SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMS-ICM, Humacao, PR

02I

SGS Accutest Job Number: JC23443

Sampling Dates: 06/30/16 - 07/05/16

Report to:

Anderson, Mulholland & Associates
2700 Westchester Avenue Suite 417
Purchase, NY 10577
ROReilly@amaiconsult.com; ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: **658**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, TX, VA, WV, DoD ELAP (L-A-B L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

SGS Accutest is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.

Table of Contents

-1-

Section 1: Sample Summary 3
Section 2: Case Narrative/Conformance Summary 4
Section 3: Summary of Hits 5
Section 4: Sample Results 6
4.1: JC23443-1: OSGP4-GWD 7
4.2: JC23443-2: OSGP4-GWS 8
4.3: JC23443-3: OSGP5-GWD 9
4.4: JC23443-4: OSGP5-GWS 10
4.5: JC23443-5: OSGP6-GWD 11
Section 5: Misc. Forms 12
5.1: Chain of Custody 13
5.2: Sample Tracking Chronicle 16
5.3: Internal Chain of Custody 17
Section 6: GC/MS Semi-volatiles - QC Data Summaries 19
6.1: Method Blank Summary 20
6.2: Blank Spike Summary 26
6.3: Matrix Spike/Matrix Spike Duplicate Summary 28
6.4: Instrument Performance Checks (DFTPP) 30
6.5: Internal Standard Area Summaries 51
6.6: Surrogate Recovery Summaries 59
6.7: Initial and Continuing Calibration Summaries 60
Section 7: GC/MS Semi-volatiles - Raw Data 122
7.1: Samples 123
7.2: Method Blanks 142
7.3: Blank Spikes 154
7.4: Matrix Spike/Matrix Spike Duplicates 160
7.5: Instrument Performance Checks (DFTPP) 172
7.6: Initial and Continuing Calibrations 303
7.7: Instrument Run Logs 631
7.8: Prep Logs 657

SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: JC23443

BMS-ICM, Humacao, PR
Project No: 02I

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC23443-1	06/30/16	15:10	TT	07/06/16	AQ	Ground Water	OSGP4-GWD
JC23443-2	06/30/16	17:15	TT	07/06/16	AQ	Ground Water	OSGP4-GWS
JC23443-3	07/01/16	13:45	TT	07/06/16	AQ	Ground Water	OSGP5-GWD
JC23443-4	07/05/16	11:00	TT	07/06/16	AQ	Ground Water	OSGP5-GWS
JC23443-5	07/05/16	13:40	TT	07/06/16	AQ	Ground Water	OSGP6-GWD

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC23443
Site:	BMS-ICM, Humacao, PR	**Report Date**	7/15/2016 1:16:33 PM

On 07/06/2016, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 5.2 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC23443 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP95323A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC23294-1MS, JC23294-1MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** OP95328A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC23251-2MS, JC23251-2MSD were used as the QC samples indicated.

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS Accutest is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS Accutest indicated via signature on the report cover

Summary of Hits

Job Number: JC23443
Account: Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Collected: 06/30/16 thru 07/05/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC23443-1	**OSGP4-GWD**					
No hits reported in this sample.						
JC23443-2	**OSGP4-GWS**					
No hits reported in this sample.						
JC23443-3	**OSGP5-GWD**					
1,4-Dioxane		1.69	0.11	0.054	ug/l	SW846 8270D BY SIM
JC23443-4	**OSGP5-GWS**					
1,4-Dioxane		33.3	1.1	0.052	ug/l	SW846 8270D BY SIM
JC23443-5	**OSGP6-GWD**					
1,4-Dioxane		5.81	1.1	0.054	ug/l	SW846 8270D BY SIM

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP4-GWD		
Lab Sample ID:	JC23443-1	**Date Sampled:**	06/30/16
Matrix:	AQ - Ground Water	**Date Received:**	07/06/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMS-ICM, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M62854.D	1	07/08/16	LK	07/06/16	OP95323A	E3M2968
Run #2							

	Initial Volume	Final Volume
Run #1	890 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.033	ug/l	
123-91-1	1,4-Dioxane	ND	0.11	0.055	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		24-125%
321-60-8	2-Fluorobiphenyl	69%		19-127%
1718-51-0	Terphenyl-d14	79%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP4-GWS		
Lab Sample ID:	JC23443-2	**Date Sampled:**	06/30/16
Matrix:	AQ - Ground Water	**Date Received:**	07/06/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMS-ICM, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M62855.D	1	07/08/16	LK	07/06/16	OP95323A	E3M2968
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.033	ug/l	
123-91-1	1,4-Dioxane	ND	0.11	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		24-125%
321-60-8	2-Fluorobiphenyl	71%		19-127%
1718-51-0	Terphenyl-d14	79%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP5-GWD		
Lab Sample ID:	JC23443-3	**Date Sampled:**	07/01/16
Matrix:	AQ - Ground Water	**Date Received:**	07/06/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMS-ICM, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M62856.D	1	07/08/16	LK	07/06/16	OP95323A	E3M2968
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	1.69	0.11	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		24-125%
321-60-8	2-Fluorobiphenyl	72%		19-127%
1718-51-0	Terphenyl-d14	75%		10-119%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP5-GWS		
Lab Sample ID:	JC23443-4	**Date Sampled:**	07/05/16
Matrix:	AQ - Ground Water	**Date Received:**	07/06/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMS-ICM, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M62857.D	1	07/08/16	LK	07/06/16	OP95323A	E3M2968
Run #2	Z112258A.D	1	07/10/16	AC	07/06/16	OP95323A	EZ5607

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2	940 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.031	ug/l	
123-91-1	1,4-Dioxane	33.3 [a]	1.1	0.052	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%	78%	24-125%
321-60-8	2-Fluorobiphenyl	64%	65%	19-127%
1718-51-0	Terphenyl-d14	75%	66%	10-119%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP6-GWD		
Lab Sample ID:	JC23443-5	**Date Sampled:**	07/05/16
Matrix:	AQ - Ground Water	**Date Received:**	07/06/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMS-ICM, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M66661.D	1	07/07/16	JJ	07/06/16	OP95328A	E4M2998
Run #2	P105954.D	1	07/08/16	BP	07/06/16	OP95328A	EP4679

	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2	910 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	5.81 [a]	1.1	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%	95%	24-125%
321-60-8	2-Fluorobiphenyl	45%	89%	19-127%
1718-51-0	Terphenyl-d14	67%	80%	10-119%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

GW

CHAIN OF CUSTODY

PAGE 1 OF 1

NJ

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX. 732-329-3499/3480
www.accutest.com

8098628829 94
8098628829 94

Accutest Quote #

Bottle Order Control #

Accutest Job # JC23443

Client / Reporting Information	Project Information
Company Name: Anderson Mulholland & Associates	Project Name: BMSMC Phase 2A Release Assessment
Street Address: 2700 Westchester Avenue, Suite 417	Street:
City: Purchase State: NY Zip: 10577	City: Humacao State: PR
Project Contact: Terry Taylor E-mail:	Project #: 02i
Phone #: 914-251-0400 Fax #:	Client Purchase Order #:
Sampler(s) Name(s): N. Rivera, R. Stuart, R. O'Reilly, T. Taylor Phone #:	Project Manager: Terry Taylor
	Billing Information (if different from Report to)
	Company Name:
	Street Address:
	City State Zip
	Attention:

Requested Analysis (see TEST CODE sheet): 1,4-Dioxane and Naphthalene via 8270D SIM

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	1,4-Dioxane and Naphthalene via 8270D SIM	LAB USE ONLY
1	OSGP4-GWD		6/30/16	1510	TT	GW	2					2				X	
2	OSGP4-GWS		6/30/16	1715	TT	GW	2					2				X	E76
3	OSGP5-GWD	*	7/1/16	13:45	TT	GW	2					2				X	
4	OSGP5-GWS		7/5/16	1100	TT	GW	2					2				X	
5	OSGP6-GWD		7/5/16	1340	TT	GW	2					2				X	
	~~OSGP~~ DL					~~GW~~	~~2~~					~~2~~				X DL	
						EB											

Turnaround Time (Business days)

- [ ] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [x] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

INITIAL ASESSMENT 3B/BV

LABEL VERIFICATION

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

*Time added in Sm
BV 7/5/16

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/5/16 1200	1 Fed Ex	2 Fed Ex	7/6/16 9:30	2 DL
3		3	4		4
5		5			

Custody Seal # 380,198 [x] Intact [ ] Not intact

Preserved where applicable [ ]

On Ice [x]

Cooler Temp. 4.3°C IRP

5.1 5

JC23443: Chain of Custody
Page 1 of 3

SGS Accutest Sample Receipt Summary

Job Number: JC23443 **Client:** Anderson Mulholland **Project:** BMSMC

Date / Time Received: 7/6/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 809862882994

Cooler Temps (Raw Measured) °C: Cooler 1: (4.3);

Cooler Temps (Corrected) °C: Cooler 1: (5.2);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control _Preservation	Y	or N	N/A
1. Trip Blank present / cooler:	☐	☑	☐
2. Trip Blank listed on COC:	☐	☑	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☐	☐	☑

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☐	☑
3. Condition of sample:	Broken / Leaking	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments

1) -5: Rec'd 1 of 2 8270 volumes broken, limited volume.

5.1

5

JC23443: Chain of Custody

Page 2 of 3

SGS Accutest Sample Receipt Summary

7/6/2016

Problem Note Response: Proceed with analysis

JC23443: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC23443

BMS-ICM, Humacao, PR
Project No: 02I

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC23443-1	Collected: 30-JUN-16 15:10 By: TT		Received: 06-JUL-16 By: DDH			
OSGP4-GWD						
JC23443-1	SW846 8270D BY SIM	08-JUL-16 11:56	LK	06-JUL-16	SZ	B8270SIM14DIOX,BSIM + NAP
JC23443-2	Collected: 30-JUN-16 17:15 By: TT		Received: 06-JUL-16 By: DDH			
OSGP4-GWS						
JC23443-2	SW846 8270D BY SIM	08-JUL-16 12:29	LK	06-JUL-16	SZ	B8270SIM14DIOX,BSIM + NAP
JC23443-3	Collected: 01-JUL-16 13:45 By: TT		Received: 06-JUL-16 By: DDH			
OSGP5-GWD						
JC23443-3	SW846 8270D BY SIM	08-JUL-16 13:02	LK	06-JUL-16	SZ	B8270SIM14DIOX,BSIM + NAP
JC23443-4	Collected: 05-JUL-16 11:00 By: TT		Received: 06-JUL-16 By: DDH			
OSGP5-GWS						
JC23443-4	SW846 8270D BY SIM	08-JUL-16 13:35	LK	06-JUL-16	SZ	BSIM + NAP
JC23443-4	SW846 8270D BY SIM	10-JUL-16 10:58	AC	06-JUL-16	SZ	B8270SIM14DIOX
JC23443-5	Collected: 05-JUL-16 13:40 By: TT		Received: 06-JUL-16 By: DDH			
OSGP6-GWD						
JC23443-5	SW846 8270D BY SIM	07-JUL-16 07:33	JJ	06-JUL-16	SZ	BSIM + NAP
JC23443-5	SW846 8270D BY SIM	08-JUL-16 14:10	BP	06-JUL-16	SZ	B8270SIM14DIOX

SGS Accutest Internal Chain of Custody

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Received: 07/06/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC23443-1.1	Secured Storage	Dwayne Johnson	07/06/16 11:36	Retrieve from Storage
JC23443-1.1	Dwayne Johnson	Secured Staging Area	07/06/16 11:36	Return to Storage
JC23443-1.1	Secured Staging Area	Nicholas Goydish	07/06/16 12:27	Retrieve from Storage
JC23443-1.1	Nicholas Goydish	Secured Storage	07/06/16 14:59	Return to Storage
JC23443-1.2	Secured Storage	Dwayne Johnson	07/06/16 11:36	Retrieve from Storage
JC23443-1.2	Dwayne Johnson	Secured Staging Area	07/06/16 11:36	Return to Storage
JC23443-1.2	Secured Staging Area	Nicholas Goydish	07/06/16 12:27	Retrieve from Storage
JC23443-1.2	Nicholas Goydish		07/06/16 14:59	Depleted
JC23443-1.2.1	Nicholas Goydish	Organics Prep	07/06/16 12:28	Extract from JC23443-1.2
JC23443-1.2.1	Organics Prep	Steven Zarchy	07/06/16 14:41	Extract from JC23443-1.2
JC23443-1.2.1	Steven Zarchy	Extract Storage	07/06/16 14:41	Return to Storage
JC23443-2.1	Secured Storage	Dwayne Johnson	07/06/16 11:36	Retrieve from Storage
JC23443-2.1	Dwayne Johnson	Secured Staging Area	07/06/16 11:36	Return to Storage
JC23443-2.1	Secured Staging Area	Nicholas Goydish	07/06/16 12:27	Retrieve from Storage
JC23443-2.1	Nicholas Goydish		07/06/16 14:59	Depleted
JC23443-2.1.1	Nicholas Goydish	Organics Prep	07/06/16 12:28	Extract from JC23443-2.1
JC23443-2.1.1	Organics Prep	Steven Zarchy	07/06/16 14:41	Extract from JC23443-2.1
JC23443-2.1.1	Steven Zarchy	Extract Storage	07/06/16 14:41	Return to Storage
JC23443-2.2	Secured Storage	Dwayne Johnson	07/06/16 11:36	Retrieve from Storage
JC23443-2.2	Dwayne Johnson	Secured Staging Area	07/06/16 11:36	Return to Storage
JC23443-2.2	Secured Staging Area	Nicholas Goydish	07/06/16 12:27	Retrieve from Storage
JC23443-2.2	Nicholas Goydish	Secured Storage	07/06/16 14:59	Return to Storage
JC23443-3.1	Secured Storage	Dwayne Johnson	07/06/16 11:36	Retrieve from Storage
JC23443-3.1	Dwayne Johnson	Secured Staging Area	07/06/16 11:36	Return to Storage
JC23443-3.1	Secured Staging Area	Nicholas Goydish	07/06/16 12:27	Retrieve from Storage
JC23443-3.1	Nicholas Goydish		07/06/16 14:59	Depleted
JC23443-3.1.1	Nicholas Goydish	Organics Prep	07/06/16 12:28	Extract from JC23443-3.1
JC23443-3.1.1	Organics Prep	Steven Zarchy	07/06/16 14:41	Extract from JC23443-3.1
JC23443-3.1.1	Steven Zarchy	Extract Storage	07/06/16 14:41	Return to Storage
JC23443-4.1	Secured Storage	Dwayne Johnson	07/06/16 11:36	Retrieve from Storage
JC23443-4.1	Dwayne Johnson	Secured Staging Area	07/06/16 11:36	Return to Storage
JC23443-4.1	Secured Staging Area	Nicholas Goydish	07/06/16 12:27	Retrieve from Storage
JC23443-4.1	Nicholas Goydish		07/06/16 14:59	Depleted
JC23443-4.1.1	Nicholas Goydish	Organics Prep	07/06/16 12:28	Extract from JC23443-4.1
JC23443-4.1.1	Organics Prep	Steven Zarchy	07/06/16 14:41	Extract from JC23443-4.1

SGS Accutest Internal Chain of Custody

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Received: 07/06/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC23443-4.1.1	Steven Zarchy	Extract Storage	07/06/16 14:41	Return to Storage
JC23443-5.1	Secured Storage	Dwayne Johnson	07/06/16 11:36	Retrieve from Storage
JC23443-5.1	Dwayne Johnson	Secured Staging Area	07/06/16 11:36	Return to Storage
JC23443-5.1	Secured Staging Area	Nicholas Goydish	07/06/16 12:27	Retrieve from Storage
JC23443-5.1	Nicholas Goydish		07/06/16 14:59	Depleted
JC23443-5.1.1	Nicholas Goydish	Organics Prep	07/06/16 12:27	Extract from JC23443-5.1
JC23443-5.1.1	Organics Prep	Steven Zarchy	07/06/16 14:41	Extract from JC23443-5.1
JC23443-5.1.1	Steven Zarchy	Extract Storage	07/06/16 14:41	Return to Storage
JC23443-5.1.1	Extract Storage	Julius Johnson	07/07/16 00:18	Retrieve from Storage
JC23443-5.1.1	Julius Johnson	GCMS4M	07/07/16 00:18	Load on Instrument
JC23443-5.1.1	GCMS4M	Linsey Kirschmann	07/08/16 15:24	Unload from Instrument
JC23443-5.1.1	Linsey Kirschmann	Extract Freezer	07/08/16 15:24	Return to Storage

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95323A-MB1	3M62853.D	1	07/08/16	LK	07/06/16	OP95323A	E3M2968

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC23443-1, JC23443-2, JC23443-3, JC23443-4

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	ND	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	56%	24-125%
321-60-8	2-Fluorobiphenyl	55%	19-127%
1718-51-0	Terphenyl-d14	64%	10-119%

Method Blank Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95328A-MB1	P105953.D	1	07/08/16	BP	07/06/16	OP95328A	EP4679

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC23443-5

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	ND	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	50%	14-81%
4165-62-2	Phenol-d5	35%	11-54%
118-79-6	2,4,6-Tribromophenol	178%*	35-145%
4165-60-0	Nitrobenzene-d5	117%	24-125%
321-60-8	2-Fluorobiphenyl	120%	19-127%
1718-51-0	Terphenyl-d14	103%	10-119%

Method Blank Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95328A-MB1	4M66742A.D	1	07/09/16	AD	07/06/16	OP95328A	E4M3003

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC23443-5

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	ND	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	49%	14-81%
4165-62-2	Phenol-d5	34%	11-54%
118-79-6	2,4,6-Tribromophenol	71%	35-145%
4165-60-0	Nitrobenzene-d5	86%	24-125%
321-60-8	2-Fluorobiphenyl	96%	19-127%
1718-51-0	Terphenyl-d14	94%	10-119%

Method Blank Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95328A-MB1	4P17752.D	1	07/12/16	AD	07/06/16	OP95328A	E4P944

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC23443-5

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	ND	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	52%	14-81%
4165-62-2	Phenol-d5	31%	11-54%
118-79-6	2,4,6-Tribromophenol	120%	35-145%
4165-60-0	Nitrobenzene-d5	104%	24-125%
321-60-8	2-Fluorobiphenyl	90%	19-127%
1718-51-0	Terphenyl-d14	106%	10-119%

Method Blank Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95323A-MB1	3P55085.D	1	07/13/16	AD	07/06/16	OP95323A	E3P2509

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC23443-1, JC23443-2, JC23443-3, JC23443-4

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	ND	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	55%	24-125%
321-60-8	2-Fluorobiphenyl	50%	19-127%
1718-51-0	Terphenyl-d14	58%	10-119%

Method Blank Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95323A-MB1	4P17784.D	1	07/14/16	AD	07/06/16	OP95323A	E4P946

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC23443-1, JC23443-2, JC23443-3, JC23443-4

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.10	0.029	ug/l	
123-91-1	1,4-Dioxane	ND	0.10	0.049	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	60%	24-125%
321-60-8	2-Fluorobiphenyl	70%	19-127%
1718-51-0	Terphenyl-d14	70%	10-119%

Blank Spike Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95328A-BS12	4M66743.D	1	07/09/16	AD	07/06/16	OP95328A	E4M3003

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC23443-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.806	81	40-119
123-91-1	1,4-Dioxane	1	0.477	48	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	50%	14-81%
4165-62-2	Phenol-d5	36%	11-54%
118-79-6	2,4,6-Tribromophenol	74%	35-145%
4165-60-0	Nitrobenzene-d5	85%	24-125%
321-60-8	2-Fluorobiphenyl	95%	19-127%
1718-51-0	Terphenyl-d14	92%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95323A-BS12	4P17785.D	1	07/14/16	AD	07/06/16	OP95323A	E4P946

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC23443-1, JC23443-2, JC23443-3, JC23443-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.433	43	40-119
123-91-1	1,4-Dioxane	1	0.326	33	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	57%	24-125%
321-60-8	2-Fluorobiphenyl	69%	19-127%
1718-51-0	Terphenyl-d14	73%	10-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95328A-MS	4M66744.D	1	07/09/16	AD	07/06/16	OP95328A	E4M3003
OP95328A-MSD	4M66745.D	1	07/09/16	AD	07/06/16	OP95328A	E4M3003
JC23251-2	4M66756.D	1	07/09/16	AD	07/06/16	OP95328A	E4M3003

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC23443-5

CAS No.	Compound	JC23251-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	ND		2	2.05	87	2	1.87	78	9	23-140/36
123-91-1	1,4-Dioxane	ND		2	1.40	70	2	1.85	93	28	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC23251-2	Limits
367-12-4	2-Fluorophenol	67%	64%		14-81%
4165-62-2	Phenol-d5	56%* [a]	54%		11-54%
118-79-6	2,4,6-Tribromophenol	82%	77%		35-145%
4165-60-0	Nitrobenzene-d5	89%	84%	95%	24-125%
321-60-8	2-Fluorobiphenyl	99%	93%	99%	19-127%
1718-51-0	Terphenyl-d14	96%	85%	98%	10-119%

(a) Outside of in house control limits, but within reasonable method recovery limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95323A-MS	4P17786.D	1	07/14/16	AD	07/06/16	OP95323A	E4P946
OP95323A-MSD	4P17787.D	1	07/14/16	AD	07/06/16	OP95323A	E4P946
JC23294-1	4P17790.D	1	07/14/16	AD	07/06/16	OP95323A	E4P946

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JC23443-1, JC23443-2, JC23443-3, JC23443-4

CAS No.	Compound	JC23294-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	ND		2.11	1.03	49	2.11	1.05	50	2	23-140/36
123-91-1	1,4-Dioxane	3.42		2.11	4.23	38	2.11	4.19	37	1	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC23294-1	Limits
4165-60-0	Nitrobenzene-d5	68%	71%	82%	24-125%
321-60-8	2-Fluorobiphenyl	75%	77%	97%	19-127%
1718-51-0	Terphenyl-d14	82%	80%	106%	10-119%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E3M2942-DFTPP
Lab File ID: 3M62370.D
Instrument ID: GCMS3M
Injection Date: 06/20/16
Injection Time: 18:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	142639	39.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	150640	42.2		Pass
70	Less than 2.0% of mass 69	131	0.04	(0.09) [a]	Pass
127	40.0 - 60.0% of mass 198	172819	48.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	357376	100.0		Pass
199	5.0 - 9.0% of mass 198	24760	6.93		Pass
275	10.0 - 30.0% of mass 198	82808	23.2		Pass
365	1.0 - 100.0% of mass 198	10751	3.01		Pass
441	Present, but less than mass 443	56707	15.9	(81.1) [b]	Pass
442	40.0 - 100.0% of mass 198	352192	98.5		Pass
443	17.0 - 23.0% of mass 442	69907	19.6	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2942-IC2942	3M62371.D	06/20/16	18:49	00:26	Initial cal 0.2
E3M2942-IC2942	3M62372.D	06/20/16	19:23	01:00	Initial cal 0.1
E3M2942-ICC2942	3M62373.D	06/20/16	19:56	01:33	Initial cal 1.0
E3M2942-IC2942	3M62374.D	06/20/16	20:30	02:07	Initial cal 0.5
E3M2942-IC2942	3M62376.D	06/20/16	21:36	03:13	Initial cal 0.02
E3M2942-IC2942	3M62377.D	06/20/16	22:10	03:47	Initial cal 0.01
E3M2942-IC2942	3M62378.D	06/20/16	22:43	04:20	Initial cal 5.0
E3M2942-IC2942	3M62379.D	06/20/16	23:16	04:53	Initial cal 2.5
E3M2942-IC2942	3M62380.D	06/20/16	23:50	05:27	Initial cal 0.05
E3M2942-ICV2942	3M62382.D	06/21/16	00:56	06:33	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E3M2943-DFTPP
Lab File ID: 3M62383.D
Instrument ID: GCMS3M
Injection Date: 06/21/16
Injection Time: 09:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	139176	44.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	143977	45.7		Pass
70	Less than 2.0% of mass 69	932	0.30	(0.65) [a]	Pass
127	40.0 - 60.0% of mass 198	158565	50.3		Pass
197	Less than 1.0% of mass 198	1950	0.62		Pass
198	Base peak, 100% relative abundance	315368	100.0		Pass
199	5.0 - 9.0% of mass 198	21167	6.71		Pass
275	10.0 - 30.0% of mass 198	68458	21.7		Pass
365	1.0 - 100.0% of mass 198	9982	3.17		Pass
441	Present, but less than mass 443	40278	12.8	(86.4) [b]	Pass
442	40.0 - 100.0% of mass 198	257583	81.7		Pass
443	17.0 - 23.0% of mass 442	46645	14.8	(18.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2943-ICV2942	3M62384.D	06/21/16	09:26	00:20	Initial cal verification 1

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E3M2968-DFTPP
Lab File ID: 3M62850.D
Instrument ID: GCMS3M
Injection Date: 07/08/16
Injection Time: 10:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	138200	44.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	145922	47.1		Pass
70	Less than 2.0% of mass 69	201	0.06	(0.14) [a]	Pass
127	40.0 - 60.0% of mass 198	161434	52.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	310104	100.0		Pass
199	5.0 - 9.0% of mass 198	19548	6.30		Pass
275	10.0 - 30.0% of mass 198	73565	23.7		Pass
365	1.0 - 100.0% of mass 198	9333	3.01		Pass
441	Present, but less than mass 443	37967	12.2	(83.8) [b]	Pass
442	40.0 - 100.0% of mass 198	234368	75.6		Pass
443	17.0 - 23.0% of mass 442	45329	14.6	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2968-CC2942	3M62851.D	07/08/16	10:15	00:12	Continuing cal .5
OP95323A-MB1	3M62853.D	07/08/16	11:23	01:20	Method Blank
JC23443-1	3M62854.D	07/08/16	11:56	01:53	OSGP4-GWD
JC23443-2	3M62855.D	07/08/16	12:29	02:26	OSGP4-GWS
JC23443-3	3M62856.D	07/08/16	13:02	02:59	OSGP5-GWD
JC23443-4	3M62857.D	07/08/16	13:35	03:32	OSGP5-GWS
JC22803-1	3M62858.D	07/08/16	14:08	04:05	(used for QC only; not part of job JC23443)

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E3P2503-DFTPP
Lab File ID: 3P54953.D
Instrument ID: GCMS3P
Injection Date: 07/06/16
Injection Time: 09:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	57126	38.2		Pass
68	Less than 2.0% of mass 69	1062	0.71	(1.70) [a]	Pass
69	Mass 69 relative abundance	62449	41.8		Pass
70	Less than 2.0% of mass 69	387	0.26	(0.62) [a]	Pass
127	40.0 - 60.0% of mass 198	72301	48.4		Pass
197	Less than 1.0% of mass 198	1015	0.68		Pass
198	Base peak, 100% relative abundance	149501	100.0		Pass
199	5.0 - 9.0% of mass 198	10162	6.80		Pass
275	10.0 - 30.0% of mass 198	33995	22.7		Pass
365	1.0 - 100.0% of mass 198	4170	2.79		Pass
441	Present, but less than mass 443	16547	11.1	(81.6) [b]	Pass
442	40.0 - 100.0% of mass 198	109091	73.0		Pass
443	17.0 - 23.0% of mass 442	20290	13.6	(18.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3P2503-ICC2503	3P54955.D	07/06/16	10:32	01:20	Initial cal 1.0
E3P2503-IC2503	3P54956.D	07/06/16	11:26	02:14	Initial cal 0.01
E3P2503-IC2503	3P54957.D	07/06/16	11:57	02:45	Initial cal 0.02
E3P2503-IC2503	3P54958.D	07/06/16	12:28	03:16	Initial cal 0.05
E3P2503-IC2503	3P54959.D	07/06/16	12:59	03:47	Initial cal 0.1
E3P2503-IC2503	3P54960.D	07/06/16	13:30	04:18	Initial cal 0.2
E3P2503-IC2503	3P54961.D	07/06/16	14:02	04:50	Initial cal 5
E3P2503-IC2503	3P54962.D	07/06/16	14:33	05:21	Initial cal 2.5
E3P2503-IC2503	3P54963.D	07/06/16	15:04	05:52	Initial cal 0.5
E3P2503-ICV2503	3P54964.D	07/06/16	17:37	08:25	Initial cal verification 1.0
E3P2503-ICV2503	3P54965.D	07/06/16	18:08	08:56	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E3P2509-DFTPP
Lab File ID: 3P55075.D
Instrument ID: GCMS3P
Injection Date: 07/13/16
Injection Time: 09:49

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36615	32.6		Pass
68	Less than 2.0% of mass 69	591	0.53	(1.39) [a]	Pass
69	Mass 69 relative abundance	42454	37.8		Pass
70	Less than 2.0% of mass 69	156	0.14	(0.37) [a]	Pass
127	40.0 - 60.0% of mass 198	52171	46.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	112347	100.0		Pass
199	5.0 - 9.0% of mass 198	7723	6.87		Pass
275	10.0 - 30.0% of mass 198	26449	23.5		Pass
365	1.0 - 100.0% of mass 198	3469	3.09		Pass
441	Present, but less than mass 443	14723	13.1	(76.5) [b]	Pass
442	40.0 - 100.0% of mass 198	101635	90.5		Pass
443	17.0 - 23.0% of mass 442	19258	17.1	(18.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3P2509-CC2503	3P55076.D	07/13/16	10:17	00:28	Continuing cal 0.5
OP95472A-MB1	3P55077.D	07/13/16	10:56	01:07	Method Blank
ZZZZZZ	3P55078.D	07/13/16	11:26	01:37	(unrelated sample)
ZZZZZZ	3P55079.D	07/13/16	11:57	02:08	(unrelated sample)
ZZZZZZ	3P55080.D	07/13/16	12:28	02:39	(unrelated sample)
ZZZZZZ	3P55081.D	07/13/16	12:58	03:09	(unrelated sample)
ZZZZZZ	3P55082.D	07/13/16	13:29	03:40	(unrelated sample)
ZZZZZZ	3P55083.D	07/13/16	14:00	04:11	(unrelated sample)
ZZZZZZ	3P55084.D	07/13/16	14:31	04:42	(unrelated sample)
OP95323A-MB1	3P55085.D	07/13/16	15:02	05:13	Method Blank
ZZZZZZ	3P55086.D	07/13/16	15:32	05:43	(unrelated sample)
ZZZZZZ	3P55087.D	07/13/16	16:03	06:14	(unrelated sample)
ZZZZZZ	3P55088.D	07/13/16	16:33	06:44	(unrelated sample)
ZZZZZZ	3P55089.D	07/13/16	17:04	07:15	(unrelated sample)
ZZZZZZ	3P55090.D	07/13/16	17:35	07:46	(unrelated sample)
ZZZZZZ	3P55091.D	07/13/16	18:05	08:16	(unrelated sample)
ZZZZZZ	3P55092.D	07/13/16	18:36	08:47	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E4M2974-DFTPP
Lab File ID: 4M66179.D
Instrument ID: GCMS4M
Injection Date: 06/20/16
Injection Time: 22:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	58020	41.7		Pass
68	Less than 2.0% of mass 69	561	0.40	(0.91) [a]	Pass
69	Mass 69 relative abundance	61706	44.3		Pass
70	Less than 2.0% of mass 69	274	0.20	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	69656	50.0		Pass
197	Less than 1.0% of mass 198	387	0.28		Pass
198	Base peak, 100% relative abundance	139197	100.0		Pass
199	5.0 - 9.0% of mass 198	9146	6.57		Pass
275	10.0 - 30.0% of mass 198	28704	20.6		Pass
365	1.0 - 100.0% of mass 198	3401	2.44		Pass
441	Present, but less than mass 443	15333	11.0	(76.6) [b]	Pass
442	40.0 - 100.0% of mass 198	101275	72.8		Pass
443	17.0 - 23.0% of mass 442	20015	14.4	(19.8) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M2974-IC2974	4M66181.D	06/20/16	23:01	00:55	Initial cal 0.1
E4M2974-IC2974	4M66182.D	06/20/16	23:31	01:25	Initial cal 0.2
E4M2974-IC2974	4M66183.D	06/21/16	00:01	01:55	Initial cal 0.5
E4M2974-ICC2974	4M66184.D	06/21/16	00:31	02:25	Initial cal 1.0
E4M2974-IC2974	4M66185.D	06/21/16	01:01	02:55	Initial cal 0.05
E4M2974-IC2974	4M66186.D	06/21/16	01:31	03:25	Initial cal 0.02
E4M2974-IC2974	4M66187.D	06/21/16	02:01	03:55	Initial cal 0.01
E4M2974-IC2974	4M66188.D	06/21/16	02:31	04:25	Initial cal 5.0
E4M2974-IC2974	4M66189.D	06/21/16	03:01	04:55	Initial cal 2.5
E4M2974-ICV2974	4M66190.D	06/21/16	03:30	05:24	Initial cal verification 1.0
E4M2974-ICV2974	4M66191.D	06/21/16	04:00	05:54	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E4M2998-DFTPP
Lab File ID: 4M66645.D
Instrument ID: GCMS4M
Injection Date: 07/06/16
Injection Time: 22:10

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	26261	47.6		Pass
68	Less than 2.0% of mass 69	141	0.26	(0.46) [a]	Pass
69	Mass 69 relative abundance	30910	56.0		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	30541	55.4		Pass
197	Less than 1.0% of mass 198	254	0.46		Pass
198	Base peak, 100% relative abundance	55160	100.0		Pass
199	5.0 - 9.0% of mass 198	3498	6.34		Pass
275	10.0 - 30.0% of mass 198	12020	21.8		Pass
365	1.0 - 100.0% of mass 198	1709	3.10		Pass
441	Present, but less than mass 443	7191	13.0	(81.5) [b]	Pass
442	40.0 - 100.0% of mass 198	46048	83.5		Pass
443	17.0 - 23.0% of mass 442	8824	16.0	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M2998-CC2974	4M66646.D	07/06/16	22:35	00:25	Continuing cal 1.0
OP94535A-MB1	4M66662.D	07/07/16	00:31	02:21	Method Blank
OP94536A-MB1	4M66662.D	07/07/16	00:31	02:21	Method Blank
OP94535A-BS12	4M66649.D	07/07/16	01:01	02:51	Blank Spike
OP94535A-BSD12	4M66650.D	07/07/16	01:32	03:22	Blank Spike Duplicate
ZZZZZZ	4M66651.D	07/07/16	02:02	03:52	(unrelated sample)
ZZZZZZ	4M66652.D	07/07/16	02:32	04:22	(unrelated sample)
ZZZZZZ	4M66653.D	07/07/16	03:02	04:52	(unrelated sample)
JC23443-5	4M66661.D	07/07/16	07:33	09:23	OSGP6-GWD

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E4M3003-DFTPP
Lab File ID: 4M66740.D
Instrument ID: GCMS4M
Injection Date: 07/09/16
Injection Time: 12:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	18222	44.0		Pass
68	Less than 2.0% of mass 69	106	0.26	(0.48) [a]	Pass
69	Mass 69 relative abundance	21903	52.8		Pass
70	Less than 2.0% of mass 69	68	0.16	(0.31) [a]	Pass
127	40.0 - 60.0% of mass 198	21088	50.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	41445	100.0		Pass
199	5.0 - 9.0% of mass 198	2596	6.26		Pass
275	10.0 - 30.0% of mass 198	9785	23.6		Pass
365	1.0 - 100.0% of mass 198	1392	3.36		Pass
441	Present, but less than mass 443	5934	14.3	(91.3) [b]	Pass
442	40.0 - 100.0% of mass 198	37344	90.1		Pass
443	17.0 - 23.0% of mass 442	6496	15.7	(17.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M3003-CC2974	4M66741.D	07/09/16	12:23	00:10	Continuing cal 0.5
OP95328A-BS12	4M66743.D	07/09/16	13:26	01:13	Blank Spike
OP95328A-MB1	4M66742A.D	07/09/16	13:56	01:43	Method Blank
OP95328A-MS	4M66744.D	07/09/16	14:25	02:12	Matrix Spike
OP95328A-MSD	4M66745.D	07/09/16	14:55	02:42	Matrix Spike Duplicate
OP95394A-MB1	4M66746.D	07/09/16	15:24	03:11	Method Blank
ZZZZZZ	4M66748.D	07/09/16	16:24	04:11	(unrelated sample)
ZZZZZZ	4M66749.D	07/09/16	16:53	04:40	(unrelated sample)
ZZZZZZ	4M66750.D	07/09/16	17:23	05:10	(unrelated sample)
ZZZZZZ	4M66751.D	07/09/16	17:52	05:39	(unrelated sample)
ZZZZZZ	4M66752.D	07/09/16	18:22	06:09	(unrelated sample)
ZZZZZZ	4M66753.D	07/09/16	18:52	06:39	(unrelated sample)
ZZZZZZ	4M66754.D	07/09/16	19:21	07:08	(unrelated sample)
ZZZZZZ	4M66755.D	07/09/16	19:51	07:38	(unrelated sample)
JC23251-2	4M66756.D	07/09/16	20:20	08:07	(used for QC only; not part of job JC23443)
ZZZZZZ	4M66757.D	07/09/16	20:50	08:37	(unrelated sample)
ZZZZZZ	4M66758.D	07/09/16	21:19	09:06	(unrelated sample)
ZZZZZZ	4M66759.D	07/09/16	21:49	09:36	(unrelated sample)
ZZZZZZ	4M66760.D	07/09/16	22:18	10:05	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample:	E4M3003-DFTPP	**Injection Date:**	07/09/16
Lab File ID:	4M66740.D	**Injection Time:**	12:13
Instrument ID:	GCMS4M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	4M66761.D	07/09/16	22:48	10:35	(unrelated sample)
ZZZZZZ	4M66762.D	07/09/16	23:18	11:05	(unrelated sample)
ZZZZZZ	4M66763.D	07/09/16	23:47	11:34	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E4P887-DFTPP
Lab File ID: 4P16668.D
Instrument ID: GCMS4P
Injection Date: 06/06/16
Injection Time: 09:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	65770	46.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	75046	52.9		Pass
70	Less than 2.0% of mass 69	350	0.25	(0.47) [a]	Pass
127	40.0 - 60.0% of mass 198	74929	52.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	141872	100.0		Pass
199	5.0 - 9.0% of mass 198	9305	6.56		Pass
275	10.0 - 30.0% of mass 198	26127	18.4		Pass
365	1.0 - 100.0% of mass 198	2425	1.71		Pass
441	Present, but less than mass 443	12236	8.62	(83.1) [b]	Pass
442	40.0 - 100.0% of mass 198	79101	55.8		Pass
443	17.0 - 23.0% of mass 442	14730	10.4	(18.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4P887-IC887	4P16669.D	06/06/16	10:09	00:12	Initial cal .5
E4P887-ICC887	4P16670.D	06/06/16	10:50	00:53	Initial cal 1
E4P887-IC887	4P16671.D	06/06/16	11:20	01:23	Initial cal .2
E4P887-IC887	4P16672.D	06/06/16	11:50	01:53	Initial cal .1
E4P887-IC887	4P16673.D	06/06/16	12:19	02:22	Initial cal .05
E4P887-IC887	4P16674.D	06/06/16	12:49	02:52	Initial cal .02
E4P887-IC887	4P16675.D	06/06/16	13:19	03:22	Initial cal .01
E4P887-IC887	4P16676.D	06/06/16	13:49	03:52	Initial cal 5
E4P887-IC887	4P16677.D	06/06/16	14:19	04:22	Initial cal 2.5
E4P887-ICV887	4P16678.D	06/06/16	14:49	04:52	Initial cal verification 1
E4P887-ICV887	4P16679.D	06/06/16	15:19	05:22	Initial cal verification 1

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E4P944-DFTPP
Lab File ID: 4P17734.D
Instrument ID: GCMS4P
Injection Date: 07/12/16
Injection Time: 12:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	135686	38.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	156326	44.1		Pass
70	Less than 2.0% of mass 69	416	0.12	(0.27) [a]	Pass
127	40.0 - 60.0% of mass 198	164058	46.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	354666	100.0		Pass
199	5.0 - 9.0% of mass 198	22578	6.37		Pass
275	10.0 - 30.0% of mass 198	78629	22.2		Pass
365	1.0 - 100.0% of mass 198	7157	2.02		Pass
441	Present, but less than mass 443	43352	12.2	(83.2) [b]	Pass
442	40.0 - 100.0% of mass 198	285426	80.5		Pass
443	17.0 - 23.0% of mass 442	52117	14.7	(18.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4P944-CC887	4P17735.D	07/12/16	12:21	00:16	Continuing cal 0.5
ZZZZZZ	4P17738.D	07/12/16	13:48	01:43	(unrelated sample)
ZZZZZZ	4P17741.D	07/12/16	15:13	03:08	(unrelated sample)
JC23326-5	4P17742.D	07/12/16	15:41	03:36	(used for QC only; not part of job JC23443)
OP95361A-MS	4P17743.D	07/12/16	16:09	04:04	Matrix Spike
OP95361A-MSD	4P17744.D	07/12/16	16:37	04:32	Matrix Spike Duplicate
ZZZZZZ	4P17745.D	07/12/16	17:06	05:01	(unrelated sample)
JC23215-3	4P17746.D	07/12/16	17:34	05:29	(used for QC only; not part of job JC23443)
ZZZZZZ	4P17747.D	07/12/16	18:02	05:57	(unrelated sample)
OP95276A-MS	4P17748.D	07/12/16	18:30	06:25	Matrix Spike
OP95256A-MS	4P17749.D	07/12/16	18:59	06:54	Matrix Spike
ZZZZZZ	4P17750.D	07/12/16	19:27	07:22	(unrelated sample)
ZZZZZZ	4P17751.D	07/12/16	19:55	07:50	(unrelated sample)
OP95328A-MB1	4P17752.D	07/12/16	20:23	08:18	Method Blank
ZZZZZZ	4P17753.D	07/12/16	20:51	08:46	(unrelated sample)
ZZZZZZ	4P17754.D	07/12/16	21:20	09:15	(unrelated sample)
ZZZZZZ	4P17755.D	07/12/16	21:48	09:43	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E4P946-DFTPP
Lab File ID: 4P17768.D
Instrument ID: GCMS4P
Injection Date: 07/13/16
Injection Time: 17:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	100914	41.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	114936	46.9		Pass
70	Less than 2.0% of mass 69	859	0.35	(0.75) [a]	Pass
127	40.0 - 60.0% of mass 198	121266	49.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	245302	100.0		Pass
199	5.0 - 9.0% of mass 198	16055	6.54		Pass
275	10.0 - 30.0% of mass 198	51013	20.8		Pass
365	1.0 - 100.0% of mass 198	4883	1.99		Pass
441	Present, but less than mass 443	16587	6.76	(49.5) [b]	Pass
442	40.0 - 100.0% of mass 198	163170	66.5		Pass
443	17.0 - 23.0% of mass 442	33499	13.7	(20.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4P946-CC887	4P17769.D	07/13/16	17:16	00:12	Continuing cal 0.5
OP95345A-MB1	4P17772.D	07/13/16	18:40	01:36	Method Blank
OP95345A-BS12	4P17773.D	07/13/16	19:08	02:04	Blank Spike
ZZZZZZ	4P17774.D	07/13/16	19:37	02:33	(unrelated sample)
ZZZZZZ	4P17775.D	07/13/16	20:05	03:01	(unrelated sample)
ZZZZZZ	4P17777.D	07/13/16	21:01	03:57	(unrelated sample)
ZZZZZZ	4P17778.D	07/13/16	21:30	04:26	(unrelated sample)
OP95376A-MB1	4P17779.D	07/13/16	21:58	04:54	Method Blank
OP95376A-BS12	4P17780.D	07/13/16	22:26	05:22	Blank Spike
JC23491-1	4P17781.D	07/13/16	22:54	05:50	(used for QC only; not part of job JC23443)
OP95376A-MS	4P17782.D	07/13/16	23:22	06:18	Matrix Spike
OP95376A-MSD	4P17783.D	07/13/16	23:51	06:47	Matrix Spike Duplicate
OP95323A-MB1	4P17784.D	07/14/16	00:19	07:15	Method Blank
OP95323A-BS12	4P17785.D	07/14/16	00:47	07:43	Blank Spike
OP95323A-MS	4P17786.D	07/14/16	01:15	08:11	Matrix Spike
OP95323A-MSD	4P17787.D	07/14/16	01:43	08:39	Matrix Spike Duplicate
ZZZZZZ	4P17788.D	07/14/16	02:11	09:07	(unrelated sample)
ZZZZZZ	4P17789.D	07/14/16	02:39	09:35	(unrelated sample)
JC23294-1	4P17790.D	07/14/16	03:07	10:03	(used for QC only; not part of job JC23443)

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EP4667-DFTPP
Lab File ID: P105687.D
Instrument ID: GCMSP
Injection Date: 06/28/16
Injection Time: 10:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	16229	37.7		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	17304	40.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	19802	45.9		Pass
197	Less than 1.0% of mass 198	153	0.36		Pass
198	Base peak, 100% relative abundance	43098	100.0		Pass
199	5.0 - 9.0% of mass 198	3067	7.12		Pass
275	10.0 - 30.0% of mass 198	7778	18.0		Pass
365	1.0 - 100.0% of mass 198	1014	2.35		Pass
441	Present, but less than mass 443	3416	7.93	(78.9) [b]	Pass
442	40.0 - 100.0% of mass 198	20666	48.0		Pass
443	17.0 - 23.0% of mass 442	4332	10.1	(21.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4667-IC4667	P105688.D	06/28/16	11:19	01:00	Initial cal 1
EP4667-IC4667	P105695.D	06/28/16	11:47	01:28	Initial cal 100
EP4667-IC4667	P105689.D	06/28/16	12:16	01:57	Initial cal 2
EP4667-IC4667	P105690.D	06/28/16	12:45	02:26	Initial cal 5
EP4667-IC4667	P105691.D	06/28/16	13:14	02:55	Initial cal 10
EP4667-IC4667	P105692.D	06/28/16	13:43	03:24	Initial cal 25
EP4667-ICC4667	P105693.D	06/28/16	14:18	03:59	Initial cal 50
EP4667-IC4667	P105694.D	06/28/16	14:47	04:28	Initial cal 80

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EP4668-DFTPP
Lab File ID: P105696.D
Instrument ID: GCMSP
Injection Date: 06/28/16
Injection Time: 18:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	19412	41.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	20024	43.1		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	23806	51.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	46466	100.0		Pass
199	5.0 - 9.0% of mass 198	3201	6.89		Pass
275	10.0 - 30.0% of mass 198	8837	19.0		Pass
365	1.0 - 100.0% of mass 198	966	2.08		Pass
441	Present, but less than mass 443	3328	7.16	(74.7) [b]	Pass
442	40.0 - 100.0% of mass 198	21805	46.9		Pass
443	17.0 - 23.0% of mass 442	4453	9.58	(20.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4668-IC4668	P105697.D	06/28/16	19:00	00:13	Initial cal 100
EP4668-IC4668	P105698.D	06/28/16	19:29	00:42	Initial cal 80
EP4668-ICC4668	P105699.D	06/28/16	19:58	01:11	Initial cal 50
EP4668-IC4668	P105700.D	06/28/16	20:28	01:41	Initial cal 25
EP4668-IC4668	P105701.D	06/28/16	20:57	02:10	Initial cal 10
EP4668-IC4668	P105702.D	06/28/16	21:26	02:39	Initial cal 5
EP4668-IC4668	P105703.D	06/28/16	21:56	03:09	Initial cal 2
EP4668-IC4668	P105704.D	06/28/16	22:25	03:38	Initial cal 1
EP4668-ICV4667	P105705.D	06/28/16	22:54	04:07	Initial cal verification 50
EP4668-ICV4667	P105707.D	06/28/16	23:52	05:05	Initial cal verification 50
EP4668-ICV4667	P105708.D	06/29/16	00:21	05:34	Initial cal verification 50
EP4668-ICV4668	P105709A.D	06/29/16	00:50	06:03	Initial cal verification 50
EP4668-ICV4667	P105709.D	06/29/16	00:50	06:03	Initial cal verification 50
EP4668-ICV4668	P105711.D	06/29/16	01:48	07:01	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EP4669-DFTPP
Lab File ID: P105713.D
Instrument ID: GCMSP
Injection Date: 06/29/16
Injection Time: 10:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	19146	40.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	19822	41.4		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	23765	49.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	47872	100.0		Pass
199	5.0 - 9.0% of mass 198	3329	6.95		Pass
275	10.0 - 30.0% of mass 198	9496	19.8		Pass
365	1.0 - 100.0% of mass 198	1152	2.41		Pass
441	Present, but less than mass 443	4221	8.82	(74.8) [b]	Pass
442	40.0 - 100.0% of mass 198	26504	55.4		Pass
443	17.0 - 23.0% of mass 442	5641	11.8	(21.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4669-ICV4667	P105714.D	06/29/16	11:15	00:16	Initial cal verification 50
EP4669-ICV4668	P105715A.D	06/29/16	11:50	00:51	Initial cal verification 50
EP4669-ICV4667	P105715.D	06/29/16	11:50	00:51	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EP4679-DFTPP
Lab File ID: P105949.D
Instrument ID: GCMSP
Injection Date: 07/08/16
Injection Time: 10:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	52624	45.7		Pass
68	Less than 2.0% of mass 69	679	0.59	(1.29) [a]	Pass
69	Mass 69 relative abundance	52474	45.5		Pass
70	Less than 2.0% of mass 69	176	0.15	(0.34) [a]	Pass
127	40.0 - 60.0% of mass 198	58669	50.9		Pass
197	Less than 1.0% of mass 198	211	0.18		Pass
198	Base peak, 100% relative abundance	115240	100.0		Pass
199	5.0 - 9.0% of mass 198	7639	6.63		Pass
275	10.0 - 30.0% of mass 198	26358	22.9		Pass
365	1.0 - 100.0% of mass 198	3563	3.09		Pass
441	Present, but less than mass 443	10672	9.26	(79.3) [b]	Pass
442	40.0 - 100.0% of mass 198	66328	57.6		Pass
443	17.0 - 23.0% of mass 442	13450	11.7	(20.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4679-CC4667	P105950.D	07/08/16	11:18	00:26	Continuing cal 25
ZZZZZZ	P105952.D	07/08/16	13:01	02:09	(unrelated sample)
OP95328A-MB1	P105953.D	07/08/16	13:35	02:43	Method Blank
JC23443-5	P105954.D	07/08/16	14:10	03:18	OSGP6-GWD

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EZ5571-DFTPP
Lab File ID: Z111535.D
Instrument ID: GCMSZ
Injection Date: 06/14/16
Injection Time: 16:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	29438	34.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	39510	45.6		Pass
70	Less than 2.0% of mass 69	349	0.40	(0.88) [a]	Pass
127	40.0 - 60.0% of mass 198	44444	51.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	86608	100.0		Pass
199	5.0 - 9.0% of mass 198	5940	6.86		Pass
275	10.0 - 30.0% of mass 198	22498	26.0		Pass
365	1.0 - 100.0% of mass 198	2415	2.79		Pass
441	Present, but less than mass 443	7599	8.77	(79.4) [b]	Pass
442	40.0 - 100.0% of mass 198	51104	59.0		Pass
443	17.0 - 23.0% of mass 442	9567	11.0	(18.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ5571-IC5571	Z111536.D	06/14/16	17:00	00:15	Initial cal 100
EZ5571-IC5571	Z111537.D	06/14/16	17:31	00:46	Initial cal 80
EZ5571-ICC5571	Z111538.D	06/14/16	18:00	01:15	Initial cal 50
EZ5571-IC5571	Z111539.D	06/14/16	18:30	01:45	Initial cal 25
EZ5571-IC5571	Z111540.D	06/14/16	19:00	02:15	Initial cal 10
EZ5571-IC5571	Z111541.D	06/14/16	19:30	02:45	Initial cal 5
EZ5571-IC5571	Z111542.D	06/14/16	20:00	03:15	Initial cal 2
EZ5571-IC5571	Z111543.D	06/14/16	20:30	03:45	Initial cal 1

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EZ5573-DFTPP
Lab File ID: Z111544.D
Instrument ID: GCMSZ
Injection Date: 06/15/16
Injection Time: 08:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	38028	36.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	51339	48.8		Pass
70	Less than 2.0% of mass 69	263	0.25	(0.51) [a]	Pass
127	40.0 - 60.0% of mass 198	55433	52.7		Pass
197	Less than 1.0% of mass 198	715	0.68		Pass
198	Base peak, 100% relative abundance	105096	100.0		Pass
199	5.0 - 9.0% of mass 198	7180	6.83		Pass
275	10.0 - 30.0% of mass 198	26557	25.3		Pass
365	1.0 - 100.0% of mass 198	2862	2.72		Pass
441	Present, but less than mass 443	9512	9.05	(79.5) [b]	Pass
442	40.0 - 100.0% of mass 198	62213	59.2		Pass
443	17.0 - 23.0% of mass 442	11967	11.4	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ5573-IC5573	Z111545.D	06/15/16	08:19	00:15	Initial cal 100
EZ5573-IC5573	Z111546.D	06/15/16	08:48	00:44	Initial cal 80
EZ5573-ICC5573	Z111547.D	06/15/16	09:17	01:13	Initial cal 50
EZ5573-IC5573	Z111548.D	06/15/16	09:47	01:43	Initial cal 25
EZ5573-IC5573	Z111549.D	06/15/16	10:16	02:12	Initial cal 10
EZ5573-IC5573	Z111550.D	06/15/16	10:46	02:42	Initial cal 5
EZ5573-IC5573	Z111551.D	06/15/16	11:16	03:12	Initial cal 2
EZ5573-IC5573	Z111552.D	06/15/16	11:46	03:42	Initial cal 1
EZ5573-ICV5571	Z111554.D	06/15/16	12:45	04:41	Initial cal verification 50
EZ5573-ICV5571	Z111555.D	06/15/16	13:15	05:11	Initial cal verification 50
EZ5573-ICV5571	Z111558.D	06/15/16	14:44	06:40	Initial cal verification 50
EZ5573-ICV5573	Z111559.D	06/15/16	15:14	07:10	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EZ5574-DFTPP
Lab File ID: Z111560.D
Instrument ID: GCMSZ
Injection Date: 06/15/16
Injection Time: 16:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	34192	35.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	46850	48.5		Pass
70	Less than 2.0% of mass 69	93	0.10	(0.20) [a]	Pass
127	40.0 - 60.0% of mass 198	50554	52.3		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	96581	100.0		Pass
199	5.0 - 9.0% of mass 198	6659	6.89		Pass
275	10.0 - 30.0% of mass 198	23571	24.4		Pass
365	1.0 - 100.0% of mass 198	2533	2.62		Pass
441	Present, but less than mass 443	8159	8.45	(79.6) [b]	Pass
442	40.0 - 100.0% of mass 198	55053	57.0		Pass
443	17.0 - 23.0% of mass 442	10251	10.6	(18.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ5574-ICV5571	Z111561.D	06/15/16	17:03	00:22	Initial cal verification 50
EZ5574-ICV5573	Z111562A.D	06/15/16	17:33	00:52	Initial cal verification 50
EZ5574-ICV5571	Z111562.D	06/15/16	17:33	00:52	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EZ5575-DFTPP
Lab File ID: Z111564.D
Instrument ID: GCMSZ
Injection Date: 06/16/16
Injection Time: 08:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	39674	39.0		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	54481	53.6		Pass
70	Less than 2.0% of mass 69	390	0.38	(0.72) [a]	Pass
127	40.0 - 60.0% of mass 198	55762	54.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	101696	100.0		Pass
199	5.0 - 9.0% of mass 198	6677	6.57		Pass
275	10.0 - 30.0% of mass 198	24415	24.0		Pass
365	1.0 - 100.0% of mass 198	2399	2.36		Pass
441	Present, but less than mass 443	8454	8.31	(86.2) [b]	Pass
442	40.0 - 100.0% of mass 198	52888	52.0		Pass
443	17.0 - 23.0% of mass 442	9807	9.64	(18.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ5575-ICV5571	Z111565.D	06/16/16	08:58	00:17	Initial cal verification 50
EZ5575-ICV5573	Z111565A.D	06/16/16	08:58	00:17	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EZ5607-DFTPP
Lab File ID: Z112254.D
Instrument ID: GCMSZ
Injection Date: 07/10/16
Injection Time: 08:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	39207	34.7		Pass
68	Less than 2.0% of mass 69	168	0.15	(0.31) [a]	Pass
69	Mass 69 relative abundance	53486	47.3		Pass
70	Less than 2.0% of mass 69	447	0.40	(0.84) [a]	Pass
127	40.0 - 60.0% of mass 198	57681	51.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	113074	100.0		Pass
199	5.0 - 9.0% of mass 198	7126	6.30		Pass
275	10.0 - 30.0% of mass 198	24958	22.1		Pass
365	1.0 - 100.0% of mass 198	2672	2.36		Pass
441	Present, but less than mass 443	7219	6.38	(74.2) [b]	Pass
442	40.0 - 100.0% of mass 198	49573	43.8		Pass
443	17.0 - 23.0% of mass 442	9726	8.60	(19.6) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ5607-CC5571	Z112255.D	07/10/16	08:57	00:16	Continuing cal 50
EZ5607-CC5573	Z112256.D	07/10/16	09:26	00:45	Continuing cal 50
OP95383-MB1	Z112259.D	07/10/16	10:29	01:48	Method Blank
JC23443-4	Z112258A.D	07/10/16	10:58	02:17	OSGP5-GWS
ZZZZZZ	Z112260.D	07/10/16	11:27	02:46	(unrelated sample)
ZZZZZZ	Z112261.D	07/10/16	11:56	03:15	(unrelated sample)
ZZZZZZ	Z112262.D	07/10/16	12:26	03:45	(unrelated sample)
ZZZZZZ	Z112273.D	07/10/16	12:55	04:14	(unrelated sample)
ZZZZZZ	Z112263.D	07/10/16	13:24	04:43	(unrelated sample)
ZZZZZZ	Z112264.D	07/10/16	13:54	05:13	(unrelated sample)
ZZZZZZ	Z112265.D	07/10/16	14:23	05:42	(unrelated sample)
ZZZZZZ	Z112266.D	07/10/16	14:53	06:12	(unrelated sample)
ZZZZZZ	Z112267.D	07/10/16	15:22	06:41	(unrelated sample)
ZZZZZZ	Z112268.D	07/10/16	15:51	07:10	(unrelated sample)
ZZZZZZ	Z112269.D	07/10/16	16:21	07:40	(unrelated sample)
ZZZZZZ	Z112270.D	07/10/16	16:50	08:09	(unrelated sample)
ZZZZZZ	Z112271.D	07/10/16	17:20	08:39	(unrelated sample)
ZZZZZZ	Z112272.D	07/10/16	17:49	09:08	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	E3M2968-CC2942	**Injection Date:**	07/08/16
Lab File ID:	3M62851.D	**Injection Time:**	10:15
Instrument ID:	GCMS3M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	511292	10.66	761790	13.67	1248053	17.87	1080276	22.47
Upper Limit [a]	1022584	11.16	1523580	14.17	2496106	18.37	2160552	22.97
Lower Limit [b]	255646	10.16	380895	13.17	624027	17.37	540138	21.97

