb		97
4) Freon 114	1.09	85	735	-0.181	ppb		87
5) Chloromethane	1.13	50	749	-0.608	ppb		95
6) Vinyl chloride	1.21	62	626	0.352	ppb		90
9) Bromomethane	1.45	94	690	-1.007	ppb	#	71
10) Chloroethane	1.54	66	189	182.340	ppb	#	42
11) Dichlorofluoromethane	1.71	67	1290	-1.714	ppb	#	84
12) Trichlorofluoromethane	1.74	101	980	0.309	ppb		86
15) 1,2 Dichlorotrifluoroethan	2.04	67	547	-1.992	ppb	#	98
16) Acrolein	2.13	55	908	9.425	ppb	#	68
17) Acetone	2.29	43	1284	4.743	ppb	#	73
18) Freon-113	2.22	101	354	0.368	ppb	#	86
19) 1,1-DCE	2.20	61	795	0.326	ppb		89
21) Acetonitrile	2.56	40	966	11.087	ppb	#	8
22) t-Butanol	2.94	59	383	10.844	ppb	#	57
23) Methyl Acetate	2.64	43	258	0.317	ppb	#	40
24) Iodomethane	2.33	142	494	-0.408	ppb	#	82
26) Methylene chloride	2.72	49	707	-0.764	ppb		93
27) Carbon disulfide	2.39	76	1430	-0.695	ppb	#	93
28) Methyl t-butyl ether (MtBE	3.08	73	1174	0.318	ppb	#	47
29) Trans-1,2-DCE	3.04	61	851	0.349	ppb		96
31) Diisopropyl Ether	3.79	45	886	0.265	ppb		98
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	48	-1.219	ppb	#	21
33) 1,1-DCA	3.61	63	1024	0.323	ppb	#	83
34) Vinyl Acetate	3.78	43	836	0.315	ppb	#	74
35) Ethyl tert Butyl Ether	4.37	59	950	0.259	ppb		95
36) MEK (2-Butanone)	4.62	72	268	8.182	ppb	#	49

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

Data File : M:\ZEUS\DATA\211206\1206Z17.D Vial: 2
Acq On : 06 Dec 21 15:48 Operator: MH
Sample : 0.3ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Cis-1,2-DCE	4.52	61	945	0.340	ppb		85
38)	2,2-Dichloropropane	4.50	77	876	0.305	ppb	#	52
40)	3-Methylpentane	3.03	57	466	0.186	ppb	#	76
41)	Chloroform	5.01	83	1106	0.315	ppb		91
42)	Bromochloromethane	4.86	49	299	0.268	ppb	#	83
44)	1,1,1-TCA	5.20	97	867	0.277	ppb	#	75
45)	Cyclohexane	5.25	56	987	0.346	ppb	#	76
46)	1,1-Dichloropropene	5.43	75	789	0.304	ppb	#	51
47)	2,2,4-Trimethylpentane	5.85	57	1920	0.325	ppb		93
49)	Carbon Tetrachloride	5.42	117	702	0.262	ppb		88
50)	Tert Amyl Methyl Ether	5.92	73	1222	0.296	ppb		98
52)	1,2-DCA	5.75	62	648	0.321	ppb	#	64
53)	Benzene	5.70	78	2851	0.327	ppb		95
54)	TCE	6.54	130	774	0.288	ppb	#	85
55)	2-Pentanone	6.84	43	5210	8.158	ppb		99
56)	1,2-Dichloropropane	6.81	63	518	0.271	ppb	#	81
57)	Bromodichloromethane	7.17	83	641	0.277	ppb		100
58)	Methyl Cyclohexane	6.74	83	1130	0.303	ppb		99
60)	MIBK (methyl isobutyl ket	7.91	43	2850	6.840	ppb	#	93
61)	1-Bromo-2-chloroethane	7.50	144	20	0.258	ppb	#	13
62)	2-Chloroethyl vinyl ether	7.57	43	2048	7.730	ppb		89
63)	Cis-1,3-Dichloropropene	7.70	75	868	0.288	ppb	#	89
64)	Toluene	8.05	91	3778	0.354	ppb		98
65)	Trans-1,3-Dichloropropene	8.35	75	731	0.292	ppb	#	85
66)	1,1,2-TCA	8.55	97	540	0.315	ppb	#	82
67)	2-Hexanone	8.86	58	1345	6.710	ppb	#	91
70)	1,2-EDB	9.07	107	388	0.648	ppb	#	70
71)	Tetrachloroethene	8.66	166	1055	0.112	ppb	#	79
73)	1,1,1,2-Tetrachloroethane	9.72	131	492	0.861	ppb		92
74)	m&p-Xylene	9.88	91	6162	0.632	ppb		94
75)	o-Xylene	10.31	91	3312	0.335	ppb		91
76)	Styrene	10.33	104	2023	0.639	ppb		99
78)	1,3-Dichloropropane	8.72	76	859	0.284	ppb	#	83
79)	Dibromochloromethane	8.95	129	369	1.036	ppb		86
80)	Chlorobenzene	9.62	112	2447	0.317	ppb		94
81)	Ethylbenzene	9.88	91	6162	0.316	ppb		94
82)	Bromoform	10.52	173	128	1.500	ppb		88
84)	Isopropylbenzene	10.73	105	3896	0.298	ppb		94
85)	1,1,2,2-Tetrachloroethane	11.07	83	439	0.887	ppb	#	73
86)	1,2,3-Trichloropropane	11.10	110	23	0.516	ppb	#	47
87)	t-1,4-Dichloro-2-Butene	11.14	53	42	0.789	ppb	#	9
88)	Bromobenzene	11.03	77	1483	0.330	ppb	#	75

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z17.D Vial: 2
Acq On : 06 Dec 21 15:48 Operator: MH
Sample : 0.3ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
89)	n-Propylbenzene	11.18	91	4769	0.307	ppb		96
90)	4-Ethyltoluene	11.30	105	4173	0.316	ppb		99
91)	2-Chlorotoluene	11.37	91	3189	0.181	ppb		98
92)	1,3,5-Trimethylbenzene	11.37	105	3059	0.287	ppb		94
93)	4-Chlorotoluene	11.37	91	3189	0.312	ppb		98
94)	Tert-Butylbenzene	11.73	119	3043	0.299	ppb		93
95)	1,2,4-Trimethylbenzene	11.77	105	2860	0.282	ppb		97
96)	Sec-Butylbenzene	11.96	105	4247	0.294	ppb		97
97)	p-Isopropyltoluene	11.73	119	3043	0.299	ppb	#	88
98)	Benzyl Chloride	12.33	91	1155	1.286	ppb	#	64
99)	1,3-DCB	12.07	146	2016	0.313	ppb		92
100)	1,4-DCB	12.17	146	2257	0.342	ppb	#	90
101)	n-Butylbenzene	12.57	91	2902	0.280	ppb		97
102)	1,2-DCB	12.57	146	1790	0.309	ppb	#	79
103)	Hexachloroethane	12.85	201	197	1.656	ppb	#	57
105)	1,2,4-Trichlorobenzene	13.64	180	1351	0.298	ppb		82
106)	Hexachlorobutadiene	14.52	225	608	0.606	ppb	#	88
107)	Naphthalene	14.60	128	2263	0.302	ppb	#	69
108)	1,2,3-Trichlorobenzene	14.86	180	1049	0.668	ppb	#	79

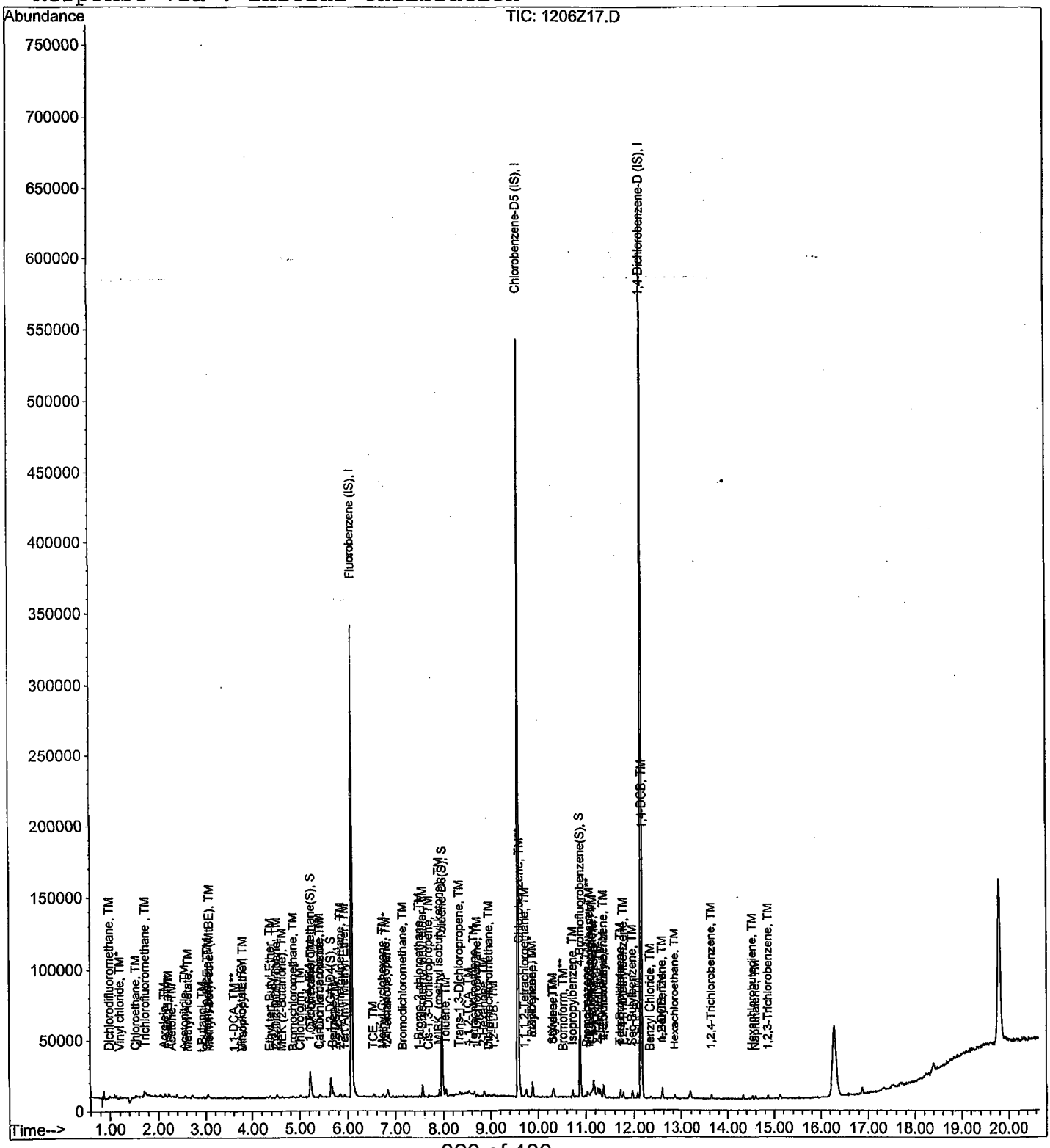
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z17.D Vial: 2
Acq On : 06 Dec 21 15:48 Operator: MH
Sample : 0.3ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z18.D Vial: 3
Acq On : 06 Dec 21 16:12 Operator: MH
Sample : 0.5ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RES

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	366661	25.000	ppb		0.00
68) Chlorobenzene-D5 (IS)	9.58	117	344388	25.000	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	116856	25.000	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	5.23	111	12671	4.187	ppb		0.00
Spiked Amount 25.000			Recovery =	16.748%			
48) 1,2-DCA-D4(S)	5.66	65	10832	3.951	ppb		0.00
Spiked Amount 25.000			Recovery =	15.804%			
69) Toluene-D8(S)	7.98	98	56522	4.774	ppb		0.00
Spiked Amount 25.000			Recovery =	19.096%			
77) 4-Bromofluorobenzene(S)	10.89	95	22676	4.849	ppb		0.00
Spiked Amount 25.000			Recovery =	19.396%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.00	85	1108	0.534	ppb		96
5) Chloromethane	1.13	50	1029	-0.388	ppb		94
6) Vinyl chloride	1.21	62	976	0.550	ppb	#	68
9) Bromomethane	1.45	94	956	-0.333	ppb		80
10) Chloroethane	1.54	66	254	182.049	ppb	#	64
11) Dichlorofluoromethane	1.71	67	2390	-1.301	ppb	#	86
12) Trichlorofluoromethane	1.74	101	1722	0.545	ppb		91
15) 1,2 Dichlorotrifluoroethan	2.03	67	1260	-1.724	ppb	#	82
16) Acrolein	2.13	55	2435	25.354	ppb		92
17) Acetone	2.28	43	3086	11.435	ppb		87
18) Freon-113	2.22	101	547	0.571	ppb		87
19) 1,1-DCE	2.20	61	1334	0.549	ppb	#	90
21) Acetonitrile	2.58	40	1500	23.662	ppb	#	52
22) t-Butanol	2.93	59	849	24.114	ppb		95
23) Methyl Acetate	2.64	43	400	0.530	ppb	#	40
24) Iodomethane	2.33	142	807	-0.140	ppb	#	75
25) Acrylonitrile	3.04	52	66	-0.530	ppb	#	48
26) Methylene chloride	2.72	49	1152	-0.465	ppb		91
27) Carbon disulfide	2.39	76	2122	-0.410	ppb		96
28) Methyl t-butyl ether (MtBE	3.08	73	1603	0.436	ppb	#	82
29) Trans-1,2-DCE	3.05	61	1356	0.558	ppb	#	79
30) Hexane	4.31	56	1519	0.298	ppb	#	73
31) Diisopropyl Ether	3.80	45	1582	0.475	ppb		91
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	61	-1.135	ppb	#	21
33) 1,1-DCA	3.62	63	1731	0.548	ppb	#	83
34) Vinyl Acetate	3.78	43	1420	0.537	ppb	#	74
35) Ethyl tert Butyl Ether	4.37	59	1718	0.469	ppb		95

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z18.D Vial: 3
Acq On : 06 Dec 21 16:12 Operator: MH
Sample : 0.5ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36) MEK (2-Butanone)	4.61	72	1022	12.891	ppb		95
37) Cis-1,2-DCE	4.52	61	1487	0.536	ppb	#	80
38) 2,2-Dichloropropane	4.50	77	1554	0.544	ppb	#	36
39) 2-Methylpentane	2.74	42	647	0.344	ppb	#	71
40) 3-Methylpentane	3.04	57	1343	0.436	ppb	#	86
41) Chloroform	5.01	83	1920	0.548	ppb		93
42) Bromochloromethane	4.86	49	595	0.535	ppb	#	81
44) 1,1,1-TCA	5.21	97	1591	0.511	ppb		98
45) Cyclohexane	5.25	56	1691	0.588	ppb	#	83
46) 1,1-Dichloropropene	5.43	75	1297	0.502	ppb		99
47) 2,2,4-Trimethylpentane	5.83	57	3211	0.545	ppb		95
49) Carbon Tetrachloride	5.42	117	1330	0.497	ppb		82
50) Tert Amyl Methyl Ether	5.93	73	2024	0.493	ppb	#	89
51) Methylcyclopentane	4.31	56	1519	0.298	ppb	#	84
52) 1,2-DCA	5.76	62	1074	0.533	ppb	#	64
53) Benzene	5.70	78	4637	0.533	ppb		100
54) TCE	6.54	130	1377	0.514	ppb	#	82
55) 2-Pentanone	6.84	43	13234	20.787	ppb		93
56) 1,2-Dichloropropane	6.82	63	917	0.482	ppb	#	81
57) Bromodichloromethane	7.16	83	1119	0.485	ppb		92
58) Methyl Cyclohexane	6.75	83	1867	0.503	ppb		86
59) Dibromomethane	6.95	174	694	0.195	ppb		95
60) MIBK (methyl isobutyl ket	7.92	43	7912	11.637	ppb		96
61) 1-Bromo-2-chloroethane	7.51	144	51	0.351	ppb	#	13
62) 2-Chloroethyl vinyl ether	7.57	43	4556	12.044	ppb		90
63) Cis-1,3-Dichloropropene	7.70	75	1494	0.497	ppb		94
64) Toluene	8.05	91	5734	0.540	ppb		96
65) Trans-1,3-Dichloropropene	8.34	75	1155	0.463	ppb		96
66) 1,1,2-TCA	8.54	97	882	0.516	ppb	#	70
67) 2-Hexanone	8.86	58	3517	11.360	ppb		93
70) 1,2-EDB	9.07	107	723	0.829	ppb	#	87
71) Tetrachloroethene	8.66	166	1634	0.302	ppb		97
72) 1-Chlorohexane	9.62	91	1892	0.240	ppb	#	85
73) 1,1,1,2-Tetrachloroethane	9.72	131	861	1.012	ppb	#	80
74) m&p-Xylene	9.89	91	10009	1.035	ppb		97
75) o-Xylene	10.31	91	5123	0.522	ppb		86
76) Styrene	10.33	104	3153	0.790	ppb		98
78) 1,3-Dichloropropane	8.71	76	1382	0.461	ppb		90
79) Dibromochloromethane	8.96	129	655	1.170	ppb	#	81
80) Chlorobenzene	9.62	112	4150	0.541	ppb		99
81) Ethylbenzene	9.89	91	10009	0.517	ppb		97
82) Bromoform	10.52	173	365	1.671	ppb		97

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z18.D Vial: 3
Acq On : 06 Dec 21 16:12 Operator: MH
Sample : 0.5ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
84)	Isopropylbenzene	10.73	105	6375	0.498	ppb		95
85)	1,1,2,2-Tetrachloroethane	11.07	83	841	1.078	ppb	#	92
86)	1,2,3-Trichloropropane	11.10	110	248	0.826	ppb		96
87)	t-1,4-Dichloro-2-Butene	11.13	53	92	0.886	ppb		92
88)	Bromobenzene	11.03	77	2293	0.527	ppb		89
89)	n-Propylbenzene	11.18	91	7830	0.515	ppb		99
90)	4-Ethyltoluene	11.30	105	6502	0.503	ppb		93
91)	2-Chlorotoluene	11.37	91	5274	0.401	ppb		92
92)	1,3,5-Trimethylbenzene	11.37	105	5180	0.496	ppb		94
93)	4-Chlorotoluene	11.37	91	5274	0.527	ppb		92
94)	Tert-Butylbenzene	11.72	119	5139	0.516	ppb		98
95)	1,2,4-Trimethylbenzene	11.78	105	4597	0.464	ppb		91
96)	Sec-Butylbenzene	11.96	105	7155	0.506	ppb		92
97)	p-Isopropyltoluene	11.72	119	5139	0.516	ppb		96
98)	Benzyl Chloride	12.32	91	1869	1.435	ppb	#	86
99)	1,3-DCB	12.07	146	3211	0.510	ppb		94
100)	1,4-DCB	12.17	146	3460	0.535	ppb	#	88
101)	n-Butylbenzene	12.57	91	4671	0.461	ppb		98
102)	1,2-DCB	12.57	146	2892	0.510	ppb		92
103)	Hexachloroethane	12.85	201	574	1.838	ppb	#	93
104)	1,2-Dibromo-3-chloropropan	13.42	157	27	1.548	ppb	#	8
105)	1,2,4-Trichlorobenzene	13.65	180	2218	0.500	ppb		92
106)	Hexachlorobutadiene	14.53	225	1002	0.788	ppb		93
107)	Naphthalene	14.60	128	3502	0.478	ppb		95
108)	1,2,3-Trichlorobenzene	14.86	180	1672	0.849	ppb		88

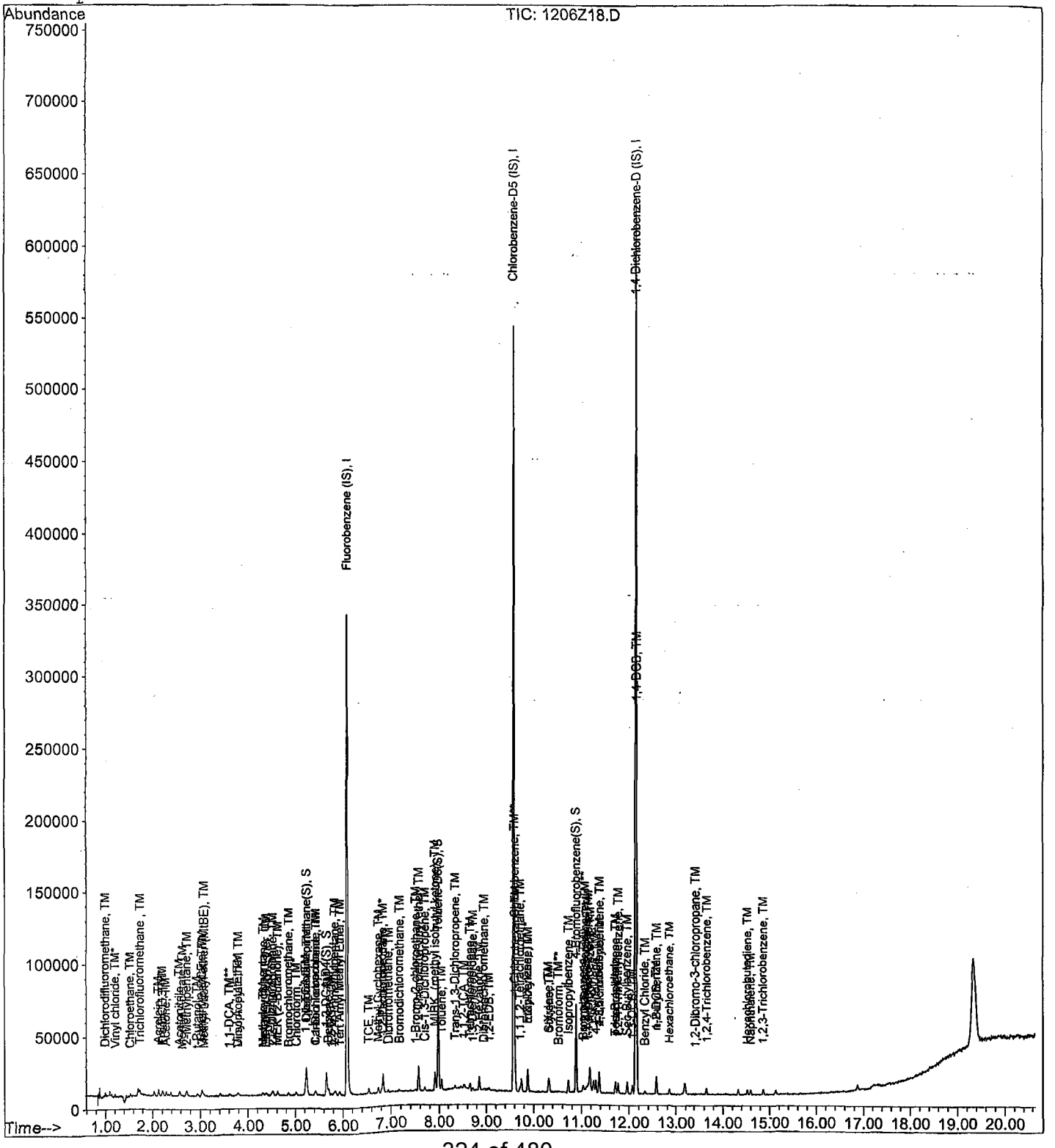
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z18.D Vial: 3
Acq On : 06 Dec 21 16:12 Operator: MH
Sample : 0.5ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z19.D Vial: 4
Acq On : 06 Dec 21 16:36 Operator: MH
Sample : 1ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	371997	25.000	ppb		0.00
68) Chlorobenzene-D5 (IS)	9.58	117	345148	25.000	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	117056	25.000	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	5.23	111	33149	9.823	ppb		0.00
Spiked Amount 25.000			Recovery	=	39.292%		
48) 1,2-DCA-D4(S)	5.66	65	27522	9.894	ppb		0.00
Spiked Amount 25.000			Recovery	=	39.576%		
69) Toluene-D8(S)	7.98	98	145028	9.746	ppb		0.00
Spiked Amount 25.000			Recovery	=	38.984%		
77) 4-Bromofluorobenzene(S)	10.89	95	58408	9.709	ppb		0.00
Spiked Amount 25.000			Recovery	=	38.836%		
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.00	85	2242	1.065	ppb		95
4) Freon 114	1.09	85	1989	0.712	ppb		95
5) Chloromethane	1.13	50	2057	0.392	ppb		98
6) Vinyl chloride	1.20	62	1973	1.096	ppb		92
9) Bromomethane	1.45	94	1367	0.650	ppb		89
10) Chloroethane	1.53	66	393	181.454	ppb	#	43
11) Dichlorofluoromethane	1.71	67	4149	-0.664	ppb		90
12) Trichlorofluoromethane	1.74	101	3377	1.054	ppb		90
14) Diethyl ether	2.65	74	174	1.349	ppb	#	48
15) 1,2 Dichlorotrifluoroethan	2.03	67	2319	-1.340	ppb		95
16) Acrolein	2.13	55	5018	51.499	ppb		94
17) Acetone	2.29	43	5704	20.832	ppb		95
18) Freon-113	2.22	101	1084	1.115	ppb		85
19) 1,1-DCE	2.20	61	2735	1.110	ppb		92
21) Acetonitrile	2.57	40	2505	49.326	ppb	#	57
22) t-Butanol	2.95	59	1744	48.824	ppb	#	87
23) Methyl Acetate	2.64	43	753	1.042	ppb		93
24) Iodomethane	2.34	142	1383	0.333	ppb	#	87
25) Acrylonitrile	3.04	52	297	0.146	ppb	#	70
26) Methylene chloride	2.72	49	2263	0.255	ppb		98
27) Carbon disulfide	2.39	76	4024	0.345	ppb		100
28) Methyl t-butyl ether (MtBE	3.08	73	3486	0.934	ppb		97
29) Trans-1,2-DCE	3.04	61	2713	1.100	ppb		91
30) Hexane	4.30	56	3199	0.744	ppb	#	94
31) Diisopropyl Ether	3.79	45	3394	1.004	ppb		95
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	188	-0.338	ppb	#	84
33) 1,1-DCA	3.61	63	3457	1.079	ppb		93

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z19.D Vial: 4
Acq On : 06 Dec 21 16:36 Operator: MH
Sample : 1ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
34) Vinyl Acetate	3.77	43	2634	0.982 ppb	#	74
35) Ethyl tert Butyl Ether	4.37	59	3442	0.927 ppb		88
36) MEK (2-Butanone)	4.62	72	2197	20.026 ppb		89
37) Cis-1,2-DCE	4.53	61	3013	1.070 ppb	#	81
38) 2,2-Dichloropropane	4.49	77	3086	1.064 ppb		100
39) 2-Methylpentane	2.74	42	1211	0.759 ppb	#	76
40) 3-Methylpentane	3.03	57	2929	0.874 ppb		91
41) Chloroform	5.01	83	3676	1.035 ppb		90
42) Bromochloromethane	4.85	49	1222	1.084 ppb		92
44) 1,1,1-TCA	5.20	97	3295	1.043 ppb		95
45) Cyclohexane	5.25	56	3124	1.065 ppb		87
46) 1,1-Dichloropropene	5.44	75	2725	1.039 ppb		98
47) 2,2,4-Trimethylpentane	5.84	57	5961	0.998 ppb		99
49) Carbon Tetrachloride	5.42	117	2781	1.025 ppb		97
50) Tert Amyl Methyl Ether	5.93	73	3904	0.936 ppb		99
51) Methylcyclopentane	4.30	56	3199	0.744 ppb		93
52) 1,2-DCA	5.76	62	2112	1.034 ppb	#	87
53) Benzene	5.70	78	9406	1.066 ppb		99
54) TCE	6.54	130	2729	1.005 ppb		95
55) 2-Pentanone	6.84	43	28448	44.043 ppb		96
56) 1,2-Dichloropropane	6.82	63	2007	1.039 ppb	#	81
57) Bromodichloromethane	7.17	83	2291	0.980 ppb		98
58) Methyl Cyclohexane	6.74	83	3820	1.014 ppb		98
59) Dibromomethane	6.95	174	1564	0.812 ppb		97
60) MIBK (methyl isobutyl ket	7.91	43	16936	19.943 ppb		97
61) 1-Bromo-2-chloroethane	7.50	144	191	0.760 ppb	#	78
62) 2-Chloroethyl vinyl ether	7.57	43	8930	19.329 ppb		95
63) Cis-1,3-Dichloropropene	7.69	75	2853	0.935 ppb		95
64) Toluene	8.05	91	11423	1.059 ppb		98
65) Trans-1,3-Dichloropropene	8.35	75	2374	0.937 ppb		95
66) 1,1,2-TCA	8.54	97	1667	0.961 ppb		93
67) 2-Hexanone	8.85	58	7583	19.815 ppb		91
70) 1,2-EDB	9.07	107	1539	1.263 ppb	#	81
71) Tetrachloroethene	8.66	166	3357	0.856 ppb		87
72) 1-Chlorohexane	9.63	91	3686	0.738 ppb		94
73) 1,1,1,2-Tetrachloroethane	9.72	131	1940	1.446 ppb		95
74) m&p-Xylene	9.88	91	19201	1.981 ppb		96
75) o-Xylene	10.32	91	9656	0.981 ppb		95
76) Styrene	10.33	104	6174	1.185 ppb		91
78) 1,3-Dichloropropane	8.72	76	2797	0.931 ppb		100
79) Dibromochloromethane	8.96	129	1504	1.564 ppb		90
80) Chlorobenzene	9.62	112	8008	1.042 ppb		96

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z19.D Vial: 4
Acq On : 06 Dec 21 16:36 Operator: MH
Sample : 1ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
81)	Ethylbenzene	9.88	91	19201	0.990	ppb		96
82)	Bromoform	10.53	173	771	1.961	ppb		98
84)	Isopropylbenzene	10.73	105	12586	0.982	ppb		95
85)	1,1,2,2-Tetrachloroethane	11.07	83	1654	1.454	ppb		88
86)	1,2,3-Trichloropropane	11.11	110	642	1.365	ppb		94
87)	t-1,4-Dichloro-2-Butene	11.13	53	259	1.204	ppb		89
88)	Bromobenzene	11.03	77	4339	1.004	ppb		96
89)	n-Propylbenzene	11.18	91	15507	1.019	ppb		98
90)	4-Ethyltoluene	11.30	105	12581	0.971	ppb		97
91)	2-Chlorotoluene	11.37	91	10071	0.888	ppb		95
92)	1,3,5-Trimethylbenzene	11.37	105	10178	0.973	ppb		98
93)	4-Chlorotoluene	11.37	91	10071	1.005	ppb		95
94)	Tert-Butylbenzene	11.73	119	9990	1.000	ppb		91
95)	1,2,4-Trimethylbenzene	11.78	105	9321	0.938	ppb		98
96)	Sec-Butylbenzene	11.97	105	14013	0.989	ppb		99
97)	p-Isopropyltoluene	11.73	119	9990	1.000	ppb	#	85
98)	Benzyl Chloride	12.33	91	3738	1.808	ppb		94
99)	1,3-DCB	12.17	146	6715	1.065	ppb		98
100)	1,4-DCB	12.17	146	6715	1.037	ppb		98
101)	n-Butylbenzene	12.57	91	9490	0.935	ppb		90
102)	1,2-DCB	12.58	146	5973	1.051	ppb		97
103)	Hexachloroethane	12.84	201	1320	2.193	ppb	#	82
104)	1,2-Dibromo-3-chloropropan	13.43	157	259	2.039	ppb	#	43
105)	1,2,4-Trichlorobenzene	13.66	180	4314	0.971	ppb		92
106)	Hexachlorobutadiene	14.52	225	2056	1.257	ppb		93
107)	Naphthalene	14.60	128	6562	0.894	ppb	#	93
108)	1,2,3-Trichlorobenzene	14.86	180	3213	1.279	ppb		94

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

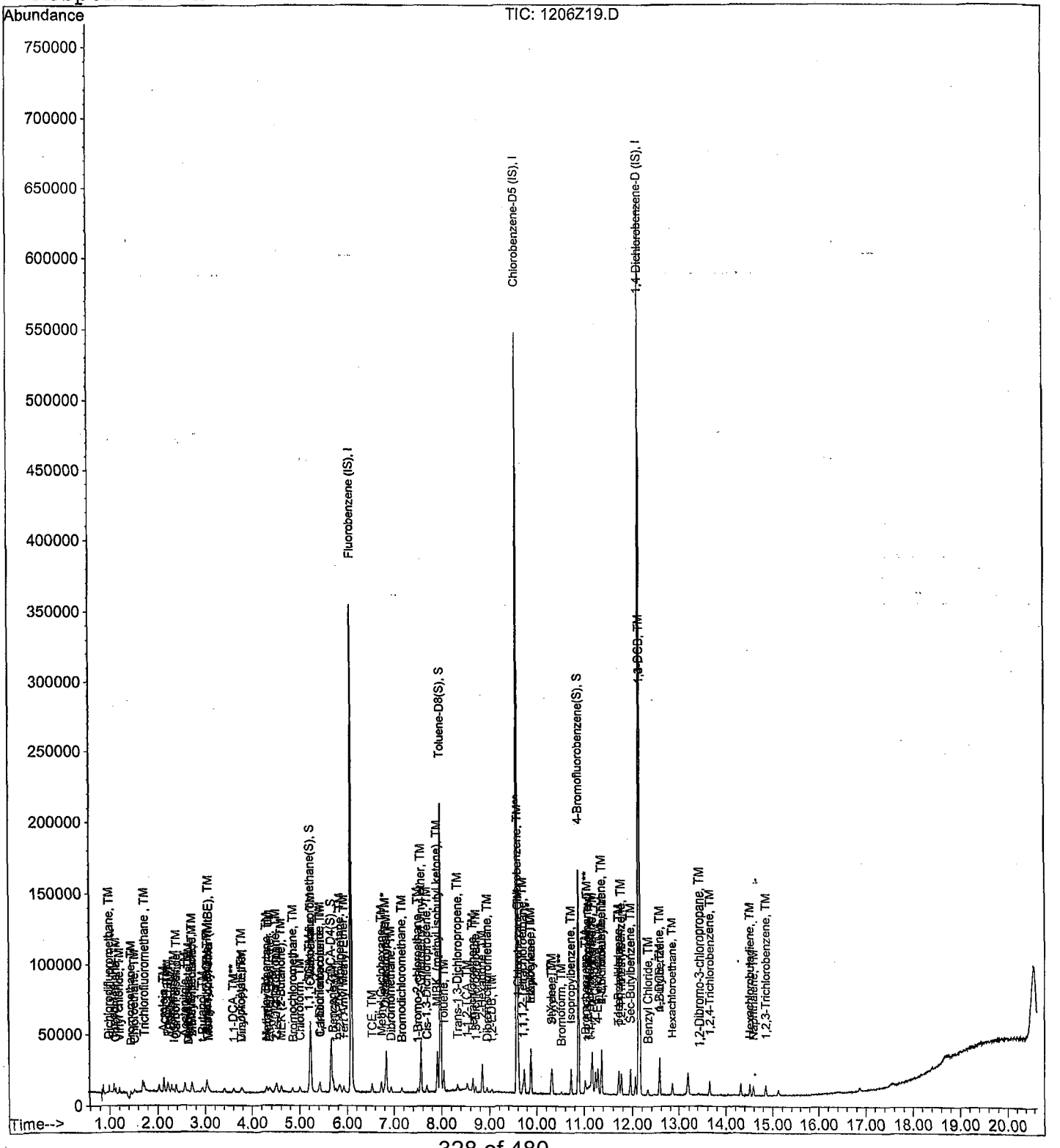
Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z19.D
Acq On : 06 Dec 21 16:36
Sample : 1ug/L VOC STD 12/6/21
Misc :

Vial: 4
Operator: MH
Inst : Zeus
Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z20.D Vial: 5
Acq On : 06 Dec 21 17:00 Operator: MH
Sample : 2ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	388302	25.000	ppb		0.00
68) Chlorobenzene-D5 (IS)	9.58	117	355796	25.000	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	125880	25.000	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	5.23	111	33446	9.515	ppb		0.00
Spiked Amount 25.000			Recovery =	38.060%			
48) 1,2-DCA-D4(S)	5.65	65	28333	9.758	ppb		0.00
Spiked Amount 25.000			Recovery =	39.032%			
69) Toluene-D8(S)	7.98	98	149510	9.746	ppb		0.00
Spiked Amount 25.000			Recovery =	38.984%			
77) 4-Bromofluorobenzene(S)	10.88	95	60845	9.793	ppb		0.00
Spiked Amount 25.000			Recovery =	39.172%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.00	85	5278	2.403	ppb		99
4) Freon 114	1.09	85	4653	2.481	ppb		85
5) Chloromethane	1.13	50	4435	2.080	ppb		94
6) Vinyl chloride	1.21	62	4103	2.183	ppb		92
9) Bromomethane	1.45	94	1985	1.973	ppb		91
10) Chloroethane	1.54	66	795	1.488	ppb	#	56
11) Dichlorofluoromethane	1.71	67	8636	0.860	ppb		95
12) Trichlorofluoromethane	1.74	101	7451	2.228	ppb		99
14) Diethyl ether	2.63	74	400	2.227	ppb	#	48
15) 1,2 Dichlorotrifluoroethan	2.03	67	5030	-0.416	ppb	#	82
16) Acrolein	2.13	55	7907	77.741	ppb		88
17) Acetone	2.29	43	8546	29.901	ppb		99
18) Freon-113	2.22	101	2043	2.013	ppb	#	82
19) 1,1-DCE	2.20	61	5840	2.270	ppb		96
21) Acetonitrile	2.57	40	3574	78.912	ppb		80
22) t-Butanol	2.94	59	2683	71.958	ppb	#	90
23) Methyl Acetate	2.64	43	1496	2.044	ppb		90
24) Iodomethane	2.34	142	2667	1.317	ppb	#	93
25) Acrylonitrile	3.05	52	804	1.537	ppb	#	64
26) Methylene chloride	2.72	49	4511	1.609	ppb		88
27) Carbon disulfide	2.39	76	8627	2.056	ppb		99
28) Methyl t-butyl ether (MtBE	3.08	73	7410	1.901	ppb		92
29) Trans-1,2-DCE	3.04	61	5657	2.198	ppb		89
30) Hexane	4.30	56	7055	1.702	ppb	#	94
31) Diisopropyl Ether	3.79	45	6780	1.922	ppb		87
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	469	1.312	ppb		94
33) 1,1-DCA	3.62	63	7196	2.152	ppb	#	90

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

Data File : M:\ZEUS\DATA\211206\1206Z20.D Vial: 5
Acq On : 06 Dec 21 17:00 Operator: MH
Sample : 2ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	Vinyl Acetate	3.77	43	5254	1.876	ppb		100
35)	Ethyl tert Butyl Ether	4.37	59	7442	1.920	ppb		95
36)	MEK (2-Butanone)	4.62	72	3440	26.782	ppb		93
37)	Cis-1,2-DCE	4.51	61	6183	2.104	ppb		89
38)	2,2-Dichloropropane	4.50	77	6409	2.117	ppb	#	89
39)	2-Methylpentane	2.74	42	2670	1.766	ppb		90
40)	3-Methylpentane	3.04	57	7012	1.935	ppb		85
41)	Chloroform	5.01	83	7774	2.097	ppb		95
42)	Bromochloromethane	4.86	49	2476	2.104	ppb		87
44)	1,1,1-TCA	5.20	97	6952	2.108	ppb		95
45)	Cyclohexane	5.25	56	6954	2.261	ppb		91
46)	1,1-Dichloropropene	5.44	75	5648	2.064	ppb		92
47)	2,2,4-Trimethylpentane	5.84	57	13712	2.199	ppb		99
49)	Carbon Tetrachloride	5.42	117	6000	2.118	ppb		97
50)	Tert Amyl Methyl Ether	5.93	73	8235	1.892	ppb		91
51)	Methylcyclopentane	4.30	56	7055	1.702	ppb		96
52)	1,2-DCA	5.76	62	4468	2.096	ppb		95
53)	Benzene	5.70	78	18541	2.013	ppb		97
54)	TCE	6.55	130	5858	2.067	ppb		97
55)	2-Pentanone	6.84	43	45659	67.721	ppb		98
56)	1,2-Dichloropropane	6.82	63	4191	2.079	ppb	#	96
57)	Bromodichloromethane	7.16	83	4629	1.896	ppb		95
58)	Methyl Cyclohexane	6.74	83	8679	2.207	ppb		91
59)	Dibromomethane	6.95	174	3123	1.836	ppb		98
60)	MIBK (methyl isobutyl ket	7.91	43	26715	28.014	ppb		98
61)	1-Bromo-2-chloroethane	7.51	144	608	1.911	ppb	#	82
62)	2-Chloroethyl vinyl ether	7.57	43	14460	27.655	ppb		94
63)	Cis-1,3-Dichloropropene	7.70	75	5891	1.849	ppb		99
64)	Toluene	8.06	91	23365	2.076	ppb		99
65)	Trans-1,3-Dichloropropene	8.34	75	4789	1.811	ppb		98
66)	1,1,2-TCA	8.54	97	3353	1.852	ppb		97
67)	2-Hexanone	8.85	58	11935	27.925	ppb		93
70)	1,2-EDB	9.07	107	3079	2.035	ppb		93
71)	Tetrachloroethene	8.65	166	6691	1.866	ppb		95
72)	1-Chlorohexane	9.63	91	7744	1.803	ppb		96
73)	1,1,1,2-Tetrachloroethane	9.72	131	3791	2.147	ppb		90
74)	m&p-Xylene	9.88	91	40553	4.059	ppb		100
75)	o-Xylene	10.31	91	20177	1.989	ppb		96
76)	Styrene	10.33	104	13447	2.086	ppb		100
78)	1,3-Dichloropropane	8.72	76	5783	1.868	ppb		99
79)	Dibromochloromethane	8.96	129	3222	2.318	ppb		86
80)	Chlorobenzene	9.61	112	15849	2.001	ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z20.D Vial: 5
Acq On : 06 Dec 21 17:00 Operator: MH
Sample : 2ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
81)	Ethylbenzene	9.88	91	40553	2.028 ppb		100
82)	Bromoform	10.52	173	1760	2.631 ppb	#	82
84)	Isopropylbenzene	10.73	105	26755	1.941 ppb		99
85)	1,1,2,2-Tetrachloroethane	11.07	83	3420	2.163 ppb		98
86)	1,2,3-Trichloropropane	11.10	110	1263	2.095 ppb	#	76
87)	t-1,4-Dichloro-2-Butene	11.13	53	710	1.967 ppb	#	70
88)	Bromobenzene	11.03	77	8818	1.906 ppb		92
89)	n-Propylbenzene	11.18	91	31442	1.922 ppb		99
90)	4-Ethyltoluene	11.30	105	27117	1.946 ppb		96
91)	2-Chlorotoluene	11.37	91	20710	1.823 ppb		97
92)	1,3,5-Trimethylbenzene	11.37	105	21407	1.903 ppb		96
93)	4-Chlorotoluene	11.37	91	20710	1.922 ppb		97
94)	Tert-Butylbenzene	11.73	119	20770	1.934 ppb		93
95)	1,2,4-Trimethylbenzene	11.78	105	20599	1.929 ppb		93
96)	Sec-Butylbenzene	11.96	105	29021	1.904 ppb		100
97)	p-Isopropyltoluene	11.73	119	20770	1.934 ppb		98
98)	Benzyl Chloride	12.33	91	7527	2.461 ppb		96
99)	1,3-DCB	12.07	146	13165	1.942 ppb		100
100)	1,4-DCB	12.17	146	13579	1.951 ppb		97
101)	n-Butylbenzene	12.57	91	20323	1.861 ppb		94
102)	1,2-DCB	12.57	146	11807	1.931 ppb		96
103)	Hexachloroethane	12.84	201	2825	2.815 ppb		88
104)	1,2-Dibromo-3-chloropropan	13.43	157	651	2.773 ppb		90
105)	1,2,4-Trichlorobenzene	13.65	180	9181	1.923 ppb		98
106)	Hexachlorobutadiene	14.52	225	4314	2.128 ppb		94
107)	Naphthalene	14.60	128	13807	1.749 ppb		97
108)	1,2,3-Trichlorobenzene	14.86	180	6668	2.114 ppb		95