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95323A-MB1	684759	10.66	1032056	13.67	1582944	17.87	1331595	22.47
JC23443-1	565223	10.66	817754	13.67	1308446	17.87	1106731	22.47
JC23443-2	573293	10.66	817206	13.67	1302887	17.87	1113793	22.47
JC23443-3	568722	10.66	825900	13.67	1354816	17.87	1138860	22.47
JC23443-4	529376	10.66	772887	13.67	1229674	17.87	1056144	22.47
JC22803-1	476887	10.66	670426	13.67	1074737	17.87	837236	22.47

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	E3P2509-CC2503	**Injection Date:**	07/13/16
Lab File ID:	3P55076.D	**Injection Time:**	10:17
Instrument ID:	GCMS3P	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	72870	11.02	97297	14.00	140257	18.16	91158	22.72
Upper Limit [a]	145740	11.52	194594	14.50	280514	18.66	182316	23.22
Lower Limit [b]	36435	10.52	48649	13.50	70129	17.66	45579	22.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95472A-MB1	78249	11.02	93435	14.00	141146	18.16	97479	22.72
ZZZZZZ	62434	11.02	76509	14.00	103243	18.16	79428	22.72
ZZZZZZ	64907	11.02	77074	14.00	105811	18.16	68128	22.72
ZZZZZZ	69932	11.02	83738	14.00	109891	18.16	65905	22.72
ZZZZZZ	59181	11.02	70010	14.00	90409	18.16	76569	22.72
ZZZZZZ	60424	11.02	69453	14.00	94089	18.16	59064	22.72
ZZZZZZ	59124	11.02	70770	14.00	90237	18.16	55804	22.72
ZZZZZZ	60010	11.02	70768	14.00	89580	18.16	67882	22.72
OP95323A-MB1	88648	11.02	116744	14.00	146284	18.16	90076	22.72
ZZZZZZ	68267	11.02	81875	14.00	109411	18.16	69482	22.72
ZZZZZZ	68196	11.02	82922	14.00	113749	18.16	73876	22.72
ZZZZZZ	69390	11.02	84375	14.00	113694	18.16	76877	22.72
ZZZZZZ	72619	11.02	94384	14.00	134480	18.16	101841	22.72
ZZZZZZ	76788	11.02	91177	14.00	118414	18.16	82041	22.72
ZZZZZZ	78463	11.02	93787	14.00	127110	18.16	66566	22.72
ZZZZZZ	64046	11.02	87579	14.00	118051	18.16	85338	22.72

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	E4M2998-CC2974	**Injection Date:**	07/06/16
Lab File ID:	4M66646.D	**Injection Time:**	22:35
Instrument ID:	GCMS4M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	48573	9.69	59092	12.67	126723	16.86	105162	21.46
Upper Limit [a]	97146	10.19	118184	13.17	253446	17.36	210324	21.96
Lower Limit [b]	24287	9.19	29546	12.17	63362	16.36	52581	20.96

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94535A-MB1	43230	9.69	50569	12.67	106917	16.86	88122	21.46
OP94536A-MB1	43230	9.69	50569	12.67	106917	16.86	88122	21.46
OP94535A-BS12	43351	9.69	49010	12.67	105107	16.86	86532	21.46
OP94535A-BSD12	45588	9.69	51708	12.67	113934	16.86	92382	21.46
ZZZZZZ	43839	9.69	48647	12.67	110050	16.86	88081	21.46
ZZZZZZ	43170	9.69	47725	12.67	106894	16.86	85042	21.46
ZZZZZZ	48323	9.69	52622	12.67	114791	16.86	93464	21.46
JC23443-5	46165	9.69	50486	12.67	119808	16.86	90428	21.46

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	E4M3003-CC2974	**Injection Date:**	07/09/16
Lab File ID:	4M66741.D	**Injection Time:**	12:23
Instrument ID:	GCMS4M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	33420	9.67	62873	12.64	110699	16.83	89278	21.42
Upper Limit [a]	66840	10.17	125746	13.14	221398	17.33	178556	21.92
Lower Limit [b]	16710	9.17	31437	12.14	55350	16.33	44639	20.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95328A-BS12	36857	9.67	64808	12.64	108325	16.83	89665	21.42
OP95328A-MB1	36036	9.64	61003	12.64	102292	16.83	85842	21.42
OP95328A-MS	31493	9.64	53755	12.64	92329	16.83	75048	21.41
OP95328A-MSD	34773	9.64	60241	12.64	103799	16.83	84960	21.41
OP95394A-MB1	33803	9.67	56716	12.64	101714	16.83	83371	21.41
ZZZZZZ	23058	9.64	40750	12.64	69466	16.83	56121	21.41
ZZZZZZ	27826	9.64	46019	12.64	82168	16.83	65745	21.42
ZZZZZZ	27111	9.64	42920	12.64	77468	16.83	63506	21.42
ZZZZZZ	28702	9.64	46745	12.64	85211	16.83	68841	21.42
ZZZZZZ	22126	9.64	34735	12.64	61128	16.83	51275	21.41
ZZZZZZ	28301	9.64	49322	12.64	86449	16.83	73360	21.41
ZZZZZZ	26031	9.64	41895	12.64	76393	16.83	59872	21.42
ZZZZZZ	24613	9.64	41077	12.64	71510	16.83	57903	21.41
JC23251-2	25882	9.64	44005	12.64	76027	16.83	60809	21.41
ZZZZZZ	26670	9.64	45313	12.64	79034	16.83	62608	21.41
ZZZZZZ	26186	9.64	41960	12.64	72925	16.83	59541	21.41
ZZZZZZ	22946	9.64	39215	12.64	70098	16.83	55732	21.41
ZZZZZZ	30209	9.64	49295	12.64	87467	16.83	72710	21.41
ZZZZZZ	28473	9.64	46146	12.64	78600	16.83	66018	21.41
ZZZZZZ	23223	9.64	38092	12.64	69840	16.83	56284	21.41
ZZZZZZ	27603	9.64	42020	12.64	73308	16.83	63962	21.41

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	E4P944-CC887	**Injection Date:**	07/12/16
Lab File ID:	4P17735.D	**Injection Time:**	12:21
Instrument ID:	GCMS4P	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	139417	7.27	170257	10.19	288537	14.42	191696	19.08
Upper Limit [a]	278834	7.77	340514	10.69	577074	14.92	383392	19.58
Lower Limit [b]	69709	6.77	85129	9.69	144269	13.92	95848	18.58

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	106015	7.27	143422	10.21	184068	14.47	175850	19.08
ZZZZZZ	123182	7.27	149659	10.19	252476	14.40	163056	19.08
JC23326-5	126654	7.27	144065	10.19	243505	14.40	165304	19.07
OP95361A-MS	123992	7.27	145152	10.19	239439	14.41	153729	19.08
OP95361A-MSD	127050	7.27	151665	10.19	241582	14.41	157401	19.08
ZZZZZZ	117345	7.27	132036	10.19	220803	14.41	133876	19.07
JC23215-3	120666	7.27	147742	10.19	243590	14.41	158956	19.07
ZZZZZZ	112659	7.27	129621	10.19	232996	14.40	153309	19.07
OP95276A-MS	124556	7.27	152673	10.19	251227	14.40	168558	19.07
OP95256A-MS	126626	7.27	152460	10.19	240036	14.41	158010	19.07
ZZZZZZ	123693	7.27	144306	10.19	254317	14.41	158939	19.08
ZZZZZZ	123477	7.27	139531	10.19	239995	14.41	158558	19.07
OP95328A-MB1	127966	7.27	151280	10.19	259243	14.40	166781	19.07
ZZZZZZ	114603	7.27	143259	10.19	246826	14.40	162436	19.07
ZZZZZZ	207624	7.27	335446	10.19	575365	14.40	312172	19.07
ZZZZZZ	212018	7.27	335179	10.19	568482	14.41	297032	19.06

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	E4P946-CC887	**Injection Date:**	07/13/16
Lab File ID:	4P17769.D	**Injection Time:**	17:16
Instrument ID:	GCMS4P	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	134164	7.26	222269	10.17	320891	14.38	220837	19.05
Upper Limit [a]	268328	7.76	444538	10.67	641782	14.88	441674	19.55
Lower Limit [b]	67082	6.76	111135	9.67	160446	13.88	110419	18.55

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95345A-MB1	159133	7.26	249659	10.17	322309	14.39	219714	19.06
OP95345A-BS12	126880	7.26	193485	10.17	244812	14.40	169244	19.06
ZZZZZZ	143221	7.26	237354	10.17	318329	14.39	196706	19.06
ZZZZZZ	140691	7.26	235890	10.17	278385	14.40	184270	19.06
ZZZZZZ	230866	7.28	400053	10.22	421939	14.47	246200	19.10
ZZZZZZ	151491	7.26	191572	10.20	326747	14.41	224612	19.07
OP95376A-MB1	174701	7.26	194353	10.17	312402	14.39	239111	19.07
OP95376A-BS12	158640	7.26	175035	10.17	277052	14.39	200255	19.07
JC23491-1	181066	7.26	220823	10.17	326253	14.40	223649	19.07
OP95376A-MS	180069	7.26	197612	10.17	316502	14.40	216584	19.07
OP95376A-MSD	174290	7.26	191732	10.17	310035	14.39	209274	19.07
OP95323A-MB1	186491	7.26	214897	10.17	340990	14.40	240325	19.07
OP95323A-BS12	166464	7.26	195804	10.17	315072	14.40	215106	19.07
OP95323A-MS	173512	7.26	192811	10.17	311496	14.39	205061	19.07
OP95323A-MSD	172774	7.26	188911	10.17	301430	14.39	201442	19.07
ZZZZZZ	161730	7.26	184941	10.17	290202	14.40	194489	19.07
ZZZZZZ	157757	7.26	180619	10.17	289645	14.39	199748	19.07
JC23294-1	153707	7.26	165392	10.17	282664	14.39	193646	19.07

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	EP4679-CC4667	**Injection Date:**	07/08/16
Lab File ID:	P105950.D	**Injection Time:**	11:18
Instrument ID:	GCMSP	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	181005	4.64	618288	5.56	414163	6.96	766457	8.82	693914	14.06	541048	17.10
Upper Limit [a]	362010	5.14	1236576	6.06	828326	7.46	1532914	9.32	1387828	14.56	1082096	17.60
Lower Limit [b]	90503	4.14	309144	5.06	207082	6.46	383229	8.32	346957	13.56	270524	16.60

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
ZZZZZZ	150207	4.64	446392	5.56	292284	6.96	563507	8.81	566880	14.05	463803	17.09
OP95328A-MB1	153632	4.64	517350	5.56	312109	6.96	596040	8.81	587910	14.05	499178	17.09
JC23443-5	165943	4.64	555448	5.56	333319	6.96	605710	8.81	594458	14.05	490741	17.09

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	EZ5607-CC5571	**Injection Date:**	07/10/16
Lab File ID:	Z112255.D	**Injection Time:**	08:57
Instrument ID:	GCMSZ	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	144494	4.54	567183	5.47	336265	6.83	581641	8.63	533100	13.83	460948	16.86
Upper Limit [a]	288988	5.04	1134366	5.97	672530	7.33	1163282	9.13	1066200	14.33	921896	17.36
Lower Limit [b]	72247	4.04	283592	4.97	168133	6.33	290821	8.13	266550	13.33	230474	16.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP95383-MB1 [c]	166146	4.54	638363	5.46	374738	6.83	603160	8.63	507127	13.81	441072	16.85
JC23443-4	141307	4.54	552136	5.46	324918	6.83	534299	8.63	501951	13.81	444319	16.85
ZZZZZZ	163505	4.54	626797	5.46	337308	6.83	520001	8.63	406671	13.82	369369	16.85
ZZZZZZ	156701	4.54	606524	5.46	329732	6.83	516801	8.63	414138	13.82	388263	16.86
ZZZZZZ	140739	4.54	550964	5.46	307372	6.83	486622	8.63	401333	13.82	369181	16.86
ZZZZZZ	105712	4.54	418655	5.46	236646	6.83	389489	8.63	316427	13.82	297515	16.86
ZZZZZZ	113867	4.54	416619	5.47	236448	6.83	380182	8.63	346138	13.82	314977	16.86
ZZZZZZ	136727	4.54	522900	5.46	294893	6.83	479312	8.63	409787	13.82	327055	16.86
ZZZZZZ	122444	4.54	464387	5.46	261829	6.83	432149	8.63	378034	13.82	301869	16.85
ZZZZZZ	129550	4.54	501659	5.46	275356	6.83	442330	8.63	391282	13.81	319717	16.85
ZZZZZZ	143083	4.54	539813	5.46	299324	6.83	468930	8.63	414172	13.81	339747	16.85
ZZZZZZ	133879	4.54	498640	5.46	274927	6.83	441542	8.63	370799	13.81	315446	16.85
ZZZZZZ	127678	4.55	488748	5.47	265038	6.83	390082	8.63	357581	13.83	337578	16.88
ZZZZZZ	126697	4.55	483883	5.47	273416	6.83	413278	8.64	350941	13.84	325646	16.88
ZZZZZZ	125789	4.55	484118	5.47	270934	6.83	400971	8.64	349802	13.85	338106	16.90
ZZZZZZ	112505	4.55	415647	5.47	245535	6.84	357114	8.65	347646	13.87	386483	16.93

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) missing pdf

Semivolatile Surrogate Recovery Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC23443-1	3M62854.D	69	69	79
JC23443-2	3M62855.D	68	71	79
JC23443-3	3M62856.D	72	72	75
JC23443-4	Z112258A.D	78	65	66
JC23443-4	3M62857.D	66	64	75
JC23443-5	P105954.D	95	89	80
JC23443-5	4M66661.D	61	45	67
OP95323A-BS12	4P17785.D	57	69	73
OP95323A-MB1	3M62853.D	56	55	64
OP95323A-MB1	3P55085.D	55	50	58
OP95323A-MB1	4P17784.D	60	70	70
OP95323A-MS	4P17786.D	68	75	82
OP95323A-MSD	4P17787.D	71	77	80
OP95328A-BS12	4M66743.D	85	95	92
OP95328A-MB1	P105953.D	117	120	103
OP95328A-MB1	4M66742A.D	86	96	94
OP95328A-MB1	4P17752.D	104	90	106
OP95328A-MS	4M66744.D	89	99	96
OP95328A-MSD	4M66745.D	84	93	85

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	24-125%
S2 = 2-Fluorobiphenyl	19-127%
S3 = Terphenyl-d14	10-119%

Initial Calibration Summary

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E3M2942-ICC2942
Lab FileID: 3M62373.D

Response Factor Report MS3M

Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration

Calibration Files
2.5 =3m62379.D 1.0 =3m62373.D 0.5 =3m62374.D 0.2 =3m62371.D
0.1 =3m62372.D 0.05=3m62380.D 0.02=3m62376.D 0.01=3m62377.D
5 =3m62378.D = = =

Compound	2.5	1.0	0.5	0.2	0.1	0.05	0.02	0.01	5	Avg	%RSD
1) I 1-Methylnaphthalene-d ----------ISTD----------											
2) 1,4-dioxane	0.239	0.244	0.252	0.266	0.236				0.249	0.247	4.44
3) 2-Fluorophenol	0.592	0.631	0.661	0.697	0.627	0.607			0.570	0.627	6.79
4) Phenol-d5	0.925	0.994	1.062	1.112	0.997	0.952			0.900	0.992	7.57
5) Phenol	1.049	1.111	1.181	1.208	1.087	1.045	1.041		1.012	1.092	6.47
6) bis(2-Chloroethyl)ether	0.806	0.833	0.879	0.912	0.822	0.772	0.801	0.791	0.795	0.824	5.48
7) Nitrobenzene-d5	0.899	0.829	0.864	0.851	0.738	0.769			0.730	0.811	8.17
8) Nitrobenzene	0.923	0.956	0.976	0.982	0.867	0.850	0.767	0.733	0.924	0.886	10.12
9) Naphthalene	2.334	2.410	2.530	2.600	2.292	2.245	2.340	2.242	2.355	2.372	5.18
10) Hexachlorobutadiene	0.340	0.366	0.383	0.404	0.361	0.340	0.350	0.342	0.335	0.358	6.54
11) 2-Methylnaphthalene	1.199	1.210	1.259	1.395	1.123	1.272			1.182	1.234	7.02
12) 1-Methylnaphthalene	1.413	1.450	1.533	1.515	1.360	1.375	1.425	1.387	1.428	1.432	4.15
13) Hexachlorocyclopentadiene	0.282	0.252	0.243	0.240	0.188				0.299	0.251	15.26
14) I Fluorene-d10 ----------ISTD----------											
15) 2-Fluorobiphenyl	1.189	1.326	1.408	1.277	1.173	1.182	1.154	1.088		1.225	8.53
16) Acenaphthylene	1.601	1.724	1.693	1.560	1.321	1.235	1.226		1.612	1.497	13.61
17) Acenaphthene	1.026	1.132	1.164	1.039	0.879	0.836	0.835	0.819	1.015	0.972	13.65
18) 4,6-dinitro-2-methylphenol	0.085	0.053	0.041	0.031	0.019				0.117	0.058	63.58
---- Quadratic regression ---- Coefficient = 0.9997											
Response Ratio = -0.00894 + 0.05424 *A + 0.01025 *A^2											
19) Fluorene	1.058	1.239	1.295	1.176	1.020	0.963	0.973		1.036	1.095	11.43
20) 2,4,6-Tribromophenol	0.138	0.131	0.125	0.106					0.146	0.129	11.88
21) I Fluoranthene-d10 ----------ISTD----------											

Initial Calibration Summary

Job Number: JC23443 **Sample:** E3M2942-ICC2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62373.D
Project: BMS-ICM, Humacao, PR

```
22)  Hexachlorobenzene
           0.202 0.229 0.237 0.207 0.182 0.192 0.185 0.194 0.198        0.203    9.29
23)  Pentachlorophenol
           0.089 0.081 0.062 0.057 0.031 0.031             0.102        0.065   42.80
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.00610 + 0.07890 *A + 0.00384 *A^2

24)  Phenanthrene
           1.030 1.172 1.189 1.032 0.879 0.829             1.001        1.019   13.20
25)  Anthracene
           0.997 1.053 1.043 0.902 0.728                   1.003        0.954   12.88
26)  Fluoranthene
           1.111 1.264 1.285 1.174 1.145 1.197             1.096        1.182    6.12
27)  Pyrene
           1.110 1.221 1.180 1.119 0.969 0.865             1.127        1.085   11.48
28)  Terphenyl-d14
           0.622 0.664 0.689 0.627 0.538                   0.474        0.602   13.46
29)  Benzo[a]anthracene
           0.798 0.921 0.871 0.896 0.708 0.431             0.851        0.782   21.77
            ---- Quadratic regression ----  Coefficient =  0.9988
              Response Ratio = 0.00485 + 0.79013 *A + 0.04339 *A^2

30)  Chrysene
           0.943 1.021 1.073 0.962 0.945 0.849             0.944        0.963    7.26

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
           1.100 1.462 1.311 1.419 1.072                   1.214        1.263   12.87
33)  Benzo[k]fluoranthene
           1.235 1.489 1.546 1.342 1.244                   1.264        1.353    9.89
34)  Benzo[a]pyrene
           1.062 1.378 1.258 1.346 1.279 1.660                          1.330   14.71
35)  Indeno[1,2,3-cd]pyrene
           1.044 1.245 1.148 1.169 0.866                   1.137        1.101   11.98
36)  Dibenz[a,h]anthracene
           0.827 0.995 0.929 0.945 0.686                   0.916        0.883   12.57
37)  Benzo[g,h,i]perylene
           0.937 1.123 1.090 1.069 0.854                   0.999        1.012   10.14
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3M2942SIM.M        Tue Jun 21 11:55:19 2016   RPT1
```

Initial Calibration Verification

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E3M2942-ICV2942
Lab FileID: 3M62382.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2942\3m62382.D          Vial: 13
Acq On    : 21 Jun 2016  12:56 am                    Operator: ashleyd
Sample    : icv2942-1.0                              Inst    : MS3M
Misc      : op94419a,e3m2942                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2942SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 21 08:25:24 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1-Methylnaphthalene-d10	1.000	1.000	0.0	103	0.00	10.89
5	Phenol	1.092	0.934	14.5	87	0.00	6.37
14 I	Fluorene-d10	1.000	1.000	0.0	94	0.00	13.89
	----------	True	Calc.	% Drift	----------		
18 t	4,6-dinitro-2-methylpheno	5.000	4.454	10.9	90	-0.02	14.08
21 I	Fluoranthene-d10	1.000	1.000	0.0	92	0.00	18.08
	----------	True	Calc.	% Drift	----------		
23 t	Pentachlorophenol	5.000	4.220	15.6	74	-0.02	15.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62373.D M3M2942SIM.M Tue Jun 21 11:57:09 2016 RPT1

Initial Calibration Verification

Job Number: JC23443 **Sample:** E3M2943-ICV2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62384.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2943\3m62384.D          Vial: 2
Acq On    : 21 Jun 2016   9:26 am                    Operator: linseyk
Sample    : icv2942-1                                Inst    : MS3M
Misc      : op94419a,e3m2943                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2942SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jun 21 08:25:24 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	126	-0.02	10.87
2	t	1,4-dioxane	0.247	0.260	-5.3	135	0.00	2.51
6	t	bis(2-Chloroethyl)ether	0.824	0.841	-2.1	127	-0.01	6.50
8	t	Nitrobenzene	0.886	0.755	14.8	100	0.00	7.99
9	t	Naphthalene	2.372	2.432	-2.5	127	-0.02	9.36
10	t	Hexachlorobutadiene	0.358	0.331	7.5	114	0.00	9.68
11	t	2-Methylnaphthalene	1.234	1.312	-6.3	137	-0.02	10.74
14	I	Fluorene-d10	1.000	1.000	0.0	118	-0.02	13.88
16	t	Acenaphthylene	1.497	1.716	-14.6	117	-0.02	12.53
17	t	Acenaphthene	0.972	1.133	-16.6	118	-0.02	12.88
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.095	1.198	-9.4	114	0.00	13.93
21	I	Fluoranthene-d10	1.000	1.000	0.0	107	0.00	18.08
22	t	Hexachlorobenzene	0.203	0.239	-17.7	112	-0.02	15.05
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	1.019	1.182	-16.0	108	-0.02	15.84
25	t	Anthracene	0.954	1.078	-13.0	110	-0.02	15.95
26	t	Fluoranthene	1.182	1.246	-5.4	106	-0.02	18.09
27	t	Pyrene	1.085	1.299	-19.7	114	0.00	18.50
		----------	True	Calc.	% Drift	----------		
29	t	Benzo[a]anthracene	1.000	1.297	-29.7	124	0.00	20.58
		----------	AvgRF	CCRF	% Dev	----------		
30	t	Chrysene	0.963	1.035	-7.5	109	-0.02	20.63
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	108	-0.02	22.66
32	t	Benzo[b]fluoranthene	1.263	1.401	-10.9	103	0.00	22.25
33	t	Benzo[k]fluoranthene	1.353	1.395	-3.1	101	0.00	22.28
34	t	Benzo[a]pyrene	1.330	1.400	-5.3	110	0.00	22.70
35	t	Indeno[1,2,3-cd]pyrene	1.101	1.389	-26.2	120	0.00	24.26
36	t	Dibenz[a,h]anthracene	0.883	1.088	-23.2	118	0.00	24.30
37	t	Benzo[g,h,i]perylene	1.012	1.219	-20.5	117	0.00	24.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62373.D M3M2942SIM.M Tue Jun 21 12:01:55 2016 RPT1

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E3M2968-CC2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62851.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2968\3m62851.D          Vial: 2
Acq On    :  8 Jul 2016  10:15 am                     Operator: linseyk
Sample    : cc2942-.5                                 Inst    : MS3M
Misc      : op95160a,e3m2968                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2942SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 09:00:12 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	98	-0.10	10.66
2	t	1,4-dioxane	0.247	0.230	6.9	89	0.00	2.36
3	S	2-Fluorophenol	0.627	0.568	9.4	84	-0.09	4.63
4	S	Phenol-d5	0.992	0.871	12.2	80	-0.05	6.24
5		Phenol	1.092	0.936	14.3	77	-0.04	6.26
6	t	bis(2-Chloroethyl)ether	0.824	0.682	17.2	76	-0.05	6.32
7	S	Nitrobenzene-d5	0.811	0.791	2.5	89	-0.12	7.76
8	t	Nitrobenzene	0.886	0.847	4.4	85	-0.10	7.80
9	t	Naphthalene	2.372	2.221	6.4	86	-0.10	9.18
10	t	Hexachlorobutadiene	0.358	0.384	-7.3	98	-0.10	9.48
11	t	2-Methylnaphthalene	1.234	1.126	8.8	87	-0.10	10.54
12	t	1-Methylnaphthalene	1.432	1.233	13.9	78	-0.08	10.74
13		Hexachlorocyclopentadiene	0.251	0.265	-5.6	107	-0.08	10.91
14	I	Fluorene-d10	1.000	1.000	0.0	109	-0.06	13.67
15	S	2-Fluorobiphenyl	1.225	1.077	12.1	83	-0.06	11.34
16	t	Acenaphthylene	1.497	1.525	-1.9	98	-0.06	12.33
17	t	Acenaphthene	0.972	0.980	-0.8	92	-0.06	12.68
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	4.088	-63.5#	244	-0.04	13.89
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.095	1.109	-1.3	93	-0.04	13.72
20	S	2,4,6-Tribromophenol	0.129	0.139	-7.8	122	-0.01	14.23
21	I	Fluoranthene-d10	1.000	1.000	0.0	116	-0.05	17.87
22	t	Hexachlorobenzene	0.203	0.208	-2.5	102	-0.09	14.84
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	2.109	15.6	110	-0.07	15.28
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	1.019	0.979	3.9	95	-0.09	15.63
25	t	Anthracene	0.954	0.929	2.6	103	-0.08	15.74
26	t	Fluoranthene	1.182	1.149	2.8	104	-0.05	17.90
27	t	Pyrene	1.085	1.144	-5.4	112	-0.05	18.29
28	S	Terphenyl-d14	0.602	0.657	-9.1	111	-0.03	18.68
		----------	True	Calc.	% Drift	----------		
29	t	Benzo[a]anthracene	0.500	0.626	-25.2#	138	-0.03	20.38

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E3M2968-CC2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62851.D
Project: BMS-ICM, Humacao, PR

			AvgRF	CCRF	% Dev			
30	t	Chrysene	0.963	1.075	-11.6	116	-0.04	20.44
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	151	-0.03	22.47
32	t	Benzo[b]fluoranthene	1.263	1.190	5.8	137	-0.04	22.04
33	t	Benzo[k]fluoranthene	1.353	1.127	16.7	110	-0.13	22.07
34	t	Benzo[a]pyrene	1.330	1.152	13.4	138	-0.06	22.49
35	t	Indeno[1,2,3-cd]pyrene	1.101	1.266	-15.0	167	-0.06	24.01
36	t	Dibenz[a,h]anthracene	0.883	1.029	-16.5	168	-0.06	24.05
37	t	Benzo[g,h,i]perylene	1.012	1.069	-5.6	148	-0.08	24.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62753.D M3M2942SIM.M Sun Jul 10 08:59:37 2016 RPT1

Initial Calibration Summary

Job Number: JC23443 **Sample:** E3P2503-ICC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P54955.D
Project: BMS-ICM, Humacao, PR

```
                         Response Factor Report  MSGC3P

Method       : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Calibration Files
2.5 =3p54962.D   1.0 =3p54955.D   0.5 =3p54963.D   0.2 =3p54960.D
0.1 =3p54959.D   0.05=3p54958.D   0.02=3p54957.D   0.01=3p54956.D
5   =3p54961.D       =                 =                 =

Compound
            2.5   1.0   0.5   0.2   0.1   0.05  0.02  0.01  5            Avg    %RSD
-----------------------------------------------------------------------------

1) I   1-Methylnaphthalene-d ----------------ISTD---------------------
2)  1,4-dioxane
          0.382 0.421 0.347 0.441 0.420                   0.405        0.403    8.35
3)  2-Fluorophenol
          0.512 0.597 0.571 0.766 0.707 0.723                          0.646   15.53
4)  Phenol-d5
          0.671 0.755 0.766 1.020 0.970 1.006                          0.864   17.51
5)  Phenol
          0.597 0.667 0.679 0.971 0.963 1.027 1.074                    0.854   23.21
           ---- Quadratic regression ----  Coefficient =  0.9989
             Response Ratio = 0.03088 + 0.67965 *A + -0.02976 *A^2

6)  bis(2-Chloroethyl)ether
          0.595 0.584 0.579 0.764 0.755 0.802 0.872 0.860 0.606        0.713   17.12
7)  Nitrobenzene-d5
          0.561 0.604 0.634 0.771 0.716 0.746             0.520        0.650   14.77
8)  Nitrobenzene
          0.583 0.612 0.655 0.921 0.836                                0.722   20.62
9)  Naphthalene
          2.445 2.304 2.285 2.831 2.717 2.851 2.919 2.937 2.376        2.629   10.40
10)  Hexachlorobutadiene
          0.390 0.364 0.376 0.476 0.467 0.513 0.590       0.386        0.445   18.00
11)  2-Methylnaphthalene
          1.325 1.190 1.285 1.636 1.411 1.822             1.232        1.414   16.42
12)  1-Methylnaphthalene
          1.114 1.016 1.011 1.212 1.094 1.106 1.120 1.252 1.082        1.112    7.14
13)  Hexachlorocyclopentadiene
          0.312 0.265 0.221 0.205 0.169                   0.354        0.254   27.34
           ---- Quadratic regression ----  Coefficient =  0.9999
             Response Ratio = -0.00964 + 0.27470 *A + 0.03325 *A^2


14) I   Fluorene-d10          ----------------ISTD---------------------
15)  2-Fluorobiphenyl
          0.634 0.835 0.922 1.138 1.054 1.090 1.125 1.076              0.984   17.87
16)  Acenaphthylene
          1.420 1.327 1.446 1.509 1.319 1.483 1.399       1.385        1.411    4.83
17)  Acenaphthene
          0.817 0.847 0.879 0.964 0.894 0.943 0.936 0.995 0.767        0.893    8.29
18)  4,6-dinitro-2-methylphenol
          0.098 0.061 0.050 0.048 0.028                   0.133        0.070   55.52
           ---- Quadratic regression ----  Coefficient =  0.9996
             Response Ratio = -0.00883 + 0.06278 *A + 0.01142 *A^2
```

Initial Calibration Summary

Job Number: JC23443 **Sample:** E3P2503-ICC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P54955.D
Project: BMS-ICM, Humacao, PR

```
19)  Fluorene
           0.866 0.861 0.833 0.910 0.796 0.798 0.802 0.853 0.867        0.843    4.59
20)  2,4,6-Tribromophenol
           0.125 0.137 0.133 0.137                          0.094        0.125   14.44

21) I   Fluoranthene-d10      ----------------ISTD---------------------
22)  Hexachlorobenzene
           0.203 0.202 0.221 0.247 0.224 0.235 0.240 0.228 0.186        0.221    9.09
23)  Pentachlorophenol
           0.105 0.098 0.082 0.079 0.056 0.075              0.105        0.086   20.82
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.00724 + 0.10562 *A + 0.00018 *A^2

24)  Phenanthrene
           0.855 0.868 0.995 1.053 0.966 1.018              0.761        0.931   11.30
25)  Anthracene
           0.735 0.782 0.826 0.903 0.843                    0.683        0.795    9.94
26)  Fluoranthene
           0.821 0.806 0.804 0.870 0.783 0.780              0.764        0.804    4.34
27)  Pyrene
           0.923 0.898 0.911 0.963 0.857 0.889              0.850        0.899    4.33
28)  Terphenyl-d14
           0.344 0.439 0.505 0.617 0.587 0.612 0.583                     0.527   19.59
29)  Benzo[a]anthracene
           0.782 0.771 0.749 0.733 0.681 0.748              0.780        0.749    4.68
30)  Chrysene
           0.784 0.822 0.890 0.938 0.897 0.956              0.704        0.856   10.55

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
           1.410 1.284 1.328 1.277 1.221                    1.432        1.325    6.18
33)  Benzo[k]fluoranthene
           1.087 1.132 1.094 1.209 1.120                    1.055        1.116    4.73
34)  Benzo[a]pyrene
           0.999 0.994 0.935 1.109 1.078 1.181              1.019        1.045    7.94
35)  Indeno[1,2,3-cd]pyrene
           1.205 1.212 1.091 1.167 1.023                    1.217        1.153    6.85
36)  Dibenz[a,h]anthracene
           0.842 0.986 0.877 0.931 0.811                    0.875        0.887    7.08
37)  Benzo[g,h,i]perylene
           1.109 1.136 1.109 1.217 1.130                    1.106        1.134    3.74
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M3P2503SIM.M        Mon Jul 11 10:10:21 2016
```

6.7.5

6

Initial Calibration Verification

Job Number: JC23443 **Sample:** E3P2503-ICV2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P54964.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2503\3p54964.D          Vial: 11
Acq On    :  6 Jul 2016   5:37 pm                     Operator: hankc
Sample    : icv2503-1.0                               Inst    : MSGC3P
Misc      : op95179a,e3p2503                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 17:34:10 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	96	0.00	11.10
2	t	1,4-dioxane	0.403	0.317	21.3	72	-0.02	2.74
		----------	AvgRF	CCRF	% Dev		----------	
6	t	bis(2-Chloroethyl)ether	0.713	0.945	-32.5#	155	-0.01	6.76
8	t	Nitrobenzene	0.722	0.849	-17.6	133	0.00	8.24
9	t	Naphthalene	2.629	2.847	-8.3	118	0.00	9.62
10	t	Hexachlorobutadiene	0.445	0.463	-4.0	122	0.00	9.92
11	t	2-Methylnaphthalene	1.414	1.410	0.3	113	0.00	10.98
		----------	True	Calc.	% Drift		----------	
13		Hexachlorocyclopentadiene	1.000	0.902	9.8	78	0.00	11.35
		----------	AvgRF	CCRF	% Dev		----------	
14	I	Fluorene-d10	1.000	1.000	0.0	88	0.00	14.09
16	t	Acenaphthylene	1.411	1.697	-20.3	113	0.00	12.75
17	t	Acenaphthene	0.893	1.076	-20.5	112	0.00	13.11
		----------	AvgRF	CCRF	% Dev		----------	
19	t	Fluorene	0.843	1.061	-25.9	109	0.00	14.15
21	I	Fluoranthene-d10	1.000	1.000	0.0	81	0.00	18.26
22	t	Hexachlorobenzene	0.221	0.270	-22.2	109	0.00	15.26
		----------	AvgRF	CCRF	% Dev		----------	
24	t	Phenanthrene	0.931	1.167	-25.3	109	0.00	16.05
25	t	Anthracene	0.795	0.945	-18.9	98	0.00	16.15
26	t	Fluoranthene	0.804	1.037	-29.0	105	0.00	18.29
27	t	Pyrene	0.899	1.100	-22.4	100	0.00	18.67
29	t	Benzo[a]anthracene	0.749	0.986	-31.6#	104	0.00	20.74
30	t	Chrysene	0.856	0.887	-3.6	88	0.00	20.79
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	69	0.04	22.83
32	t	Benzo[b]fluoranthene	1.325	1.552	-17.1	83	0.00	22.40
33	t	Benzo[k]fluoranthene	1.116	1.529	-37.0#	93	0.00	22.44
34	t	Benzo[a]pyrene	1.045	1.292	-23.6	89	0.00	22.85
35	t	Indeno[1,2,3-cd]pyrene	1.153	1.406	-21.9	79	0.00	24.45
36	t	Dibenz[a,h]anthracene	0.887	1.101	-24.1	77	0.00	24.49
37	t	Benzo[g,h,i]perylene	1.134	1.388	-22.4	84	0.00	24.88

Initial Calibration Verification

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E3P2503-ICV2503
Lab FileID: 3P54964.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 3p54955.D  M3P2503SIM.M       Mon Jul 11 10:10:11 2016
```

Initial Calibration Verification

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E3P2503-ICV2503
Lab FileID: 3P54965.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2503\3p54965.D          Vial: 12
Acq On    :  6 Jul 2016   6:08 pm                     Operator: hankc
Sample    : icv2503-1.0                               Inst    : MSGC3P
Misc      : op95179a,e3p2503                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 17:34:10 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1-Methylnaphthalene-d10	1.000	1.000	0.0	99	0.00	11.10
	----------	True	Calc.	% Drift	----------		
5	Phenol	5.000	6.972	-39.4#	133	-0.01	6.61
	----------	AvgRF	CCRF	% Dev	----------		
14 I	Fluorene-d10	1.000	1.000	0.0	87	0.00	14.09
	----------	True	Calc.	% Drift	----------		
18 t	4,6-dinitro-2-methylpheno	5.000	3.887	22.3	72	-0.02	14.28
	----------	AvgRF	CCRF	% Dev	----------		
21 I	Fluoranthene-d10	1.000	1.000	0.0	79	0.00	18.26
	----------	True	Calc.	% Drift	----------		
23 t	Pentachlorophenol	5.000	4.412	11.8	71	0.00	15.67

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p54955.D M3P2503SIM.M Mon Jul 11 10:10:13 2016

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E3P2509-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55076.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2509\3p55076.D          Vial: 2
Acq On    : 13 Jul 2016  10:17 am                    Operator: ashleyd
Sample    : cc2503-0.5                               Inst    : MSGC3P
Misc      : op95332a,e3p2509                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3P2503SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 06 17:34:10 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	90	-0.08	11.02
2	t	1,4-dioxane	0.403	0.461	-14.4	119	-0.08	2.67
3	S	2-Fluorophenol	0.646	0.661	-2.3	104	-0.08	4.96
4	S	Phenol-d5	0.864	0.851	1.5	100	-0.06	6.54
		----------	True	Calc.	% Drift	----------		
5		Phenol	2.500	2.722	-8.9	101	-0.07	6.55
		----------	AvgRF	CCRF	% Dev	----------		
6	t	bis(2-Chloroethyl)ether	0.713	0.667	6.5	103	-0.08	6.69
7	S	Nitrobenzene-d5	0.650	0.703	-8.2	99	-0.08	8.13
8	t	Nitrobenzene	0.722	0.743	-2.9	102	-0.08	8.17
9	t	Naphthalene	2.629	2.313	12.0	91	-0.09	9.52
10	t	Hexachlorobutadiene	0.445	0.360	19.1	86	-0.08	9.84
11	t	2-Methylnaphthalene	1.414	1.382	2.3	97	-0.08	10.89
12	t	1-Methylnaphthalene	1.112	1.155	-3.9	103	-0.08	11.08
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.929	7.1	91	-0.08	11.26
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	84	-0.09	14.00
15	S	2-Fluorobiphenyl	0.984	1.001	-1.7	91	-0.08	11.67
16	t	Acenaphthylene	1.411	1.240	12.1	72	-0.09	12.66
17	t	Acenaphthene	0.893	1.005	-12.5	96	-0.09	13.01
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	2.557	-2.3	98	-0.09	14.21
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.843	0.945	-12.1	95	-0.09	14.05
20	S	2,4,6-Tribromophenol	0.125	0.146	-16.8	93	-0.09	14.54
21	I	Fluoranthene-d10	1.000	1.000	0.0	80	-0.03	18.16
22	t	Hexachlorobenzene	0.221	0.245	-10.9	89	-0.04	15.16
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	2.401	4.0	87	-0.04	15.58
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.931	1.078	-15.8	87	-0.04	15.95

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E3P2509-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55076.D
Project: BMS-ICM, Humacao, PR

25	t	Anthracene	0.795	0.781	1.8	76	-0.04	16.06
26	t	Fluoranthene	0.804	0.909	-13.1	90	-0.03	18.19
27	t	Pyrene	0.899	0.950	-5.7	83	-0.03	18.58
28	S	Terphenyl-d14	0.527	0.555	-5.3	88	-0.03	18.94
29	t	Benzo[a]anthracene	0.749	0.689	8.0	74	-0.05	20.65
30	t	Chrysene	0.856	0.905	-5.7	81	-0.05	20.70
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	72	-0.06	22.72
32	t	Benzo[b]fluoranthene	1.325	1.296	2.2	71	-0.04	22.30
33	t	Benzo[k]fluoranthene	1.116	1.162	-4.1	77	-0.04	22.34
34	t	Benzo[a]pyrene	1.045	0.975	6.7	75	-0.04	22.76
35	t	Indeno[1,2,3-cd]pyrene	1.153	1.333	-15.6	88	-0.05	24.34
36	t	Dibenz[a,h]anthracene	0.887	1.085	-22.3#	89	-0.05	24.37
37	t	Benzo[g,h,i]perylene	1.134	1.276	-12.5	83	-0.09	24.73

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p54963.D M3P2503SIM.M Wed Jul 13 16:19:41 2016

Initial Calibration Summary

Job Number: JC23443 **Sample:** E4M2974-ICC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66184.D
Project: BMS-ICM, Humacao, PR

Response Factor Report GCMS4M

Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Calibration Files
0.05=4m66185.D .2 =4m66182.D 2.5 =4m66189.D .02 =4m66186.D
.1 =4m66181.D 1 =4m66184.D .01 =4m66187.D .5 =4m66183.D
5 =4m66188.D = = =

Compound

	0.05	.2	2.5	.02	.1	1	.01	.5	5	Avg	%RSD
1) I 1-Methylnaphthalene-d ----------ISTD----------											
2) 2-Fluorophenol											
	0.655	0.695	0.646	0.586	0.607	0.642		0.670	0.598	0.637	5.91
3) Phenol-d5											
	1.018	1.114	0.989	0.929	0.956	1.031		1.068	0.937	1.005	6.50
4) Phenol											
	1.140	1.198	1.089	0.994	1.027	1.093		1.127	1.034	1.088	6.19
5) bis(2-Chloroethyl)ether											
	0.684	0.859	0.826	0.599	0.773	0.805		0.817	0.778	0.768	11.11
6) Nitrobenzene-d5											
	0.918	0.983	0.873	0.856	0.836	0.895		0.923	0.868	0.894	5.23
7) Naphthalene											
	2.780	3.002	2.831	2.771	2.541	2.828	2.788	2.883	2.701	2.792	4.51
8) Hexachlorobutadiene											
	0.495	0.514	0.471	0.488	0.435	0.471		0.484	0.451	0.476	5.27
9) 2-Methylnaphthalene											
		1.591	1.232		1.385	1.222		1.319	1.189	1.323	11.31
10) Hexachlorocyclopentadiene											
		0.026	0.151		0.011	0.083		0.049	0.198	0.086	85.53
---- Quadratic regression ---- Coefficient = 0.9988											
Response Ratio = -0.01112 + 0.10494 *A + 0.03937 *A^2											
11) 2-Fluorobiphenyl											
	1.656	1.805	1.430	1.586	1.462	1.618		1.713		1.610	8.24
12) I Fluorene-d10 ----------ISTD----------											
13) Acenaphthylene											
	1.001	1.108	1.086	1.038	0.966	1.182	0.988	1.196	0.979	1.060	8.22
14) Acenaphthene											
	0.641	0.697	0.677	0.634	0.584	0.748	0.612	0.745	0.583	0.658	9.56
15) Dibenzofuran											
		1.321	0.969		0.963	1.106		1.163	0.898	1.070	14.72
16) Fluorene											
	1.172	1.240	1.185	1.114	1.050	1.335	1.083	1.359	1.104	1.183	9.28
17) 2,4,6-Tribromophenol											
	0.165	0.192	0.180		0.162	0.208		0.211		0.186	11.30
18) Hexachlorobenzene											
	0.381	0.407	0.362	0.493	0.349	0.417	0.380	0.435	0.331	0.395	12.50
19) Pentachlorophenol											
	0.125	0.141	0.163		0.117	0.167		0.147	0.159	0.146	13.33
20) Phenanthrene											
	1.533	1.691	1.598	1.528	1.445	1.792	1.546	1.832	1.419	1.598	9.08
21) Anthracene											
	1.461	1.485	1.490	1.395	1.357	1.619	1.442	1.633	1.365	1.472	6.78

Initial Calibration Summary

Job Number: JC23443 **Sample:** E4M2974-ICC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66184.D
Project: BMS-ICM, Humacao, PR

```
22) I   Fluoranthene-d10      ----------------ISTD---------------------
23)  Fluoranthene
           1.141 1.180 1.088       1.122 1.273       1.306 1.072        1.169    7.71
24)  Pyrene
           1.021 1.132 1.094       1.103 1.242       1.276 1.104        1.139    7.86
25)  Terphenyl-d14
           0.536 0.607 0.547 0.531 0.575 0.635       0.656 0.432        0.565   12.51
26)  Benzo[a]anthracene
           0.890 1.003 0.879       1.050 1.051       1.102 0.941        0.988    8.74
27)  Chrysene
           1.003 1.032 0.911       1.127 1.065       1.122 0.931        1.027    8.31

28) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
29)  Benzo[b]fluoranthene
                 1.344 1.310       1.310 1.485       1.483              1.386    6.49
30)  Benzo[k]fluoranthene
           1.346 1.356 1.245       1.385 1.428       1.484 1.160        1.343    8.16
31)  Benzo[a]pyrene
           1.201 1.292 1.173       1.355 1.362       1.295 1.108        1.255    7.68
32)  Indeno[1,2,3-cd]pyrene
           1.382 1.507 1.406       1.385 1.605       1.620 1.361        1.467    7.50
33)  Dibenz[a,h]anthracene
           1.149 1.240 1.168       1.162 1.333       1.347 1.119        1.217    7.55
34)  Benzo[g,h,i]perylene
           1.225 1.301 1.232       1.217 1.386       1.402 1.181        1.278    6.81

35) I   1-Methylnaphthalene-d ----------------ISTD---------------------
36)  1,4-Dioxane
                 0.381 0.259       0.429 0.268       0.310 0.257        0.317   22.78
             ---- Quadratic regression ----  Coefficient =  0.9999
               Response Ratio = 0.00606 + 0.24609 *A + 0.00500 *A^2

37)  1-Methylnaphthalene
           1.212 1.203 1.203 1.258 1.101 1.126 1.405 1.167 1.109        1.198    7.83

38) I   Fluorene-d10a         ----------------ISTD---------------------
39)  4,6-dinitro-2-methylphenol
           0.082 0.107 0.196       0.066 0.171       0.125 0.159        0.129   36.99
            ---- Quadratic regression ----  Coefficient =  0.9967
              Response Ratio = -0.03186 + 0.23063 *A + -0.01051 *A^2

40)  1,2-Diphenylhydrazine
                 1.121 1.182       0.863 1.265       1.239 0.962        1.105   14.50
41)  n-nitrosodiphenylamine
                 0.774 0.860       0.640 0.901       0.858 0.674        0.785   13.70
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M4M2974SIM.M        Tue Jun 21 08:26:11 2016   MANAGER
```

Initial Calibration Verification

Job Number: JC23443 **Sample:** E4M2974-ICV2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66190.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2974\4m66190.D          Vial: 11
Acq On    : 21 Jun 2016   3:30 am                    Operator: ashleyd
Sample    : icv2974-1.0                              Inst    : GCMS4M
Misc      : op94799a,e4m2974                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	124	0.00	9.79
5	t	bis(2-Chloroethyl)ether	0.768	0.741	3.5	114	0.00	5.61
7	t	Naphthalene	2.792	2.651	5.1	116	0.00	8.31
8	t	Hexachlorobutadiene	0.476	0.453	4.8	119	-0.02	8.58
9	t	2-Methylnaphthalene	1.323	1.060	19.9	108	0.00	9.67
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	2.000	1.812	9.4	88	0.00	10.00
		----------	AvgRF	CCRF	% Dev	----------		
12	I	Fluorene-d10	1.000	1.000	0.0	132	0.00	12.76
13	t	Acenaphthylene	1.060	0.997	5.9	111	0.00	11.41
14	t	Acenaphthene	0.658	0.645	2.0	114	0.00	11.76
15	t	Dibenzofuran	1.070	0.934	12.7	112	0.00	12.14
16	t	Fluorene	1.183	1.079	8.8	107	0.00	12.81
18	t	Hexachlorobenzene	0.395	0.345	12.7	109	0.00	13.91
20	t	Phenanthrene	1.598	1.479	7.4	109	0.00	14.72
21	t	Anthracene	1.472	1.264	14.1	103	-0.02	14.81
22	I	Fluoranthene-d10	1.000	1.000	0.0	131	0.00	16.94
23	t	Fluoranthene	1.169	0.997	14.7	103	0.00	16.98
24	t	Pyrene	1.139	0.991	13.0	105	0.00	17.37
26	t	Benzo[a]anthracene	0.988	0.800	19.0	100	0.00	19.46
27	t	Chrysene	1.027	0.815	20.6	101	0.00	19.52
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	115	0.00	21.53
29	t	Benzo[b]fluoranthene	1.386	1.185	14.5	91	0.00	21.12
30	t	Benzo[k]fluoranthene	1.343	1.205	10.3	97	0.00	21.16
31	t	Benzo[a]pyrene	1.255	1.149	8.4	97	0.00	21.57
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.354	7.7	97	0.00	23.12
33	t	Dibenz[a,h]anthracene	1.217	1.098	9.8	94	0.00	23.16
34	t	Benzo[g,h,i]perylene	1.278	1.155	9.6	95	0.00	23.52
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	124	0.00	9.79
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	1.000	0.821	17.9	105	0.00	2.30
38	I	Fluorene-d10a	1.000	1.000	0.0	132	0.00	12.76
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	1.105	0.966	12.6	101	0.00	13.17

Initial Calibration Verification

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E4M2974-ICV2974
Lab FileID: 4M66190.D

```
41 t   n-nitrosodiphenylamine      0.785   0.691     12.0  101   0.00   13.12
---------------------------------------------------------------------------
---------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    4m66184.D  M4M2974SIM.M       Tue Jun 21 14:09:39 2016   MANAGER
```

Initial Calibration Verification

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E4M2974-ICV2974
Lab FileID: 4M66191.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2974\4m66191.D          Vial: 12
Acq On    : 21 Jun 2016   4:00 am                    Operator: ashleyd
Sample    : icv2974-1.0                              Inst    : GCMS4M
Misc      : op94799a,e4m2974                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	93	0.00	9.79
4	t	Phenol	1.088	1.118	-2.8	95	0.00	5.51
12	I	Fluorene-d10	1.000	1.000	0.0	89	0.00	12.76
19	t	Pentachlorophenol	0.146	0.165	-13.0	87	0.00	14.34
38	I	Fluorene-d10a	1.000	1.000	0.0	89	0.00	12.76
		----------	True	Calc.	% Drift		----------	
39	t	4,6-dinitro-2-methylpheno	5.000	4.844	3.1	96	0.00	13.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66184.D M4M2974SIM.M Tue Jun 21 08:27:37 2016 MANAGER

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E4M2998-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66646.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M2998\4m66646.D          Vial: 2
Acq On    :  6 Jul 2016  10:35 pm                    Operator: JULIUSJ
Sample    : CC2974-1.0                               Inst    : GCMS4M
Misc      : op95136a,e4m2998                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	90	-0.10	9.69
2	S	2-Fluorophenol	0.637	0.508	20.3#	71	0.00	4.09
3	S	Phenol-d5	1.005	0.821	18.3	72	0.05	5.54
4	t	Phenol	1.088	0.898	17.5	74	0.04	5.55
5	t	bis(2-Chloroethyl)ether	0.768	0.677	11.8	76	-0.07	5.54
6	S	Nitrobenzene-d5	0.894	0.763	14.7	77	-0.06	6.91
7	t	Naphthalene	2.792	2.276	18.5	73	-0.08	8.24
8	t	Hexachlorobutadiene	0.476	0.407	14.5	78	-0.09	8.50
9	t	2-Methylnaphthalene	1.323	3.257	-146.2#	241#	-0.10	9.57
		----------	True	Calc.	% Drift		----------	
10	t	Hexachlorocyclopentadiene	2.000	2.338	-16.9	139	-0.10	9.91
		----------	AvgRF	CCRF	% Dev		----------	
11	S	2-Fluorobiphenyl	1.610	1.104	31.4#	62	-0.07	10.36
12	I	Fluorene-d10	1.000	1.000	0.0	67	-0.09	12.67
13	t	Acenaphthylene	1.060	1.502	-41.7#	85	-0.07	11.34
14	t	Acenaphthene	0.658	0.816	-24.0#	73	-0.09	11.68
15	t	Dibenzofuran	1.070	1.331	-24.4#	80	-0.09	12.05
16	t	Fluorene	1.183	0.874	26.1#	44#	-0.09	12.72
17	S	2,4,6-Tribromophenol	0.186	0.209	-12.4	67	-0.07	13.24
18	t	Hexachlorobenzene	0.395	0.468	-18.5	75	-0.10	13.81
19	t	Pentachlorophenol	0.146	0.141	3.4	56	-0.04	14.30
20	t	Phenanthrene	1.598	1.977	-23.7#	74	-0.08	14.64
21	t	Anthracene	1.472	1.812	-23.1#	75	-0.10	14.73
22	I	Fluoranthene-d10	1.000	1.000	0.0	93	-0.08	16.86
23	t	Fluoranthene	1.169	1.045	10.6	76	-0.08	16.90
24	t	Pyrene	1.139	1.001	12.1	75	-0.08	17.29
25	S	Terphenyl-d14	0.565	0.596	-5.5	87	-0.08	17.67
26	t	Benzo[a]anthracene	0.988	0.853	13.7	75	-0.04	19.38
27	t	Chrysene	1.027	0.895	12.9	78	-0.11	19.44
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	94	-0.06	21.46
29	t	Benzo[b]fluoranthene	1.386	1.247	10.0	79	-0.06	21.03
30	t	Benzo[k]fluoranthene	1.343	1.124	16.3	74	-0.06	21.07
31	t	Benzo[a]pyrene	1.255	1.086	13.5	75	-0.12	21.50
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.318	10.2	77	-0.15	23.03
33	t	Dibenz[a,h]anthracene	1.217	1.110	8.8	78	-0.15	23.06
34	t	Benzo[g,h,i]perylene	1.278	1.151	9.9	78	-0.01	23.41

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E4M2998-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66646.D
Project: BMS-ICM, Humacao, PR

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	90	-0.10	9.69
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	1.000	0.984	1.6	90	-0.08	2.24
		----------	AvgRF	CCRF	% Dev	----------		
37	t	1-Methylnaphthalene	1.198	1.221	-1.9	98	-0.07	9.76
38	I	Fluorene-d10a	1.000	1.000	0.0	67	-0.09	12.67
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	5.000	4.010	19.8	59	-0.05	12.96
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	1.105	1.166	-5.5	61	-0.12	13.07
41	t	n-nitrosodiphenylamine	0.785	1.015	-29.3#	75	-0.02	13.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66184.D M4M2974SIM.M Thu Jul 07 08:46:34 2016 MANAGER

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E4M3003-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66741.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M3003\4m66741.D          Vial: 2
Acq On    :  9 Jul 2016  12:23 pm                    Operator: ashleyd
Sample    : cc2974-0.5                               Inst    : GCMS4M
Misc      : op95277a,e4m3003                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Tue Jun 21 08:02:51 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	68	-0.02	9.67
2	S	2-Fluorophenol	0.637	0.626	1.7	64	0.00	4.05
3	S	Phenol-d5	1.005	1.021	-1.6	65	0.04	5.47
4	t	Phenol	1.088	1.124	-3.3	68	0.04	5.50
5	t	bis(2-Chloroethyl)ether	0.768	0.943	-22.8#	79	-0.04	5.51
6	S	Nitrobenzene-d5	0.894	1.015	-13.5	75	-0.04	6.86
7	t	Naphthalene	2.792	2.953	-5.8	70	-0.04	8.19
8	t	Hexachlorobutadiene	0.476	0.561	-17.9	79	-0.06	8.45
9	t	2-Methylnaphthalene	1.323	1.553	-17.4	81	-0.03	9.55
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	1.000	1.257	-25.7#	144	-0.05	9.86
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.610	1.680	-4.3	67	-0.02	10.31
12	I	Fluorene-d10	1.000	1.000	0.0	79	-0.02	12.64
13	t	Acenaphthylene	1.060	1.192	-12.5	78	-0.03	11.29
14	t	Acenaphthene	0.658	0.708	-7.6	75	-0.04	11.63
15	t	Dibenzofuran	1.070	1.160	-8.4	78	-0.03	12.01
16	t	Fluorene	1.183	1.207	-2.0	70	-0.02	12.68
17	S	2,4,6-Tribromophenol	0.186	0.168	9.7	62	-0.02	13.19
18	t	Hexachlorobenzene	0.395	0.425	-7.6	77	-0.02	13.78
19	t	Pentachlorophenol		----------NA----------				
20	t	Phenanthrene	1.598	1.798	-12.5	77	-0.01	14.59
21	t	Anthracene	1.472	1.595	-8.4	77	-0.01	14.70
22	I	Fluoranthene-d10	1.000	1.000	0.0	91	-0.02	16.83
23	t	Fluoranthene	1.169	1.111	5.0	77	-0.04	16.85
24	t	Pyrene	1.139	1.194	-4.8	85	-0.04	17.24
25	S	Terphenyl-d14	0.565	0.665	-17.7	92	-0.03	17.62
26	t	Benzo[a]anthracene	0.988	1.110	-12.3	92	-0.04	19.33
27	t	Chrysene	1.027	0.994	3.2	81	-0.04	19.39
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	88	-0.03	21.42
29	t	Benzo[b]fluoranthene	1.386	1.332	3.9	79	-0.03	21.00
30	t	Benzo[k]fluoranthene	1.343	1.314	2.2	78	-0.03	21.04
31	t	Benzo[a]pyrene	1.255	1.166	7.1	79	-0.10	21.45
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.502	-2.4	81	-0.14	22.97
33	t	Dibenz[a,h]anthracene	1.217	1.258	-3.4	82	-0.12	23.01
34	t	Benzo[g,h,i]perylene	1.278	1.295	-1.3	81	0.00	23.35

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E4M3003-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66741.D
Project: BMS-ICM, Humacao, PR