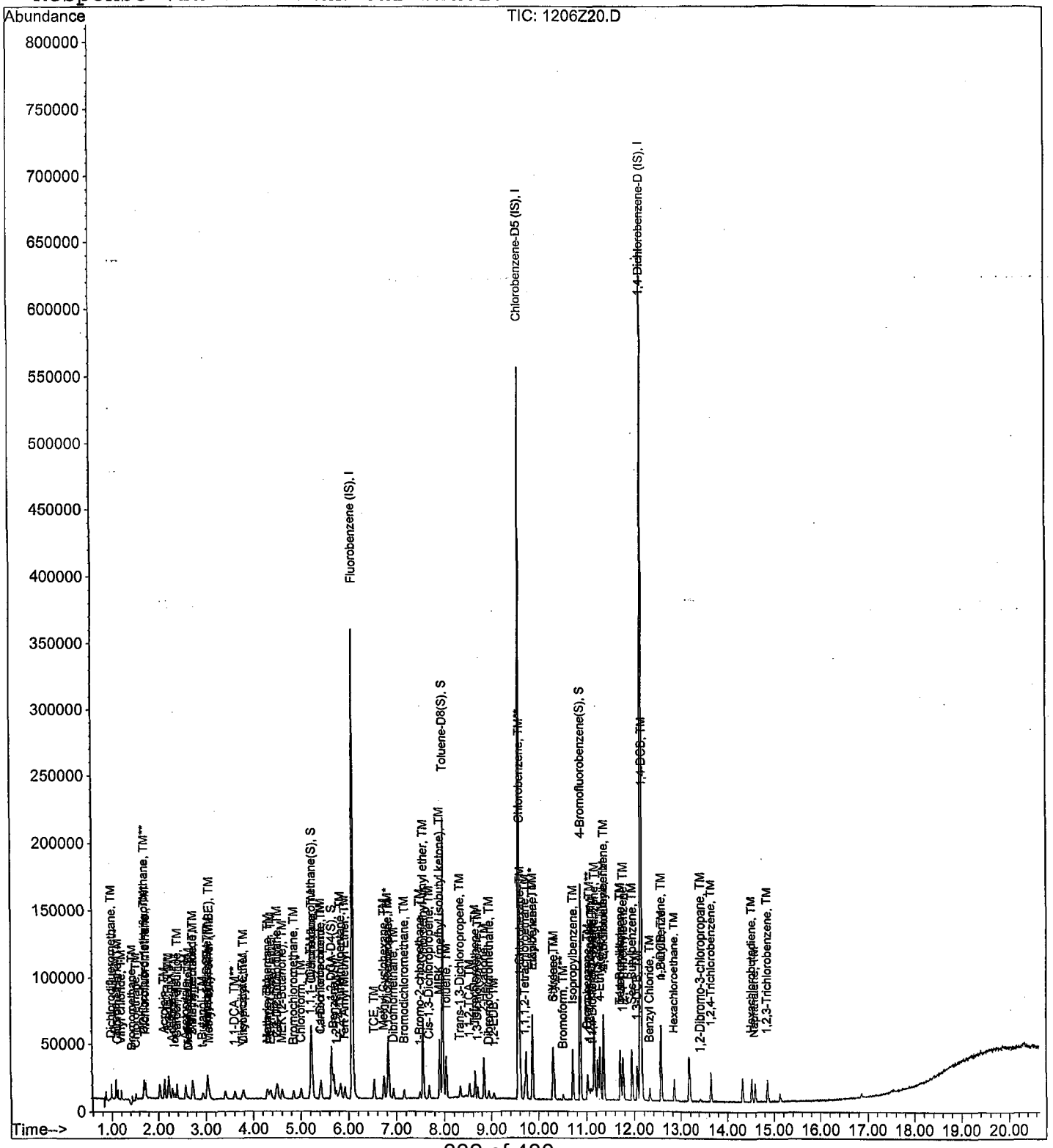
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z20.D Vial: 5
Acq On : 06 Dec 21 17:00 Operator: MH
Sample : 2ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:23 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z21.D Vial: 6
Acq On : 06 Dec 21 17:24 Operator: MH
Sample : 5ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	398068	25.000 ppb		0.00
68) Chlorobenzene-D5 (IS)	9.58	117	358845	25.000 ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	126680	25.000 ppb		0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	98469	26.174 ppb		0.00
Spiked Amount 25.000			Recovery	= 104.696%		
48) 1,2-DCA-D4(S)	5.66	65	82342	27.663 ppb		0.00
Spiked Amount 25.000			Recovery	= 110.652%		
69) Toluene-D8(S)	7.98	98	436806	25.220 ppb		0.00
Spiked Amount 25.000			Recovery	= 100.880%		
77) 4-Bromofluorobenzene(S)	10.88	95	177990	25.071 ppb		0.00
Spiked Amount 25.000			Recovery	= 100.284%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.00	85	9433	4.189 ppb		98
4) Freon 114	1.09	85	7753	4.478 ppb		90
5) Chloromethane	1.13	50	9197	5.427 ppb		97
6) Vinyl chloride	1.20	62	9281	4.817 ppb		95
9) Bromomethane	1.45	94	3771	5.989 ppb		86
10) Chloroethane	1.53	66	1500	4.411 ppb		90
11) Dichlorofluoromethane	1.71	67	19656	4.590 ppb		97
12) Trichlorofluoromethane	1.74	101	16910	4.933 ppb		100
14) Diethyl ether	2.64	74	1133	5.062 ppb		91
15) 1,2 Dichlorotrifluoroethan	2.03	67	11051	1.619 ppb		100
16) Acrolein	2.13	55	10755	103.148 ppb		99
17) Acetone	2.28	43	11585	39.540 ppb		97
18) Freon-113	2.22	101	4318	4.151 ppb		92
19) 1,1-DCE	2.20	61	12406	4.705 ppb		99
21) Acetonitrile	2.58	40	4178	98.428 ppb		96
22) t-Butanol	2.94	59	3826	100.095 ppb		95
23) Methyl Acetate	2.64	43	3798	5.162 ppb		97
24) Iodomethane	2.34	142	6486	4.261 ppb		97
25) Acrylonitrile	3.04	52	1985	4.726 ppb		95
26) Methylene chloride	2.72	49	10303	5.100 ppb		97
27) Carbon disulfide	2.38	76	15313	4.495 ppb		98
28) Methyl t-butyl ether (MtBE	3.08	73	19385	4.852 ppb		94
29) Trans-1,2-DCE	3.04	61	12772	4.840 ppb		97
30) Hexane	4.31	56	18367	4.500 ppb	#	98
31) Diisopropyl Ether	3.79	45	17829	4.930 ppb		99
32) 2,2-Dichloro-1,1,1-trifluo	1.70	83	1024	4.517 ppb		95
33) 1,1-DCA	3.61	63	17238	5.028 ppb		92

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z21.D Vial: 6
Acq On : 06 Dec 21 17:24 Operator: MH
Sample : 5ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34) Vinyl Acetate	3.78	43	13580	4.730	ppb	#	90
35) Ethyl tert Butyl Ether	4.37	59	19398	4.882	ppb		99
36) MEK (2-Butanone)	4.61	72	5169	36.221	ppb		96
37) Cis-1,2-DCE	4.52	61	14921	4.953	ppb		99
38) 2,2-Dichloropropane	4.49	77	15135	4.877	ppb		98
39) 2-Methylpentane	2.74	42	6824	4.622	ppb		95
40) 3-Methylpentane	3.03	57	17500	4.632	ppb		89
41) Chloroform	5.01	83	18954	4.987	ppb		98
42) Bromochloromethane	4.86	49	6329	5.245	ppb		87
44) 1,1,1-TCA	5.21	97	16537	4.891	ppb		99
45) Cyclohexane	5.25	56	13904	4.403	ppb		97
46) 1,1-Dichloropropene	5.44	75	12954	4.617	ppb		97
47) 2,2,4-Trimethylpentane	5.84	57	26207	4.099	ppb		98
49) Carbon Tetrachloride	5.41	117	14243	4.905	ppb		91
50) Tert Amyl Methyl Ether	5.92	73	21089	4.728	ppb	#	90
51) Methylcyclopentane	4.31	56	18367	4.500	ppb		91
52) 1,2-DCA	5.75	62	11093	5.075	ppb		99
53) Benzene	5.70	78	45660	4.836	ppb		97
54) TCE	6.54	130	13808	4.752	ppb		98
55) 2-Pentanone	6.84	43	68643	99.312	ppb		100
56) 1,2-Dichloropropane	6.82	63	10352	5.010	ppb		98
57) Bromodichloromethane	7.17	83	12407	4.958	ppb		96
58) Methyl Cyclohexane	6.74	83	16975	4.211	ppb		97
59) Dibromomethane	6.95	174	7758	4.891	ppb		97
60) MIBK (methyl isobutyl ket	7.91	43	38552	37.742	ppb		95
61) 1-Bromo-2-chloroethane	7.50	144	1708	4.891	ppb		89
62) 2-Chloroethyl vinyl ether	7.57	43	21168	37.681	ppb		95
63) Cis-1,3-Dichloropropene	7.70	75	15602	4.777	ppb		96
64) Toluene	8.05	91	55301	4.793	ppb		95
65) Trans-1,3-Dichloropropene	8.34	75	12884	4.752	ppb		97
66) 1,1,2-TCA	8.54	97	9028	4.865	ppb		100
67) 2-Hexanone	8.86	58	17324	37.940	ppb		99
70) 1,2-EDB	9.06	107	8250	4.672	ppb		98
71) Tetrachloroethene	8.66	166	15822	4.679	ppb		97
72) 1-Chlorohexane	9.62	91	18498	4.664	ppb		96
73) 1,1,1,2-Tetrachloroethane	9.72	131	10632	4.787	ppb		97
74) m&p-Xylene	9.88	91	98167	9.742	ppb		98
75) o-Xylene	10.31	91	49453	4.835	ppb		96
76) Styrene	10.33	104	34031	4.669	ppb		100
78) 1,3-Dichloropropane	8.72	76	15502	4.964	ppb		95
79) Dibromochloromethane	8.96	129	8662	4.738	ppb		97
80) Chlorobenzene	9.62	112	38452	4.813	ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z21.D Vial: 6
Acq On : 06 Dec 21 17:24 Operator: MH
Sample : 5ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
81)	Ethylbenzene	9.88	91	98167	4.868	ppb		98
82)	Bromoform	10.52	173	5033	4.873	ppb		97
84)	Isopropylbenzene	10.72	105	64460	4.646	ppb		99
85)	1,1,2,2-Tetrachloroethane	11.07	83	9399	4.717	ppb		98
86)	1,2,3-Trichloropropane	11.10	110	3490	4.906	ppb	#	90
87)	t-1,4-Dichloro-2-Butene	11.13	53	2359	4.857	ppb		89
88)	Bromobenzene	11.03	77	22315	4.808	ppb		91
89)	n-Propylbenzene	11.18	91	76998	4.676	ppb		100
90)	4-Ethyltoluene	11.30	105	66550	4.746	ppb		99
91)	2-Chlorotoluene	11.38	91	52550	4.805	ppb		97
92)	1,3,5-Trimethylbenzene	11.37	105	54552	4.819	ppb		99
93)	4-Chlorotoluene	11.38	91	52550	4.846	ppb		97
94)	Tert-Butylbenzene	11.72	119	50942	4.714	ppb		98
95)	1,2,4-Trimethylbenzene	11.78	105	50773	4.724	ppb		97
96)	Sec-Butylbenzene	11.96	105	71897	4.688	ppb		100
97)	p-Isopropyltoluene	11.72	119	50942	4.714	ppb		100
98)	Benzyl Chloride	12.33	91	20497	4.852	ppb		98
99)	1,3-DCB	12.07	146	32539	4.770	ppb		97
100)	1,4-DCB	12.17	146	33275	4.749	ppb		96
101)	n-Butylbenzene	12.57	91	50877	4.630	ppb		99
102)	1,2-DCB	12.57	146	29686	4.825	ppb		100
103)	Hexachloroethane	12.84	201	7464	4.849	ppb	#	83
104)	1,2-Dibromo-3-chloropropan	13.43	157	1803	5.021	ppb		92
105)	1,2,4-Trichlorobenzene	13.65	180	22562	4.695	ppb		98
106)	Hexachlorobutadiene	14.52	225	10199	4.540	ppb		95
107)	Naphthalene	14.60	128	36165	4.553	ppb		97
108)	1,2,3-Trichlorobenzene	14.86	180	16966	4.763	ppb		95

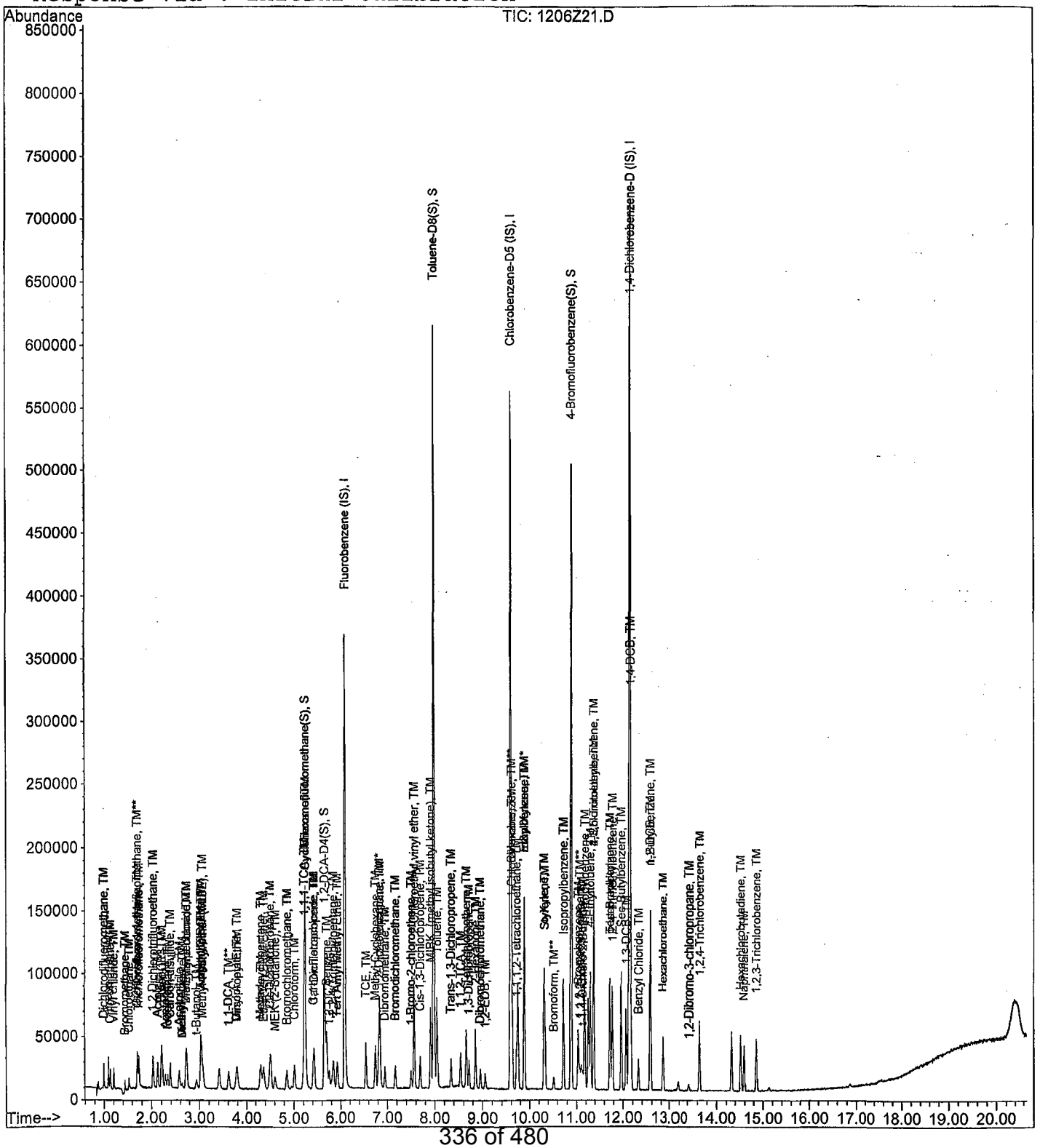
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z21.D Vial: 6
Acq On : 06 Dec 21 17:24 Operator: MH
Sample : 5ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z22.D Vial: 7
Acq On : 06 Dec 21 17:48 Operator: MH
Sample : 10ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	407844	25.000 ppb		0.00
68) Chlorobenzene-D5 (IS)	9.59	117	362313	25.000 ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	125640	25.000 ppb		0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	98626	25.601 ppb		0.00
Spiked Amount 25.000			Recovery = 102.404%			
48) 1,2-DCA-D4(S)	5.65	65	83490	27.377 ppb		0.00
Spiked Amount 25.000			Recovery = 109.508%			
69) Toluene-D8(S)	7.98	98	439095	25.117 ppb		0.00
Spiked Amount 25.000			Recovery = 100.468%			
77) 4-Bromofluorobenzene(S)	10.88	95	179650	25.064 ppb		0.00
Spiked Amount 25.000			Recovery = 100.256%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.00	85	20653	8.952 ppb		100
4) Freon 114	1.09	85	17496	10.721 ppb		100
5) Chloromethane	1.13	50	17528	11.120 ppb		100
6) Vinyl chloride	1.21	62	17806	9.021 ppb		100
9) Bromomethane	1.45	94	6008	10.831 ppb		100
10) Chloroethane	1.53	66	2571	8.906 ppb		100
11) Dichlorofluoromethane	1.71	67	39749	11.198 ppb		100
12) Trichlorofluoromethane	1.74	101	34157	9.726 ppb		100
14) Diethyl ether	2.64	74	2364	9.668 ppb		100
15) 1,2 Dichlorotrifluoroethan	2.03	67	26138	6.611 ppb		100
16) Acrolein	2.13	55	13628	127.569 ppb		100
17) Acetone	2.29	43	14965	49.851 ppb		100
18) Freon-113	2.22	101	10221	9.590 ppb		100
19) 1,1-DCE	2.20	61	25471	9.428 ppb		100
21) Acetonitrile	2.58	40	4530	109.466 ppb		100
22) t-Butanol	2.95	59	5093	130.049 ppb		100
23) Methyl Acetate	2.64	43	7546	10.074 ppb		100
24) Iodomethane	2.34	142	14376	10.181 ppb		100
25) Acrylonitrile	3.04	52	4101	10.268 ppb		100
26) Methylene chloride	2.72	49	20142	10.852 ppb		100
27) Carbon disulfide	2.39	76	31952	10.481 ppb		100
28) Methyl t-butyl ether (MtBE	3.07	73	41995	10.258 ppb		100
29) Trans-1,2-DCE	3.04	61	25379	9.387 ppb		100
30) Hexane	4.30	56	41353	10.028 ppb	#	99
31) Diisopropyl Ether	3.79	45	38163	10.300 ppb		99
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	2236	11.352 ppb		100
33) 1,1-DCA	3.61	63	34238	9.747 ppb		100

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z22.D Vial: 7
Acq On : 06 Dec 21 17:48 Operator: MH
Sample : 10ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
34) Vinyl Acetate	3.77	43	29541	10.043 ppb	100
35) Ethyl tert Butyl Ether	4.37	59	42653	10.478 ppb	100
36) MEK (2-Butanone)	4.61	72	7517	48.680 ppb	100
37) Cis-1,2-DCE	4.51	61	30098	9.752 ppb	100
38) 2,2-Dichloropropane	4.49	77	31612	9.942 ppb	100
39) 2-Methylpentane	2.74	42	14767	9.925 ppb	100
40) 3-Methylpentane	3.03	57	37855	9.719 ppb	100
41) Chloroform	5.01	83	38869	9.982 ppb	100
42) Bromochloromethane	4.85	49	12703	10.275 ppb	100
44) 1,1,1-TCA	5.20	97	35676	10.298 ppb	100
45) Cyclohexane	5.25	56	32155	9.927 ppb	100
46) 1,1-Dichloropropene	5.44	75	28584	9.944 ppb	100
47) 2,2,4-Trimethylpentane	5.84	57	62510	9.543 ppb	100
49) Carbon Tetrachloride	5.42	117	30466	10.241 ppb	100
50) Tert Amyl Methyl Ether	5.92	73	45848	10.031 ppb	100
51) Methylcyclopentane	4.30	56	41353	10.028 ppb	100
52) 1,2-DCA	5.75	62	22399	10.002 ppb	100
53) Benzene	5.70	78	95008	9.821 ppb	100
54) TCE	6.54	130	30131	10.121 ppb	100
55) 2-Pentanone	6.84	43	92882	131.160 ppb	100
56) 1,2-Dichloropropane	6.81	63	22250	10.511 ppb	100
57) Bromodichloromethane	7.17	83	26591	10.371 ppb	100
58) Methyl Cyclohexane	6.74	83	40101	9.709 ppb	100
59) Dibromomethane	6.95	174	16032	10.181 ppb	100
60) MIBK (methyl isobutyl ket	7.91	43	52426	48.735 ppb	100
61) 1-Bromo-2-chloroethane	7.50	144	3725	10.187 ppb	100
62) 2-Chloroethyl vinyl ether	7.57	43	28309	47.895 ppb	100
63) Cis-1,3-Dichloropropene	7.70	75	34372	10.272 ppb	100
64) Toluene	8.05	91	113680	9.616 ppb	100
65) Trans-1,3-Dichloropropene	8.35	75	28674	10.323 ppb	100
66) 1,1,2-TCA	8.54	97	19000	9.994 ppb	100
67) 2-Hexanone	8.86	58	23720	49.409 ppb	100
70) 1,2-EDB	9.06	107	17919	9.542 ppb	100
71) Tetrachloroethene	8.66	166	33253	9.985 ppb	100
72) 1-Chlorohexane	9.62	91	38557	9.934 ppb	100
73) 1,1,1,2-Tetrachloroethane	9.72	131	22510	9.310 ppb	100
74) m&p-Xylene	9.88	91	203369	19.989 ppb	100
75) o-Xylene	10.31	91	101201	9.799 ppb	100
76) Styrene	10.33	104	72938	9.490 ppb	100
78) 1,3-Dichloropropane	8.72	76	32612	10.343 ppb	100
79) Dibromochloromethane	8.96	129	18700	9.145 ppb	100
80) Chlorobenzene	9.62	112	79274	9.828 ppb	100

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

Data File : M:\ZEUS\DATA\211206\1206Z22.D Vial: 7
Acq On : 06 Dec 21 17:48 Operator: MH
Sample : 10ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81)	Ethylbenzene	9.88	91	203369	9.989	ppb	100
82)	Bromoform	10.52	173	10982	8.894	ppb	100
84)	Isopropylbenzene	10.72	105	137795	10.014	ppb	100
85)	1,1,2,2-Tetrachloroethane	11.07	83	20434	9.520	ppb	100
86)	1,2,3-Trichloropropane	11.10	110	7173	9.646	ppb	100
87)	t-1,4-Dichloro-2-Butene	11.13	53	5077	9.707	ppb	100
88)	Bromobenzene	11.03	77	46142	10.035	ppb	100
89)	n-Propylbenzene	11.17	91	160153	9.806	ppb	100
90)	4-Ethyltoluene	11.30	105	139189	10.008	ppb	100
91)	2-Chlorotoluene	11.37	91	106219	9.935	ppb	100
92)	1,3,5-Trimethylbenzene	11.37	105	113681	10.125	ppb	100
93)	4-Chlorotoluene	11.37	91	106219	9.877	ppb	100
94)	Tert-Butylbenzene	11.72	119	104832	9.781	ppb	100
95)	1,2,4-Trimethylbenzene	11.78	105	108792	10.205	ppb	100
96)	Sec-Butylbenzene	11.96	105	153037	10.061	ppb	100
97)	p-Isopropyltoluene	11.72	119	104832	9.781	ppb	100
98)	Benzyl Chloride	12.33	91	43075	9.095	ppb	100
99)	1,3-DCB	12.07	146	66450	9.822	ppb	100
100)	1,4-DCB	12.17	146	66248	9.534	ppb	100
101)	n-Butylbenzene	12.57	91	113096	10.378	ppb	100
102)	1,2-DCB	12.57	146	60352	9.891	ppb	100
103)	Hexachloroethane	12.85	201	16383	8.835	ppb	100
104)	1,2-Dibromo-3-chloropropan	13.43	157	3864	9.119	ppb	100
105)	1,2,4-Trichlorobenzene	13.65	180	47618	9.991	ppb	100
106)	Hexachlorobutadiene	14.52	225	22412	9.645	ppb	100
107)	Naphthalene	14.60	128	78181	9.924	ppb	100
108)	1,2,3-Trichlorobenzene	14.86	180	35904	9.731	ppb	100

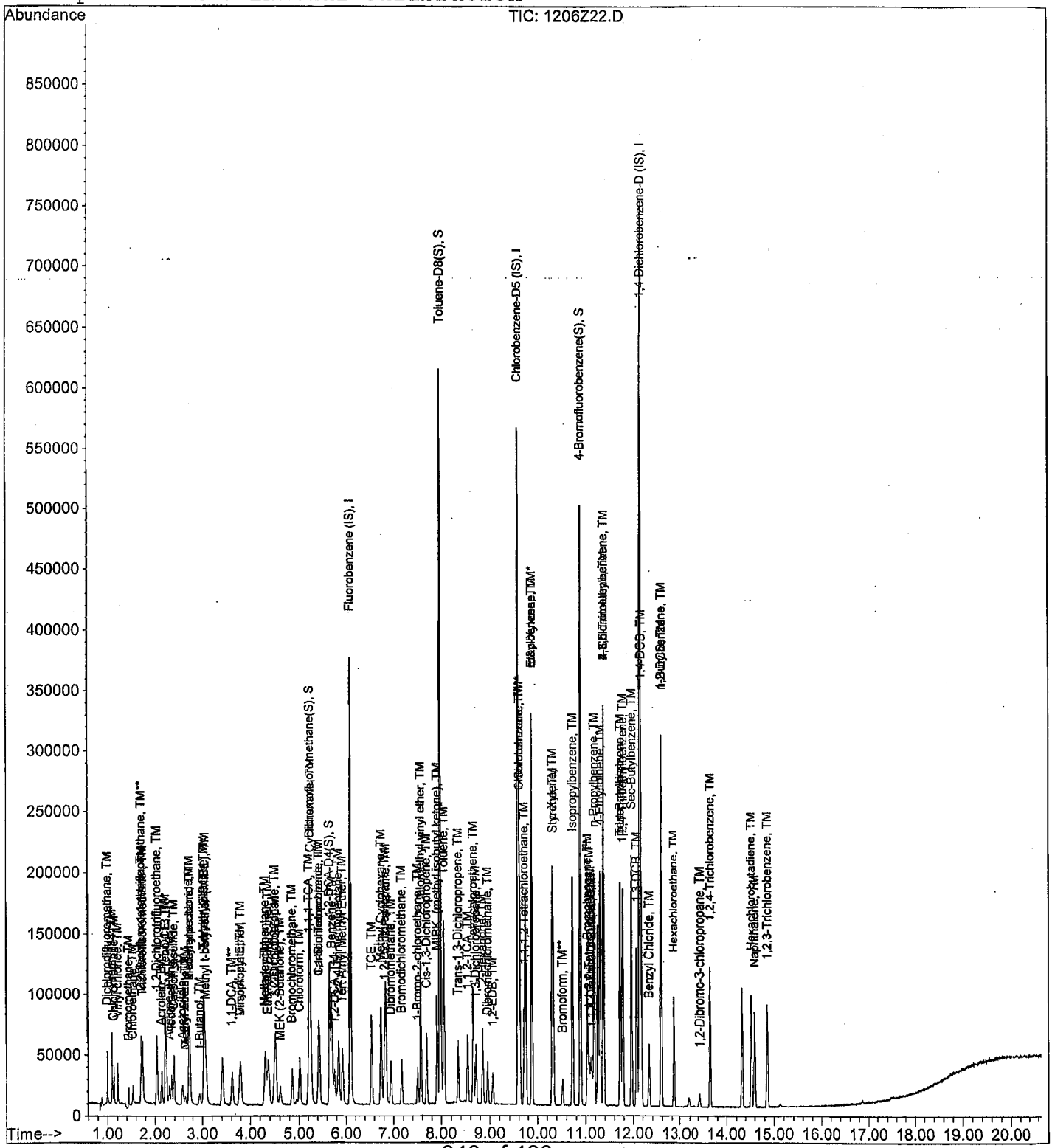
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z22.D Vial: 7
Acq On : 06 Dec 21 17:48 Operator: MH
Sample : 10ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z23.D Vial: 8
Acq On : 06 Dec 21 18:12 Operator: MH
Sample : 20ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	429143	25.000 ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	371190	25.000 ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	127840	25.000 ppb	0.00
System Monitoring Compounds					
43) Dibromofluoromethane(S)	5.23	111	211390	51.510 ppb	0.00
Spiked Amount 25.000			Recovery = 206.040%		
48) 1,2-DCA-D4(S)	5.65	65	178963	55.770 ppb	0.00
Spiked Amount 25.000			Recovery = 223.080%		
69) Toluene-D8(S)	7.98	98	942563	50.887 ppb	0.00
Spiked Amount 25.000			Recovery = 203.548%		
77) 4-Bromofluorobenzene(S)	10.88	95	386622	50.718 ppb	0.00
Spiked Amount 25.000			Recovery = 202.872%		
Target Compounds					Qvalue
3) Dichlorodifluoromethane	1.00	85	44451	18.310 ppb	98
4) Freon 114	1.09	85	35496	21.333 ppb	98
5) Chloromethane	1.13	50	32784	20.693 ppb	97
6) Vinyl chloride	1.21	62	37335	17.975 ppb	100
9) Bromomethane	1.45	94	10696	20.217 ppb	92
10) Chloroethane	1.53	66	4049	14.825 ppb	90
11) Dichlorofluoromethane	1.71	67	78769	23.029 ppb	95
12) Trichlorofluoromethane	1.74	101	70389	19.049 ppb	100
14) Diethyl ether	2.64	74	5204	19.550 ppb	93
15) 1,2 Dichlorotrifluoroethan	2.03	67	52255	14.538 ppb	96
16) Acrolein	2.13	55	17159	152.650 ppb	96
17) Acetone	2.29	43	18769	59.420 ppb	94
18) Freon-113	2.21	101	20920	18.655 ppb	97
19) 1,1-DCE	2.20	61	53733	18.902 ppb	96
21) Acetonitrile	2.58	40	5655	-25.000 ppb	91
22) t-Butanol	2.95	59	6517	158.151 ppb	96
23) Methyl Acetate	2.64	43	15601	19.859 ppb	96
24) Iodomethane	2.34	142	29936	20.959 ppb	99
25) Acrylonitrile	3.04	52	8664	21.348 ppb	86
26) Methylene chloride	2.72	49	39687	21.398 ppb	98
27) Carbon disulfide	2.39	76	64288	21.208 ppb	98
28) Methyl t-butyl ether (MtBE	3.07	73	90141	20.927 ppb	98
29) Trans-1,2-DCE	3.04	61	52118	18.321 ppb	94
30) Hexane	4.31	56	88052	20.412 ppb #	100
31) Diisopropyl Ether	3.79	45	82069	21.050 ppb	97
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	4337	22.212 ppb	86
33) 1,1-DCA	3.61	63	68899	18.640 ppb	99

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

Data File : M:\ZEUS\DATA\211206\1206Z23.D Vial: 8
Acq On : 06 Dec 21 18:12 Operator: MH
Sample : 20ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34)	Vinyl Acetate	3.77	43	62451	20.177	ppb	98
35)	Ethyl tert Butyl Ether	4.37	59	92004	21.479	ppb	97
36)	MEK (2-Butanone)	4.61	72	9825	58.891	ppb	89
37)	Cis-1,2-DCE	4.52	61	61144	18.827	ppb	97
38)	2,2-Dichloropropane	4.49	77	65068	19.448	ppb	97
39)	2-Methylpentane	2.74	42	31141	20.039	ppb	94
40)	3-Methylpentane	3.04	57	82124	19.981	ppb	95
41)	Chloroform	5.01	83	79055	19.294	ppb	97
42)	Bromochloromethane	4.86	49	25437	19.554	ppb	94
44)	1,1,1-TCA	5.20	97	74198	20.354	ppb	98
45)	Cyclohexane	5.25	56	69102	20.267	ppb	99
46)	1,1-Dichloropropene	5.44	75	61598	20.366	ppb	94
47)	2,2,4-Trimethylpentane	5.84	57	136548	19.810	ppb	99
49)	Carbon Tetrachloride	5.42	117	64975	20.758	ppb	98
50)	Tert Amyl Methyl Ether	5.92	73	99335	20.655	ppb	99
51)	Methylcyclopentane	4.31	56	88052	20.412	ppb	94
52)	1,2-DCA	5.76	62	45059	19.123	ppb	99
53)	Benzene	5.70	78	197208	19.374	ppb	98
54)	TCE	6.54	130	63899	20.398	ppb	98
55)	2-Pentanone	6.84	43	126928	170.341	ppb	99
56)	1,2-Dichloropropane	6.81	63	45749	20.539	ppb	100
57)	Bromodichloromethane	7.17	83	56114	20.799	ppb	93
58)	Methyl Cyclohexane	6.74	83	88643	20.396	ppb	98
59)	Dibromomethane	6.95	174	33460	20.499	ppb	96
60)	MIBK (methyl isobutyl ket	7.91	43	69947	60.682	ppb	98
61)	1-Bromo-2-chloroethane	7.50	144	7878	20.274	ppb	97
62)	2-Chloroethyl vinyl ether	7.57	43	38602	60.817	ppb	96
63)	Cis-1,3-Dichloropropene	7.70	75	74364	21.121	ppb	99
64)	Toluene	8.05	91	233943	18.807	ppb	100
65)	Trans-1,3-Dichloropropene	8.34	75	62277	21.307	ppb	98
66)	1,1,2-TCA	8.54	97	40868	20.429	ppb	98
67)	2-Hexanone	8.86	58	31090	60.602	ppb	94
70)	1,2-EDB	9.06	107	38478	19.515	ppb	98
71)	Tetrachloroethene	8.65	166	68499	20.305	ppb	98
72)	1-Chlorohexane	9.62	91	80032	20.422	ppb	98
73)	1,1,1,2-Tetrachloroethane	9.72	131	49470	19.211	ppb	99
74)	m&p-Xylene	9.88	91	417432	40.049	ppb	100
75)	o-Xylene	10.31	91	209067	19.759	ppb	99
76)	Styrene	10.33	104	157102	19.537	ppb	98
78)	1,3-Dichloropropane	8.72	76	69379	21.478	ppb	97
79)	Dibromochloromethane	8.96	129	41652	18.867	ppb	95
80)	Chlorobenzene	9.62	112	161663	19.564	ppb	98

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

Data File : M:\ZEUS\DATA\211206\1206Z23.D Vial: 8
Acq On : 06 Dec 21 18:12 Operator: MH
Sample : 20ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81)	Ethylbenzene	9.88	91	418308	20.054	ppb	100
82)	Bromoform	10.52	173	25304	18.243	ppb	99
84)	Isopropylbenzene	10.72	105	287917	20.564	ppb	99
85)	1,1,2,2-Tetrachloroethane	11.07	83	43119	19.006	ppb	98
86)	1,2,3-Trichloropropane	11.10	110	15203	19.568	ppb	92
87)	t-1,4-Dichloro-2-Butene	11.13	53	10708	19.358	ppb	94
88)	Bromobenzene	11.03	77	92377	19.754	ppb	97
89)	n-Propylbenzene	11.17	91	334650	20.138	ppb	100
90)	4-Ethyltoluene	11.30	105	286598	20.253	ppb	99
91)	2-Chlorotoluene	11.37	91	218246	20.201	ppb	100
92)	1,3,5-Trimethylbenzene	11.37	105	237894	20.823	ppb	99
93)	4-Chlorotoluene	11.37	91	218246	19.944	ppb	100
94)	Tert-Butylbenzene	11.72	119	222517	20.404	ppb	97
95)	1,2,4-Trimethylbenzene	11.78	105	231549	21.347	ppb	98
96)	Sec-Butylbenzene	11.96	105	320433	20.704	ppb	100
97)	p-Isopropyltoluene	11.72	119	222517	20.404	ppb	99
98)	Benzyl Chloride	12.33	91	94033	18.298	ppb	99
99)	1,3-DCB	12.07	146	135175	19.637	ppb	96
100)	1,4-DCB	12.17	146	135276	19.133	ppb	97
101)	n-Butylbenzene	12.57	91	240858	21.721	ppb	98
102)	1,2-DCB	12.57	146	122742	19.770	ppb	99
103)	Hexachloroethane	12.85	201	36817	17.623	ppb	93
104)	1,2-Dibromo-3-chloropropan	13.43	157	8730	18.429	ppb	93
105)	1,2,4-Trichlorobenzene	13.65	180	98576	20.326	ppb	95
106)	Hexachlorobutadiene	14.52	225	47521	19.729	ppb	95
107)	Naphthalene	14.60	128	170287	21.243	ppb	98
108)	1,2,3-Trichlorobenzene	14.86	180	74446	19.435	ppb	99

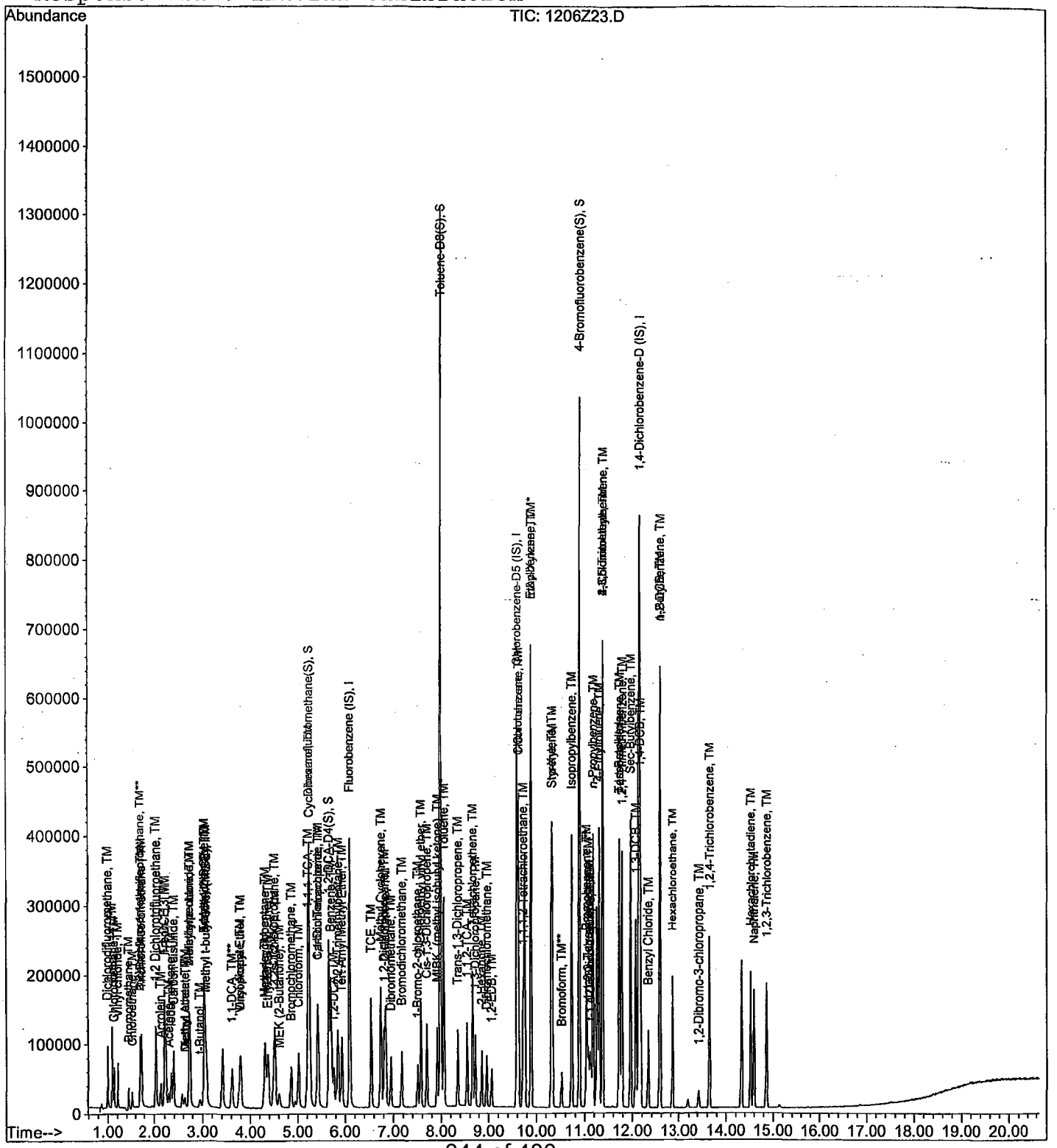
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z23.D Vial: 8
Acq On : 06 Dec 21 18:12 Operator: MH
Sample : 20ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z24.D Vial: 9
Acq On : 06 Dec 21 18:36 Operator: MH
Sample : 40ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	438913	25.000 ppb		0.00
68) Chlorobenzene-D5 (IS)	9.58	117	374368	25.000 ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	124832	25.000 ppb		0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	210639	50.201 ppb		0.00
Spiked Amount 25.000			Recovery = 200.804%			
48) 1,2-DCA-D4(S)	5.65	65	179326	54.639 ppb		0.00
Spiked Amount 25.000			Recovery = 218.556%			
69) Toluene-D8(S)	7.98	98	944015	50.544 ppb		0.00
Spiked Amount 25.000			Recovery = 202.176%			
77) 4-Bromofluorobenzene(S)	10.88	95	388955	50.595 ppb		0.00
Spiked Amount 25.000			Recovery = 202.380%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.00	85	93480	37.649 ppb		100
4) Freon 114	1.09	85	65744	39.211 ppb		99
5) Chloromethane	1.13	50	63990	40.573 ppb		98
6) Vinyl chloride	1.21	62	76181	35.862 ppb		100
9) Bromomethane	1.45	94	20881	41.074 ppb		87
10) Chloroethane	1.53	66	6265	25.013 ppb		99
11) Dichlorofluoromethane	1.71	67	153143	45.755 ppb		100
12) Trichlorofluoromethane	1.74	101	142111	37.602 ppb		98
14) Diethyl ether	2.64	74	11087	40.054 ppb	#	93
15) 1,2 Dichlorotrifluoroethan	2.03	67	103571	30.233 ppb		98
16) Acrolein	2.13	55	19092	166.066 ppb		100
17) Acetone	2.29	43	24694	76.438 ppb		90
18) Freon-113	2.22	101	42992	37.483 ppb		95
19) 1,1-DCE	2.20	61	104706	36.013 ppb		98
21) Acetonitrile	2.58	40	5848	-25.000 ppb		97
22) t-Butanol	2.95	59	7737	183.578 ppb		96
23) Methyl Acetate	2.64	43	31763	39.600 ppb		98
24) Iodomethane	2.34	142	63104	44.075 ppb		98
25) Acrylonitrile	3.04	52	17195	42.108 ppb		97
26) Methylene chloride	2.72	49	77420	41.934 ppb		99
27) Carbon disulfide	2.39	76	128368	42.622 ppb		99
28) Methyl t-butyl ether (MtBE	3.07	73	190427	43.224 ppb		99
29) Trans-1,2-DCE	3.04	61	102917	35.373 ppb		97
30) Hexane	4.30	56	184278	41.890 ppb	#	99
31) Diisopropyl Ether	3.79	45	170474	42.752 ppb		99
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	8574	44.357 ppb		90
33) 1,1-DCA	3.61	63	137357	36.334 ppb		99

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

Data File : M:\ZEUS\DATA\211206\1206Z24.D Vial: 9
Acq On : 06 Dec 21 18:36 Operator: MH
Sample : 40ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34)	Vinyl Acetate	3.77	43	129022	40.757	ppb	98
35)	Ethyl tert Butyl Ether	4.37	59	193239	44.109	ppb	96
36)	MEK (2-Butanone)	4.61	72	14078	79.893	ppb	94
37)	Cis-1,2-DCE	4.52	61	121377	36.542	ppb	98
38)	2,2-Dichloropropane	4.49	77	129373	37.807	ppb	99
39)	2-Methylpentane	2.74	42	66718	42.138	ppb	99
40)	3-Methylpentane	3.03	57	175276	41.638	ppb	96
41)	Chloroform	5.01	83	156492	37.342	ppb	97
42)	Bromochloromethane	4.86	49	50678	38.089	ppb	96
44)	1,1,1-TCA	5.20	97	148374	39.796	ppb	100
45)	Cyclohexane	5.25	56	139315	39.943	ppb	98
46)	1,1-Dichloropropene	5.43	75	125928	40.708	ppb	98
47)	2,2,4-Trimethylpentane	5.84	57	280195	39.746	ppb	100
49)	Carbon Tetrachloride	5.42	117	131961	41.219	ppb	99
50)	Tert Amyl Methyl Ether	5.92	73	209979	42.691	ppb	96
51)	Methylcyclopentane	4.30	56	184278	41.890	ppb	94
52)	1,2-DCA	5.75	62	89257	37.037	ppb	97
53)	Benzene	5.70	78	396620	38.098	ppb	99
54)	TCE	6.54	130	131075	40.910	ppb	98
55)	2-Pentanone	6.84	43	157091	206.128	ppb	99
56)	1,2-Dichloropropane	6.81	63	92050	40.406	ppb	99
57)	Bromodichloromethane	7.17	83	117525	42.592	ppb	96
58)	Methyl Cyclohexane	6.74	83	183172	41.208	ppb	98
59)	Dibromomethane	6.95	174	67651	40.827	ppb	98
60)	MIBK (methyl isobutyl ket	7.91	43	95540	79.647	ppb	99
61)	1-Bromo-2-chloroethane	7.50	144	16129	40.386	ppb	95
62)	2-Chloroethyl vinyl ether	7.57	43	52384	79.311	ppb	97
63)	Cis-1,3-Dichloropropene	7.70	75	156116	43.354	ppb	96
64)	Toluene	8.05	91	467029	36.710	ppb	100
65)	Trans-1,3-Dichloropropene	8.34	75	132351	44.274	ppb	99
66)	1,1,2-TCA	8.54	97	84103	41.105	ppb	99
67)	2-Hexanone	8.86	58	42787	80.217	ppb	99
70)	1,2-EDB	9.06	107	80976	40.239	ppb	99
71)	Tetrachloroethene	8.66	166	139465	41.222	ppb	98
72)	1-Chlorohexane	9.62	91	163680	41.709	ppb	96
73)	1,1,1,2-Tetrachloroethane	9.72	131	104917	39.665	ppb	98
74)	m&p-Xylene	9.88	91	836255	79.549	ppb	100
75)	o-Xylene	10.31	91	420940	39.445	ppb	100
76)	Styrene	10.33	104	331090	40.416	ppb	99
78)	1,3-Dichloropropane	8.72	76	142535	43.751	ppb	97
79)	Dibromochloromethane	8.96	129	89975	39.423	ppb	96
80)	Chlorobenzene	9.62	112	322361	38.680	ppb	97

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z24.D Vial: 9
Acq On : 06 Dec 21 18:36 Operator: MH
Sample : 40ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
81)	Ethylbenzene	9.88	91	838155	39.841	ppb		100
82)	Bromoform	10.52	173	54946	37.652	ppb		100
84)	Isopropylbenzene	10.73	105	581901	42.563	ppb		99
85)	1,1,2,2-Tetrachloroethane	11.07	83	89308	39.544	ppb		98
86)	1,2,3-Trichloropropane	11.10	110	30427	39.598	ppb	#	89
87)	t-1,4-Dichloro-2-Butene	11.14	53	21910	39.785	ppb		91
88)	Bromobenzene	11.03	77	185495	40.631	ppb		99
89)	n-Propylbenzene	11.18	91	670078	41.295	ppb		99
90)	4-Ethyltoluene	11.30	105	569407	41.208	ppb		98
91)	2-Chlorotoluene	11.37	91	430778	40.975	ppb		100
92)	1,3,5-Trimethylbenzene	11.37	105	477006	42.759	ppb		98
93)	4-Chlorotoluene	11.37	91	430778	40.315	ppb		100
94)	Tert-Butylbenzene	11.73	119	443212	41.620	ppb		97
95)	1,2,4-Trimethylbenzene	11.78	105	466648	44.058	ppb		97
96)	Sec-Butylbenzene	11.96	105	638091	42.221	ppb		99
97)	p-Isopropyltoluene	11.73	119	443212	41.620	ppb		100
98)	Benzyl Chloride	12.33	91	199889	38.587	ppb		99
99)	1,3-DCB	12.07	146	268612	39.961	ppb		96
100)	1,4-DCB	12.17	146	267616	38.764	ppb		99
101)	n-Butylbenzene	12.57	91	484414	44.738	ppb		99
102)	1,2-DCB	12.57	146	244455	40.323	ppb		98
103)	Hexachloroethane	12.85	201	80191	37.384	ppb	#	85
104)	1,2-Dibromo-3-chloropropan	13.43	157	18709	38.666	ppb		95
105)	1,2,4-Trichlorobenzene	13.65	180	199077	42.038	ppb		98
106)	Hexachlorobutadiene	14.52	225	94918	40.001	ppb		96
107)	Naphthalene	14.60	128	354074	45.235	ppb		99
108)	1,2,3-Trichlorobenzene	14.86	180	149998	39.697	ppb		99