```
35 I   1-Methylnaphthalene-d10a    1.000   1.000      0.0   68  -0.02    9.67

           ----------------------- True    Calc.   % Drift  ------------
36 t   1,4-Dioxane                          ----------NA----------

           ----------------------- AvgRF   CCRF     % Dev   -------------
37 t   1-Methylnaphthalene         1.198   1.571    -31.1#  92  -0.02    9.71

38 I   Fluorene-d10a               1.000   1.000      0.0   79  -0.02   12.64

           ----------------------- True    Calc.   % Drift  ------------
39 t   4,6-dinitro-2-methylpheno   2.500   1.759     29.6#  68   0.00   12.90

           ----------------------- AvgRF   CCRF     % Dev   -------------
40 t   1,2-Diphenylhydrazine       1.105   1.166     -5.5   74  -0.04   13.04
41 t   n-nitrosodiphenylamine      0.785   0.714      9.0   65   0.05   13.02
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------

   (#) = Out of Range               SPCC's out = 0  CCC's out = 0
    4m66183.D  M4M2974SIM.M       Sun Jul 10 12:26:02 2016   MANAGER
```

Initial Calibration Summary

Job Number: JC23443 **Sample:** E4P887-ICC887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P16670.D
Project: BMS-ICM, Humacao, PR

Response Factor Report MS4P

Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration

Calibration Files
2.5 =4p16677.D 1.0 =4p16670.D 0.5 =4p16669.D 0.2 =4p16671.D
0.1 =4p16672.D 0.05=4p16673.D 0.02=4p16674.D 0.01=4p16675.D
5 =4p16676.D = = =

Compound

	2.5	1.0	0.5	0.2	0.1	0.05	0.02	0.01	5	Avg	%RSD
1) I 1-Methylnaphthalene-d ----------ISTD----------											
2) 1,4-Dioxane	0.298	0.309	0.376	0.300	0.293	0.280			0.318	0.311	10.02
3) 2-Fluorophenol	0.457	0.573	0.582	0.624	0.582	0.560	0.533		0.472	0.548	10.51
4) Phenol-d5	0.815	1.018	1.121	1.108	0.962	0.852	0.791		0.736	0.925	15.99
5) Phenol	0.852	1.125	1.146	1.146	1.046	0.945	0.923		1.052	1.029	10.84
6) bis(2-Chloroethyl)ether	0.717	0.798	0.896	0.769	0.747	0.684	0.996	0.751	0.704	0.785	12.84
7) Nitrobenzene-d5	0.570	0.743	0.730	0.693	0.680	0.608	0.684		0.694	0.675	8.64
8) Naphthalene	2.446	2.679	2.910	2.907	2.591	2.528	2.515		2.546	2.640	6.76
9) Hexachlorobutadiene	0.364	0.463	0.474	0.448	0.437	0.431	0.512	0.534	0.408	0.452	11.41
10) 2-Methylnaphthalene	1.359	1.244	1.416	1.554	1.320	1.597			1.372	1.409	8.97
11) 1-Methylnaphthalene	1.552	1.607	1.836	1.951	1.733	1.774	1.878		1.645	1.747	7.96
12) Hexachlorocyclopentadiene	0.275	0.377	0.325	0.203	0.156	0.099			0.361	0.257	41.65

---- Quadratic regression ---- Coefficient = 0.9933
Response Ratio = 0.00784 + 0.23620 *A + 0.04776 *A^2

13) I Fluorene-d10 ----------ISTD----------											
14) 2-Fluorobiphenyl	0.966	0.743	1.097	1.305	1.095	1.206	1.107			1.074	16.73
15) Acenaphthylene	1.745	1.238	1.687	1.760	1.428	1.543			1.442	1.549	12.48
16) Acenaphthene	0.841	0.880	0.946	0.902	0.809	0.812	0.809	0.814	0.729	0.838	7.58
17) Dibenzofuran	1.634	1.126	1.491	1.925	1.271				1.244	1.449	20.49
18) Fluorene	0.958	1.042	1.097	1.084	1.060	1.152	1.017		0.855	1.033	8.92
19) 4,6-dinitro-2-methylphenol	0.102	0.069	0.060	0.041	0.024				0.105	0.067	48.46

---- Quadratic regression ---- Coefficient = 0.9978
Response Ratio = -0.01925 + 0.09877 *A + 0.00160 *A^2

20) n-nitrosodiphenylamine

Initial Calibration Summary

Job Number: JC23443 **Sample:** E4P887-ICC887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P16670.D
Project: BMS-ICM, Humacao, PR

```
          0.762 0.485 0.681 0.647 0.541 0.605 0.569       0.583        0.609   14.22
21)  1,2-Diphenylhydrazine
          1.177 0.924 1.077 0.994                         1.021        1.039    9.13
22)  2,4,6-Tribromophenol
          0.121 0.098 0.124 0.115                         0.094        0.111   12.41

23)     Fluoranthene-d10      ----------------ISTD---------------------
24)  Hexachlorobenzene
          0.231 0.239 0.249 0.243 0.221 0.221 0.245 0.241 0.220        0.234    4.96
25)  Pentachlorophenol
          0.093 0.097 0.088 0.063 0.041 0.041             0.106        0.075   35.83
           ---- Quadratic regression ----  Coefficient =  0.9994
             Response Ratio = -0.00213 + 0.08526 *A + 0.00337 *A^2

26)  Phenanthrene
          1.107 1.225 1.237 1.133 1.000 0.951 1.052 0.984 1.078        1.085    9.33
27)  Anthracene
          1.119 1.130 1.141 0.984 0.828                   1.114        1.053   11.80
28)  Fluoranthene
          1.216 1.270 1.312 1.257 1.202 1.197 1.374       1.189        1.252    5.19
29)  Pyrene
          1.228 1.283 1.311 1.186 1.020 0.994 1.012       1.173        1.151   10.98
30)  Terphenyl-d14
          0.503 0.574 0.576 0.576 0.503 0.477 0.460 0.420 0.421        0.501   12.60
31)  Benzo[a]anthracene
          0.837 0.949 0.971 0.797 0.654 0.632             0.873        0.816   16.30
32)  Chrysene
          1.031 1.085 1.114 1.021 0.866 0.804             0.999        0.989   11.46

33) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
34)  Benzo[b]fluoranthene
          1.398 1.482 1.598 1.353 1.233                   1.437        1.417    8.66
35)  Benzo[k]fluoranthene
          1.249 1.325 1.320 1.240 0.998                   1.221        1.226    9.76
36)  Benzo[a]pyrene
          1.232 1.272 1.402 1.319 1.332 1.185             1.224        1.281    5.85
37)  Indeno[1,2,3-cd]pyrene
          1.337 1.511 1.597 1.458 1.314                   1.322        1.423    8.24
38)  Dibenz[a,h]anthracene
          1.101 1.235 1.304 1.181 0.994                   1.103        1.153    9.55
39)  Benzo[g,h,i]perylene
          1.238 1.330 1.404 1.352 1.220                   1.217        1.294    6.12
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

         M4P887SIM.M        Mon Jun 06 15:50:33 2016
```

Initial Calibration Verification

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E4P887-ICV887
Lab FileID: 4P16678.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4P887\4p16678.D          Vial: 11
Acq On    :  6 Jun 2016   2:49 pm                   Operator: linseyk
Sample    : icv887-1                                Inst    : MS4P
Misc      : op94376a,e4p887                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4P887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Jun 06 15:07:18 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	1-Methylnaphthalene-d10	1.000	1.000	0.0	122	0.00	7.76
5	Phenol	1.029	0.716	30.4#	78	0.00	3.77
	----------	AvgRF	CCRF	% Dev	----------		
13 I	Fluorene-d10	1.000	1.000	0.0	69	0.00	10.71
	----------	True	Calc.	% Drift	----------		
19	4,6-dinitro-2-methylpheno	5.000	4.314	13.7	71	0.00	10.96
23	Fluoranthene-d10	1.000	1.000	0.0	94	0.00	14.90
	----------	True	Calc.	% Drift	----------		
25 t	Pentachlorophenol	5.000	4.100	18.0	69	0.00	12.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4p16670.D M4P887SIM.M Mon Jun 06 15:50:11 2016

Initial Calibration Verification

Job Number: JC23443 **Sample:** E4P887-ICV887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P16679.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4P887\4p16679.D          Vial: 12
Acq On    :  6 Jun 2016   3:19 pm                   Operator: linseyk
Sample    : icv887-1                                Inst    : MS4P
Misc      : op94376a,e4p887                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4P887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Jun 06 15:07:18 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	148	0.00	7.76
2	t	1,4-Dioxane	0.311	0.251	19.3	120	0.01	1.43
6	t	bis(2-Chloroethyl)ether	0.785	0.798	-1.7	148	0.00	3.85
8	t	Naphthalene	2.640	2.666	-1.0	147	0.00	6.34
9	t	Hexachlorobutadiene	0.452	0.370	18.1	118	0.00	6.65
10	t	2-Methylnaphthalene	1.409	1.356	3.8	161	0.00	7.65
		----------	AvgRF	CCRF	% Dev	----------		
13	I	Fluorene-d10	1.000	1.000	0.0	85	0.00	10.71
15	t	Acenaphthylene	1.549	1.887	-21.8	130	0.00	9.37
16	t	Acenaphthene	0.838	1.047	-24.9	102	0.00	9.73
17		Dibenzofuran	1.449	1.885	-30.1#	143	0.00	10.08
18	t	Fluorene	1.033	1.084	-4.9	89	0.00	10.76
		----------	AvgRF	CCRF	% Dev	----------		
20		n-nitrosodiphenylamine	0.609	0.804	-32.0#	142	0.00	11.08
21		1,2-Diphenylhydrazine	1.039	1.218	-17.2	112	0.00	11.13
23		Fluoranthene-d10	1.000	1.000	0.0	104	0.00	14.91
24	t	Hexachlorobenzene	0.234	0.262	-12.0	114	0.00	11.84
		----------	AvgRF	CCRF	% Dev	----------		
26	t	Phenanthrene	1.085	1.328	-22.4	113	-0.01	12.62
27	t	Anthracene	1.053	1.138	-8.1	105	-0.01	12.72
28	t	Fluoranthene	1.252	1.298	-3.7	107	0.00	14.94
29	t	Pyrene	1.151	1.229	-6.8	100	0.00	15.34
31	t	Benzo[a]anthracene	0.816	0.999	-22.4	110	0.00	17.45
32	t	Chrysene	0.989	1.121	-13.3	108	0.00	17.51
33	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	84	0.00	19.53
34	t	Benzo[b]fluoranthene	1.417	1.243	12.3	70	0.00	19.11
35	t	Benzo[k]fluoranthene	1.226	1.486	-21.2	94	0.00	19.15
36	t	Benzo[a]pyrene	1.281	1.304	-1.8	86	0.00	19.55
37	t	Indeno[1,2,3-cd]pyrene	1.423	1.389	2.4	77	0.00	20.97
38	t	Dibenz[a,h]anthracene	1.153	1.131	1.9	77	0.00	21.02
39	t	Benzo[g,h,i]perylene	1.294	1.325	-2.4	83	0.00	21.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4p16670.D M4P887SIM.M Mon Jun 06 15:50:13 2016

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E4P944-CC887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P17735.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4P944\4p17735.D          Vial: 2
Acq On    : 12 Jul 2016  12:21 pm                   Operator: ashleyd
Sample    : cc887-0.5                               Inst    : MS4P
Misc      : op95217a,e4p944                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4P887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 15:04:08 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	91	0.00	7.27
2	t	1,4-Dioxane	0.311	0.316	-1.6	76	-0.14	1.19
3	S	2-Fluorophenol	0.548	0.533	2.7	83	-0.19	2.29
4	S	Phenol-d5	0.925	0.890	3.8	72	-0.14	3.38
5		Phenol	1.029	0.892	13.3	70	-0.14	3.39
6	t	bis(2-Chloroethyl)ether	0.785	0.800	-1.9	81	-0.01	3.46
7	S	Nitrobenzene-d5	0.675	0.739	-9.5	92	-0.12	4.62
8	t	Naphthalene	2.640	2.268	14.1	71	-0.08	5.87
9	t	Hexachlorobutadiene	0.452	0.376	16.8	72	-0.06	6.17
10	t	2-Methylnaphthalene	1.409	1.114	20.9#	71	0.01	7.18
11	t	1-Methylnaphthalene	1.747	1.459	16.5	72	0.00	7.34
		----------	True	Calc.	% Drift		----------	
12		Hexachlorocyclopentadiene	1.000	0.561	43.9#	47	0.02	7.52
		----------	AvgRF	CCRF	% Dev		----------	
13	I	Fluorene-d10	1.000	1.000	0.0	63	-0.03	10.19
14	S	2-Fluorobiphenyl	1.074	1.231	-14.6	71	-0.10	7.93
15	t	Acenaphthylene	1.549	1.415	8.7	53	-0.03	8.87
16	t	Acenaphthene	0.838	1.218	-45.3#	81	-0.06	9.22
17		Dibenzofuran	1.449	1.490	-2.8	63	-0.02	9.58
18	t	Fluorene	1.033	1.287	-24.6#	74	-0.02	10.23
		----------	True	Calc.	% Drift		----------	
19		4,6-dinitro-2-methylpheno	2.500	2.536	-1.4	73	0.04	10.48
		----------	AvgRF	CCRF	% Dev		----------	
20		n-nitrosodiphenylamine	0.609	0.756	-24.1#	70	0.04	10.61
21		1,2-Diphenylhydrazine	1.039	0.904	13.0	53	0.02	10.63
22	S	2,4,6-Tribromophenol	0.111	0.152	-36.9#	77	0.02	10.73
23		Fluoranthene-d10	1.000	1.000	0.0	82	0.00	14.42
24	t	Hexachlorobenzene	0.234	0.237	-1.3	78	-0.10	11.34
		----------	True	Calc.	% Drift		----------	
25	t	Pentachlorophenol	2.500	3.126	-25.0#	100	-0.08	11.78
		----------	AvgRF	CCRF	% Dev		----------	
26	t	Phenanthrene	1.085	1.008	7.1	67	-0.05	12.11
27	t	Anthracene	1.053	0.992	5.8	71	-0.10	12.21
28	t	Fluoranthene	1.252	1.152	8.0	72	-0.01	14.43

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E4P944-CC887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P17735.D
Project: BMS-ICM, Humacao, PR

29	t	Pyrene	1.151	1.123	2.4	70	0.00	14.83
30	S	Terphenyl-d14	0.501	0.600	-19.8	86	0.00	15.30
31	t	Benzo[a]anthracene	0.816	0.706	13.5	60	0.00	17.00
32	t	Chrysene	0.989	1.084	-9.6	80	0.00	17.06
33	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	76	0.00	19.08
34	t	Benzo[b]fluoranthene	1.417	1.287	9.2	62	0.00	18.66
35	t	Benzo[k]fluoranthene	1.226	1.387	-13.1	80	0.00	18.71
36	t	Benzo[a]pyrene	1.281	1.273	0.6	69	-0.02	19.10
37	t	Indeno[1,2,3-cd]pyrene	1.423	1.387	2.5	66	0.02	20.53
38	t	Dibenz[a,h]anthracene	1.153	1.133	1.7	66	0.00	20.57
39	t	Benzo[g,h,i]perylene	1.294	1.291	0.2	70	0.01	20.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4p16669.D M4P887SIM.M Tue Jul 12 15:04:39 2016

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E4P946-CC887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P17769.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4P946\4p17769.D          Vial: 2
Acq On    : 13 Jul 2016   5:16 pm                   Operator: ashleyd
Sample    : cc887-0.5                               Inst    : MS4P
Misc      : op95217a,e4p946                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4P887SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jul 14 17:30:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	87	0.00	7.26
2	t	1,4-Dioxane	0.311	0.355	-14.1	82	0.00	1.18
3	S	2-Fluorophenol	0.548	0.601	-9.7	90	-0.20	2.28
4	S	Phenol-d5	0.925	0.985	-6.5	77	-0.15	3.36
5		Phenol	1.029	1.026	0.3	78	-0.15	3.38
6	t	bis(2-Chloroethyl)ether	0.785	0.929	-18.3	90	-0.02	3.43
7	S	Nitrobenzene-d5	0.675	0.787	-16.6	94	-0.14	4.60
8	t	Naphthalene	2.640	2.631	0.3	79	-0.09	5.84
9	t	Hexachlorobutadiene	0.452	0.450	0.4	83	-0.07	6.15
10	t	2-Methylnaphthalene	1.409	1.400	0.6	86	0.00	7.14
11	t	1-Methylnaphthalene	1.747	1.480	15.3	70	-0.02	7.30
		----------	True	Calc.	% Drift	----------		
12		Hexachlorocyclopentadiene	1.000	0.831	16.9	63	0.00	7.49
		----------	AvgRF	CCRF	% Dev	----------		
13	I	Fluorene-d10	1.000	1.000	0.0	82	0.00	10.17
14	S	2-Fluorobiphenyl	1.074	0.976	9.1	73	-0.08	7.92
15	t	Acenaphthylene	1.549	1.517	2.1	74	-0.03	8.84
16	t	Acenaphthene	0.838	0.980	-16.9	85	-0.06	9.18
17		Dibenzofuran	1.449	1.398	3.5	77	-0.02	9.55
18	t	Fluorene	1.033	1.040	-0.7	78	0.00	10.22
		----------	True	Calc.	% Drift	----------		
19		4,6-dinitro-2-methylpheno	2.500	2.562	-2.5	97	0.06	10.47
		----------	AvgRF	CCRF	% Dev	----------		
20		n-nitrosodiphenylamine	0.609	0.631	-3.6	76	0.06	10.58
21		1,2-Diphenylhydrazine	1.039	0.926	10.9	71	0.03	10.60
22	S	2,4,6-Tribromophenol	0.111	0.130	-17.1	86	0.04	10.71
23		Fluoranthene-d10	1.000	1.000	0.0	91	-0.02	14.38
24	t	Hexachlorobenzene	0.234	0.226	3.4	83	0.00	11.30
		----------	True	Calc.	% Drift	----------		
25	t	Pentachlorophenol	2.500	2.554	-2.2	89	-0.07	11.78
		----------	AvgRF	CCRF	% Dev	----------		
26	t	Phenanthrene	1.085	1.023	5.7	76	0.00	12.09
27	t	Anthracene	1.053	0.989	6.1	79	0.00	12.19
28	t	Fluoranthene	1.252	1.183	5.5	82	-0.02	14.41

Continuing Calibration Summary

Job Number: JC23443 **Sample:** E4P946-CC887
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4P17769.D
Project: BMS-ICM, Humacao, PR

29	t	Pyrene	1.151	1.178	-2.3	82	0.00	14.81
30	S	Terphenyl-d14	0.501	0.577	-15.2	92	0.00	15.27
31	t	Benzo[a]anthracene	0.816	0.814	0.2	77	0.00	16.98
32	t	Chrysene	0.989	1.073	-8.5	88	0.00	17.03
33	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	88	0.00	19.05
34	t	Benzo[b]fluoranthene	1.417	1.211	14.5	67	0.01	18.64
35	t	Benzo[k]fluoranthene	1.226	1.467	-19.7	98	0.00	18.68
36	t	Benzo[a]pyrene	1.281	1.295	-1.1	81	0.00	19.08
37	t	Indeno[1,2,3-cd]pyrene	1.423	1.435	-0.8	79	0.02	20.51
38	t	Dibenz[a,h]anthracene	1.153	1.148	0.4	78	0.02	20.55
39	t	Benzo[g,h,i]perylene	1.294	1.284	0.8	81	0.01	20.79

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4p16669.D M4P887SIM.M Thu Jul 14 17:39:59 2016

6.7.18

6

Initial Calibration Summary

Job Number: JC23443 **Sample:** EP4667-ICC4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105693.D
Project: BMS-ICM, Humacao, PR

Response Factor Report MSP

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:46:23 2016
Response via : Initial Calibration

Calibration Files
2 =P105689.D 5 =P105690.D 25 =P105692.D 80 =P105694.D
100 =P105695.D 50 =P105693.D 10 =P105691.D 1 =P105688.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD					
2) 1,4-Dioxane	0.845	0.807	0.858	0.830	0.859	0.853	0.821	0.997	0.859	6.86
3) Pyridine	2.023	1.894	2.047	1.938	1.962	2.017	1.981	2.032	1.987	2.66
4) N-Nitrosodim	0.613	0.592	0.620	0.607	0.603	0.616	0.568	0.602	0.603	2.75
5) 2-Fluorophen	1.423	1.519	1.533	1.472	1.510	1.537	1.483	1.574	1.506	3.09
6) Indene	2.626	2.602	2.399	1.667	1.658	2.020	2.540	2.661	2.272	18.82
7) Cumene	3.794	3.683	3.515	2.698	2.724	3.109	3.581	3.690	3.349	13.26
8) Phenol-d5	2.041	2.058	2.113	1.798	1.841	1.969	2.055	2.123	2.000	6.07
9) Phenol	2.721	2.360	2.427	1.945	1.972	2.205	2.331	2.754	2.339	12.87
10) Aniline	2.891	2.935	2.634	2.127	2.161	2.367	2.725	2.862	2.588	12.66
11) bis(2-Chloro	1.787	1.677	1.567	1.296	1.331	1.431	1.647	1.706	1.555	11.72
12) 2-Chlorophen	1.617	1.610	1.470	1.214	1.251	1.351	1.549	1.624	1.461	11.52
13) Decane	1.801	1.698	1.498	1.106	1.104	1.283	1.585	1.803	1.485	19.49
14) 1,3-Dichloro	1.620	1.506	1.456	1.234	1.267	1.362	1.474	1.523	1.431	9.26
15) 1,4-Dichloro	1.417	1.439	1.376	1.153	1.194	1.269	1.390	1.471	1.339	8.84
16) Benzyl alcoh	1.007	0.968	1.011	0.882	0.891	0.965	0.942	0.932	0.950	5.04
17) 1,2-Dichloro	1.372	1.413	1.332	1.026	1.056	1.188	1.367	1.421	1.272	12.58
18) Acetophenone	2.057	1.993	1.788	1.194		1.489	1.920	2.041	1.783	18.28
19) 2-Methylphen	1.494	1.423	1.378	1.078	1.089	1.259	1.348	1.390	1.307	11.72
20) 2,2'-oxybis(	0.510	0.464	0.437	0.368	0.381	0.400	0.443	0.466	0.434	11.03
21) 3&4-Methylph	1.508	1.529	1.456	1.033	1.016	1.242	1.456	1.512	1.344	16.14
22) n-Nitroso-di	1.116	1.034	0.903	0.644		0.753	1.003	1.068	0.932	18.76
23) Hexachloroet	0.424	0.410	0.409	0.387	0.401	0.399	0.397	0.364	0.399	4.47
24) I Naphthalene-d8					ISTD					
25) Nitrobenzene	0.423	0.411	0.397	0.347	0.335	0.374	0.392	0.408	0.386	8.13
26) Nitrobenzene	0.430	0.421	0.413	0.334	0.327	0.372	0.423	0.426	0.393	10.91
27) Quinoline	0.773	0.791	0.772	0.691	0.684	0.735	0.776	0.764	0.748	5.43
28) Isophorone	0.791	0.804	0.783	0.652	0.632	0.723	0.768	0.793	0.743	9.05
29) 2-Nitropheno	0.190	0.186	0.212	0.177	0.173	0.201	0.194	0.189	0.190	6.51
30) 2,4-Dimethyl	0.381	0.397	0.369	0.297	0.298	0.336	0.384	0.404	0.358	11.91
31) Benzoic acid		0.232	0.279	0.306	0.306	0.296	0.241		0.277	11.86
32) bis(2-Chloro	0.544	0.540	0.493	0.402	0.390	0.444	0.510	0.540	0.483	13.05
33) 2,4-Dichloro	0.280	0.287	0.299	0.263	0.260	0.288	0.291	0.287	0.282	4.76
34) 2,6-Dichloro	0.276	0.283	0.280	0.228	0.225	0.255	0.271	0.285	0.263	9.25
35) 1,3,5-Trichl	0.315	0.334	0.308	0.244	0.236	0.275	0.306	0.331	0.294	12.92
36) 1,2,4-Trichl	0.306	0.319	0.293	0.251	0.244	0.273	0.294	0.299	0.285	9.31
37) 1,2,3-Trichl	0.282	0.286	0.277	0.232	0.230	0.258	0.287	0.319	0.271	11.10
38) Naphthalene	1.096	1.078	0.997	0.738	0.710	0.869	1.022	1.062	0.946	16.29
39) 4-Chloroanil	0.475	0.493	0.457	0.339	0.330	0.406	0.472	0.467	0.430	14.86
40) 2,3-Dichloro	0.361	0.375	0.346	0.259	0.250	0.299	0.353	0.386	0.329	15.98
41) Caprolactam	0.198	0.203	0.199	0.191	0.184	0.193	0.190	0.188	0.193	3.27
42) Hexachlorobu	0.137	0.140	0.136	0.123	0.121	0.132	0.132	0.138	0.132	5.21
43) 4-Chloro-3-m	0.310	0.323	0.335	0.290	0.286	0.318	0.335	0.319	0.315	5.84
44) 2-Methylnaph	0.581	0.578	0.561	0.445	0.428	0.507	0.573	0.574	0.531	11.86
45) 1-Methylnaph	0.729	0.748	0.695	0.543	0.538	0.625	0.712	0.702	0.661	12.51

Initial Calibration Summary

Job Number: JC23443 **Sample:** EP4667-ICC4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105693.D
Project: BMS-ICM, Humacao, PR

```
46) Dimethylnaph 0.614 0.626 0.585 0.463 0.450 0.524 0.584 0.591 0.555  12.17

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.140 0.179 0.227 0.216 0.210 0.228 0.202       0.200  15.68
49) 2,4,6-Trichl 0.306 0.308 0.314 0.260 0.262 0.291 0.310 0.301 0.294   7.30
50) 2,4,5-Trichl 0.308 0.312 0.304 0.290 0.292 0.305 0.303 0.312 0.303   2.76
51) 2-Fluorobiph 1.130 1.086 1.041 0.852 0.838 0.939 1.079 1.168 1.017  12.33
52) 2-Chloronaph 1.043 0.997 0.929 0.756 0.748 0.816 0.971 1.104 0.920  14.52
53) Biphenyl     1.445 1.405 1.318 1.019 1.015 1.171 1.371 1.488 1.279  14.65
54) 2-Nitroanili 0.323 0.335 0.340 0.316 0.310 0.328 0.341 0.323 0.327   3.36
55) Dimethylphth 1.041 1.053 0.998 0.900 0.901 0.952 1.008 1.033 0.986   6.19
56) Acenaphthyle 1.664 1.701 1.646 1.334 1.312 1.493 1.688 1.730 1.571  10.75
57) 2,6-Dinitrot 0.169 0.202 0.233 0.235 0.237 0.234 0.207 0.180 0.212  12.70
58) 3-Nitroanili 0.283 0.311 0.333 0.334 0.335 0.334 0.308 0.295 0.317   6.45
59) Acenaphthene 0.975 0.976 0.965 0.800 0.799 0.878 0.981 1.061 0.929  10.13
60) 2,4-Dinitrop 0.032 0.058 0.116 0.145 0.145 0.133 0.076 0.027 0.091  54.14
         ----- Quadratic regression -----                Coefficient =  0.9990
              Response Ratio = -0.01505 + 0.12761 *A + 0.00442 *A^2

61) 4-Nitropheno 0.076 0.091 0.115 0.119 0.115 0.115 0.103 0.080 0.102  17.04
62) Dibenzofuran 1.376 1.397 1.325 1.097 1.094 1.213 1.371 1.463 1.292  10.88
63) 2,4-Dinitrot 0.229 0.272 0.314 0.314 0.317 0.319 0.290 0.217 0.284  14.51
64) 2,3,4,6-Tetr 0.193 0.204 0.241 0.252 0.251 0.246 0.223 0.209 0.227  10.21
65) Diethylphtha 1.023 1.063 1.064 0.940 0.939 1.001 1.051 1.059 1.017   5.20
66) Fluorene     1.179 1.175 1.106 0.846 0.832 0.958 1.149 1.142 1.048  14.02
67) 4-Chlorophen 0.517 0.485 0.462 0.392 0.382 0.423 0.471 0.486 0.452  10.69
68) 4-Nitroanili 0.276 0.306 0.320 0.320 0.321 0.315 0.306 0.271 0.304   6.53

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.041 0.066 0.100 0.115 0.115 0.111 0.073 0.033 0.082  40.78
         ----- Quadratic regression -----                Coefficient =  0.9994
              Response Ratio = -0.00518 + 0.11038 *A + 0.00310 *A^2

71) n-Nitrosodip 0.460 0.459 0.450 0.406 0.409 0.425 0.436 0.459 0.438   5.16
72) 1,2-Diphenyl 0.839 0.866 0.826 0.654 0.634 0.732 0.830 0.811 0.774  11.51
73) 2,4,6-Tribro 0.040 0.046 0.053 0.058 0.058 0.056 0.052 0.047 0.051  12.22
74) 4-Bromopheny 0.152 0.146 0.153 0.148 0.153 0.149 0.143 0.149 0.149   2.44
75) Hexachlorobe 0.146 0.135 0.149 0.139 0.142 0.140 0.141 0.144 0.142   3.18
76) Pentachlorop 0.067 0.077 0.098 0.096 0.099 0.101 0.088 0.070 0.087  15.99
77) Phenanthrene 0.869 0.889 0.882 0.764 0.760 0.820 0.870 0.898 0.844   6.61
78) Anthracene   0.879 0.881 0.914 0.788 0.797 0.851 0.876 0.832 0.852   5.16
79) Carbazole    0.912 0.943 0.980 0.847 0.846 0.914 0.939 0.969 0.919   5.47
80) Di-n-butylph 0.996 1.048 1.152 1.021 1.022 1.102 1.060 1.138 1.067   5.38
81) Fluoranthene 0.891 0.941 0.998 0.912 0.900 0.966 0.945 0.920 0.934   3.84
82) Octadecane   0.562 0.589 0.593 0.466 0.448 0.518 0.582 0.579 0.542  10.70

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.387 1.377 1.397 1.258 1.261 1.313 1.374 1.393 1.345   4.38
85) Terphenyl-d1 0.691 0.678 0.722 0.710 0.724 0.714 0.685 0.881 0.726   8.97
86) Butylbenzylp 0.558 0.576 0.654 0.665 0.677 0.669 0.587 0.655 0.630   7.59
87) Benzo[a]anth 1.102 1.058 1.081 1.060 1.094 1.071 1.022 1.186 1.084   4.42
88) 3,3'-Dichlor 0.295 0.317 0.356 0.386 0.394 0.374 0.320 0.287 0.341  12.22
89) Chrysene     1.011 1.004 1.014 0.975 0.989 0.992 0.999 1.060 1.005   2.53
90) bis(2-Ethylh 0.655 0.705 0.851 0.856 0.882 0.863 0.744 0.863 0.802  10.88

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.325 1.412 1.782 1.822 1.853 1.850 1.505 1.781 1.666  12.97
93) Benzo[b]fluo 1.171 1.176 1.266 1.243 1.286 1.264 1.195 1.306 1.239   4.14
94) Benzo[k]fluo 1.219 1.127 1.155 1.117 1.119 1.129 1.153 1.361 1.172   7.09
95) Benzo[a]pyre 1.112 1.028 1.110 1.136 1.155 1.145 1.049 1.253 1.123   6.16
```

Initial Calibration Summary

Job Number: JC23443 **Sample:** EP4667-ICC4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105693.D
Project: BMS-ICM, Humacao, PR

96)	Indeno[1,2,3	0.842	0.797	0.885	0.934	0.980	0.918	0.808	1.056	0.903	9.81
97)	Dibenz(a,h)a	0.752	0.741	0.826	0.887	0.915	0.874	0.741	0.886	0.828	8.84
98)	Dibenz[a,h]a	0.826	0.850	0.912	0.936	0.981	0.940	0.842	1.070	0.920	8.88
99)	7,12-Dimethy	0.544	0.534	0.571	0.571	0.587	0.576	0.539	0.656	0.572	6.79
100)	Benzo[g,h,i]	0.898	0.905	0.978	1.009	1.054	1.013	0.919	1.131	0.988	8.18

(#) = Out of Range ### Number of calibration levels exceeded format ###

MP4667.M Tue Jun 28 18:48:45 2016

Initial Calibration Verification

Job Number: JC23443 **Sample:** EP4668-ICV4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105705.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4668\P105705.D          Vial: 10
Acq On    : 28 Jun 2016  10:54 pm                   Operator: ashleyd
Sample    : icv4667-50                              Inst    : MSP
Misc      : op93881,ep4668                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 29 10:44:21 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	4.73
9	t	Phenol	2.339	2.044	12.6	97	0.00	4.46
12	t	2-Chlorophenol	1.461	1.369	6.3	106	0.00	4.57
19	t	2-Methylphenol	1.307	1.323	-1.2	110	0.00	4.90
21	t	3&4-Methylphenol	1.344	1.372	-2.1	115	0.00	5.01
24	I	Naphthalene-d8	1.000	1.000	0.0	100	0.00	5.65
29	t	2-Nitrophenol	0.190	0.190	0.0	95	0.00	5.37
30	t	2,4-Dimethylphenol	0.358	0.348	2.8	104	0.00	5.39
31	t	Benzoic acid	0.277	0.259	6.5	87	0.00	5.47
33	t	2,4-Dichlorophenol	0.282	0.270	4.3	94	0.00	5.54
34		2,6-Dichlorophenol	0.263	0.262	0.4	103	0.00	5.70
43	t	4-Chloro-3-methylphenol	0.315	0.307	2.5	97	0.00	6.04
47	I	Acenaphthene-d10	1.000	1.000	0.0	90	0.00	7.07
49	t	2,4,6-Trichlorophenol	0.294	0.323	-9.9	100	0.00	6.38
50	t	2,4,5-Trichlorophenol	0.303	0.310	-2.3	92	0.00	6.41
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	41.882	16.2	68	0.00	7.12
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.102	0.124	-21.6	97	0.00	7.17
64		2,3,4,6-Tetrachlorophenol	0.227	0.231	-1.8	85	0.00	7.40
69	I	Phenanthrene-d10	1.000	1.000	0.0	86	0.00	8.96
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	47.405	5.2	80	0.00	7.72
		----------	AvgRF	CCRF	% Dev	----------		
76	t	Pentachlorophenol	0.087	0.098	-12.6	84	0.00	8.66

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF P10 MP4667.M Wed Jun 29 15:27:43 2016

Initial Calibration Verification

Job Number: JC23443 **Sample:** EP4668-ICV4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105707.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4668\P105707.D          Vial: 12
Acq On    : 28 Jun 2016  11:52 pm                   Operator: ashleyd
Sample    : icv4667-50                              Inst    : MSP
Misc      : op93881,ep4668                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 29 10:44:21 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	4.73
5	S	2-Fluorophenol	1.506	1.502	0.3	107	0.00	3.74
8	S	Phenol-d5	2.000	1.964	1.8	109	0.00	4.45
24	I	Naphthalene-d8	1.000	1.000	0.0	108	0.00	5.65
25	S	Nitrobenzene-d5	0.386	0.425	-10.1	122	0.00	5.13
47	I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00	7.07
51	S	2-Fluorobiphenyl	1.017	1.191	-17.1	117	0.00	6.45
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	88	0.00	8.95
		----------	AvgRF	CCRF	% Dev	----------		
73	S	2,4,6-Tribromophenol	0.051	0.056	-9.8	90	0.00	7.96
83	I	Chrysene-d12	1.000	1.000	0.0	91	-0.01	14.22
85	S	Terphenyl-d14	0.726	0.753	-3.7	96	0.00	12.01
91	I	Perylene-d12	1.000	1.000	0.0	88	0.00	17.26

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF P10 MP4667.M Wed Jun 29 15:27:44 2016

Initial Calibration Verification

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: EP4668-ICV4667
Lab FileID: P105708.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4668\P105708.D          Vial: 13
Acq On    : 29 Jun 2016  12:21 am                   Operator: ashleyd
Sample    : icV4667-50                              Inst    : MSP
Misc      : op93881,ep4668                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 29 10:44:21 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83 I	Chrysene-d12	1.000	1.000	0.0	94	-0.01	14.22
88 t	3,3'-Dichlorobenzidine	0.341	0.335	1.8	85	0.00	14.25

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF P10 MP4667.M Wed Jun 29 15:27:45 2016

Initial Calibration Verification

Job Number: JC23443 **Sample:** EP4668-ICV4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105709.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP4668\P105709.D Vial: 14
Acq On : 29 Jun 2016 12:50 am Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	4.73
4	t	N-Nitrosodimethylamine	0.603	0.658	-9.1	104	0.00	2.59
11	t	bis(2-Chloroethyl)ether	1.555	1.845	-18.6	125	0.00	4.53
14	t	1,3-Dichlorobenzene	1.431	1.479	-3.4	105	0.00	4.68
15	t	1,4-Dichlorobenzene	1.339	1.345	-0.4	103	0.00	4.74
17	t	1,2-Dichlorobenzene	1.272	1.361	-7.0	111	0.00	4.85
20	t	2,2'-oxybis(1-Chloropropa	0.434	0.469	-8.1	113	0.00	4.92
22		n-Nitroso-di-n-propylamin	0.932	1.077	-15.6	138	0.00	5.01
23	t	Hexachloroethane	0.399	0.418	-4.8	101	0.00	5.09
24	I	Naphthalene-d8	1.000	1.000	0.0	94	0.00	5.65
26	t	Nitrobenzene	0.393	0.421	-7.1	107	0.00	5.14
28	t	Isophorone	0.743	0.794	-6.9	104	0.00	5.31
32	t	bis(2-Chloroethoxy)methan	0.483	0.549	-13.7	117	0.00	5.46
36	t	1,2,4-Trichlorobenzene	0.285	0.303	-6.3	105	0.00	5.60
38	t	Naphthalene	0.946	0.963	-1.8	105	0.00	5.66
42	t	Hexachlorobutadiene	0.132	0.143	-8.3	103	0.00	5.75
47	I	Acenaphthene-d10	1.000	1.000	0.0	84	0.00	7.07
48	t	Hexachlorocyclopentadiene	0.200	0.222	-11.0	82	0.00	6.28
52	t	2-Chloronaphthalene	0.920	1.085	-17.9	111	0.00	6.55
55	t	Dimethylphthalate	0.986	1.141	-15.7	100	0.00	6.80
56	t	Acenaphthylene	1.571	1.718	-9.4	96	0.00	6.93
57	t	2,6-Dinitrotoluene	0.212	0.259	-22.2	93	0.00	6.86
59	t	Acenaphthene	0.929	1.063	-14.4	101	0.00	7.10
		----------	AvgRF	CCRF	% Dev	----------		
63	t	2,4-Dinitrotoluene	0.284	0.328	-15.5	86	0.00	7.26
65	t	Diethylphthalate	1.017	1.197	-17.7	100	-0.01	7.53
66	t	Fluorene	1.048	1.141	-8.9	100	0.00	7.66
67	t	4-Chlorophenyl-phenylethe	0.452	0.513	-13.5	101	0.00	7.66
69	I	Phenanthrene-d10	1.000	1.000	0.0	86	0.00	8.96
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.438	0.503	-14.8	102	0.00	7.81
72	t	1,2-Diphenylhydrazine	0.774	0.858	-10.9	101	0.00	7.86
74	t	4-Bromophenyl-phenylether	0.149	0.176	-18.1	101	0.00	8.30
75	t	Hexachlorobenzene	0.142	0.162	-14.1	99	0.00	8.38
77	t	Phenanthrene	0.844	0.960	-13.7	101	0.00	8.99
78	t	Anthracene	0.852	0.949	-11.4	96	0.00	9.07
80	t	Di-n-butylphthalate	1.067	1.244	-16.6	97	0.00	10.05

Initial Calibration Verification

Job Number: JC23443 **Sample:** EP4668-ICV4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105709.D
Project: BMS-ICM, Humacao, PR

81	t	Fluoranthene	0.934	1.071	-14.7	95	0.00	11.14
83	I	Chrysene-d12	1.000	1.000	0.0	92	0.00	14.23
84	t	Pyrene	1.345	1.408	-4.7	99	0.00	11.58
86	t	Butylbenzylphthalate	0.630	0.685	-8.7	94	0.00	13.19
87	t	Benzo[a]anthracene	1.084	1.098	-1.3	95	0.00	14.20
89	t	Chrysene	1.005	0.998	0.7	93	0.00	14.28
90	t	bis(2-Ethylhexyl)phthalat	0.802	0.879	-9.6	94	0.00	14.60
91	I	Perylene-d12	1.000	1.000	0.0	92	0.00	17.26
92	t	Di-n-octylphthalate	1.666	1.856	-11.4	93	0.00	16.05
93	t	Benzo[b]fluoranthene	1.239	1.214	2.0	89	0.00	16.52
94	t	Benzo[k]fluoranthene	1.172	1.214	-3.6	99	-0.01	16.57
95	t	Benzo[a]pyrene	1.123	1.162	-3.5	94	0.00	17.15
96	t	Indeno[1,2,3-cd]pyrene	0.903	0.932	-3.2	94	0.00	19.20
98	t	Dibenz[a,h]anthracene	0.920	0.943	-2.5	93	0.00	19.27
100	t	Benzo[g,h,i]perylene	0.988	1.030	-4.3	94	0.00	19.63

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF P10 MP4667.M Wed Jun 29 15:27:46 2016

Initial Calibration Verification

Job Number: JC23443 **Sample:** EP4669-ICV4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105714.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4669\P105714.D          Vial: 2
Acq On    : 29 Jun 2016  11:15 am                   Operator: ashleyd
Sample    : icv4667-50                              Inst    : MSP
Misc      : op93881,ep4669                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 29 10:44:21 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	4.73
3	t	Pyridine	1.987	2.310	-16.3	115	0.07	2.70
10	t	Aniline	2.588	2.866	-10.7	121	0.00	4.49
16	t	Benzyl alcohol	0.950	1.137	-19.7	118	0.00	4.83
24	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00	5.65
39	t	4-Chloroaniline	0.430	0.438	-1.9	119	0.00	5.70
44	t	2-Methylnaphthalene	0.531	0.497	6.4	108	0.00	6.16
47	I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00	7.07
54	t	2-Nitroaniline	0.327	0.420	-28.4	119	0.00	6.64
58	t	3-Nitroaniline	0.317	0.402	-26.8	111	0.00	7.02
		----------	AvgRF	CCRF	% Dev	----------		
62	t	Dibenzofuran	1.292	1.510	-16.9	115	0.00	7.28
68	t	4-Nitroaniline	0.304	0.410	-34.9#	120	0.00	7.69
69	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00	8.96
		----------	AvgRF	CCRF	% Dev	----------		
79	t	Carbazole	0.919	1.060	-15.3	111	0.00	9.36
83	I	Chrysene-d12	1.000	1.000	0.0	102	0.00	14.22
91	I	Perylene-d12	1.000	1.000	0.0	94	0.00	17.26

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF P10 MP4667.M Wed Jun 29 15:49:17 2016

Initial Calibration Verification

Job Number: JC23443 **Sample:** EP4669-ICV4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105715.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4669\P105715.D          Vial: 3
Acq On    : 29 Jun 2016  11:50 am                   Operator: ashleyd
Sample    : icv4667-50                              Inst    : MSP
Misc      : op93881,ep4669                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jun 29 10:44:21 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  48%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	4.73
2	t	1,4-Dioxane	0.859	0.853	0.7	104	0.00	2.31
6	t	Indene	2.272	2.374	-4.5	123	0.00	4.91
7	t	Cumene	3.349	3.053	8.8	103	0.00	4.14
13	t	Decane	1.485	1.371	7.7	112	0.00	4.60
18	t	Acetophenone	1.783	1.830	-2.6	128	0.00	5.02
24	I	Naphthalene-d8	1.000	1.000	0.0	121	0.00	5.65
27	t	Quinoline	0.748	0.617	17.5	101	-0.01	5.90
40	t	2,3-Dichloroaniline	0.329	0.262	20.4	106	0.00	6.38
41	t	Caprolactam	0.193	0.165	14.5	103	-0.03	5.93
45	t	1-Methylnaphthalene	0.661	0.546	17.4	105	0.00	6.24
46	t	Dimethylnaphthalene	0.555	0.460	17.1	106	0.00	6.67
47	I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00	7.07
53	t	Biphenyl	1.279	1.336	-4.5	105	0.00	6.54
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	85	0.00	8.96
		----------	AvgRF	CCRF	% Dev	----------		
82	t	Octadecane	0.542	0.663	-22.3	109	0.00	8.85
83	I	Chrysene-d12	1.000	1.000	0.0	94	0.00	14.22
91	I	Perylene-d12	1.000	1.000	0.0	88	0.00	17.26
99	t	7,12-Dimethylbenz(a)anthr	0.572	0.535	6.5	82	-0.01	16.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
COPY OF P10 MP4667.M Wed Jun 29 15:52:46 2016

Continuing Calibration Summary

Job Number: JC23443 **Sample:** EP4679-CC4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105950.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP4679\P105950.D Vial: 2
Acq On : 8 Jul 2016 11:18 am Operator: brittanp
Sample : cc4667-25 Inst : MSP
Misc : op93881,ep4679 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 08 12:04:46 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 48% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	-0.02	4.64
2	t	1,4-Dioxane	0.859	0.713	17.0	94	-0.06	2.19
3	t	Pyridine	1.987	1.658	16.6	91	-0.06	2.51
4	t	N-Nitrosodimethylamine	0.603	0.927	-53.7#	168	-0.06	2.48
5	S	2-Fluorophenol	1.506	1.384	8.1	102	-0.04	3.65
6	t	Indene	2.272	2.169	4.5	102	-0.02	4.83
7	t	Cumene	3.349	3.457	-3.2	111	-0.03	4.04
8	S	Phenol-d5	2.000	1.834	8.3	98	-0.03	4.38
9	t	Phenol	2.339	2.082	11.0	97	-0.03	4.39
10	t	Aniline	2.588	2.110	18.5	90	-0.03	4.40
11	t	bis(2-Chloroethyl)ether	1.555	1.360	12.5	98	-0.02	4.45
12	t	2-Chlorophenol	1.461	1.339	8.4	102	-0.03	4.49
13	t	Decane	1.485	1.742	-17.3	131	-0.02	4.52
14	t	1,3-Dichlorobenzene	1.431	1.420	0.8	110	-0.02	4.60
15	t	1,4-Dichlorobenzene	1.339	1.329	0.7	109	-0.03	4.65
16	t	Benzyl alcohol	0.950	0.887	6.6	99	-0.03	4.74
17	t	1,2-Dichlorobenzene	1.272	1.263	0.7	107	-0.02	4.76
18	t	Acetophenone	1.783	1.756	1.5	111	-0.02	4.93
19	t	2-Methylphenol	1.307	1.110	15.1	91	-0.03	4.83
20	t	2,2'-oxybis(1-Chloropropa	0.434	0.400	7.8	103	-0.02	4.84
21	t	3&4-Methylphenol	1.344	1.212	9.8	94	-0.02	4.94
22		n-Nitroso-di-n-propylamin	0.932	0.964	-3.4	120	-0.02	4.93
23	t	Hexachloroethane	0.399	0.535	-34.1#	147	-0.02	5.01
24	I	Naphthalene-d8	1.000	1.000	0.0	109	-0.02	5.56
25	S	Nitrobenzene-d5	0.386	0.468	-21.2#	128	-0.03	5.04
26	t	Nitrobenzene	0.393	0.477	-21.4#	126	-0.02	5.06
27	t	Quinoline	0.748	0.761	-1.7	107	-0.01	5.82
28	t	Isophorone	0.743	0.813	-9.4	113	-0.02	5.23
29	t	2-Nitrophenol	0.190	0.214	-12.6	110	-0.02	5.29
30	t	2,4-Dimethylphenol	0.358	0.403	-12.6	119	-0.02	5.32
31	t	Benzoic acid	0.277	0.318	-14.8	124	0.00	5.40
32	t	bis(2-Chloroethoxy)methan	0.483	0.467	3.3	103	-0.02	5.38
33	t	2,4-Dichlorophenol	0.282	0.326	-15.6	119	-0.02	5.46
34		2,6-Dichlorophenol	0.263	0.301	-14.4	117	-0.02	5.62
35		1,3,5-Trichlorobenzene	0.294	0.351	-19.4	124	-0.02	5.29
36	t	1,2,4-Trichlorobenzene	0.285	0.340	-19.3	126	-0.02	5.52
37		1,2,3-Trichlorobenzene	0.271	0.320	-18.1	126	-0.02	5.68
38	t	Naphthalene	0.946	0.993	-5.0	109	-0.02	5.58
39	t	4-Chloroaniline	0.430	0.440	-2.3	105	-0.02	5.61
40	t	2,3-Dichloroaniline	0.329	0.361	-9.7	113	-0.02	6.29
41	t	Caprolactam	0.193	0.252	-30.6#	138	-0.02	5.86

Continuing Calibration Summary

Job Number: JC23443 **Sample:** EP4679-CC4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105950.D
Project: BMS-ICM, Humacao, PR

42	t	Hexachlorobutadiene	0.132	0.218	-65.2#	174	-0.02	5.66
43	t	4-Chloro-3-methylphenol	0.315	0.377	-19.7	123	-0.02	5.96
44	t	2-Methylnaphthalene	0.531	0.563	-6.0	109	-0.02	6.07
45	t	1-Methylnaphthalene	0.661	0.679	-2.7	106	-0.02	6.15
46	t	Dimethylnaphthalene	0.555	0.621	-11.9	116	-0.02	6.57
47	I	Acenaphthene-d10	1.000	1.000	0.0	120	-0.02	6.96
48	t	Hexachlorocyclopentadiene	0.200	0.340	-70.0#	179	-0.01	6.19
49	t	2,4,6-Trichlorophenol	0.294	0.358	-21.8#	136	-0.02	6.29
50	t	2,4,5-Trichlorophenol	0.303	0.355	-17.2	140	-0.02	6.32
51	S	2-Fluorobiphenyl	1.017	1.104	-8.6	127	-0.01	6.36
52	t	2-Chloronaphthalene	0.920	0.910	1.1	117	-0.02	6.46
53	t	Biphenyl	1.279	1.273	0.5	116	-0.01	6.44
54	t	2-Nitroaniline	0.327	0.433	-32.4#	153	-0.02	6.54
55	t	Dimethylphthalate	0.986	1.082	-9.7	130	-0.01	6.70
56	t	Acenaphthylene	1.571	1.633	-3.9	119	-0.02	6.83
57	t	2,6-Dinitrotoluene	0.212	0.249	-17.5	128	-0.02	6.76
58	t	3-Nitroaniline	0.317	0.315	0.6	113	-0.02	6.92
59	t	Acenaphthene	0.929	0.946	-1.8	118	-0.02	6.99
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	58.716	-17.4	150	-0.01	7.02
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.102	0.242	-137.3#	251#	-0.04	7.09
62	t	Dibenzofuran	1.292	1.388	-7.4	126	-0.02	7.17
63	t	2,4-Dinitrotoluene	0.284	0.352	-23.9#	134	-0.02	7.15
64		2,3,4,6-Tetrachlorophenol	0.227	0.333	-46.7#	165	-0.02	7.30
65	t	Diethylphthalate	1.017	1.216	-19.6	137	-0.02	7.41
66	t	Fluorene	1.048	1.155	-10.2	125	-0.02	7.55
67	t	4-Chlorophenyl-phenylethe	0.452	0.578	-27.9#	150	-0.02	7.55
68	t	4-Nitroaniline	0.304	0.314	-3.3	118	-0.02	7.57
69	I	Phenanthrene-d10	1.000	1.000	0.0	137	-0.02	8.82
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	27.285	-9.1	157	-0.02	7.61
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.438	0.432	1.4	132	-0.01	7.69
72	t	1,2-Diphenylhydrazine	0.774	0.766	1.0	127	-0.01	7.74
73	S	2,4,6-Tribromophenol	0.051	0.084	-64.7#	218#	-0.02	7.84
74	t	4-Bromophenyl-phenylether	0.149	0.196	-31.5#	176	-0.02	8.17
75	t	Hexachlorobenzene	0.142	0.198	-39.4#	182	-0.02	8.24
76	t	Pentachlorophenol	0.087	0.111	-27.6#	156	-0.02	8.54
77	t	Phenanthrene	0.844	0.836	0.9	130	-0.02	8.86
78	t	Anthracene	0.852	0.864	-1.4	130	-0.02	8.94
79	t	Carbazole	0.919	0.900	2.1	126	-0.02	9.21
80	t	Di-n-butylphthalate	1.067	1.148	-7.6	137	-0.01	9.91
81	t	Fluoranthene	0.934	1.147	-22.8#	158	-0.02	10.98
82	t	Octadecane	0.542	0.568	-4.8	131	-0.01	8.71
83	I	Chrysene-d12	1.000	1.000	0.0	166	-0.03	14.06
84	t	Pyrene	1.345	1.279	4.9	152	-0.11	11.41
85	S	Terphenyl-d14	0.726	0.777	-7.0	179	-0.10	11.85
86	t	Butylbenzylphthalate	0.630	0.595	5.6	151	-0.01	13.02
87	t	Benzo[a]anthracene	1.084	1.098	-1.3	169	-0.03	14.04
88	t	3,3'-Dichlorobenzidine	0.341	0.387	-13.5	181	-0.02	14.09
89	t	Chrysene	1.005	0.982	2.3	161	-0.03	14.11
90	t	bis(2-Ethylhexyl)phthalat	0.802	0.723	9.9	141	0.00	14.43

Continuing Calibration Summary

Job Number: JC23443 **Sample:** EP4679-CC4667
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105950.D
Project: BMS-ICM, Humacao, PR

91	I	Perylene-d12	1.000	1.000	0.0	160	-0.03	17.10
92	t	Di-n-octylphthalate	1.666	1.593	4.4	143	-0.01	15.88
93	t	Benzo[b]fluoranthene	1.239	1.335	-7.7	168	-0.04	16.34
94	t	Benzo[k]fluoranthene	1.172	1.185	-1.1	164	-0.03	16.40
95	t	Benzo[a]pyrene	1.123	1.187	-5.7	171	-0.04	16.97
96	t	Indeno[1,2,3-cd]pyrene	0.903	0.935	-3.5	169	-0.02	19.03
97	t	Dibenz(a,h)acridine	0.828	0.938	-13.3	181	-0.02	18.67
98	t	Dibenz[a,h]anthracene	0.920	0.894	2.8	157	-0.02	19.09
99	t	7,12-Dimethylbenz(a)anthr	0.572	0.569	0.5	159	-0.04	16.36
100	t	Benzo[g,h,i]perylene	0.988	0.982	0.6	160	-0.02	19.45

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105803.D MP4667.M Fri Jul 08 14:52:53 2016

6.7.26

6

Initial Calibration Summary

Job Number: JC23443 **Sample:** EZ5571-ICC5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111538.D
Project: BMS-ICM, Humacao, PR

Response Factor Report MSZ

Method : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Fri Jun 17 10:11:54 2016
Response via : Initial Calibration

Calibration Files
100 =Z111536.D 80 =Z111537.D 50 =Z111538.D 25 =Z111539.D
10 =Z111540.D 5 =Z111541.D 2 =Z111542.D 1 =Z111543.D

Compound	100	80	50	25	10	5	2	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.578	0.584	0.579	0.565	0.560	0.600	0.624	0.579	0.584	3.45
3) Pyridine	1.535	1.595	1.528	1.492	1.636	1.682	1.760	1.535	1.595	5.73
4) N-Nitrosodim	0.899	0.888	0.893	0.875	0.882	0.897	0.913	0.906	0.894	1.39
5) 2-Fluorophen	1.353	1.359	1.353	1.356	1.354	1.382	1.392	1.511	1.383	3.91
6) Indene	2.028	2.067	2.174	2.287	2.420	2.613	2.579	2.758	2.366	11.40
7) Cumene	3.217	3.253	3.358	3.461	3.505	3.603	3.671	3.796	3.483	5.82
8) Phenol-d5	1.676	1.664	1.695	1.710	1.727	1.771	1.791	1.960	1.749	5.47
9) Phenol	1.789	1.852	1.904	1.965	1.841	1.884	2.011	1.950	1.899	3.85
10) Aniline	1.766	1.826	1.891	1.967	2.184	2.298	2.392	2.421	2.093	12.53
11) bis(2-Chloro	1.161	1.172	1.199	1.216	1.271	1.279	1.329	1.315	1.243	5.18
12) 2-Chlorophen	1.311	1.332	1.375	1.425	1.521	1.592	1.625	1.575	1.470	8.45
13) Decane	1.094	1.119	1.161	1.213	1.233	1.298	1.396	1.450	1.246	10.27
14) 1,3-Dichloro	1.441	1.459	1.516	1.568	1.611	1.716	1.765	1.825	1.613	8.87
15) 1,4-Dichloro	1.409	1.428	1.475	1.550	1.604	1.687	1.795	1.908	1.607	11.14
16) Benzyl alcoh	0.837	0.861	0.872	0.865	0.880	0.875	0.930	0.988	0.889	5.39
17) 1,2-Dichloro	1.263	1.300	1.358	1.438	1.519	1.605	1.647	1.707	1.480	11.22
18) Acetophenone	1.627	1.669	1.765	1.844	1.971	2.043	2.149	2.198	1.908	11.29
19) 2-Methylphen	1.069	1.103	1.165	1.218	1.269	1.341	1.361	1.383	1.239	9.66
20) 2,2'-oxybis(	0.356	0.368	0.380	0.392	0.417	0.425	0.402	0.495	0.404	10.74
21) 3&4-Methylph	1.133	1.182	1.233	1.262	1.350	1.358	1.420	1.435	1.296	8.55
22) n-Nitroso-di	0.882	0.888	0.932	0.999	1.060	1.163	1.171	1.155	1.031	11.97
23) Hexachloroet	0.494	0.494	0.516	0.529	0.538	0.577	0.595	0.568	0.539	7.03
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.375	0.373	0.377	0.382	0.383	0.387	0.365	0.385	0.378	1.90
26) Nitrobenzene	0.365	0.364	0.380	0.392	0.404	0.420	0.397	0.408	0.391	5.16
27) Quinoline	0.726	0.709	0.728	0.733	0.766	0.779	0.809	0.805	0.757	5.06
28) Isophorone	0.666	0.672	0.684	0.708	0.725	0.747	0.780	0.778	0.720	6.27
29) 2-Nitropheno	0.193	0.192	0.194	0.192	0.183	0.166	0.162	0.147	0.179	10.13
30) 2,4-Dimethyl	0.332	0.329	0.333	0.337	0.347	0.371	0.388	0.393	0.354	7.41
31) Benzoic Acid	0.247	0.242	0.259	0.236	0.206	0.182			0.229	12.61
32) bis(2-Chloro	0.378	0.376	0.388	0.394	0.420	0.437	0.428	0.442	0.408	6.58
33) 2,4-Dichloro	0.283	0.287	0.298	0.311	0.316	0.327	0.320	0.340	0.310	6.35
34) 2,6-Dichloro	0.262	0.265	0.277	0.287	0.297	0.312	0.313	0.303	0.290	6.96
35) 1,3,5-Trichl	0.307	0.311	0.331	0.350	0.375	0.388	0.380	0.417	0.357	10.95
36) 1,2,4-Trichl	0.303	0.308	0.320	0.335	0.357	0.371	0.360	0.354	0.339	7.57
37) 1,2,3-Trichl	0.286	0.288	0.301	0.321	0.350	0.347	0.355	0.371	0.327	10.06
38) Naphthalene	0.950	0.949	0.988	1.027	1.090	1.121	1.162	1.231	1.065	9.72
39) 4-Chloroanil	0.399	0.406	0.423	0.449	0.480	0.492	0.494	0.512	0.457	9.53
40) 2,3-Dichloro	0.334	0.340	0.352	0.364	0.392	0.406	0.412	0.438	0.380	9.94
41) Caprolactam	0.146	0.145	0.146	0.145	0.154	0.151	0.163		0.150	4.33
42) Hexachlorobu	0.161	0.165	0.173	0.186	0.193	0.200	0.200	0.226	0.188	11.47
43) 4-Chloro-3-m	0.312	0.314	0.324	0.329	0.334	0.340	0.333	0.329	0.327	3.03
44) 2-Methylnaph	0.553	0.558	0.591	0.616	0.633	0.654	0.671	0.692	0.621	8.21
45) 1-Methylnaph	0.568	0.569	0.602	0.626	0.671	0.686	0.702	0.724	0.643	9.42

Initial Calibration Summary

Job Number: JC23443 **Sample:** EZ5571-ICC5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111538.D
Project: BMS-ICM, Humacao, PR

```
46) Dimethylnaph 0.589 0.599 0.622 0.653 0.690 0.686 0.713 0.732 0.661   8.04

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.303 0.313 0.337 0.364 0.369 0.373 0.359 0.343 0.345   7.54
49) 2,4,6-Trichl 0.310 0.331 0.349 0.374 0.388 0.403 0.383 0.402 0.368   9.27
50) 2,4,5-Trichl 0.356 0.360 0.377 0.381 0.407 0.418 0.422 0.392 0.389   6.45
51) 2-Fluorobiph 1.092 1.126 1.183 1.258 1.333 1.376 1.452 1.524 1.293  12.03
52) 2-Chloronaph 0.981 1.012 1.068 1.122 1.215 1.266 1.318 1.372 1.169  12.39
53) Biphenyl     1.308 1.337 1.428 1.468 1.566 1.623 1.676 1.752 1.520  10.57
54) 2-Nitroanili 0.332 0.335 0.342 0.337 0.324 0.317 0.274 0.257 0.315  10.05
55) Dimethylphth 1.204 1.223 1.267 1.324 1.373 1.436 1.471 1.484 1.348   8.21
56) Acenaphthyle 1.679 1.731 1.810 1.899 2.012 2.080 2.116 2.171 1.937   9.54
57) 2,6-Dinitrot 0.272 0.277 0.282 0.272 0.254 0.240 0.196 0.188 0.248  14.98
58) 3-Nitroanili 0.332 0.331 0.330 0.315 0.298 0.278 0.247       0.304  10.65
59) Acenaphthene 1.001 1.036 1.085 1.129 1.198 1.227 1.312 1.322 1.164  10.38
60) 2,4-Dinitrop 0.141 0.138 0.130 0.102 0.069 0.048 0.030       0.094  48.02
            ---- Quadratic regression ----  Coefficient =  0.9989
              Response Ratio = -0.02067 + 0.12445 *A + 0.00430 *A^2

61) 4-Nitropheno 0.181 0.185 0.183 0.177 0.166 0.148 0.141       0.169  10.49
62) Dibenzofuran 1.398 1.461 1.528 1.613 1.722 1.771 1.845 1.852 1.649  10.61
63) 2,4-Dinitrot 0.381 0.389 0.391 0.383 0.344 0.295 0.215 0.155 0.319  28.25
            ---- Linear regression ----  Coefficient =  0.9996
              Response Ratio = -0.00676 + 0.38803 *A

64) 2,3,4,6-Tetr 0.307 0.317 0.325 0.321 0.333 0.333 0.329 0.307 0.322   3.22
65) Diethylphtha 1.210 1.248 1.282 1.327 1.392 1.436 1.539 1.520 1.369   8.97
66) Fluorene     1.109 1.154 1.217 1.290 1.401 1.450 1.494 1.536 1.331  12.13
67) 4-Chlorophen 0.515 0.535 0.569 0.611 0.644 0.691 0.706 0.730 0.625  12.92
68) 4-Nitroanili 0.332 0.340 0.338 0.332 0.326 0.316 0.283 0.223 0.311  12.83

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.132 0.131 0.122 0.110 0.084 0.061 0.040       0.097  37.51
            ---- Quadratic regression ----  Coefficient =  0.9996
              Response Ratio = -0.00726 + 0.12023 *A + 0.00615 *A^2

71) n-Nitrosodip 0.494 0.502 0.518 0.546 0.568 0.585 0.595 0.607 0.552   7.90
72) 1,2-Diphenyl 0.720 0.741 0.767 0.792 0.852 0.871 0.857 0.910 0.814   8.40
73) 2,4,6-Tribro 0.089 0.090 0.092 0.092 0.093 0.092 0.085 0.077 0.089   5.94
74) 4-Bromopheny 0.199 0.203 0.210 0.220 0.227 0.229 0.228 0.236 0.219   6.16
75) Hexachlorobe 0.204 0.210 0.215 0.227 0.236 0.238 0.261 0.234 0.228   8.06
76) Pentachlorop 0.145 0.149 0.151 0.152 0.149 0.143 0.117 0.105 0.139  12.89
77) Phenanthrene 0.989 1.003 1.045 1.090 1.144 1.193 1.230 1.232 1.116   8.83
78) Anthracene   1.008 1.030 1.070 1.124 1.186 1.226 1.243 1.260 1.143   8.68
79) Carbazole    0.982 1.017 1.042 1.085 1.133 1.174 1.192 1.251 1.109   8.44
80) Di-n-butylph 1.271 1.299 1.347 1.380 1.394 1.428 1.396 1.384 1.362   3.89
81) Fluoranthene 1.123 1.174 1.209 1.249 1.304 1.344 1.292 1.317 1.251   6.16
82) Octadecane   0.402 0.418 0.431 0.448 0.464 0.471 0.485 0.474 0.449   6.59

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.286 1.311 1.353 1.369 1.407 1.453 1.424 1.453 1.382   4.54
85) Terphenyl-d1 0.817 0.833 0.861 0.861 0.878 0.877 0.901 0.901 0.866   3.44
86) Butylbenzylp 0.613 0.627 0.624 0.638 0.635 0.637 0.611 0.650 0.629   2.11
87) Benzo[a]anth 1.151 1.172 1.185 1.202 1.252 1.256 1.339 1.458 1.252   8.19
88) 3,3'-Dichlor 0.425 0.442 0.441 0.443 0.459 0.469 0.461 0.466 0.451   3.41
89) Chrysene     1.084 1.115 1.124 1.139 1.199 1.221 1.242 1.324 1.181   6.77
90) bis(2-Ethylh 0.821 0.831 0.838 0.849 0.862 0.886 0.856 0.883 0.853   2.72

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.517 1.515 1.573 1.632 1.685 1.748 1.725 1.741 1.642   5.93
```

Initial Calibration Summary

Job Number: JC23443 **Sample:** EZ5571-ICC5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111538.D
Project: BMS-ICM, Humacao, PR

```
 93) Benzo[b]fluo 1.231 1.220 1.233 1.307 1.371 1.414 1.456 1.531 1.345   8.66
 94) Benzo[k]fluo 1.077 1.128 1.177 1.215 1.291 1.352 1.429 1.475 1.268  11.29
 95) Benzo[a]pyre 1.057 1.071 1.102 1.159 1.214 1.252 1.309 1.394 1.195  10.03
 96) Indeno[1,2,3 0.972 0.994 0.993 1.026 1.054 1.113 1.141 1.224 1.064   8.24
 97) Dibenz(a,h)a 0.903 0.920 0.928 0.953 1.025 1.049 1.062 1.134 0.997   8.30
 98) Dibenz[a,h]a 1.031 1.003 1.012 1.039 1.076 1.128 1.161 1.252 1.088   7.96
 99) 7,12-Dimethy 0.548 0.554 0.558 0.585 0.605 0.604 0.608 0.596 0.582   4.33
100) Benzo[g,h,i] 1.004 1.026 1.017 1.051 1.092 1.153 1.201 1.263 1.101   8.65
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          MZ5571.M          Fri Jun 17 10:14:47 2016   RTE
```

Initial Calibration Summary

Job Number: JC23443 **Sample:** EZ5573-ICC5573
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111547.D
Project: BMS-ICM, Humacao, PR

```
                          Response Factor Report  MSZ

  Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
  Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
  Last Update  : Fri Jun 17 10:11:54 2016
  Response via : Initial Calibration

  Calibration Files
  100 =Z111545.D  80  =Z111546.D  50  =Z111547.D  25  =Z111548.D
  10  =Z111549.D  5   =Z111550.D  2   =Z111551.D  1   =Z111552.D

   Compound          100   80    50    25    10    5     2     1     Avg %RSD
  ---------------------------------------------------------------------------

101)     1,4-Dichlorobenzene-d ----------------ISTD---------------------
102) Benzaldehyde 0.787 0.869 0.996 1.045 1.104 1.061 1.235 1.042 1.017  13.59

103)     Phenanthrene-d10a     ----------------ISTD---------------------
104) 1-chloroocta 0.254 0.261 0.267 0.263 0.274 0.239 0.289 0.206 0.257   9.78
105) o-terphenyl  0.485 0.498 0.515 0.522 0.573 0.515 0.623 0.503 0.529   8.69
106) Atrazine     0.095 0.098 0.098 0.097 0.105 0.092 0.104 0.090 0.098   5.38

107)     Chrysene-d12a         ----------------ISTD---------------------
108) Benzidine    0.289 0.365 0.516 0.634 0.669 0.580 0.199 0.380 0.454  37.66

109)     Acenaphthene-d10a     ----------------ISTD---------------------
110) 1,2,4,5-Tetr 0.453 0.465 0.487 0.495 0.537 0.513 0.608 0.485 0.505   9.76

111) I   Naphthalene-d8a       ----------------ISTD---------------------
112) Hydroquinone 0.298 0.303 0.314 0.301 0.298 0.262 0.224 0.170 0.271  18.57

 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MZ5571.M          Fri Jun 17 17:11:12 2016   RTE
```

Initial Calibration Verification

Job Number: JC23443 **Sample:** EZ5573-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111554.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5573\Z111554.D          Vial: 11
Acq On    : 15 Jun 2016  12:45 pm                   Operator: ariellec
Sample    : icv5571-50                              Inst    : MSZ
Misc      : op94271,ez5573                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jun 16 09:20:46 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	0.00	4.64
5	S	2-Fluorophenol	1.383	1.272	8.0	115	0.00	3.65
8	S	Phenol-d5	1.749	1.560	10.8	112	0.00	4.37
24	I	Naphthalene-d8	1.000	1.000	0.0	123	0.00	5.56
25	S	Nitrobenzene-d5	0.378	0.351	7.1	115	0.00	5.04
47	I	Acenaphthene-d10	1.000	1.000	0.0	115	0.00	6.95
51	S	2-Fluorobiphenyl	1.293	1.208	6.6	118	0.00	6.35
69	I	Phenanthrene-d10	1.000	1.000	0.0	112	0.00	8.78
73	S	2,4,6-Tribromophenol	0.089	0.076	14.6	92	0.00	7.82
83	I	Chrysene-d12	1.000	1.000	0.0	115	-0.01	13.99
85	S	Terphenyl-d14	0.866	0.751	13.3	100	0.00	11.80

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 Z111547a.D MZ5571.M         Thu Jun 16 09:27:21 2016   RTE
```

Initial Calibration Verification

Job Number: JC23443 **Sample:** EZ5573-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111555.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5573\Z111555.D          Vial: 12
Acq On    : 15 Jun 2016   1:15 pm                   Operator: ariellec
Sample    : icv5571-50                              Inst    : MSZ
Misc      : op94271,ez5573                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Fri Jun 17 09:05:02 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	4.64
3	t	Pyridine	1.595	1.544	3.2	101	0.07	2.58
10	t	Aniline	2.093	2.252	-7.6	119	0.00	4.40
16	t	Benzyl alcohol	0.889	0.911	-2.5	104	0.00	4.74
24	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00	5.56
39	t	4-Chloroaniline	0.457	0.412	9.8	103	0.00	5.62
44	t	2-Methylnaphthalene	0.621	0.549	11.6	98	0.00	6.07
47	I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00	6.95
54	t	2-Nitroaniline	0.315	0.294	6.7	85	0.00	6.53
58	t	3-Nitroaniline	0.304	0.283	6.9	85	0.00	6.90
		----------	AvgRF	CCRF	% Dev	----------		
62	t	Dibenzofuran	1.649	1.559	5.5	101	0.00	7.16
		----------	AvgRF	CCRF	% Dev	----------		
68	t	4-Nitroaniline	0.311	0.279	10.3	81	0.01	7.55
69	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00	8.78
		----------	AvgRF	CCRF	% Dev	----------		
79	t	Carbazole	1.109	1.000	9.8	96	0.00	9.17
83	I	Chrysene-d12	1.000	1.000	0.0	106	-0.02	13.98
91	I	Perylene-d12	1.000	1.000	0.0	105	-0.02	17.01

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 Z111547a.D MZ5571.M         Fri Jun 17 09:17:03 2016   RTE
```

Initial Calibration Verification

Job Number: JC23443 **Sample:** EZ5573-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111558.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5573\Z111558.D          Vial: 15
Acq On    : 15 Jun 2016   2:44 pm                   Operator: ariellec
Sample    : icv5571-50                              Inst    : MSZ
Misc      : op94271,ez5573                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jun 16 09:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83	I	Chrysene-d12	1.000	1.000	0.0	116	-0.01	13.99
88	t	3,3'-Dichlorobenzidine	0.451	0.375	16.9	98	0.00	14.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Thu Jun 16 09:36:45 2016 RTE

Initial Calibration Verification

Job Number: JC23443 **Sample:** EZ5573-ICV5573
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111559.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5573\Z111559.D          Vial: 16
Acq On    : 15 Jun 2016   3:14 pm                   Operator: ariellec
Sample    : icv5573-50                              Inst    : MSZ
Misc      : op94271,ez5573                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jun 16 09:20:46 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
111 I	Naphthalene-d8a	1.000	1.000	0.0	96	0.00	5.56
112	Hydroquinone	0.271	0.335	-23.6	103	0.00	5.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Thu Jun 16 09:27:26 2016 RTE

Initial Calibration Verification

Job Number: JC23443 **Sample:** EZ5574-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111561.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EZ5574\Z111561.D          Vial: 2
Acq On    : 15 Jun 2016   5:03 pm                   Operator: seanb1
Sample    : icv5571-50                              Inst    : MSZ
Misc      : op94271,ez5574                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Fri Jun 17 09:05:02 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00	4.64
9	t	Phenol	1.899	1.669	12.1	95	0.00	4.38
12	t	2-Chlorophenol	1.470	1.352	8.0	106	0.00	4.48
19	t	2-Methylphenol	1.239	1.180	4.8	110	0.00	4.82
21	t	3&4-Methylphenol	1.296	1.225	5.5	108	0.00	4.93
24	I	Naphthalene-d8	1.000	1.000	0.0	103	0.00	5.56
29	t	2-Nitrophenol	0.179	0.194	-8.4	103	0.00	5.28
30	t	2,4-Dimethylphenol	0.354	0.358	-1.1	110	0.00	5.31
31		Benzoic Acid	0.229	0.256	-11.8	101	0.05	5.40
33	t	2,4-Dichlorophenol	0.310	0.284	8.4	98	0.00	5.45
34		2,6-Dichlorophenol	0.290	0.274	5.5	101	0.00	5.62
43	t	4-Chloro-3-methylphenol	0.327	0.310	5.2	98	-0.01	5.95
47	I	Acenaphthene-d10	1.000	1.000	0.0	102	-0.01	6.95
49	t	2,4,6-Trichlorophenol	0.368	0.361	1.9	105	0.00	6.28
50	t	2,4,5-Trichlorophenol	0.389	0.336	13.6	91	0.00	6.31
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	55.988	-12.0	102	-0.01	6.99
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.169	0.175	-3.6	98	0.00	7.06
		----------	AvgRF	CCRF	% Dev	----------		
64		2,3,4,6-Tetrachlorophenol	0.322	0.296	8.1	93	0.00	7.28
69	I	Phenanthrene-d10	1.000	1.000	0.0	100	-0.01	8.78
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	51.173	-2.3	103	-0.01	7.58
		----------	AvgRF	CCRF	% Dev	----------		
76	t	Pentachlorophenol	0.139	0.146	-5.0	96	-0.01	8.51
83	I	Chrysene-d12	1.000	1.000	0.0	106	-0.02	13.98
91	I	Perylene-d12	1.000	1.000	0.0	105	-0.03	17.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Initial Calibration Verification

Job Number: JC23443
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EZ5574-ICV5571
Lab FileID: Z111561.D

```
Z111547a.D MZ5571.M         Fri Jun 17 09:19:26 2016   RTE
```

Initial Calibration Verification

Job Number: JC23443 **Sample:** EZ5574-ICV5573
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111562A.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EZ5574\Z111562a.D          Vial: 3
Acq On    : 15 Jun 2016   5:33 pm                    Operator: seanb1
Sample    : icv5573-50                               Inst    : MSZ
Misc      : op94271,ez5574                           Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jun 16 09:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
107	Chrysene-d12a	1.000	1.000	0.0	85	0.00	13.99
108	Benzidine	0.454	0.415	8.5	69	0.00	11.26
109	Acenaphthene-d10a	1.000	1.000	0.0	98	0.00	6.95
110	1,2,4,5-Tetrachlorobenzen	0.505	0.518	-2.6	104	0.00	6.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Thu Jun 16 09:53:32 2016 RTE

Initial Calibration Verification

Job Number: JC23443 **Sample:** EZ5574-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111562.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EZ5574\Z111562.D Vial: 3
Acq On : 15 Jun 2016 5:33 pm Operator: seanb1
Sample : icv5571-50 Inst : MSZ
Misc : op94271,ez5574 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update : Fri Jun 17 09:05:02 2016
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	4.64
4	t	N-Nitrosodimethylamine	0.894	0.758	15.2	89	0.00	2.46
11	t	bis(2-Chloroethyl)ether	1.243	1.225	1.4	107	0.00	4.44
14	t	1,3-Dichlorobenzene	1.613	1.458	9.6	100	0.00	4.60
15	t	1,4-Dichlorobenzene	1.607	1.390	13.5	99	0.00	4.65
17	t	1,2-Dichlorobenzene	1.480	1.343	9.3	103	0.00	4.77
20	t	2,2'-oxybis(1-Chloropropa	0.404	0.336	16.8	92	0.00	4.84
22	t	n-Nitroso-di-n-propylamin	1.031	0.897	13.0	101	0.00	4.93
23	t	Hexachloroethane	0.539	0.482	10.6	98	0.00	5.01
24	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00	5.56
26	t	Nitrobenzene	0.391	0.351	10.2	94	0.00	5.05
28	t	Isophorone	0.720	0.644	10.6	96	0.00	5.23
32	t	bis(2-Chloroethoxy)methan	0.408	0.382	6.4	100	0.00	5.38
36	t	1,2,4-Trichlorobenzene	0.339	0.306	9.7	97	0.00	5.52
38	t	Naphthalene	1.065	0.919	13.7	94	0.00	5.57
42	t	Hexachlorobutadiene	0.188	0.170	9.6	100	0.00	5.67
47	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00	6.95
48	t	Hexachlorocyclopentadiene	0.345	0.300	13.0	86	0.00	6.20
52	t	2-Chloronaphthalene	1.169	1.072	8.3	98	-0.01	6.45
55	t	Dimethylphthalate	1.348	1.165	13.6	89	0.00	6.69
56	t	Acenaphthylene	1.937	1.625	16.1	87	-0.01	6.81
57	t	2,6-Dinitrotoluene	0.248	0.245	1.2	84	0.00	6.74
59	t	Acenaphthene	1.164	0.996	14.4	89	0.00	6.98
		----------	True	Calc.	% Drift	----------		
63	t	2,4-Dinitrotoluene	50.000	40.131	19.7	76	0.00	7.13
		----------	AvgRF	CCRF	% Dev	----------		
65	t	Diethylphthalate	1.369	1.159	15.3	88	0.00	7.39
66	t	Fluorene	1.331	1.095	17.7	87	0.00	7.53
67	t	4-Chlorophenyl-phenylethe	0.625	0.524	16.2	90	0.00	7.53
69	I	Phenanthrene-d10	1.000	1.000	0.0	96	-0.01	8.78
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.452	18.1	84	0.00	7.67
72	t	1,2-Diphenylhydrazine	0.814	0.683	16.1	86	0.00	7.71
74	t	4-Bromophenyl-phenylether	0.219	0.193	11.9	88	-0.01	8.14
75	t	Hexachlorobenzene	0.228	0.193	15.4	86	0.00	8.23
77	t	Phenanthrene	1.116	0.936	16.1	86	-0.01	8.82

Initial Calibration Verification

Job Number: JC23443 **Sample:** EZ5574-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111562.D
Project: BMS-ICM, Humacao, PR

78	t	Anthracene	1.143	0.925	19.1	83	0.00	8.90
80	t	Di-n-butylphthalate	1.362	1.172	14.0	84	-0.01	9.86
81	t	Fluoranthene	1.251	1.046	16.4	83	-0.01	10.92
83	I	Chrysene-d12	1.000	1.000	0.0	93	-0.01	13.99
84	t	Pyrene	1.382	1.168	15.5	80	-0.01	11.36
86	t	Butylbenzylphthalate	0.629	0.559	11.1	83	-0.01	12.96
87	t	Benzo[a]anthracene	1.252	1.064	15.0	84	-0.02	13.96
89	t	Chrysene	1.181	0.954	19.2	79	0.00	14.04
90	t	bis(2-Ethylhexyl)phthalat	0.853	0.742	13.0	82	-0.02	14.37
91	I	Perylene-d12	1.000	1.000	0.0	92	-0.03	17.00
92	t	Di-n-octylphthalate	1.642	1.430	12.9	84	-0.01	15.81
93	t	Benzo[b]fluoranthene	1.345	1.091	18.9	82	0.00	16.26
94	t	Benzo[k]fluoranthene	1.268	1.085	14.4	85	0.00	16.32
95	t	Benzo[a]pyrene	1.195	1.033	13.6	86	-0.01	16.89
96	t	Indeno[1,2,3-cd]pyrene	1.064	0.961	9.7	89	0.00	18.94
98	t	Dibenz[a,h]anthracene	1.088	0.928	14.7	85	0.00	19.00
100	t	Benzo[g,h,i]perylene	1.101	0.961	12.7	87	0.00	19.37

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Fri Jun 17 09:19:28 2016 RTE

6.7.35

6

Initial Calibration Verification

Job Number: JC23443 **Sample:** EZ5575-ICV5573
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111565A.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5575\Z111565a.D          Vial: 2
Acq On    : 16 Jun 2016   8:58 am                    Operator: ariellec
Sample    : icv5573-50                               Inst    : MSZ
Misc      : op94271,ez5575                           Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Thu Jun 16 09:33:31 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	105	-0.01	4.63
102	Benzaldehyde	1.017	1.093	-7.5	116	-0.01	4.31
103	Phenanthrene-d10a	1.000	1.000	0.0	94	-0.02	8.77
106	Atrazine	0.098	0.104	-6.1	99	0.00	8.38

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Thu Jun 16 10:07:46 2016 RTE

Initial Calibration Verification

Job Number: JC23443 **Sample:** EZ5575-ICV5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z111565.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ez5575\Z111565.D          Vial: 2
Acq On    : 16 Jun 2016   8:58 am                   Operator: ariellec
Sample    : icv5571-50                              Inst    : MSZ
Misc      : op94271,ez5575                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Fri Jun 17 10:11:54 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	-0.01	4.63
2		1,4-Dioxane	0.584	0.540	7.5	99	0.00	2.17
6	t	Indene	2.366	2.266	4.2	110	0.00	4.82
7	t	Cumene	3.483	3.111	10.7	98	0.00	4.04
13	t	Decane	1.246	1.132	9.1	103	0.00	4.53
18	t	Acetophenone	1.908	1.739	8.9	104	-0.01	4.92
24	I	Naphthalene-d8	1.000	1.000	0.0	105	-0.01	5.55
27	t	Quinoline	0.757	0.647	14.5	94	-0.01	5.80
40	t	2,3-Dichloroaniline	0.380	0.294	22.6	88	-0.01	6.28
41	t	Caprolactam	0.150	0.121	19.3	88	0.00	5.83
45	t	1-Methylnaphthalene	0.643	0.542	15.7	95	-0.01	6.14
46	t	Dimethylnaphthalene	0.661	0.554	16.2	94	-0.01	6.56
47	I	Acenaphthene-d10	1.000	1.000	0.0	99	-0.02	6.94
53	t	Biphenyl	1.520	1.352	11.1	94	-0.01	6.43
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	94	-0.02	8.77
		----------	AvgRF	CCRF	% Dev	----------		
82	t	Octadecane	0.449	0.426	5.1	93	-0.02	8.69
83	I	Chrysene-d12	1.000	1.000	0.0	99	-0.04	13.96
91	I	Perylene-d12	1.000	1.000	0.0	94	-0.05	16.98
99	t	7,12-Dimethylbenz(a)anthr	0.582	0.556	4.5	93	-0.03	16.26

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111547a.D MZ5571.M Fri Jun 17 10:12:14 2016 RTE

Continuing Calibration Summary

Job Number: JC23443 **Sample:** EZ5607-CC5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z112255.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EZ5607\z112255.D          Vial: 2
Acq On    : 10 Jul 2016   8:57 am                   Operator: ARIELLEC
Sample    : cc5571-50                               Inst    : MSZ
Misc      : op95277,ez5607,31.5                     Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Fri Jul 08 15:09:40 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	-0.03	4.54
2		1,4-Dioxane	0.584	0.642	-9.9	97	-0.08	2.04
3	t	Pyridine	1.595	1.617	-1.4	93	-0.01	2.38
4	t	N-Nitrosodimethylamine	0.894	0.956	-6.9	94	-0.06	2.35
5	S	2-Fluorophenol	1.383	1.349	2.5	88	-0.04	3.58
6	t	Indene	2.366	2.398	-1.4	97	-0.02	4.73
7	t	Cumene	3.483	3.569	-2.5	93	-0.03	3.95
8	S	Phenol-d5	1.749	1.760	-0.6	91	-0.03	4.31
9	t	Phenol	1.899	2.047	-7.8	95	-0.03	4.32
10	t	Aniline	2.093	1.892	9.6	88	-0.02	4.31
11	t	bis(2-Chloroethyl)ether	1.243	1.264	-1.7	93	-0.02	4.35
12	t	2-Chlorophenol	1.470	1.482	-0.8	95	-0.02	4.40
13	t	Decane	1.246	1.231	1.2	93	-0.02	4.43
14	t	1,3-Dichlorobenzene	1.613	1.544	4.3	90	-0.02	4.50
15	t	1,4-Dichlorobenzene	1.607	1.541	4.1	92	-0.02	4.56
16	t	Benzyl alcohol	0.889	0.910	-2.4	92	-0.02	4.65
17	t	1,2-Dichlorobenzene	1.480	1.392	5.9	90	-0.02	4.67
18	t	Acetophenone	1.908	2.026	-6.2	101	-0.02	4.84
19	t	2-Methylphenol	1.239	1.218	1.7	92	-0.02	4.75
20	t	2,2'-oxybis(1-Chloropropa	0.404	0.408	-1.0	94	-0.02	4.74
21	t	3&4-Methylphenol	1.296	1.346	-3.9	96	-0.02	4.86
22	t	n-Nitroso-di-n-propylamin	1.031	1.085	-5.2	102	-0.02	4.84
23	t	Hexachloroethane	0.539	0.505	6.3	86	-0.02	4.91
24	I	Naphthalene-d8	1.000	1.000	0.0	92	-0.02	5.47
25	S	Nitrobenzene-d5	0.378	0.401	-6.1	98	-0.02	4.95
26	t	Nitrobenzene	0.391	0.397	-1.5	96	-0.02	4.96
27	t	Quinoline	0.757	0.732	3.3	92	0.00	5.73
28	t	Isophorone	0.720	0.696	3.3	93	-0.02	5.13
29	t	2-Nitrophenol	0.179	0.217	-21.2#	102	-0.02	5.19
30	t	2,4-Dimethylphenol	0.354	0.365	-3.1	100	-0.02	5.24
31		Benzoic Acid	0.229	0.268	-17.0	95	0.01	5.35
32	t	bis(2-Chloroethoxy)methan	0.408	0.388	4.9	92	-0.02	5.28
33	t	2,4-Dichlorophenol	0.310	0.307	1.0	95	-0.02	5.38
34		2,6-Dichlorophenol	0.290	0.282	2.8	93	-0.02	5.54
35	t	1,3,5-Trichlorobenzene	0.357	0.328	8.1	91	-0.02	5.20
36	t	1,2,4-Trichlorobenzene	0.339	0.306	9.7	88	-0.02	5.43
37	t	1,2,3-Trichlorobenzene	0.327	0.297	9.2	91	-0.02	5.58
38	t	Naphthalene	1.065	1.000	6.1	93	-0.02	5.48
39	t	4-Chloroaniline	0.457	0.411	10.1	89	-0.02	5.52
40	t	2,3-Dichloroaniline	0.380	0.367	3.4	95	-0.02	6.19
41	t	Caprolactam	0.150	0.155	-3.3	97	0.00	5.79

Continuing Calibration Summary

Job Number: JC23443 **Sample:** EZ5607-CC5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z112255.D
Project: BMS-ICM, Humacao, PR

42	t	Hexachlorobutadiene	0.188	0.164	12.8	87	-0.02	5.57
43	t	4-Chloro-3-methylphenol	0.327	0.356	-8.9	101	0.00	5.89
44	t	2-Methylnaphthalene	0.621	0.588	5.3	91	-0.02	5.97
45	t	1-Methylnaphthalene	0.643	0.616	4.2	94	-0.02	6.05
46	t	Dimethylnaphthalene	0.661	0.619	6.4	91	-0.02	6.46
47	I	Acenaphthene-d10	1.000	1.000	0.0	91	-0.09	6.83
48	t	Hexachlorocyclopentadiene	0.345	0.258	25.2#	69	-0.07	6.09
49	t	2,4,6-Trichlorophenol	0.368	0.357	3.0	93	-0.07	6.20
50	t	2,4,5-Trichlorophenol	0.389	0.367	5.7	88	-0.08	6.23
51	S	2-Fluorobiphenyl	1.293	1.162	10.1	89	-0.08	6.25
52	t	2-Chloronaphthalene	1.169	1.050	10.2	89	-0.09	6.35
53	t	Biphenyl	1.520	1.423	6.4	90	-0.08	6.33
54	t	2-Nitroaniline	0.315	0.377	-19.7	100	-0.07	6.44
55	t	Dimethylphthalate	1.348	1.276	5.3	91	-0.09	6.58
56	t	Acenaphthylene	1.937	1.830	5.5	92	-0.09	6.70
57	t	2,6-Dinitrotoluene	0.248	0.294	-18.5	94	-0.08	6.64
58	t	3-Nitroaniline	0.304	0.348	-14.5	95	-0.09	6.80
59	t	Acenaphthene	1.164	1.088	6.5	91	-0.10	6.86
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	124.112	-24.1#	113	-0.09	6.91
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.169	0.178	-5.3	88	-0.09	7.00
62	t	Dibenzofuran	1.649	1.510	8.4	90	-0.10	7.03
		----------	True	Calc.	% Drift	----------		
63	t	2,4-Dinitrotoluene	50.000	52.218	-4.4	93	-0.03	7.03
		----------	AvgRF	CCRF	% Dev	----------		
64		2,3,4,6-Tetrachlorophenol	0.322	0.288	10.6	80	-0.10	7.18
65	t	Diethylphthalate	1.369	1.308	4.5	92	-0.10	7.27
66	t	Fluorene	1.331	1.235	7.2	92	-0.11	7.40
67	t	4-Chlorophenyl-phenylethe	0.625	0.575	8.0	92	-0.10	7.39
68	t	4-Nitroaniline	0.311	0.318	-2.3	85	-0.10	7.44
69	I	Phenanthrene-d10	1.000	1.000	0.0	91	-0.13	8.63
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	55.084	-10.2	102	-0.10	7.49
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.552	0.487	11.8	86	-0.10	7.54
72	t	1,2-Diphenylhydrazine	0.814	0.803	1.4	96	-0.11	7.58
73	S	2,4,6-Tribromophenol	0.089	0.078	12.4	77	-0.11	7.69
74	t	4-Bromophenyl-phenylether	0.219	0.187	14.6	81	-0.12	8.00
75	t	Hexachlorobenzene	0.228	0.198	13.2	84	-0.12	8.09
76	t	Pentachlorophenol	0.139	0.104	25.2#	63	-0.12	8.39
77	t	Phenanthrene	1.116	1.017	8.9	89	-0.13	8.67
78	t	Anthracene	1.143	1.045	8.6	89	-0.13	8.75
79	t	Carbazole	1.109	1.042	6.0	92	-0.13	9.03
80	t	Di-n-butylphthalate	1.362	1.372	-0.7	93	-0.14	9.69
81	t	Fluoranthene	1.251	1.141	8.8	86	-0.12	10.77
82	t	Octadecane	0.449	0.464	-3.3	99	-0.12	8.53
83	I	Chrysene-d12	1.000	1.000	0.0	91	-0.15	13.83
84	t	Pyrene	1.382	1.283	7.2	86	-0.15	11.20
85	S	Terphenyl-d14	0.866	0.779	10.0	82	-0.15	11.61
86	t	Butylbenzylphthalate	0.629	0.667	-6.0	97	-0.15	12.77

Continuing Calibration Summary

Job Number: JC23443 **Sample:** EZ5607-CC5571
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z112255.D
Project: BMS-ICM, Humacao, PR

87	t	Benzo[a]anthracene	1.252	1.153	7.9	88	-0.16	13.80
88	t	3,3'-Dichlorobenzidine	0.451	0.409	9.3	84	-0.15	13.84
89	t	Chrysene	1.181	1.092	7.5	88	-0.15	13.88
90	t	bis(2-Ethylhexyl)phthalat	0.853	0.926	-8.6	100	-0.15	14.17
91	I	Perylene-d12	1.000	1.000	0.0	86	-0.18	16.86
92	t	Di-n-octylphthalate	1.642	1.868	-13.8	102	-0.17	15.61
93	t	Benzo[b]fluoranthene	1.345	1.340	0.4	94	-0.18	16.11
94	t	Benzo[k]fluoranthene	1.268	1.180	6.9	86	-0.17	16.18
95	t	Benzo[a]pyrene	1.195	1.140	4.6	89	-0.18	16.74
96	t	Indeno[1,2,3-cd]pyrene	1.064	0.911	14.4	79	-0.18	18.81
97	t	Dibenz(a,h)acridine	0.997	0.885	11.2	82	-0.18	18.44
98	t	Dibenz[a,h]anthracene	1.088	0.937	13.9	80	-0.18	18.86
99	t	7,12-Dimethylbenz(a)anthr	0.582	0.603	-3.6	93	-0.17	16.12
100	t	Benzo[g,h,i]perylene	1.101	0.957	13.1	81	-0.18	19.23

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z111966.D MZ5571.M Sun Jul 10 11:15:34 2016 RTE

Continuing Calibration Summary

Job Number: JC23443 **Sample:** EZ5607-CC5573
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Z112256.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EZ5607\z112256.D          Vial: 3
Acq On    : 10 Jul 2016   9:26 am                   Operator: ARIELLEC
Sample    : cc5573-50                               Inst    : MSZ
Misc      : op95277,ez5607,31.5                     Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MZ5571.M (RTE Integrator)
Title        : Semi Volatile  GC/MS, ZB-5MS 15m x .25mm x .25um
Last Update  : Fri Jul 08 15:09:40 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.050  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	87	-0.07	4.54
102	Benzaldehyde	1.017	0.872	14.3	76	-0.08	4.22
103	Phenanthrene-d10a	1.000	1.000	0.0	89	-0.14	8.63
104	Atrazine	0.098	0.102	-4.1	92	-0.11	8.25
105	Chrysene-d12a	1.000	1.000	0.0	84	-0.17	13.82
106	Benzidine	0.454	0.471	-3.7	77	-0.14	11.10
107	Acenaphthene-d10a	1.000	1.000	0.0	90	-0.10	6.83
108	1,2,4,5-Tetrachlorobenzen	0.505	0.474	6.1	87	-0.07	6.10
109 I	Naphthalene-d8a	1.000	1.000	0.0	89	-0.08	5.46
110	Hydroquinone	0.271	0.352	-29.9#	99	-0.03	5.78

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 Z111966.D  MZ5571.M         Sun Jul 10 11:15:36 2016   RTE
```

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62854.D
Acq On : 8 Jul 2016 11:56 am
Operator : linseyk
Sample : jc23443-1
Misc : op95323a,e3m2968,890
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 08:51:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration

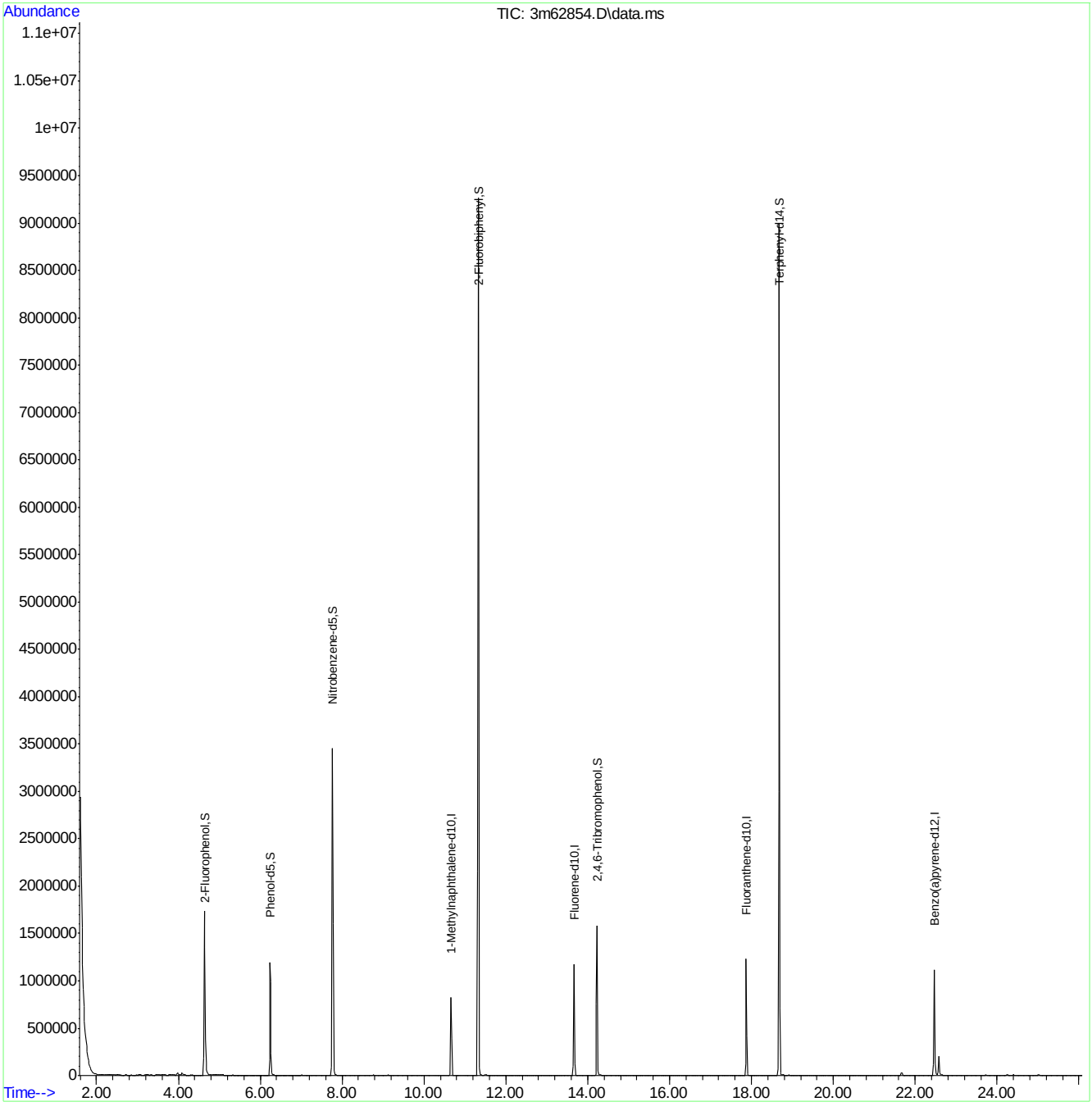
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.661	150	565223	4.00	ppm	-0.10
14) Fluorene-d10	13.668	176	817754	4.00	ppm	-0.06
21) Fluoranthene-d10	17.873	212	1308446	4.00	ppm	-0.05
31) Benzo(a)pyrene-d12	22.470	264	1106731	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.647	112	1668443	18.84	ppm	-0.07
Spiked Amount 50.000			Recovery = 37.68%			
4) Phenol-d5	6.237	99	1850020	13.20	ppm	-0.05
Spiked Amount 50.000			Recovery = 26.40%			
7) Nitrobenzene-d5	7.764	82	3930625	34.28	ppm	-0.12
Spiked Amount 50.000			Recovery = 68.56%			
15) 2-Fluorobiphenyl	11.337	172	8668476	34.63	ppm	-0.06
Spiked Amount 50.000			Recovery = 69.26%			
20) 2,4,6-Tribromophenol	14.233	330	1108565	41.95	ppm	-0.01
Spiked Amount 50.000			Recovery = 83.90%			
28) Terphenyl-d14	18.677	244	7763864	39.40	ppm	-0.03
Spiked Amount 50.000			Recovery = 78.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62854.D
Acq On : 8 Jul 2016 11:56 am
Operator : linseyk
Sample : jc23443-1
Misc : op95323a,e3m2968,890
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 08:51:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration



M3M2942SIM.M Sun Jul 10 08:51:26 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62855.D
Acq On : 8 Jul 2016 12:29 pm
Operator : linseyk
Sample : jc23443-2
Misc : op95323a,e3m2968,900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 08:51:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration

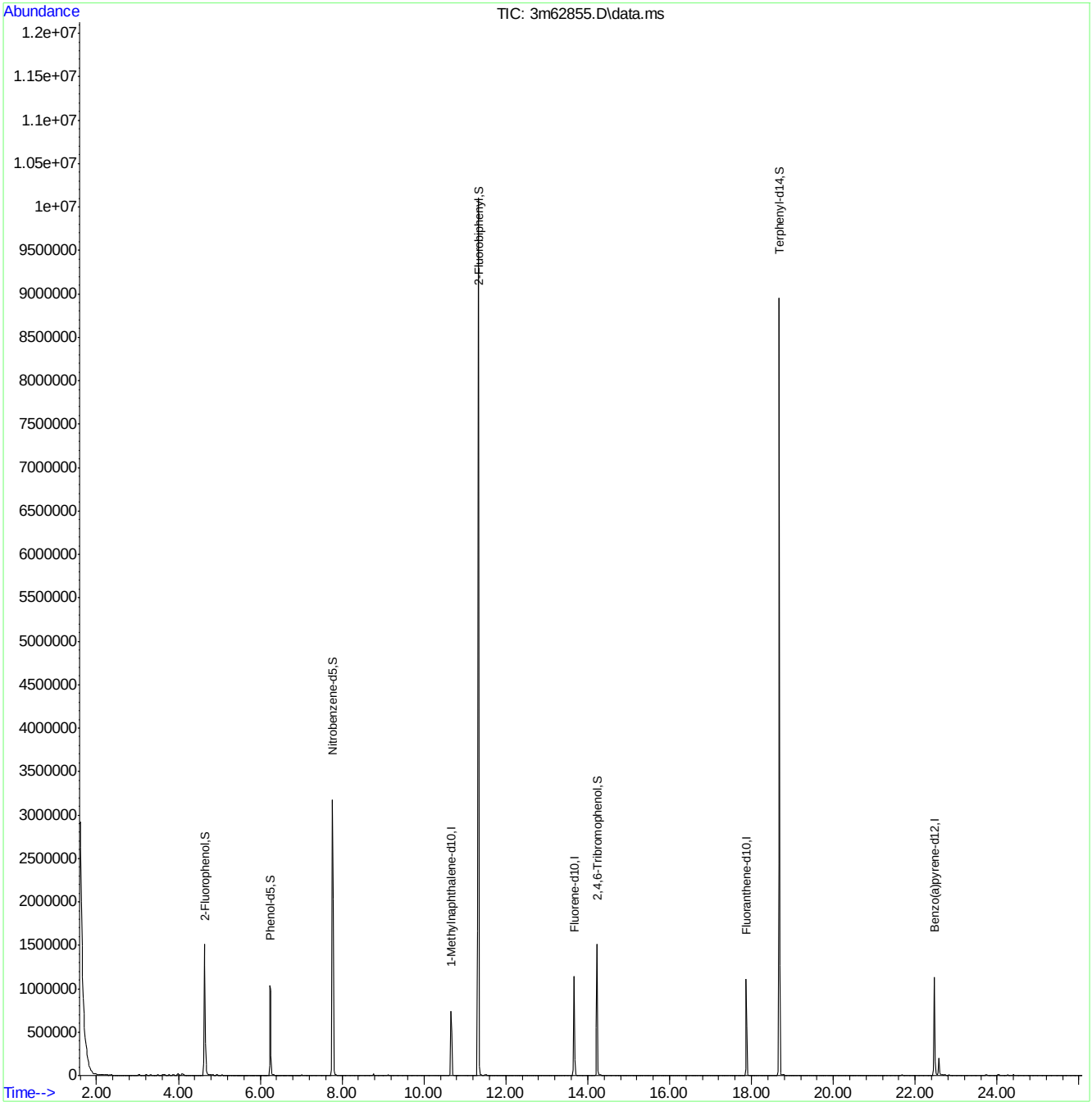
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.660	150	573293	4.00	ppm	-0.10
14) Fluorene-d10	13.668	176	817206	4.00	ppm	-0.06
21) Fluoranthene-d10	17.873	212	1302887	4.00	ppm	-0.05
31) Benzo(a)pyrene-d12	22.469	264	1113793	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.646	112	1516131	16.88	ppm	-0.07
Spiked Amount 50.000			Recovery = 33.76%			
4) Phenol-d5	6.236	99	1710184	12.03	ppm	-0.05
Spiked Amount 50.000			Recovery = 24.06%			
7) Nitrobenzene-d5	7.763	82	3964703	34.09	ppm	-0.12
Spiked Amount 50.000			Recovery = 68.18%			
15) 2-Fluorobiphenyl	11.337	172	8920876	35.66	ppm	-0.06
Spiked Amount 50.000			Recovery = 71.32%			
20) 2,4,6-Tribromophenol	14.233	330	989643	37.47	ppm	-0.01
Spiked Amount 50.000			Recovery = 74.94%			
28) Terphenyl-d14	18.676	244	7711605	39.31	ppm	-0.03
Spiked Amount 50.000			Recovery = 78.62%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62855.D
Acq On : 8 Jul 2016 12:29 pm
Operator : linseyk
Sample : jc23443-2
Misc : op95323a,e3m2968,900
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 08:51:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62856.D
Acq On : 8 Jul 2016 1:02 pm
Operator : linseyk
Sample : jc23443-3
Misc : op95323a,e3m2968,910
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 08:52:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.661	150	568722	4.00	ppm	-0.10
14) Fluorene-d10	13.668	176	825900	4.00	ppm	-0.06
21) Fluoranthene-d10	17.873	212	1354816	4.00	ppm	-0.05
31) Benzo(a)pyrene-d12	22.469	264	1138860	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.647	112	1582614	17.77	ppm	-0.07
Spiked Amount 50.000			Recovery = 35.54%			
4) Phenol-d5	6.249	99	1763278	12.50	ppm	-0.04
Spiked Amount 50.000			Recovery = 25.00%			
7) Nitrobenzene-d5	7.763	82	4137372	35.86	ppm	-0.12
Spiked Amount 50.000			Recovery = 71.72%			
15) 2-Fluorobiphenyl	11.337	172	9126361	36.10	ppm	-0.06
Spiked Amount 50.000			Recovery = 72.20%			
20) 2,4,6-Tribromophenol	14.233	330	1007660	37.76	ppm	-0.01
Spiked Amount 50.000			Recovery = 75.52%			
28) Terphenyl-d14	18.677	244	7664923	37.57	ppm	-0.03
Spiked Amount 50.000			Recovery = 75.14%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.360	88	54058	1.54	ppm #	50

(#) = qualifier out of range (m) = manual integration (+) = signals summed

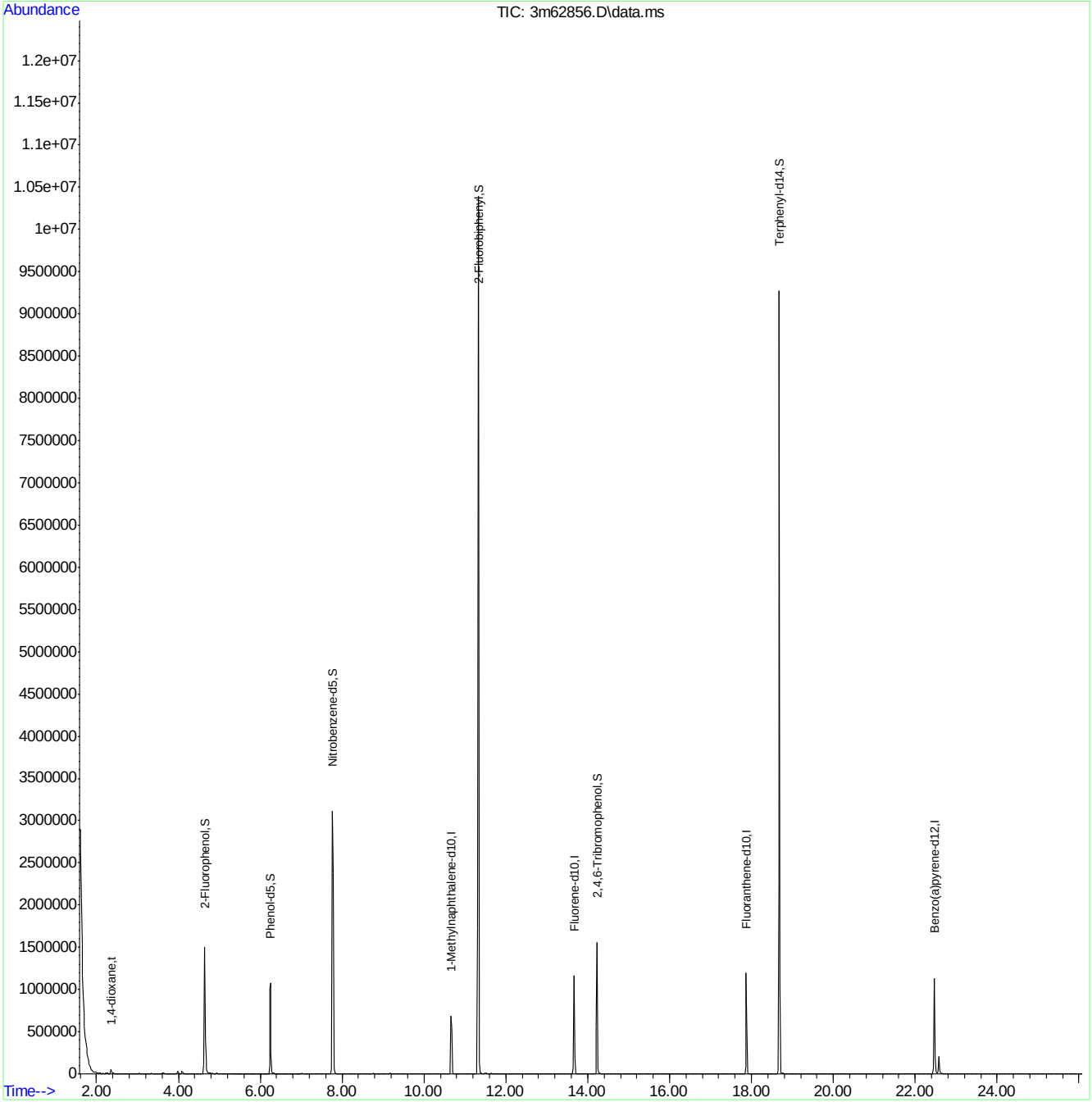
7.1.3

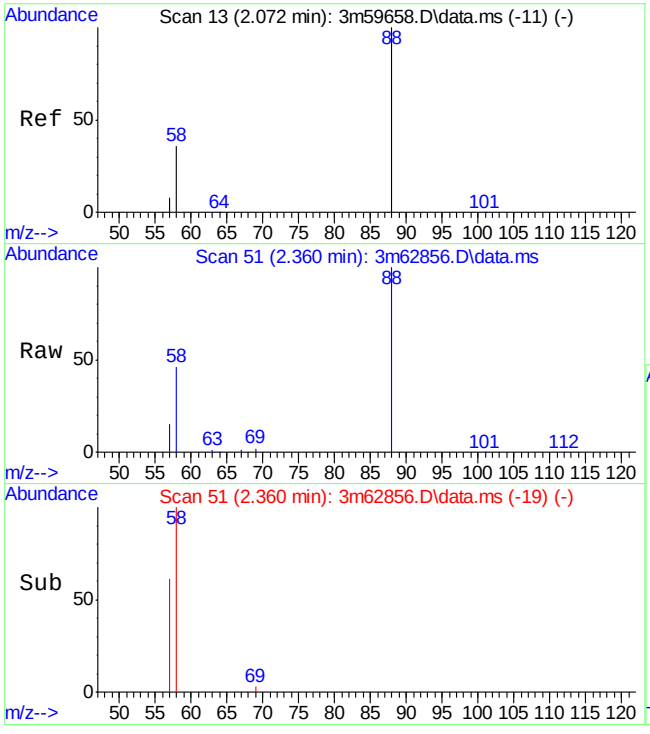
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62856.D
Acq On : 8 Jul 2016 1:02 pm
Operator : linseyk
Sample : jc23443-3
Misc : op95323a,e3m2968,910
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 08:52:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration