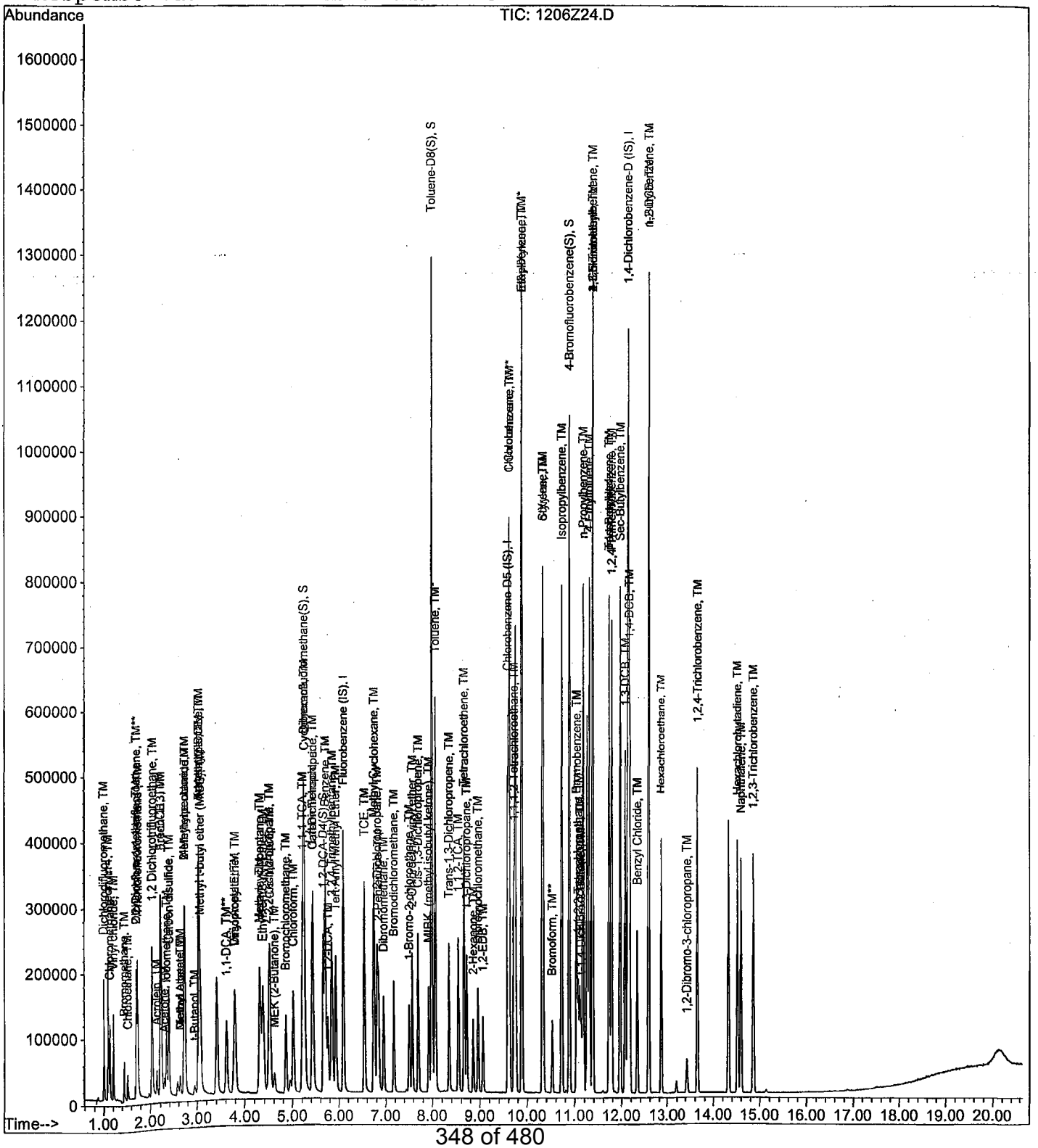
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z24.D Vial: 9
Acq On : 06 Dec 21 18:36 Operator: MH
Sample : 40ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z25.D Vial: 10
Acq On : 06 Dec 21 19:00 Operator: MH
Sample : 100ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	457473	25.000 ppb		0.00
68) Chlorobenzene-D5 (IS)	9.58	117	388410	25.000 ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	126216	25.000 ppb		0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	434953	98.851 ppb		0.00
Spiked Amount 25.000			Recovery = 395.404%			
48) 1,2-DCA-D4(S)	5.66	65	368985	107.865 ppb		0.00
Spiked Amount 25.000			Recovery = 431.460%			
69) Toluene-D8(S)	7.98	98	1954424	99.278 ppb		0.00
Spiked Amount 25.000			Recovery = 397.112%			
77) 4-Bromofluorobenzene(S)	10.88	95	806582	99.376 ppb		0.00
Spiked Amount 25.000			Recovery = 397.504%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.00	85	236889	91.536 ppb		100
4) Freon 114	1.09	85	129027	74.462 ppb		99
5) Chloromethane	1.13	50	160814	99.510 ppb		97
6) Vinyl chloride	1.21	62	194760	87.962 ppb		100
9) Bromomethane	1.45	94	50744	99.407 ppb		87
10) Chloroethane	1.52	66	10408	48.419 ppb		90
11) Dichlorofluoromethane	1.71	67	330361	97.048 ppb		99
12) Trichlorofluoromethane	1.73	101	337732	85.738 ppb		99
14) Diethyl ether	2.64	74	29148	100.090 ppb	#	93
15) 1,2 Dichlorotrifluoroethan	2.03	67	257811	75.253 ppb		98
16) Acrolein	2.13	55	22964	191.641 ppb		97
17) Acetone	2.30	43	31595	93.831 ppb		93
18) Freon-113	2.21	101	101584	84.974 ppb		94
19) 1,1-DCE	2.19	61	254395	83.949 ppb		97
21) Acetonitrile	2.58	40	5745	147.587 ppb		91
22) t-Butanol	2.97	59	7647	174.081 ppb	#	91
23) Methyl Acetate	2.64	43	83659	100.171 ppb		100
24) Iodomethane	2.34	142	145088	98.223 ppb		98
25) Acrylonitrile	3.04	52	41683	98.897 ppb		99
26) Methylene chloride	2.72	49	187144	98.880 ppb		99
27) Carbon disulfide	2.38	76	304704	98.700 ppb		99
28) Methyl t-butyl ether (MtBE	3.08	73	487462	106.158 ppb		95
29) Trans-1,2-DCE	3.04	61	247031	81.460 ppb		97
30) Hexane	4.30	56	454086	99.194 ppb	#	99
31) Diisopropyl Ether	3.79	45	442145	106.384 ppb		97
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	19335	97.744 ppb		92
33) 1,1-DCA	3.61	63	335347	85.107 ppb		99

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

Data File : M:\ZEUS\DATA\211206\1206Z25.D Vial: 10
Acq On : 06 Dec 21 19:00 Operator: MH
Sample : 100ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
34)	Vinyl Acetate	3.77	43	322670	97.793	ppb	99
35)	Ethyl tert Butyl Ether	4.37	59	507116	111.059	ppb	95
36)	MEK (2-Butanone)	4.61	72	19381	103.435	ppb	83
37)	Cis-1,2-DCE	4.51	61	295464	85.345	ppb	99
38)	2,2-Dichloropropane	4.49	77	315591	88.484	ppb	99
39)	2-Methylpentane	2.74	42	163333	99.172	ppb	97
40)	3-Methylpentane	3.03	57	436448	99.398	ppb	96
41)	Chloroform	5.01	83	382726	87.621	ppb	96
42)	Bromochloromethane	4.86	49	123925	89.363	ppb	97
44)	1,1,1-TCA	5.20	97	363894	93.641	ppb	99
45)	Cyclohexane	5.25	56	338987	93.237	ppb	98
46)	1,1-Dichloropropene	5.44	75	308416	95.655	ppb	98
47)	2,2,4-Trimethylpentane	5.84	57	713490	97.103	ppb	100
49)	Carbon Tetrachloride	5.42	117	325476	97.541	ppb	99
50)	Tert Amyl Methyl Ether	5.92	73	561457	109.518	ppb	95
51)	Methylcyclopentane	4.30	56	454086	99.194	ppb	93
52)	1,2-DCA	5.76	62	222114	88.427	ppb	98
53)	Benzene	5.70	78	977876	90.121	ppb	98
54)	TCE	6.54	130	322853	96.678	ppb	97
55)	2-Pentanone	6.84	43	192711	242.608	ppb	99
56)	1,2-Dichloropropane	6.81	63	228537	96.247	ppb	98
57)	Bromodichloromethane	7.17	83	300216	104.387	ppb	94
58)	Methyl Cyclohexane	6.74	83	464544	100.269	ppb	98
59)	Dibromomethane	6.95	174	171192	99.564	ppb	99
60)	MIBK (methyl isobutyl ket	7.91	43	128750	101.761	ppb	99
61)	1-Bromo-2-chloroethane	7.50	144	41658	99.783	ppb	97
62)	2-Chloroethyl vinyl ether	7.57	43	71489	102.538	ppb	96
63)	Cis-1,3-Dichloropropene	7.70	75	400086	106.597	ppb	96
64)	Toluene	8.05	91	1145623	86.397	ppb	99
65)	Trans-1,3-Dichloropropene	8.35	75	344295	110.500	ppb	99
66)	1,1,2-TCA	8.54	97	215219	100.920	ppb	98
67)	2-Hexanone	8.85	58	56746	101.023	ppb	98
70)	1,2-EDB	9.06	107	210292	100.057	ppb	98
71)	Tetrachloroethene	8.66	166	348056	99.474	ppb	99
72)	1-Chlorohexane	9.62	91	402555	99.264	ppb	94
73)	1,1,1,2-Tetrachloroethane	9.72	131	278248	100.360	ppb	100
74)	m&p-Xylene	9.88	91	2044199	187.426	ppb	100
75)	o-Xylene	10.31	91	1045067	94.390	ppb	100
76)	Styrene	10.33	104	854578	99.988	ppb	100
78)	1,3-Dichloropropane	8.72	76	361759	107.027	ppb	98
79)	Dibromochloromethane	8.96	129	241315	100.538	ppb	96
80)	Chlorobenzene	9.62	112	803130	92.882	ppb	98

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z25.D Vial: 10
Acq On : 06 Dec 21 19:00 Operator: MH
Sample : 100ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:24 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:23:27 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
81)	Ethylbenzene	9.88	91	2046563	93.765	ppb		100
82)	Bromoform	10.52	173	157242	101.376	ppb		99
84)	Isopropylbenzene	10.73	105	1432414	103.624	ppb		98
85)	1,1,2,2-Tetrachloroethane	11.07	83	231789	100.431	ppb		99
86)	1,2,3-Trichloropropane	11.10	110	78494	100.279	ppb		90
87)	t-1,4-Dichloro-2-Butene	11.13	53	56431	100.246	ppb		91
88)	Bromobenzene	11.03	77	460626	99.804	ppb		98
89)	n-Propylbenzene	11.18	91	1657896	101.050	ppb		98
90)	4-Ethyltoluene	11.30	105	1405370	100.592	ppb		98
91)	2-Chlorotoluene	11.37	91	1056565	99.592	ppb		100
92)	1,3,5-Trimethylbenzene	11.37	105	1175329	104.202	ppb		98
93)	4-Chlorotoluene	11.37	91	1056565	97.795	ppb		100
94)	Tert-Butylbenzene	11.72	119	1103297	102.469	ppb		97
95)	1,2,4-Trimethylbenzene	11.78	105	1173029	109.536	ppb		97
96)	Sec-Butylbenzene	11.96	105	1580635	103.441	ppb		99
97)	p-Isopropyltoluene	11.72	119	1103297	102.469	ppb		99
98)	Benzyl Chloride	12.33	91	538117	100.979	ppb		100
99)	1,3-DCB	12.07	146	666848	98.119	ppb		97
100)	1,4-DCB	12.17	146	662443	94.901	ppb		100
101)	n-Butylbenzene	12.57	91	1216556	111.123	ppb		98
102)	1,2-DCB	12.57	146	603992	98.536	ppb		99
103)	Hexachloroethane	12.84	201	226454	101.607	ppb	#	82
104)	1,2-Dibromo-3-chloropropan	13.43	157	50585	100.904	ppb		92
105)	1,2,4-Trichlorobenzene	13.65	180	511224	106.769	ppb		97
106)	Hexachlorobutadiene	14.52	225	241413	100.105	ppb		98
107)	Naphthalene	14.60	128	927962	117.253	ppb		98
108)	1,2,3-Trichlorobenzene	14.86	180	385302	100.265	ppb		99

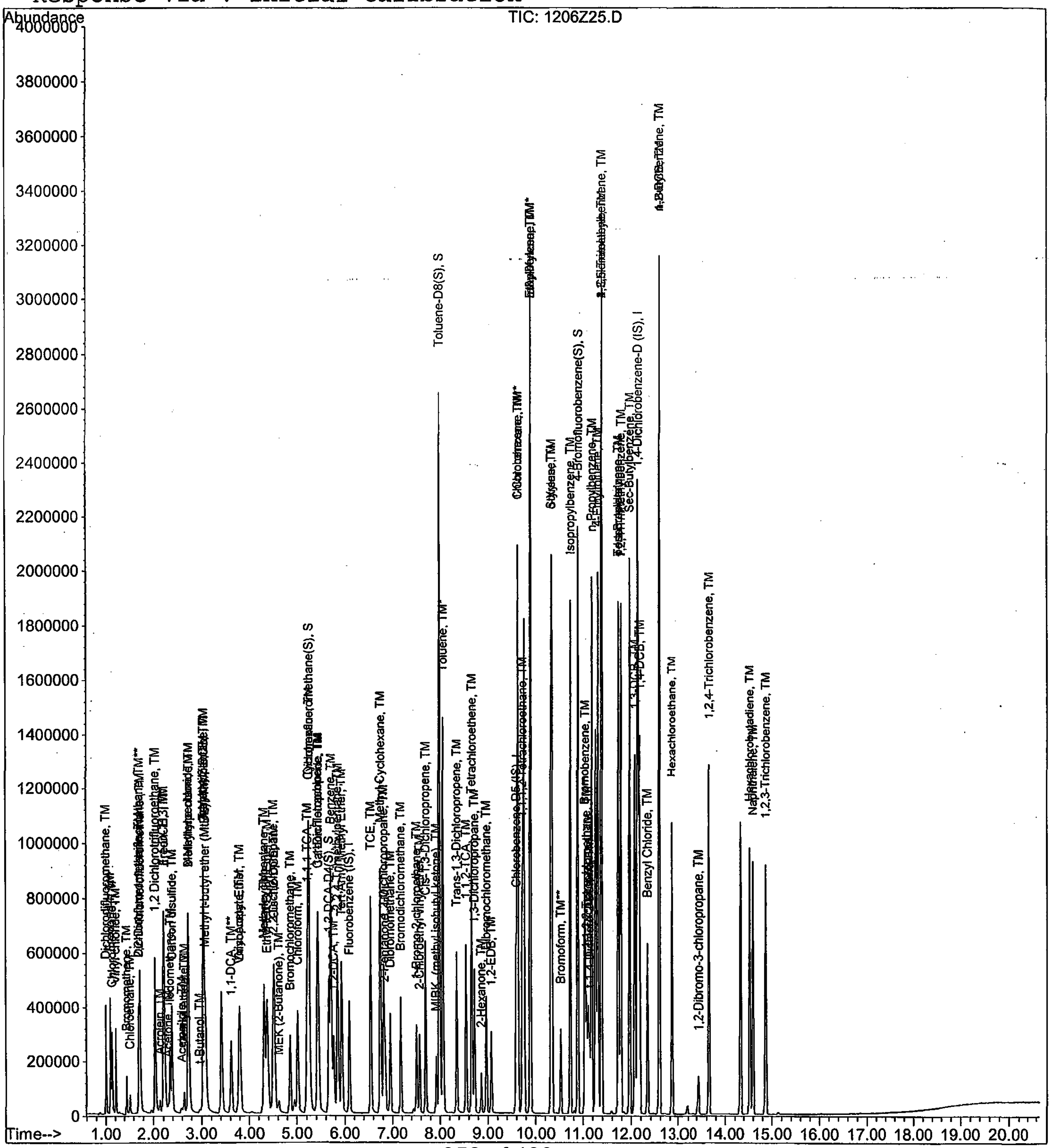
(#) = qualifier out of range (m) = manual integration

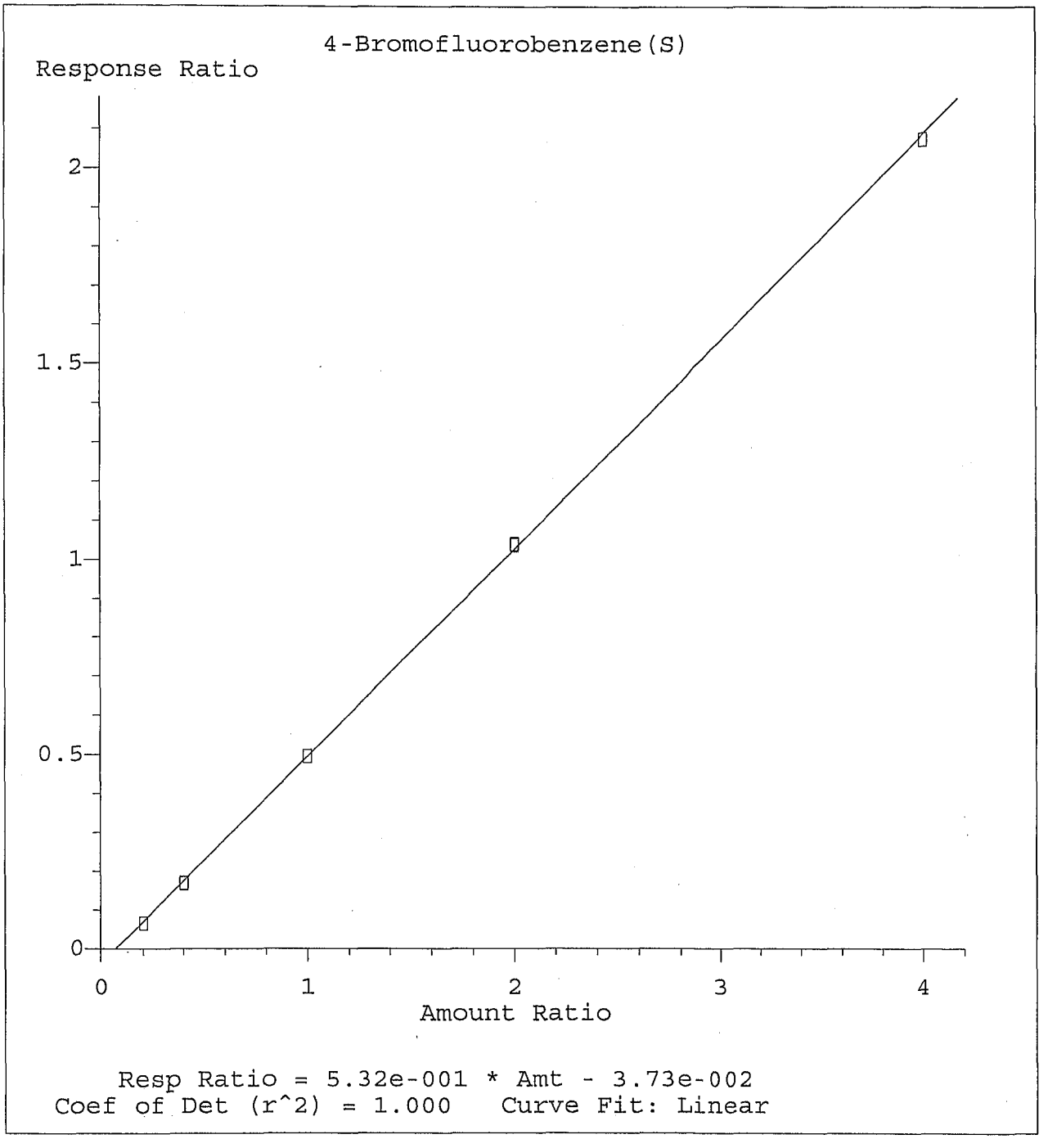
Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z25.D   Vial: 10
Acq On : 06 Dec 21 19:00   Operator: MH
Sample : 100ug/L VOC STD 12/6/21   Inst : Zeus
Misc :   Multiplr: 1.00

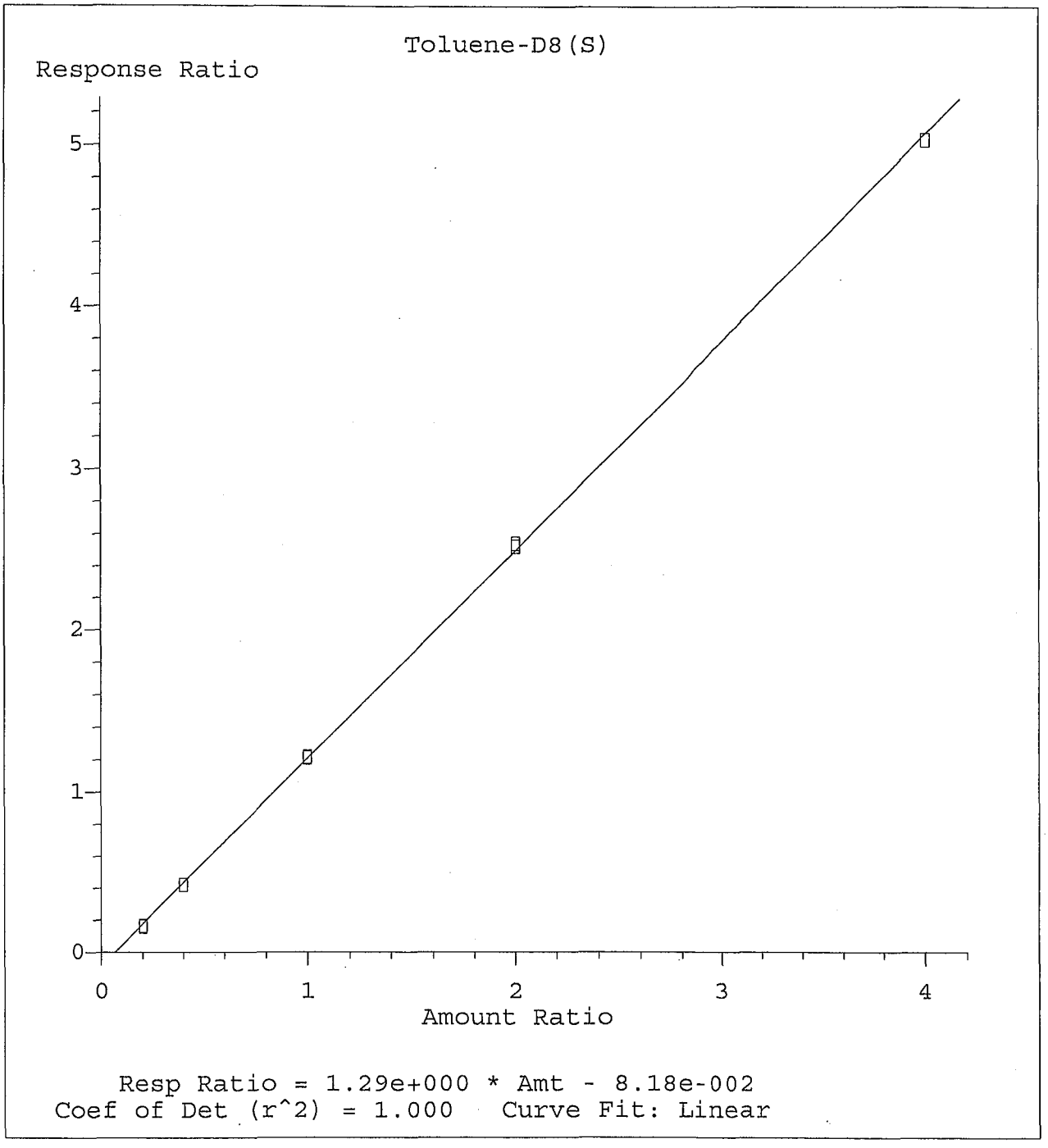
Quant Time: Dec 7 9:24 2021   Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration

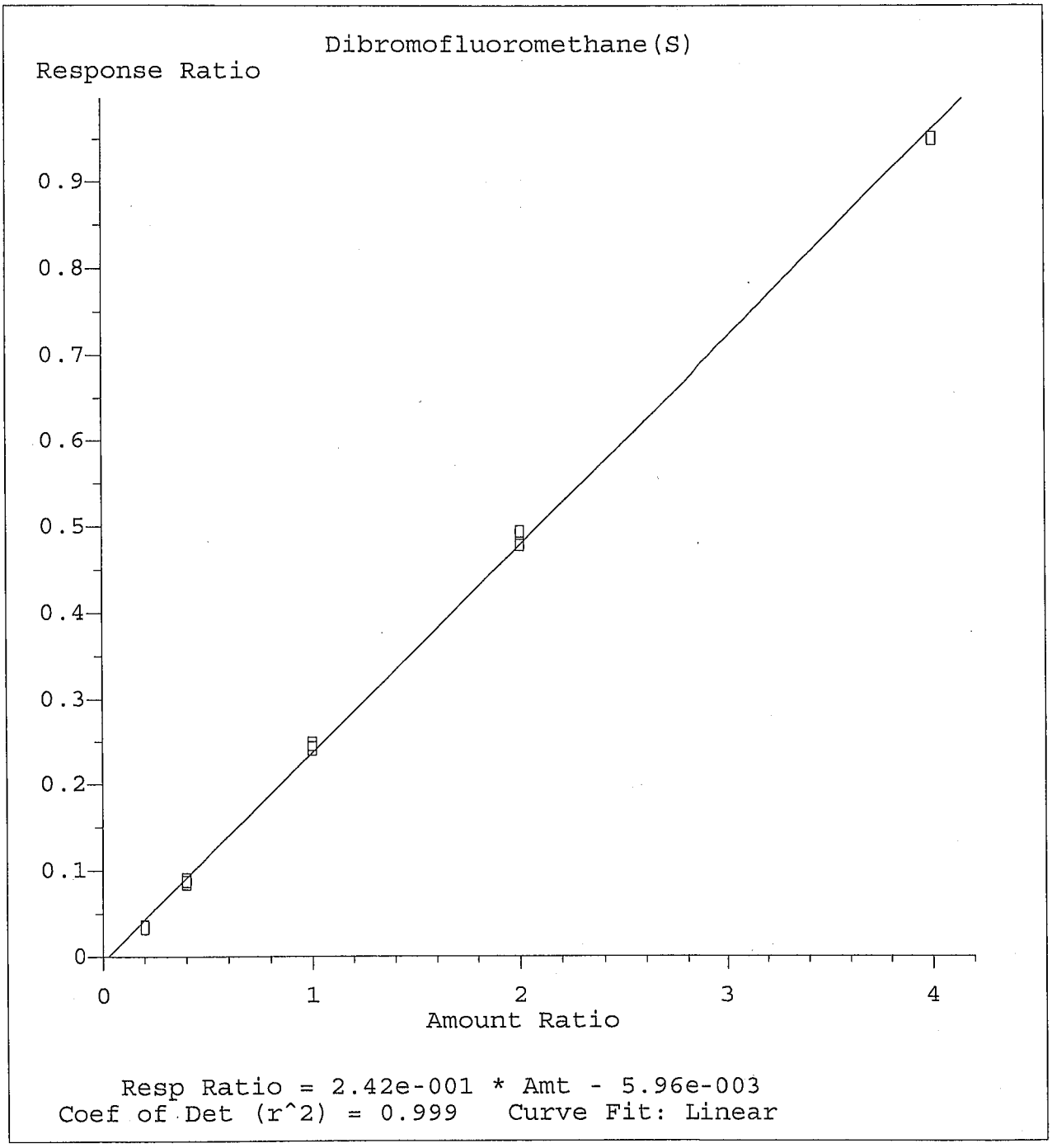




Method Name: M:\ZEUS\DATA\211206\Z120621W.M
Calibration Table Last Updated: Tue Dec 07 09:28:24 2021



Method Name: M:\ZEUS\DATA\211206\Z120621W.M
Calibration Table Last Updated: Tue Dec 07 09:28:24 2021



Method Name: M:\ZEUS\DATA\211206\Z120621W.M
Calibration Table Last Updated: Tue Dec 07 09:28:24 2021

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 12/6/2021
Matrix: WATER Instrument: Zeus
Initial Cal. Date: 12/6/2021
Data File: 1206Z27.D

		Compound	MEAN	CCRF	%D	%Drift		
1	TM	Dichlorodifluoromethane	0.1414	0.1463	3.4	TM		
2	TML	Freon 114	0.1242	0.1419	14	TML	44	*HIGH
3	TM**L	Chloromethane	0.1209	0.1270	5.0	TM**L	34	*HIGH
4	TM*	Vinyl chloride	0.1210	0.1301	7.6	TM*		
5		Butane	0.0000	0.0922	0.00			
6	TML	Bromomethane	0.0684	0.0507	26	TML	59	*HIGH
7	TMQ	Chloroethane	0.0237	0.0184	22	TMQ	8.8	
8	TML	Dichlorofluoromethane	0.2548	0.2678	5.1	TML	25	
9	TM	Trichlorofluoromethane	0.2153	0.2233	3.7	TM		
10	TML	Pentane	0.0000	0.0002	0.00	TML		
11	TML	Diethyl ether	0.0143	0.0169	18	TML	12	
12	TML	1,2 Dichlorotrifluoroethane	0.2548	0.1561	39	TML	36	*LOW
13	TM	Acrolein	0.0065	0.0069	4.9	TM		
14	TM	Acetone	0.0184	0.0185	0.62	TM		
15	TM	Freon-113	0.0653	0.0688	5.3	TM		
16	TM*	1,1-DCE	0.1656	0.1861	12	TM*		
17	TMQ	Acetonitrile	0.0031	0.0025	18	TMQ	20	
18	TM	t-Butanol	0.0024	0.0025	3.9	TM		
19	TML	Methyl Acetate	0.0491	0.0522	6.3	TML	14	
20	TML	Iodomethane	0.0919	0.0904	1.6	TML	4.7	
21	TML	Acrylonitrile	0.0222	0.0274	24	TML	13	
22	TML	Methylene chloride	0.1328	0.1351	1.7	TML	20	
23	TML	Carbon disulfide	0.2318	0.2724	18	TML	51	*HIGH
24	TM	Methyl t-butyl ether (MtBE)	0.2509	0.2852	14	TM		
25	TM	Trans-1,2-DCE	0.1657	0.1877	13	TM		
26	TML	Hexane	0.2248	0.2336	3.9	TML	7.7	
27	TM	Diisopropyl Ether	0.2271	0.2589	14	TM		
28	TM**L	2,2-Dichloro-1,1,1-trifluoroethane	0.0121	0.0143	19	TM**L	20	
29	TM**	1,1-DCA	0.2153	0.2323	7.9	TM**		
30	TM	Vinyl Acetate	0.1803	0.1866	3.5	TM		
31	TM	Ethyl tert Butyl Ether	0.2495	0.2859	15	TM		
32	TML	MEK (2-Butanone)	0.0081	0.0091	13	TML	3.6	
33	TM	Cis-1,2-DCE	0.1892	0.2093	11	TM		
34	TM	2,2-Dichloropropane	0.1949	0.2098	7.6	TM		
35	TML	2-Methylpentane	0.0845	0.0809	4.3	TML	11	
36	TML	3-Methylpentane	0.2100	0.2279	8.5	TML	4.5	
37	TM*	Chloroform	0.2387	0.2600	8.9	TM*		
38	TM	Bromochloromethane	0.0758	0.0863	14	TM		
39	TM	1,1,1-TCA	0.2124	0.2430	14	TM		
40	TML	Cyclohexane	0.2074	0.2346	13	TML	18	
		Average			10.6			

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Date Analyzed: 12/6/2021
Matrix: WATER Instrument: Zeus
Cal. Date: 12/6/2021
Data File: 1206Z27.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	1,1-Dichloropropene	0.1762	0.2046	16	TM	
42	TM	2,2,4-Trimethylpentane	0.4015	0.4263	6.2	TM	
43	TM	Carbon Tetrachloride	0.1824	0.2117	16	TM	
44	TM	Tert Amyl Methyl Ether	0.2802	0.3102	11	TM	
45	TML	Methylcyclopentane	0.2248	0.2336	3.9	TML	7.7
46	TM	1,2-DCA	0.1373	0.1510	10	TM	
47	TM	Benzene	0.5930	0.6713	13	TM	
48	TM	TCE	0.1825	0.2140	17	TM	
49	TM	2-Pentanone	0.0434	0.0445	2.6	TM	
50	TM*	1,2-Dichloropropane	0.1298	0.1501	16	TM*	
51	TM	Bromodichloromethane	0.1572	0.1765	12	TM	
52	TM	Methyl Cyclohexane	0.2532	0.2875	14	TM	
53	TML	Dibromomethane	0.0976	0.1103	13	TML	15
54	TML	MIBK (methyl isobutyl ketone)	0.0598	0.0648	8.5	TML	1.7
55	TML	1-Bromo-2-chloroethane	0.0174	0.0256	47	TML	14
56	TML	2-Chloroethyl vinyl ether	0.0335	0.0371	11	TML	1.8
57	TM	Cis-1,3-Dichloropropene	0.2051	0.2344	14	TM	
58	TM*	Toluene	0.7246	0.7870	8.6	TM*	
59	TM	Trans-1,3-Dichloropropene	0.1703	0.1922	13	TM	
60	TM	1,1,2-TCA	0.1165	0.1247	7.0	TM	
61	TML	2-Hexanone	0.0268	0.0297	11	TML	0.80
62	TML	1,2-EDB	0.1174	0.1378	17	TML	5.8
63	TML	Tetrachloroethene	0.2340	0.2647	13	TML	16
64	TML	1-Chlorohexane	0.2680	0.3061	14	TML	15
65	TML	1,1,1,2-Tetrachloroethane	0.1490	0.1720	15	TML	2.4
66	TM	m&p-Xylene	0.7020	0.7968	13	TM	
67	TM	o-Xylene	0.7126	0.7915	11	TM	
68	TML	Styrene	0.4969	0.5655	14	TML	6.2
69	TM	1,3-Dichloropropane	0.2176	0.2433	12	TM	
70	TML	Dibromochloromethane	0.1224	0.1440	18	TML	1.1
71	TM**	Chlorobenzene	0.5565	0.6128	10	TM**	
72	TM*	Ethylbenzene	1.405	1.594	13	TM*	
73	TM**L	Bromoform	0.0695	0.0824	19	TM**L	4.5
74	TM	Isopropylbenzene	2.738	3.217	18	TM	
75	TM**L	1,1,2,2-Tetrachloroethane	0.3849	0.4355	13	TM**L	1.5
76	TML	1,2,3-Trichloropropane	0.1246	0.1654	33	TML	11
77	TML	t-1,4-Dichloro-2-Butene	0.0794	0.1253	58	TML	19
78	TML	Bromobenzene	0.9290	1.044	12	TML	14
79	TM	n-Propylbenzene	3.250	3.744	15	TM	
80	TM	4-Ethyltoluene	2.767	3.284	19	TM	
		Average			15.2		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

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

SDG No:
Date Analyzed: 12/6/2021
Instrument: Zeus
Cal. Date: 12/6/2021
Data File: 1206Z27.D

		Compound	MEAN	CCRF	%D		%Drift
81	TML	2-Chlorotoluene	2.140	2.438	14	TML	15
82	TM	1,3,5-Trimethylbenzene	2.234	2.662	19	TM	
83	TM	4-Chlorotoluene	2.140	2.438	14	TM	
84	TM	Tert-Butylbenzene	2.133	2.432	14	TM	
85	TM	1,2,4-Trimethylbenzene	2.121	2.550	20	TM	
86	TM	Sec-Butylbenzene	3.027	3.513	16	TM	
87	TM	p-Isopropyltoluene	2.133	2.432	14	TM	
88	TML	Benzyl Chloride	0.8670	0.8126	6.3	TML	13
89	TM	1,3-DCB	1.346	1.545	15	TM	
90	TM	1,4-DCB	1.383	1.564	13	TM	
91	TM	n-Butylbenzene	2.168	2.554	18	TM	
92	TM	1,2-DCB	1.214	1.386	14	TM	
93	TML	Hexachloroethane	0.3085	0.3641	18	TML	3.1
94	TML	1,2-Dibromo-3-chloropropane	0.0698	0.0917	31	TML	5.9
95	TM	1,2,4-Trichlorobenzene	0.9484	1.095	15	TM	
96	TML	Hexachlorobutadiene	0.4430	0.5142	16	TML	11
97	TM	Naphthalene	1.568	1.791	14	TM	
98	TML	1,2,3-Trichlorobenzene	0.7135	0.8228	15	TML	11
99							
100							
101							
102							
103							
104							
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118							
119							
120							
		Average			15.9		

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z27.D Vial: 12
Acq On : 06 Dec 21 19:48 Operator: MH
Sample : (SS) 10ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:28 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	412017	25.000 ppb		0.00
68) Chlorobenzene-D5 (IS)	9.58	117	360860	25.000 ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	119576	25.000 ppb		0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	101579	26.089 ppb		0.00
Spiked Amount 25.000			Recovery = 104.356%			
48) 1,2-DCA-D4(S)	5.65	65	84274	27.354 ppb		0.00
Spiked Amount 25.000			Recovery = 109.416%			
69) Toluene-D8(S)	7.98	98	451444	25.876 ppb		0.00
Spiked Amount 25.000			Recovery = 103.504%			
77) 4-Bromofluorobenzene(S)	10.88	95	185281	25.891 ppb		0.00
Spiked Amount 25.000			Recovery = 103.564%			
Target Compounds						Qvalue
3) Dichlorodifluoromethane	0.99	85	24106	10.342 ppb		94
4) Freon 114	1.09	85	23392	14.419 ppb		98
5) Chloromethane	1.13	50	20928	13.189 ppb		98
6) Vinyl chloride	1.20	62	21449	10.756 ppb		100
9) Bromomethane	1.45	94	8357	15.943 ppb		89
10) Chloroethane	1.53	66	3039	10.883 ppb		91
11) Dichlorofluoromethane	1.71	67	44101	11.768 ppb		99
12) Trichlorofluoromethane	1.74	101	36800	10.373 ppb		100
14) Diethyl ether	2.64	74	2792	11.198 ppb		99
15) 1,2 Dichlorotrifluoroethan	2.03	67	25726	6.385 ppb		98
16) Acrolein	2.13	55	14150	131.114 ppb		98
17) Acetone	2.28	43	15257	50.309 ppb		98
18) Freon-113	2.22	101	11336	10.529 ppb		99
19) 1,1-DCE	2.20	61	30674	11.239 ppb		97
21) Acetonitrile	2.57	40	5201	150.342 ppb		90
22) t-Butanol	2.94	59	5139	129.894 ppb		99
23) Methyl Acetate	2.64	43	8603	11.378 ppb		94
24) Iodomethane	2.34	142	14903	10.469 ppb		98
25) Acrylonitrile	3.04	52	4518	11.263 ppb		97
26) Methylene chloride	2.72	49	22271	11.994 ppb		99
27) Carbon disulfide	2.38	76	44896	15.077 ppb		99
28) Methyl t-butyl ether (MtBE	3.07	73	47000	11.365 ppb		93
29) Trans-1,2-DCE	3.04	61	30938	11.328 ppb		98
30) Hexane	4.30	56	38499	9.232 ppb	#	100
31) Diisopropyl Ether	3.79	45	42675	11.401 ppb		94
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	2364	11.951 ppb		96
33) 1,1-DCA	3.61	63	38284	10.788 ppb		96

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z27.D Vial: 12
Acq On : 06 Dec 21 19:48 Operator: MH
Sample : (SS) 10ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:28 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
34) Vinyl Acetate	3.77	43	30758	10.350 ppb	#	92
35) Ethyl tert Butyl Ether	4.37	59	47116	11.457 ppb		90
36) MEK (2-Butanone)	4.61	72	7509	48.208 ppb		90
37) Cis-1,2-DCE	4.51	61	34502	11.065 ppb		97
38) 2,2-Dichloropropane	4.49	77	34579	10.765 ppb		96
39) 2-Methylpentane	2.74	42	13331	8.854 ppb		99
40) 3-Methylpentane	3.03	57	37556	9.546 ppb		93
41) Chloroform	5.01	83	42844	10.891 ppb		92
42) Bromochloromethane	4.85	49	14223	11.388 ppb		98
44) 1,1,1-TCA	5.21	97	40051	11.443 ppb		98
45) Cyclohexane	5.25	56	38657	11.813 ppb		99
46) 1,1-Dichloropropene	5.44	75	33727	11.615 ppb		96
47) 2,2,4-Trimethylpentane	5.84	57	70264	10.618 ppb		100
49) Carbon Tetrachloride	5.42	117	34888	11.609 ppb		99
50) Tert Amyl Methyl Ether	5.92	73	51123	11.072 ppb		98
51) Methylcyclopentane	4.30	56	38499	9.232 ppb		92
52) 1,2-DCA	5.75	62	24888	11.001 ppb		97
53) Benzene	5.70	78	110628	11.320 ppb		99
54) TCE	6.54	130	35275	11.728 ppb		97
55) 2-Pentanone	6.84	43	91719	128.206 ppb		99
56) 1,2-Dichloropropane	6.81	63	24742	11.570 ppb		99
57) Bromodichloromethane	7.17	83	29081	11.227 ppb		95
58) Methyl Cyclohexane	6.74	83	47375	11.354 ppb		98
59) Dibromomethane	6.95	174	18185	11.470 ppb		95
60) MIBK (methyl isobutyl ket	7.92	43	53431	49.129 ppb		99
61) 1-Bromo-2-chloroethane	7.50	144	4227	11.418 ppb		94
62) 2-Chloroethyl vinyl ether	7.57	43	30579	50.918 ppb		95
63) Cis-1,3-Dichloropropene	7.70	75	38628	11.427 ppb		97
64) Toluene	8.05	91	129695	10.860 ppb		99
65) Trans-1,3-Dichloropropene	8.35	75	31677	11.288 ppb		97
66) 1,1,2-TCA	8.54	97	20556	10.703 ppb		97
67) 2-Hexanone	8.85	58	24485	50.402 ppb		96
70) 1,2-EDB	9.06	107	19889	10.583 ppb		96
71) Tetrachloroethene	8.65	166	38202	11.552 ppb		99
72) 1-Chlorohexane	9.62	91	44180	11.472 ppb		97
73) 1,1,1,2-Tetrachloroethane	9.72	131	24829	10.239 ppb		99
74) m&p-Xylene	9.88	91	230016	22.700 ppb		99
75) o-Xylene	10.31	91	114244	11.106 ppb		99
76) Styrene	10.33	104	81627	10.616 ppb		100
78) 1,3-Dichloropropane	8.72	76	35115	11.182 ppb		95
79) Dibromochloromethane	8.96	129	20791	10.108 ppb		94
80) Chlorobenzene	9.62	112	88449	11.010 ppb		97

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

Data File : M:\ZEUS\DATA\211206\1206Z27.D Vial: 12
Acq On : 06 Dec 21 19:48 Operator: MH
Sample : (SS) 10ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:28 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
81)	Ethylbenzene	9.88	91	230016	11.343	ppb		99
82)	Bromoform	10.52	173	11890	9.545	ppb		100
84)	Isopropylbenzene	10.73	105	153887	11.751	ppb		98
85)	1,1,2,2-Tetrachloroethane	11.07	83	20829	10.148	ppb		97
86)	1,2,3-Trichloropropane	11.10	110	7909	11.099	ppb	#	88
87)	t-1,4-Dichloro-2-Butene	11.13	53	5991	11.865	ppb		97
88)	Bromobenzene	11.03	77	49922	11.409	ppb		96
89)	n-Propylbenzene	11.18	91	179069	11.520	ppb		99
90)	4-Ethyltoluene	11.30	105	157057	11.866	ppb		98
91)	2-Chlorotoluene	11.37	91	116604	11.480	ppb		98
92)	1,3,5-Trimethylbenzene	11.37	105	127340	11.917	ppb		99
93)	4-Chlorotoluene	11.37	91	116604	11.392	ppb		98
94)	Tert-Butylbenzene	11.73	119	116338	11.405	ppb		97
95)	1,2,4-Trimethylbenzene	11.78	105	121955	12.020	ppb		98
96)	Sec-Butylbenzene	11.96	105	168046	11.608	ppb		100
97)	p-Isopropyltoluene	11.73	119	116338	11.405	ppb		99
98)	Benzyl Chloride	12.33	91	38865	8.677	ppb		99
99)	1,3-DCB	12.07	146	73901	11.478	ppb		96
100)	1,4-DCB	12.17	146	74821	11.314	ppb		99
101)	n-Butylbenzene	12.57	91	122176	11.780	ppb		99
102)	1,2-DCB	12.57	146	66279	11.413	ppb		97
103)	Hexachloroethane	12.85	201	17417	9.686	ppb		93
104)	1,2-Dibromo-3-chloropropan	13.44	157	4388	10.593	ppb	#	81
105)	1,2,4-Trichlorobenzene	13.65	180	52376	11.546	ppb		99
106)	Hexachlorobutadiene	14.52	225	24594	11.069	ppb		96
107)	Naphthalene	14.60	128	85684	11.428	ppb		98
108)	1,2,3-Trichlorobenzene	14.86	180	39355	11.149	ppb		100