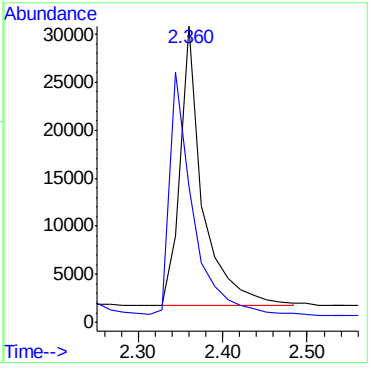




#2
1,4-dioxane
Concen: 1.54 ppm
RT: 2.360 min Scan# 51
Delta R.T. -0.008 min
Lab File: 3m62856.D
Acq: 8 Jul 2016 1:02 pm

Tgt Ion: 88 Resp: 54058

Ion	Ratio	Lower	Upper
88	100		
58	44.9	72.6	112.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62857.D
Acq On : 8 Jul 2016 1:35 pm
Operator : linseyk
Sample : jc23443-4
Misc : op95323a,e3m2968,940
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 10 09:05:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.661	150	529376	4.00	ppm	-0.10
14) Fluorene-d10	13.668	176	772887	4.00	ppm	-0.06
21) Fluoranthene-d10	17.873	212	1229674	4.00	ppm	-0.05
31) Benzo(a)pyrene-d12	22.469	264	1056144	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.647	112	1158511	13.97	ppm	-0.07
Spiked Amount 50.000			Recovery = 27.94%			
4) Phenol-d5	6.249	99	1247830	9.51	ppm	-0.04
Spiked Amount 50.000			Recovery = 19.02%			
7) Nitrobenzene-d5	7.763	82	3559386	33.15	ppm	-0.12
Spiked Amount 50.000			Recovery = 66.30%			
15) 2-Fluorobiphenyl	11.337	172	7588402	32.07	ppm	-0.06
Spiked Amount 50.000			Recovery = 64.14%			
20) 2,4,6-Tribromophenol	14.233	330	778091	31.15	ppm	-0.01
Spiked Amount 50.000			Recovery = 62.30%			
28) Terphenyl-d14	18.677	244	6927893	37.41	ppm	-0.03
Spiked Amount 50.000			Recovery = 74.82%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.360	88	972134	29.68	ppm	# 51

(#) = qualifier out of range (m) = manual integration (+) = signals summed

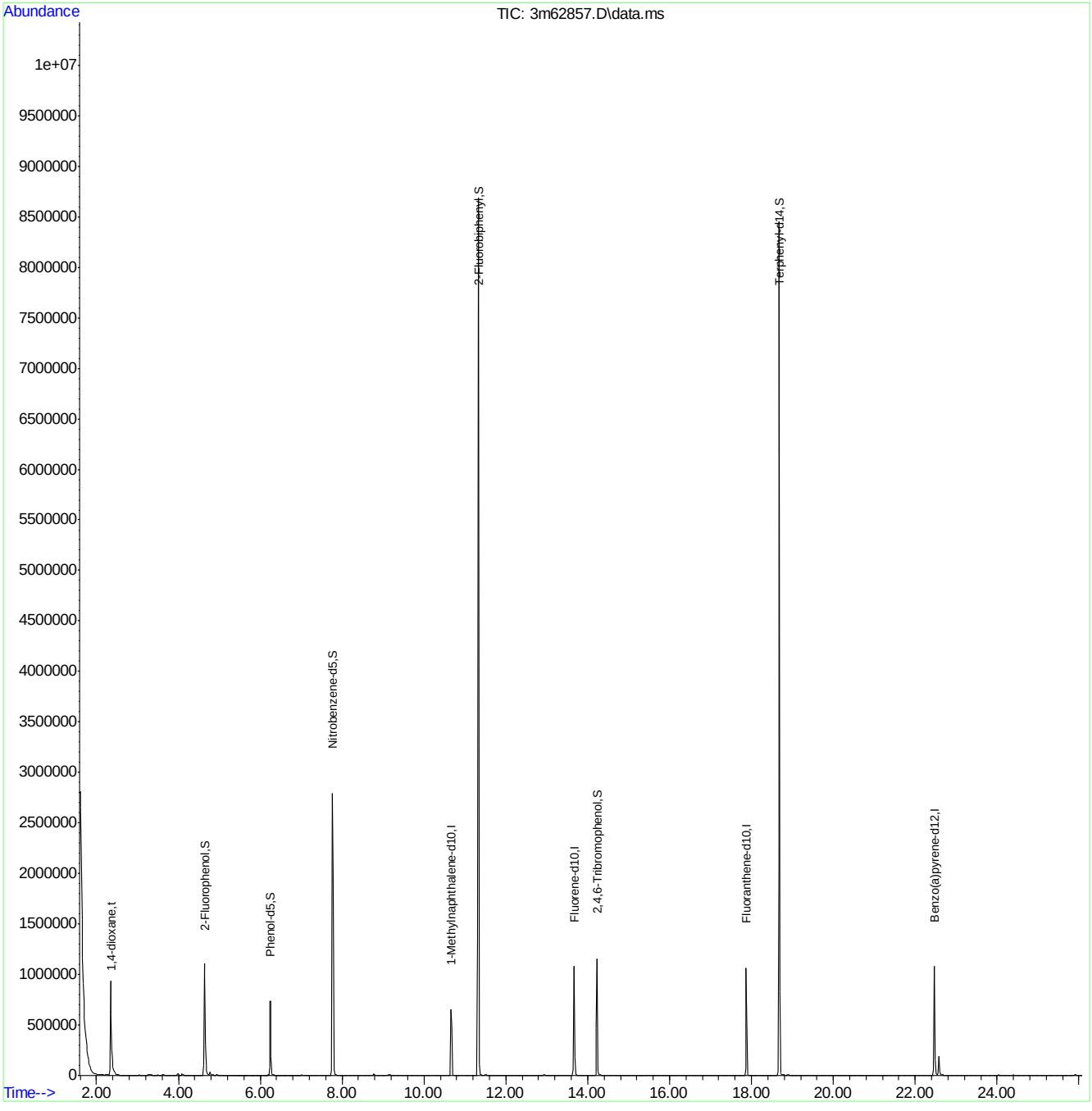
7.1.4

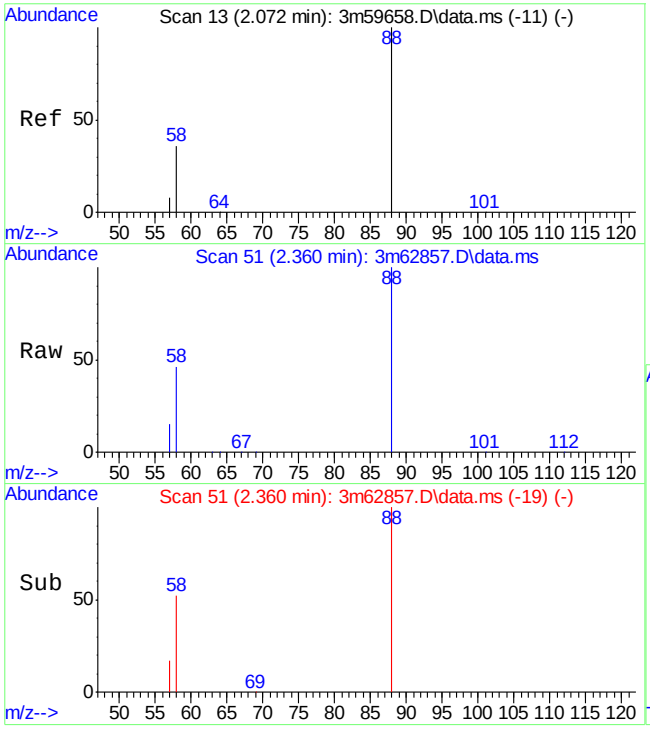
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62857.D
Acq On : 8 Jul 2016 1:35 pm
Operator : linseyk
Sample : jc23443-4
Misc : op95323a,e3m2968,940
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 10 09:05:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration

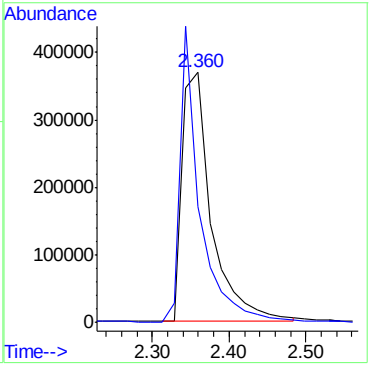




#2
1,4-dioxane
Concen: 29.68 ppm
RT: 2.360 min Scan# 51
Delta R.T. -0.008 min
Lab File: 3m62857.D
Acq: 8 Jul 2016 1:35 pm

Tgt Ion: 88 Resp: 972134

Ion	Ratio	Lower	Upper
88	100		
58	46.0	72.6	112.6#



7.1.4

7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112258a.D
Acq On : 10 Jul 2016 10:58 am
Operator : ARIELLEC
Sample : jc23443-4
Misc : op95323a,ez5607,940
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 11:41:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 08 15:09:40 2016
Response via : Initial Calibration

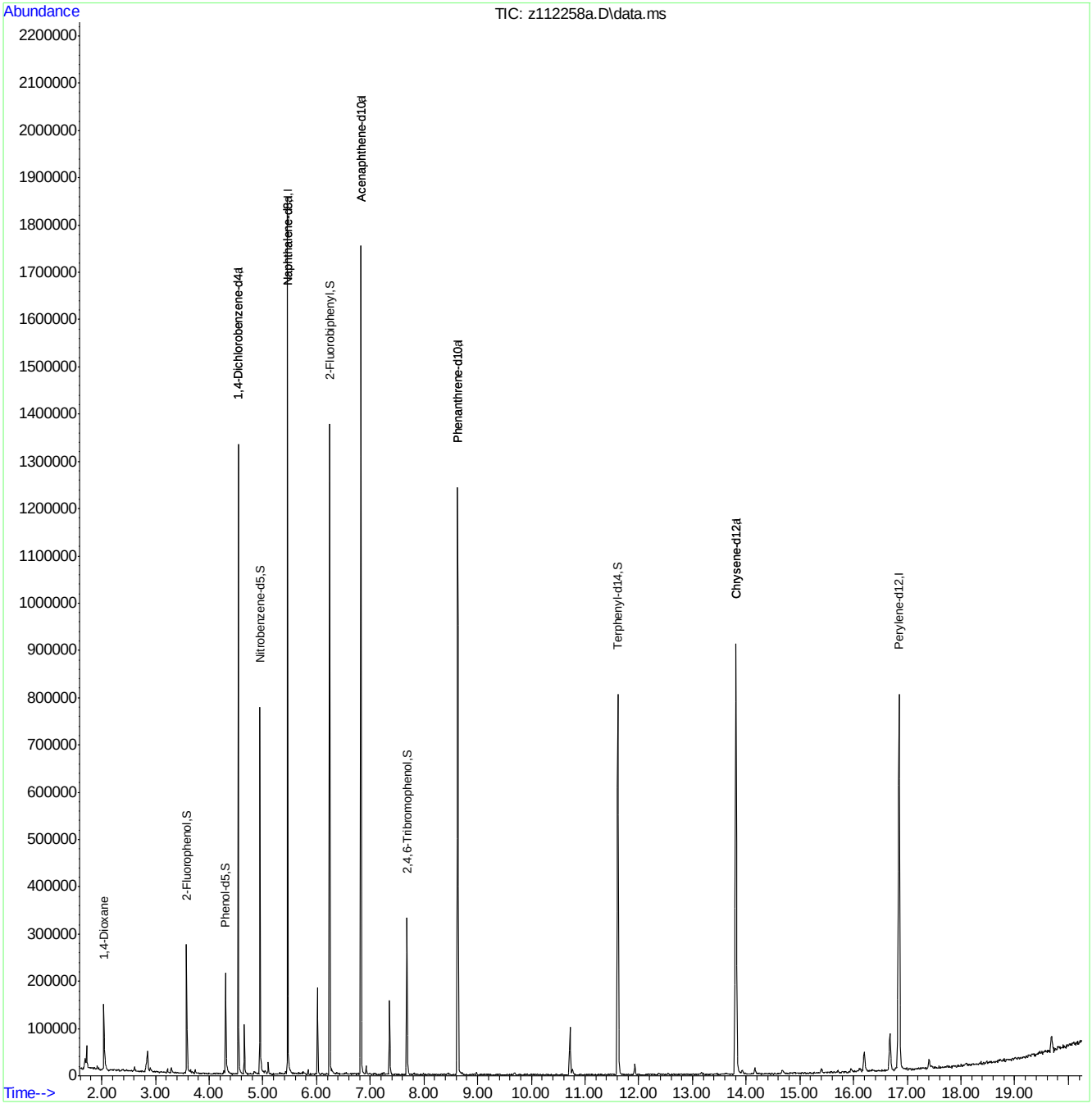
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.541	152	141307	40.00 ppm	-0.03
24) Naphthalene-d8	5.460	136	552136	40.00 ppm	-0.03
47) Acenaphthene-d10	6.828	164	324918	40.00 ppm	-0.10
69) Phenanthrene-d10	8.628	188	534299	40.00 ppm	-0.14
83) Chrysene-d12	13.810	240	501951	40.00 ppm	-0.17
91) Perylene-d12	16.850	264	444319	40.00 ppm	-0.19
101) 1,4-Dichlorobenzene-d4a	4.541	152	141307	40.00 ppm	-0.07
103) Phenanthrene-d10a	8.628	188	534299	40.00 ppm	-0.14
105) Chrysene-d12a	13.810	240	501951	40.00 ppm	-0.17
107) Acenaphthene-d10a	6.828	164	324918	40.00 ppm	-0.10
109) Naphthalene-d8a	5.460	136	552136	40.00 ppm	-0.08
System Monitoring Compounds					
5) 2-Fluorophenol	3.580	112	69233	14.18 ppm	-0.04
Spiked Amount 50.000			Recovery	= 28.36%	
8) Phenol-d5	4.306	99	64252	10.40 ppm	-0.03
Spiked Amount 50.000			Recovery	= 20.80%	
25) Nitrobenzene-d5	4.947	82	203274	38.93 ppm	-0.02
Spiked Amount 50.000			Recovery	= 77.86%	
51) 2-Fluorobiphenyl	6.246	172	339569	32.33 ppm	-0.08
Spiked Amount 50.000			Recovery	= 64.66%	
73) 2,4,6-Tribromophenol	7.683	330	30588	25.77 ppm	-0.12
Spiked Amount 50.000			Recovery	= 51.54%	
85) Terphenyl-d14	11.609	244	361118	33.23 ppm	-0.15
Spiked Amount 50.000			Recovery	= 66.46%	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.036	88	64616	31.34 ppm	98

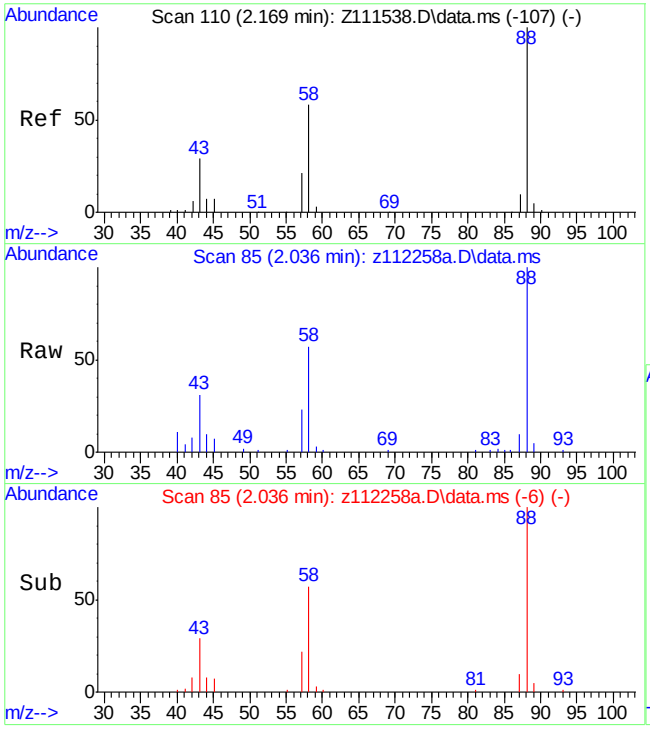
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112258a.D
Acq On : 10 Jul 2016 10:58 am
Operator : ARIELLEC
Sample : jc23443-4
Misc : op95323a,ez5607,940
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 11:41:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 08 15:09:40 2016
Response via : Initial Calibration

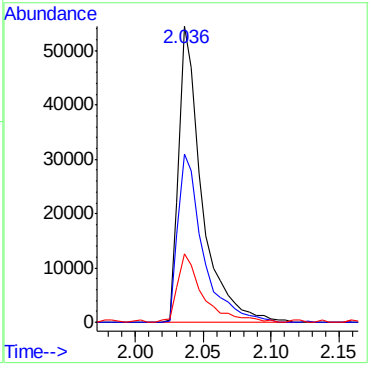




#2
1,4-Dioxane
Concen: 31.34 ppm
RT: 2.036 min Scan# 85
Delta R.T. -0.079 min
Lab File: z112258a.D
Acq: 10 Jul 2016 10:58 am

Tgt Ion: 88 Resp: 64616

Ion	Ratio	Lower	Upper
88	100		
58	56.8	38.4	78.4
57	22.4	1.5	41.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2998\
Data File : 4m66661.D
Acq On : 7 Jul 2016 7:33 am
Operator : JULIUSJ
Sample : jc23443-5
Misc : op95328a,e4m2998,910
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 07 09:11:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 06 14:54:08 2016
Response via : Initial Calibration

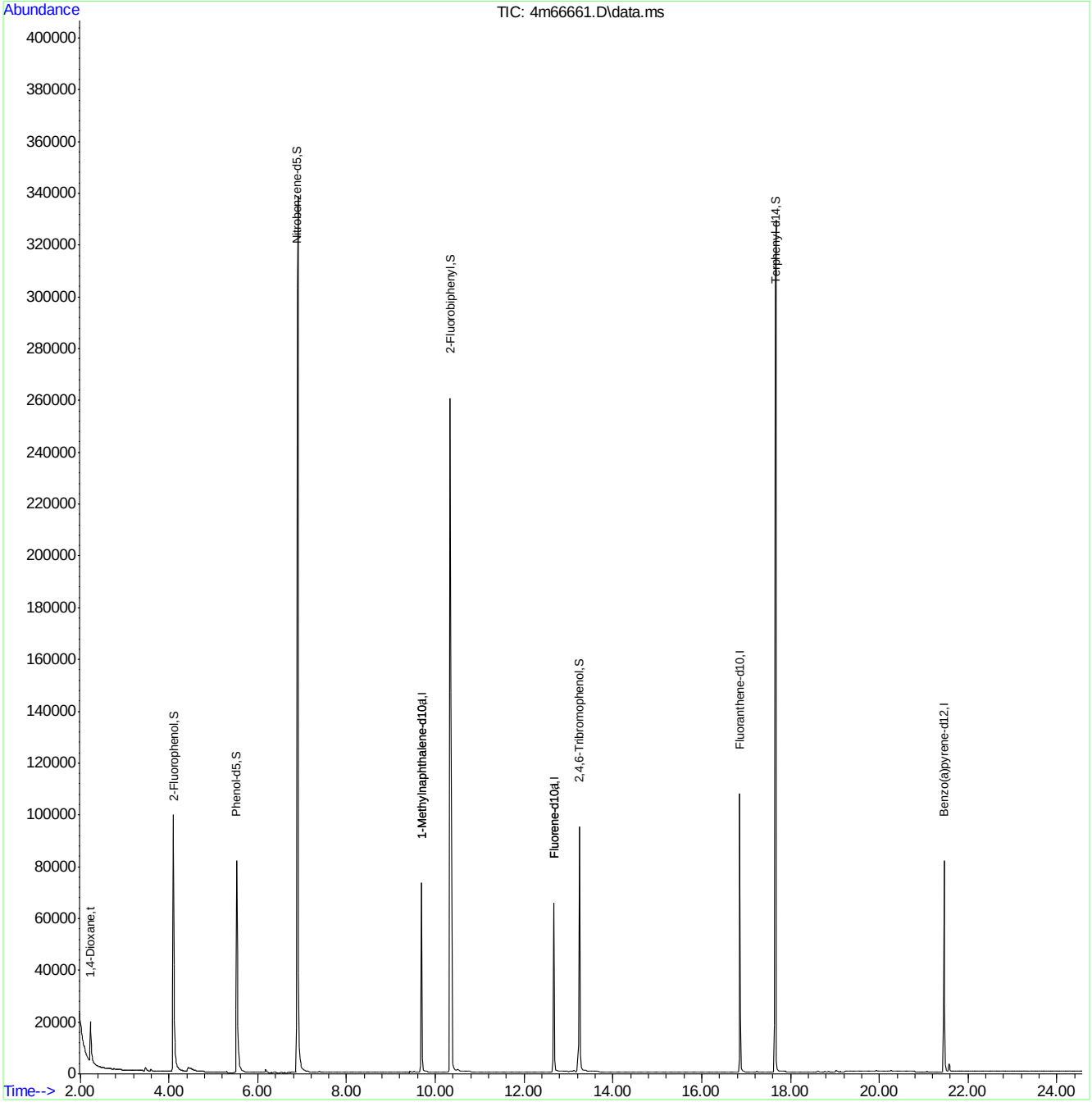
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.691	152	46165	4.00	ppm	-0.10
12) Fluorene-d10	12.673	176	50486	4.00	ppm	-0.09
22) Fluoranthene-d10	16.859	212	119808	4.00	ppm	-0.08
28) Benzo(a)pyrene-d12	21.460	264	90428	4.00	ppm	-0.06
35) 1-Methylnaphthalene-d10a	9.691	152	46165	4.00	ppm	#-0.10
38) Fluorene-d10a	12.673	176	50486	4.00	ppm	-0.09
System Monitoring Compounds						
2) 2-Fluorophenol	4.100	112	92349	12.55	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 25.10%			
3) Phenol-d5	5.525	99	109656	9.45	ppm	0.04
Spiked Amount 50.000			Recovery = 18.90%			
6) Nitrobenzene-d5	6.891	82	316433	30.67	ppm	-0.08
Spiked Amount 50.000			Recovery = 61.34%			
11) 2-Fluorobiphenyl	10.335	172	417810	22.48	ppm	-0.10
Spiked Amount 50.000			Recovery = 44.96%			
17) 2,4,6-Tribromophenol	13.242	330	75480	32.08	ppm	-0.07
Spiked Amount 50.000			Recovery = 64.16%			
25) Terphenyl-d14	17.668	244	566610	33.49	ppm	-0.08
Spiked Amount 50.000			Recovery = 66.98%			
Target Compounds						Qvalue
36) 1,4-Dioxane	2.226	88	17925	6.03	ppm	# 1

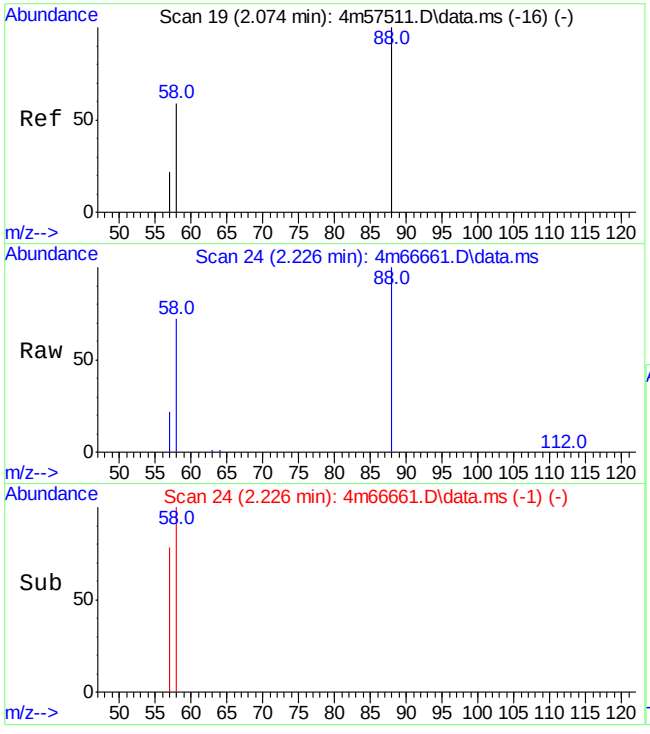
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2998\
Data File : 4m66661.D
Acq On : 7 Jul 2016 7:33 am
Operator : JULIUSJ
Sample : jc23443-5
Misc : op95328a,e4m2998,910
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 07 09:11:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 06 14:54:08 2016
Response via : Initial Calibration

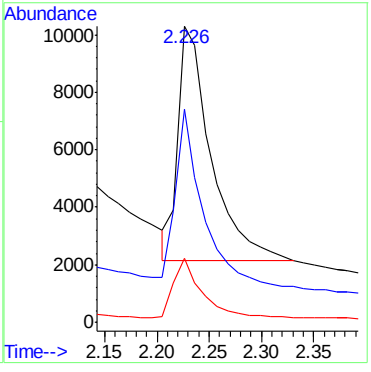




#36
1,4-Dioxane
Concen: 6.03 ppm
RT: 2.226 min Scan# 24
Delta R.T. -0.094 min
Lab File: 4m66661.D
Acq: 7 Jul 2016 7:33 am

Tgt Ion: 88 Resp: 17925

Ion	Ratio	Lower	Upper
88	100		
58	79.3	0.0	32.3#
57	26.6	0.0	25.8#



7.1.6

7

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4679\P105954.D Vial: 6
Acq On : 8 Jul 2016 2:10 pm Operator: brittanp
Sample : jc23443-5 Inst : MSP
Misc : op95328a,ep4679,910 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 08 14:32:17 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 08 12:04:46 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

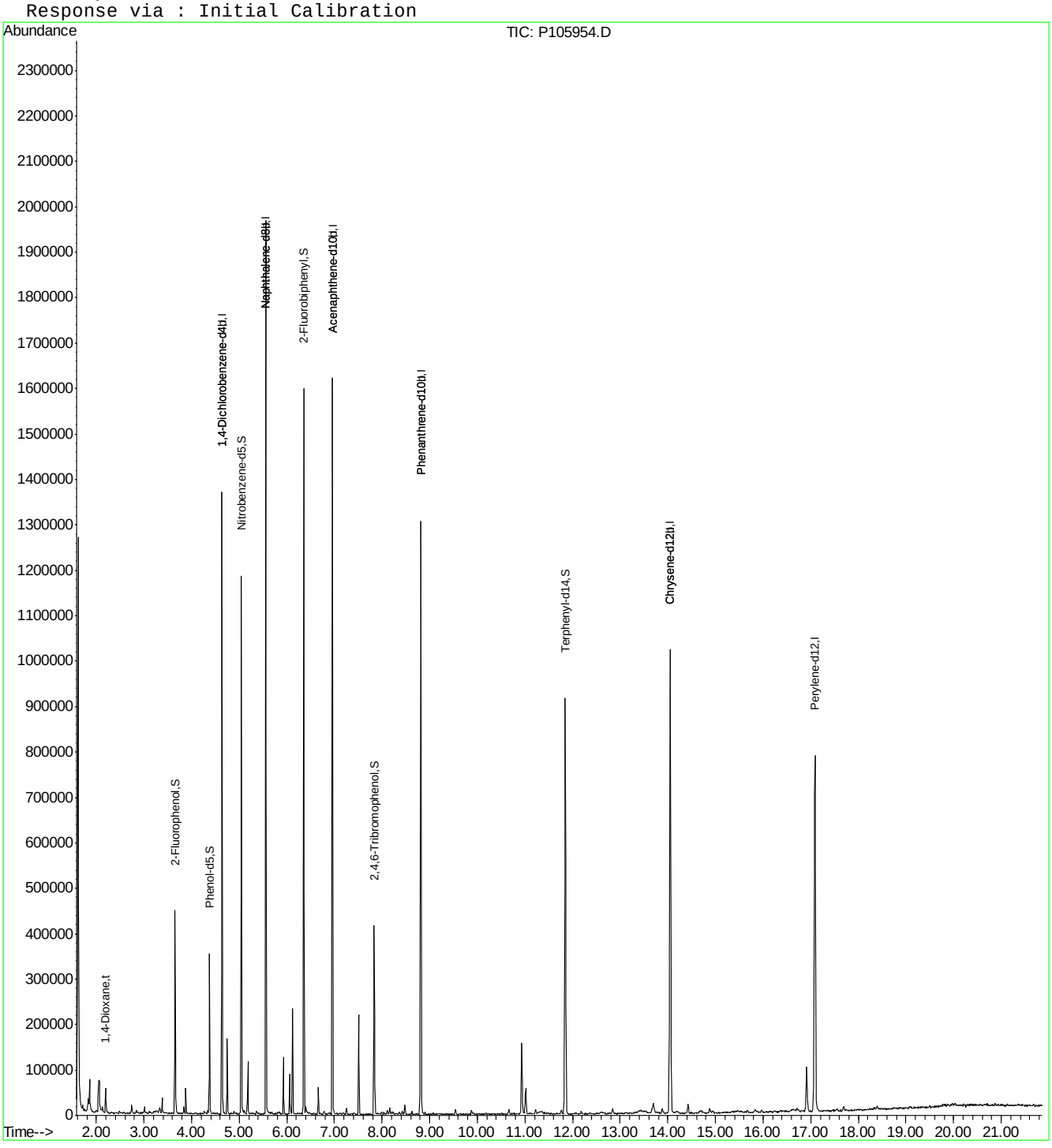
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.64	152	165943	40.00 ppm	-0.02
24) Naphthalene-d8	5.56	136	555448	40.00 ppm	-0.02
47) Acenaphthene-d10	6.96	164	333319	40.00 ppm	-0.02
69) Phenanthrene-d10	8.81	188	605710	40.00 ppm	-0.03
83) Chrysene-d12	14.05	240	594458	40.00 ppm	-0.04
91) Perylene-d12	17.09	264	490741	40.00 ppm	-0.04
101) 1,4-Dichlorobenzene-d4b	4.64	152	165943	40.00 ppm	-0.02
103) Phenanthrene-d10b	8.81	188	605710	40.00 ppm	-0.03
105) Chrysene-d12b	14.05	240	594458	40.00 ppm	-0.04
107) Naphthalene-d8b	5.56	136	555448	40.00 ppm	-0.02
109) Acenaphthene-d10b	6.96	164	333319	40.00 ppm	-0.02
System Monitoring Compounds					
5) 2-Fluorophenol	3.65	112	93086	14.90 ppm	-0.04
Spiked Amount 50.000			Recovery = 29.80%		
8) Phenol-d5	4.37	99	90745	10.94 ppm	-0.03
Spiked Amount 50.000			Recovery = 21.88%		
25) Nitrobenzene-d5	5.04	82	253694	47.34 ppm	-0.03
Spiked Amount 50.000			Recovery = 94.68%		
51) 2-Fluorobiphenyl	6.36	172	378380	44.67 ppm	-0.01
Spiked Amount 50.000			Recovery = 89.34%		
73) 2,4,6-Tribromophenol	7.84	330	42769	55.03 ppm	-0.02
Spiked Amount 50.000			Recovery = 110.06%		
85) Terphenyl-d14	11.85	244	432962	40.14 ppm	-0.10
Spiked Amount 50.000			Recovery = 80.28%		
Target Compounds					Qvalue
2) 1,4-Dioxane	2.19	88	18817	5.28 ppm	91

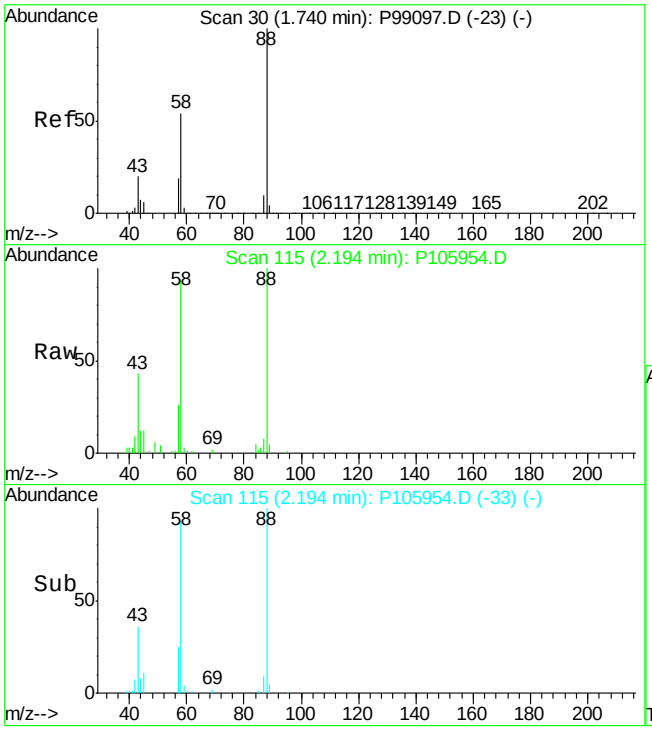
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4679\P105954.D Vial: 6
Acq On : 8 Jul 2016 2:10 pm Operator: brittanp
Sample : jc23443-5 Inst : MSP
Misc : op95328a,ep4679,910 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 15:02 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 08 14:55:07 2016
Response via : Initial Calibration

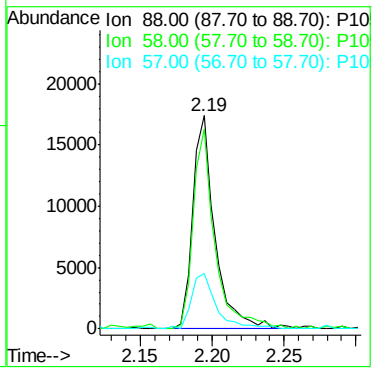




#2
1,4-Dioxane
Concen: 5.28 ppm
RT: 2.19 min Scan# 115
Delta R.T. -0.06 min
Lab File: P105954.D
Acq: 8 Jul 2016 2:10 pm

Tgt Ion: 88 Resp: 18817

Ion	Ratio	Lower	Upper
88	100		
58	93.2	52.7	112.7
57	25.9	0.0	56.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62853.D
Acq On : 8 Jul 2016 11:23 am
Operator : linseyk
Sample : op95323a-mb1
Misc : op95323a,e3m2968,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 10 08:50:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.661	150	684759	4.00	ppm	-0.10
14) Fluorene-d10	13.668	176	1032056	4.00	ppm	-0.06
21) Fluoranthene-d10	17.873	212	1582944	4.00	ppm	-0.05
31) Benzo(a)pyrene-d12	22.469	264	1331595	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.647	112	1687559	15.73	ppm	-0.07
Spiked Amount 50.000			Recovery = 31.46%			
4) Phenol-d5	6.249	99	1806256	10.64	ppm	-0.04
Spiked Amount 50.000			Recovery = 21.28%			
7) Nitrobenzene-d5	7.763	82	3860558	27.79	ppm	-0.12
Spiked Amount 50.000			Recovery = 55.58%			
15) 2-Fluorobiphenyl	11.337	172	8751793	27.70	ppm	-0.06
Spiked Amount 50.000			Recovery = 55.40%			
20) 2,4,6-Tribromophenol	14.233	330	1103682	33.09	ppm	-0.01
Spiked Amount 50.000			Recovery = 66.18%			
28) Terphenyl-d14	18.677	244	7644827	32.07	ppm	-0.03
Spiked Amount 50.000			Recovery = 64.14%			

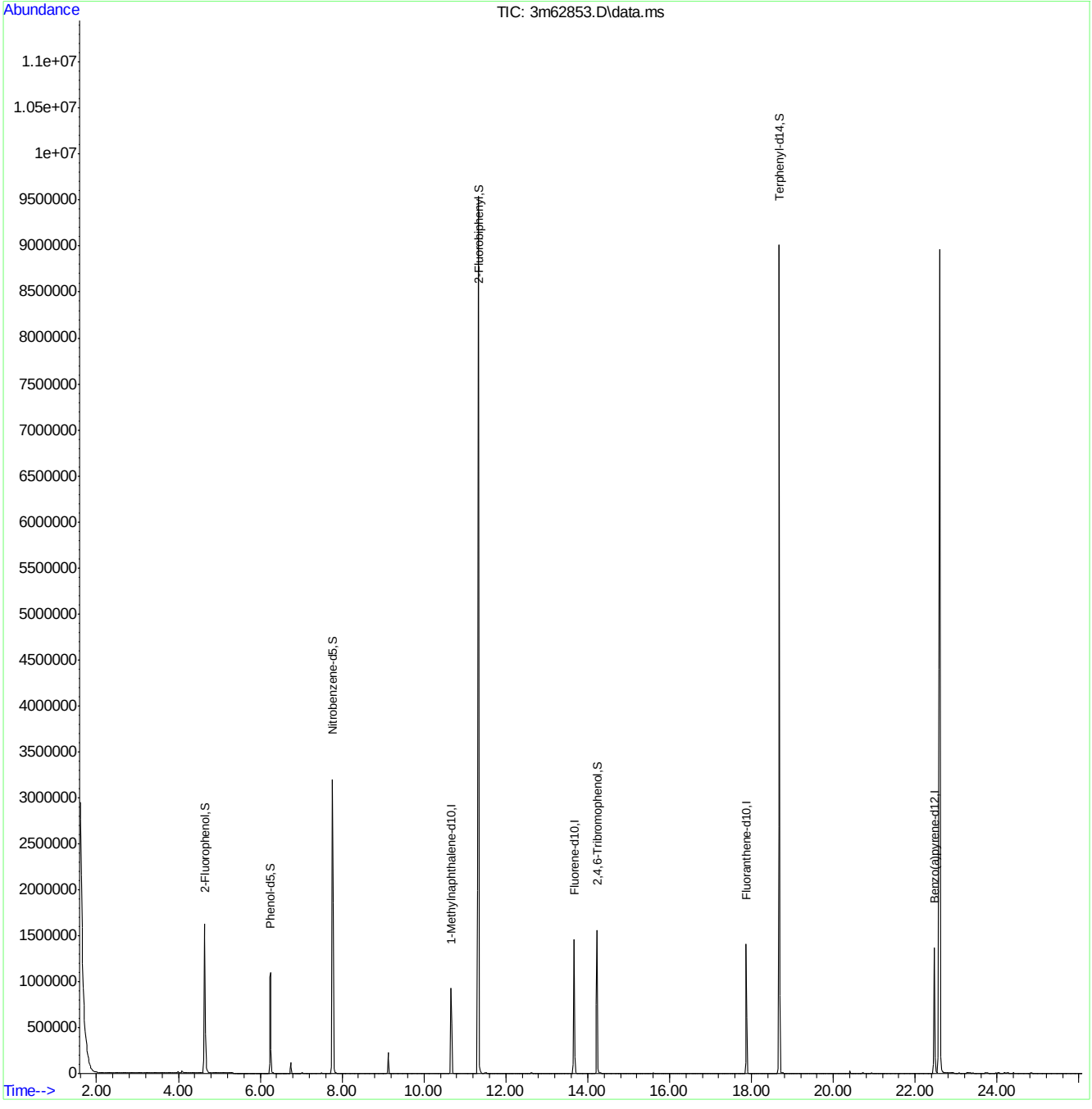
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62853.D
Acq On : 8 Jul 2016 11:23 am
Operator : linseyk
Sample : op95323a-mb1
Misc : op95323a,e3m2968,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 10 08:50:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4679\P105953.D Vial: 5
Acq On : 8 Jul 2016 1:35 pm Operator: brittanp
Sample : op95328a-mb1 Inst : MSP
Misc : op95328a,ep4679,1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 08 13:57:20 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 08 12:04:46 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.64	152	153632	40.00	ppm	-0.02
24) Naphthalene-d8	5.56	136	517350	40.00	ppm	-0.02
47) Acenaphthene-d10	6.96	164	312109	40.00	ppm	-0.02
69) Phenanthrene-d10	8.81	188	596040	40.00	ppm	-0.03
83) Chrysene-d12	14.05	240	587910	40.00	ppm	-0.04
91) Perylene-d12	17.09	264	499178	40.00	ppm	-0.04
101) 1,4-Dichlorobenzene-d4b	4.64	152	153632	40.00	ppm	-0.02
103) Phenanthrene-d10b	8.81	188	596040	40.00	ppm	-0.03
105) Chrysene-d12b	14.05	240	587910	40.00	ppm	-0.04
107) Naphthalene-d8b	5.56	136	517350	40.00	ppm	-0.02
109) Acenaphthene-d10b	6.96	164	312109	40.00	ppm	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	3.65	112	143889	24.87	ppm	-0.04
Spiked Amount 50.000			Recovery = 49.74%			
8) Phenol-d5	4.37	99	133133	17.33	ppm	-0.03
Spiked Amount 50.000			Recovery = 34.66%			
25) Nitrobenzene-d5	5.04	82	291745	58.45	ppm	-0.03
Spiked Amount 50.000			Recovery = 116.90%			
51) 2-Fluorobiphenyl	6.36	172	476395	60.06	ppm	-0.01
Spiked Amount 50.000			Recovery = 120.12%			
73) 2,4,6-Tribromophenol	7.84	330	68214	89.19	ppm	-0.02
Spiked Amount 50.000			Recovery = 178.38%			
85) Terphenyl-d14	11.85	244	549231	51.49	ppm	-0.10
Spiked Amount 50.000			Recovery = 102.98%			

Target Compounds Qvalue

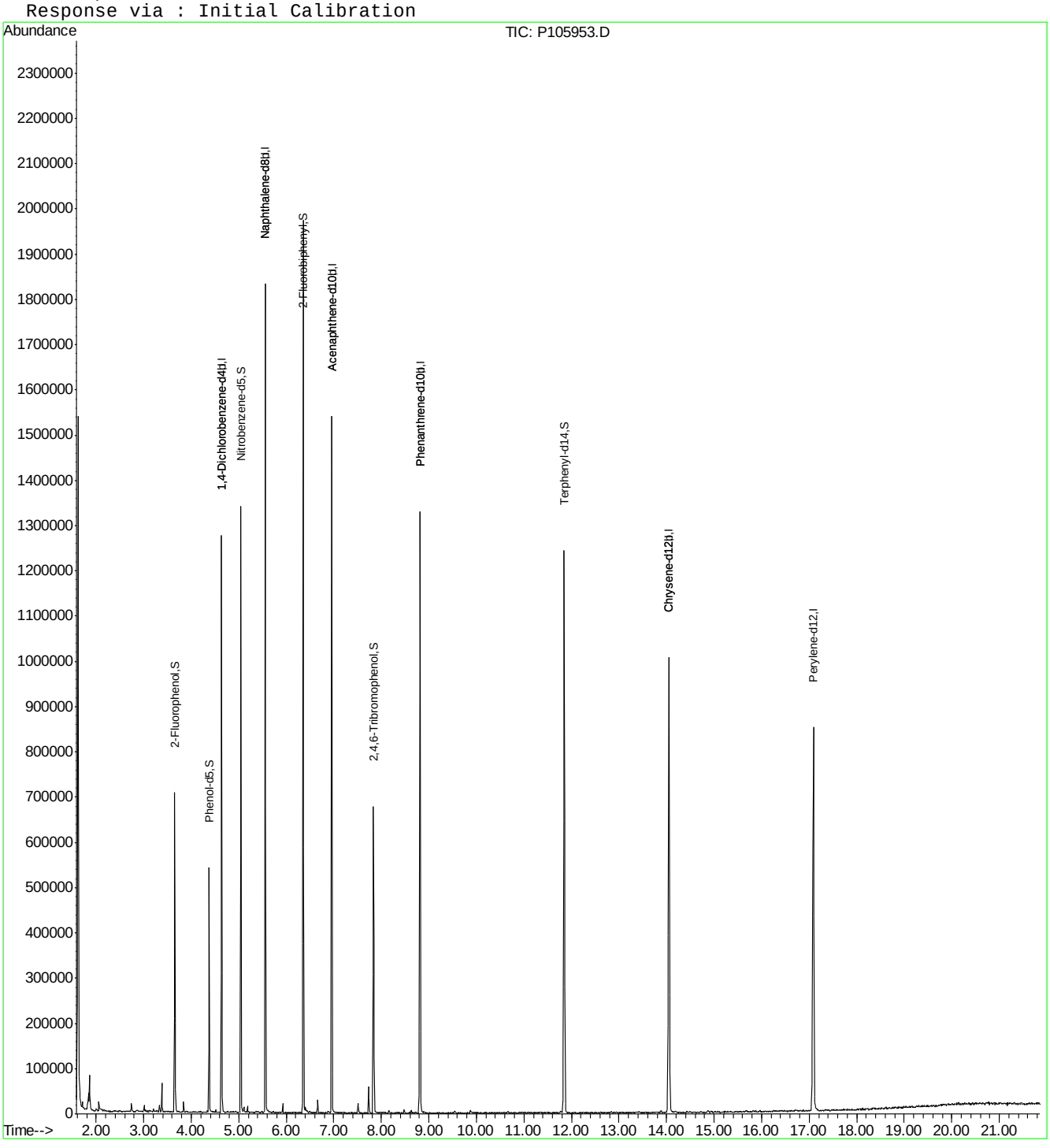
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4679\P105953.D Vial: 5
Acq On : 8 Jul 2016 1:35 pm Operator: brittanp
Sample : op95328a-mb1 Inst : MSP
Misc : op95328a,ep4679,1000 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 15:00 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 08 14:55:07 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66742a.D
Acq On : 9 Jul 2016 1:56 pm
Operator : ashleyd
Sample : op95328a-mb1
Misc : op95328a,e4m3003,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 14:24:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.643	152	36036	4.00	ppm	#-0.05
12) Fluorene-d10	12.636	176	61003	4.00	ppm	-0.02
22) Fluoranthene-d10	16.826	212	102292	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.424	264	85842	4.00	ppm	-0.03
35) 1-Methylnaphthalene-d10a	9.643	152	36036	4.00	ppm	#-0.05
38) Fluorene-d10a	12.636	176	61003	4.00	ppm	-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	4.048	112	140516	24.47	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 48.94%			
3) Phenol-d5	5.470	99	153119	16.91	ppm	0.04
Spiked Amount 50.000			Recovery = 33.82%			
6) Nitrobenzene-d5	6.860	82	347446	43.14	ppm	-0.04
Spiked Amount 50.000			Recovery = 86.28%			
11) 2-Fluorobiphenyl	10.311	172	692830	47.77	ppm	-0.02
Spiked Amount 50.000			Recovery = 95.54%			
17) 2,4,6-Tribromophenol	13.185	330	101168	35.58	ppm	-0.02
Spiked Amount 50.000			Recovery = 71.16%			
25) Terphenyl-d14	17.617	244	678070	46.94	ppm	-0.03
Spiked Amount 50.000			Recovery = 93.88%			
Target Compounds						Qvalue

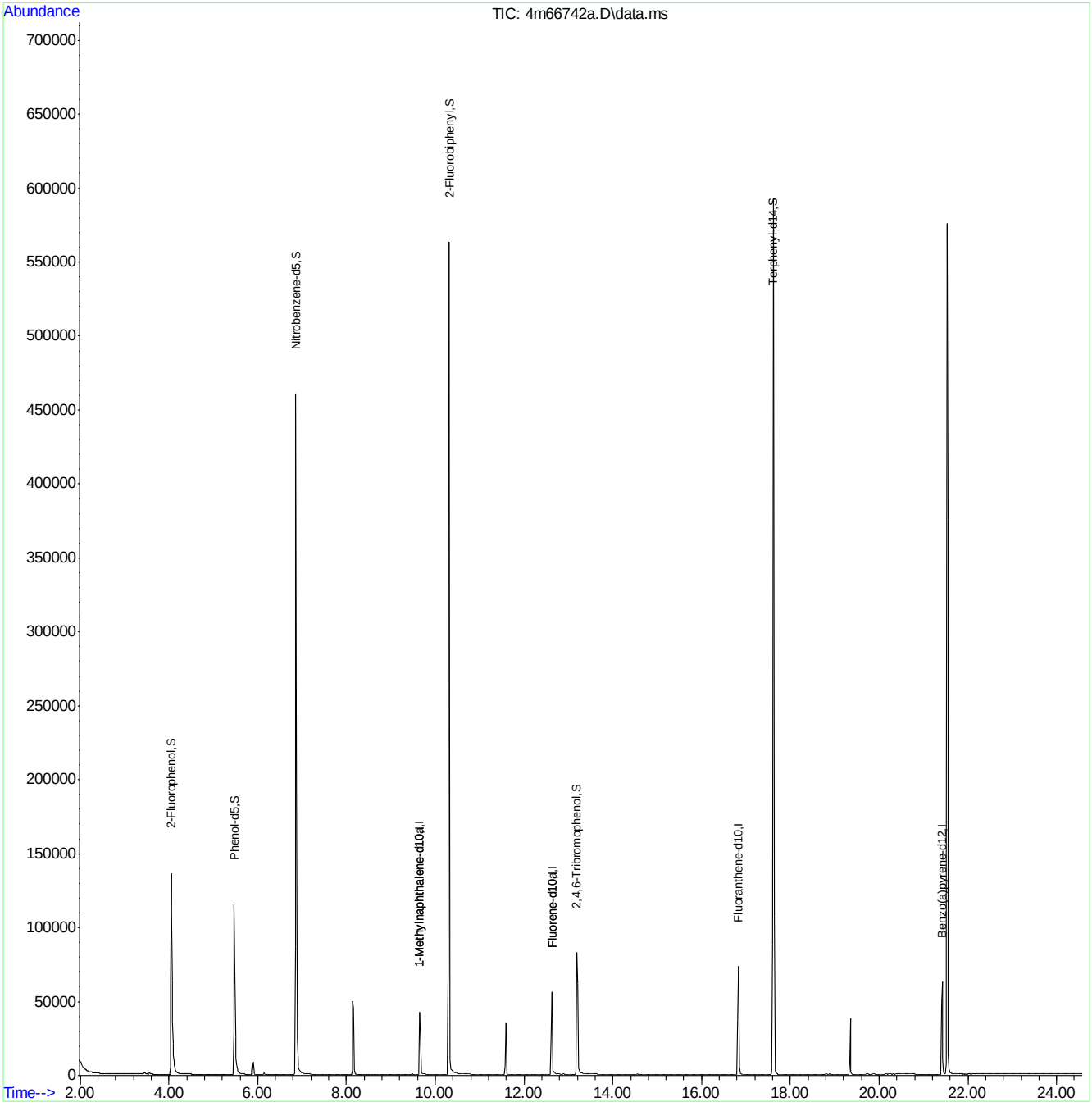
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66742a.D
Acq On : 9 Jul 2016 1:56 pm
Operator : ashleyd
Sample : op95328a-mb1
Misc : op95328a,e4m3003,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 14:24:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P944\
Data File : 4p17752.D
Acq On : 12 Jul 2016 8:23 pm
Operator : ashleyd
Sample : op95328a-mb1
Misc : op95328a,e4p944,1000
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 14 16:12:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 12 15:04:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.270	150	127966	4.00	ppm	0.00
13) Fluorene-d10	10.185	176	151280	4.00	ppm	-0.03
23) Fluoranthene-d10	14.405	212	259243	4.00	ppm	-0.01
33) Benzo(a)pyrene-d12	19.069	264	166781	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.294	112	458472	26.16	ppm	-0.19
Spiked Amount 50.000			Recovery = 52.32%			
4) Phenol-d5	3.376	99	461467	15.59	ppm	-0.14
Spiked Amount 50.000			Recovery = 31.18%			
7) Nitrobenzene-d5	4.624	82	1122503	51.96	ppm	-0.12
Spiked Amount 50.000			Recovery = 103.92%			
14) 2-Fluorobiphenyl	7.934	172	1820074	44.81	ppm	-0.10
Spiked Amount 50.000			Recovery = 89.62%			
22) 2,4,6-Tribromophenol	10.739	330	250615	59.96	ppm	0.03
Spiked Amount 50.000			Recovery = 119.92%			
30) Terphenyl-d14	15.300	244	1722161	53.01	ppm	0.01
Spiked Amount 50.000			Recovery = 106.02%			

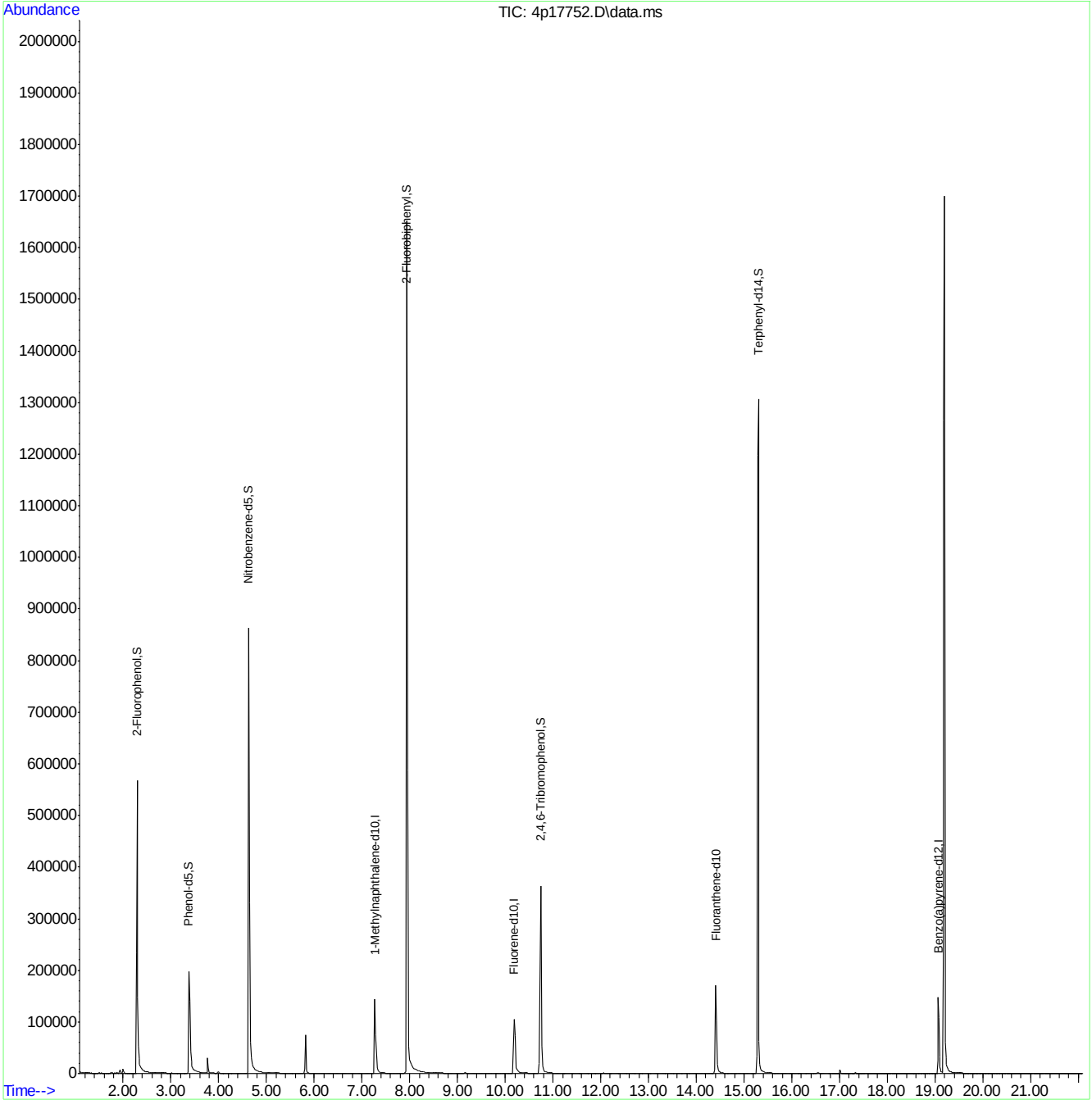
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P944\
Data File : 4p17752.D
Acq On : 12 Jul 2016 8:23 pm
Operator : ashleyd
Sample : op95328a-mb1
Misc : op95328a,e4p944,1000
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 14 16:12:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 12 15:04:08 2016
Response via : Initial Calibration



M4P887SIM.M Thu Jul 14 16:13:03 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2509\
Data File : 3p55085.D
Acq On : 13 Jul 2016 3:02 pm
Operator : ashleyd
Sample : op95323a-mb1
Misc : op95323a,e3p2509,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 13 16:17:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 16:19:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.018	150	88648	4.00	ppm	#-0.08
14) Fluorene-d10	13.998	176	116744	4.00	ppm	-0.09
21) Fluoranthene-d10	18.163	212	146284	4.00	ppm	#-0.03
31) Benzo(a)pyrene-d12	22.718	264	90076	4.00	ppm	-0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.976	112	205557	14.36	ppm	-0.06
Spiked Amount 50.000			Recovery = 28.72%			
4) Phenol-d5	6.542	99	208448	10.88	ppm	-0.06
Spiked Amount 50.000			Recovery = 21.76%			
7) Nitrobenzene-d5	8.130	82	397739	27.60	ppm	-0.08
Spiked Amount 50.000			Recovery = 55.20%			
15) 2-Fluorobiphenyl	11.674	172	721073	25.10	ppm	-0.08
Spiked Amount 50.000			Recovery = 50.20%			
20) 2,4,6-Tribromophenol	14.545	330	108426	29.67	ppm	-0.09
Spiked Amount 50.000			Recovery = 59.34%			
28) Terphenyl-d14	18.936	244	558915	29.02	ppm	-0.03
Spiked Amount 50.000			Recovery = 58.04%			

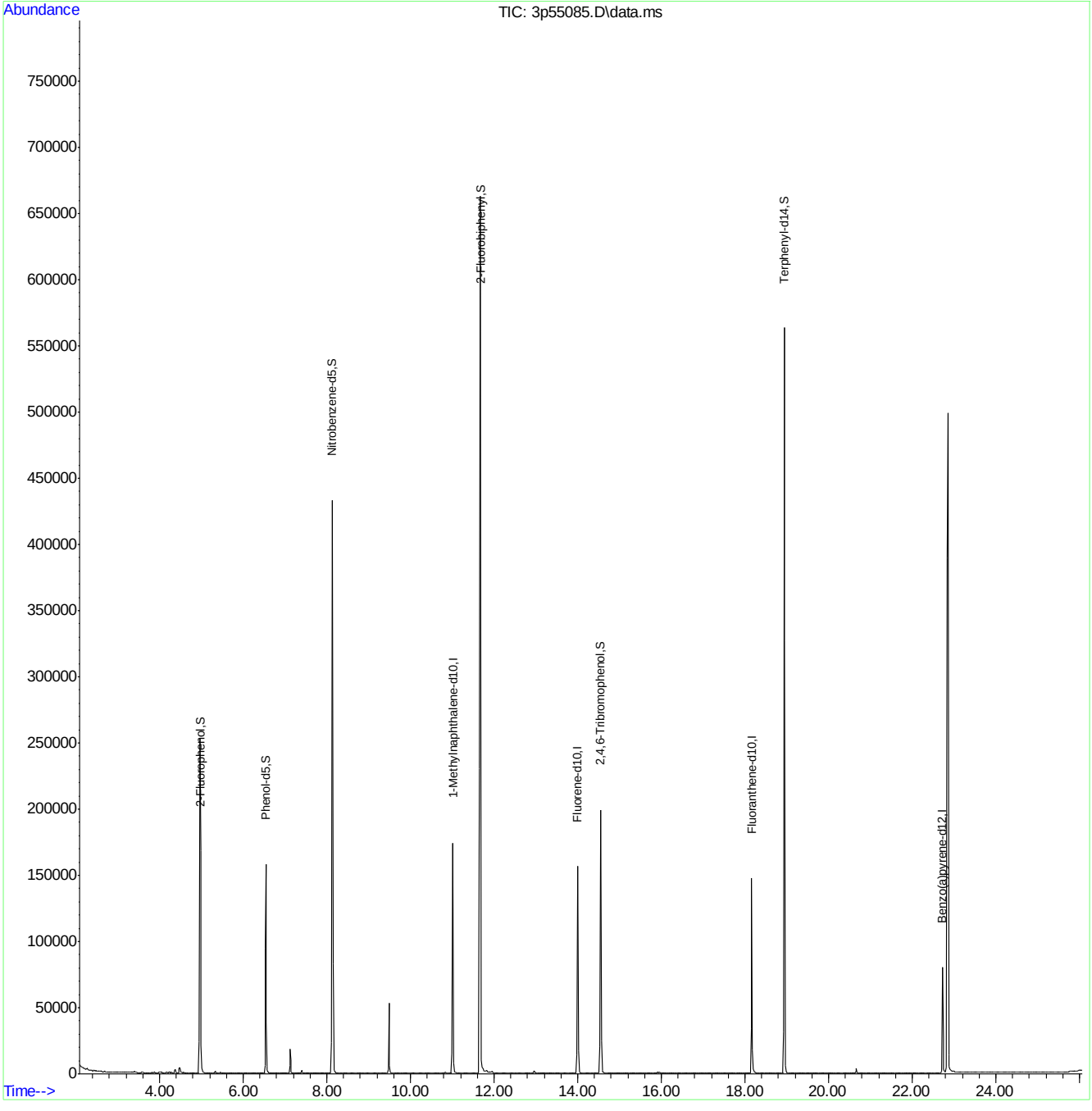
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2509\
Data File : 3p55085.D
Acq On : 13 Jul 2016 3:02 pm
Operator : ashleyd
Sample : op95323a-mb1
Misc : op95323a,e3p2509,1000
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 13 16:17:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 16:19:17 2016
Response via : Initial Calibration



M3P2503SIM.M Wed Jul 13 16:18:02 2016 Page: 2

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17784.D
Acq On : 14 Jul 2016 12:19 am
Operator : juliusj
Sample : op95323a-mb1
Misc : op95323a,e4p946,1000
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 14 17:32:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 17:30:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.260	150	186491	4.00	ppm	0.00
13) Fluorene-d10	10.174	176	214897	4.00	ppm	0.00
23) Fluoranthene-d10	14.397	212	340990	4.00	ppm	0.00
33) Benzo(a)pyrene-d12	19.070	264	240325	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	2.308	112	360620	14.12	ppm	-0.18
Spiked Amount 50.000			Recovery = 28.24%			
4) Phenol-d5	3.410	99	446409	10.35	ppm	-0.10
Spiked Amount 50.000			Recovery = 20.70%			
7) Nitrobenzene-d5	4.619	82	938785	29.82	ppm	-0.12
Spiked Amount 50.000			Recovery = 59.64%			
14) 2-Fluorobiphenyl	7.924	172	2010688	34.85	ppm	-0.08
Spiked Amount 50.000			Recovery = 69.70%			
22) 2,4,6-Tribromophenol	10.731	330	224908	37.88	ppm	0.06
Spiked Amount 50.000			Recovery = 75.76%			
30) Terphenyl-d14	15.275	244	1503559	35.19	ppm	0.00
Spiked Amount 50.000			Recovery = 70.38%			

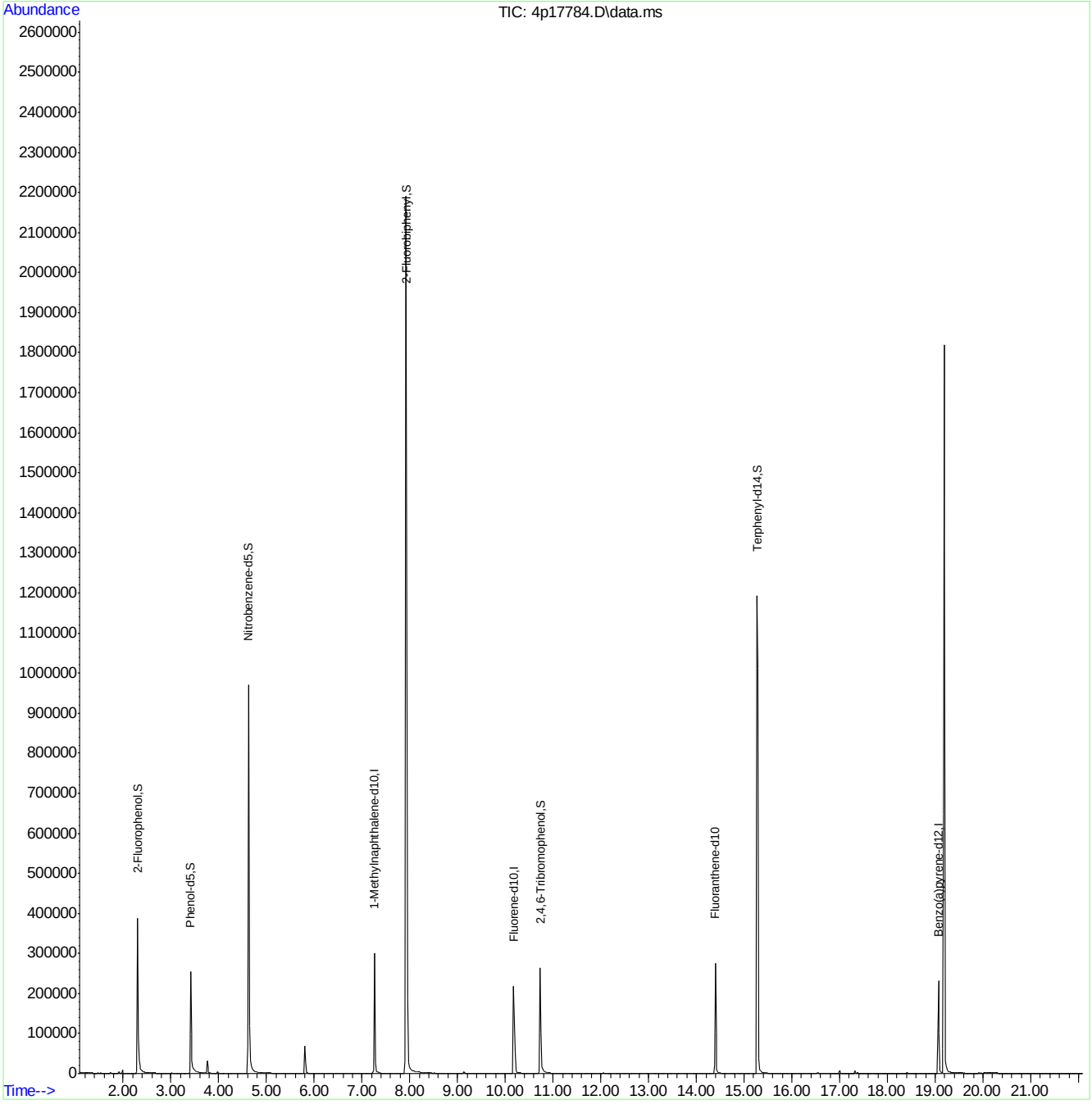
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17784.D
Acq On : 14 Jul 2016 12:19 am
Operator : juliusj
Sample : op95323a-mb1
Misc : op95323a,e4p946,1000
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 14 17:32:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 17:30:45 2016
Response via : Initial Calibration



M4P887SIM.M Thu Jul 14 17:32:47 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66743.D
Acq On : 9 Jul 2016 1:26 pm
Operator : ashleyd
Sample : op95328a-bs12
Misc : op95328a,e4m3003,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 12 14:24:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	36857	4.00	ppm	-0.02
12) Fluorene-d10	12.636	176	64808	4.00	ppm	-0.02
22) Fluoranthene-d10	16.826	212	108325	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.424	264	89665	4.00	ppm	-0.03
35) 1-Methylnaphthalene-d10a	9.667	152	36857	4.00	ppm	-0.02
38) Fluorene-d10a	12.636	176	64808	4.00	ppm	-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	4.059	112	148124	25.22	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 50.44%			
3) Phenol-d5	5.470	99	165585	17.88	ppm	0.04
Spiked Amount 50.000			Recovery = 35.76%			
6) Nitrobenzene-d5	6.860	82	351562	42.67	ppm	-0.04
Spiked Amount 50.000			Recovery = 85.34%			
11) 2-Fluorobiphenyl	10.311	172	701007	47.25	ppm	-0.02
Spiked Amount 50.000			Recovery = 94.50%			
17) 2,4,6-Tribromophenol	13.186	330	111860	37.03	ppm	-0.02
Spiked Amount 50.000			Recovery = 74.06%			
25) Terphenyl-d14	17.617	244	703277	45.97	ppm	-0.03
Spiked Amount 50.000			Recovery = 91.94%			
Target Compounds						Qvalue
4) Phenol	5.497	94	23613	2.36	ppm	76
5) bis(2-Chloroethyl)ether	5.497	93	6934	0.98	ppm #	42
7) Naphthalene	8.191	128	20723	0.81	ppm	99
8) Hexachlorobutadiene	8.454	225	3577	0.82	ppm	82
9) 2-Methylnaphthalene	9.524	142	10561	0.87	ppm #	51
10) Hexachlorocyclopentadiene	9.858	237	417	0.80	ppm	77
13) Acenaphthylene	11.290	152	16194	0.94	ppm	96
14) Acenaphthene	11.631	153	9775	0.92	ppm	96
15) Dibenzofuran	12.008	168	15776	0.91	ppm	100
16) Fluorene	12.684	166	15880	0.83	ppm	95
18) Hexachlorobenzene	13.776	284	5307	0.83	ppm	91
19) Pentachlorophenol	14.247	266	4234	1.79	ppm	92
20) Phenanthrene	14.586	178	23628	0.91	ppm	99
21) Anthracene	14.699	178	20573	0.86	ppm	99
23) Fluoranthene	16.845	202	26310	0.83	ppm	96
24) Pyrene	17.241	202	27874	0.90	ppm	94
26) Benzo[a]anthracene	19.331	228	25352	0.95	ppm #	90
27) Chrysene	19.387	228	22432	0.81	ppm	90
29) Benzo[b]fluoranthene	20.997	252	22456	0.72	ppm	96
30) Benzo[k]fluoranthene	21.038	252	23548	0.78	ppm	98
31) Benzo[a]pyrene	21.451	252	20605	0.73	ppm	95
32) Indeno[1,2,3-cd]pyrene	22.966	276	24326	0.74	ppm	91
33) Dibenz[a,h]anthracene	23.007	278	20126	0.74	ppm	94
34) Benzo[g,h,i]perylene	23.351	276	20425	0.71	ppm	98
36) 1,4-Dioxane	2.205	88	1307	0.48	ppm #	29
39) 4,6-dinitro-2-methylph...	12.899	198	12195	4.00	ppm	98
40) 1,2-Diphenylhydrazine	13.042	77	15288	0.85	ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66743.D
Acq On : 9 Jul 2016 1:26 pm
Operator : ashleyd
Sample : op95328a-bs12
Misc : op95328a,e4m3003,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 12 14:24:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) n-nitrosodiphenylamine	13.018	169	9282	0.73	ppm #	67

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.1

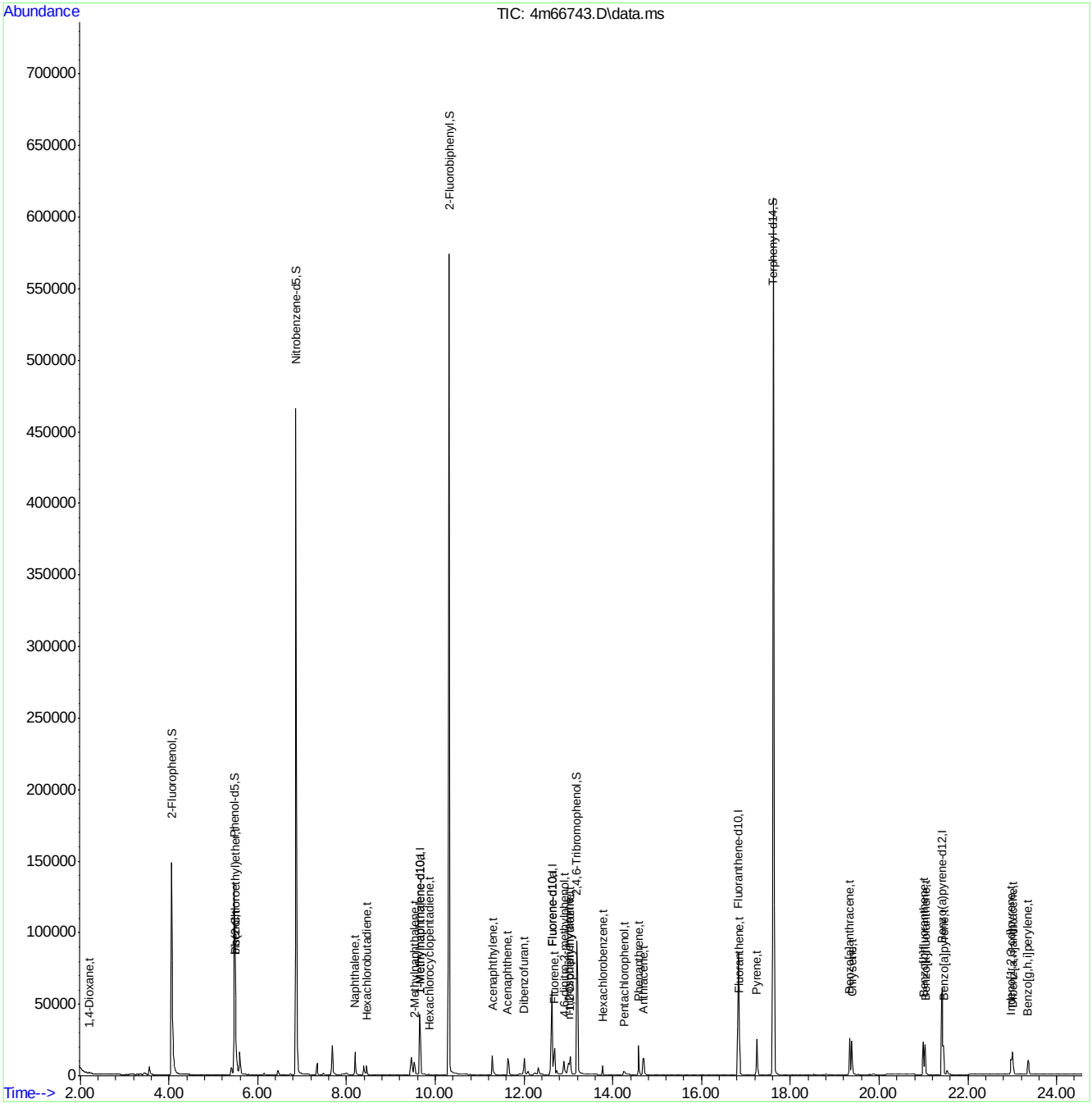
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66743.D
Acq On : 9 Jul 2016 1:26 pm
Operator : ashleyd
Sample : op95328a-bs12
Misc : op95328a,e4m3003,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 12 14:24:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration



M4M2974SIM.M Tue Jul 12 14:24:35 2016 MANAGER Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17785.D
Acq On : 14 Jul 2016 12:47 am
Operator : juliusj
Sample : op95323a-bs12
Misc : op95323a,e4p946,1000
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 14 17:34:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 17:30:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.260	150	166464	4.00	ppm	0.00
13) Fluorene-d10	10.174	176	195804	4.00	ppm	0.00
23) Fluoranthene-d10	14.397	212	315072	4.00	ppm	0.00
33) Benzo(a)pyrene-d12	19.070	264	215106	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	2.307	112	358447	15.72	ppm	-0.18
Spiked Amount 50.000			Recovery = 31.44%			
4) Phenol-d5	3.410	99	454812	11.81	ppm	-0.10
Spiked Amount 50.000			Recovery = 23.62%			
7) Nitrobenzene-d5	4.618	82	801090	28.51	ppm	-0.12
Spiked Amount 50.000			Recovery = 57.02%			
14) 2-Fluorobiphenyl	7.924	172	1812923	34.48	ppm	-0.08
Spiked Amount 50.000			Recovery = 68.96%			
22) 2,4,6-Tribromophenol	10.731	330	201395	37.22	ppm	0.06
Spiked Amount 50.000			Recovery = 74.44%			
30) Terphenyl-d14	15.274	244	1433450	36.31	ppm	0.00
Spiked Amount 50.000			Recovery = 72.62%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.181	88	4211	0.33	ppm	89
5) Phenol	3.427	94	54782	1.28	ppm #	90
6) bis(2-Chloroethyl)ether	3.445	93	18457	0.57	ppm	73
8) Naphthalene	5.861	128	47625	0.43	ppm	92
9) Hexachlorobutadiene	6.148	225	8046	0.43	ppm	93
10) 2-Methylnaphthalene	7.145	141	33502	0.57	ppm #	24
15) Acenaphthylene	8.841	152	42018	0.55	ppm	97
16) Acenaphthene	9.207	153	28512	0.70	ppm	93
17) Dibenzofuran	9.551	168	41719	0.59	ppm #	36
18) Fluorene	10.223	166	36574	0.72	ppm	69
19) 4,6-dinitro-2-methylph...	10.471	198	2273	1.24	ppm #	37
20) n-nitrosodiphenylamine	10.584	169	21182	0.71	ppm	96
21) 1,2-Diphenylhydrazine	10.605	77	27261	0.54	ppm	84
24) Hexachlorobenzene	11.316	284	9624	0.52	ppm	82
25) Pentachlorophenol	11.815	266	3358	0.60	ppm	94
26) Phenanthrene	12.091	178	48537	0.57	ppm	97
27) Anthracene	12.194	178	44198	0.53	ppm	99
28) Fluoranthene	14.431	202	52357	0.53	ppm	95
29) Pyrene	14.827	202	51653	0.57	ppm	99
31) Benzo[a]anthracene	16.987	228	34053	0.53	ppm	98
32) Chrysene	17.044	228	39455	0.51	ppm	98
34) Benzo[b]fluoranthene	18.656	252	27778	0.36	ppm	94
35) Benzo[k]fluoranthene	18.691	252	25460	0.39	ppm	93
36) Benzo[a]pyrene	19.093	252	24418	0.35	ppm	97
37) Indeno[1,2,3-cd]pyrene	20.524	276	17261	0.23	ppm	97
38) Dibenz[a,h]anthracene	20.563	278	14618	0.24	ppm	79
39) Benzo[g,h,i]perylene	20.812	276	14661	0.21	ppm	98

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17785.D
Acq On : 14 Jul 2016 12:47 am
Operator : juliusj
Sample : op95323a-bs12
Misc : op95323a,e4p946,1000
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 14 17:34:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 17:30:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.2

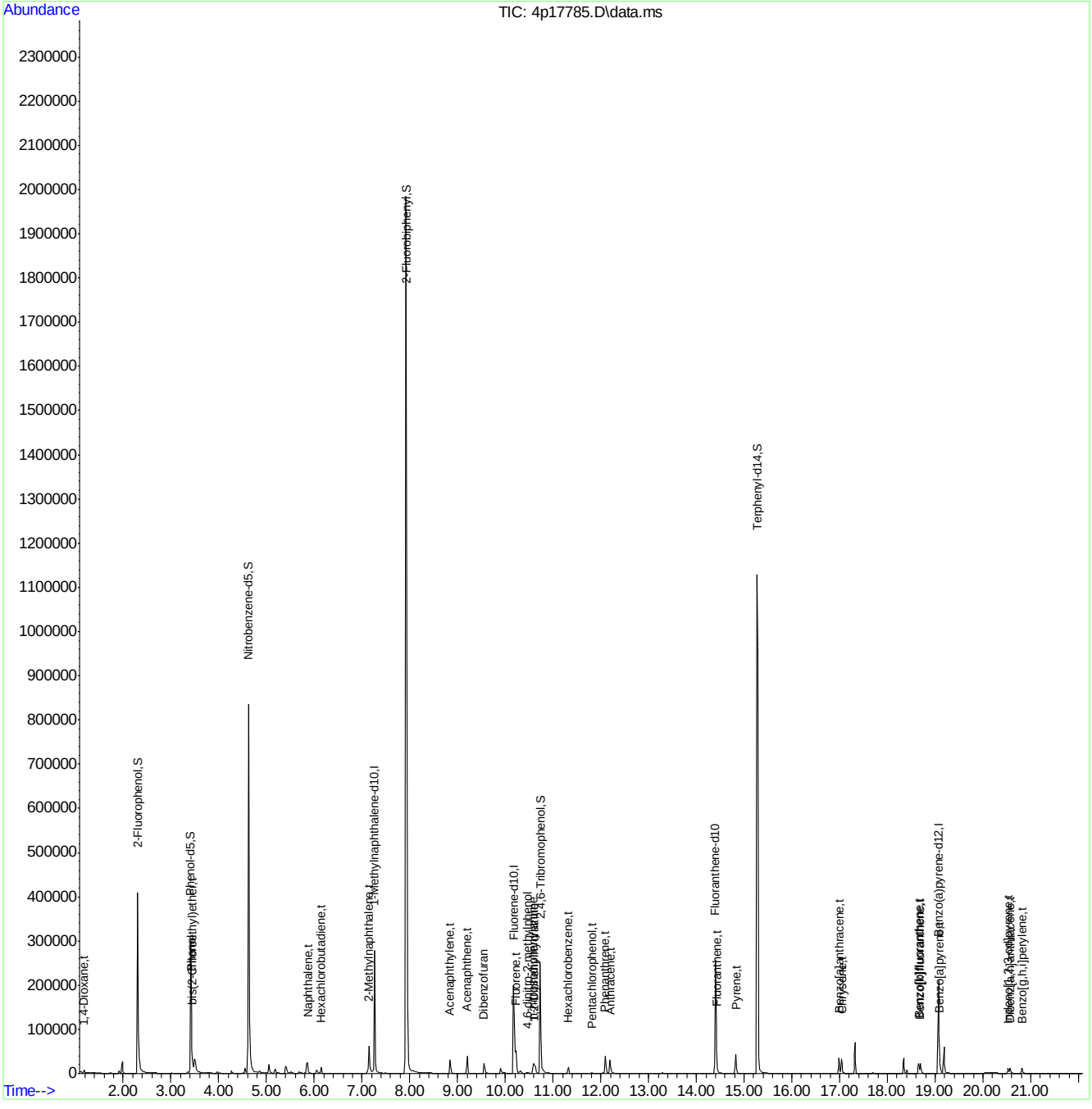
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17785.D
Acq On : 14 Jul 2016 12:47 am
Operator : juliusj
Sample : op95323a-bs12
Misc : op95323a,e4p946,1000
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 14 17:34:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 17:30:45 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66744.D
Acq On : 9 Jul 2016 2:25 pm
Operator : ashleyd
Sample : op95328a-ms
Misc : op95328a,e4m3003,500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 12 14:25:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.643	152	31493	4.00	ppm		#-0.05
12) Fluorene-d10	12.636	176	53755	4.00	ppm		-0.02
22) Fluoranthene-d10	16.826	212	92329	4.00	ppm		-0.02
28) Benzo(a)pyrene-d12	21.410	264	75048	4.00	ppm		-0.04
35) 1-Methylnaphthalene-d10a	9.643	152	31493	4.00	ppm		#-0.05
38) Fluorene-d10a	12.636	176	53755	4.00	ppm		-0.02
System Monitoring Compounds							
2) 2-Fluorophenol	4.059	112	168651	33.61	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 67.22%#				
3) Phenol-d5	5.470	99	221393	27.98	ppm		0.04
Spiked Amount 50.000			Recovery = 55.96%				
6) Nitrobenzene-d5	6.860	82	313539	44.54	ppm		-0.04
Spiked Amount 50.000			Recovery = 89.08%				
11) 2-Fluorobiphenyl	10.311	172	626073	49.39	ppm		-0.02
Spiked Amount 50.000			Recovery = 98.78%				
17) 2,4,6-Tribromophenol	13.185	330	103319	41.24	ppm		-0.02
Spiked Amount 50.000			Recovery = 82.48%				
25) Terphenyl-d14	17.617	244	627677	48.14	ppm		-0.03
Spiked Amount 50.000			Recovery = 96.28%				
Target Compounds							Qvalue
4) Phenol	5.497	94	31173	3.64	ppm		88
5) bis(2-Chloroethyl)ether	5.511	93	6058	1.00	ppm		81
7) Naphthalene	8.191	128	22477	1.02	ppm		98
8) Hexachlorobutadiene	8.454	225	3447	0.92	ppm		82
9) 2-Methylnaphthalene	9.524	142	9461	0.91	ppm	#	52
10) Hexachlorocyclopentadiene	9.858	237	405	0.85	ppm		77
13) Acenaphthylene	11.290	152	14891	1.05	ppm		95
14) Acenaphthene	11.631	153	13647	1.54	ppm		98
15) Dibenzofuran	12.008	168	19339	1.34	ppm		100
16) Fluorene	12.684	166	14217	0.89	ppm		94
18) Hexachlorobenzene	13.776	284	4886	0.92	ppm		87
19) Pentachlorophenol	14.247	266	8037	4.11	ppm		87
20) Phenanthrene	14.586	178	21559	1.00	ppm		99
21) Anthracene	14.680	178	22434	1.13	ppm		90
23) Fluoranthene	16.845	202	25171	0.93	ppm		97
24) Pyrene	17.241	202	26289	1.00	ppm		96
26) Benzo[a]anthracene	19.330	228	21545	0.94	ppm	#	90
27) Chrysene	19.387	228	19371	0.82	ppm		91
29) Benzo[b]fluoranthene	20.997	252	18511	0.71	ppm		96
30) Benzo[k]fluoranthene	21.038	252	19433	0.77	ppm		98
31) Benzo[a]pyrene	21.451	252	17264	0.73	ppm		94
32) Indeno[1,2,3-cd]pyrene	22.966	276	19227	0.70	ppm		91
33) Dibenz[a,h]anthracene	23.007	278	15620	0.68	ppm		95
34) Benzo[g,h,i]perylene	23.351	276	16316	0.68	ppm		98
36) 1,4-Dioxane	2.205	88	1549	0.70	ppm	#	10
39) 4,6-dinitro-2-methylph...	12.899	198	12686	4.92	ppm		92
40) 1,2-Diphenylhydrazine	13.042	77	14216	0.96	ppm		99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66744.D
Acq On : 9 Jul 2016 2:25 pm
Operator : ashleyd
Sample : op95328a-ms
Misc : op95328a,e4m3003,500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 12 14:25:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) n-nitrosodiphenylamine	13.018	169	11655	1.11	ppm #	62

(#) = qualifier out of range (m) = manual integration (+) = signals summed

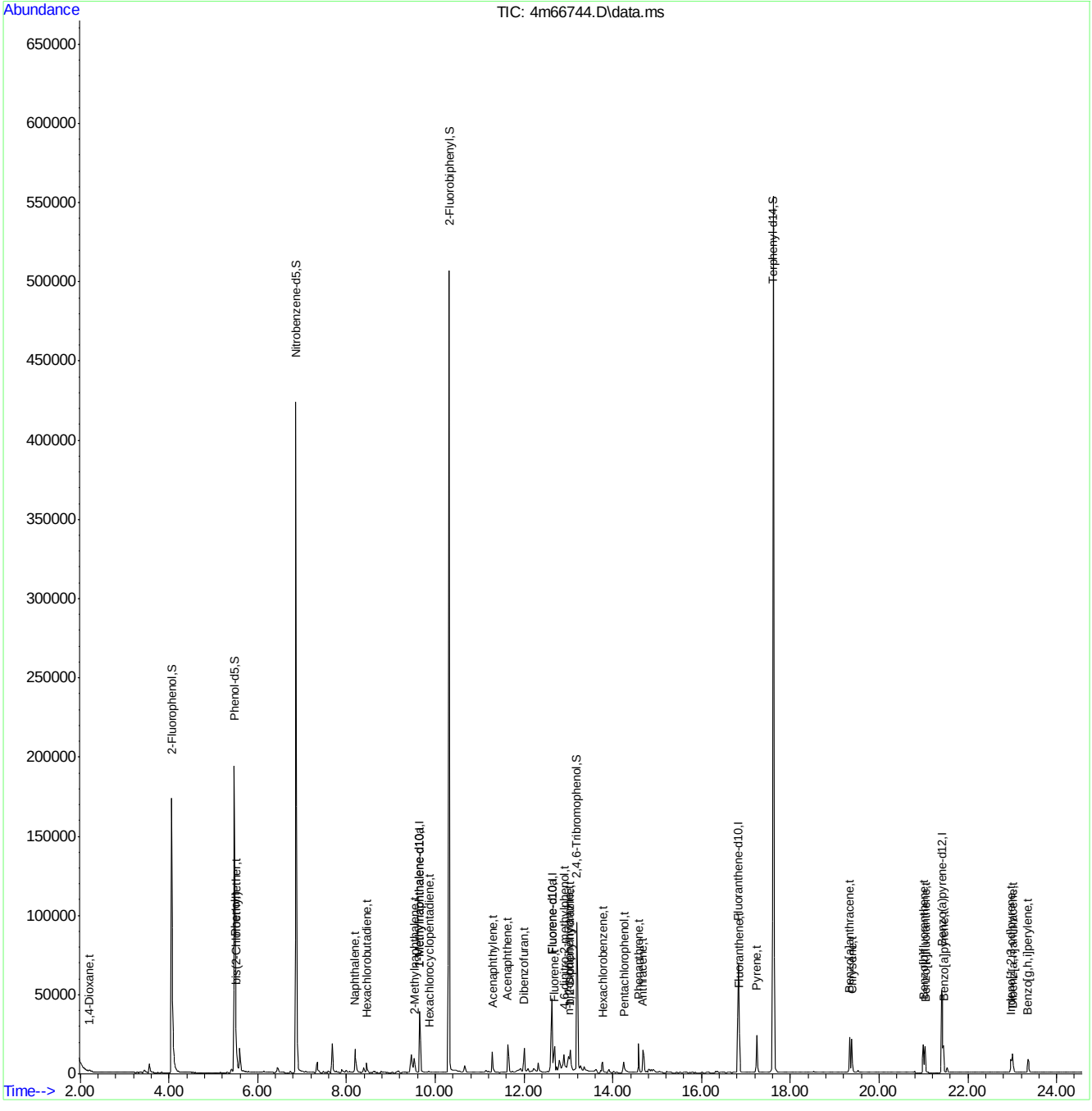
7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66744.D
Acq On : 9 Jul 2016 2:25 pm
Operator : ashleyd
Sample : op95328a-ms
Misc : op95328a,e4m3003,500
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 12 14:25:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66745.D
Acq On : 9 Jul 2016 2:55 pm
Operator : ashleyd
Sample : op95328a-msd
Misc : op95328a,e4m3003,500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 14:25:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.643	152	34773	4.00	ppm	#-0.05
12) Fluorene-d10	12.636	176	60241	4.00	ppm	-0.02
22) Fluoranthene-d10	16.826	212	103799	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.410	264	84960	4.00	ppm	-0.04
35) 1-Methylnaphthalene-d10a	9.643	152	34773	4.00	ppm	#-0.05
38) Fluorene-d10a	12.636	176	60241	4.00	ppm	-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	4.059	112	177462	32.03	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 64.06%#			
3) Phenol-d5	5.470	99	236997	27.13	ppm	0.04
Spiked Amount 50.000			Recovery = 54.26%			
6) Nitrobenzene-d5	6.860	82	325490	41.88	ppm	-0.04
Spiked Amount 50.000			Recovery = 83.76%			
11) 2-Fluorobiphenyl	10.311	172	652104	46.59	ppm	-0.02
Spiked Amount 50.000			Recovery = 93.18%			
17) 2,4,6-Tribromophenol	13.185	330	107443	38.27	ppm	-0.02
Spiked Amount 50.000			Recovery = 76.54%			
25) Terphenyl-d14	17.617	244	626380	42.73	ppm	-0.03
Spiked Amount 50.000			Recovery = 85.46%			
Target Compounds						Qvalue
4) Phenol	5.497	94	31924	3.38	ppm	90
5) bis(2-Chloroethyl)ether	5.511	93	6316	0.95	ppm	83
7) Naphthalene	8.191	128	22740	0.94	ppm	99
8) Hexachlorobutadiene	8.454	225	3534	0.85	ppm	81
9) 2-Methylnaphthalene	9.524	142	9872	0.86	ppm #	54
10) Hexachlorocyclopentadiene	9.858	237	482	0.88	ppm	80
13) Acenaphthylene	11.290	152	15824	0.99	ppm	95
14) Acenaphthene	11.631	153	14614	1.48	ppm	97
15) Dibenzofuran	12.008	168	20436	1.27	ppm	100
16) Fluorene	12.684	166	15078	0.85	ppm	95
18) Hexachlorobenzene	13.776	284	5204	0.87	ppm	90
19) Pentachlorophenol	14.247	266	8805	4.01	ppm	84
20) Phenanthrene	14.586	178	22735	0.94	ppm	98
21) Anthracene	14.680	178	24108	1.09	ppm	91
23) Fluoranthene	16.845	202	27494	0.91	ppm	97
24) Pyrene	17.241	202	29103	0.98	ppm	96
26) Benzo[a]anthracene	19.330	228	23652	0.92	ppm #	90
27) Chrysene	19.387	228	21419	0.80	ppm	92
29) Benzo[b]fluoranthene	20.997	252	21453	0.73	ppm	96
30) Benzo[k]fluoranthene	21.038	252	21787	0.76	ppm	98
31) Benzo[a]pyrene	21.451	252	19679	0.74	ppm	94
32) Indeno[1,2,3-cd]pyrene	22.966	276	23202	0.74	ppm	91
33) Dibenz[a,h]anthracene	23.007	278	18529	0.72	ppm	95
34) Benzo[g,h,i]perylene	23.351	276	19952	0.74	ppm	98
36) 1,4-Dioxane	2.205	88	2196	0.92	ppm #	5
39) 4,6-dinitro-2-methylph...	12.899	198	13644	4.74	ppm	87
40) 1,2-Diphenylhydrazine	13.042	77	14981	0.90	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66745.D
Acq On : 9 Jul 2016 2:55 pm
Operator : ashleyd
Sample : op95328a-msd
Misc : op95328a,e4m3003,500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 14:25:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) n-nitrosodiphenylamine	12.994	169	12529	1.06	ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.2

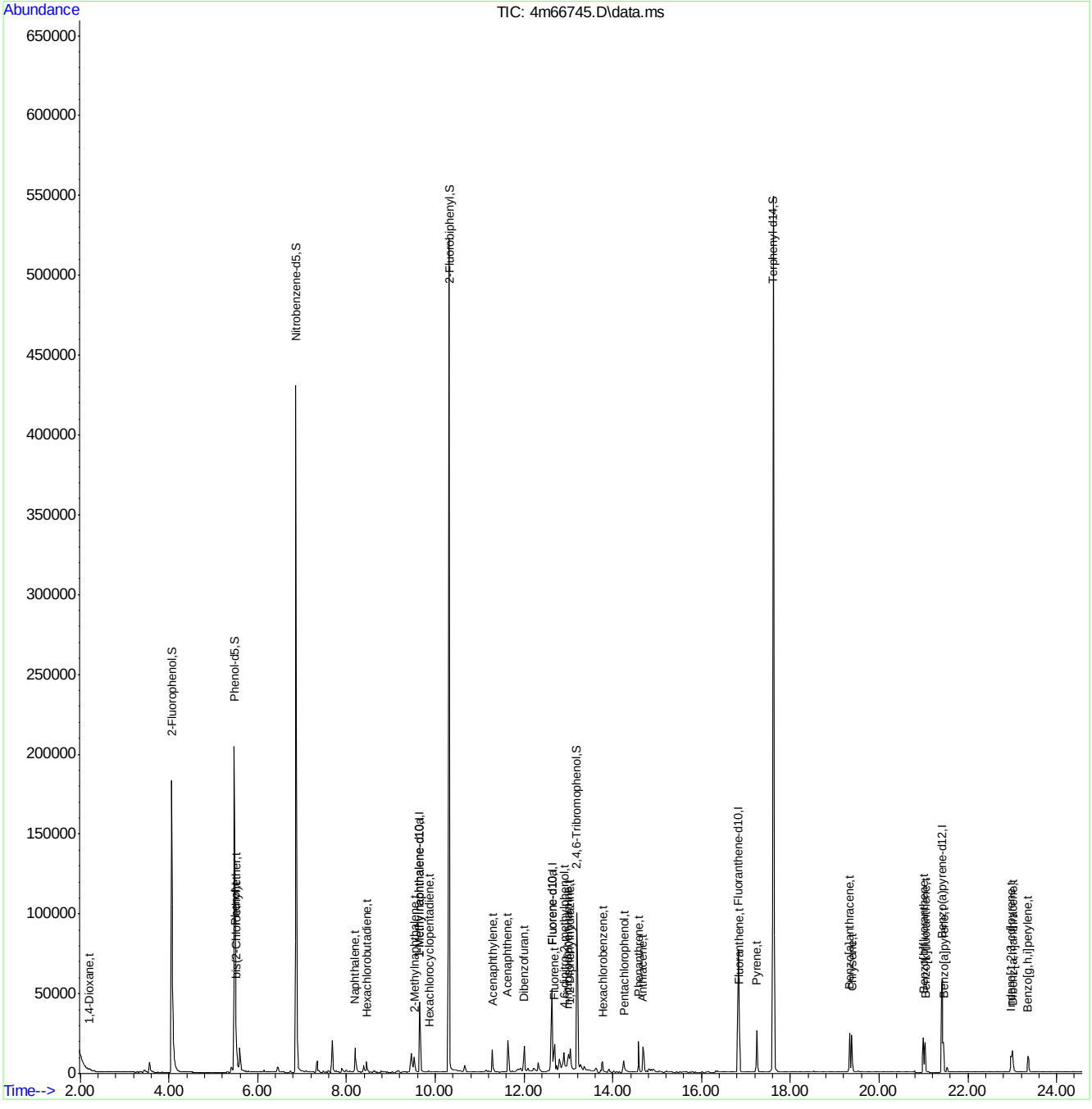
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66745.D
Acq On : 9 Jul 2016 2:55 pm
Operator : ashleyd
Sample : op95328a-msd
Misc : op95328a,e4m3003,500
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 14:25:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17786.D
Acq On : 14 Jul 2016 1:15 am
Operator : juliusj
Sample : op95323a-ms
Misc : op95323a,e4p946,475
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 14 17:34:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 17:30:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	7.258	150	173512	4.00	ppm		0.00
13) Fluorene-d10	10.171	176	192811	4.00	ppm		0.00
23) Fluoranthene-d10	14.395	212	311496	4.00	ppm		0.00
33) Benzo(a)pyrene-d12	19.068	264	205061	4.00	ppm		0.02
System Monitoring Compounds							
3) 2-Fluorophenol	2.307	112	514705	21.66	ppm		-0.18
Spiked Amount 50.000			Recovery = 43.32%				
4) Phenol-d5	3.410	99	779651	19.42	ppm		-0.10
Spiked Amount 50.000			Recovery = 38.84%				
7) Nitrobenzene-d5	4.616	82	996001	34.00	ppm		-0.12
Spiked Amount 50.000			Recovery = 68.00%				
14) 2-Fluorobiphenyl	7.922	172	1941273	37.50	ppm		-0.08
Spiked Amount 50.000			Recovery = 75.00%				
22) 2,4,6-Tribromophenol	10.729	330	238410	44.75	ppm		0.06
Spiked Amount 50.000			Recovery = 89.50%				
30) Terphenyl-d14	15.290	244	1609197	41.23	ppm		0.02
Spiked Amount 50.000			Recovery = 82.46%				
Target Compounds							Qvalue
2) 1,4-Dioxane	1.181	88	27062	2.01	ppm		77
5) Phenol	3.427	94	96566	2.16	ppm	#	89
6) bis(2-Chloroethyl)ether	3.444	93	20851	0.61	ppm	#	65
8) Naphthalene	5.859	128	55780	0.49	ppm		93
9) Hexachlorobutadiene	6.145	225	10511	0.54	ppm		87
10) 2-Methylnaphthalene	7.143	141	38577	0.63	ppm	#	10
15) Acenaphthylene	8.839	152	46881	0.63	ppm		99
16) Acenaphthene	9.205	153	36376	0.90	ppm		88
17) Dibenzofuran	9.572	168	47535	0.68	ppm		74
18) Fluorene	10.221	166	44241	0.89	ppm	#	66
19) 4,6-dinitro-2-methylph...	10.469	198	4628	1.74	ppm		96
20) n-nitrosodiphenylamine	10.582	169	24880	0.85	ppm		97
21) 1,2-Diphenylhydrazine	10.624	77	34440	0.69	ppm	#	70
24) Hexachlorobenzene	11.314	284	12827	0.70	ppm		86
25) Pentachlorophenol	11.813	266	4624	0.79	ppm		92
26) Phenanthrene	12.088	178	59242	0.70	ppm		96
27) Anthracene	12.192	178	54452	0.66	ppm		98
28) Fluoranthene	14.429	202	65100	0.67	ppm		98
29) Pyrene	14.825	202	64640	0.72	ppm		97
31) Benzo[a]anthracene	16.984	228	44620	0.70	ppm		96
32) Chrysene	17.042	228	54657	0.71	ppm		96
34) Benzo[b]fluoranthene	18.654	252	44129	0.61	ppm		97
35) Benzo[k]fluoranthene	18.689	252	41561	0.66	ppm		92
36) Benzo[a]pyrene	19.091	252	40503	0.62	ppm		95
37) Indeno[1,2,3-cd]pyrene	20.522	276	39684	0.54	ppm		97
38) Dibenz[a,h]anthracene	20.570	278	31355	0.53	ppm		72
39) Benzo[g,h,i]perylene	20.810	276	35162	0.53	ppm		98

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17786.D
Acq On : 14 Jul 2016 1:15 am
Operator : juliusj
Sample : op95323a-ms
Misc : op95323a,e4p946,475
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 14 17:34:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 17:30:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

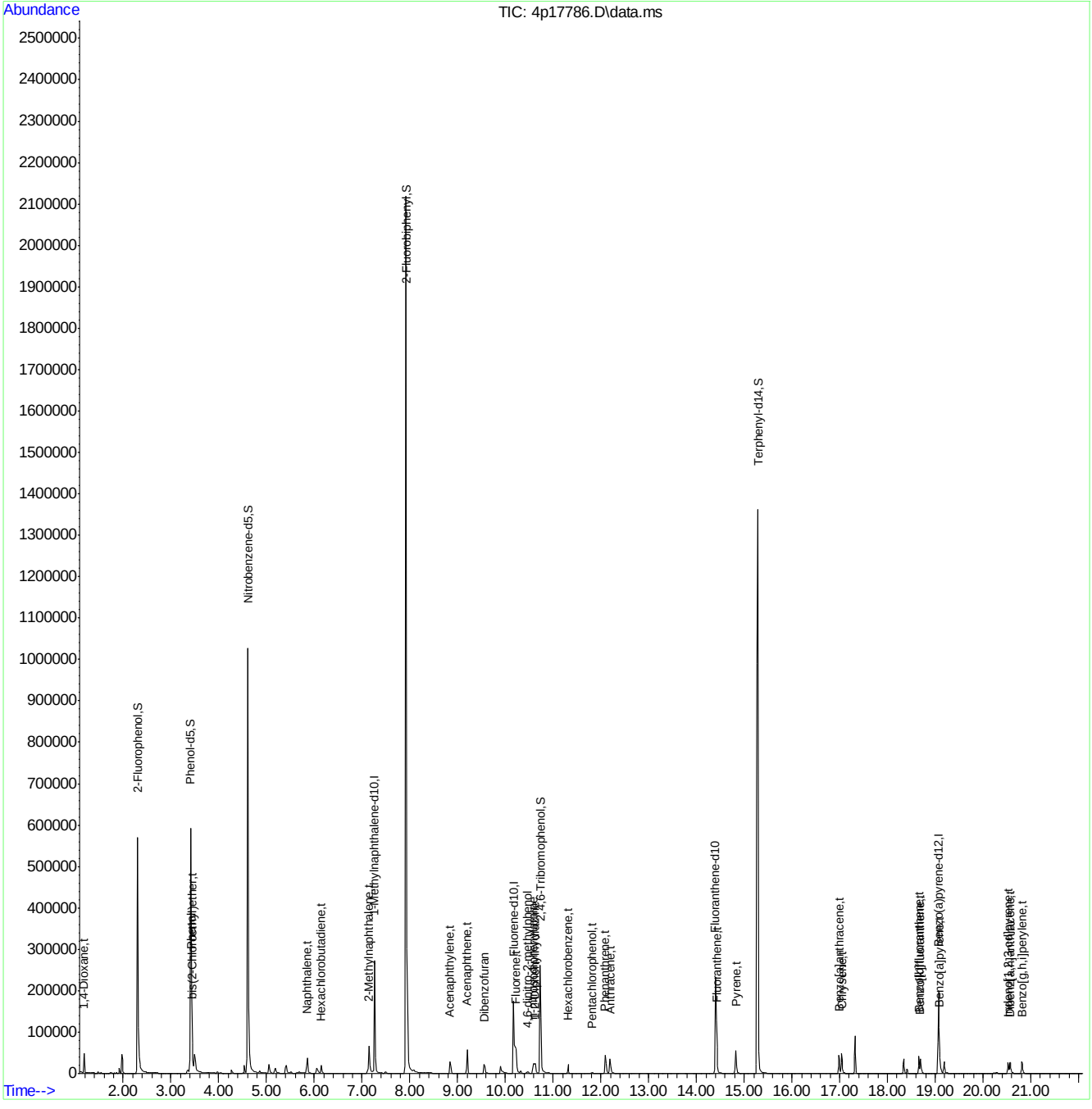
7.4.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17786.D
Acq On : 14 Jul 2016 1:15 am
Operator : juliusj
Sample : op95323a-ms
Misc : op95323a,e4p946,475
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 14 17:34:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 17:30:45 2016
Response via : Initial Calibration



M4P887SIM.M Thu Jul 14 17:34:20 2016 Page: 3

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17787.D
Acq On : 14 Jul 2016 1:43 am
Operator : juliusj
Sample : op95323a-msd
Misc : op95323a,e4p946,475
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 14 17:34:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 17:30:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	7.258	150	172774	4.00	ppm		0.00
13) Fluorene-d10	10.172	176	188911	4.00	ppm		0.00
23) Fluoranthene-d10	14.395	212	301430	4.00	ppm		0.00
33) Benzo(a)pyrene-d12	19.068	264	201442	4.00	ppm		0.02
System Monitoring Compounds							
3) 2-Fluorophenol	2.308	112	542835	22.94	ppm		-0.18
Spiked Amount 50.000			Recovery = 45.88%				
4) Phenol-d5	3.410	99	806661	20.18	ppm		-0.10
Spiked Amount 50.000			Recovery = 40.36%				
7) Nitrobenzene-d5	4.617	82	1036029	35.52	ppm		-0.12
Spiked Amount 50.000			Recovery = 71.04%				
14) 2-Fluorobiphenyl	7.922	172	1960938	38.66	ppm		-0.08
Spiked Amount 50.000			Recovery = 77.32%				
22) 2,4,6-Tribromophenol	10.729	330	230075	44.08	ppm		0.06
Spiked Amount 50.000			Recovery = 88.16%				
30) Terphenyl-d14	15.290	244	1505156	39.85	ppm		0.02
Spiked Amount 50.000			Recovery = 79.70%				
Target Compounds							Qvalue
2) 1,4-Dioxane	1.181	88	26687	1.99	ppm		77
5) Phenol	3.427	94	103058	2.32	ppm	#	81
6) bis(2-Chloroethyl)ether	3.445	93	17447	0.51	ppm	#	48
8) Naphthalene	5.859	128	57146	0.50	ppm		93
9) Hexachlorobutadiene	6.146	225	11132	0.57	ppm		87
10) 2-Methylnaphthalene	7.143	141	40564	0.67	ppm	#	21
12) Hexachlorocyclopentadiene	7.487	237	2091	0.07	ppm		80
15) Acenaphthylene	8.839	152	47704	0.65	ppm		99
16) Acenaphthene	9.206	153	36464	0.92	ppm		89
17) Dibenzofuran	9.572	168	47430	0.69	ppm		74
18) Fluorene	10.221	166	42492	0.87	ppm	#	65
19) 4,6-dinitro-2-methylph...	10.469	198	3068	1.43	ppm	#	32
20) n-nitrosodiphenylamine	10.582	169	24495	0.85	ppm		99
21) 1,2-Diphenylhydrazine	10.624	77	33421	0.68	ppm	#	69
24) Hexachlorobenzene	11.314	284	12557	0.71	ppm		85
25) Pentachlorophenol	11.813	266	3347	0.62	ppm		92
26) Phenanthrene	12.089	178	57689	0.71	ppm		97
27) Anthracene	12.192	178	53671	0.68	ppm		98
28) Fluoranthene	14.429	202	64792	0.69	ppm		97
29) Pyrene	14.825	202	63678	0.73	ppm		97
31) Benzo[a]anthracene	16.985	228	43005	0.70	ppm		96
32) Chrysene	17.042	228	53178	0.71	ppm		97
34) Benzo[b]fluoranthene	18.654	252	42625	0.60	ppm		95
35) Benzo[k]fluoranthene	18.689	252	40916	0.66	ppm		92
36) Benzo[a]pyrene	19.091	252	38869	0.60	ppm		96
37) Indeno[1,2,3-cd]pyrene	20.522	276	36671	0.51	ppm		96
38) Dibenz[a,h]anthracene	20.570	278	29046	0.50	ppm		72
39) Benzo[g,h,i]perylene	20.810	276	31957	0.49	ppm		97

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17787.D
Acq On : 14 Jul 2016 1:43 am
Operator : juliusj
Sample : op95323a-msd
Misc : op95323a,e4p946,475
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 14 17:34:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 17:30:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

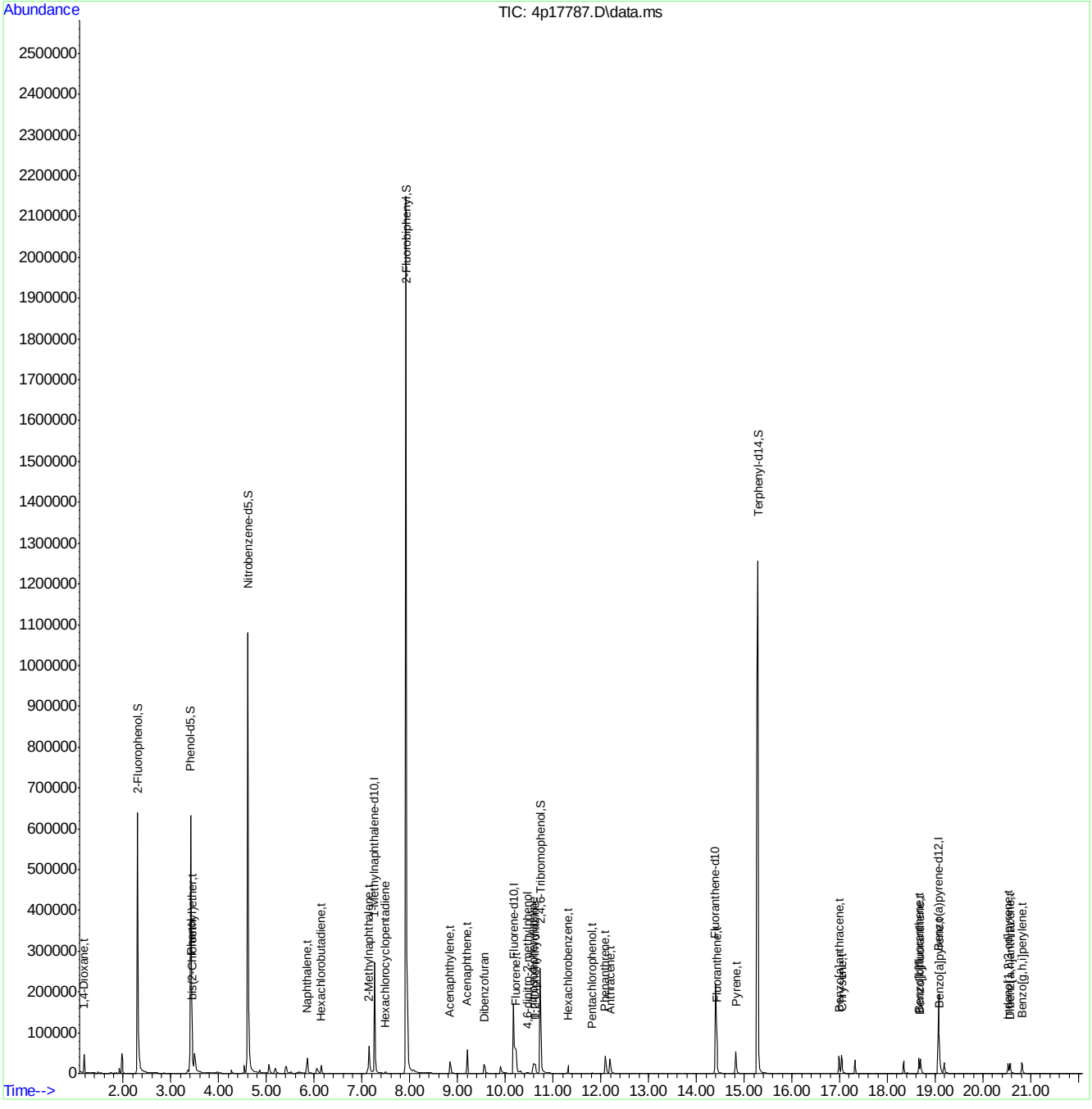
7.4.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17787.D
Acq On : 14 Jul 2016 1:43 am
Operator : juliusj
Sample : op95323a-msd
Misc : op95323a,e4p946,475
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 14 17:34:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 17:30:45 2016
Response via : Initial Calibration