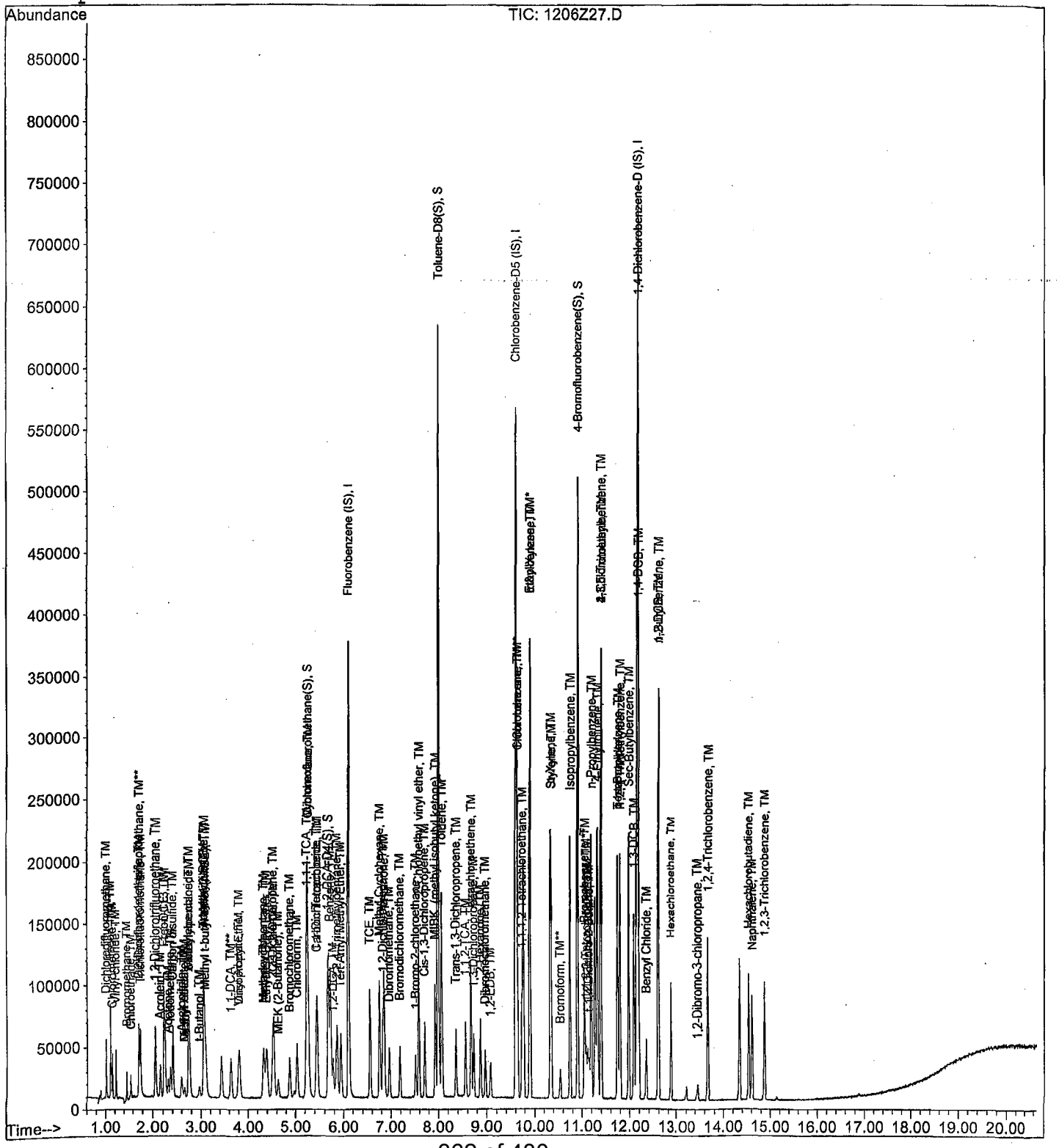
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z27.D Vial: 12
Acq On : 06 Dec 21 19:48 Operator: MH
Sample : (SS) 10ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 9:28 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 12/7/2021
Instrument: Zeus
Initial Cal. Date: 12/6/2021
Data File: 1207Z02.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	0.1414	0.1337	5.4	TM	
3	TML	Freon 114	0.1242	0.1103	11	TML	10
4	TM**L	Chloromethane	0.1251	0.0991	21	TM**L	0.95
5	TM*	Vinyl chloride	0.1210	0.1077	11	TM*	
6		Butane	0.0000	0.1039	0.00		
7	TML	Bromomethane	0.0684	0.0361	47	TML	5.6
8	TMQ	Chloroethane	0.0237	0.0149	37	TMQ	17
9	TML	Dichlorofluoromethane	0.2641	0.2073	22	TML	10
10	TM	Trichlorofluoromethane	0.2153	0.2148	0.23	TM	
11	TML	Pentane	0.0000	0.0004	0.00	TML	
12	TML	Diethyl ether	0.0143	0.0146	1.9	TML	2.7
13	TML	1,2 Dichlorotrifluoroethane	0.2548	0.1576	38	TML	35 *NT
14	TM	Acrolein	0.0065	0.0066	1.1	TM	
15	TM	Acetone	0.0184	0.0208	13	TM	
16	TM	Freon-113	0.0653	0.0668	2.2	TM	
17	TM*	1,1-DCE	0.1656	0.1611	2.7	TM*	
18	TMQ	Acetonitrile	0.0031	0.0023	24	TMQ	3.9
19	TM	t-Butanol	0.0024	0.0028	15	TM	
20	TML	Methyl Acetate	0.0491	0.0475	3.3	TML	3.5
21	TML	Iodomethane	0.0919	0.0712	23	TML	19
22	TML	Acrylonitrile	0.0222	0.0253	14	TML	3.3
23	TML	Methylene chloride	0.1328	0.1226	7.7	TML	7.7
24	TML	Carbon disulfide	0.2318	0.1839	21	TML	2.4
25	TM	Methyl t-butyl ether (MtBE)	0.2509	0.2622	4.5	TM	
26	TM	Trans-1,2-DCE	0.1657	0.1555	6.2	TM	
27	TML	Hexane	0.2248	0.2675	19	TML	5.9
28	TM	Diisopropyl Ether	0.2271	0.2383	4.9	TM	
29	TM**L	2,2-Dichloro-1,1,1-trifluoroethane	0.0121	0.0116	4.4	TM**L	6.5
30	TM**	1,1-DCA	0.2153	0.2098	2.6	TM**	
31	TM	Vinyl Acetate	0.1803	0.1918	6.4	TM	
32	TM	Ethyl tert Butyl Ether	0.2495	0.2618	4.9	TM	
33	TML	MEK (2-Butanone)	0.0081	0.0103	28	TML	7.6
34	TM	Cis-1,2-DCE	0.1892	0.1857	1.8	TM	
35	TM	2,2-Dichloropropane	0.1949	0.2011	3.2	TM	
36	TML	2-Methylpentane	0.0845	0.0961	14	TML	5.5
37	TML	3-Methylpentane	0.2100	0.2499	19	TML	4.6
38	TM*	Chloroform	0.2387	0.2354	1.4	TM*	
39	TM	Bromochloromethane	0.0758	0.0754	0.51	TM	
40	SL	Dibromofluoromethane(S)	0.2216	0.2360	6.5	SL	0.02
		Average			11.5		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 12/7/2021
Instrument: Zeus
Cal. Date: 12/6/2021
Data File: 1207Z02.D

		Compound	MEAN	CCRF	%D		%Drift
41	TM	1,1,1-TCA	0.2124	0.2216	4.4	TM	
42	TML	Cyclohexane	0.2074	0.2070	0.19	TML	4.3
43	TM	1,1-Dichloropropene	0.1762	0.1799	2.1	TM	
44	TM	2,2,4-Trimethylpentane	0.4015	0.4164	3.7	TM	
45	S	1,2-DCA-D4(S)	0.1869	0.2072	11	S	
46	TM	Carbon Tetrachloride	0.1824	0.1911	4.8	TM	
47	TM	Tert Amyl Methyl Ether	0.2802	0.2826	0.87	TM	
48	TML	Methylcyclopentane	0.2248	0.2675	19	TML	5.9
49	TM	1,2-DCA	0.1373	0.1367	0.43	TM	
50	TM	Benzene	0.5930	0.5772	2.7	TM	
51	TM	TCE	0.1825	0.1840	0.84	TM	
52	TM	2-Pentanone	0.0434	0.0474	9.2	TM	
53	TM*	1,2-Dichloropropane	0.1298	0.1336	2.9	TM*	
54	TM	Bromodichloromethane	0.1572	0.1599	1.7	TM	
55	TM	Methyl Cyclohexane	0.2532	0.2576	1.7	TM	
56	TML	Dibromomethane	0.0976	0.0945	3.1	TML	2.2
57	TML	MIBK (methyl isobutyl ketone)	0.0598	0.0759	27	TML	14
58	TML	1-Bromo-2-chloroethane	0.0174	0.0224	29	TML	0.06
59	TML	2-Chloroethyl vinyl ether	0.0335	0.0383	14	TML	4.9
60	TM	Cis-1,3-Dichloropropene	0.2051	0.2105	2.6	TM	
61	TM*	Toluene	0.7246	0.7029	3.0	TM*	
62	TM	Trans-1,3-Dichloropropene	0.1703	0.1724	1.3	TM	
63	TM	1,1,2-TCA	0.1165	0.1157	0.75	TM	
64	TML	2-Hexanone	0.0268	0.0347	29	TML	16
65	I	Chlorobenzene-D5 (IS)	ISTD			I	
66	SL	Toluene-D8(S)	1.104	1.247	13	SL	3.2
67	TML	1,2-EDB	0.1174	0.1244	6.0	TML	4.0
68	TML	Tetrachloroethene	0.2340	0.2320	0.86	TML	0.98
69	TML	1-Chlorohexane	0.2680	0.2834	5.8	TML	6.0
70	TML	1,1,1,2-Tetrachloroethane	0.1490	0.1570	5.4	TML	5.9
71	TM	m&p-Xylene	0.7020	0.7233	3.0	TM	
72	TM	o-Xylene	0.7126	0.7148	0.30	TM	
73	TML	Styrene	0.4969	0.5090	2.4	TML	4.1
74	SL	4-Bromofluorobenzene(S)	0.4508	0.5099	13	SL	2.9
75	TM	1,3-Dichloropropane	0.2176	0.2244	3.1	TM	
76	TML	Dibromochloromethane	0.1224	0.1278	4.4	TML	9.3
77	TM**	Chlorobenzene	0.5565	0.5467	1.8	TM**	
78	TM*	Ethylbenzene	1.405	1.447	3.0	TM*	
79	TM**L	Bromoform	0.0695	0.0741	6.7	TM**L	13
80	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
		Average			6.4		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 12/7/2021
Instrument: Zeus
Cal. Date: 12/6/2021
Data File: 1207Z02.D

		Compound	MEAN	CCRF	%D		%Drift
81	TM	Isopropylbenzene	2.738	2.885	5.4	TM	
82	TM**L	1,1,2,2-Tetrachloroethane	0.3849	0.4154	7.9	TM**L	2.9
83	TML	1,2,3-Trichloropropane	0.1246	0.1514	21	TML	2.0
84	TML	t-1,4-Dichloro-2-Butene	0.0794	0.1057	33	TML	1.2
85	TML	Bromobenzene	0.9290	0.9470	1.9	TML	3.5
86	TM	n-Propylbenzene	3.250	3.424	5.4	TM	
87	TM	4-Ethyltoluene	2.767	2.921	5.6	TM	
88	TML	2-Chlorotoluene	2.140	2.214	3.5	TML	4.1
89	TM	1,3,5-Trimethylbenzene	2.234	2.365	5.9	TM	
90	TM	4-Chlorotoluene	2.140	2.214	3.5	TM	
91	TM	Tert-Butylbenzene	2.133	2.220	4.1	TM	
92	TM	1,2,4-Trimethylbenzene	2.121	2.277	7.4	TM	
93	TM	Sec-Butylbenzene	3.027	3.254	7.5	TM	
94	TM	p-Isopropyltoluene	2.133	2.220	4.1	TM	
95	TML	Benzyl Chloride	0.8670	0.9023	4.1	TML	4.8
96	TM	1,3-DCB	1.346	1.375	2.1	TM	
97	TM	1,4-DCB	1.383	1.378	0.31	TM	
98	TM	n-Butylbenzene	2.168	2.362	8.9	TM	
99	TM	1,2-DCB	1.214	1.239	2.0	TM	
100	TML	Hexachloroethane	0.3085	0.3268	6.0	TML	11
101	TML	1,2-Dibromo-3-chloropropane	0.0698	0.0805	15	TML	5.2
102	TM	1,2,4-Trichlorobenzene	0.9484	0.9584	1.1	TM	
103	TML	Hexachlorobutadiene	0.4430	0.4593	3.7	TML	0.77
104	TM	Naphthalene	1.568	1.596	1.8	TM	
105	TML	1,2,3-Trichlorobenzene	0.7135	0.7368	3.3	TML	0.23
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			6.6		

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z02.D Vial: 2
Acq On : 07 Dec 21 15:30 Operator: MH
Sample : 211207A CCV 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	419379	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	9.58	117	367662	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	124264	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	5.23	111	98990	25.00	ppb		0.00
Spiked Amount 25.000			Recovery =	100.016%			
48) 1,2-DCA-D4(S)	5.65	65	86896	27.71	ppb		0.00
Spiked Amount 25.000			Recovery =	110.840%			
69) Toluene-D8(S)	7.98	98	458429	25.80	ppb		0.00
Spiked Amount 25.000			Recovery =	103.180%			
77) 4-Bromofluorobenzene(S)	10.88	95	187468	25.72	ppb		0.00
Spiked Amount 25.000			Recovery =	102.896%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.00	85	22436	9.46	ppb		97
4) Freon 114	1.09	85	18496	11.04	ppb		91
5) Chloromethane	1.13	50	16624	10.09	ppb		98
6) Vinyl chloride	1.20	62	18073	8.90	ppb		99
9) Bromomethane	1.45	94	6056	10.56	ppb		85
10) Chloroethane	1.53	66	2501	8.29	ppb		90
11) Dichlorofluoromethane	1.71	67	34780	9.00	ppb		95
12) Trichlorofluoromethane	1.74	101	36028	9.98	ppb		99
14) Diethyl ether	2.64	74	2447	9.73	ppb		99
15) 1,2 Dichlorotrifluoroethan	2.03	67	26431	6.46	ppb		98
16) Acrolein	2.13	55	13882	126.37	ppb		97
17) Acetone	2.28	43	17434	56.48	ppb		98
18) Freon-113	2.22	101	11203	10.22	ppb		99
19) 1,1-DCE	2.20	61	27030	9.73	ppb		96
21) Acetonitrile	2.58	40	4871	120.09	ppb		99
22) t-Butanol	2.95	59	5773	143.36	ppb	#	92
23) Methyl Acetate	2.64	43	7971	10.35	ppb		98
24) Iodomethane	2.34	142	11940	8.06	ppb		97
25) Acrylonitrile	3.04	52	4242	10.33	ppb		95
26) Methylene chloride	2.72	49	20570	10.77	ppb		94
27) Carbon disulfide	2.39	76	30848	9.76	ppb		99
28) Methyl t-butyl ether (MtBE	3.07	73	43981	10.45	ppb		98
29) Trans-1,2-DCE	3.04	61	26077	9.38	ppb		98
30) Hexane	4.30	56	44869	10.59	ppb	#	100
31) Diisopropyl Ether	3.79	45	39968	10.49	ppb		98
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	1941	9.35	ppb		92
33) 1,1-DCA	3.61	63	35197	9.74	ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z02.D Vial: 2
Acq On : 07 Dec 21 15:30 Operator: MH
Sample : 211207A CCV 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34) Vinyl Acetate	3.78	43	32177	10.64	ppb	#	93
35) Ethyl tert Butyl Ether	4.37	59	43920	10.49	ppb		97
36) MEK (2-Butanone)	4.61	72	8672	53.82	ppb		84
37) Cis-1,2-DCE	4.52	61	31157	9.82	ppb		94
38) 2,2-Dichloropropane	4.49	77	33736	10.32	ppb		98
39) 2-Methylpentane	2.74	42	16120	10.55	ppb		99
40) 3-Methylpentane	3.04	57	41914	10.46	ppb		94
41) Chloroform	5.01	83	39482	9.86	ppb		95
42) Bromochloromethane	4.85	49	12648	9.95	ppb		92
44) 1,1,1-TCA	5.20	97	37182	10.44	ppb		98
45) Cyclohexane	5.25	56	34731	10.43	ppb		97
46) 1,1-Dichloropropene	5.44	75	30179	10.21	ppb		97
47) 2,2,4-Trimethylpentane	5.83	57	69847	10.37	ppb		99
49) Carbon Tetrachloride	5.42	117	32052	10.48	ppb		95
50) Tert Amyl Methyl Ether	5.92	73	47404	10.09	ppb		97
51) Methylcyclopentane	4.30	56	44869	10.59	ppb		96
52) 1,2-DCA	5.75	62	22927	9.96	ppb		98
53) Benzene	5.70	78	96818	9.73	ppb		96
54) TCE	6.54	130	30872	10.08	ppb		99
55) 2-Pentanone	6.84	43	99400	136.50	ppb		98
56) 1,2-Dichloropropane	6.82	63	22405	10.29	ppb		96
57) Bromodichloromethane	7.17	83	26826	10.17	ppb		91
58) Methyl Cyclohexane	6.74	83	43206	10.17	ppb		96
59) Dibromomethane	6.95	174	15860	9.78	ppb		96
60) MIBK (methyl isobutyl ket	7.91	43	63691	56.82	ppb		100
61) 1-Bromo-2-chloroethane	7.50	144	3761	10.01	ppb		97
62) 2-Chloroethyl vinyl ether	7.57	43	32135	52.43	ppb		94
63) Cis-1,3-Dichloropropene	7.69	75	35317	10.26	ppb		96
64) Toluene	8.05	91	117911	9.70	ppb		98
65) Trans-1,3-Dichloropropene	8.34	75	28926	10.13	ppb		96
66) 1,1,2-TCA	8.54	97	19403	9.92	ppb		98
67) 2-Hexanone	8.86	58	29071	58.15	ppb		96
70) 1,2-EDB	9.06	107	18301	9.60	ppb		91
71) Tetrachloroethene	8.66	166	34118	10.10	ppb		99
72) 1-Chlorohexane	9.62	91	41679	10.60	ppb		95
73) 1,1,1,2-Tetrachloroethane	9.72	131	23096	9.41	ppb		98
74) m&p-Xylene	9.88	91	212739	20.61	ppb		99
75) o-Xylene	10.31	91	105121	10.03	ppb		99
76) Styrene	10.33	104	74850	9.59	ppb		98
78) 1,3-Dichloropropane	8.72	76	33001	10.31	ppb		98
79) Dibromochloromethane	8.96	129	18792	9.07	ppb		99
80) Chlorobenzene	9.61	112	80395	9.82	ppb		96

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

Data File : M:\ZEUS\DATA\211206\1207Z02.D Vial: 2
Acq On : 07 Dec 21 15:30 Operator: MH
Sample : 211207A CCV 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81)	Ethylbenzene	9.88	91	212741	10.30	ppb	99
82)	Bromoform	10.52	173	10903	8.73	ppb	96
84)	Isopropylbenzene	10.73	105	143410	10.54	ppb	99
85)	1,1,2,2-Tetrachloroethane	11.07	83	20646	9.71	ppb	100
86)	1,2,3-Trichloropropane	11.11	110	7526	10.20	ppb	90
87)	t-1,4-Dichloro-2-Butene	11.13	53	5252	10.12	ppb	95
88)	Bromobenzene	11.03	77	47070	10.35	ppb	95
89)	n-Propylbenzene	11.18	91	170216	10.54	ppb	100
90)	4-Ethyltoluene	11.30	105	145202	10.56	ppb	100
91)	2-Chlorotoluene	11.37	91	110048	10.41	ppb	99
92)	1,3,5-Trimethylbenzene	11.37	105	117547	10.59	ppb	97
93)	4-Chlorotoluene	11.37	91	110048	10.35	ppb	99
94)	Tert-Butylbenzene	11.73	119	110363	10.41	ppb	96
95)	1,2,4-Trimethylbenzene	11.78	105	113185	10.74	ppb	97
96)	Sec-Butylbenzene	11.96	105	161718	10.75	ppb	98
97)	p-Isopropyltoluene	11.73	119	110363	10.41	ppb	97
98)	Benzyl Chloride	12.33	91	44849	9.52	ppb	98
99)	1,3-DCB	12.07	146	68347	10.21	ppb	99
100)	1,4-DCB	12.17	146	68508	9.97	ppb	98
101)	n-Butylbenzene	12.57	91	117406	10.89	ppb	99
102)	1,2-DCB	12.57	146	61576	10.20	ppb	98
103)	Hexachloroethane	12.85	201	16245	8.85	ppb	94
104)	1,2-Dibromo-3-chloropropan	13.43	157	4001	9.48	ppb	91
105)	1,2,4-Trichlorobenzene	13.65	180	47638	10.11	ppb	100
106)	Hexachlorobutadiene	14.52	225	22828	9.92	ppb	94
107)	Naphthalene	14.60	128	79322	10.18	ppb	95
108)	1,2,3-Trichlorobenzene	14.86	180	36621	10.02	ppb	98

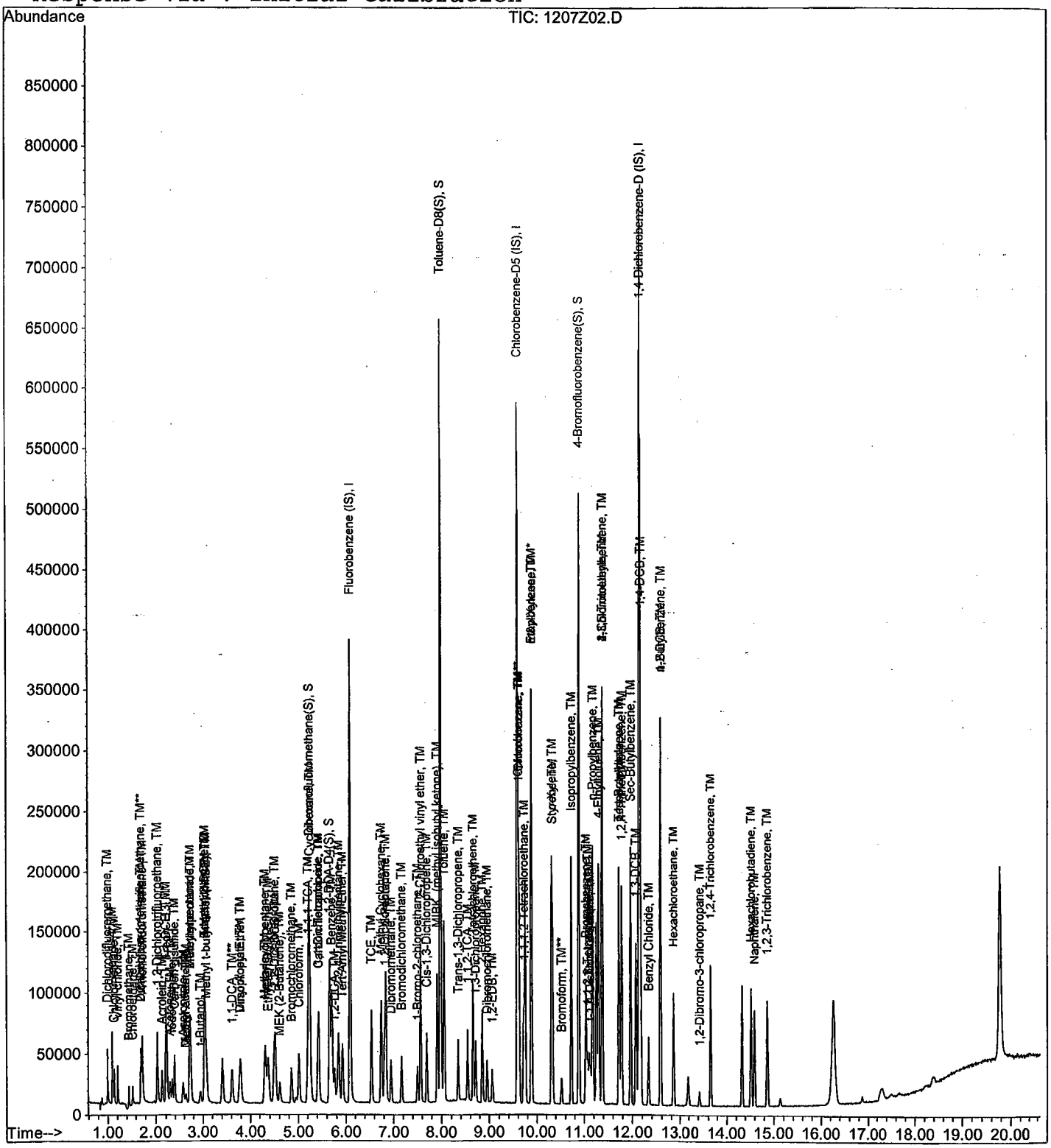
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z02.D Vial: 2
Acq On : 07 Dec 21 15:30 Operator: MH
Sample : 211207A CCV 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No:
Date Analyzed: 12/8/2021
Instrument: Zeus
Initial Cal. Date: 12/6/2021
Data File: 1207Z30.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	0.1414	0.1439	1.8	TM	
3	TML	Freon 114	0.1242	0.1305	5.1	TML	32
4	TM**L	Chloromethane	0.1251	0.1148	8.2	TM**L	18
5	TM*	Vinyl chloride	0.1210	0.1110	8.2	TM*	
6		Butane	0.0000	0.0954	0.00		
7	TML	Bromomethane	0.0684	0.0381	44	TML	13
8	TMQ	Chloroethane	0.0237	0.0168	29	TMQ	3.3
9	TML	Dichlorofluoromethane	0.2641	0.2573	2.6	TML	13
10	TM	Trichlorofluoromethane	0.2153	0.2280	5.9	TM	
11	TML	Pentane	0.0000	0.0001	0.00	TML	
12	TML	Diethyl ether	0.0143	0.0134	6.5	TML	10
13	TML	1,2 Dichlorotrifluoroethane	0.2548	0.1688	34	TML	29
14	TM	Acrolein	0.0065	0.0055	15	TM	
15	TM	Acetone	0.0184	0.0191	3.7	TM	
16	TM	Freon-113	0.0653	0.0673	3.1	TM	
17	TM*	1,1-DCE	0.1656	0.1677	1.3	TM*	
18	TML	2-Propanol	0.0000	0.0000	0.00	TML	
19	TMQ	Acetonitrile	0.0031	0.0025	18	TMQ	19
20	TM	t-Butanol	0.0024	0.0022	6.6	TM	
21	TML	Methyl Acetate	0.0491	0.0433	12	TML	5.8
22	TML	Iodomethane	0.0919	0.0919	0.07	TML	6.6
23	TML	Acrylonitrile	0.0222	0.0225	1.5	TML	8.8
24	TML	Methylene chloride	0.1328	0.1295	2.5	TML	14
25	TML	Carbon disulfide	0.2318	0.1914	17	TML	2.1
26	TM	Methyl t-butyl ether (MtBE)	0.2509	0.2369	5.6	TM	
27	TM	Trans-1,2-DCE	0.1657	0.1643	0.86	TM	
28	TML	Hexane	0.2248	0.2464	9.6	TML	2.6
29	TM	Diisopropyl Ether	0.2271	0.2300	1.3	TM	
30	TM**L	2,2-Dichloro-1,1,1-trifluoroethane	0.0121	0.0144	19	TM**L	20
31	TM**	1,1-DCA	0.2153	0.2239	4.0	TM**	
32	TM	Vinyl Acetate	0.1803	0.1424	21	TM	
33	TM	Ethyl tert Butyl Ether	0.2495	0.2450	1.8	TM	
34	TML	MEK (2-Butanone)	0.0081	0.0088	8.1	TML	6.9
35	TM	Cis-1,2-DCE	0.1892	0.1908	0.84	TM	
36	TM	2,2-Dichloropropane	0.1949	0.1808	7.3	TM	
37	TML	2-Methylpentane	0.0845	0.0895	5.9	TML	1.9
38	TML	3-Methylpentane	0.2100	0.2268	8.0	TML	5.0
39	TM*	Chloroform	0.2387	0.2478	3.8	TM*	
40	TM	Bromochloromethane	0.0758	0.0775	2.3	TM	
		Average			8.3		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No:
Date Analyzed: 12/8/2021
Instrument: Zeus
Cal. Date: 12/6/2021
Data File: 1207Z30.D

		Compound	MEAN	CCRF	%D		%Drift
41	SL	Dibromofluoromethane(S)	0.2216	0.2409	8.7	SL	2.0
42	TM	1,1,1-TCA	0.2124	0.2293	8.0	TM	
43	TML	Cyclohexane	0.2074	0.2061	0.65	TML	3.8
44	TM	1,1-Dichloropropene	0.1762	0.1790	1.6	TM	
45	TM	2,2,4-Trimethylpentane	0.4015	0.3862	3.8	TM	
46	S	1,2-DCA-D4(S)	0.1869	0.1960	4.8	S	
47	TM	Carbon Tetrachloride	0.1824	0.1987	9.0	TM	
48	TM	Tert Amyl Methyl Ether	0.2802	0.2599	7.2	TM	
49	TML	Methylcyclopentane	0.2248	0.2464	9.6	TML	2.6
50	TM	1,2-DCA	0.1373	0.1340	2.3	TM	
51	TM	Benzene	0.5930	0.5804	2.1	TM	
52	TM	TCE	0.1825	0.1901	4.1	TM	
53	TM	2-Pentanone	0.0434	0.0398	8.2	TM	
54	TM*	1,2-Dichloropropane	0.1298	0.1321	1.8	TM*	
55	TM	Bromodichloromethane	0.1572	0.1577	0.34	TM	
56	TM	Methyl Cyclohexane	0.2532	0.2538	0.26	TM	
57	TML	Dibromomethane	0.0976	0.0943	3.4	TML	2.5
58	TML	MIBK (methyl isobutyl ketone)	0.0598	0.0653	9.2	TML	1.2
59	TML	1-Bromo-2-chloroethane	0.0174	0.0211	21	TML	5.9
60	TML	2-Chloroethyl vinyl ether	0.0335	0.0334	0.43	TML	7.5
61	TM	Cis-1,3-Dichloropropene	0.2051	0.1955	4.7	TM	
62	TM*	Toluene	0.7246	0.7142	1.4	TM*	
63	TM	Trans-1,3-Dichloropropene	0.1703	0.1591	6.5	TM	
64	TM	1,1,2-TCA	0.1165	0.1094	6.1	TM	
65	TML	2-Hexanone	0.0268	0.0295	9.9	TML	0.05
66	I	Chlorobenzene-D5 (IS)	ISTD			I	
67	SL	Toluene-D8(S)	1.104	1.180	6.8	SL	2.0
68	TML	1,2-EDB	0.1174	0.1131	3.6	TML	12
69	TML	Tetrachloroethene	0.2340	0.2275	2.8	TML	1.0
70	TML	1-Chlorohexane	0.2680	0.2785	3.9	TML	4.1
71	TML	1,1,1,2-Tetrachloroethane	0.1490	0.1514	1.6	TML	9.1
72	TM	m&p-Xylene	0.7020	0.7173	2.2	TM	
73	TM	o-Xylene	0.7126	0.7109	0.24	TM	
74	TML	Styrene	0.4969	0.5056	1.7	TML	4.7
75	SL	4-Bromofluorobenzene(S)	0.4508	0.4874	8.1	SL	1.3
76	TM	1,3-Dichloropropane	0.2176	0.2102	3.4	TM	
77	TML	Dibromochloromethane	0.1224	0.1225	0.08	TML	13
78	TM**	Chlorobenzene	0.5565	0.5509	1.0	TM**	
79	TM*	Ethylbenzene	1.405	1.435	2.1	TM*	
80	TM**L	Bromoform	0.0695	0.0677	2.6	TM**L	19
		Average			4.5		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No:
Date Analyzed: 12/8/2021
Instrument: Zeus
Cal. Date: 12/6/2021
Data File: 1207Z30.D

		Compound	MEAN	CCRF	%D		%Drift
81	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
82	TM	Isopropylbenzene	2.738	2.869	4.8	TM	
83	TM**L	1,1,2,2-Tetrachloroethane	0.3849	0.3556	7.6	TM**L	16
84	TML	1,2,3-Trichloropropane	0.1246	0.1296	4.0	TML	12
85	TML	t-1,4-Dichloro-2-Butene	0.0794	0.0864	8.8	TML	16
86	TML	Bromobenzene	0.9290	0.9188	1.1	TML	0.42
87	TM	n-Propylbenzene	3.250	3.302	1.6	TM	
88	TM	4-Ethyltoluene	2.767	2.834	2.4	TM	
89	TML	2-Chlorotoluene	2.140	2.158	0.85	TML	1.5
90	TM	1,3,5-Trimethylbenzene	2.234	2.320	3.8	TM	
91	TM	4-Chlorotoluene	2.140	2.158	0.85	TM	
92	TM	Tert-Butylbenzene	2.133	2.160	1.3	TM	
93	TM	1,2,4-Trimethylbenzene	2.121	2.187	3.1	TM	
94	TM	Sec-Butylbenzene	3.027	3.170	4.7	TM	
95	TM	p-Isopropyltoluene	2.133	2.160	1.3	TM	
96	TML	Benzyl Chloride	0.8670	0.6171	29	TML	32
97	TM	1,3-DCB	1.346	1.330	1.2	TM	
98	TM	1,4-DCB	1.383	1.353	2.1	TM	
99	TM	n-Butylbenzene	2.168	2.266	4.5	TM	
100	TM	1,2-DCB	1.214	1.208	0.47	TM	
101	TML	Hexachloroethane	0.3085	0.3225	4.5	TML	12
102	TML	1,2-Dibromo-3-chloropropane	0.0698	0.0698	0.05	TML	16
103	TM	1,2,4-Trichlorobenzene	0.9484	0.9171	3.3	TM	
104	TML	Hexachlorobutadiene	0.4430	0.4651	5.0	TML	0.44
105	TM	Naphthalene	1.568	1.456	7.1	TM	
106	TML	1,2,3-Trichlorobenzene	0.7135	0.7125	0.15	TML	2.9
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
		Average			4.1		

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z30.D Vial: 30
Acq On : 08 Dec 21 02:43 Operator: MH
Sample : Ending CCV 10ug/L 12/7/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:40 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	382625	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	342519	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	117488	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	92185	25.51	ppb	0.00
Spiked Amount 25.000			Recovery =	102.036%		
48) 1,2-DCA-D4(S)	5.65	65	74991	26.21	ppb	0.00
Spiked Amount 25.000			Recovery =	104.840%		
69) Toluene-D8(S)	7.98	98	404008	24.49	ppb	0.00
Spiked Amount 25.000			Recovery =	97.952%		
77) 4-Bromofluorobenzene(S)	10.88	95	166930	24.66	ppb	0.00
Spiked Amount 25.000			Recovery =	98.660%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.00	85	22025	10.18	ppb	98
4) Freon 114	1.09	85	19976	13.20	ppb	94
5) Chloromethane	1.13	50	17576	11.84	ppb	97
6) Vinyl chloride	1.20	62	16992	9.18	ppb	99
9) Bromomethane	1.45	94	5824	11.28	ppb	89
10) Chloroethane	1.53	66	2572	9.67	ppb	99
11) Dichlorofluoromethane	1.71	67	39386	11.30	ppb	96
12) Trichlorofluoromethane	1.74	101	34896	10.59	ppb	94
14) Diethyl ether	2.64	74	2048	8.97	ppb	93
15) 1,2 Dichlorotrifluoroethan	2.03	67	25835	7.08	ppb	95
16) Acrolein	2.13	55	10617	105.93	ppb	94
17) Acetone	2.29	43	14604	51.86	ppb	95
18) Freon-113	2.22	101	10306	10.31	ppb	97
19) 1,1-DCE	2.20	61	25666	10.13	ppb	96
21) Acetonitrile	2.57	40	4814	148.55	ppb	93
22) t-Butanol	2.94	59	4288	116.71	ppb	97
23) Methyl Acetate	2.64	43	6623	9.42	ppb	96
24) Iodomethane	2.34	142	14068	10.66	ppb	99
25) Acrylonitrile	3.04	52	3445	9.12	ppb	94
26) Methylene chloride	2.72	49	19818	11.44	ppb	98
27) Carbon disulfide	2.39	76	29288	10.21	ppb	97
28) Methyl t-butyl ether (MtBE	3.07	73	36254	9.44	ppb	98
29) Trans-1,2-DCE	3.04	61	25145	9.91	ppb	97
30) Hexane	4.31	56	37708	9.74	ppb #	100
31) Diisopropyl Ether	3.79	45	35198	10.13	ppb	89
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	2208	12.03	ppb	97
33) 1,1-DCA	3.61	63	34264	10.40	ppb	98

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z30.D Vial: 30
Acq On : 08 Dec 21 02:43 Operator: MH
Sample : Ending CCV 10ug/L 12/7/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:40 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34) Vinyl Acetate	3.78	43	21801	7.90	ppb	#	89
35) Ethyl tert Butyl Ether	4.36	59	37499	9.82	ppb		96
36) MEK (2-Butanone)	4.61	72	6700	46.57	ppb		88
37) Cis-1,2-DCE	4.52	61	29200	10.08	ppb		98
38) 2,2-Dichloropropane	4.49	77	27664	9.27	ppb		98
39) 2-Methylpentane	2.74	42	13695	9.81	ppb		93
40) 3-Methylpentane	3.04	57	34707	9.50	ppb		93
41) Chloroform	5.02	83	37923	10.38	ppb		99
42) Bromochloromethane	4.85	49	11867	10.23	ppb		92
44) 1,1,1-TCA	5.21	97	35098	10.80	ppb		99
45) Cyclohexane	5.25	56	31540	10.38	ppb		98
46) 1,1-Dichloropropene	5.44	75	27398	10.16	ppb		95
47) 2,2,4-Trimethylpentane	5.84	57	59110	9.62	ppb		99
49) Carbon Tetrachloride	5.41	117	30416	10.90	ppb		98
50) Tert Amyl Methyl Ether	5.92	73	39781	9.28	ppb		95
51) Methylcyclopentane	4.31	56	37708	9.74	ppb		91
52) 1,2-DCA	5.75	62	20516	9.77	ppb		100
53) Benzene	5.70	78	88829	9.79	ppb		96
54) TCE	6.54	130	29088	10.41	ppb		95
55) 2-Pentanone	6.84	43	76225	114.73	ppb		98
56) 1,2-Dichloropropane	6.81	63	20225	10.18	ppb		99
57) Bromodichloromethane	7.17	83	24136	10.03	ppb		95
58) Methyl Cyclohexane	6.74	83	38851	10.03	ppb		98
59) Dibromomethane	6.95	174	14428	9.75	ppb		97
60) MIBK (methyl isobutyl ket	7.92	43	49945	49.42	ppb		99
61) 1-Bromo-2-chloroethane	7.50	144	3222	9.41	ppb		98
62) 2-Chloroethyl vinyl ether	7.57	43	25546	46.23	ppb		97
63) Cis-1,3-Dichloropropene	7.70	75	29927	9.53	ppb		97
64) Toluene	8.05	91	109308	9.86	ppb		99
65) Trans-1,3-Dichloropropene	8.35	75	24355	9.35	ppb		98
66) 1,1,2-TCA	8.54	97	16741	9.39	ppb		98
67) 2-Hexanone	8.86	58	22555	50.03	ppb		94
70) 1,2-EDB	9.06	107	15497	8.77	ppb		91
71) Tetrachloroethene	8.66	166	31172	9.90	ppb		97
72) 1-Chlorohexane	9.62	91	38153	10.41	ppb		97
73) 1,1,1,2-Tetrachloroethane	9.72	131	20742	9.09	ppb		98
74) m&p-Xylene	9.88	91	196547	20.44	ppb		99
75) o-Xylene	10.31	91	97399	9.98	ppb		100
76) Styrene	10.33	104	69270	9.53	ppb		98
78) 1,3-Dichloropropane	8.71	76	28802	9.66	ppb		97
79) Dibromochloromethane	8.96	129	16778	8.72	ppb		99
80) Chlorobenzene	9.62	112	75477	9.90	ppb		97

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z30.D Vial: 30
Acq On : 08 Dec 21 02:43 Operator: MH
Sample : Ending CCV 10ug/L 12/7/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:40 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81)	Ethylbenzene	9.88	91	196547	10.21	ppb	99
82)	Bromoform	10.52	173	9278	8.10	ppb	97
84)	Isopropylbenzene	10.73	105	134819	10.48	ppb	99
85)	1,1,2,2-Tetrachloroethane	11.07	83	16711	8.41	ppb	100
86)	1,2,3-Trichloropropane	11.10	110	6090	8.80	ppb	95
87)	t-1,4-Dichloro-2-Butene	11.13	53	4062	8.41	ppb	91
88)	Bromobenzene	11.03	77	43179	10.04	ppb	93
89)	n-Propylbenzene	11.18	91	155176	10.16	ppb	99
90)	4-Ethyltoluene	11.30	105	133167	10.24	ppb	98
91)	2-Chlorotoluene	11.37	91	101424	10.15	ppb	99
92)	1,3,5-Trimethylbenzene	11.37	105	109018	10.38	ppb	99
93)	4-Chlorotoluene	11.37	91	101424	10.09	ppb	99
94)	Tert-Butylbenzene	11.73	119	101494	10.13	ppb	95
95)	1,2,4-Trimethylbenzene	11.78	105	102800	10.31	ppb	95
96)	Sec-Butylbenzene	11.96	105	148987	10.47	ppb	100
97)	p-Isopropyltoluene	11.73	119	101494	10.13	ppb	97
98)	Benzyl Chloride	12.33	91	29002	6.84	ppb	98
99)	1,3-DCB	12.07	146	62526	9.88	ppb	98
100)	1,4-DCB	12.17	146	63585	9.79	ppb	99
101)	n-Butylbenzene	12.57	91	106477	10.45	ppb	98
102)	1,2-DCB	12.57	146	56789	9.95	ppb	97
103)	Hexachloroethane	12.84	201	15155	8.76	ppb	95
104)	1,2-Dibromo-3-chloropropan	13.43	157	3281	8.42	ppb	96
105)	1,2,4-Trichlorobenzene	13.65	180	43100	9.67	ppb	96
106)	Hexachlorobutadiene	14.52	225	21856	10.04	ppb	98
107)	Naphthalene	14.60	128	68413	9.29	ppb	100
108)	1,2,3-Trichlorobenzene	14.86	180	33482	9.71	ppb	98

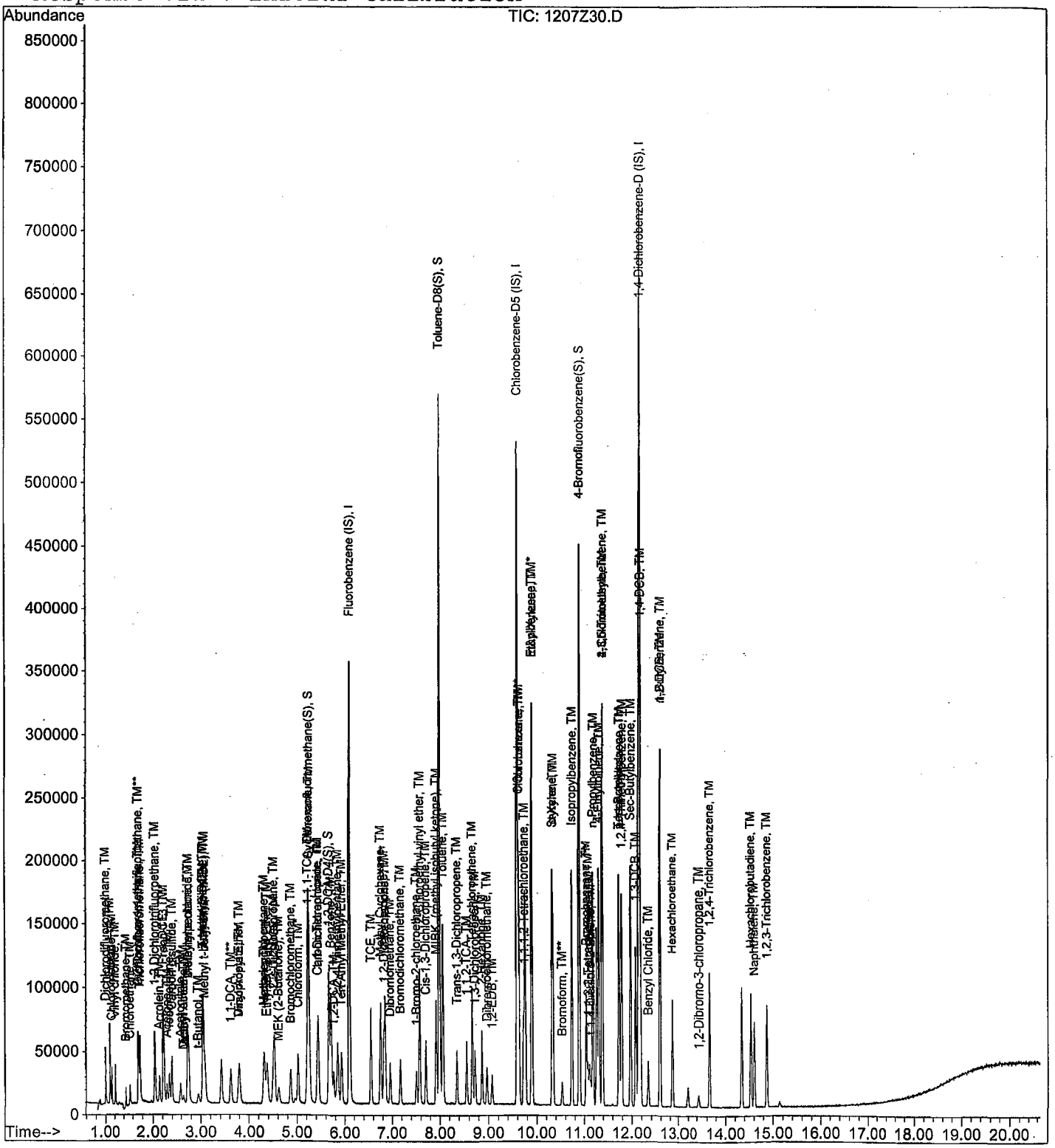
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z30.D Vial: 30
Acq On : 08 Dec 21 02:43 Operator: MH
Sample : Ending CCV 10ug/L 12/7/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:40 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z22.D Vial: 22
Acq On : 07 Dec 21 23:31 Operator: MH
Sample : BA47127W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:29 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	349672	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	331942	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	108368	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	90185	27.26	ppb	0.00
Spiked Amount 25.000			Recovery =	109.056%		
48) 1,2-DCA-D4(S)	5.65	65	73452	28.09	ppb	0.00
Spiked Amount 25.000			Recovery =	112.368%		
69) Toluene-D8(S)	7.98	98	396976	24.81	ppb	0.00
Spiked Amount 25.000			Recovery =	99.224%		
77) 4-Bromofluorobenzene(S)	10.89	95	162049	24.70	ppb	0.00
Spiked Amount 25.000			Recovery =	98.816%		