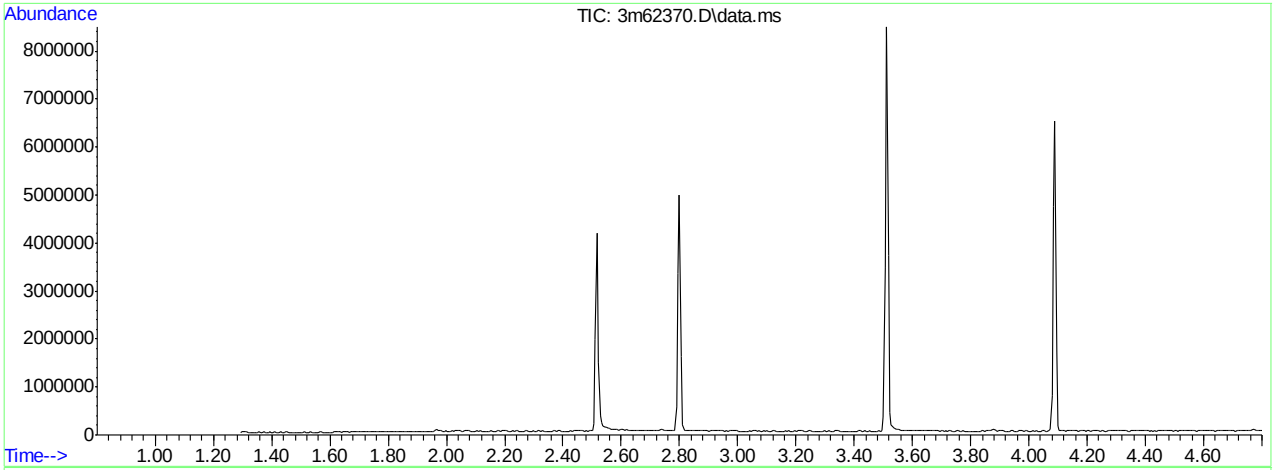


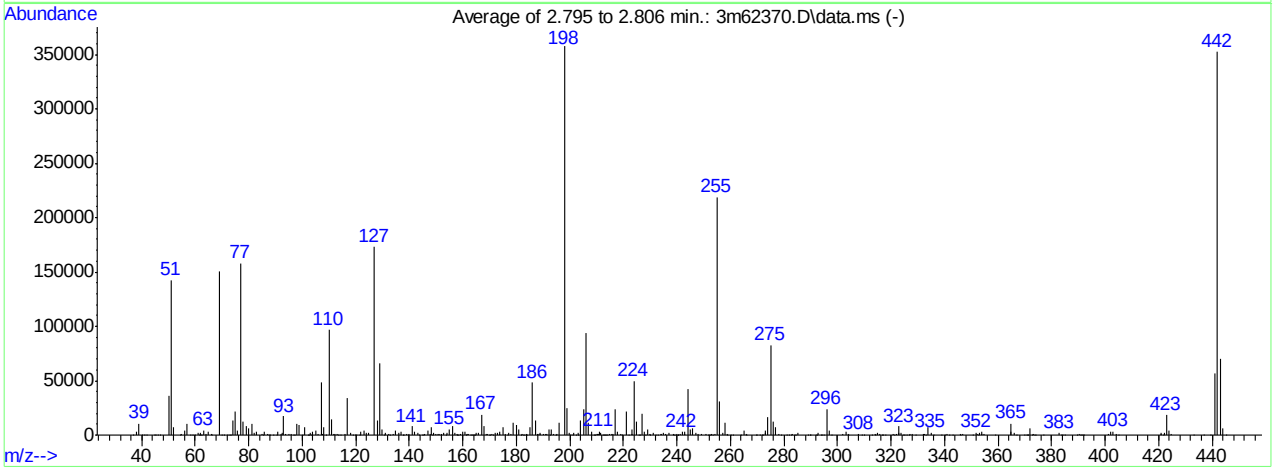
SGS ACCUTEST JC23443

DFTPP

Data File : C:\msdchem\1\DATA\E3M2942\3m62370.D Vial: 1
Acq On : 20 Jun 2016 6:23 pm Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op94419a,e3m2942 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 282, 283, 284; Background Corrected with Scan 277

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.9	142639	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.2	150640	PASS
70	69	0.00	2	0.1	131	PASS
127	198	40	60	48.4	172819	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	357376	PASS
199	198	5	9	6.9	24760	PASS
275	198	10	30	23.2	82808	PASS
365	198	1	100	3.0	10751	PASS
441	443	0.10	100	81.1	56707	PASS
442	198	40	100	98.5	352192	PASS
443	442	17	23	19.8	69907	PASS

3m62370.D DFTPP3M.M Tue Jun 21 11:56:21 2016 RPT1

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	81	50.95	142639	61.80	123	72.00	164
38.05	2922	52.00	7282	62.05	2203	72.90	318
39.05	10468	54.30	172	62.30	126	73.20	264
39.95	80	54.85	1188	63.00	4616	74.10	13505
41.00	125	56.00	4341	64.15	978	74.95	21173
41.95	215	57.00	9978	64.95	3519	75.95	4041
44.90	34	58.00	490	65.95	893	77.00	157806
45.10	350	59.00	75	66.30	118	78.00	12745
45.80	155	60.00	273	69.00	150640	79.00	8110
46.95	282	61.05	1733	69.95	131	80.00	6362
50.00	36500	61.30	205	70.80	217	81.00	10543

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.95	2382	91.95	852	101.00	6995	108.80	180
83.05	3250	92.30	1594	101.95	371	110.00	96445
84.95	1052	92.95	17258	102.70	169	111.00	14291
85.40	450	93.90	826	103.10	1592	111.85	799
86.00	2956	94.95	823	103.40	230	112.10	1251
87.00	635	96.00	826	103.95	3589	113.05	901
87.65	336	96.80	245	105.00	3670	113.60	114
87.95	435	97.20	170	105.75	1045	114.20	134
89.00	214	98.00	10067	107.00	48177	115.90	1394
90.30	76	98.95	9073	107.70	689	117.00	33889
90.90	2732	99.95	15	108.05	7306	117.95	2512

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.05	167	129.95	5599	138.95	725	148.05	7136
119.90	211	130.60	88	140.00	961	148.80	217
120.20	257	131.00	1608	141.05	7966	149.10	1948
121.25	400	132.10	601	141.90	3111	150.10	561
122.00	2792	132.75	457	143.05	2082	150.90	591
122.95	4336	133.95	1189	143.80	445	151.10	711
124.00	2571	134.95	4348	144.70	347	152.00	1233
124.95	2035	136.00	2369	145.20	502	152.90	2618
127.00	172819	137.00	2942	145.85	1117	153.80	286
128.05	13667	137.70	305	146.95	4290	154.10	1957
129.00	66066	137.90	79	147.70	640	155.05	5168

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.10	8110	162.90	210	169.80	187	177.10	2491
157.10	1726	163.10	303	170.00	459	177.85	1074
157.80	730	163.70	88	170.75	846	178.95	11672
158.00	436	164.00	439	171.30	398	180.05	9127
158.20	210	164.75	115	171.90	1708	181.00	5190
158.95	1578	165.05	2525	172.95	1779	181.80	204
160.05	2767	165.95	2407	173.70	639	182.10	587
160.90	3348	167.00	18778	173.95	3084	182.70	380
161.10	278	167.95	8389	175.05	7672	183.10	260
161.60	631	168.95	1056	175.90	1518	183.70	87
162.05	918	169.20	1080	176.70	556	184.00	1025

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.05	7416	192.60	247	201.50	2448	210.05	683
186.00	48421	193.00	5254	202.10	153	210.30	854
187.05	13505	193.90	1480	203.00	2366	210.65	1549
187.90	607	194.60	368	203.20	472	211.05	3549

188.20	790	195.05	977	204.05	13105	211.30	1823
188.90	821	196.05	11875	205.00	24095	212.15	257
189.05	1597	197.95	357376	206.00	93416	212.90	129
189.95	964	198.95	24760	207.00	11298	213.10	150
190.90	685	199.95	1680	208.00	3223	213.40	124
191.25	1360	200.20	167	209.00	483	213.80	101
192.00	4726	200.80	512	209.25	427	214.95	916

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.70	1394	225.00	12558	232.75	352	240.50	159
216.10	637	225.80	277	233.90	583	241.10	1312
216.95	23913	226.20	371	234.10	992	242.05	3028
217.95	2968	227.00	19756	234.95	1813	242.85	2728
219.00	623	227.90	3006	235.95	1256	243.10	563
219.60	337	228.10	382	236.85	1605	244.00	42307
221.00	21331	229.00	4780	238.70	181	244.95	4791
221.85	333	229.90	172	238.85	621	246.00	6683
223.00	5497	230.05	920	239.20	460	247.05	1964
223.20	775	231.00	1729	239.85	662	247.85	674
224.00	49685	231.95	198	240.20	104	249.00	1582

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.85	593	258.70	190	271.75	357	281.85	336
251.90	328	258.95	1528	272.10	256	282.60	104
252.10	193	260.05	255	272.90	1815	283.00	888
252.50	178	260.85	350	273.10	4651	283.75	329
253.10	782	263.90	365	273.90	16215	284.20	204
253.40	181	264.95	4564	275.00	82808	285.05	1855
254.00	719	265.90	365	276.00	11994	289.10	161
255.00	218565	266.10	1406	277.00	7442	289.70	216
256.00	31285	269.60	146	278.00	1153	290.00	289
257.00	2298	269.90	293	279.00	298	291.80	390
258.00	11532	270.90	505	281.00	258	292.20	109

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
292.95	2121	307.90	591	318.00	75	327.05	1322
294.00	131	309.05	376	320.90	632	327.90	1184
294.20	396	309.80	385	321.20	188	329.20	156
294.95	353	312.80	210	322.20	636	332.05	954
296.00	23883	314.00	1059	322.90	2035	332.75	743
296.95	3927	314.20	294	323.05	7794	333.10	463
297.80	323	314.85	1132	323.95	1940	334.00	7000
301.95	577	315.10	2317	324.70	166	334.95	2391
303.05	3200	315.85	1506	325.20	115	336.10	100
303.90	348	316.70	105	325.90	121	338.70	110
304.20	662	317.05	238	326.80	488	340.10	119

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.00	1084	353.80	798	371.20	212	389.65	320
341.85	394	353.95	2689	371.95	5975	390.15	684
342.90	93	354.90	1057	372.80	328	390.70	314
345.80	212	358.80	84	373.05	1402	391.15	438
346.00	1441	364.80	2816	373.50	151	391.75	391
346.90	696	365.00	10751	374.10	201	392.10	177
350.75	364	365.90	1840	376.80	157	401.05	704
351.90	2565	366.90	257	382.95	2052	402.00	2958
352.10	851	369.85	248	383.80	448	403.05	3479
352.50	89	370.80	176	384.15	260	404.00	993
352.95	2361	371.00	447	384.95	183	405.00	151

Average of 2.795 to 2.806 min.: 3m62370.D\data.ms

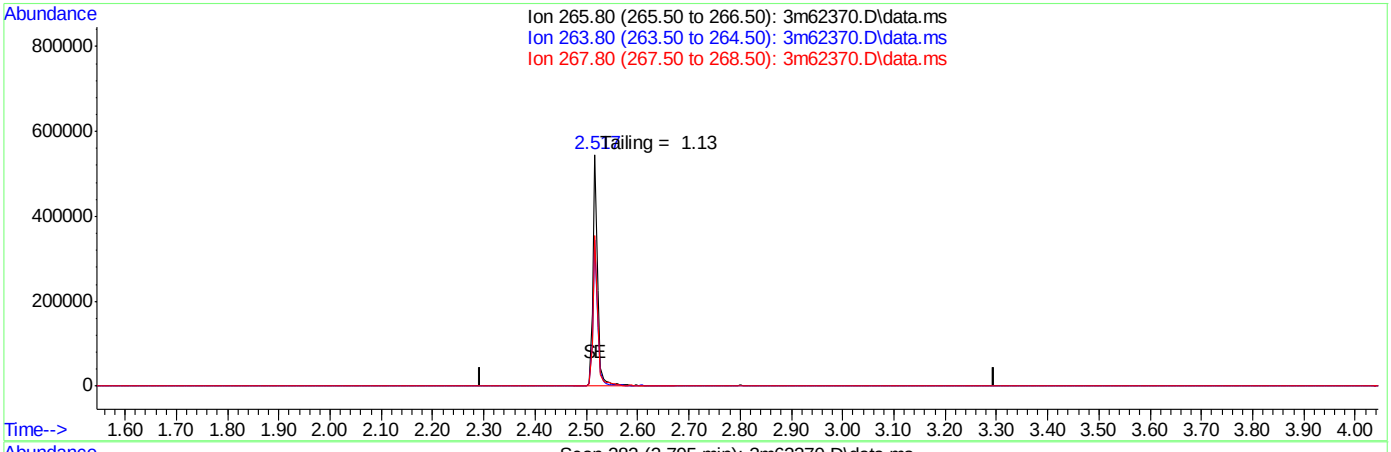
dftpp
Modified:subtracted

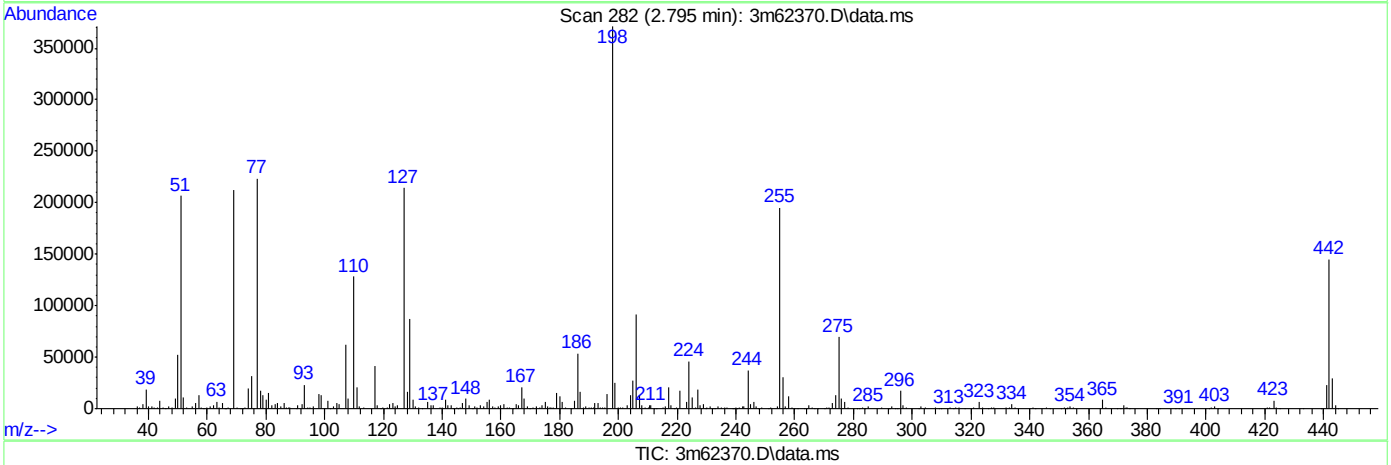
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
420.85	1860	442.00	352192				
421.10	944	443.00	69907				
421.80	317	444.05	6076				
422.05	2008	445.05	531				
423.00	18110						
424.05	3856						
424.90	624						
433.10	106						
436.90	81						
439.20	110						
441.00	56707						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62370.D
Acq On : 20 Jun 2016 6:23 pm
Operator : ashleyd
Sample : dftpp
Misc : op94419a,e3m2942
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 11:56:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.795min 0.00ppb d

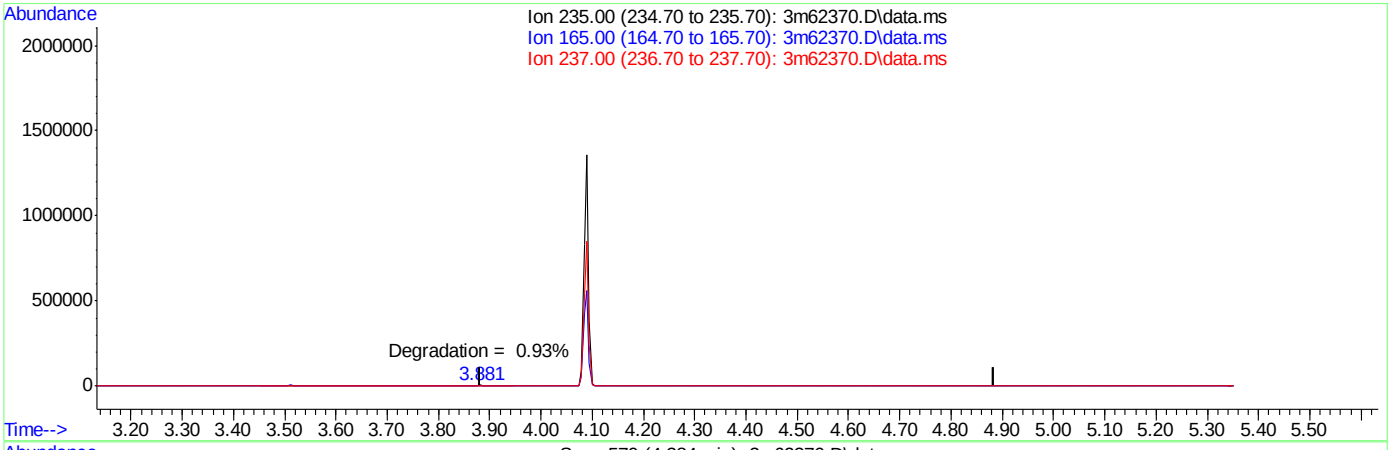
response 0

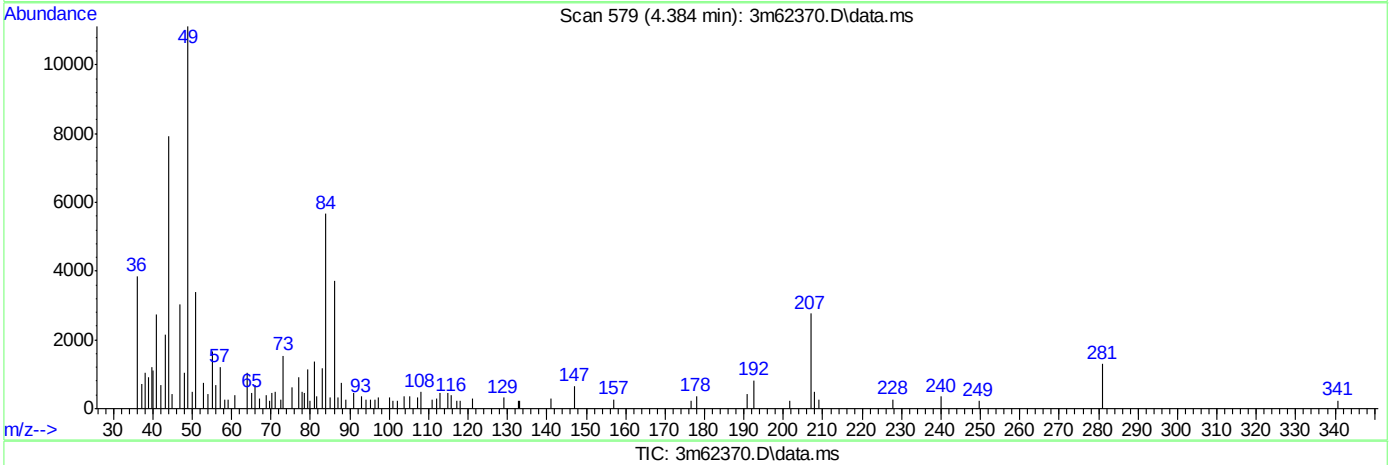
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62370.D
Acq On : 20 Jun 2016 6:23 pm
Operator : ashleyd
Sample : dftpp
Misc : op94419a,e3m2942
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 11:56:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62370.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

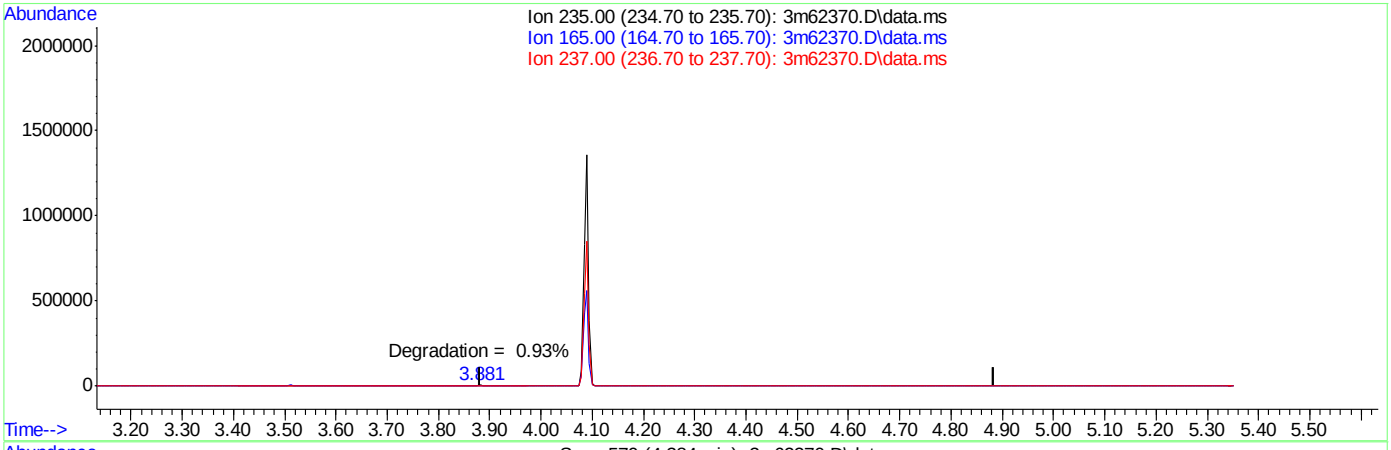
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

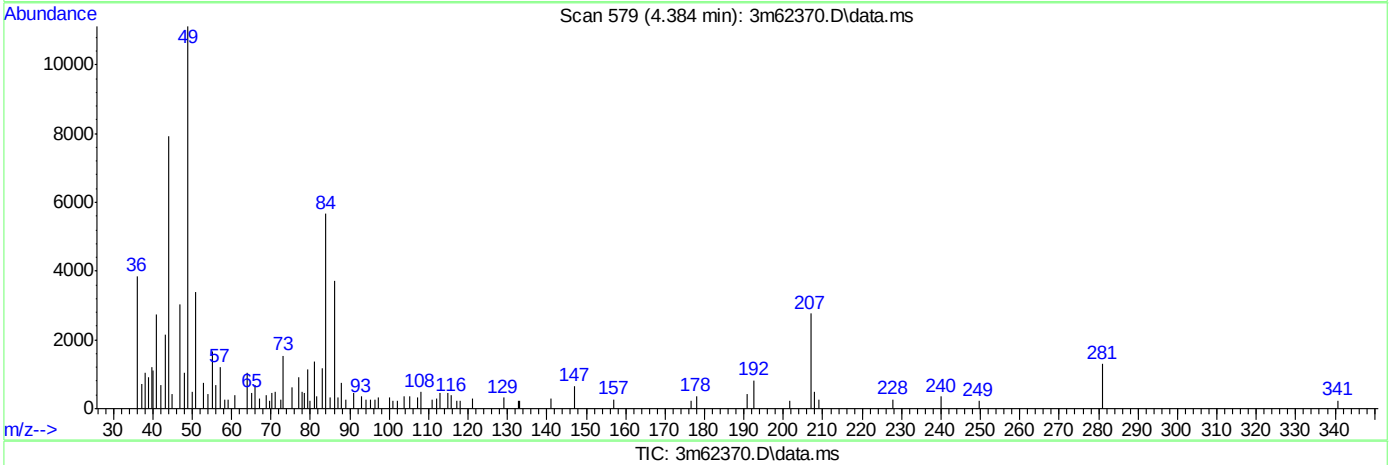
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62370.D
Acq On : 20 Jun 2016 6:23 pm
Operator : ashleyd
Sample : dftpp
Misc : op94419a,e3m2942
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 11:56:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62370.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

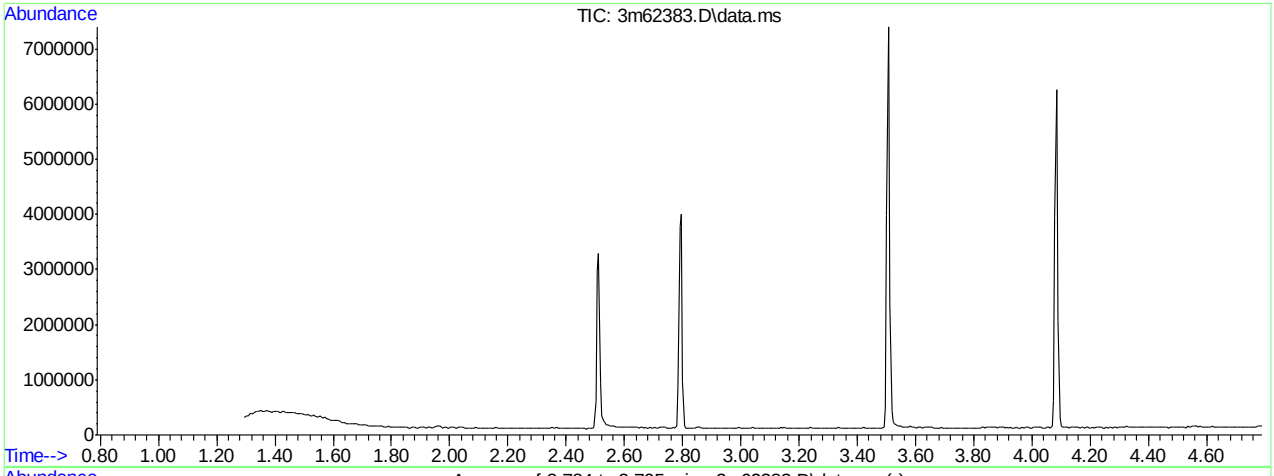
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC23443

DFTPP

Data File : C:\msdchem\1\DATA\E3M2943\3m62383.D Vial: 1
Acq On : 21 Jun 2016 9:06 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op94419a,e3m2943 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um



AutoFind: Scans 280, 281, 282; Background Corrected with Scan 276

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.1	139176	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.7	143977	PASS
70	69	0.00	2	0.6	932	PASS
127	198	40	60	50.3	158565	PASS
197	198	0.00	1	0.6	1950	PASS
198	198	100	100	100.0	315368	PASS
199	198	5	9	6.7	21167	PASS
275	198	10	30	21.7	68458	PASS
365	198	1	100	3.2	9982	PASS
441	443	0.10	100	86.4	40278	PASS
442	198	40	100	81.7	257583	PASS
443	442	17	23	18.1	46645	PASS

3m62383.D DFTPP3M.M Tue Jun 21 12:00:52 2016 RPT1

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	158	50.00	36845	59.00	259	66.10	102
36.80	620	50.95	139176	59.80	160	66.85	100
37.80	732	52.10	6334	60.60	317	68.95	143977
38.05	1836	53.05	661	61.10	1218	70.05	932
39.00	10430	55.00	680	61.95	2060	71.00	770
41.00	224	55.90	3417	63.05	5144	71.40	152
41.95	971	56.90	1778	63.70	91	71.85	470
43.20	1060	57.05	8471	64.05	515	72.80	289
44.00	349	57.90	726	65.10	2154	72.95	983
44.90	163	58.40	198	65.70	111	74.00	13648
47.90	453	58.70	100	65.90	94	75.05	20664

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.10	5702	87.90	97	97.70	426	107.95	6504
77.05	152235	88.90	463	98.00	9895	108.90	599
78.10	10624	90.70	427	98.95	7962	110.00	86011
79.05	8180	90.90	1887	100.05	948	110.95	13153
80.00	6858	91.30	345	100.90	5310	112.00	1441
80.90	9553	91.85	1129	101.90	462	112.85	272
81.80	243	92.10	1225	102.95	2134	114.80	283
82.10	1948	93.00	14841	103.80	1735	115.90	1446
83.00	2239	94.00	1294	104.00	876	117.00	31419
85.00	1107	95.00	446	104.90	3013	117.95	1864
86.95	1944	95.95	697	107.00	45741	118.95	260

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.30	157	130.00	4265	136.95	1850	145.00	326
120.10	1022	130.90	146	138.10	808	145.70	79
120.80	488	131.10	521	138.90	190	146.05	1308
122.00	2800	132.05	373	139.90	352	147.00	3094
123.05	3643	132.80	96	141.05	6687	148.00	8177
123.85	1976	133.30	404	141.80	224	149.05	1334
124.95	1145	133.95	1777	142.05	2273	150.00	570
125.20	748	135.05	4351	142.80	779	151.05	1104
127.00	158565	135.70	293	143.10	824	151.65	1063
128.00	12696	136.00	1705	144.05	722	152.10	286
128.95	54803	136.80	362	144.70	223	152.70	224

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.90	2013	161.95	938	170.40	225	176.15	2028
154.00	2323	162.80	307	170.60	342	176.95	2697
155.00	3003	163.90	182	171.30	323	177.70	287
156.00	7610	164.80	993	171.80	594	178.10	81
157.00	410	165.00	1177	172.10	719	179.00	11220
157.20	623	165.80	2288	172.60	614	180.00	7048
157.95	917	166.95	14095	172.80	505	180.80	479
159.10	1545	167.70	458	173.95	3411	181.00	2937
159.90	2680	168.10	6898	174.80	415	181.90	503
161.05	2909	168.90	194	175.00	5857	182.30	300
161.80	332	169.15	1191	176.00	74	183.15	311

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.90	270	190.60	87	197.95	315368	207.00	8927
184.10	601	190.85	938	199.00	21167	207.80	178
185.00	5439	191.20	454	199.95	1858	207.95	2519
186.00	40353	191.95	2908	200.75	507	208.90	857

186.90	1043	192.90	2125	201.50	2813	209.55	281
187.05	10716	193.10	1882	202.10	207	209.90	632
188.05	1251	193.90	850	202.80	1526	210.30	839
188.80	321	194.90	483	203.00	1508	211.05	2831
189.05	2343	195.20	677	204.05	12403	211.80	451
189.80	79	196.15	9631	205.00	18716	212.00	426
190.20	244	196.80	1950	206.00	74707	213.00	307

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
214.00	124	223.00	4807	232.90	401	241.00	1124
214.85	753	224.00	46842	233.20	113	242.15	1759
215.90	1229	225.00	11356	233.95	1366	243.00	2927
216.95	18685	226.10	900	234.90	1489	244.05	33998
217.80	792	227.00	15932	235.20	94	244.95	4470
218.05	2461	227.95	2529	235.60	309	245.30	274
219.10	368	228.60	173	236.15	637	246.05	5386
219.80	127	228.95	3943	237.05	1258	246.85	1529
221.00	16059	229.90	714	238.05	214	247.10	405
221.90	1656	231.05	1475	239.05	667	248.60	317
222.80	553	231.90	304	240.00	457	249.00	1107

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.10	354	258.95	1855	270.10	631	282.00	212
251.10	423	259.90	297	271.15	401	282.50	103
251.70	140	260.90	265	271.60	400	282.90	711
252.00	341	261.20	219	272.00	410	283.70	85
252.95	656	263.60	338	272.90	5346	284.15	298
253.90	792	263.85	1	274.05	13469	285.05	943
255.00	170349	264.20	432	275.00	68458	286.00	326
256.00	26099	265.05	3502	276.05	9161	289.00	211
256.80	220	267.20	116	276.95	6165	289.75	188
257.10	1778	267.70	274	277.95	1099	291.30	79
258.00	8832	269.60	97	278.70	94	292.20	73

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
292.80	107	303.80	155	317.00	175	329.80	156
293.15	1237	304.00	322	320.60	232	331.80	311
293.95	585	308.05	292	321.15	848	332.10	184
294.95	383	308.90	214	321.80	122	333.10	650
295.95	20889	310.00	436	323.05	7420	334.05	4444
296.80	105	313.00	255	324.05	1502	335.00	1439
297.00	3009	313.90	334	325.10	164	340.10	111
297.90	220	314.20	247	326.85	1102	340.60	202
300.80	132	314.70	1068	327.95	496	340.90	260
302.00	684	315.00	924	328.30	165	341.15	384
303.00	2375	316.00	1435	329.10	109	341.80	174

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
343.10	76	365.80	934	389.75	437	411.50	75
346.00	1359	366.10	318	390.20	157	420.50	82
346.75	335	367.10	103	390.50	142	420.80	712
351.80	120	370.20	95	391.05	336	421.00	1655
352.00	3238	370.80	99	391.50	90	421.95	1459
353.00	1894	371.10	443	392.15	467	423.05	12517
353.95	2127	372.00	1733	400.80	410	424.05	2598
355.15	595	372.20	2160	402.10	1541	424.85	424
359.10	163	372.95	1034	402.60	164	430.80	171
361.20	130	383.00	1589	402.95	2543	437.20	175
364.90	9982	384.20	237	404.05	847	438.70	123

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms

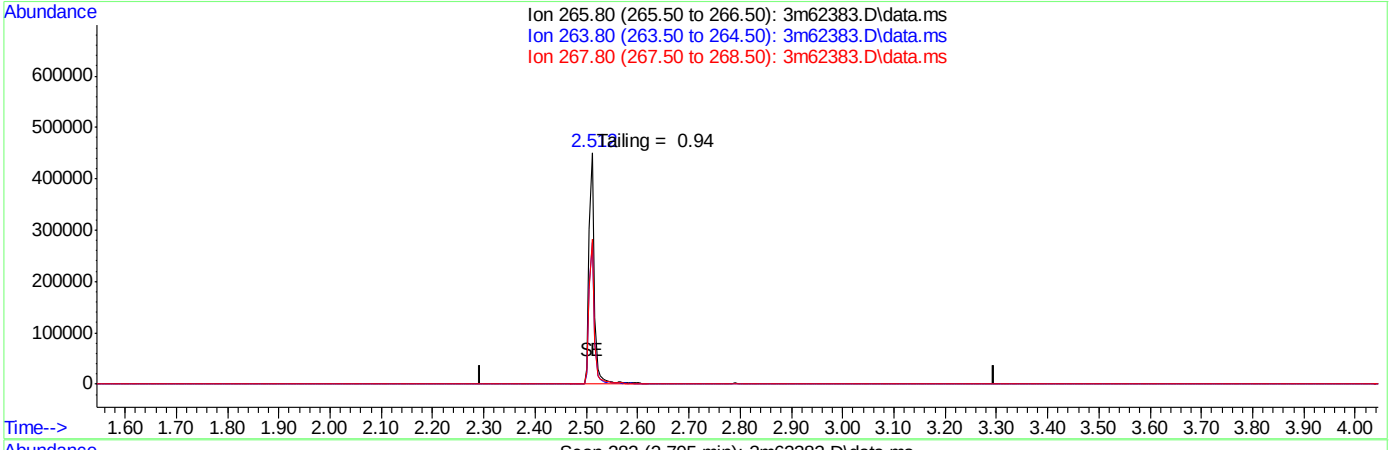
dftpp
Modified:subtracted

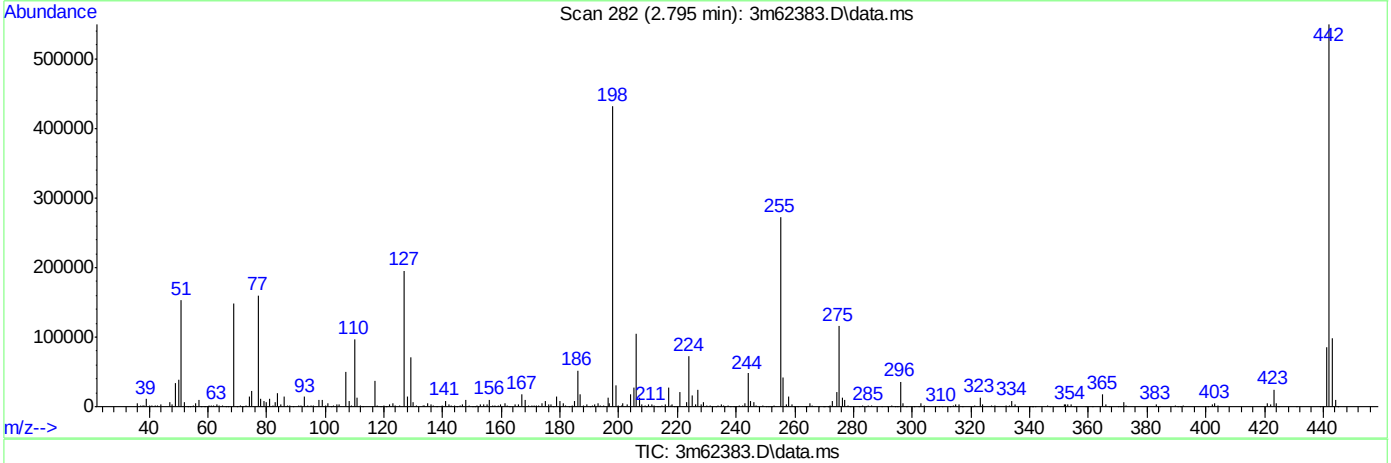
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
440.00	182						
441.00	40278						
442.00	257583						
443.00	46645						
443.90	101						
444.10	5040						
444.80	123						
445.10	286						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62383.D
Acq On : 21 Jun 2016 9:06 am
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 09:10:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





(1) Pentachlorophenol (t)

2.795min 0.00ppb d

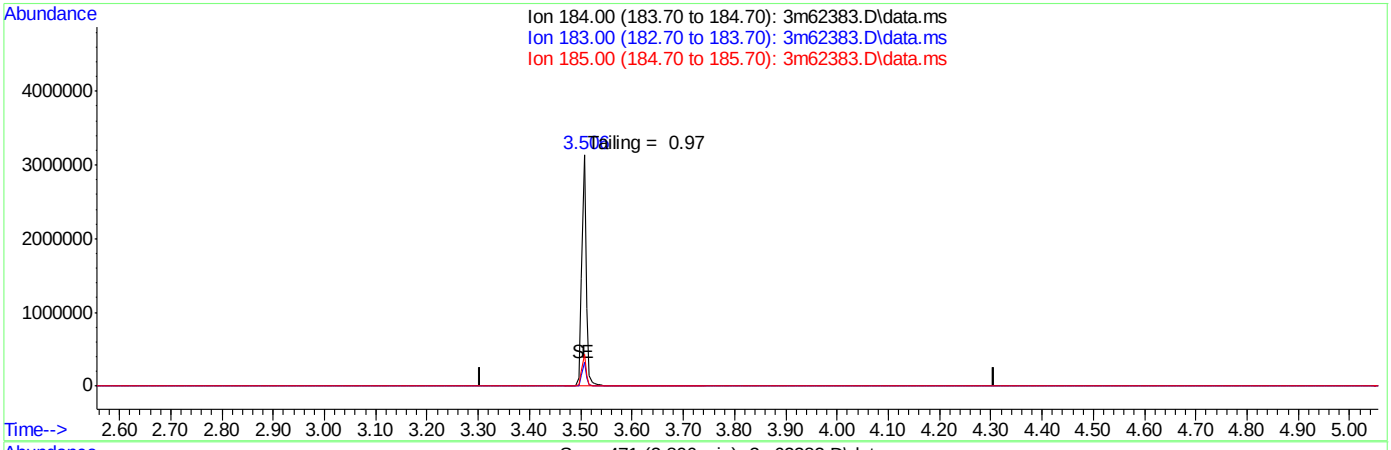
response 0

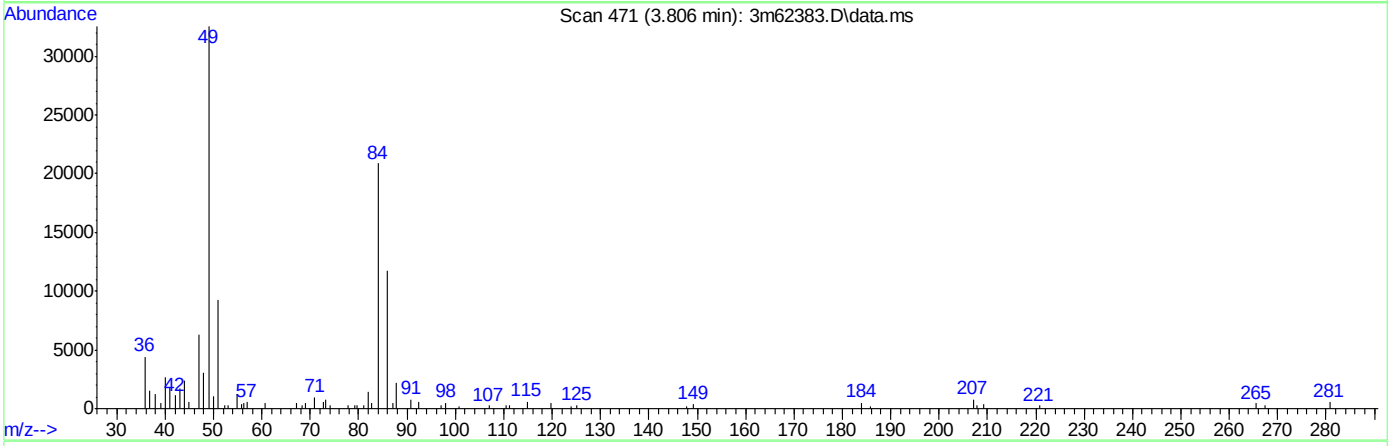
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62383.D
Acq On : 21 Jun 2016 9:06 am
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 09:10:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62383.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

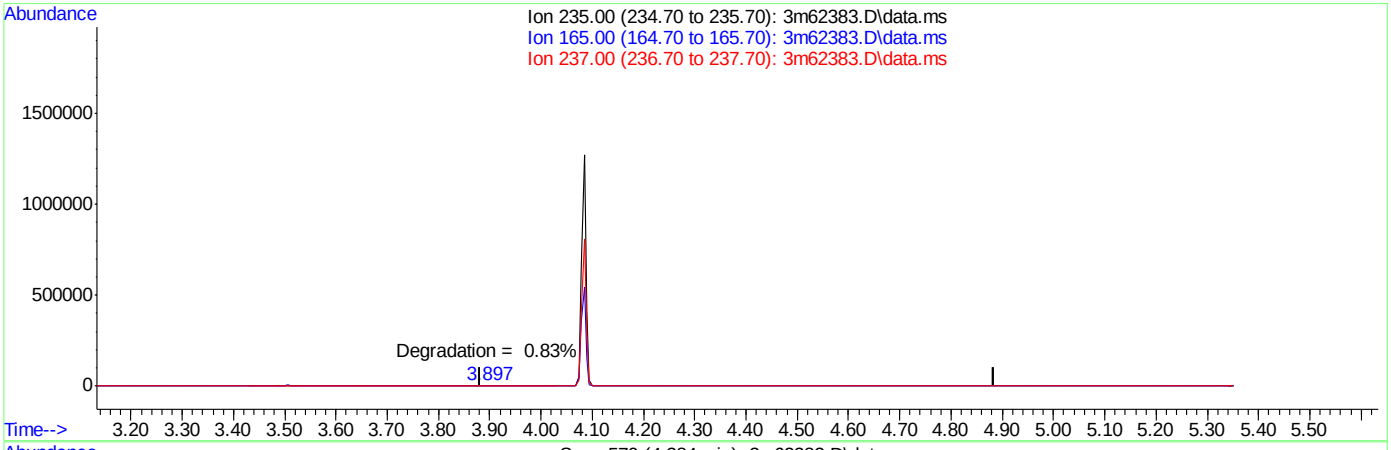
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

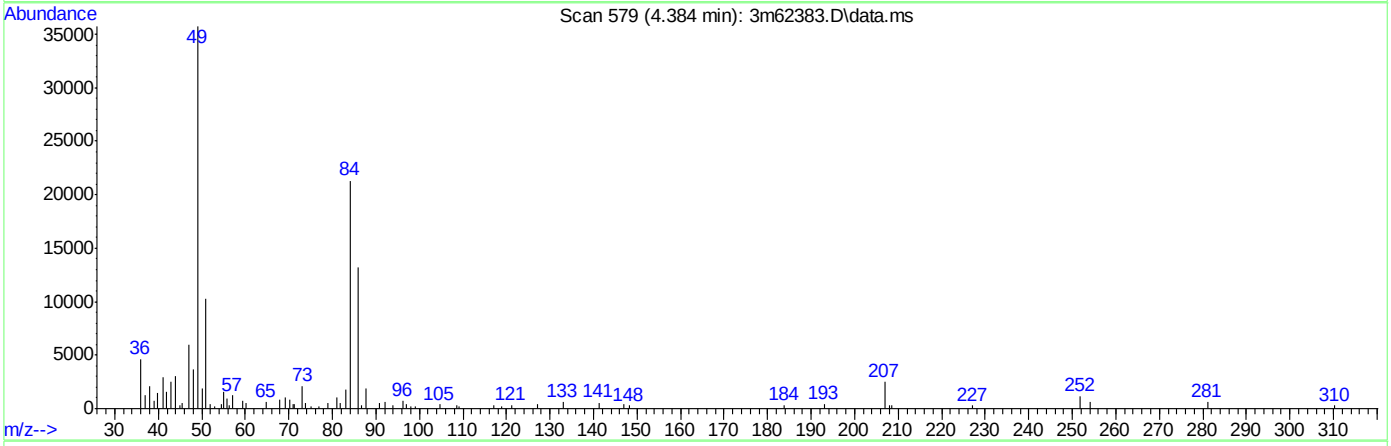
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62383.D
Acq On : 21 Jun 2016 9:06 am
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 09:10:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62383.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

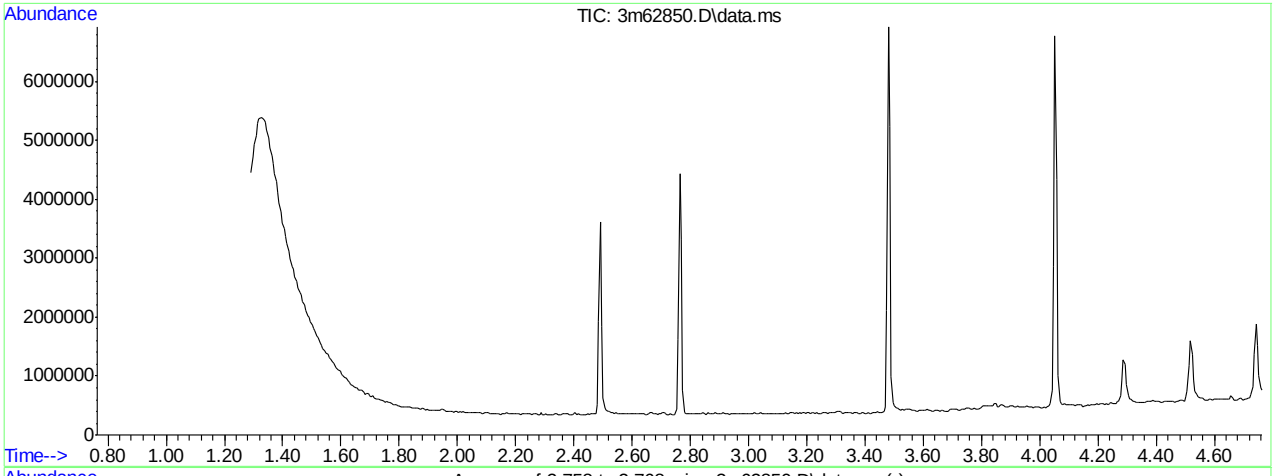
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

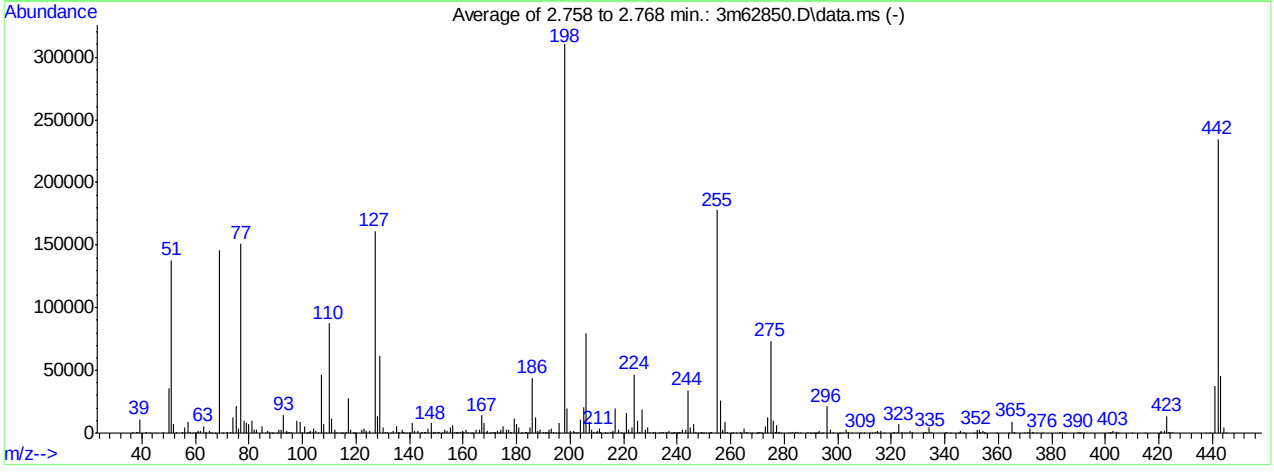
SGS ACCUTEST JC23443

DFTPP

Data File : C:\msdchem\1\DATA\E3M2968\3m62850.D Vial: 1
Acq On : 8 Jul 2016 10:03 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m2968 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M (RTE Integrator)
Title : DFTPP, RXI-5MS 30m x .25mm x .25um





AutoFind: Scans 275, 276, 277; Background Corrected with Scan 271

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.6	138200	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.1	145922	PASS
70	69	0.00	2	0.1	201	PASS
127	198	40	60	52.1	161434	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	310104	PASS
199	198	5	9	6.3	19548	PASS
275	198	10	30	23.7	73565	PASS
365	198	1	100	3.0	9333	PASS
441	443	0.10	100	83.8	37967	PASS
442	198	40	100	75.6	234368	PASS
443	442	17	23	19.3	45329	PASS

3m62850.D DFTPP3M.M Sun Jul 10 08:46:11 2016 RPT1

Average of 2.758 to 2.768 min.: 3m62850.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.90	624	51.95	7367	63.00	5696	75.05	21068
37.90	630	52.90	553	64.00	777	76.10	3758
38.20	736	55.05	1360	65.05	2170	76.95	151015
39.00	10866	55.95	4892	65.80	179	78.00	9574
41.15	177	57.05	9303	66.20	110	79.05	8107
41.80	1313	58.05	668	67.30	347	79.95	7377
42.95	132	59.05	270	69.00	145922	80.95	10044
44.90	116	59.95	818	70.05	201	82.05	2765
48.00	831	60.80	1515	72.00	670	82.95	2748
50.00	35806	61.05	1117	73.00	1014	85.00	5156
51.00	138200	62.00	2004	74.00	12667	85.95	253

Average of 2.758 to 2.768 min.: 3m62850.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	1404	94.85	207	103.60	384	114.10	199
87.90	974	95.10	621	104.05	3237	114.80	426
88.70	157	95.95	1075	104.95	2260	115.00	247
89.05	478	98.00	9621	105.70	126	116.10	977
90.20	94	99.00	9300	107.00	46283	117.00	27846
91.00	2437	99.95	933	108.00	7293	118.00	2713
92.00	2495	100.95	5588	108.70	318	119.00	151
93.00	14451	101.70	220	109.95	87250	119.25	346
93.80	317	102.10	549	111.00	11693	119.80	258
93.90	301	102.60	223	111.95	2398	120.20	203
94.05	1694	102.95	1868	113.05	608	122.10	2935

Average of 2.758 to 2.768 min.: 3m62850.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
122.95	3811	135.00	5205	144.15	325	151.70	348
124.00	1913	135.80	1286	144.90	568	152.40	379
124.95	1695	136.10	232	145.60	612	152.95	3122
127.00	161434	137.05	2674	145.95	939	154.00	2250
127.95	13189	137.75	549	146.90	3924	155.05	4562
129.00	62003	138.10	296	148.00	8016	155.95	6087
130.00	4950	139.10	162	148.80	227	156.95	1336
131.05	1302	140.00	839	148.95	1328	157.50	195
131.85	1122	141.00	7718	149.90	652	157.80	769
132.90	194	141.95	2095	150.70	850	158.00	505
134.05	2252	143.05	1763	151.15	1242	158.90	504

Average of 2.758 to 2.768 min.: 3m62850.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.10	566	168.00	8237	174.00	2552	183.15	527
159.85	1591	168.80	227	174.90	5483	183.80	866
160.10	673	169.00	1844	176.10	2356	184.00	289
160.95	3167	169.95	349	176.90	2490	185.00	4531
161.80	960	170.20	105	177.70	514	186.00	44085
162.95	338	171.05	690	177.95	463	187.00	12761
163.30	154	171.70	309	178.95	11273	188.00	1380
163.80	215	172.00	1080	179.95	7582	188.50	135
164.90	2347	172.95	1810	181.00	4320	188.95	2886
165.95	2493	173.20	251	181.70	209	189.90	502
167.00	13922	173.80	465	182.15	459	190.85	864

Average of 2.758 to 2.768 min.: 3m62850.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.05	400	200.10	1528	209.80	236	218.05	2647
191.70	595	201.15	1440	210.05	1646	219.25	715
192.00	2948	201.60	1142	210.85	3191	220.00	217
192.95	3693	202.00	204	211.50	1327	221.00	16581

193.95	1319	202.90	967	212.90	181	221.80	2971
194.80	454	204.00	10546	213.15	265	222.30	443
195.90	1205	205.00	20944	214.00	165	222.95	4932
196.05	8208	206.00	79781	215.05	1308	224.00	46605
198.00	310104	207.00	8680	215.60	164	225.05	10305
198.95	19548	207.90	2323	216.00	1415	226.00	589
199.90	341	209.05	890	217.00	19533	227.00	18448

Average of 2.758 to 2.768 min.: 3m62850.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
227.95	2516	237.05	1494	243.10	2407	251.85	403
229.05	4482	237.85	190	244.05	34251	252.15	453
230.00	830	238.10	190	245.00	4885	252.60	75
230.90	321	238.80	112	246.00	7161	253.00	751
231.20	1328	239.05	873	246.95	1178	255.00	177784
232.05	510	239.60	211	248.00	282	256.00	25854
233.05	298	239.90	140	248.50	97	257.00	2418
234.00	1267	240.10	521	248.95	734	258.00	9084
234.95	1321	240.80	80	249.70	159	258.90	1276
235.65	400	241.00	846	250.10	376	260.05	363
236.05	575	242.05	2298	250.80	334	260.65	288

Average of 2.758 to 2.768 min.: 3m62850.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
261.00	177	271.00	556	281.20	339	291.50	100
261.90	106	271.85	507	282.00	266	291.85	280
263.85	632	273.00	5438	282.95	1030	292.20	120
265.00	3823	274.00	12952	283.90	132	292.80	134
265.95	788	275.00	73565	284.15	509	293.05	1751
266.20	184	276.00	9891	285.05	1255	293.90	179
267.00	435	276.80	646	285.95	320	294.20	127
267.75	236	277.00	6132	288.85	487	296.00	21186
269.70	74	277.85	731	289.80	210	297.10	3113
269.85	296	278.10	422	290.10	80	297.90	327
270.20	87	279.00	223	291.00	87	300.70	207

Average of 2.758 to 2.768 min.: 3m62850.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
300.90	123	314.70	79	326.90	1697	345.20	110
302.00	382	314.95	1692	328.00	894	345.50	86
302.95	2678	316.00	1583	331.95	461	345.95	1425
303.90	576	317.20	75	332.20	228	346.70	95
305.10	132	320.80	212	332.80	648	347.00	183
307.95	377	321.10	632	333.10	255	350.70	81
308.70	407	321.95	469	334.05	4308	352.00	2707
310.00	404	322.95	7117	334.95	1152	352.80	162
312.00	95	324.05	1166	339.80	243	353.05	2362
312.85	291	324.90	144	340.85	1061	353.30	205
314.00	1241	325.90	163	342.00	234	354.05	2228

Average of 2.758 to 2.768 min.: 3m62850.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
354.50	90	372.70	90	391.30	167	420.60	87
354.80	223	373.15	705	392.00	231	421.00	2059
355.00	188	374.20	195	400.95	425	421.90	1895
359.10	90	376.60	237	401.80	388	423.00	13549
364.00	97	382.90	337	402.05	991	423.90	1223
365.00	9333	383.10	589	402.95	2156	424.10	729
365.90	401	383.85	493	404.05	846	425.05	546
366.10	680	384.80	96	404.70	140	437.70	88
369.80	187	389.90	878	404.90	198	438.80	90
371.00	685	390.20	136	410.05	164	441.10	37967
371.95	3611	390.80	117	414.80	302	442.00	234368