Target Compounds Qvalue

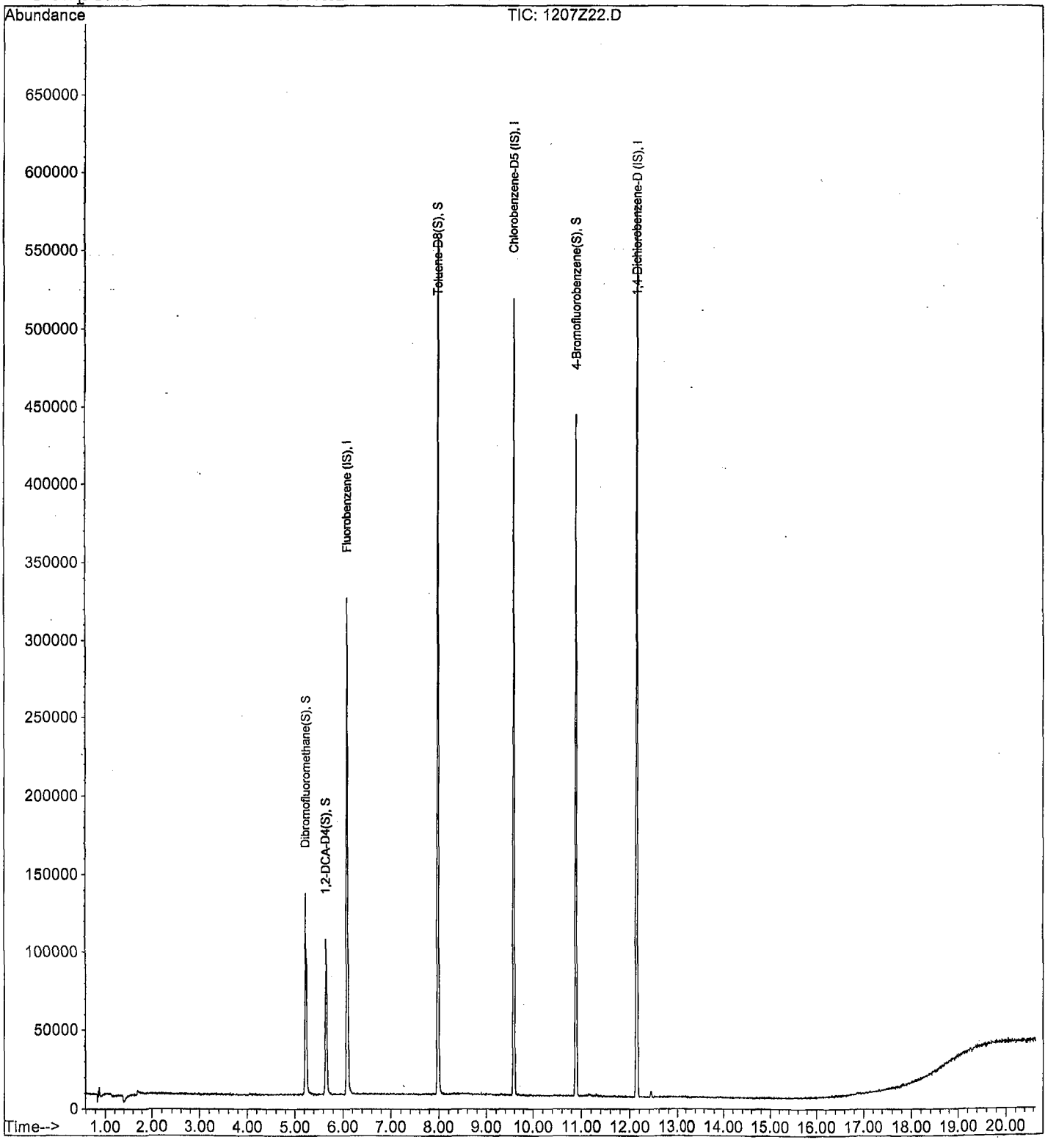
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z22.D Vial: 22
Acq On : 07 Dec 21 23:31 Operator: MH
Sample : BA47127W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:29 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z23.D Vial: 23
Acq On : 07 Dec 21 23:55 Operator: MH
Sample : BA47128W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:30 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	340943	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	324594	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	114528	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	90253	27.97	ppb	0.00
Spiked Amount 25.000			Recovery = 111.868%			
48) 1,2-DCA-D4(S)	5.65	65	72536	28.45	ppb	0.00
Spiked Amount 25.000			Recovery = 113.808%			
69) Toluene-D8(S)	7.98	98	394674	25.19	ppb	0.00
Spiked Amount 25.000			Recovery = 100.776%			
77) 4-Bromofluorobenzene(S)	10.89	95	163266	25.40	ppb	0.00
Spiked Amount 25.000			Recovery = 101.596%			

Target Compounds Qvalue

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

Quantitation Report

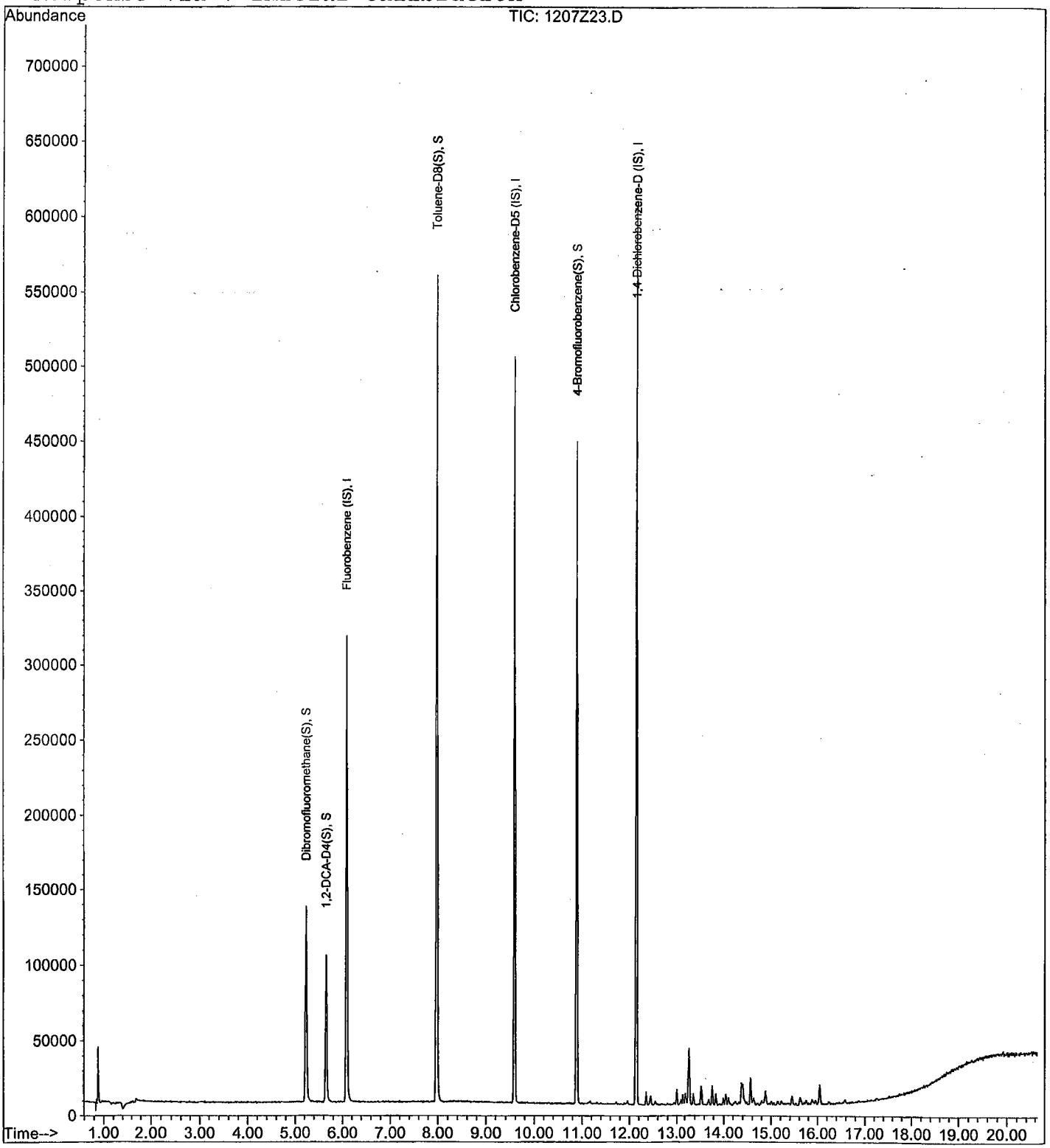
Data File : M:\ZEUS\DATA\211206\1207Z23.D
Acq On : 07 Dec 21 23:55
Sample : BA47128W02
Misc :

Vial: 23
Operator: MH
Inst : Zeus
Multiplr: 1.00

Quant Time: Dec 8 10:30 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z24.D Vial: 24
Acq On : 08 Dec 21 00:18 Operator: MH
Sample : BA47131W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:32 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	336633	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	321483	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	108368	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	88415	27.75	ppb	0.00
Spiked Amount 25.000			Recovery = 111.012%			
48) 1,2-DCA-D4(S)	5.65	65	70727	28.10	ppb	0.00
Spiked Amount 25.000			Recovery = 112.388%			
69) Toluene-D8(S)	7.98	98	387944	25.02	ppb	0.00
Spiked Amount 25.000			Recovery = 100.064%			
77) 4-Bromofluorobenzene(S)	10.89	95	157092	24.73	ppb	0.00
Spiked Amount 25.000			Recovery = 98.900%			

Target Compounds Qvalue

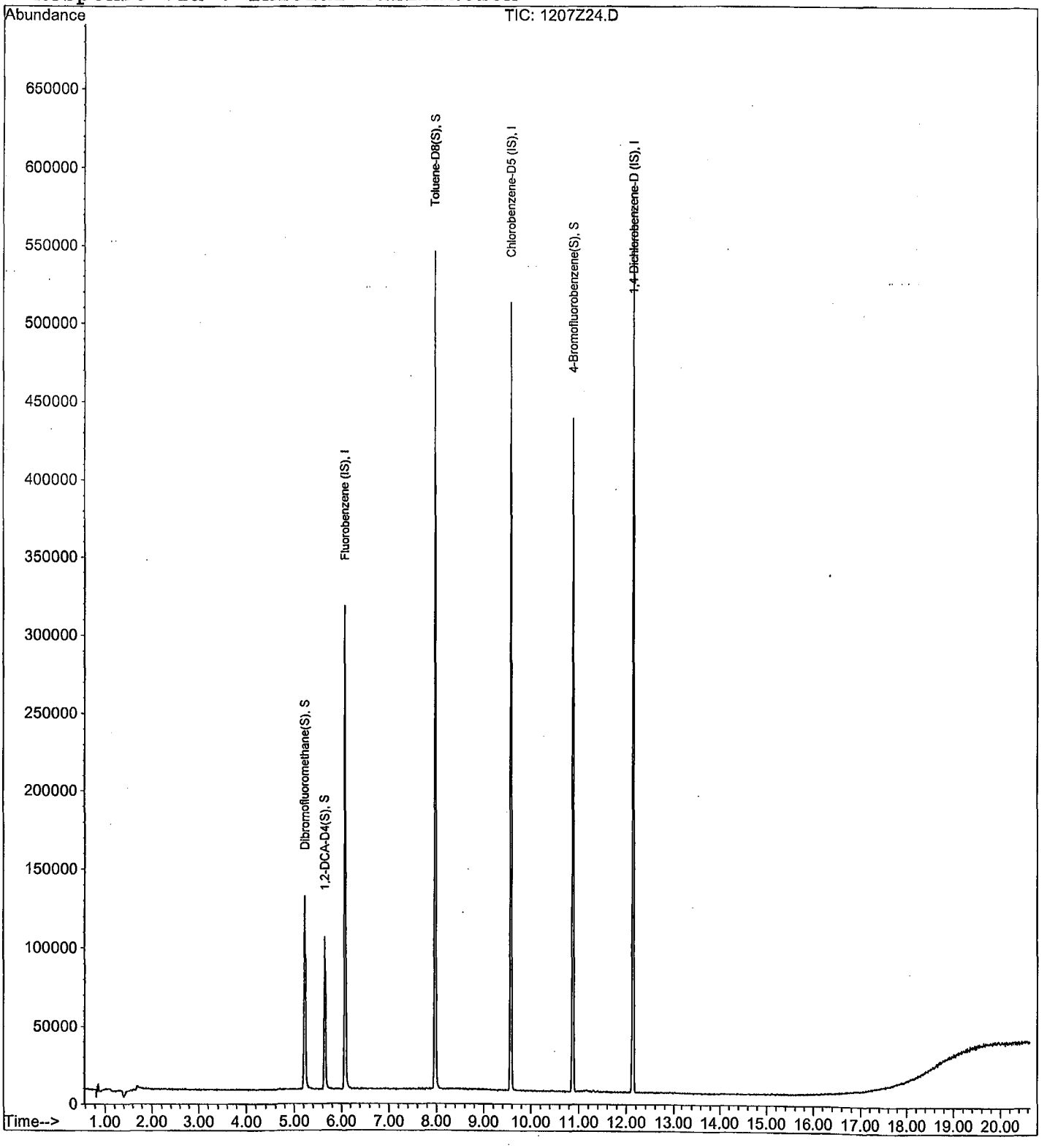
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z24.D Vial: 24
Acq On : 08 Dec 21 00:18 Operator: MH
Sample : BA47131W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:32 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z25.D Vial: 25
Acq On : 08 Dec 21 00:42 Operator: MH
Sample : BA47132W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:33 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	343342	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	327951	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	109872	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	90831	27.95	ppb	0.00
Spiked Amount 25.000			Recovery =	111.796%		
48) 1,2-DCA-D4(S)	5.65	65	74611	29.06	ppb	0.00
Spiked Amount 25.000			Recovery =	116.244%		
69) Toluene-D8(S)	7.98	98	395371	24.99	ppb	0.00
Spiked Amount 25.000			Recovery =	99.976%		
77) 4-Bromofluorobenzene(S)	10.88	95	168561	25.92	ppb	0.00
Spiked Amount 25.000			Recovery =	103.664%		

Target Compounds Qvalue

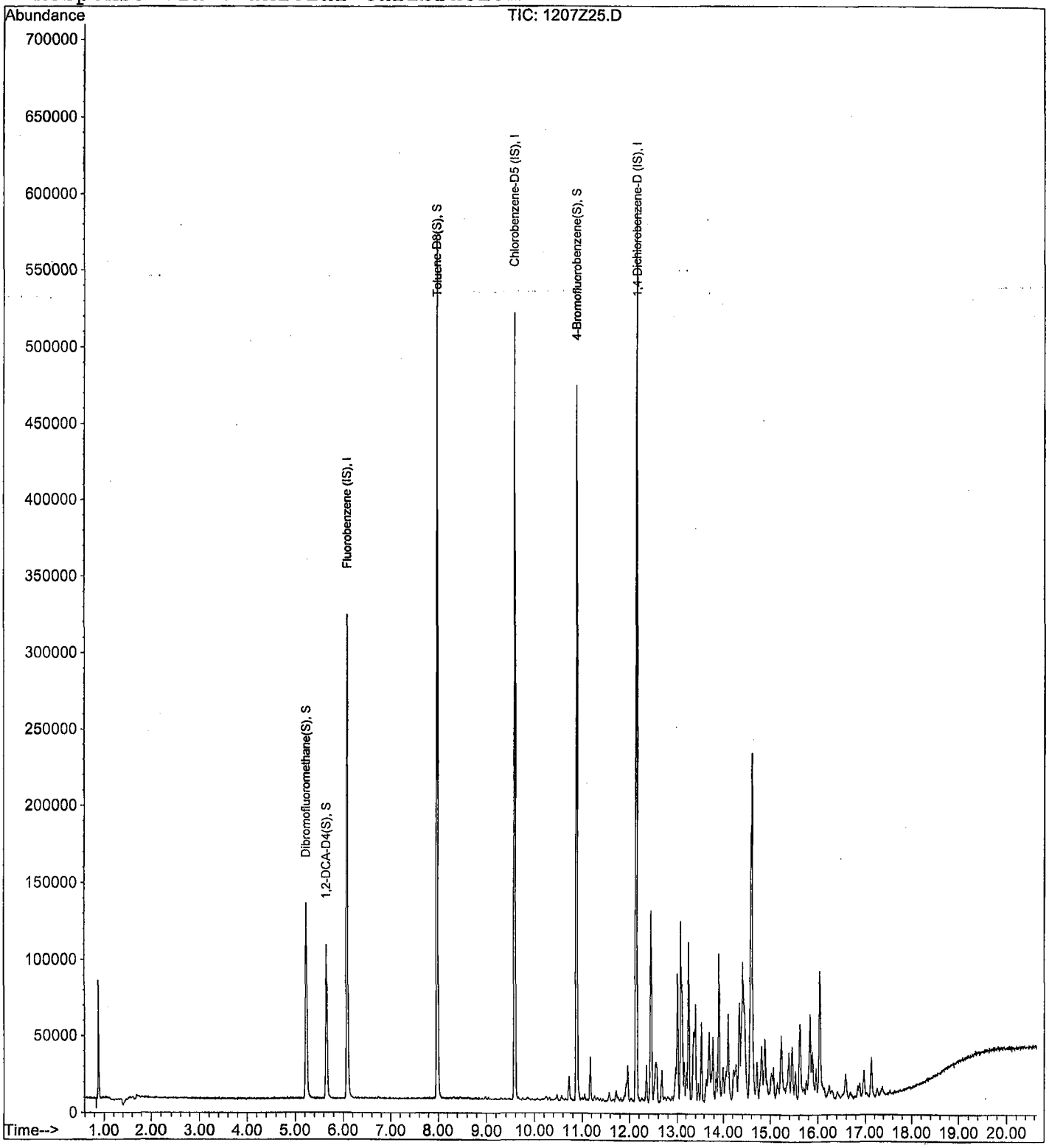
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z25.D Vial: 25
Acq On : 08 Dec 21 00:42 Operator: MH
Sample : BA47132W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:33 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z26.D Vial: 26
Acq On : 08 Dec 21 01:07 Operator: MH
Sample : BA47133W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:35 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	355797	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	331891	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	114432	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	90450	26.88	ppb	0.00
Spiked Amount 25.000			Recovery = 107.528%			
48) 1,2-DCA-D4(S)	5.65	65	75835	28.50	ppb	0.00
Spiked Amount 25.000			Recovery = 114.016%			
69) Toluene-D8(S)	7.98	98	403960	25.22	ppb	0.00
Spiked Amount 25.000			Recovery = 100.872%			
77) 4-Bromofluorobenzene(S)	10.88	95	166382	25.32	ppb	0.00
Spiked Amount 25.000			Recovery = 101.284%			

Target Compounds Qvalue

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

Quantitation Report

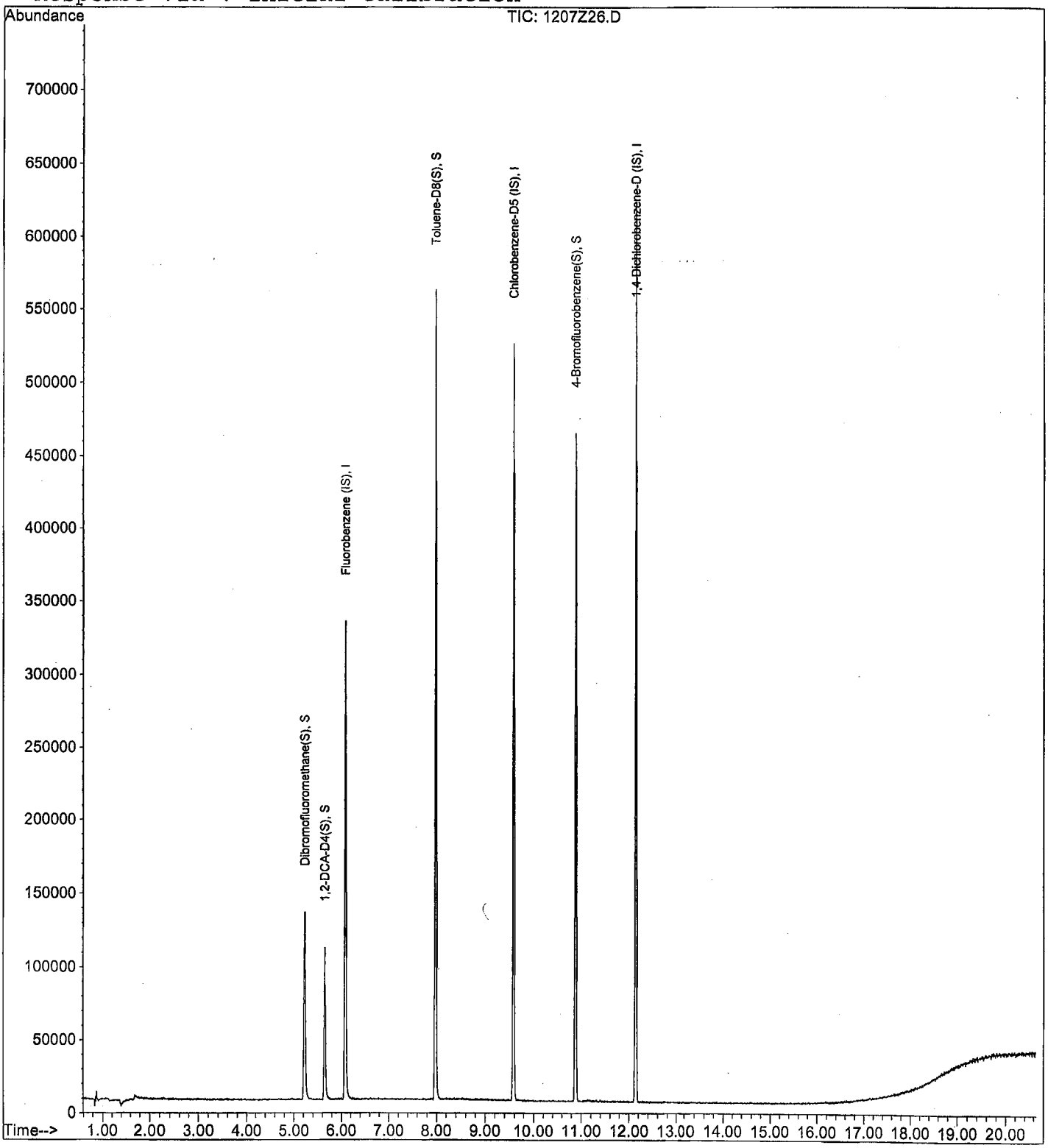
Data File : M:\ZEUS\DATA\211206\1207Z26.D
Acq On : 08 Dec 21 01:07
Sample : BA47133W02
Misc :

Vial: 26
Operator: MH
Inst : Zeus
Multiplr: 1.00

Quant Time: Dec 8 10:35 2021

Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z27.D Vial: 27
Acq On : 08 Dec 21 01:31 Operator: MH
Sample : BA47134W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:36 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	350501	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	329377	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.15	152	113520	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	88120	26.59	ppb	0.00
Spiked Amount 25.000			Recovery =	106.368%		
48) 1,2-DCA-D4(S)	5.65	65	72314	27.59	ppb	0.00
Spiked Amount 25.000			Recovery =	110.364%		
69) Toluene-D8(S)	7.98	98	389171	24.53	ppb	0.00
Spiked Amount 25.000			Recovery =	98.108%		
77) 4-Bromofluorobenzene(S)	10.89	95	159854	24.57	ppb	0.00
Spiked Amount 25.000			Recovery =	98.276%		

Target Compounds Qvalue

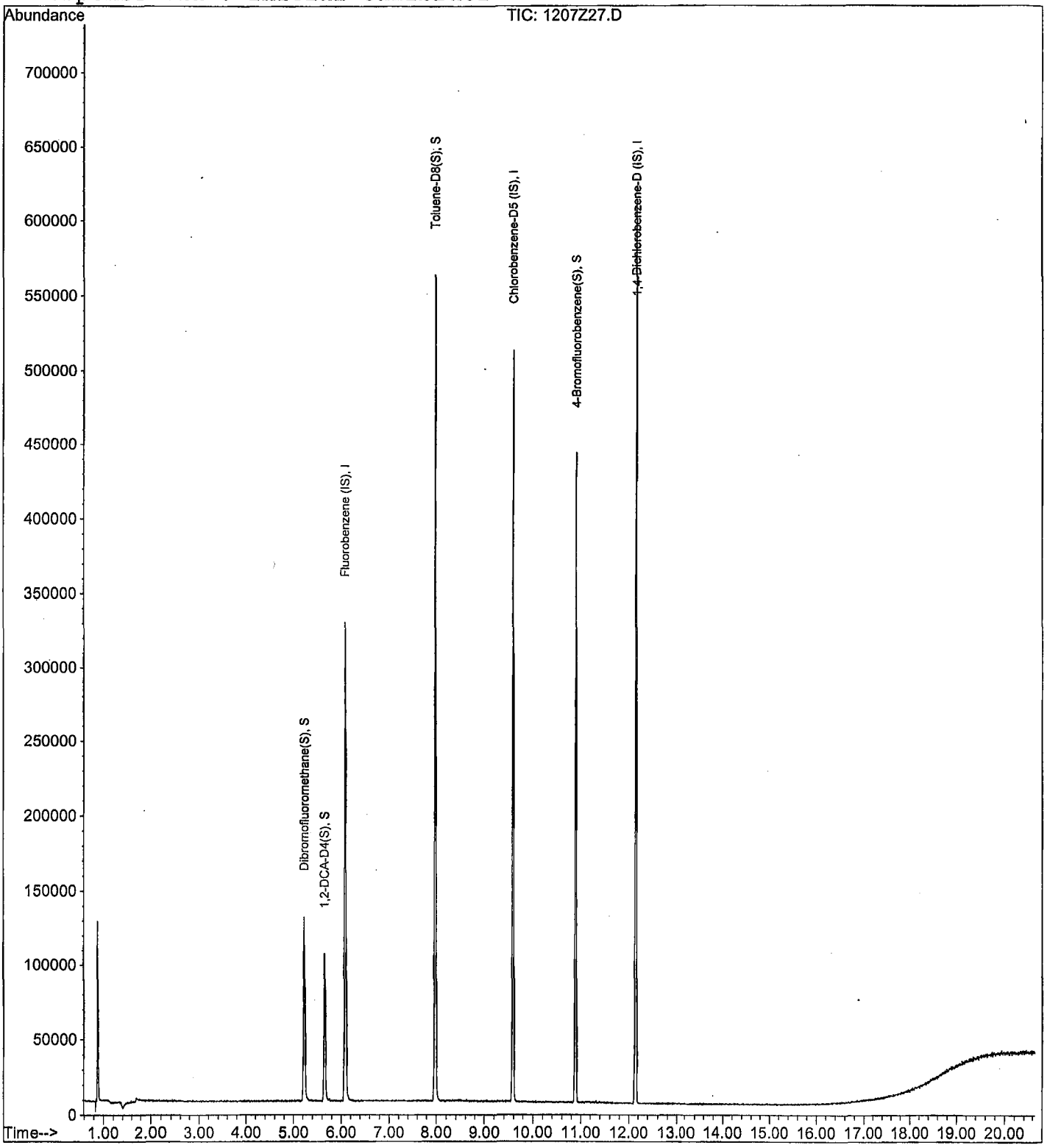
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z27.D Vial: 27
Acq On : 08 Dec 21 01:31 Operator: MH
Sample : BA47134W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:36 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z08.D Vial: 8
Acq On : 07 Dec 21 17:55 Operator: MH
Sample : 211207A BLK Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:12 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	384177	25.00	ppb	0.00
68) Chlorobenzene-D5 (IS)	9.58	117	351591	25.00	ppb	0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	118712	25.00	ppb	0.00
System Monitoring Compounds						
43) Dibromofluoromethane(S)	5.23	111	95522	26.31	ppb	0.00
Spiked Amount 25.000			Recovery =	105.224%		
48) 1,2-DCA-D4(S)	5.65	65	80692	28.09	ppb	0.00
Spiked Amount 25.000			Recovery =	112.356%		
69) Toluene-D8(S)	7.98	98	424721	25.04	ppb	0.00
Spiked Amount 25.000			Recovery =	100.164%		
77) 4-Bromofluorobenzene(S)	10.88	95	176479	25.35	ppb	0.00
Spiked Amount 25.000			Recovery =	101.400%		

Target Compounds Qvalue

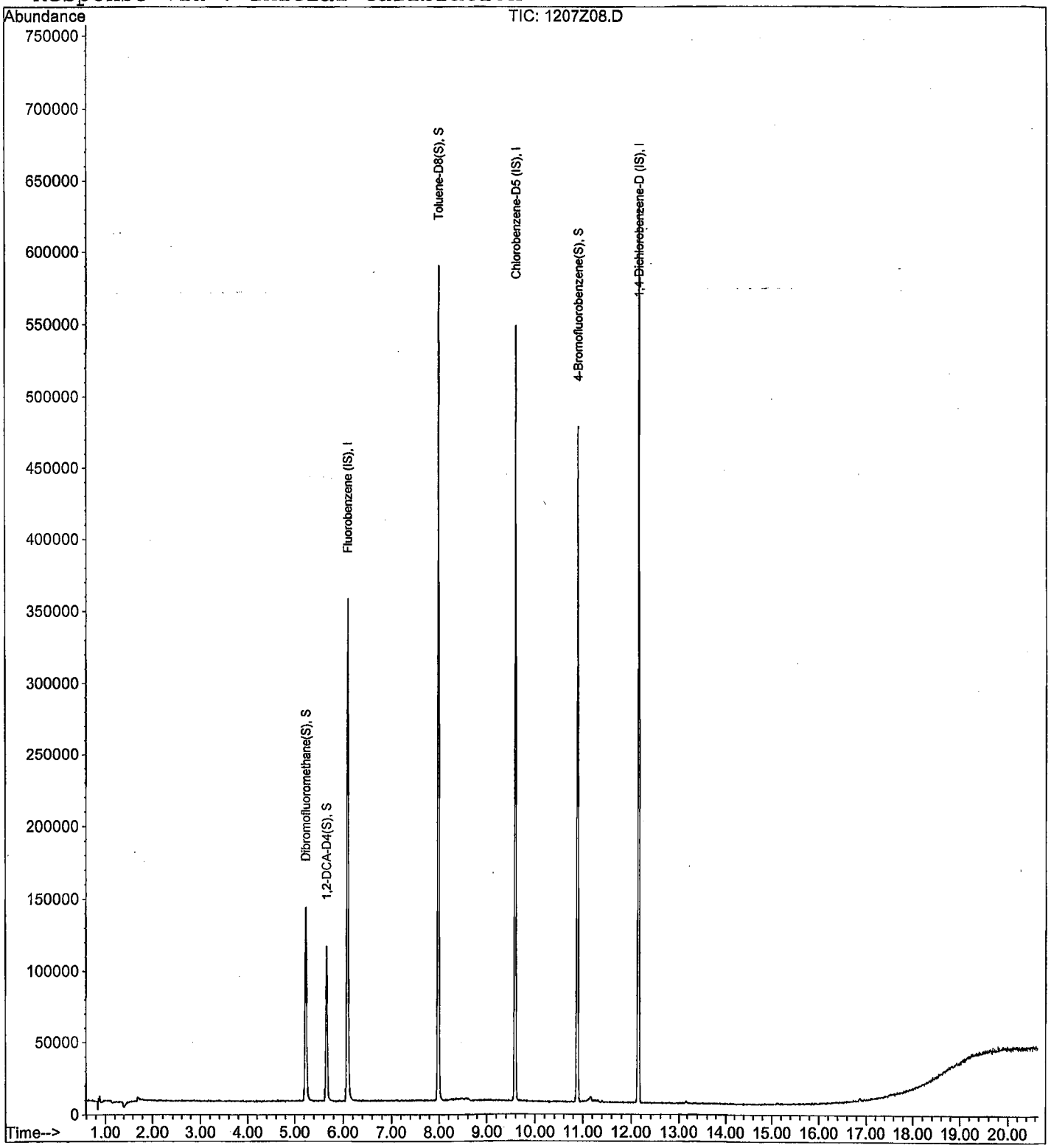
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z08.D Vial: 8
Acq On : 07 Dec 21 17:55 Operator: MH
Sample : 211207A BLK Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 10:12 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z03.D Vial: 3
Acq On : 07 Dec 21 15:54 Operator: MH
Sample : 211207A LCS 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	424705	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	9.58	117	368999	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	123640	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	5.23	111	99579	24.84	ppb		0.00
Spiked Amount 25.000			Recovery = 99.364%				
48) 1,2-DCA-D4(S)	5.65	65	86795	27.33	ppb		0.00
Spiked Amount 25.000			Recovery = 109.320%				
69) Toluene-D8(S)	7.98	98	455151	25.54	ppb		0.00
Spiked Amount 25.000			Recovery = 102.140%				
77) 4-Bromofluorobenzene(S)	10.89	95	187665	25.66	ppb		0.00
Spiked Amount 25.000			Recovery = 102.648%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.00	85	21976	9.15	ppb		99
4) Freon 114	1.09	85	17824	10.47	ppb		97
5) Chloromethane	1.13	50	15740	9.38	ppb		99
6) Vinyl chloride	1.21	62	17673	8.60	ppb		97
9) Bromomethane	1.45	94	6047	10.38	ppb		93
10) Chloroethane	1.53	66	2444	7.91	ppb		91
11) Dichlorofluoromethane	1.71	67	36308	9.29	ppb		100
12) Trichlorofluoromethane	1.74	101	34825	9.52	ppb		99
14) Diethyl ether	2.64	74	2659	10.39	ppb		98
15) 1,2 Dichlorotrifluoroethan	2.04	67	25930	6.19	ppb		97
16) Acrolein	2.13	55	14295	128.50	ppb		92
17) Acetone	2.29	43	17643	56.44	ppb		97
18) Freon-113	2.22	101	10692	9.63	ppb		98
19) 1,1-DCE	2.20	61	25978	9.23	ppb		96
21) Acetonitrile	2.57	40	5221	138.11	ppb		97
22) t-Butanol	2.94	59	5463	133.96	ppb		98
23) Methyl Acetate	2.64	43	7797	10.00	ppb		98
24) Iodomethane	2.34	142	12926	8.68	ppb		97
25) Acrylonitrile	3.04	52	4068	9.75	ppb		97
26) Methylene chloride	2.72	49	19984	10.28	ppb		96
27) Carbon disulfide	2.39	76	30312	9.43	ppb		97
28) Methyl t-butyl ether (MtBE	3.07	73	43246	10.14	ppb		97
29) Trans-1,2-DCE	3.04	61	26185	9.30	ppb		93
30) Hexane	4.31	56	44021	10.25	ppb	#	99
31) Diisopropyl Ether	3.79	45	39200	10.16	ppb		99
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	2078	9.97	ppb		95
33) 1,1-DCA	3.61	63	34846	9.53	ppb		98

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

Data File : M:\ZEUS\DATA\211206\1207Z03.D Vial: 3
Acq On : 07 Dec 21 15:54 Operator: MH
Sample : 211207A LCS 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	Vinyl Acetate	3.78	43	30984	10.11	ppb	#	93
35)	Ethyl tert Butyl Ether	4.37	59	43297	10.21	ppb		98
36)	MEK (2-Butanone)	4.61	72	8870	54.29	ppb		88
37)	Cis-1,2-DCE	4.52	61	31004	9.65	ppb		98
38)	2,2-Dichloropropane	4.50	77	33377	10.08	ppb		98
39)	2-Methylpentane	2.74	42	15788	10.19	ppb		98
40)	3-Methylpentane	3.04	57	40718	10.04	ppb		95
41)	Chloroform	5.01	83	38958	9.61	ppb		99
42)	Bromochloromethane	4.85	49	12636	9.81	ppb		93
44)	1,1,1-TCA	5.20	97	36406	10.09	ppb		95
45)	Cyclohexane	5.25	56	33874	10.04	ppb		94
46)	1,1-Dichloropropene	5.44	75	29974	10.01	ppb		94
47)	2,2,4-Trimethylpentane	5.84	57	67034	9.83	ppb		99
49)	Carbon Tetrachloride	5.42	117	31381	10.13	ppb		100
50)	Tert Amyl Methyl Ether	5.92	73	46539	9.78	ppb		99
51)	Methylcyclopentane	4.31	56	44021	10.25	ppb		97
52)	1,2-DCA	5.76	62	22578	9.68	ppb		94
53)	Benzene	5.70	78	95557	9.49	ppb		98
54)	TCE	6.55	130	30163	9.73	ppb		98
55)	2-Pentanone	6.84	43	98794	133.97	ppb		99
56)	1,2-Dichloropropane	6.81	63	22295	10.11	ppb		100
57)	Bromodichloromethane	7.17	83	26321	9.86	ppb		96
58)	Methyl Cyclohexane	6.74	83	42237	9.82	ppb		98
59)	Dibromomethane	6.95	174	15739	9.58	ppb		98
60)	MIBK (methyl isobutyl ket	7.91	43	63136	55.71	ppb		98
61)	1-Bromo-2-chloroethane	7.50	144	3690	9.70	ppb		92
62)	2-Chloroethyl vinyl ether	7.57	43	31947	51.55	ppb		92
63)	Cis-1,3-Dichloropropene	7.70	75	34851	10.00	ppb		98
64)	Toluene	8.06	91	115163	9.36	ppb		99
65)	Trans-1,3-Dichloropropene	8.35	75	28996	10.02	ppb		99
66)	1,1,2-TCA	8.54	97	19410	9.80	ppb		97
67)	2-Hexanone	8.86	58	28830	57.03	ppb		99
70)	1,2-EDB	9.06	107	17918	9.38	ppb	#	100
71)	Tetrachloroethene	8.66	166	33369	9.84	ppb		96
72)	1-Chlorohexane	9.62	91	40237	10.19	ppb		97
73)	1,1,1,2-Tetrachloroethane	9.72	131	22776	9.25	ppb		99
74)	m&p-Xylene	9.88	91	207994	20.07	ppb		99
75)	o-Xylene	10.31	91	102754	9.77	ppb		99
76)	Styrene	10.33	104	72773	9.30	ppb		98
78)	1,3-Dichloropropane	8.72	76	32803	10.22	ppb		100
79)	Dibromochloromethane	8.96	129	19137	9.19	ppb		93
80)	Chlorobenzene	9.62	112	78709	9.58	ppb		96

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z03.D Vial: 3
Acq On : 07 Dec 21 15:54 Operator: MH
Sample : 211207A LCS 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81)	Ethylbenzene	9.88	91	207994	10.03	ppb	99
82)	Bromoform	10.53	173	10674	8.55	ppb	93
84)	Isopropylbenzene	10.73	105	141254	10.43	ppb	100
85)	1,1,2,2-Tetrachloroethane	11.07	83	20681	9.77	ppb	97
86)	1,2,3-Trichloropropane	11.10	110	7581	10.32	ppb	98
87)	t-1,4-Dichloro-2-Butene	11.13	53	5067	9.83	ppb	92
88)	Bromobenzene	11.03	77	45326	10.02	ppb	96
89)	n-Propylbenzene	11.18	91	164970	10.26	ppb	99
90)	4-Ethyltoluene	11.30	105	140876	10.29	ppb	99
91)	2-Chlorotoluene	11.38	91	106915	10.16	ppb	99
92)	1,3,5-Trimethylbenzene	11.37	105	115153	10.42	ppb	99
93)	4-Chlorotoluene	11.38	91	106915	10.10	ppb	99
94)	Tert-Butylbenzene	11.72	119	108760	10.31	ppb	97
95)	1,2,4-Trimethylbenzene	11.78	105	110494	10.53	ppb	94
96)	Sec-Butylbenzene	11.96	105	155630	10.40	ppb	100
97)	p-Isopropyltoluene	11.72	119	108760	10.31	ppb	97
98)	Benzyl Chloride	12.33	91	45290	9.64	ppb	98
99)	1,3-DCB	12.07	146	65531	9.84	ppb	98
100)	1,4-DCB	12.17	146	66852	9.78	ppb	98
101)	n-Butylbenzene	12.57	91	115498	10.77	ppb	97
102)	1,2-DCB	12.58	146	59720	9.95	ppb	96
103)	Hexachloroethane	12.85	201	16340	8.93	ppb	93
104)	1,2-Dibromo-3-chloropropan	13.43	157	4028	9.57	ppb	89
105)	1,2,4-Trichlorobenzene	13.65	180	46837	9.99	ppb	98
106)	Hexachlorobutadiene	14.52	225	22493	9.83	ppb	95
107)	Naphthalene	14.60	128	79904	10.31	ppb	99
108)	1,2,3-Trichlorobenzene	14.86	180	35763	9.84	ppb	99

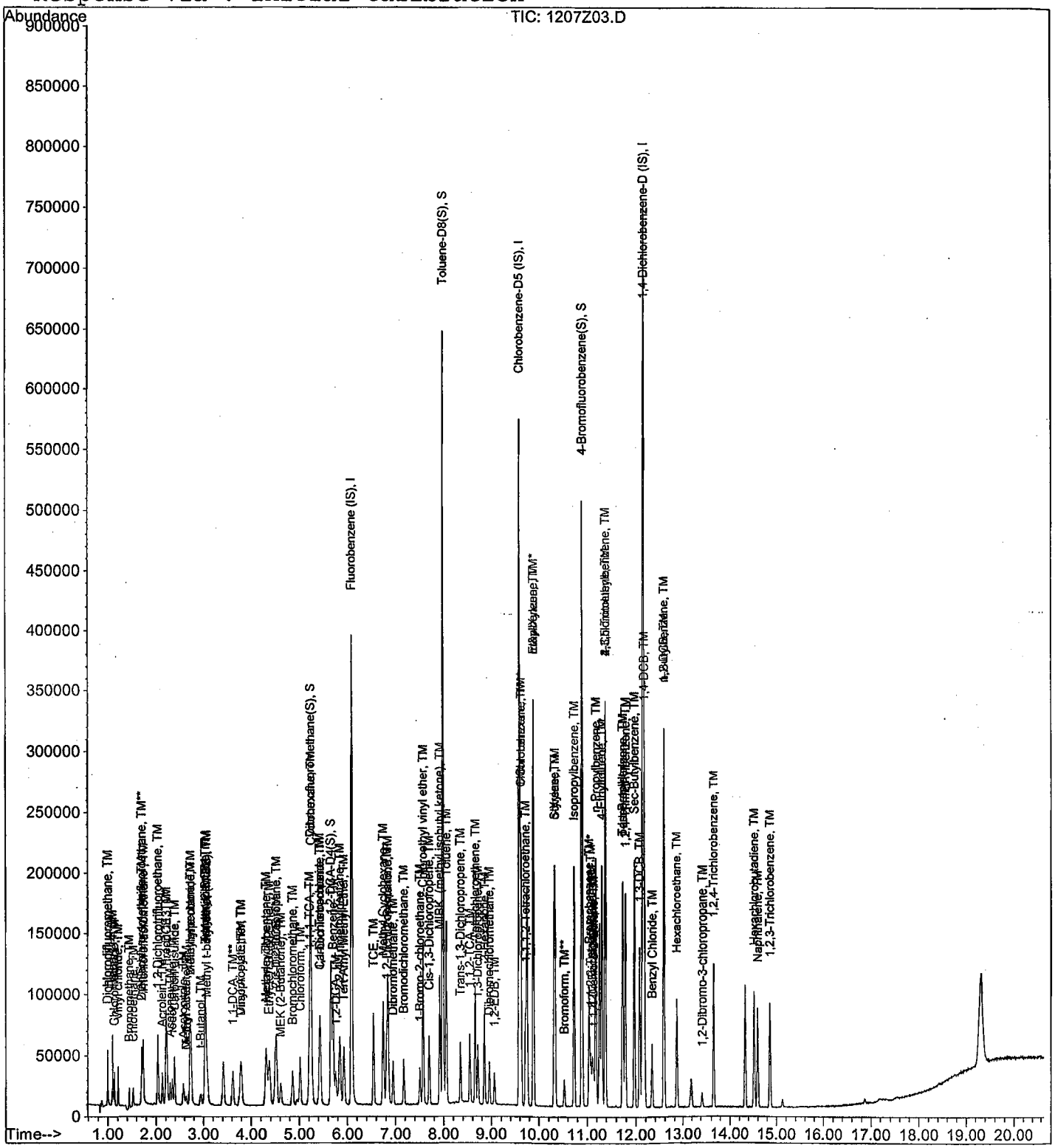
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z03.D Vial: 3
Acq On : 07 Dec 21 15:54 Operator: MH
Sample : 211207A LCS 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z04.D Vial: 4
Acq On : 07 Dec 21 16:19 Operator: MH
Sample : 211207A LCSD 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene (IS)	6.09	96	421428	25.00	ppb		0.00
68) Chlorobenzene-D5 (IS)	9.58	117	365775	25.00	ppb		0.00
83) 1,4-Dichlorobenzene-D (IS)	12.14	152	121584	25.00	ppb		0.00
System Monitoring Compounds							
43) Dibromofluoromethane(S)	5.23	111	98476	24.76	ppb		0.00
Spiked Amount 25.000			Recovery =	99.036%			
48) 1,2-DCA-D4(S)	5.66	65	85919	27.26	ppb		0.00
Spiked Amount 25.000			Recovery =	109.060%			
69) Toluene-D8(S)	7.98	98	450050	25.48	ppb		0.00
Spiked Amount 25.000			Recovery =	101.900%			
77) 4-Bromofluorobenzene(S)	10.88	95	184642	25.48	ppb		0.00
Spiked Amount 25.000			Recovery =	101.936%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.00	85	22541	9.45	ppb		99
4) Freon 114	1.09	85	18776	11.16	ppb		97
5) Chloromethane	1.13	50	16976	10.27	ppb		97
6) Vinyl chloride	1.21	62	17820	8.74	ppb		100
9) Bromomethane	1.45	94	6223	10.86	ppb		85
10) Chloroethane	1.53	66	2579	8.57	ppb		96
11) Dichlorofluoromethane	1.71	67	40413	10.49	ppb		97
12) Trichlorofluoromethane	1.74	101	36245	9.99	ppb		96
14) Diethyl ether	2.64	74	2605	10.27	ppb		94
15) 1,2 Dichlorotrifluoroethan	2.03	67	27435	6.75	ppb		98
16) Acrolein	2.13	55	14622	132.46	ppb		98
17) Acetone	2.29	43	17666	56.95	ppb		93
18) Freon-113	2.22	101	11167	10.14	ppb		95
19) 1,1-DCE	2.20	61	27266	9.77	ppb		98
21) Acetonitrile	2.58	40	5380	157.42	ppb		83
22) t-Butanol	2.94	59	5743	141.92	ppb		92
23) Methyl Acetate	2.64	43	7893	10.20	ppb		92
24) Iodomethane	2.34	142	14094	9.62	ppb		98
25) Acrylonitrile	3.04	52	4304	10.44	ppb		97
26) Methylene chloride	2.72	49	20813	10.85	ppb		96
27) Carbon disulfide	2.39	76	31736	10.02	ppb		99
28) Methyl t-butyl ether (MtBE	3.07	73	44201	10.45	ppb		97
29) Trans-1,2-DCE	3.04	61	26691	9.55	ppb		97
30) Hexane	4.30	56	44262	10.39	ppb	#	100
31) Diisopropyl Ether	3.79	45	40369	10.54	ppb		100
32) 2,2-Dichloro-1,1,1-trifluo	1.71	83	2235	10.93	ppb		91
33) 1,1-DCA	3.61	63	35986	9.91	ppb		99

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z04.D Vial: 4
Acq On : 07 Dec 21 16:19 Operator: MH
Sample : 211207A LCSD 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	Vinyl Acetate	3.77	43	31898	10.49	ppb	#	95
35)	Ethyl tert Butyl Ether	4.37	59	44288	10.53	ppb		95
36)	MEK (2-Butanone)	4.61	72	8934	55.01	ppb		91
37)	Cis-1,2-DCE	4.52	61	31514	9.88	ppb		100
38)	2,2-Dichloropropane	4.50	77	34346	10.45	ppb		95
39)	2-Methylpentane	2.74	42	16636	10.83	ppb		94
40)	3-Methylpentane	3.03	57	41327	10.27	ppb		90
41)	Chloroform	5.01	83	39968	9.93	ppb		95
42)	Bromochloromethane	4.85	49	12835	10.05	ppb		96
44)	1,1,1-TCA	5.20	97	37722	10.54	ppb		97
45)	Cyclohexane	5.25	56	35088	10.48	ppb		98
46)	1,1-Dichloropropene	5.44	75	30631	10.31	ppb		96
47)	2,2,4-Trimethylpentane	5.84	57	69944	10.33	ppb		100
49)	Carbon Tetrachloride	5.42	117	32665	10.63	ppb		95
50)	Tert Amyl Methyl Ether	5.92	73	47912	10.15	ppb		99
51)	Methylcyclopentane	4.30	56	44262	10.39	ppb		98
52)	1,2-DCA	5.76	62	22881	9.89	ppb		99
53)	Benzene	5.70	78	98419	9.85	ppb		98
54)	TCE	6.54	130	31556	10.26	ppb		99
55)	2-Pentanone	6.84	43	100691	137.60	ppb		99
56)	1,2-Dichloropropane	6.81	63	23153	10.58	ppb		98
57)	Bromodichloromethane	7.17	83	27115	10.23	ppb		96
58)	Methyl Cyclohexane	6.74	83	43841	10.27	ppb		98
59)	Dibromomethane	6.95	174	16227	9.97	ppb		99
60)	MIBK (methyl isobutyl ket	7.91	43	63211	56.17	ppb		99
61)	1-Bromo-2-chloroethane	7.51	144	3714	9.84	ppb		94
62)	2-Chloroethyl vinyl ether	7.57	43	32195	52.29	ppb		96
63)	Cis-1,3-Dichloropropene	7.70	75	35768	10.34	ppb		98
64)	Toluene	8.05	91	118389	9.69	ppb		100
65)	Trans-1,3-Dichloropropene	8.34	75	29745	10.36	ppb		95
66)	1,1,2-TCA	8.54	97	19738	10.05	ppb		98
67)	2-Hexanone	8.86	58	28630	57.07	ppb		100
70)	1,2-EDB	9.06	107	18266	9.63	ppb	#	94
71)	Tetrachloroethene	8.65	166	34544	10.28	ppb		99
72)	1-Chlorohexane	9.62	91	41342	10.57	ppb		97
73)	1,1,1,2-Tetrachloroethane	9.72	131	23403	9.57	ppb		97
74)	m&p-Xylene	9.88	91	213028	20.74	ppb		98
75)	o-Xylene	10.31	91	105349	10.10	ppb		96
76)	Styrene	10.33	104	75188	9.68	ppb		97
78)	1,3-Dichloropropane	8.72	76	33557	10.54	ppb		96
79)	Dibromochloromethane	8.96	129	19344	9.35	ppb		100
80)	Chlorobenzene	9.62	112	82300	10.11	ppb		98

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z04.D Vial: 4
Acq On : 07 Dec 21 16:19 Operator: MH
Sample : 211207A LCSD 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Quant Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81)	Ethylbenzene	9.88	91	213028	10.36	ppb	98
82)	Bromoform	10.52	173	11147	8.93	ppb	98
84)	Isopropylbenzene	10.73	105	143254	10.76	ppb	100
85)	1,1,2,2-Tetrachloroethane	11.07	83	20637	9.91	ppb	99
86)	1,2,3-Trichloropropane	11.10	110	7289	10.11	ppb	97
87)	t-1,4-Dichloro-2-Butene	11.13	53	5087	10.03	ppb	89
88)	Bromobenzene	11.03	77	46771	10.51	ppb	97
89)	n-Propylbenzene	11.18	91	167910	10.62	ppb	99
90)	4-Ethyltoluene	11.30	105	143404	10.66	ppb	97
91)	2-Chlorotoluene	11.38	91	109632	10.61	ppb	99
92)	1,3,5-Trimethylbenzene	11.37	105	117213	10.79	ppb	99
93)	4-Chlorotoluene	11.38	91	109632	10.53	ppb	99
94)	Tert-Butylbenzene	11.73	119	109896	10.60	ppb	100
95)	1,2,4-Trimethylbenzene	11.78	105	112259	10.88	ppb	96
96)	Sec-Butylbenzene	11.96	105	159686	10.85	ppb	100
97)	p-Isopropyltoluene	11.73	119	109896	10.60	ppb	99
98)	Benzyl Chloride	12.33	91	45143	9.76	ppb	98
99)	1,3-DCB	12.07	146	67346	10.29	ppb	97
100)	1,4-DCB	12.17	146	68002	10.11	ppb	99
101)	n-Butylbenzene	12.57	91	116903	11.08	ppb	97
102)	1,2-DCB	12.57	146	61747	10.46	ppb	98
103)	Hexachloroethane	12.85	201	16499	9.13	ppb	95
104)	1,2-Dibromo-3-chloropropan	13.43	157	3949	9.55	ppb	89
105)	1,2,4-Trichlorobenzene	13.65	180	47774	10.36	ppb	99
106)	Hexachlorobutadiene	14.52	225	22630	10.05	ppb	99
107)	Naphthalene	14.60	128	79010	10.36	ppb	97
108)	1,2,3-Trichlorobenzene	14.86	180	36229	10.13	ppb	98

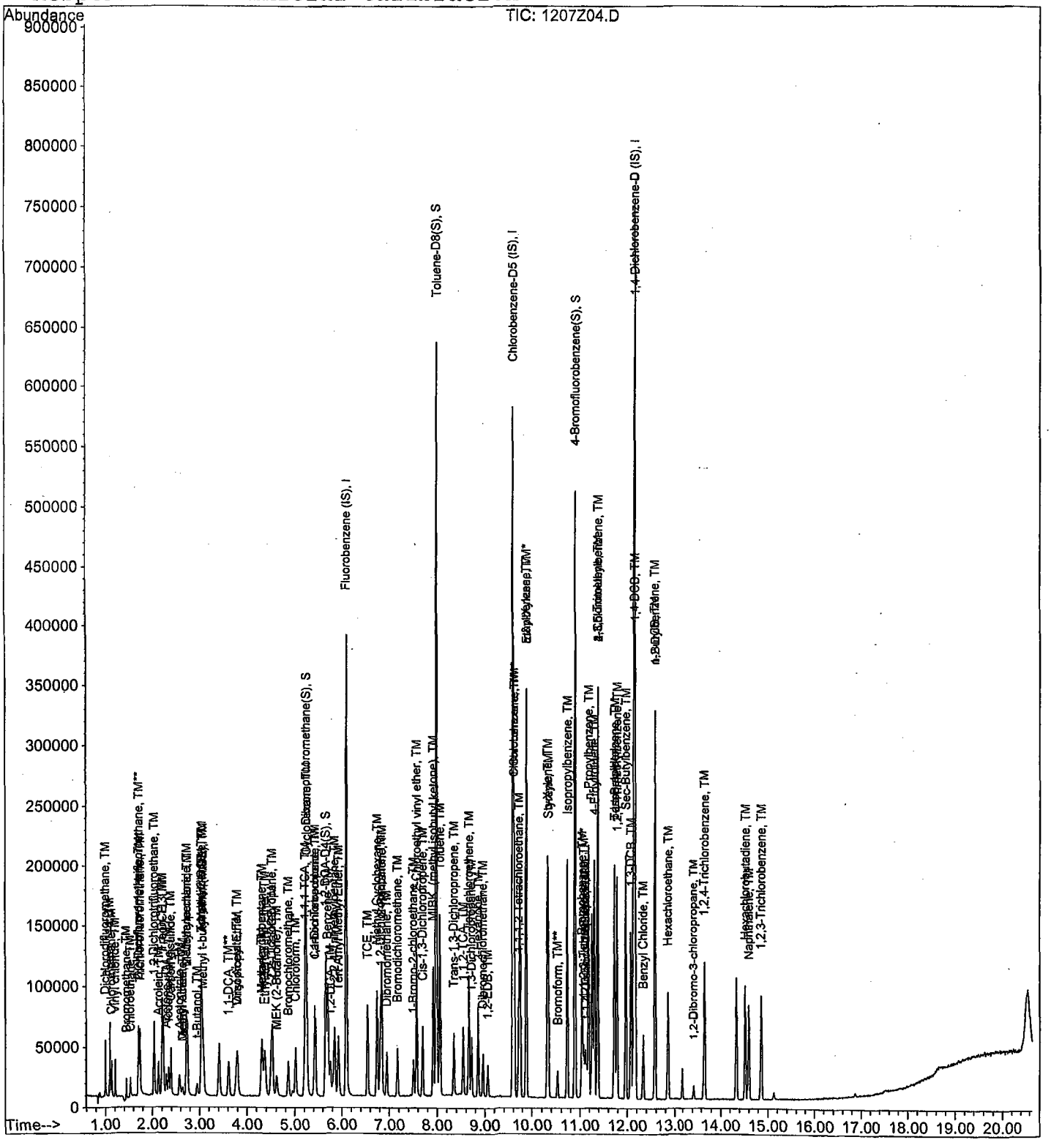
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z04.D Vial: 4
Acq On : 07 Dec 21 16:19 Operator: MH
Sample : 211207A LCSD 10ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 8:39 2021 Quant Results File: Z120621W.RE

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 09:28:24 2021
Response via : Initial Calibration

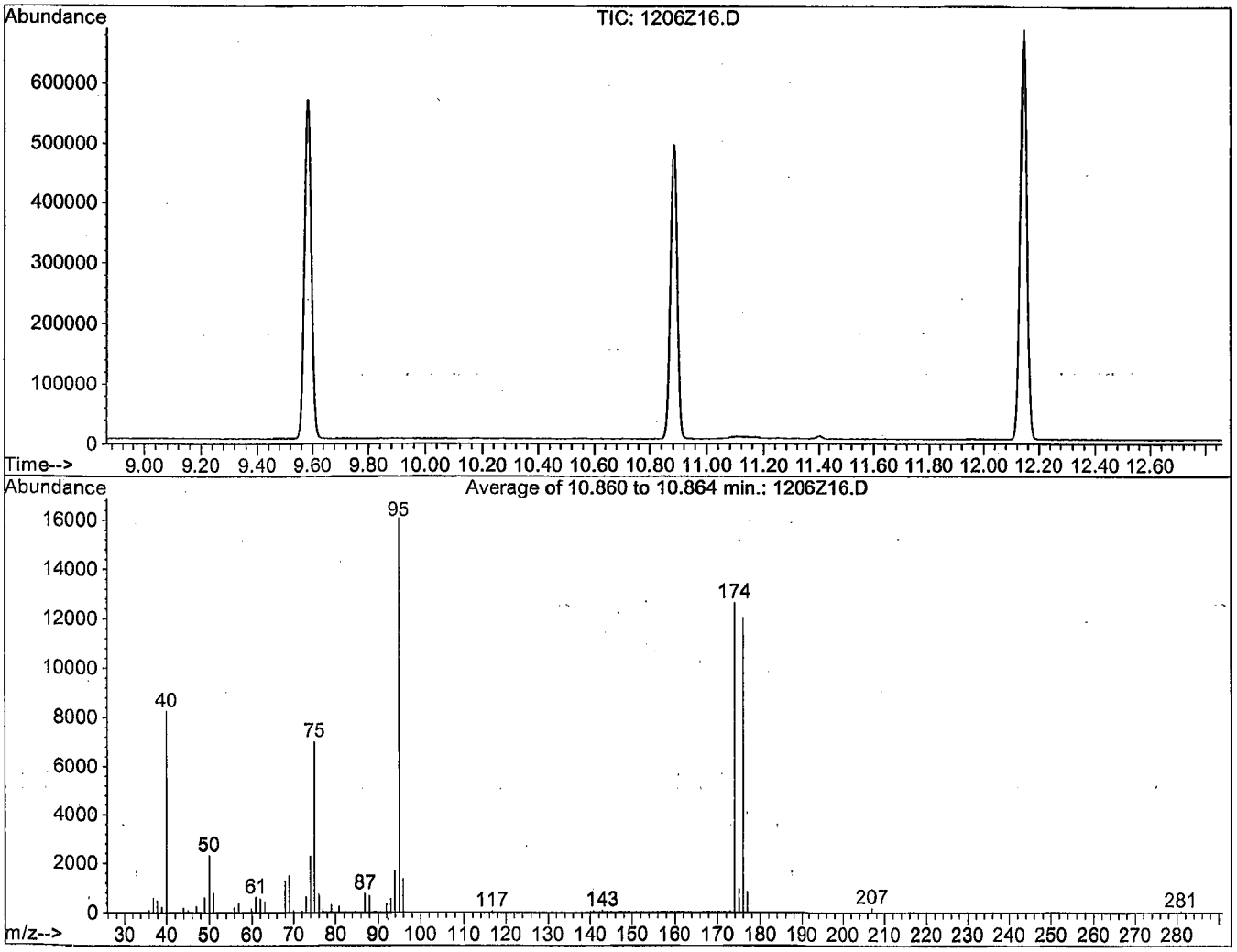


BFB

Data File : M:\ZEUS\DATA\211206\1206Z16.D
Acq On : 06 Dec 21 15:24
Sample : BLK
Misc :

Vial: 1
Operator: MH
Inst : Zeus
Multiplr: 1.00

Method : M:\ZEUS\DATA\211206\Z120621W.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Average of 10.860 to 10.864 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	14	40	14.4	2314	PASS
75	95	30	60	43.6	7006	PASS
95	95	100	100	100.0	16070	PASS
96	95	5	9	8.4	1348	PASS
173	174	0.00	2	0.5	57	PASS
174	95	50	200	78.7	12653	PASS
175	174	5	10	7.5	946	PASS
176	174	95	101	95.2	12047	PASS
177	176	5	9	6.9	831	PASS

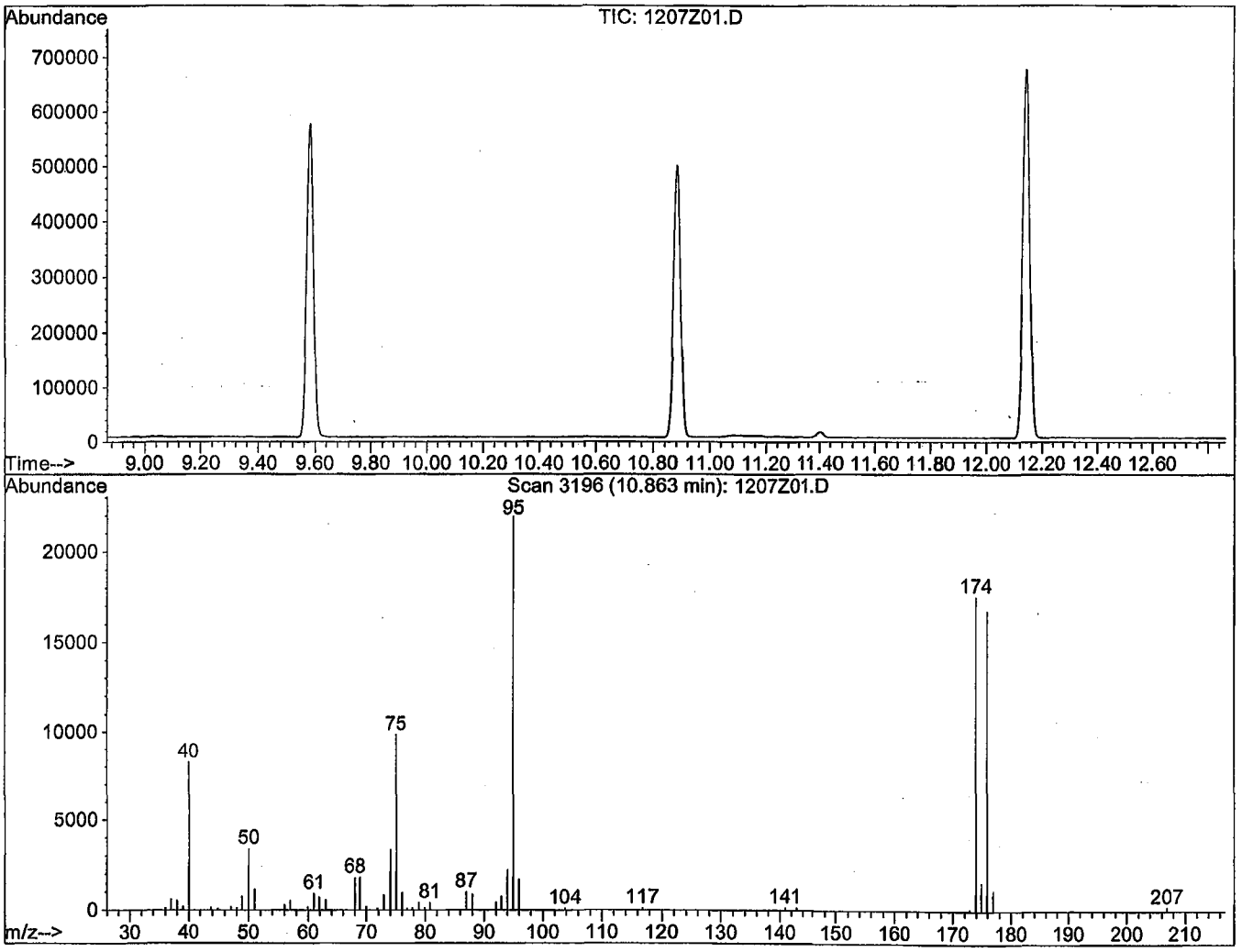
1206Z16.D Z120621W.M Tue Dec 07 10:38:33 2021

BFB

Data File : M:\ZEUS\DATA\211206\1207Z01.D
Acq On : 07 Dec 21 15:06
Sample : 25ug/L BFB STD 10/29/21
Misc :

Vial: 1
Operator: MH
Inst : Zeus
Multiplr: 1.00

Method : M:\ZEUS\DATA\211101\Z110121W.M (RTE Integrator)
Title : METHOD 8260B



Spectrum Information: Scan 3196

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.4	3387	PASS
75	95	30	60	44.9	9845	PASS
95	95	100	100	100.0	21936	PASS
96	95	5	9	7.9	1722	PASS
173	174	0.00	2	0.6	112	PASS
174	95	50	200	79.9	17528	PASS
175	174	5	9	8.8	1551	PASS
176	174	95	101	95.6	16752	PASS
177	176	5	9	6.8	1136	PASS

1207Z01.D Z110121W.M Wed Dec 08 07:48:55 2021

ZEUS 8260 Standard Prep

ZEUS 8260 Water Calibration Curve

0.3ug/L

Prepared By (Initials): CH

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.3ug/L	5	Prepared 11/29/21	1/28/2022	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	5uL			5
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	2.5uL			5
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	2uL			10

0.5ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.5ug/L	5	Prepared 11/29/21	1/28/2022	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	5uL			10
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	5uL			25

1.0ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	1.0ug/L	5	Prepared 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	1
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	20uL			20
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	10uL			20
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	10uL			50

2.0ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	2.0ug/L	5	Prepared 11/29/21	1/28/2022	N/A	20uL	50mL	P&T Water	2
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	30uL			30
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	15uL			30
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	15uL			75

5ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 11/29/21	1/28/2022	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	5uL			5
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	40uL			40
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	20uL			100

10ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	50uL			50
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	25uL			50
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	25uL			125

20ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 11/29/21	1/28/2022	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	20uL			20
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	60uL			60
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	30uL			60
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	30uL			150

40ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 11/29/21	1/28/2022	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	40uL			40
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	80uL			80
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	40uL			80
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	35uL			175

100ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 11/29/21	1/28/2022	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	100uL			100
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	100uL			100
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	50uL			100
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	40uL			200

ZEUS 8260 Water Second Source (SS)

Prepared: 12/6/2021

Expires: 12/15/2021

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 3	Phenova	8260 Water SS	100	Prepared 11/29/21	1/28/2022	N/A	25uL	50mL	P&T Water	50
VOA STD. GASES	Phenova	8260 Water SS	50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 0	Phenova	8260 Water SS	50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 2-CEVE	Absolute	8260 Water SS	50	Prepared 11/29/21	11/29/2021	N/A	50uL			50
VOA STD. 6	Various	8260 Water SS	50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
Voa STD. TBA	Various	8260 Water SS	250	Prepared 11/29/21	12/15/2021	N/A	25uL			250

8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)

Prepared: 12/6/2021

Expires: 12/7/2021

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
VOA STD. 1	Absolute	CCV/ LCS	50	Prepared 11/29/21	1/28/2022	N/A	50uL			50
VOA STD. 2	Phenova	CCV/ LCS	100	Prepared 11/29/21	1/28/2022	N/A	25uL			50
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 11/29/21	12/15/2021	N/A	25uL			250

Injection Log

Directory: M:\ZEUS\DATA\211206\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1206Z15.D	1	25ug/L BFB STD 10/29/21		06 Dec 21 15:09
2	2	1206Z17.D	1	0.3ug/L VOC STD 12/6/21		06 Dec 21 15:48
3	3	1206Z18.D	1	0.5ug/L VOC STD 12/6/21		06 Dec 21 16:12
4	4	1206Z19.D	1	1ug/L VOC STD 12/6/21		06 Dec 21 16:36
5	5	1206Z20.D	1	2ug/L VOC STD 12/6/21		06 Dec 21 17:00
6	6	1206Z21.D	1	5ug/L VOC STD 12/6/21		06 Dec 21 17:24
7	7	1206Z22.D	1	10ug/L VOC STD 12/6/21		06 Dec 21 17:48
8	8	1206Z23.D	1	20ug/L VOC STD 12/6/21		06 Dec 21 18:12
9	9	1206Z24.D	1	40ug/L VOC STD 12/6/21		06 Dec 21 18:36
10	10	1206Z25.D	1	100ug/L VOC STD 12/6/21		06 Dec 21 19:00
11	12	1206Z27.D	1	(SS) 10ug/L VOC STD 12/6/21		06 Dec 21 19:48

Injection Log

Directory: M:\ZEUS\DATA\211206\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1207Z01.D	1	25ug/L BFB STD 10/29/21		07 Dec 21 15:06
2	2	1207Z02.D	1	211207A CCV 10ug/L		07 Dec 21 15:30
3	3	1207Z03.D	1	211207A LCS 10ug/L		07 Dec 21 15:54
4	4	1207Z04.D	1	211207A LCSD 10ug/L		07 Dec 21 16:19
5	8	1207Z08.D	1	211207A BLK		07 Dec 21 17:55
6	22	1207Z22.D	1	BA47127W02		07 Dec 21 23:31
7	23	1207Z23.D	1	BA47128W02		07 Dec 21 23:55
8	24	1207Z24.D	1	BA47131W02		08 Dec 21 00:18
9	25	1207Z25.D	1	BA47132W02		08 Dec 21 00:42
10	26	1207Z26.D	1	BA47133W02		08 Dec 21 01:07
11	27	1207Z27.D	1	BA47134W02		08 Dec 21 01:31
12	30	1207Z30.D	1	Ending CCV 10ug/L 12/7/21		08 Dec 21 02:43

ORGANICS
Calibration Data

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 12/6/2021
Matrix: WATER Instrument: Zeus Initials: MH

			1206Z17.D	1206Z18.D	1206Z19.D	1206Z20.D	1206Z21.D	1206Z22.D	1206Z23.D	1206Z24.D	1206Z25.D							
		Compound	1	2	3	4	5	6	7	8	9		Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)																
2	S	Dibromofluoromethane(S)	0.1704	0.1728	0.2228	0.2153	0.2474	0.2418	0.2463	0.2400	0.2377		0.22	14	S			
3	S	1,2-DCA-D4(S)	0.1414	0.1477	0.1850	0.1824	0.2069	0.2047	0.2085	0.2043	0.2016		0.19	14	S			
4	I	Chlorobenzene-D5 (IS)																
5	SL	Toluene-D8(S)	0.7983	0.8206	1.050	1.051	1.217	1.212	1.270	1.261	1.258		1.1	17	S	1.000		
6	SL	4-Bromofluorobenzene(S)	0.3265	0.3292	0.4231	0.4275	0.4960	0.4958	0.5208	0.5195	0.5192		0.45	18	S	1.000		
7	I	1,4-Dichlorobenzene-D (IS)																
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
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Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z17.D Vial: 2
Acq On : 06 Dec 21 15:48 Operator: MH
Sample : 0.3ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:50:11 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	367811	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	347235	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	119472	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	12538	3.203	ppb	0.00
Spiked Amount 25.000			Recovery =	12.812%		
3) 1,2-DCA-D4(S)	5.65	65	10399	2.698	ppb	0.00
Spiked Amount 25.000			Recovery =	10.792%		
5) Toluene-D8(S)	7.98	98	55440	4.664	ppb	0.00
Spiked Amount 25.000			Recovery =	18.656%		
6) 4-Bromofluorobenzene(S)	10.88	95	22674	6.112	ppb	0.00
Spiked Amount 25.000			Recovery =	24.448%		

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z18.D Vial: 3
Acq On : 06 Dec 21 16:12 Operator: MH
Sample : 0.5ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:50:11 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	366661	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	344388	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	116856	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	12671	3.247	ppb	0.00
Spiked Amount 25.000			Recovery =	12.988%		
3) 1,2-DCA-D4(S)	5.66	65	10832	2.819	ppb	0.00
Spiked Amount 25.000			Recovery =	11.276%		
5) Toluene-D8(S)	7.98	98	56522	4.739	ppb	0.00
Spiked Amount 25.000			Recovery =	18.956%		
6) 4-Bromofluorobenzene(S)	10.89	95	22676	6.136	ppb	0.00
Spiked Amount 25.000			Recovery =	24.544%		

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z19.D Vial: 4
Acq On : 06 Dec 21 16:36 Operator: MH
Sample : 1ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:50:11 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	371997	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	345148	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	117056	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	33149	8.372	ppb	0.00
Spiked Amount 25.000			Recovery =	33.488%		
3) 1,2-DCA-D4(S)	5.66	65	27522	7.060	ppb	0.00
Spiked Amount 25.000			Recovery =	28.240%		
5) Toluene-D8(S)	7.98	98	145028	9.025	ppb	0.00
Spiked Amount 25.000			Recovery =	36.100%		
6) 4-Bromofluorobenzene(S)	10.89	95	58408	10.581	ppb	0.00
Spiked Amount 25.000			Recovery =	42.324%		

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z20.D Vial: 5
Acq On : 06 Dec 21 17:00 Operator: MH
Sample : 2ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:50:11 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	388302	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	355796	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	125880	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	33446	8.092	ppb	0.00
Spiked Amount 25.000			Recovery =	32.368%		
3) 1,2-DCA-D4(S)	5.65	65	28333	6.963	ppb	0.00
Spiked Amount 25.000			Recovery =	27.852%		
5) Toluene-D8(S)	7.98	98	149510	9.025	ppb	0.00
Spiked Amount 25.000			Recovery =	36.100%		
6) 4-Bromofluorobenzene(S)	10.88	95	60845	10.657	ppb	0.00
Spiked Amount 25.000			Recovery =	42.628%		

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z21.D Vial: 6
Acq On : 06 Dec 21 17:24 Operator: MH
Sample : 5ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:50:11 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	398068	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	358845	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	126680	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	98469	23.241	ppb	0.00
Spiked Amount 25.000			Recovery =	92.964%		
3) 1,2-DCA-D4(S)	5.66	65	82342	19.739	ppb	0.00
Spiked Amount 25.000			Recovery =	78.956%		
5) Toluene-D8(S)	7.98	98	436806	22.365	ppb	0.00
Spiked Amount 25.000			Recovery =	89.460%		
6) 4-Bromofluorobenzene(S)	10.88	95	177990	24.631	ppb	0.00
Spiked Amount 25.000			Recovery =	98.524%		

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z22.D Vial: 7
Acq On : 06 Dec 21 17:48 Operator: MH
Sample : 10ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:50:11 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	407844	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.59	117	362313	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	125640	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	98626	22.720	ppb	0.00
Spiked Amount 25.000			Recovery =	90.880%		
3) 1,2-DCA-D4(S)	5.65	65	83490	19.534	ppb	0.00
Spiked Amount 25.000			Recovery =	78.136%		
5) Toluene-D8(S)	7.98	98	439095	22.276	ppb	0.00
Spiked Amount 25.000			Recovery =	89.104%		
6) 4-Bromofluorobenzene(S)	10.88	95	179650	24.624	ppb	0.00
Spiked Amount 25.000			Recovery =	98.496%		

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z23.D Vial: 8
Acq On : 06 Dec 21 18:12 Operator: MH
Sample : 20ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:50:11 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	429143	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	371190	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	127840	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	211390	46.279	ppb	0.00
Spiked Amount 25.000			Recovery = 185.116%			
3) 1,2-DCA-D4(S)	5.65	65	178963	39.794	ppb	0.00
Spiked Amount 25.000			Recovery = 159.176%			
5) Toluene-D8(S)	7.98	98	942563	44.492	ppb	0.00
Spiked Amount 25.000			Recovery = 177.968%			
6) 4-Bromofluorobenzene(S)	10.88	95	386622	48.089	ppb	0.00
Spiked Amount 25.000			Recovery = 192.356%			

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z24.D Vial: 9
Acq On : 06 Dec 21 18:36 Operator: MH
Sample : 40ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:50:11 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	438913	25.000 ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	374368	25.000 ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	124832	25.000 ppb	0.00
System Monitoring Compounds					
2) Dibromofluoromethane(S)	5.23	111	210639	45.088 ppb	0.00
Spiked Amount 25.000			Recovery = 180.352%		
3) 1,2-DCA-D4(S)	5.65	65	179326	38.987 ppb	0.00
Spiked Amount 25.000			Recovery = 155.948%		
5) Toluene-D8(S)	7.98	98	944015	44.196 ppb	0.00
Spiked Amount 25.000			Recovery = 176.784%		
6) 4-Bromofluorobenzene(S)	10.88	95	388955	47.976 ppb	0.00
Spiked Amount 25.000			Recovery = 191.904%		

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z25.D Vial: 10
Acq On : 06 Dec 21 19:00 Operator: MH
Sample : 100ug/L VOC STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:50 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:50:11 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	457473	25.000	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	388410	25.000	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	126216	25.000	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	434953	89.326	ppb	0.00
Spiked Amount 25.000			Recovery = 357.304%			
3) 1,2-DCA-D4(S)	5.66	65	368985	76.966	ppb	0.00
Spiked Amount 25.000			Recovery = 307.864%			
5) Toluene-D8(S)	7.98	98	1954424	86.210	ppb	0.00
Spiked Amount 25.000			Recovery = 344.840%			
6) 4-Bromofluorobenzene(S)	10.88	95	806582	92.592	ppb	0.00
Spiked Amount 25.000			Recovery = 370.368%			

Target Compounds Qvalue

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

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 6
Initial Calibration

Lab Name: APPL, Inc. SDG No:
Case No: Initial Cal. Date: 12/6/2021
Matrix: GAS Instrument: Zeus Initials: MH

		Compound	1206Z36.D 1	1206Z37.D 2	1206Z38.D 3	1206Z39.D 4	1206Z40.D 5	1206Z41.D 6	1206Z42.D 7				Avg	%RSD	Type	r^2	Q	MRF
1	I	Fluorobenzene (IS)																
2	TMHBL	Gasoline C6-C10	16.6	7.019	3.923	1.820	1.243	1.131	1.041				4.7	121	TMHB	1.000		
3	I	Chlorobenzene-D5 (IS)																
4	I	1,4-Dichlorobenzene-D (IS)																
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Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z36.D Vial: 21
Acq On : 06 Dec 21 23:24 Operator: MH
Sample : 20ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:35 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:30:29 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	352283	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	633261	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	542972	25.000	ppb	0.08
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	7.98	TIC	4674724m	24.795	ppb	100

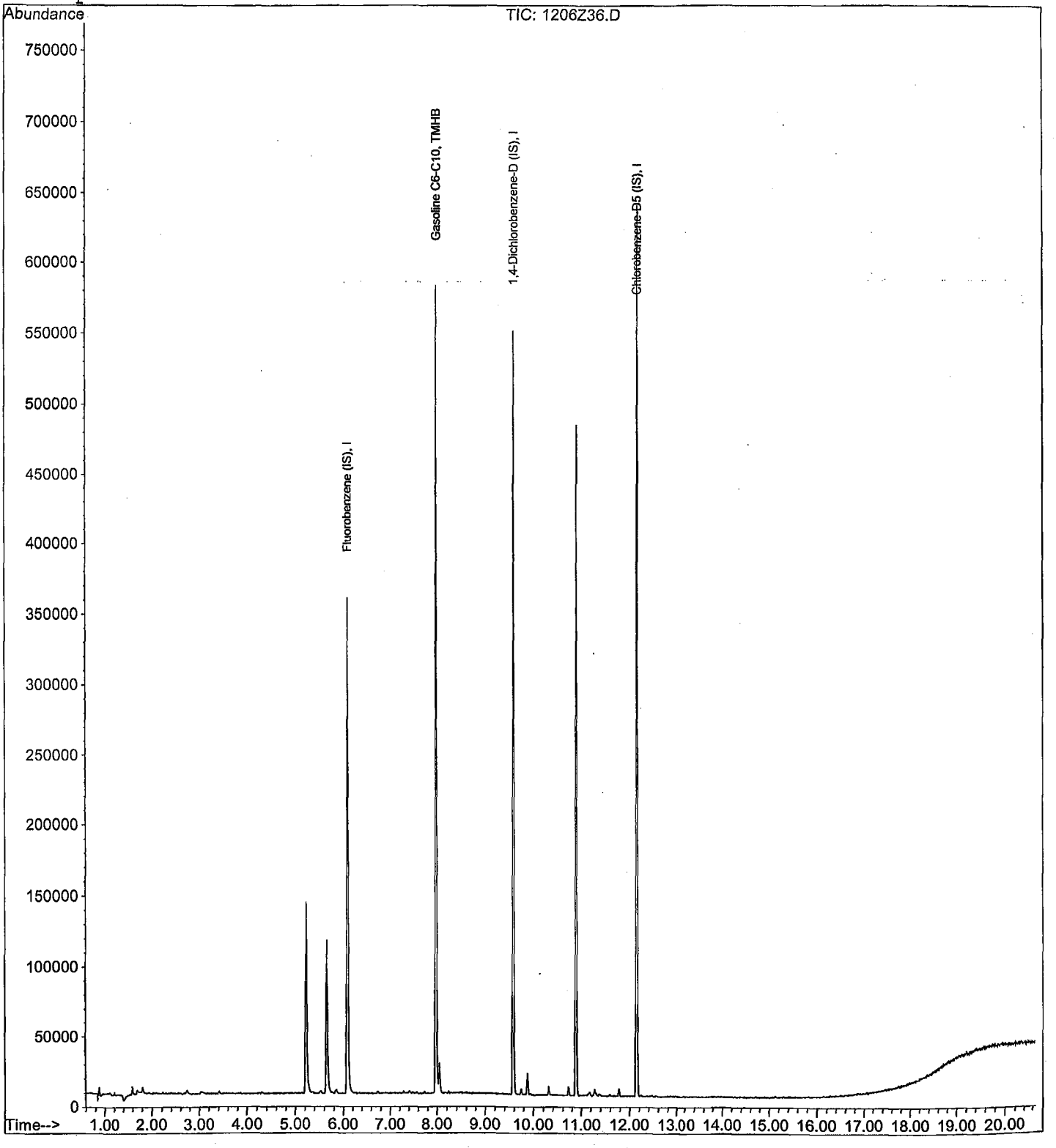
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z36.D Vial: 21
Acq On : 06 Dec 21 23:24 Operator: MH
Sample : 20ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:35 2021 Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z37.D Vial: 22
Acq On : 06 Dec 21 23:48 Operator: MH
Sample : 50ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:35 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:30:29 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	351086	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	606793	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	538264	25.000	ppb	0.08
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	7.98	TIC	4928196m	51.700	ppb	100

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

Quantitation Report

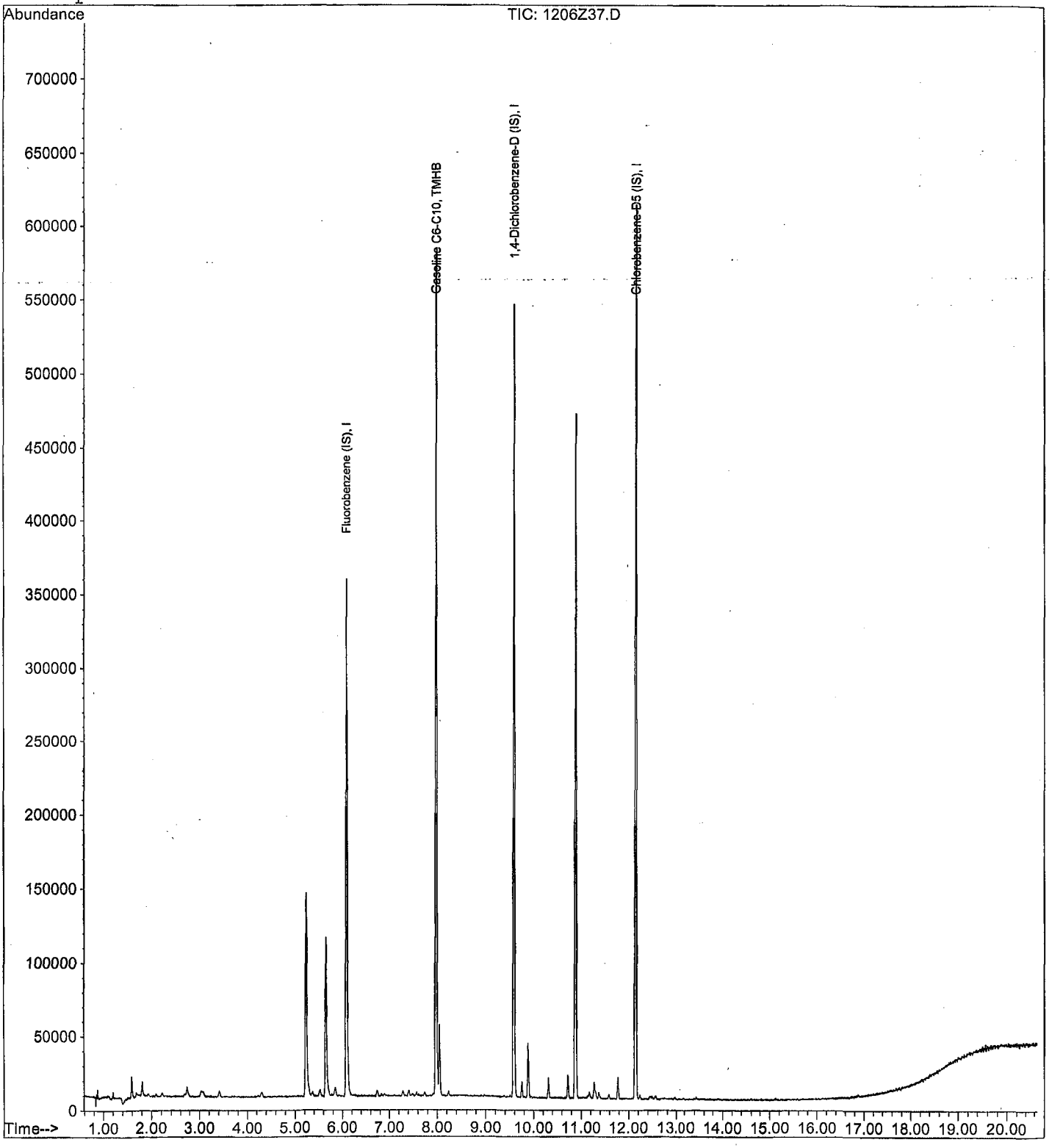
Data File : M:\ZEUS\DATA\211206\1206Z37.D
Acq On : 06 Dec 21 23:48
Sample : 50ug/L GAS STD 12/6/21
Misc :

Vial: 22
Operator: MH
Inst : Zeus
Multiplr: 1.00

Quant Time: Dec 7 12:35 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z38.D Vial: 23
Acq On : 07 Dec 21 00:12 Operator: MH
Sample : 100ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:36 2021 Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:30:29 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	351331	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	615816	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	528762	25.000	ppb	0.08
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	7.98	TIC	5512865m	109.716	ppb	100

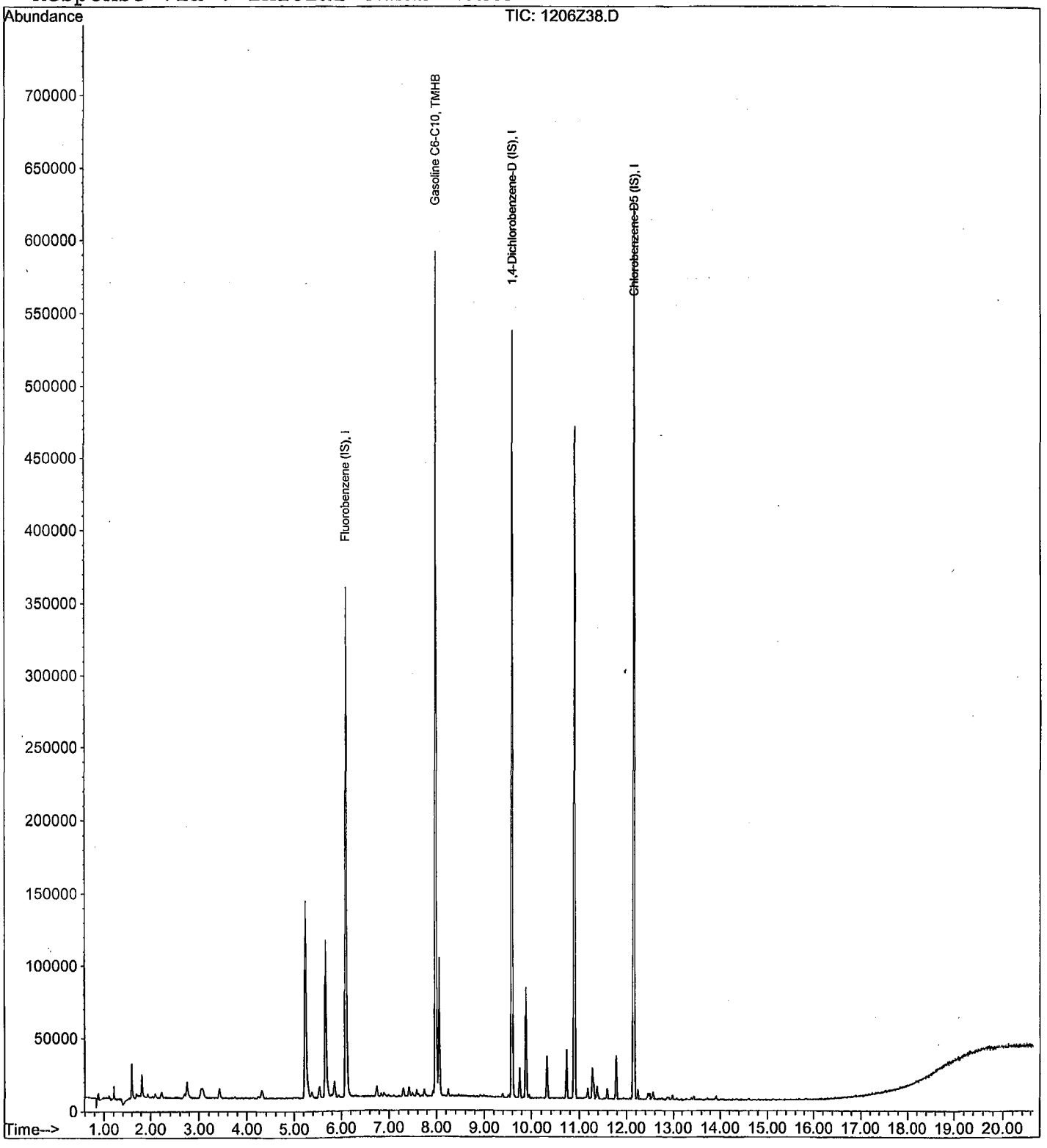
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z38.D Vial: 23
Acq On : 07 Dec 21 00:12 Operator: MH
Sample : 100ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:36 2021 Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z39.D Vial: 24
Acq On : 07 Dec 21 00:37 Operator: MH
Sample : 300ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:36 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:30:29 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	350046	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	632106	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	8028	25.000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	7.98	TIC	7644838m	325.324	ppb	100

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

Quantitation Report

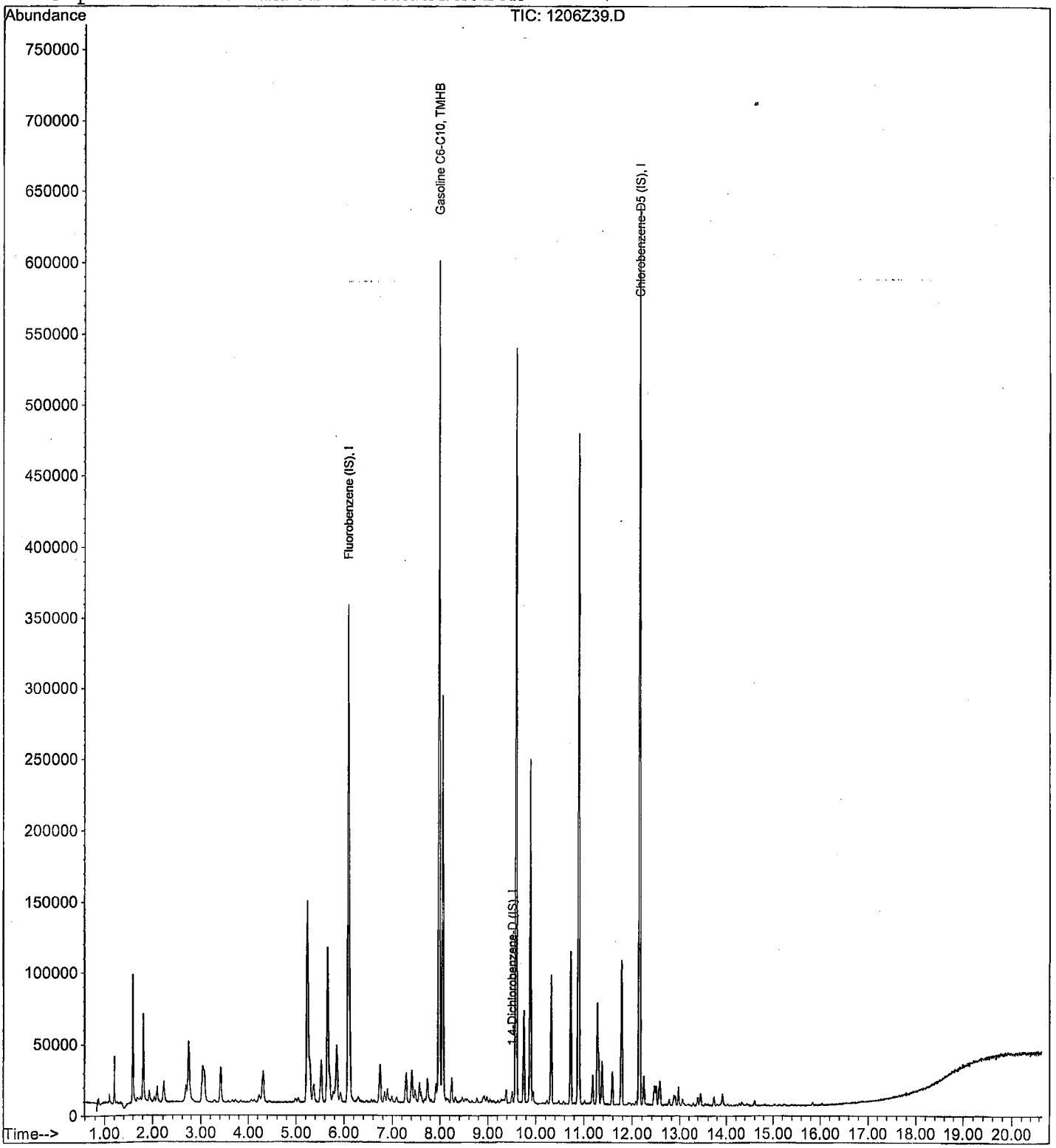
Data File : M:\ZEUS\DATA\211206\1206Z39.D
Acq On : 07 Dec 21 00:37
Sample : 300ug/L GAS STD 12/6/21
Misc :

Vial: 24
Operator: MH
Inst : Zeus
Multiplr: 1.00

Quant Time: Dec 7 12:36 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z40.D Vial: 25
Acq On : 07 Dec 21 01:01 Operator: MH
Sample : 600ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:36 2021 Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:30:29 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	379834	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	634059	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	16830	25.000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	8.05	TIC	11331953m	605.679	ppb	100

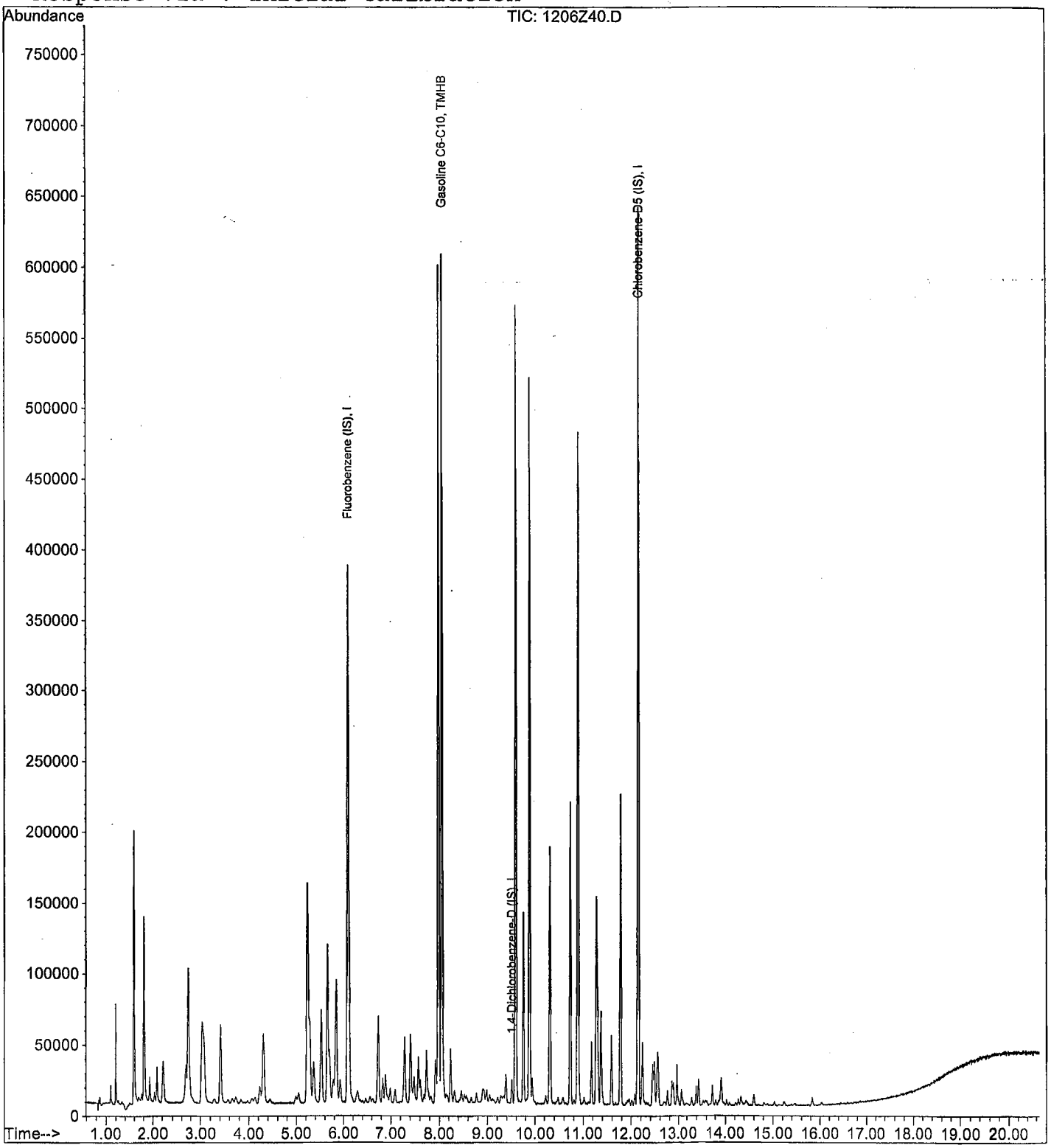
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z40.D Vial: 25
Acq On : 07 Dec 21 01:01 Operator: MH
Sample : 600ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:36 2021 Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z41.D Vial: 26
Acq On : 07 Dec 21 01:25 Operator: MH
Sample : 800ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:37 2021 Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:30:29 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	391564	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	638438	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	23343	25.000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	8.05	TIC	14168522m	828.382	ppb	100

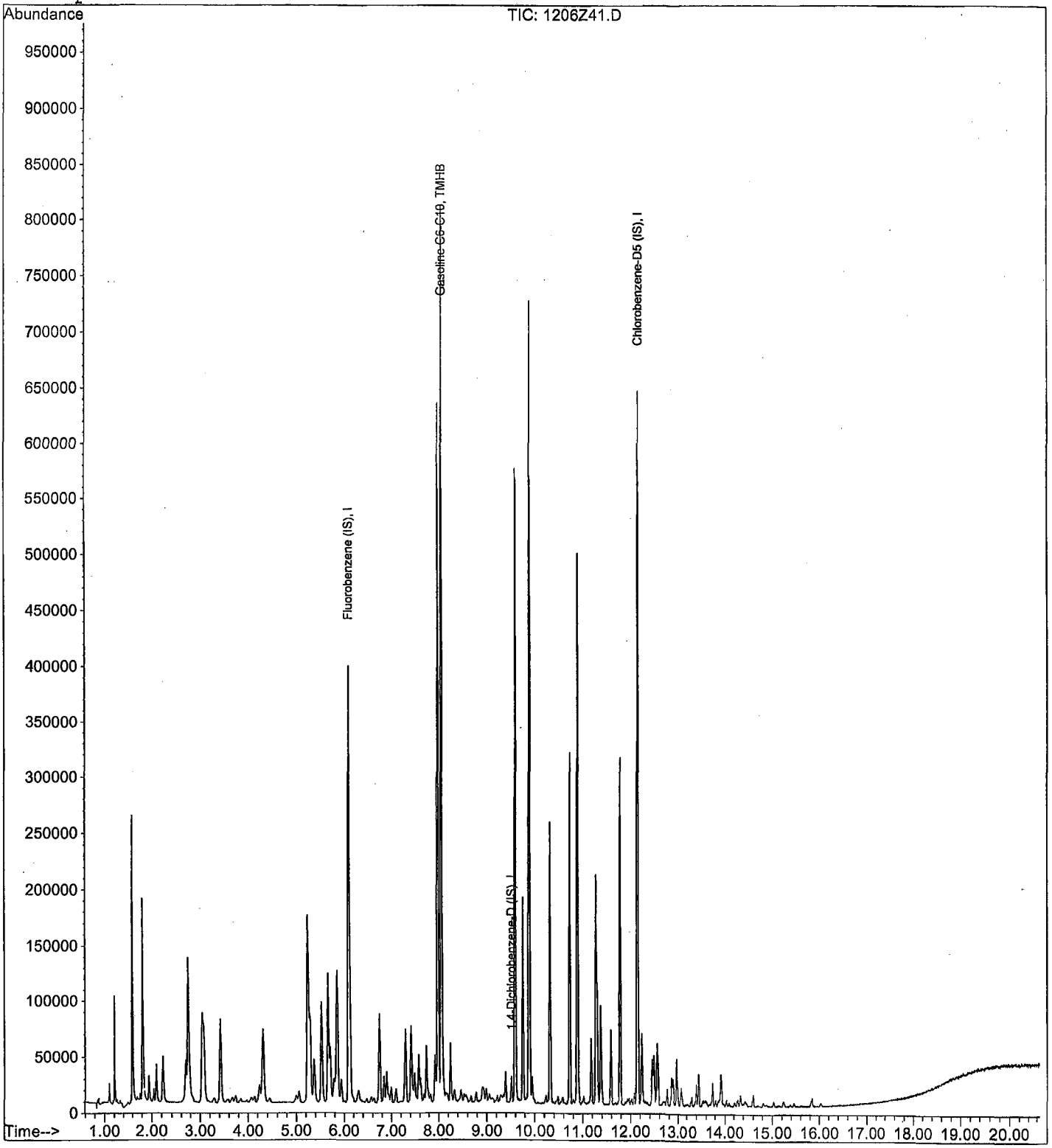
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z41.D Vial: 26
Acq On : 07 Dec 21 01:25 Operator: MH
Sample : 800ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:37 2021 Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z42.D Vial: 27
Acq On : 07 Dec 21 01:49 Operator: MH
Sample : 1000ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:37 2021 Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:30:29 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	401524	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	661948	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	30806	25.000	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	8.05	TIC	16723774m	1020.078	ppb	100

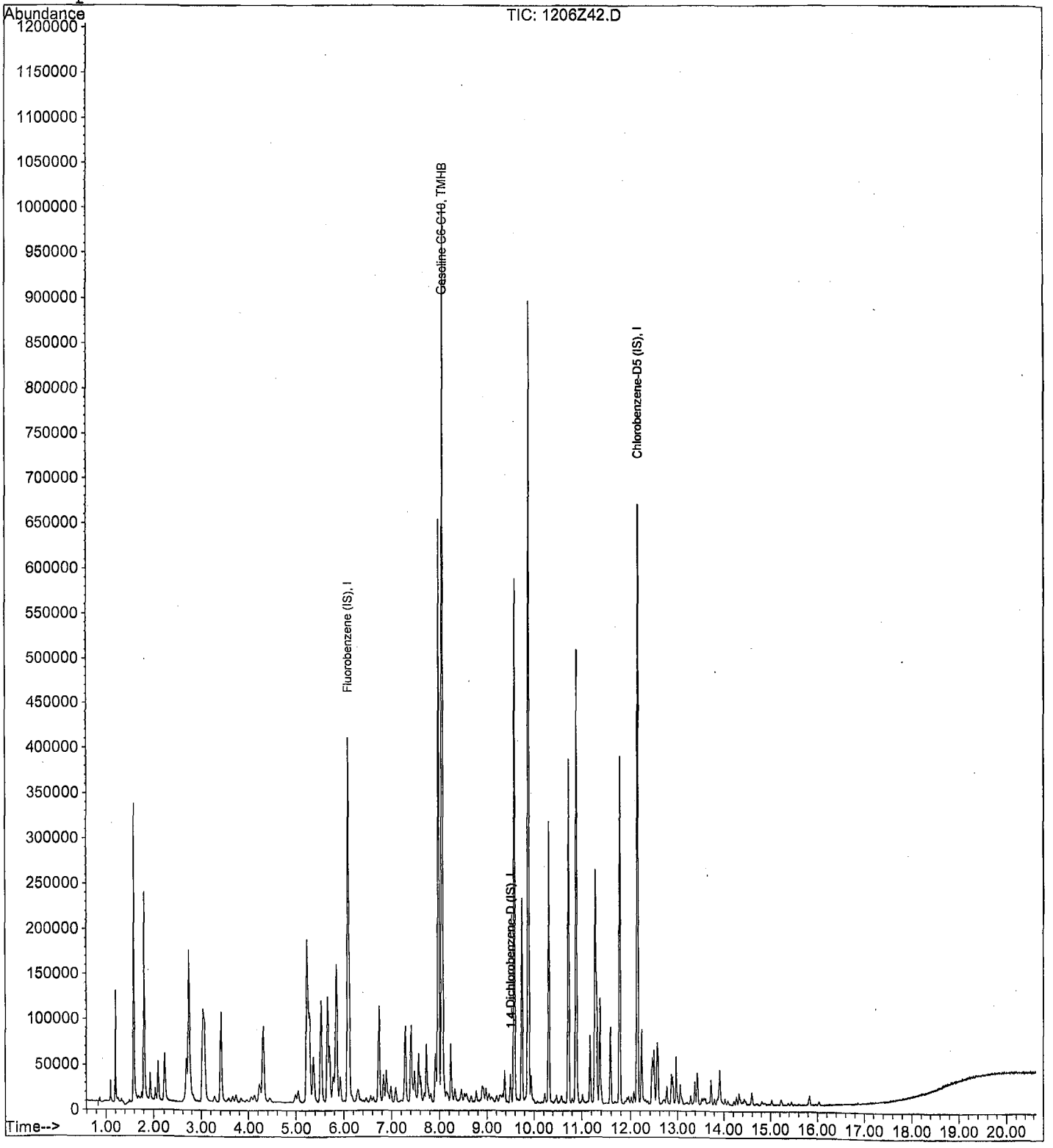
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z42.D Vial: 27
Acq On : 07 Dec 21 01:49 Operator: MH
Sample : 1000ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:37 2021 Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Second Source Calibration

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

SDG No:
Date Analyzed: 12/7/2021
Instrument: Zeus
Initial Cal. Date: 12/6/2021
Data File: 1206Z43.D

		Compound	MEAN	CCRF	%D	%Drift	
1	TMHB	Gasoline C6-C10	8.386	2.783	67	TMHBL	7.8
2							
3							
4							
5							
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39							
40							
		Average			67.0		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1206Z43.D Vial: 28
Acq On : 07 Dec 21 02:13 Operator: MH
Sample : (SS) 300ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:40 2021 Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:30:29 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	387052	25.000	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.15	TIC	654794	25.000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	11888	25.000	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	7.98	TIC	8706651m	348.303	ppb	100

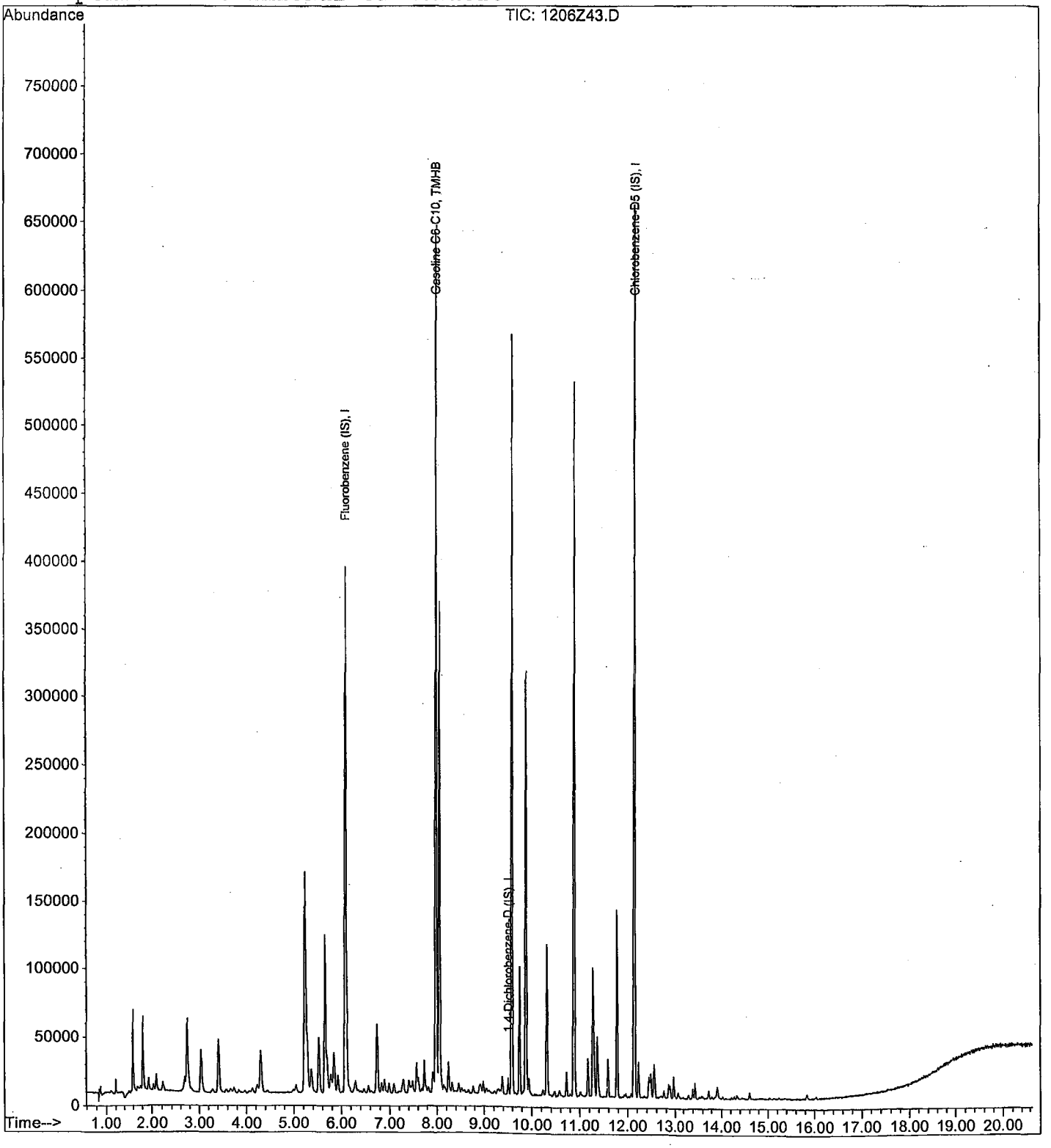
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1206Z43.D Vial: 28
Acq On : 07 Dec 21 02:13 Operator: MH
Sample : (SS) 300ug/L GAS STD 12/6/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 7 12:40 2021 Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 12/7/2021
Instrument: Zeus
Initial Cal. Date: 12/6/2021
Data File: 1207Z05.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	4.681	1.780	62	TMHBL	1.1
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
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7							
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38							
39							
40							
		Average			62.0		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Continuing Calibration

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

SDG No:
Date Analyzed: 12/7/2021
Instrument: Zeus
Initial Cal. Date: 12/6/2021
Data File: 1207Z05.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	S	Dibromofluoromethane(S)	0.2216	0.2384	7.6	S	
3	S	1,2-DCA-D4(S)	0.1869	0.2075	11	S	
4	I	Chlorobenzene-D5 (IS)	ISTD			I	
5	SL	Toluene-D8(S)	1.104	1.223	11	SL	1.3
6	SL	4-Bromofluorobenzene(S)	0.4508	0.5018	11	SL	1.4
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
8							
9							
10							
11							
12							
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39							
40							
		Average			10.2		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z05.D Vial: 5
Acq On : 07 Dec 21 16:43 Operator: MH
Sample : 211207A CCV 300ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 11:11 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	377708	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	643195	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	9839	25.00	ppb	0.00

System Monitoring Compounds

Target Compounds						Qvalue
2) Gasoline C6-C10	7.98	TIC	8067002m	296.68	ppb	100

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

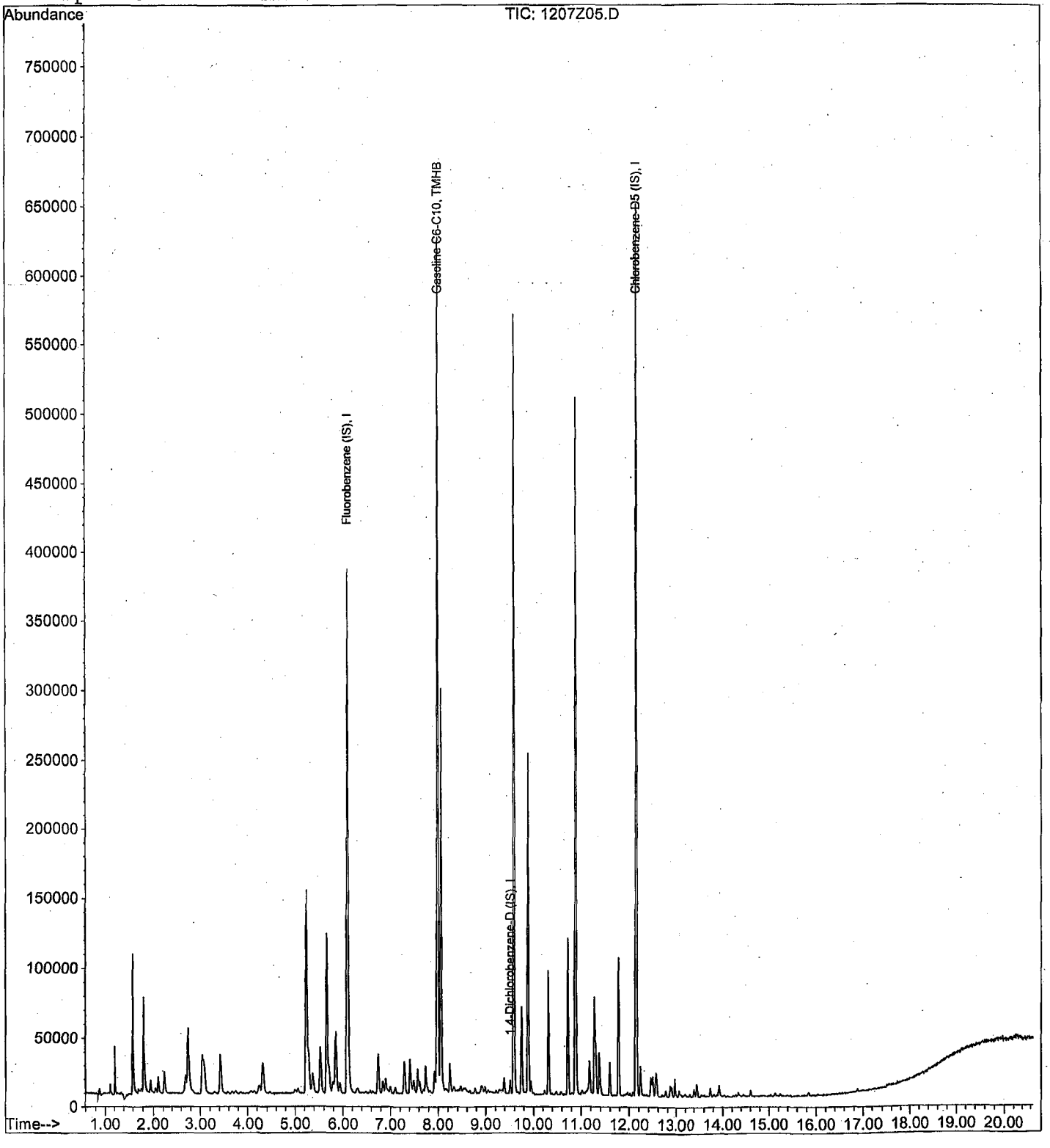
Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z05.D
Acq On : 07 Dec 21 16:43
Sample : 211207A CCV 300ug/L
Misc :

Vial: 5
Operator: MH
Inst : Zeus
Multiplr: 1.00

Quant Time: Dec 8 11:11 2021 Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z05.D Vial: 5
Acq On : 07 Dec 21 16:43 Operator: MH
Sample : 211207A CCV 300ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:30 2021 Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:53:13 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	403420	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	359753	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	121712	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	96159	26.89	ppb	0.00
Spiked Amount 25.000			Recovery =	107.560%		
3) 1,2-DCA-D4(S)	5.65	65	83696	27.75	ppb	0.00
Spiked Amount 25.000			Recovery =	110.980%		
5) Toluene-D8(S)	7.98	98	440031	25.33	ppb	0.00
Spiked Amount 25.000			Recovery =	101.340%		
6) 4-Bromofluorobenzene(S)	10.89	95	180510	25.34	ppb	0.00
Spiked Amount 25.000			Recovery =	101.368%		

Target Compounds Qvalue

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

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No:
Date Analyzed: 12/8/2021
Instrument: Zeus
Initial Cal. Date: 12/6/2021
Data File: 1207Z31.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	TMHB	Gasoline C6-C10	4.681	1.832	61	TMHBL	6.1
3	I	Chlorobenzene-D5 (IS)	ISTD			I	
4	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
5							
6							
7							
8							
9							
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37							
38							
39							
40							
		Average			61.0		

VOLATILE ORGANIC ANALYSIS
VOLATILE ORGANIC COMPOUNDS

Form 7

Ending Continuing Calibration

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

SDG No:
Date Analyzed: 12/8/2021
Instrument: Zeus
Initial Cal. Date: 12/6/2021
Data File: 1207Z31.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	Fluorobenzene (IS)	ISTD			I	
2	S	Dibromofluoromethane(S)	0.2216	0.2430	9.7	S	
3	S	1,2-DCA-D4(S)	0.1869	0.2013	7.7	S	
4	I	Chlorobenzene-D5 (IS)	ISTD			I	
5	SL	Toluene-D8(S)	1.104	1.189	7.7	SL	1.3
6	SL	4-Bromofluorobenzene(S)	0.4508	0.4921	9.1	SL	0.45
7	I	1,4-Dichlorobenzene-D (IS)	ISTD			I	
8							
9							
10							
11							
12							
13							
14							
15							
16							
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36							
37							
38							
39							
40							
		Average			8.6		

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z31.D Vial: 31
Acq On : 08 Dec 21 03:07 Operator: MH
Sample : Ending CCV 300ug/L 12/7/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 11:10 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	343870	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	594422	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	7097	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	7.98	TIC	7558404m	318.16	ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z31.D Vial: 31
Acq On : 08 Dec 21 03:07 Operator: MH
Sample : Ending CCV 300ug/L 12/7/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:30 2021 Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:53:13 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	368479	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	338733	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	111192	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	89551	27.42	ppb	0.00
Spiked Amount 25.000			Recovery =	109.664%		
3) 1,2-DCA-D4(S)	5.65	65	74176	26.92	ppb	0.00
Spiked Amount 25.000			Recovery =	107.684%		
5) Toluene-D8(S)	7.98	98	402893	24.68	ppb	0.00
Spiked Amount 25.000			Recovery =	98.720%		
6) 4-Bromofluorobenzene(S)	10.88	95	166682	24.89	ppb	0.00
Spiked Amount 25.000			Recovery =	99.544%		

Target Compounds Qvalue

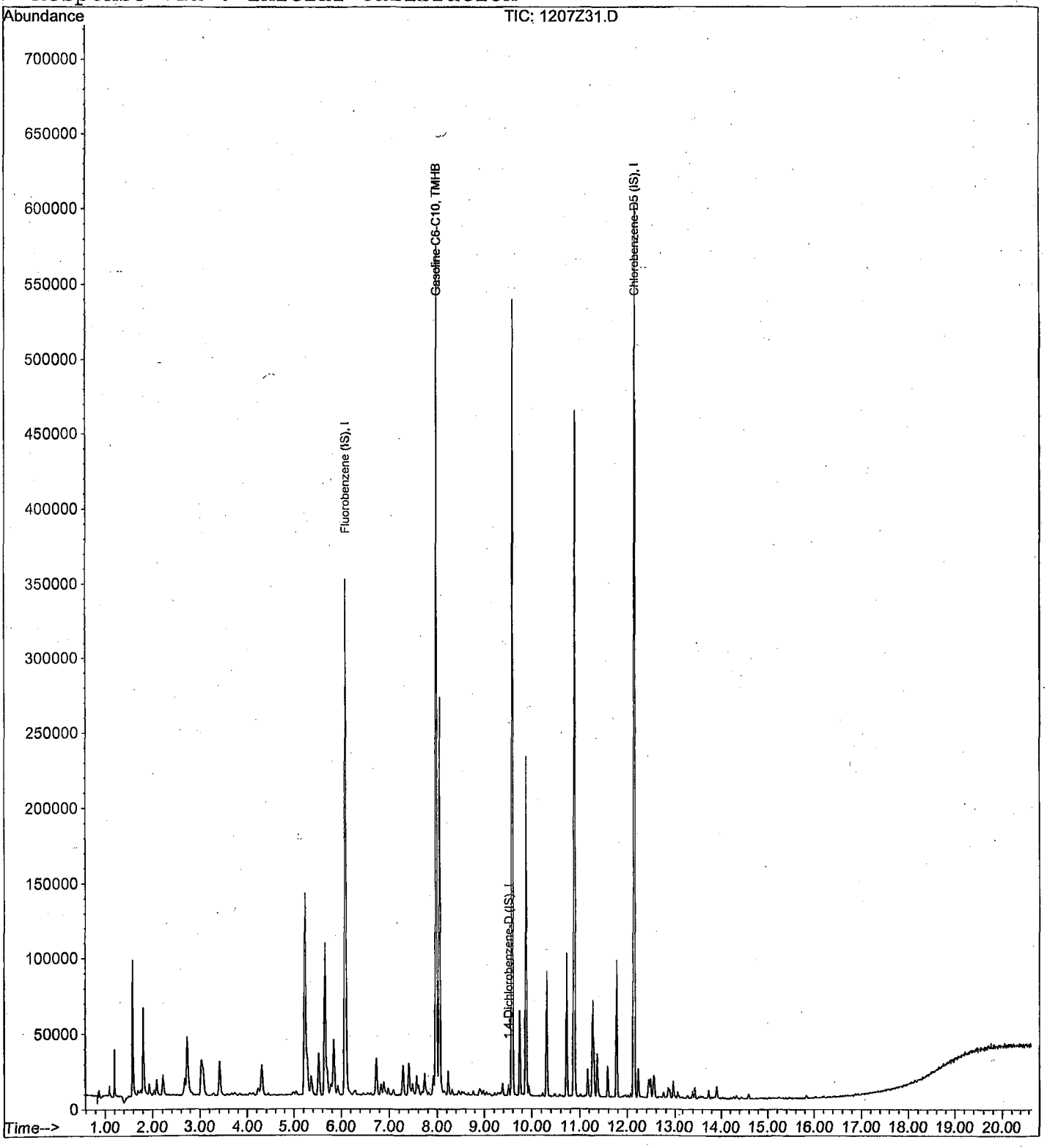
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z31.D Vial: 31
Acq On : 08 Dec 21 03:07 Operator: MH
Sample : Ending CCV 300ug/L 12/7/21 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 11:10 2021 Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z22.D Vial: 22
Acq On : 07 Dec 21 23:31 Operator: MH
Sample : BA47127W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 11:58 2021 Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	318439	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	571642	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	510370	25.00	ppb	0.08

System Monitoring Compounds

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z22.D Vial: 22
Acq On : 07 Dec 21 23:31 Operator: MH
Sample : BA47127W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:30 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:53:13 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	349672	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	331942	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	108368	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	90185	29.10	ppb	0.00
Spiked Amount 25.000			Recovery =	116.384%		
3) 1,2-DCA-D4(S)	5.65	65	73452	28.09	ppb	0.00
Spiked Amount 25.000			Recovery =	112.368%		
5) Toluene-D8(S)	7.98	98	396976	24.81	ppb	0.00
Spiked Amount 25.000			Recovery =	99.224%		
6) 4-Bromofluorobenzene(S)	10.89	95	162049	24.70	ppb	0.00
Spiked Amount 25.000			Recovery =	98.816%		

Target Compounds Qvalue

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

Quantitation Report

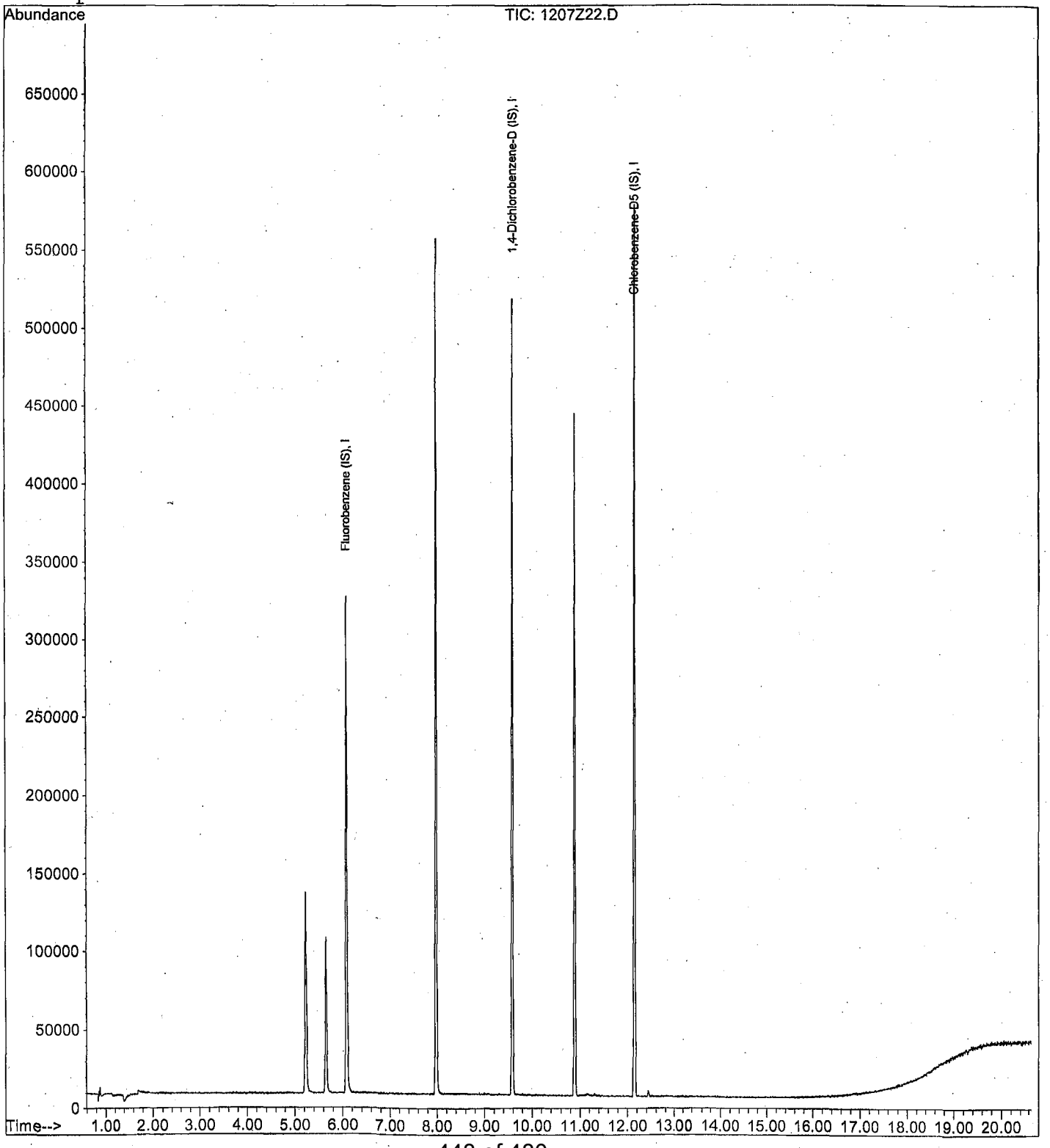
Data File : M:\ZEUS\DATA\211206\1207Z22.D
Acq On : 07 Dec 21 23:31
Sample : BA47127W02
Misc :

Vial: 22
Operator: MH
Inst : Zeus
Multiplr: 1.00

Quant Time: Dec 8 11:58 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z23.D Vial: 23
Acq On : 07 Dec 21 23:55 Operator: MH
Sample : BA47128W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 11:59 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	310619	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	599168	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	497575	25.00 ppb	0.08

System Monitoring Compounds

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z23.D Vial: 23
Acq On : 07 Dec 21 23:55 Operator: MH
Sample : BA47128W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:30 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:53:13 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	340943	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	324594	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	114528	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	90253	29.86	ppb	0.00
Spiked Amount 25.000			Recovery =	119.452%		
3) 1,2-DCA-D4(S)	5.65	65	72536	28.45	ppb	0.00
Spiked Amount 25.000			Recovery =	113.808%		
5) Toluene-D8(S)	7.98	98	394674	25.19	ppb	0.00
Spiked Amount 25.000			Recovery =	100.776%		
6) 4-Bromofluorobenzene(S)	10.89	95	163266	25.40	ppb	0.00
Spiked Amount 25.000			Recovery =	101.596%		

Target Compounds Qvalue

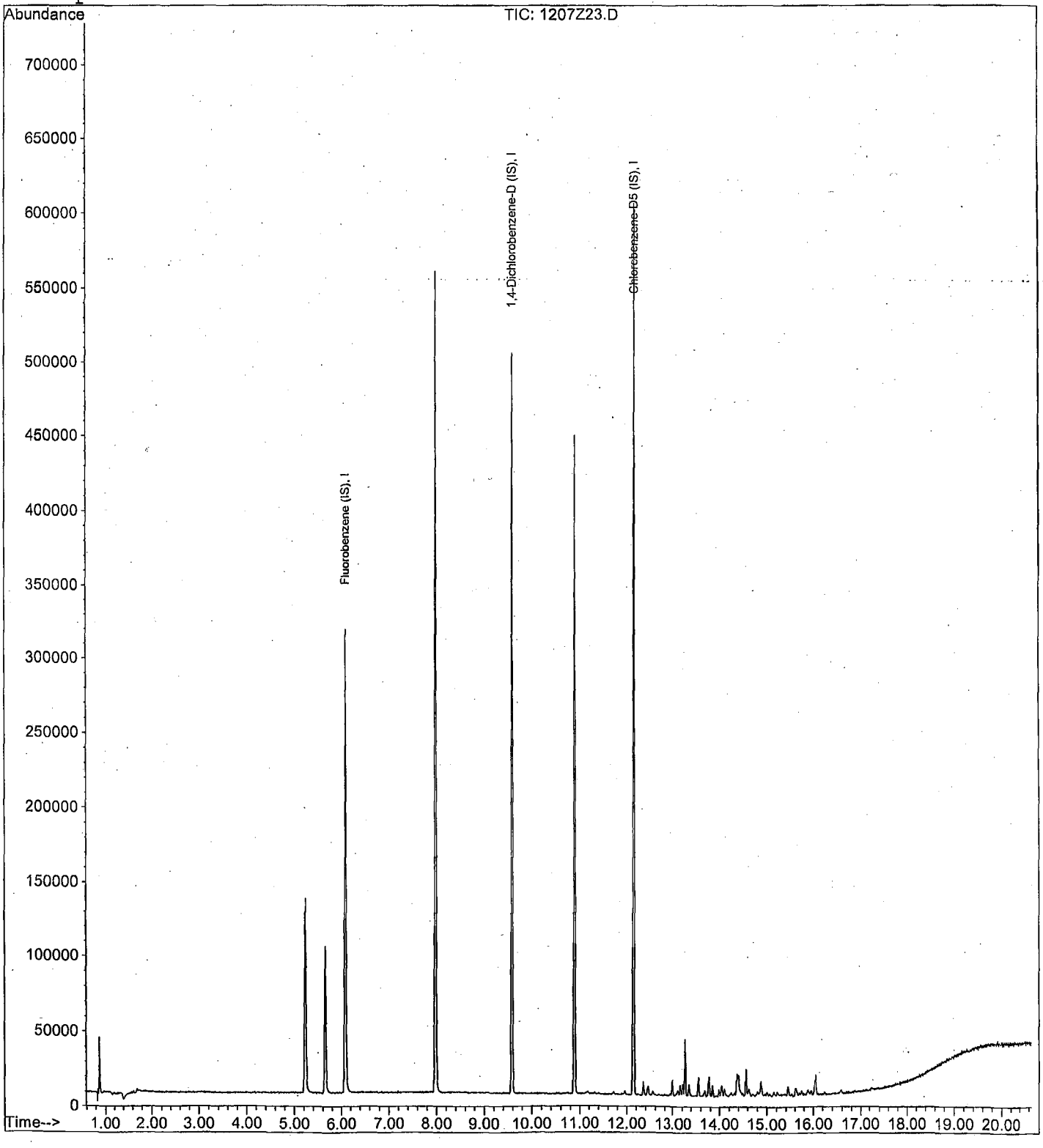
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z23.D Vial: 23
Acq On : 07 Dec 21 23:55 Operator: MH
Sample : BA47128W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 11:59 2021 Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z24.D Vial: 24
Acq On : 08 Dec 21 00:18 Operator: MH
Sample : BA47131W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:00 2021 Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	309608	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	568461	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	504348	25.00 ppb	0.08

System Monitoring Compounds

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z24.D Vial: 24
Acq On : 08 Dec 21 00:18 Operator: MH
Sample : BA47131W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:30 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:53:13 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	336633	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	321483	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	108368	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	88415	29.63	ppb	0.00
Spiked Amount 25.000			Recovery =	118.516%		
3) 1,2-DCA-D4(S)	5.65	65	70727	28.10	ppb	0.00
Spiked Amount 25.000			Recovery =	112.388%		
5) Toluene-D8(S)	7.98	98	387944	25.02	ppb	0.00
Spiked Amount 25.000			Recovery =	100.064%		
6) 4-Bromofluorobenzene(S)	10.89	95	157092	24.73	ppb	0.00
Spiked Amount 25.000			Recovery =	98.900%		

Target Compounds Qvalue

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

Quantitation Report

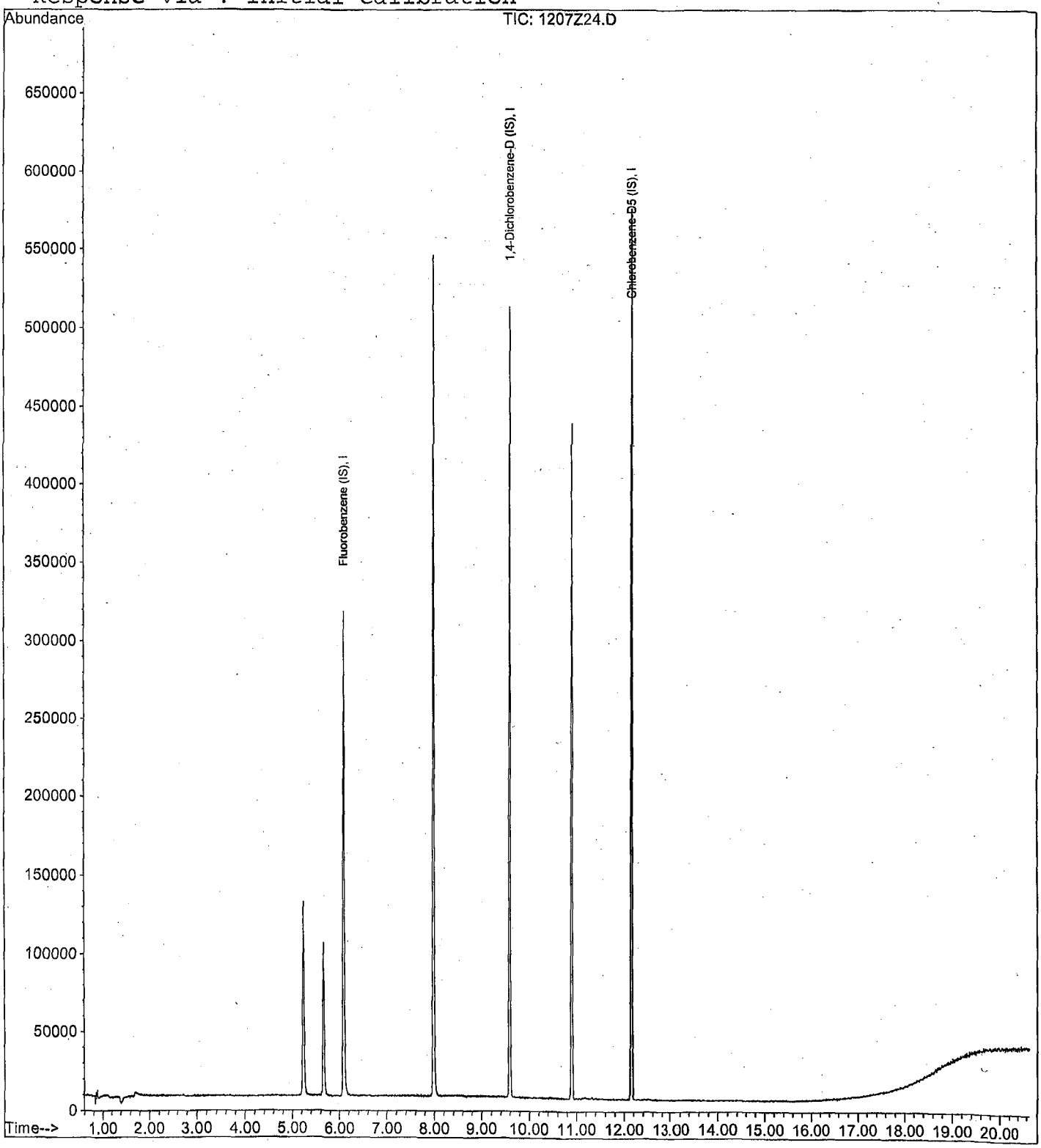
Data File : M:\ZEUS\DATA\211206\1207Z24.D
Acq On : 08 Dec 21 00:18
Sample : BA47131W02
Misc :

Vial: 24
Operator: MH
Inst : Zeus
Multiplr: 1.00

Quant Time: Dec 8 12:00 2021

Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z25.D Vial: 25
Acq On : 08 Dec 21 00:42 Operator: MH
Sample : BA47132W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:01 2021 Quant Results File: ZGAS1206.RES

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	315747	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	583582	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	513229	25.00	ppb	0.08
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	7.98	TIC	4557722m	57.95	ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z25.D Vial: 25
Acq On : 08 Dec 21 00:42 Operator: MH
Sample : BA47132W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:30 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:53:13 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	343342	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	327951	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	109872	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	90831	29.84	ppb	0.00
Spiked Amount 25.000			Recovery =	119.376%		
3) 1,2-DCA-D4(S)	5.65	65	74611	29.06	ppb	0.00
Spiked Amount 25.000			Recovery =	116.244%		
5) Toluene-D8(S)	7.98	98	395371	24.99	ppb	0.00
Spiked Amount 25.000			Recovery =	99.976%		
6) 4-Bromofluorobenzene(S)	10.88	95	168561	25.92	ppb	0.00
Spiked Amount 25.000			Recovery =	103.664%		

Target Compounds Qvalue

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

Quantitation Report

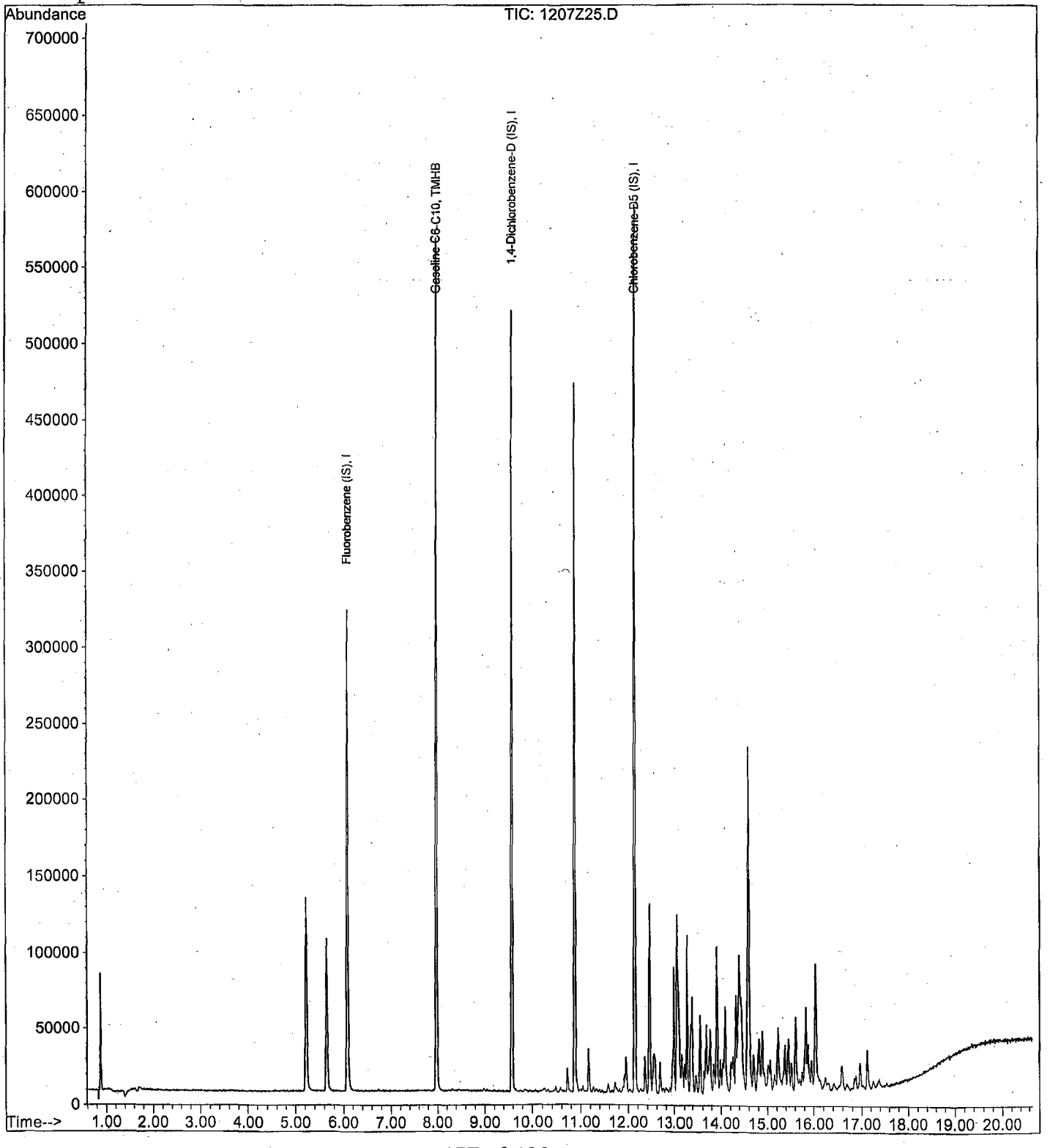
Data File : M:\ZEUS\DATA\211206\1207Z25.D
Acq On : 08 Dec 21 00:42
Sample : BA47132W02
Misc :

Vial: 25
Operator: MH
Inst : Zeus
Multiplr: 1.00

Quant Time: Dec 8 12:01 2021

Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z26.D Vial: 26
Acq On : 08 Dec 21 01:07 Operator: MH
Sample : BA47133W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:01 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	327472	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	612573	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	517522	25.00	ppb	0.08

System Monitoring Compounds

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z26.D Vial: 26
Acq On : 08 Dec 21 01:07 Operator: MH
Sample : BA47133W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:30 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:53:13 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	355797	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	331891	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	114432	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	90450	28.68	ppb	0.00
Spiked Amount 25.000			Recovery =	114.716%		
3) 1,2-DCA-D4(S)	5.65	65	75835	28.50	ppb	0.00
Spiked Amount 25.000			Recovery =	114.016%		
5) Toluene-D8(S)	7.98	98	403960	25.22	ppb	0.00
Spiked Amount 25.000			Recovery =	100.872%		
6) 4-Bromofluorobenzene(S)	10.88	95	166382	25.32	ppb	0.00
Spiked Amount 25.000			Recovery =	101.284%		

Target Compounds Qvalue

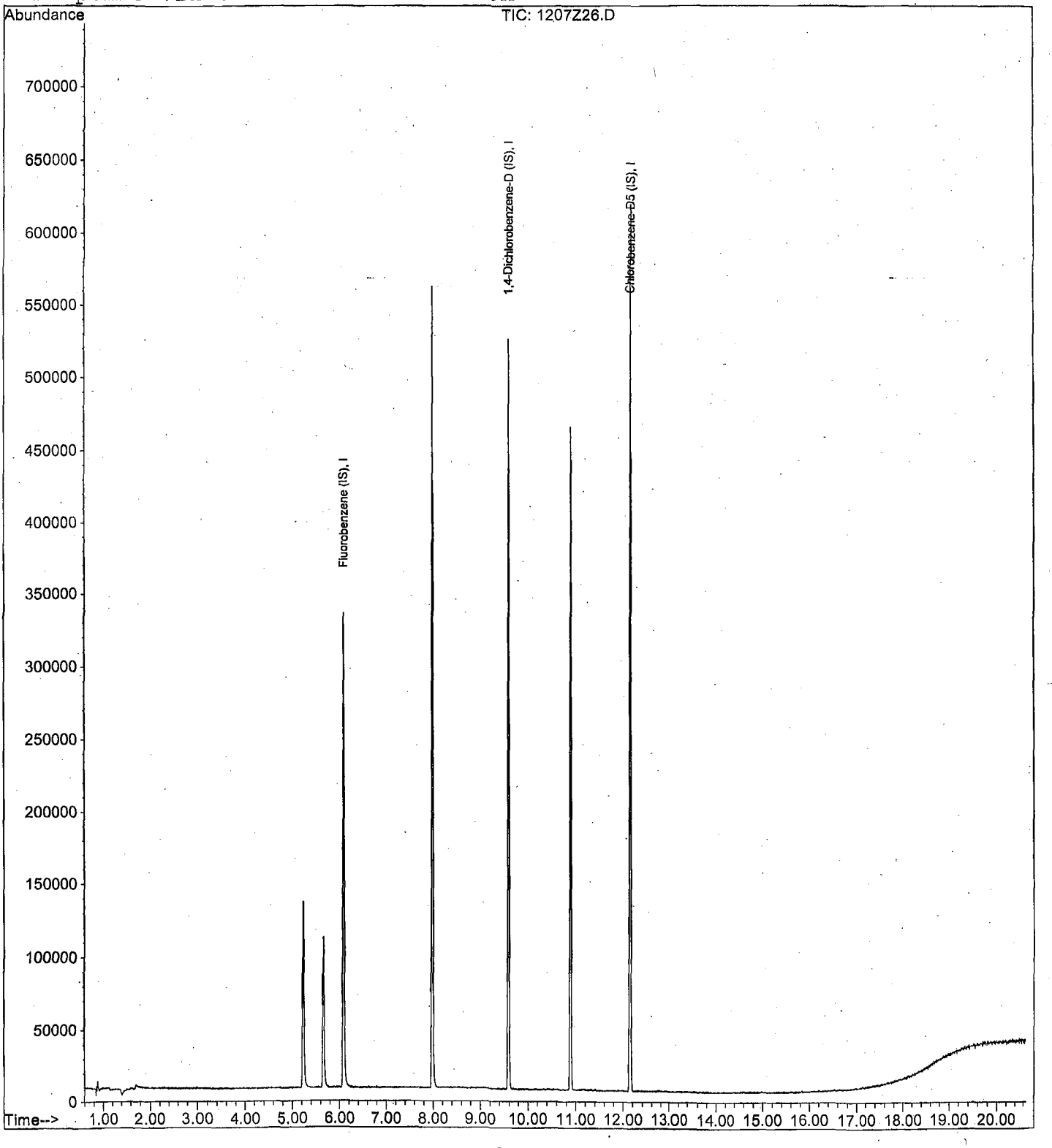
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z26.D Vial: 26
Acq On : 08 Dec 21 01:07 Operator: MH
Sample : BA47133W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:01 2021 Quant Results File: ZGAS1206.RES

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z27.D Vial: 27
Acq On : 08 Dec 21 01:31 Operator: MH
Sample : BA47134W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:02 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	321317	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.15	TIC	602925	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	505420	25.00	ppb	0.08

System Monitoring Compounds

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z27.D Vial: 27
Acq On : 08 Dec 21 01:31 Operator: MH
Sample : BA47134W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:30 2021 Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:53:13 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	350501	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	329377	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.15	152	113520	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	88120	28.36	ppb	0.00
Spiked Amount 25.000			Recovery =	113.448%		
3) 1,2-DCA-D4(S)	5.65	65	72314	27.59	ppb	0.00
Spiked Amount 25.000			Recovery =	110.364%		
5) Toluene-D8(S)	7.98	98	389171	24.53	ppb	0.00
Spiked Amount 25.000			Recovery =	98.108%		
6) 4-Bromofluorobenzene(S)	10.89	95	159854	24.57	ppb	0.00
Spiked Amount 25.000			Recovery =	98.276%		

Target Compounds Qvalue

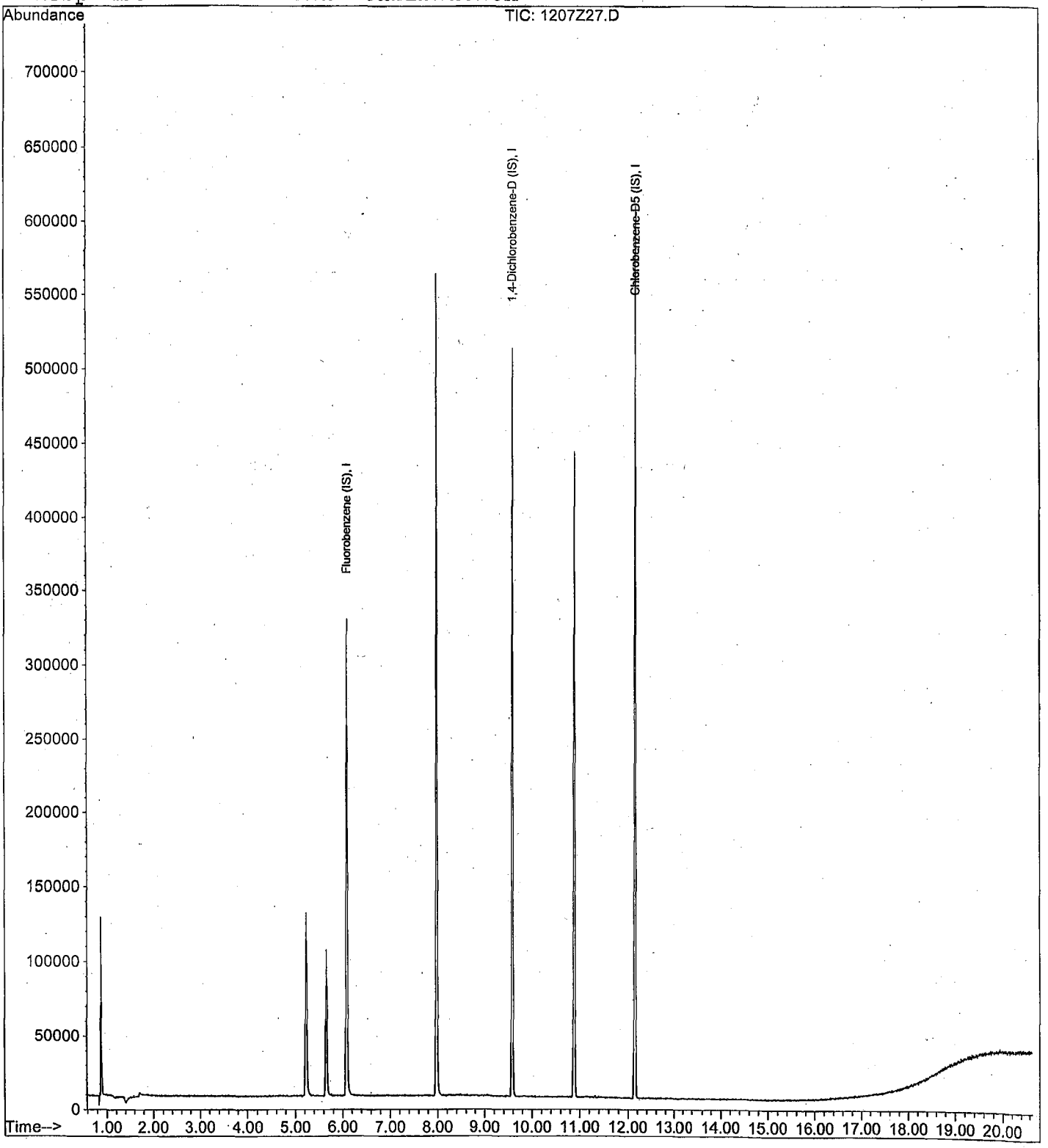
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z27.D Vial: 27
Acq On : 08 Dec 21 01:31 Operator: MH
Sample : BA47134W02 Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:02 2021 Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z08.D Vial: 8
Acq On : 07 Dec 21 17:55 Operator: MH
Sample : 211207A BLK Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 11:10 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	349530	25.00 ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	623528	25.00 ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.58	TIC	540290	25.00 ppb	0.08

System Monitoring Compounds

Target Compounds Qvalue

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z08.D Vial: 8
Acq On : 07 Dec 21 17:55 Operator: MH
Sample : 211207A BLK Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:30 2021 Quant Results File: Z1206SUR.RES

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:53:13 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	384177	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	351591	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	118712	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	95522	28.05	ppb	0.00
Spiked Amount 25.000			Recovery =	112.200%		
3) 1,2-DCA-D4(S)	5.65	65	80692	28.09	ppb	0.00
Spiked Amount 25.000			Recovery =	112.356%		
5) Toluene-D8(S)	7.98	98	424721	25.04	ppb	0.00
Spiked Amount 25.000			Recovery =	100.164%		
6) 4-Bromofluorobenzene(S)	10.88	95	176479	25.35	ppb	0.00
Spiked Amount 25.000			Recovery =	101.400%		

Target Compounds Qvalue

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

Quantitation Report

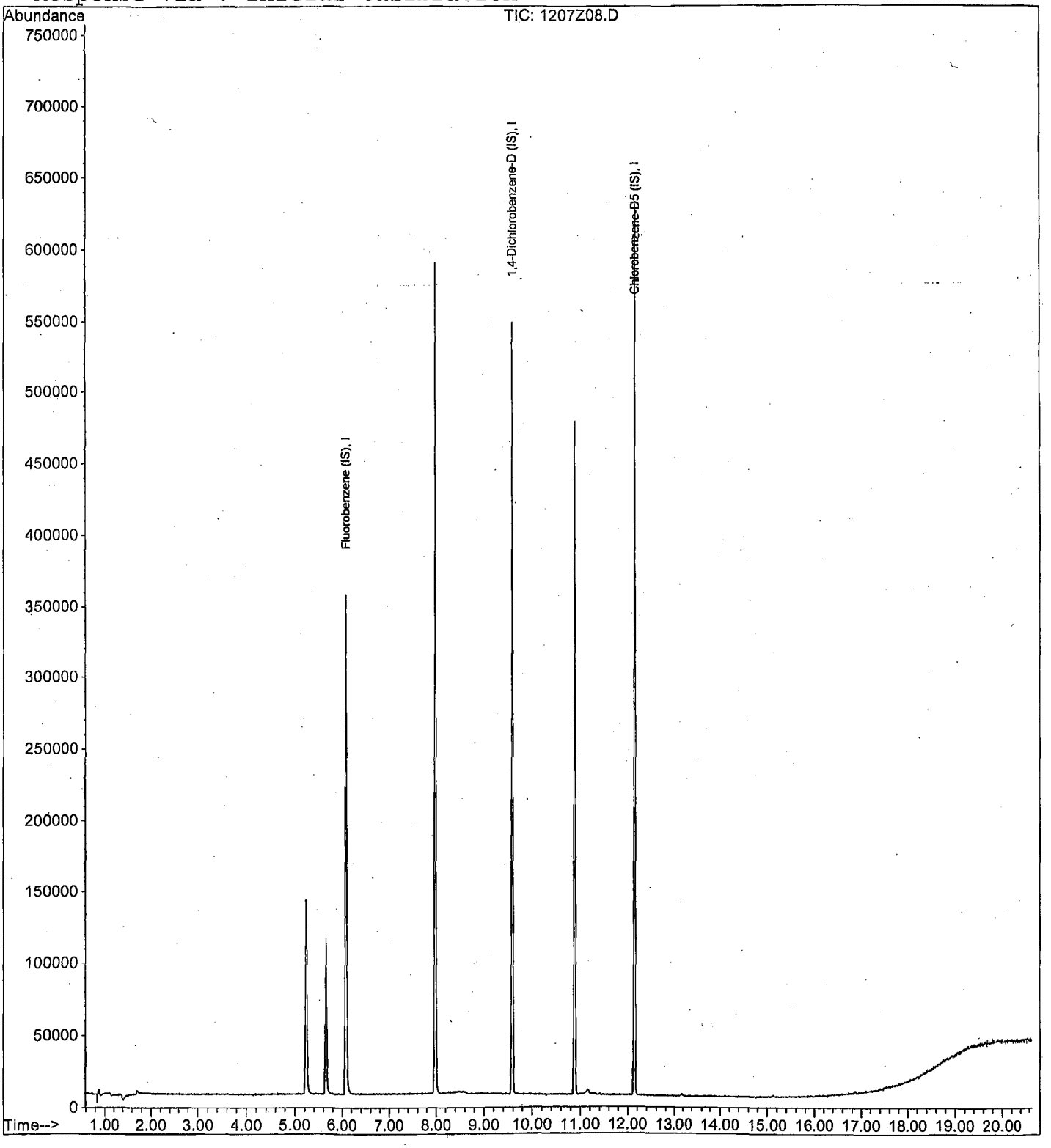
Data File : M:\ZEUS\DATA\211206\1207Z08.D
Acq On : 07 Dec 21 17:55
Sample : 211207A BLK
Misc :

Vial: 8
Operator: MH
Inst : Zeus
Multiplr: 1.00

Quant Time: Dec 8 11:10 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z06.D Vial: 6
Acq On : 07 Dec 21 17:07 Operator: MH
Sample : 211207A LCS 300ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 11:12 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	374048	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	623740	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	9626	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	7.98	TIC	7971092m	295.05	ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z06.D Vial: 6
Acq On : 07 Dec 21 17:07 Operator: MH
Sample : 211207A LCS 300ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:30 2021 Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:53:13 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	401543	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	360119	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.14	152	118408	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	96703	27.17	ppb	0.00
Spiked Amount 25.000			Recovery = 108.672%			
3) 1,2-DCA-D4(S)	5.65	65	83452	27.79	ppb	0.00
Spiked Amount 25.000			Recovery = 111.176%			
5) Toluene-D8(S)	7.98	98	440076	25.31	ppb	0.00
Spiked Amount 25.000			Recovery = 101.252%			
6) 4-Bromofluorobenzene(S)	10.88	95	180761	25.35	ppb	0.00
Spiked Amount 25.000			Recovery = 101.404%			

Target Compounds Qvalue

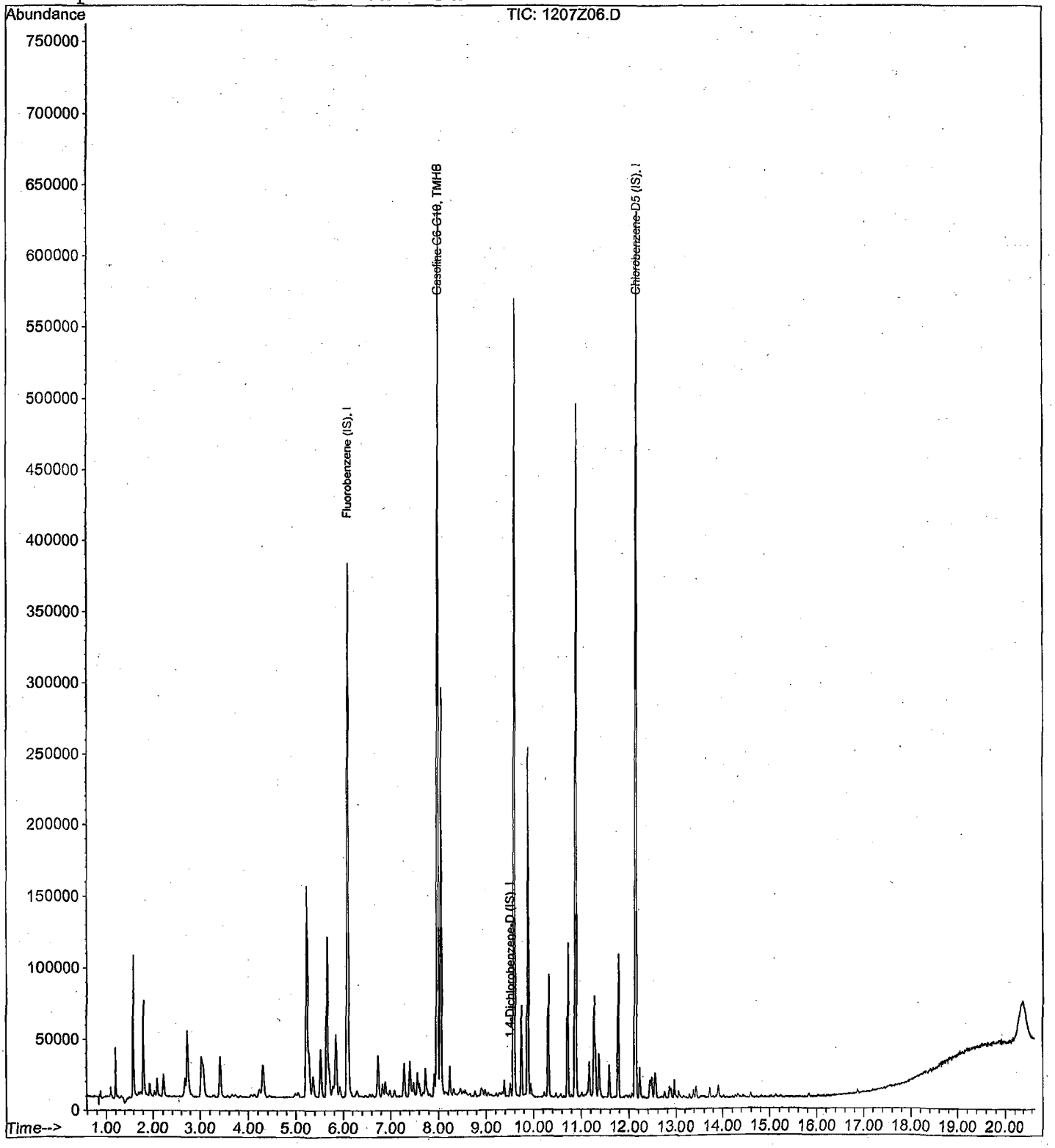
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\ZEUS\DATA\211206\1207Z06.D Vial: 6
Acq On : 07 Dec 21 17:07 Operator: MH
Sample : 211207A LCS 300ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 11:12 2021 Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z07.D Vial: 7
Acq On : 07 Dec 21 17:31 Operator: MH
Sample : 211207A LCSD 300ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 11:12 2021 Quant Results File: ZGAS1206.RE

Quant Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	TIC	363812	25.00	ppb	0.00
3) Chlorobenzene-D5 (IS)	12.14	TIC	619178	25.00	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	9.51	TIC	9420	25.00	ppb	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
2) Gasoline C6-C10	7.98	TIC	7829854m	302.34	ppb	100

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

Quantitation Report (Not Reviewed)

Data File : M:\ZEUS\DATA\211206\1207Z07.D Vial: 7
Acq On : 07 Dec 21 17:31 Operator: MH
Sample : 211207A LCSD 300ug/L Inst : Zeus
Misc : Multiplr: 1.00

Quant Time: Dec 8 12:30 2021 Quant Results File: Z1206SUR.RE

Quant Method : M:\ZEUS\DATA\211206\Z1206SUR.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:53:13 2021
Response via : Initial Calibration
DataAcq Meth : 082421_Z8260.M

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	6.09	96	393678	25.00	ppb	0.00
4) Chlorobenzene-D5 (IS)	9.58	117	351479	25.00	ppb	0.00
7) 1,4-Dichlorobenzene-D (IS)	12.15	152	117352	25.00	ppb	0.00
System Monitoring Compounds						
2) Dibromofluoromethane(S)	5.23	111	94460	27.07	ppb	0.00
Spiked Amount 25.000			Recovery = 108.272%			
3) 1,2-DCA-D4(S)	5.65	65	81302	27.62	ppb	0.00
Spiked Amount 25.000			Recovery = 110.472%			
5) Toluene-D8(S)	7.98	98	430165	25.35	ppb	0.00
Spiked Amount 25.000			Recovery = 101.396%			
6) 4-Bromofluorobenzene(S)	10.89	95	176969	25.42	ppb	0.00
Spiked Amount 25.000			Recovery = 101.692%			

Target Compounds Qvalue

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

Quantitation Report

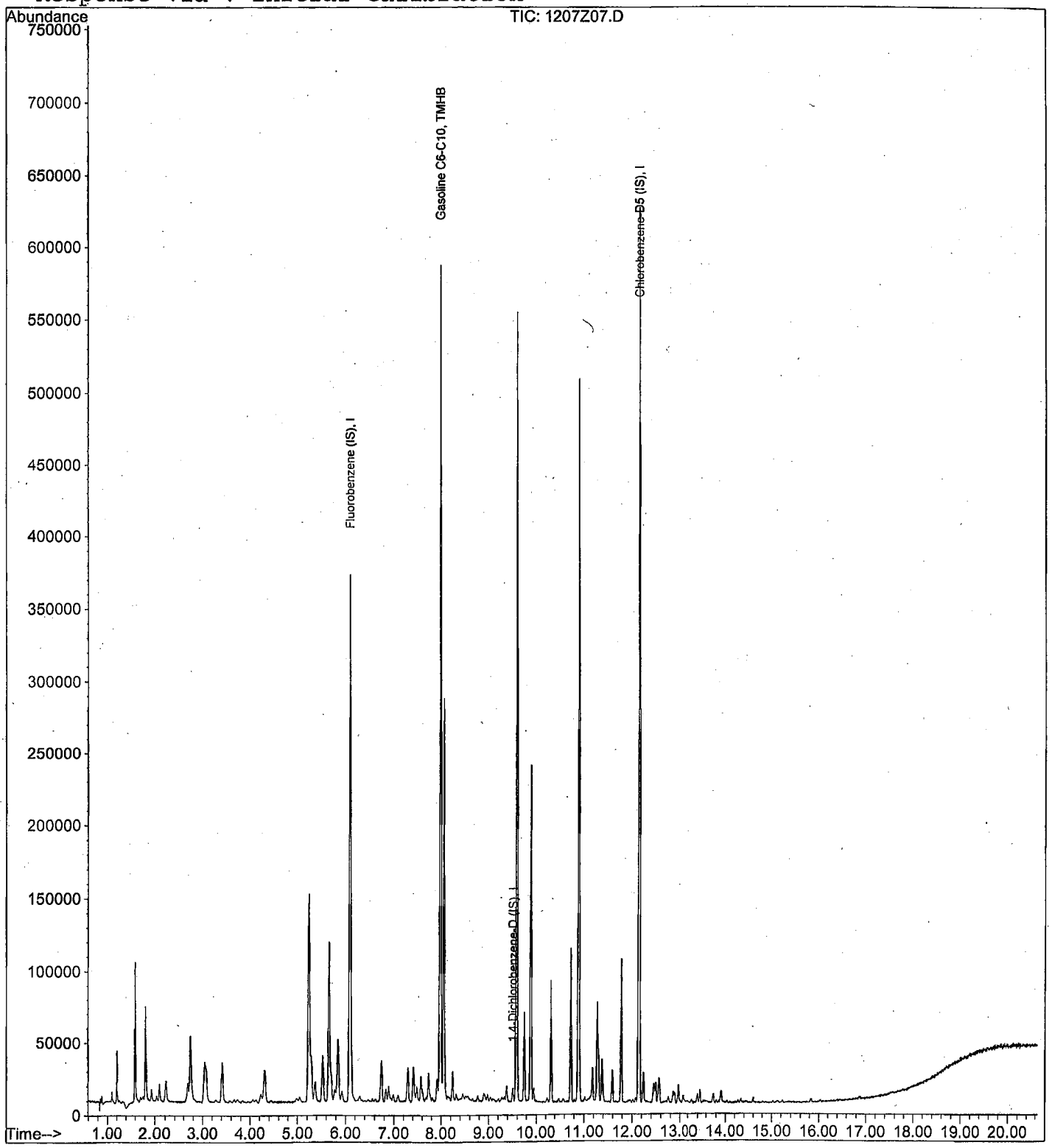
Data File : M:\ZEUS\DATA\211206\1207Z07.D
Acq On : 07 Dec 21 17:31
Sample : 211207A LCSD 300ug/L
Misc :

Vial: 7
Operator: MH
Inst : Zeus
Multiplr: 1.00

Quant Time: Dec 8 11:12 2021

Quant Results File: ZGAS1206.RE

Method : M:\ZEUS\DATA\211206\ZGAS1206.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Tue Dec 07 12:37:53 2021
Response via : Initial Calibration



ZEUS 8260 Standard Prep

ZEUS 8260 Water Calibration Curve

0.3ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.3ug/L	5	Prepared 11/29/21	1/28/2022	N/A	3uL	50mL	P&T Water	0.3
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	5uL			5
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	2.5uL			5
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	2uL			10

0.5ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	0.5ug/L	5	Prepared 11/29/21	1/28/2022	N/A	5uL	50mL	P&T Water	0.5
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	5uL			10
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	5uL			25

1.0ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	1.0ug/L	5	Prepared 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	1
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	20uL			20
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	10uL			20
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	10uL			50

2.0ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 9	Various	2.0ug/L	5	Prepared 11/29/21	1/28/2022	N/A	20uL	50mL	P&T Water	2
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	30uL			30
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	15uL			30
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	15uL			75

5ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	5ug/L	50	Prepared 11/29/21	1/28/2022	N/A	5uL	50mL	P&T Water	5
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	5uL			5
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	40uL			40
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	20uL			20
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	20uL			100

10ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	10ug/L	50	Prepared 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	50uL			50
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	25uL			50
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	25uL			125

20ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	20ug/L	50	Prepared 11/29/21	1/28/2022	N/A	20uL	50mL	P&T Water	20
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	20uL			20
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	60uL			60
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	30uL			60
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	30uL			150

40ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	40ug/L	50	Prepared 11/29/21	1/28/2022	N/A	40uL	50mL	P&T Water	40
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	40uL			40
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	80uL			80
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	40uL			80
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	35uL			175

100ug/L

Prepared: 12/6/2021

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	100ug/L	50	Prepared 11/29/21	1/28/2022	N/A	100uL	50mL	P&T Water	100
VOA STD. 8	Phenova		50	Prepared 11/29/21	12/15/2021	N/A	100uL			100
VOA STD. 1	Absolute		50	Prepared 11/29/21	1/28/2022	N/A	100uL			100
VOA STD. 2	Phenova		100	Prepared 11/29/21	1/28/2022	N/A	50uL			100
VOA STD. TBA	Various		250	Prepared 11/29/21	12/15/2021	N/A	40uL			200

ZEUS 8260 Water Second Source (SS)

Prepared: 12/6/2021

Prepared By (Initials): CH

Expires: 12/15/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 3	Phenova	8260 Water SS	100	Prepared 11/29/21	1/28/2022	N/A	25uL	50mL	P&T Water	50
VOA STD. GASES	Phenova	8260 Water SS	50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 0	Phenova	8260 Water SS	50	Prepared 11/29/21	1/28/2022	N/A	10uL			10
VOA STD. 2-CEVE	Absolute	8260 Water SS	50	Prepared 11/29/21	11/29/2021	N/A	50uL			50
VOA STD. 6	Various	8260 Water SS	50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
Voa STD. TBA	Various	8260 Water SS	250	Prepared 11/29/21	12/15/2021	N/A	25uL			250

8260 Water Continuing Calibrations (CCV)/ Lab Control Spikes (LCS)

Prepared: 12/6/2021

Prepared By (Initials): CH

Expires: 12/7/2021

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA STD. 7	Various	CCV/ LCS	50	Prepared 11/29/21	1/28/2022	N/A	10uL	50mL	P&T Water	10
VOA STD. 8	Phenova	CCV/ LCS	50	Prepared 11/29/21	12/15/2021	N/A	10uL			10
VOA STD. 1	Absolute	CCV/ LCS	50	Prepared 11/29/21	1/28/2022	N/A	50uL			50
VOA STD. 2	Phenova	CCV/ LCS	100	Prepared 11/29/21	1/28/2022	N/A	25uL			50
VOA STD. TBA	Various	CCV/ LCS	250	Prepared 11/29/21	12/15/2021	N/A	25uL			250

ZEUS Gas Standard Prep

Gas Primary Working Standard

Prepared: 12/6/2021
Expires: 1/4/2022
Methanol Lot No.

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
50,000ug/mL Gas STD	Restek	30205	50,000	A0132443	1/4/2022	12/31/2024	80uL	2mL	Methanol	2,000

Gas Second Source (SS) Working Standard

Prepared: 3/31/2021
Expires: 1/31/1930
Methanol Lot No.

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
Gasoline (50,000ppm)	Phenova	ALO-101543	50,000	CL14915-51175	1/4/2022	1/31/1930	80uL	2mL	Methanol	2,000

LOKI Gas Calibration Curve

Prepared: 12/6/2021
Expires: 2/4/2022

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
VOA Gasses Standards	Phenova	20ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	1uL	100mL	P&T Water	20
VOA Gasses Standards	Phenova	50ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	2.5uL	100mL	P&T Water	50
VOA Gasses Standards	Phenova	100ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	5uL	100mL	P&T Water	100
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	15uL	100mL	P&T Water	300
VOA Gasses Standards	Phenova	600ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	30uL	100mL	P&T Water	600
VOA Gasses Standards	Phenova	800ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	40uL	100mL	P&T Water	800
VOA Gasses Standards	Phenova	1,000ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	50uL	100mL	P&T Water	1,000

Zeus Gas Second Source

Prepared: 12/6/2021
Expires: 2/4/2022

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	APPL Mix Name	Conc. (ug/mL)	Reference To APPL Prep Date	Exp. Date	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/L)
50,000ug/mL Gas STD	Phenova	SS 300ug/L	2,000	Prepared 03/31/21	1/31/1930	N/A	15uL	100mL	P&T Water	300

ZEUS Gas Continuing Calibrations/Lab Control Spikes

Prepared: 12/6/2021
Expires: 12/7/2021

Prepared By (Initials): CH

Initial Standard Information							Final Standard Information			
Name of Initial Standard (QAU Label)	Supplier	Supplier P/N#	Conc. (ug/mL)	Lot Number - QA Number	Exp. Date (1 yr)	Exp. Date (Manufacturers)	Aliquot From Stock	Final Volume	Solvent	Final Standard Conc. (ug/mL)
VOA Gasses Standards	Phenova	300ug/L	2,000	Prepared 12/06/21	1/4/2022	N/A	15uL	100mL	P&T Water	300

Injection Log

Directory: M:\ZEUS\DATA\211206\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	1206Z17.D	1	0.3ug/L VOC STD 12/6/21		06 Dec 21 15:48
2	3	1206Z18.D	1	0.5ug/L VOC STD 12/6/21		06 Dec 21 16:12
3	4	1206Z19.D	1	1ug/L VOC STD 12/6/21		06 Dec 21 16:36
4	5	1206Z20.D	1	2ug/L VOC STD 12/6/21		06 Dec 21 17:00
5	6	1206Z21.D	1	5ug/L VOC STD 12/6/21		06 Dec 21 17:24
6	7	1206Z22.D	1	10ug/L VOC STD 12/6/21		06 Dec 21 17:48
7	8	1206Z23.D	1	20ug/L VOC STD 12/6/21		06 Dec 21 18:12
8	9	1206Z24.D	1	40ug/L VOC STD 12/6/21		06 Dec 21 18:36
9	10	1206Z25.D	1	100ug/L VOC STD 12/6/21		06 Dec 21 19:00
10	21	1206Z36.D	1	20ug/L GAS STD 12/6/21		06 Dec 21 23:24
11	22	1206Z37.D	1	50ug/L GAS STD 12/6/21		06 Dec 21 23:48
12	23	1206Z38.D	1	100ug/L GAS STD 12/6/21		07 Dec 21 00:12
13	24	1206Z39.D	1	300ug/L GAS STD 12/6/21		07 Dec 21 00:37
14	25	1206Z40.D	1	600ug/L GAS STD 12/6/21		07 Dec 21 01:01
15	26	1206Z41.D	1	800ug/L GAS STD 12/6/21		07 Dec 21 01:25
16	27	1206Z42.D	1	1000ug/L GAS STD 12/6/21		07 Dec 21 01:49
17	28	1206Z43.D	1	(SS) 300ug/L GAS STD 12/6/21		07 Dec 21 02:13

Injection Log

Directory: M:\ZEUS\DATA\211206\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	5	1207Z05.D	1	211207A CCV 300ug/L		07 Dec 21 16:43
2	6	1207Z06.D	1	211207A LCS 300ug/L		07 Dec 21 17:07
3	7	1207Z07.D	1	211207A LCSD 300ug/L		07 Dec 21 17:31
4	8	1207Z08.D	1	211207A BLK		07 Dec 21 17:55
5	22	1207Z22.D	1	BA47127W02		07 Dec 21 23:31
6	23	1207Z23.D	1	BA47128W02		07 Dec 21 23:55
7	24	1207Z24.D	1	BA47131W02		08 Dec 21 00:18
8	25	1207Z25.D	1	BA47132W02		08 Dec 21 00:42
9	26	1207Z26.D	1	BA47133W02		08 Dec 21 01:07
10	27	1207Z27.D	1	BA47134W02		08 Dec 21 01:31
11	31	1207Z31.D	1	Ending CCV 300ug/L 12/7/21		08 Dec 21 03:07

INORGANIC ANALYSIS
Calibration and Raw Data

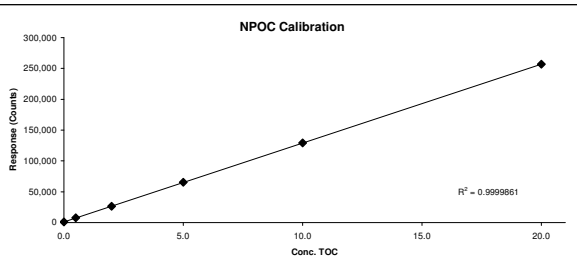
TOTAL ORGANIC CARBON

Method: WetChem | Units mg/L | Instrument: Tic Toc

Analyte: TOC | QCG: 211206A

Analyist: EA | Final Volume: 40mL

Date	Time	Appl ID	[TOC]	Raw	% Recovery
11/27/2021	13:37	QC blank	0.00	872	
11/27/2021	16:18	Ical 1	0.50	7728	
11/27/2021	16:58	Ical 2	2.00	26223	
11/27/2021	17:38	Ical 3	5.00	65575	
11/27/2021	18:19	Ical 4	10.00	129337	
11/27/2021	19:00	Ical 5	20.00	256854	
11/27/2021	19:41	ICB	0.05	1142	
11/27/2021	20:21	ICV	9.90	127224	99.0%



Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Filter Blank Subtract	Calc Conc	Result	Range (mg/L)	QC True	% Recovery
2021-12-06	05:02 PM	CCB Prime	1	1448	40mL	0.000	0.074	0.07	0.09		
2021-12-06	05:43 PM	QCB	1	1067	40mL	0.000	0	0.00	0.00		
2021-12-06	06:24 PM	211206A CCV/LCS 1	1	69022	40mL	0.000	5.309	5.31	0.17	5.00	106.2%
2021-12-06	07:05 PM	211206A CCB/Blk 1	1	1166	40mL	0.000	0.011	0.01	0.04		
2021-12-06	08:26 PM	BA47126W01 53	1	57906	40mL	0.000	4.486	4.49	1.28		
2021-12-06	09:08 PM	BA47129W01 53	1	15406	40mL	0.000	1.165	1.17	0.44		
2021-12-06	09:50 PM	BA47128W05 53	1	97071	40mL	0.000	7.546	7.55	2.01		
2021-12-06	10:32 PM	BA47130W01 53	1	7307	40mL	0.000	0.532	0.53	0.63		
2021-12-06	11:12 PM	BA47134W05 53	1	101986	40mL	0.000	7.93	7.93	3.38		
2021-12-06	11:52 PM	BA47136W01 53	1	7182	40mL	0.000	0.523	0.52	1.22		
2021-12-07	12:32 AM	BA47132W05 53	1	30465	40mL	0.000	2.341	2.34	1.91		
2021-12-07	01:13 AM	BA47135W01 53	1	3603	40mL	0.000	0.242	0.24	0.46		
2021-12-07	01:53 AM	BA39118W03 TOC	1	57515	40mL	0.000	4.455	4.46	0.02		
2021-12-07	03:14 AM	211206A CCV/LCSD 2	1	66453	40mL	0.000	5.109	5.11	0.09	5.00	102.2%
2021-12-07	03:55 AM	211206A CCB 2	1	1213	40mL	0.000	0.017	0.02	0.06		
2021-12-07	04:36 AM	BA39119W03 TOC	1	66957	40mL	0.000	5.194	5.19	0.10		
2021-12-07	05:59 AM	BA39120W03 TOC	1	57767	40mL	0.000	4.475	4.48	0.18		
2021-12-07	07:20 AM	BA38690W03 TOC	1	16966	40mL	0.000	1.287	1.29	0.11		
2021-12-07	08:41 AM	BA39117W03 TOC	1	68643	40mL	0.000	5.325	5.33	0.11		
2021-12-07	10:08 AM	BA38683W03 TOC	1	39813	40mL	0.000	3.072	3.07	0.04		
2021-12-07	11:30 AM	211206A CCV 3	1	65847	40mL	0.000	5.061	5.06	0.01	5.00	101.2%
2021-12-07	12:11 PM	211206A CCB 3	1	1049	40mL	0.000	0.007	0.01	0.03		

Name of Final Standard TOC Calibration Curve — **Prep'd By (Initials)** EA

Prep Date 11/27/2021

Exp Date 11/27/2022

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard Cal 1	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	20 uL	40 mL	DI Water	0.5 ppm
Total Organic Carbon (TOC) Standard Cal 2	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	80 uL	40 mL	DI Water	2 ppm
Total Organic Carbon (TOC) Standard Cal 3	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	DI Water	5 ppm
Total Organic Carbon (TOC) Standard Cal 4	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	400 uL	40 mL	DI Water	10 ppm
Total Organic Carbon (TOC) Standard Cal 5	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	800 uL	40 mL	DI Water	20 ppm

Name of Final Standard ICV (TOC) — **Prep'd By (Initials)** EA

Prep Date 11/27/2021

Exp Date 11/27/2022

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
1000 PPM ICV TOC Intermediate	APPL Inc.	IQC-106-5	1000 mg/L	0006465171-49409	6/30/2021	400 uL	40mL	DI Water	10 ppm

ICV recertified against the non-expired calibration

Name of Final Standard CCV (TOC) — **Prep'd By (Initials)** EA

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard TOC_LCS/LCSD — **Prep'd By (Initials)** EA

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	DI Water	5 ppm

Name of Final Standard TOC_MS/MSD — **Prep'd By (Initials)** EA

Prep Date See Data

Exp Date 1 year

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	sample	5 ppm