Average of 2.758 to 2.768 min.: 3m62850.D\data.ms

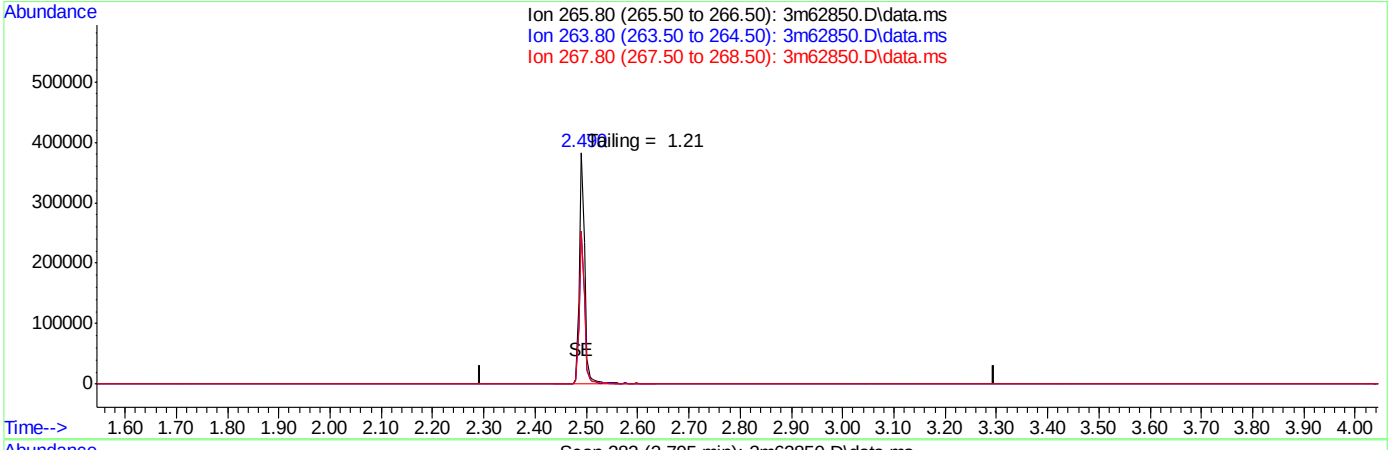
dftpp
Modified:subtracted

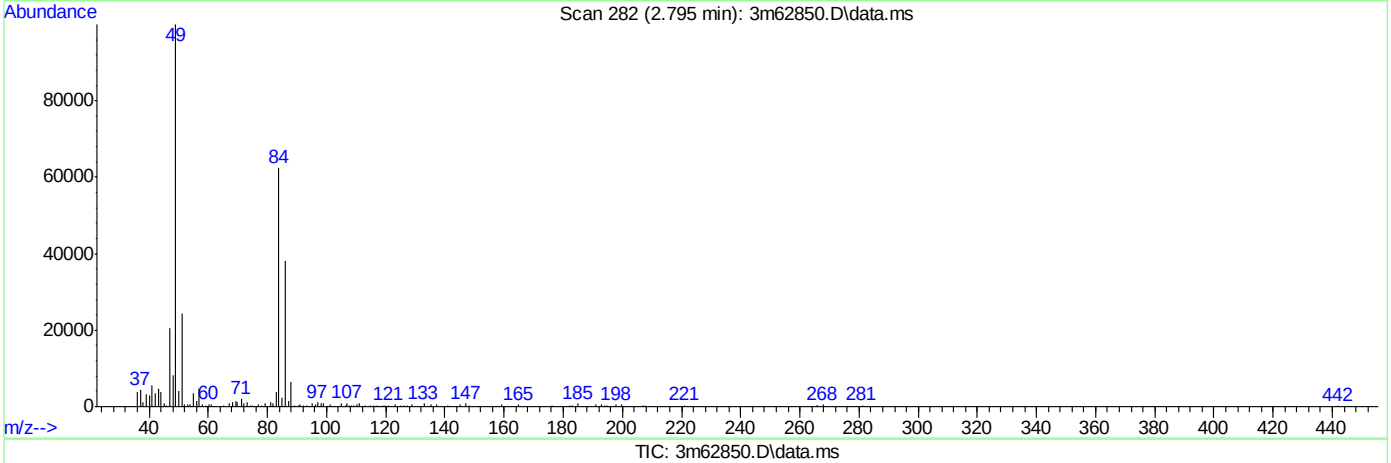
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
443.00	45329						
444.10	4683						
444.95	304						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62850.D
Acq On : 8 Jul 2016 10:03 am
Operator : linseyk
Sample : dftpp
Misc : op95160a,e3m2968
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 08 10:07:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62850.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

response 0

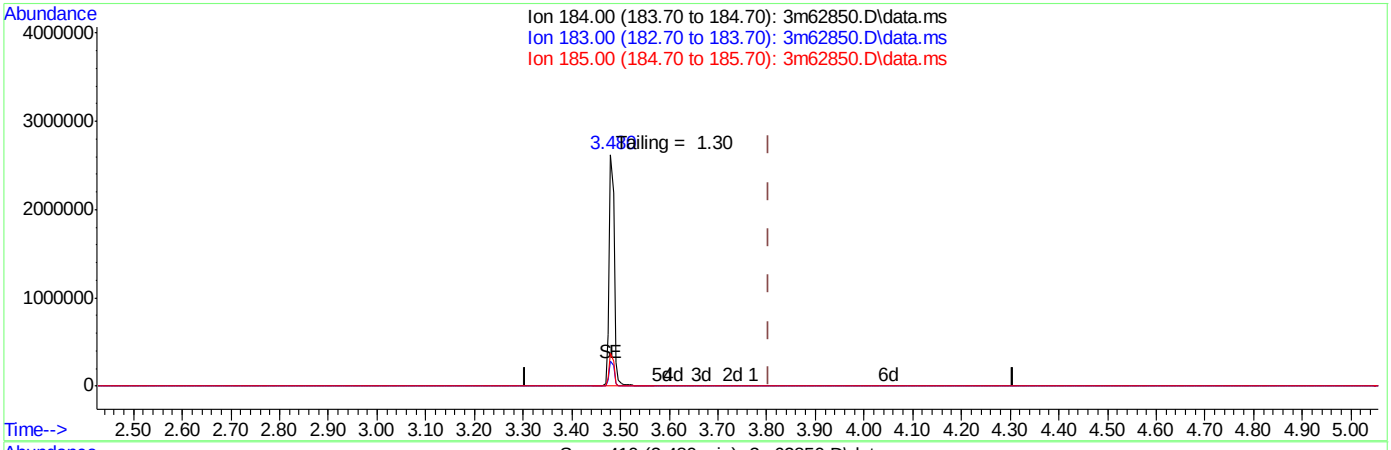
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

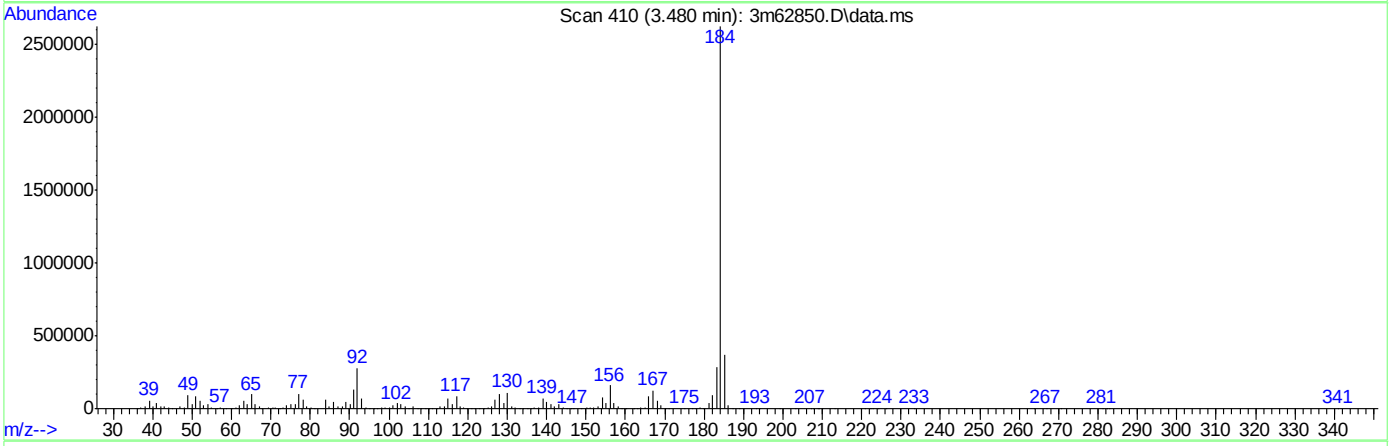
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62850.D
Acq On : 8 Jul 2016 10:03 am
Operator : linseyk
Sample : dftpp
Misc : op95160a,e3m2968
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 08 10:07:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62850.D\data.ms

(2) Benzidine (t)

3.480min (-0.326) 104.72ppb m

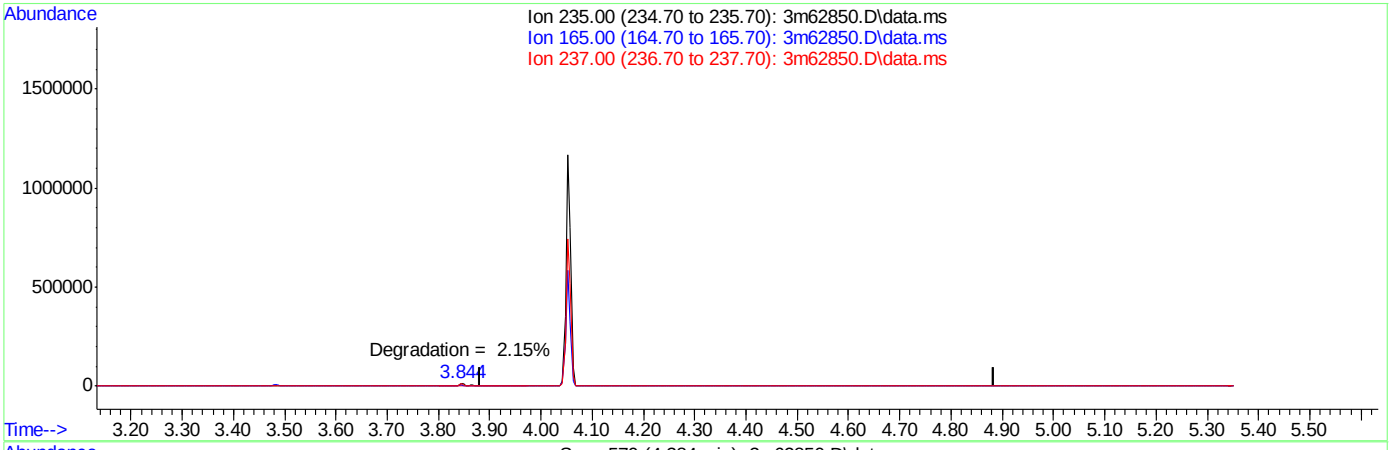
response 1905674

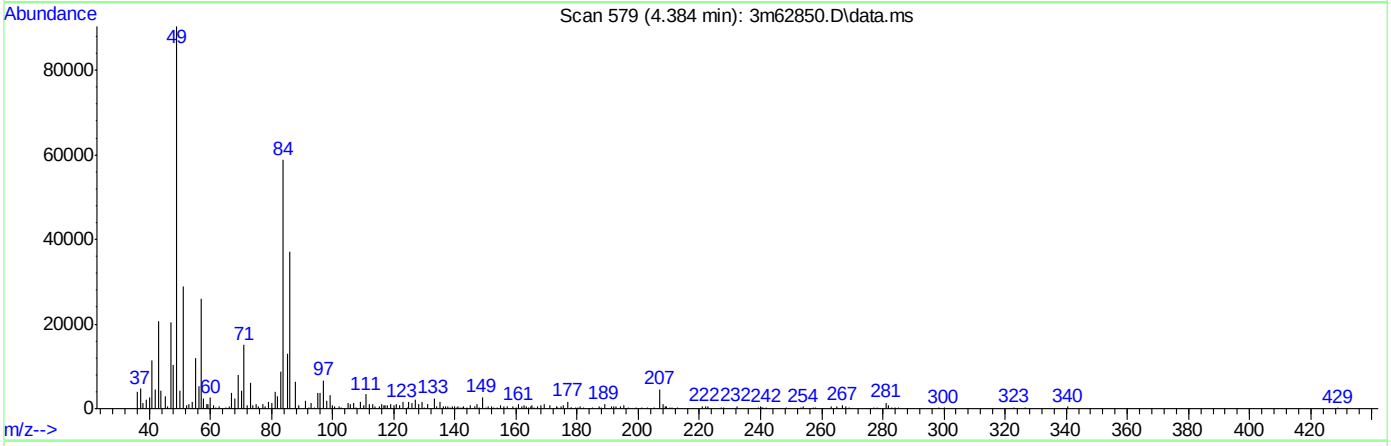
Ion	Exp%	Act%
184.00	100	100
183.00	11.50	11.00
185.00	14.40	14.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62850.D
Acq On : 8 Jul 2016 10:03 am
Operator : linseyk
Sample : dftpp
Misc : op95160a,e3m2968
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 08 10:07:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62850.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

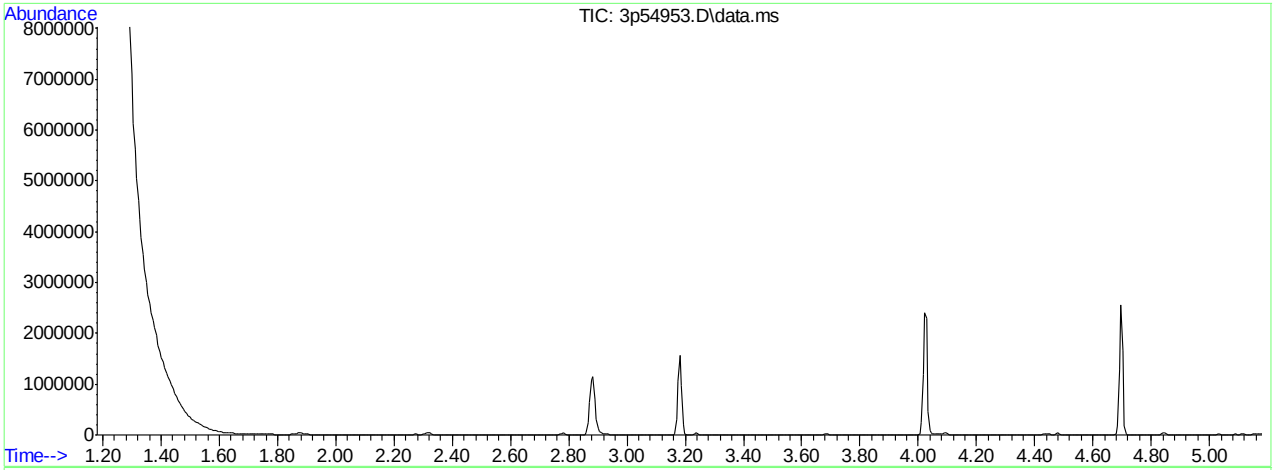
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC23443

DFTPP

Data File : C:\msdchem\1\data\E3P2503\3p54953.D Vial: 1
Acq On : 6 Jul 2016 9:12 am Operator: hankc
Sample : DFTPP Inst : MSGC3P
Misc : op94978,e3p2503 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um



AutoFind: Scans 330, 331, 332; Background Corrected with Scan 326

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.2	57126	PASS
68	69	0.00	2	1.7	1062	PASS
69	198	0.00	100	41.8	62449	PASS
70	69	0.00	2	0.6	387	PASS
127	198	40	60	48.4	72301	PASS
197	198	0.00	1	0.7	1015	PASS
198	198	100	100	100.0	149501	PASS
199	198	5	9	6.8	10162	PASS
275	198	10	30	22.7	33995	PASS
365	198	1	100	2.8	4170	PASS
441	443	0.01	100	81.6	16547	PASS
442	198	40	100	73.0	109091	PASS
443	442	17	23	18.6	20290	PASS

3p54953.D DFTPP3P.M Fri Jul 08 09:11:01 2016

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	2955	63.95	301	77.00	64389	90.95	1064
51.00	57126	65.00	1197	78.00	4401	92.00	940
52.00	3031	66.90	74	79.00	3741	93.00	6346
52.95	145	68.00	1062	80.00	2904	93.95	475
54.95	92	69.00	62449	81.00	4303	94.90	222
56.00	1681	70.00	387	82.00	1086	95.90	422
57.00	3969	70.90	73	82.95	981	97.00	225
57.95	174	73.00	326	84.95	857	98.00	4664
60.95	683	74.00	5251	85.90	913	99.00	4074
62.00	761	75.00	8784	86.95	629	99.95	407
63.00	2173	76.00	2955	87.85	294	100.95	2404

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
102.90	756	116.00	943	129.00	26797	141.95	1075
104.00	1459	117.00	13133	129.90	2257	142.95	764
104.95	1429	117.90	997	130.90	463	143.90	80
106.05	507	118.90	83	132.00	166	145.90	542
107.00	18956	119.95	178	133.95	652	146.95	1539
108.00	3037	121.95	1137	134.95	2002	148.00	3486
109.05	623	123.00	1852	135.90	861	148.90	761
110.00	37213	123.95	857	136.95	1076	149.90	217
111.00	5431	124.95	833	137.75	176	150.90	119
112.00	680	127.00	72301	139.90	222	151.05	269
113.00	184	128.00	5277	140.95	3070	151.60	82

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.80	232	163.80	77	174.00	1335	186.00	18693
152.95	922	164.00	80	175.00	2520	187.00	5103
154.00	697	164.95	1126	176.00	734	187.90	524
155.00	1821	166.00	1082	176.90	1042	188.90	1043
156.00	2805	167.00	6428	177.90	378	189.90	69
157.00	558	167.95	3248	178.90	4649	190.90	527
157.90	538	168.95	570	180.00	3249	191.95	1571
158.90	430	169.95	163	180.95	1558	192.95	1817
159.95	1002	170.90	256	181.90	307	194.00	342
160.95	1447	171.95	543	183.95	377	194.90	108
161.90	411	172.95	791	185.00	2330	195.95	4036

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
196.90	1015	208.90	341	225.95	440	239.00	281
197.90	149501	210.30	175	226.95	7494	239.90	183
198.90	10162	210.95	1352	227.95	999	240.85	402
199.95	720	214.90	343	228.90	1661	241.95	1113
201.35	657	216.00	706	229.90	183	243.00	1054
202.90	916	216.90	8848	230.95	689	244.00	15577
204.00	4963	217.90	1082	232.90	82	245.00	2075
205.00	8235	221.00	7477	233.90	525	245.95	2728
206.00	34419	222.95	2104	234.90	539	246.90	605
206.95	4313	224.00	18613	235.85	386	248.90	487
207.90	1104	225.00	4589	236.95	626	252.85	359

Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
253.95	534	273.95	6191	296.90	1394	327.90	335
255.00	75555	275.00	33995	302.00	75	331.90	126
256.00	10922	276.00	4787	303.00	1110	332.95	230
256.90	917	276.95	2683	303.85	294	334.00	1982

DFTPP3P.M Fri Jul 08 09:10:38 2016 Page: 0

SGS ACCUTEST JC23443

257.95	4171	277.85	452	313.90	461	334.90	539
258.90	640	282.95	373	314.90	1058	340.95	414
264.95	1632	283.90	111	315.95	528	345.90	763
265.80	87	284.95	500	320.95	344	351.95	913
270.90	89	292.95	628	323.00	3263	352.95	698
271.90	86	294.90	78	324.00	600	353.95	915
272.95	2479	295.95	9348	326.90	607	355.00	102

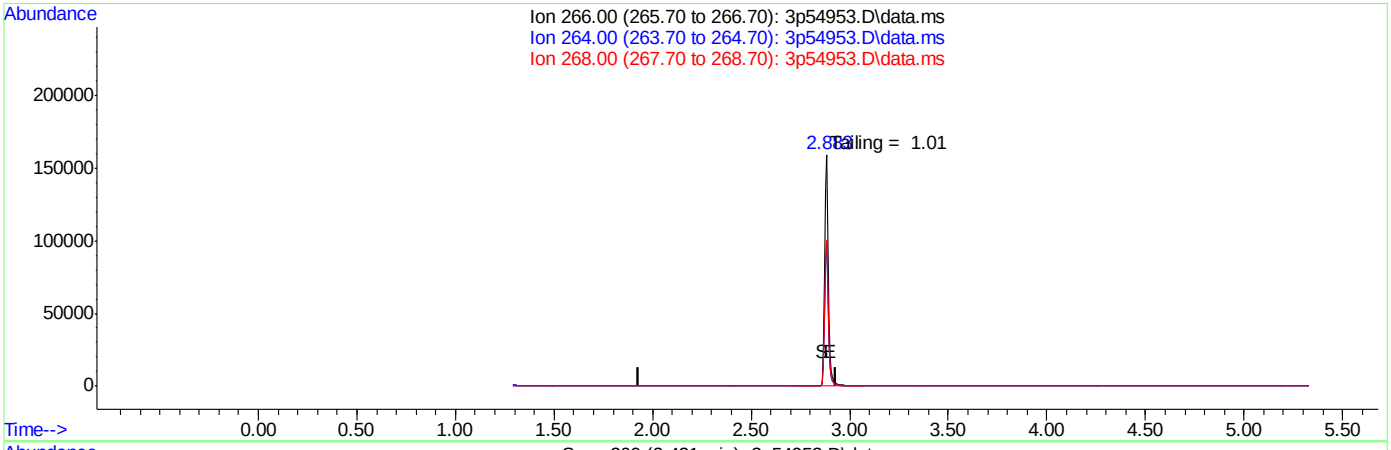
Average of 3.175 to 3.186 min.: 3p54953.D\data.ms
DFTPP
Modified:subtracted

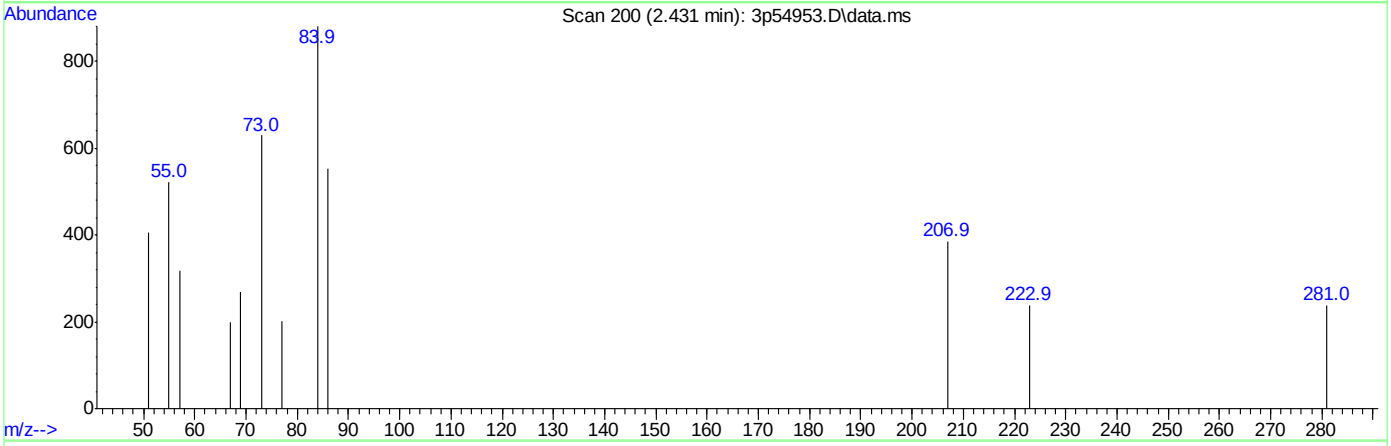
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
364.90	4170	421.95	702				
365.90	597	423.00	5541				
370.90	237	424.00	1113				
371.95	1727	441.00	16547				
372.90	423	442.00	109091				
382.90	397	443.00	20290				
389.90	210	444.00	2003				
401.85	620						
402.95	941						
403.90	227						
420.90	854						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54953.D
Acq On : 6 Jul 2016 9:12 am
Operator : hankc
Sample : DFTPP
Misc : op94978,e3p2503
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 09:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p54953.D\data.ms

(1) Pentachlorophenol

2.431min (-2.431) 0.00

response 0

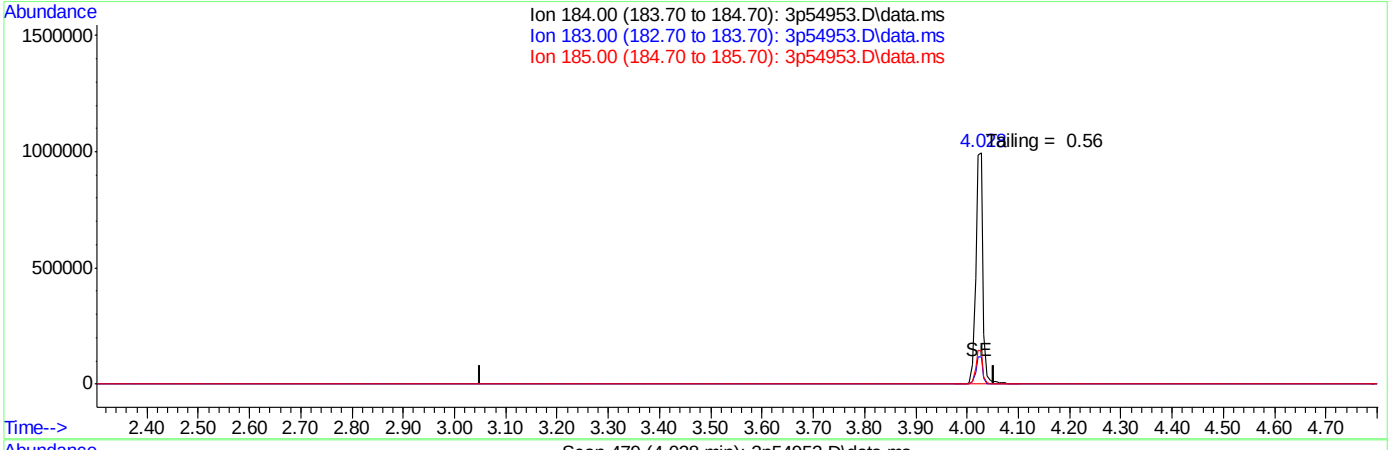
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

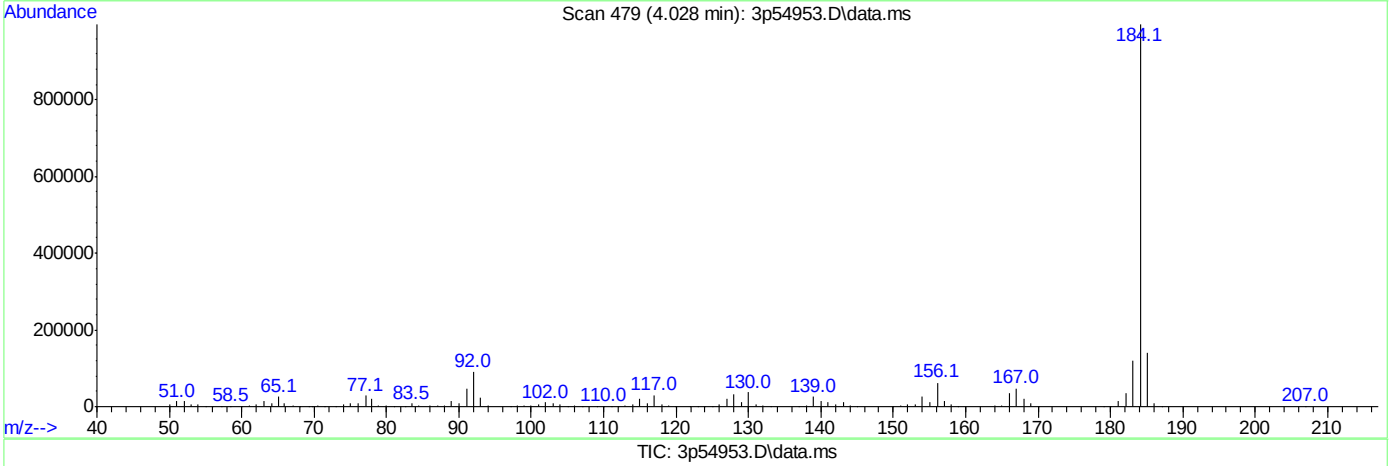
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54953.D
Acq On : 6 Jul 2016 9:12 am
Operator : hankc
Sample : DFTPP
Misc : op94978,e3p2503
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 09:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p54953.D\data.ms

(2) Benzidine

3.552min (-3.552) 0.00

response 0

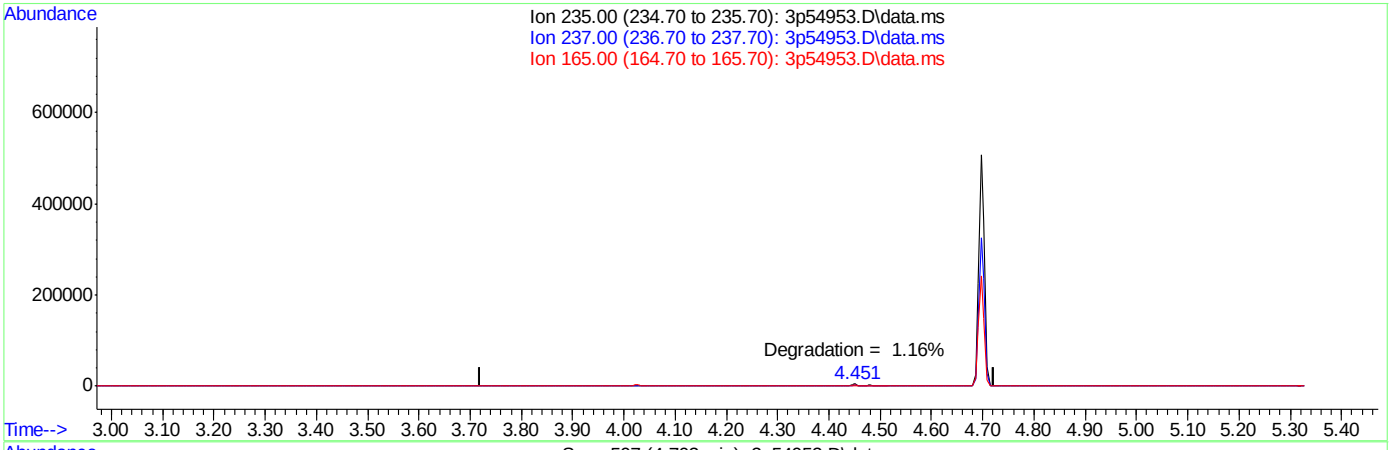
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

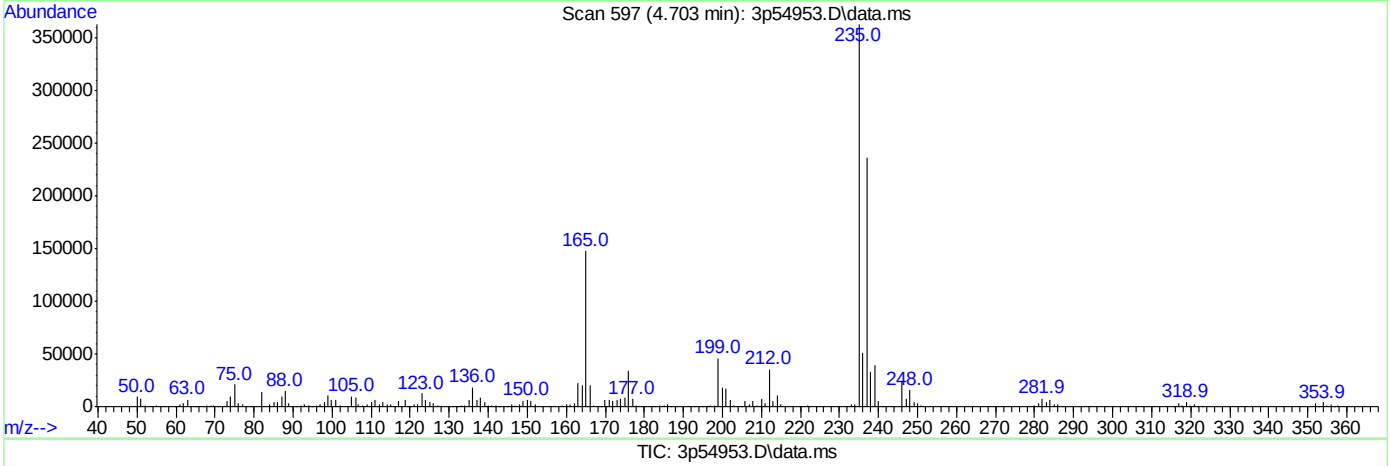
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54953.D
Acq On : 6 Jul 2016 9:12 am
Operator : hankc
Sample : DFTPP
Misc : op94978,e3p2503
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 09:18:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p54953.D\data.ms

(3) PP-DDT

4.222min (-4.222) 0.00

response 0

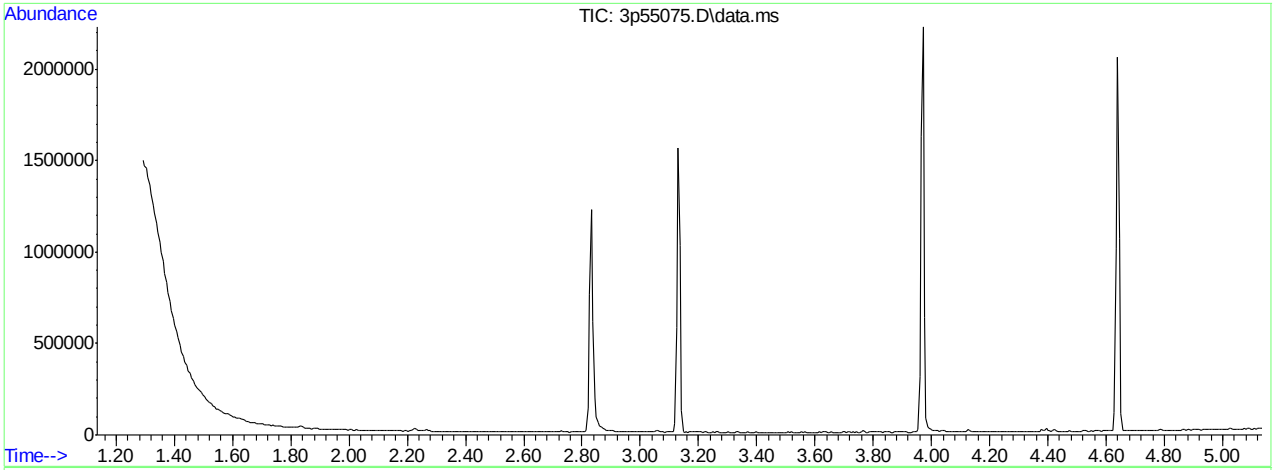
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

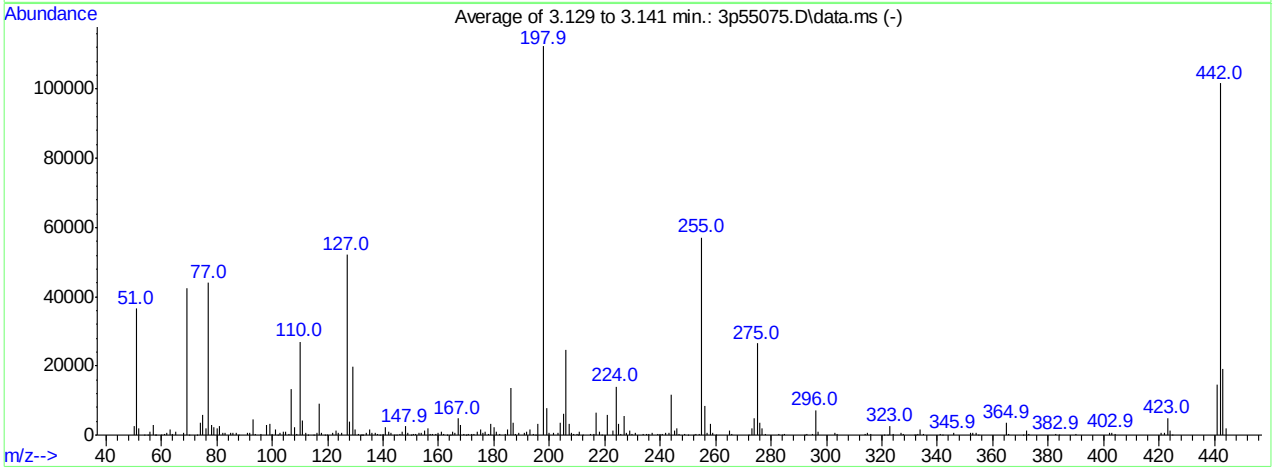
SGS ACCUTEST JC23443

DFTPP

Data File : C:\msdchem\1\data\E3P2509\3p55075.D Vial: 1
Acq On : 13 Jul 2016 9:49 am Operator: ashleyd
Sample : dftpp Inst : MSGC3P
Misc : op95332a,e3p2509 Multiplr: 1.00
MS Integration Params: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M (ChemStation Integrator)
Title : zebron ZB-5msi 30mx0.25mmx0.25um





AutoFind: Scans 322, 323, 324; Background Corrected with Scan 317

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.6	36615	PASS
68	69	0.00	2	1.4	591	PASS
69	198	0.00	100	37.8	42454	PASS
70	69	0.00	2	0.4	156	PASS
127	198	40	60	46.4	52171	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	112347	PASS
199	198	5	9	6.9	7723	PASS
275	198	10	30	23.5	26449	PASS
365	198	1	100	3.1	3469	PASS
441	443	0.01	100	76.5	14723	PASS
442	198	40	100	90.5	101635	PASS
443	442	17	23	18.9	19258	PASS

3p55075.D DFTPP3P.M Wed Jul 13 15:47:45 2016

Average of 3.129 to 3.141 min.: 3p55075.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	2518	62.00	531	77.00	43958	91.00	632
51.00	36615	63.00	1566	78.00	2875	92.00	782
52.00	1923	63.95	202	78.95	2388	93.00	4511
54.00	67	65.00	834	79.95	2046	94.00	342
55.00	15	68.00	591	80.95	2759	96.00	279
56.00	1090	69.00	42454	82.00	587	98.00	2950
57.00	2906	69.95	156	83.00	551	99.00	3167
57.80	111	73.00	124	84.90	676	99.90	294
58.00	91	74.00	3553	85.90	518	101.00	1679
60.00	36	75.00	5960	86.95	527	102.00	67
60.95	394	76.00	1942	87.90	103	102.95	537

Average of 3.129 to 3.141 min.: 3p55075.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
104.00	951	116.00	635	129.00	19638	138.90	147
104.90	939	117.00	9027	129.90	1741	139.90	192
105.95	297	117.90	722	130.90	340	141.00	2307
107.00	13398	119.00	141	131.90	150	141.95	844
108.00	2186	119.90	145	132.20	96	142.95	565
109.00	412	121.90	761	132.90	54	143.90	157
110.00	27020	123.00	1256	133.90	505	145.00	93
111.00	4205	123.90	671	135.00	1474	145.95	385
111.95	536	124.90	582	135.90	604	146.95	1072
112.90	98	127.00	52171	137.00	793	147.95	2474
114.90	72	128.00	3785	137.90	217	148.95	638

Average of 3.129 to 3.141 min.: 3p55075.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
149.95	175	160.95	1057	171.90	408	183.95	273
151.00	365	161.90	312	172.90	493	185.00	1636
151.85	252	162.90	69	173.95	880	186.00	13673
152.90	755	164.20	74	175.00	1712	187.00	3722
153.90	532	164.95	912	175.90	586	187.90	442
155.00	1374	165.95	654	176.90	938	188.90	674
156.00	2052	167.00	4714	177.95	312	190.90	504
156.95	428	168.00	2880	178.90	3400	191.95	1145
157.90	408	168.95	448	180.00	2441	193.00	1492
158.85	291	169.90	107	180.95	1097	194.00	242
159.95	627	170.80	213	181.90	247	194.95	157

Average of 3.129 to 3.141 min.: 3p55075.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
195.90	3122	208.90	202	222.95	1403	235.85	252
197.90	112347	209.90	296	224.00	14086	236.95	522
198.90	7723	210.20	170	225.00	3274	238.95	197
199.90	599	210.95	1006	225.90	419	239.90	203
201.35	557	211.80	115	227.00	5427	240.85	299
202.90	671	214.85	229	227.90	702	242.00	723
204.00	3602	216.00	474	228.90	1256	243.00	723
205.00	6237	216.90	6605	229.95	193	244.00	11649
206.00	24679	217.90	870	230.90	547	245.00	1453
207.00	3331	218.90	71	233.95	309	245.95	1980
207.90	751	221.00	5754	234.95	447	246.90	394

Average of 3.129 to 3.141 min.: 3p55075.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.90	337	264.90	1232	284.90	319	320.90	171
249.90	69	265.85	288	291.90	67	322.00	76
252.00	87	271.90	167	292.95	382	323.00	2749
252.95	258	272.95	1834	294.90	177	323.95	424

DFTPP3P.M Wed Jul 13 15:46:59 2016 Page: 0

253.95	285	274.00	4854	296.00	7161	326.90	571
255.00	57101	275.00	26449	296.95	1105	327.85	262
255.95	8578	275.95	3537	302.90	783	331.80	84
256.90	649	276.90	1967	304.00	195	332.00	99
257.95	3128	277.90	456	313.90	359	332.95	208
258.90	521	282.95	248	314.90	717	333.90	1682
260.00	85	284.00	97	315.90	435	334.90	348

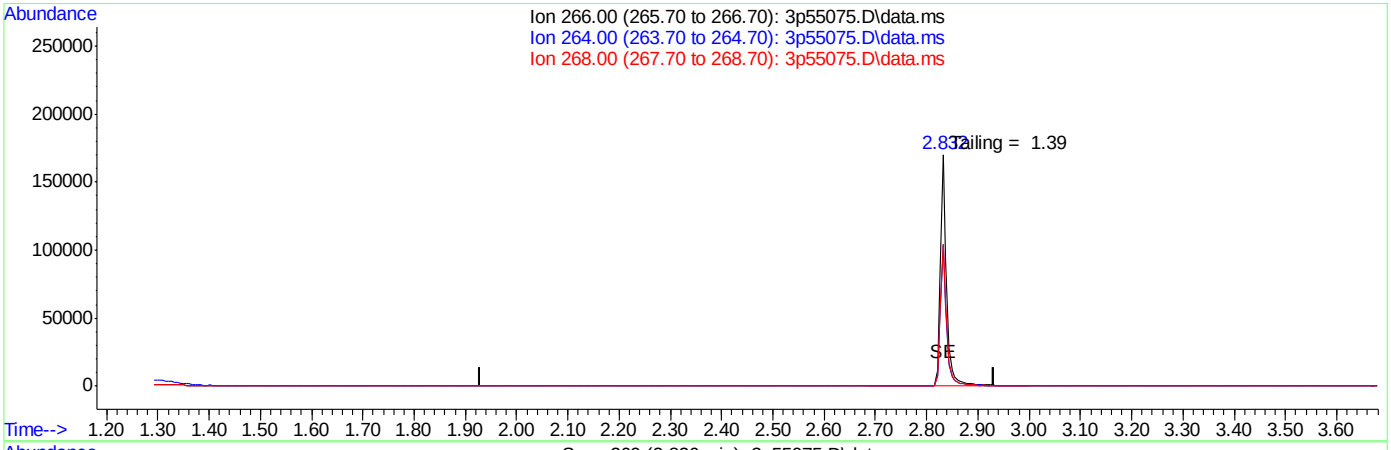
Average of 3.129 to 3.141 min.: 3p55075.D\data.ms
dftpp
Modified:subtracted

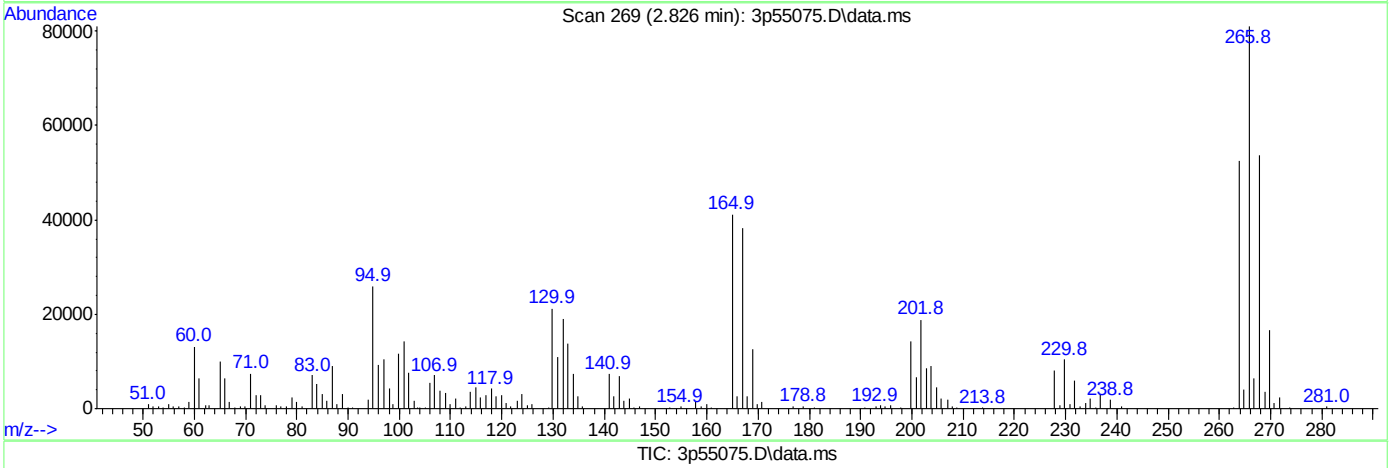
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.00	309	372.95	307	424.80	98		
342.00	75	382.90	313	441.00	14723		
345.90	624	383.90	152	442.00	101635		
351.95	736	389.95	198	443.00	19258		
352.90	532	401.95	593	444.00	1841		
354.00	762	402.90	783				
354.95	160	403.95	198				
364.95	3469	420.90	749				
365.90	485	421.95	653				
370.90	162	423.00	4944				
372.00	1393	424.00	1439				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2509\
Data File : 3p55075.D
Acq On : 13 Jul 2016 9:49 am
Operator : ashleyd
Sample : dftpp
Misc : op95332a,e3p2509
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 09:54:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55075.D\data.ms

(1) Pentachlorophenol

2.431min (-2.431) 0.00

response 0

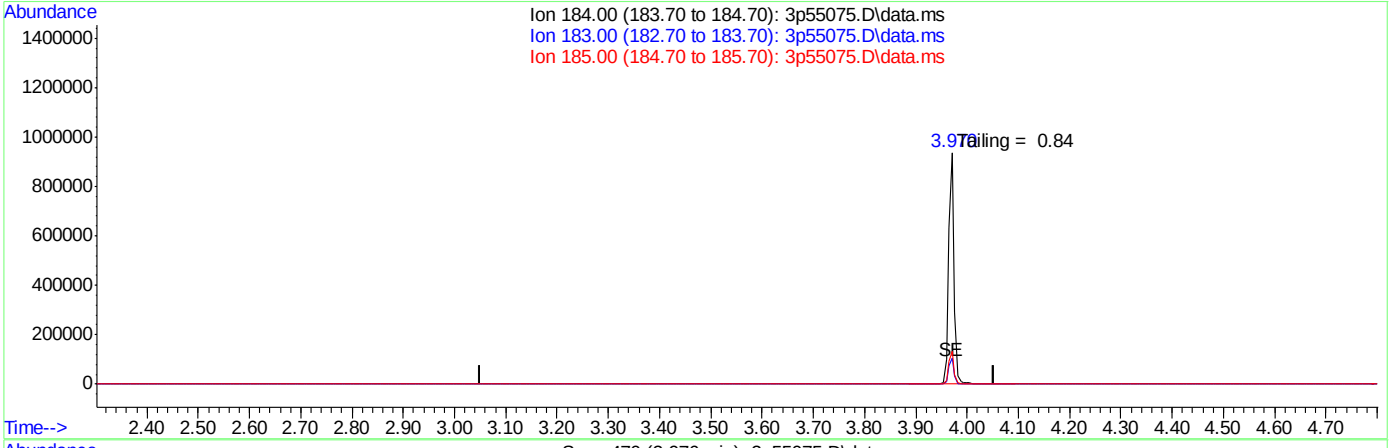
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

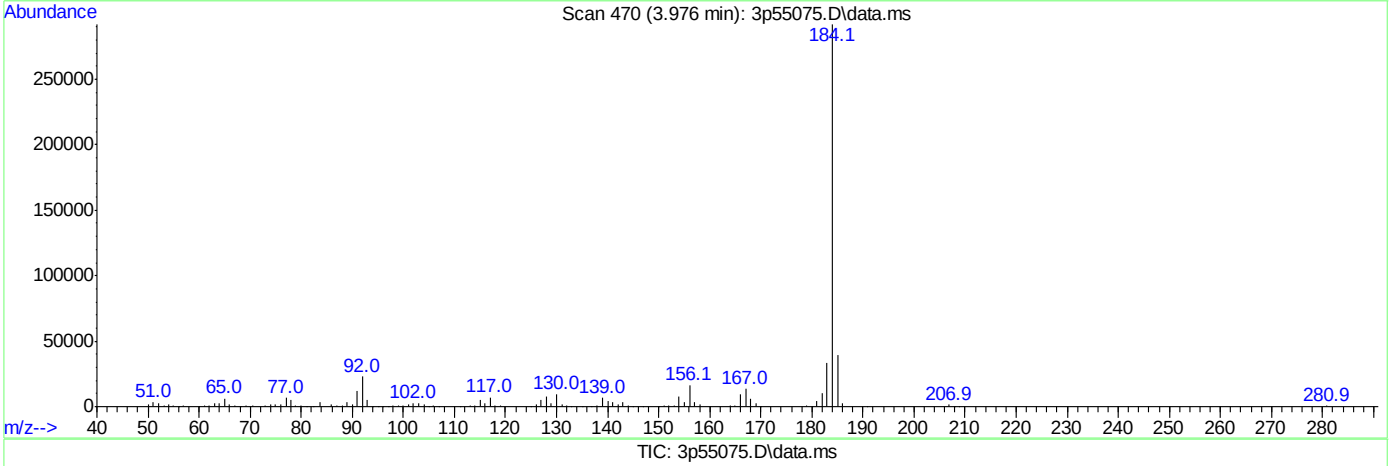
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\E3P2509\
Data File : 3p55075.D
Acq On    : 13 Jul 2016   9:49 am
Operator  : ashleyd
Sample    : dftpp
Misc      : op95332a,e3p2509
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 13 09:54:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title  : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration
```





(2) Benzidine

3.552min (-3.552) 0.00

response 0

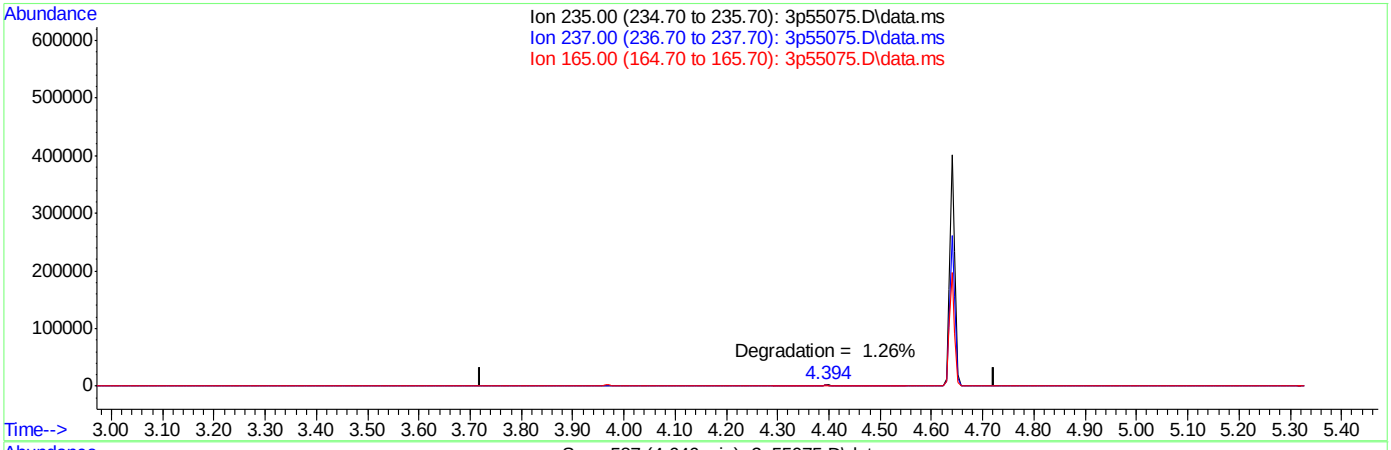
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

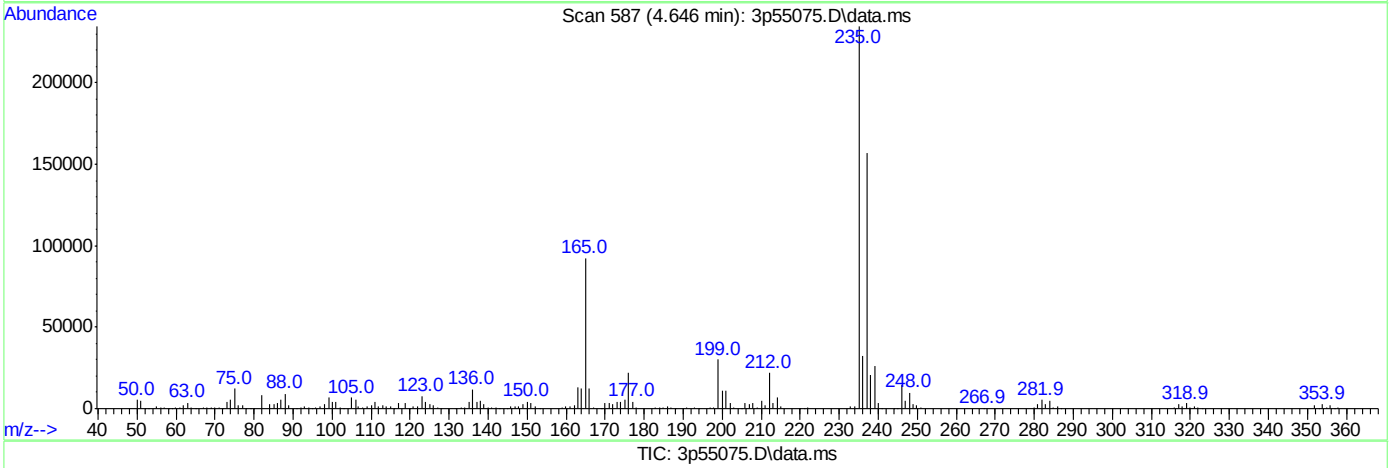
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2509\
Data File : 3p55075.D
Acq On : 13 Jul 2016 9:49 am
Operator : ashleyd
Sample : dftpp
Misc : op95332a,e3p2509
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 09:54:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3P.M
Quant Title : zebron ZB-5msi 30mx0.25mmx0.25um
QLast Update : Wed Mar 02 08:34:25 2016
Response via : Initial Calibration





TIC: 3p55075.D\data.ms

(3) PP-DDT

4.222min (-4.222) 0.00

response 0

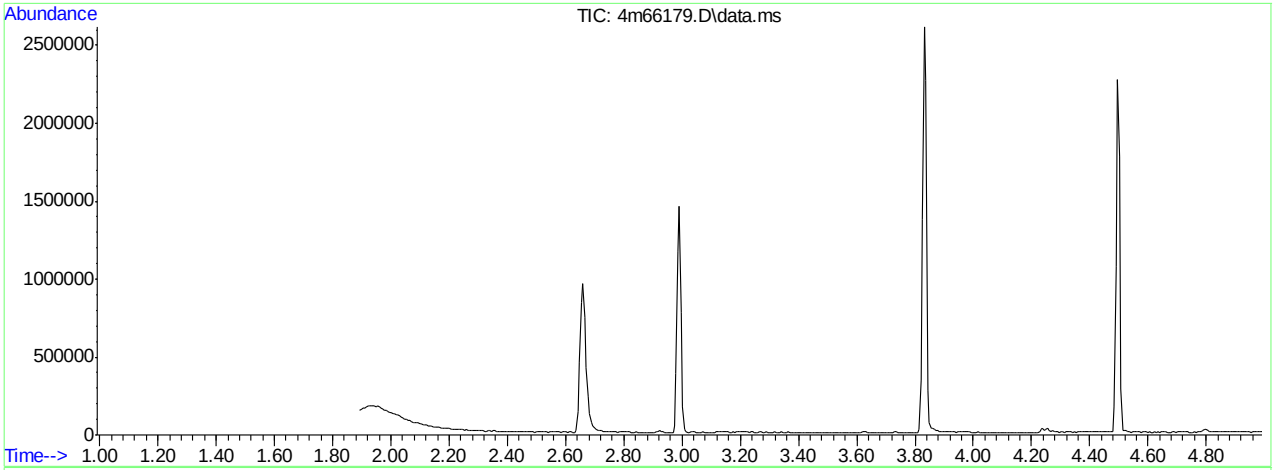
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC23443

DFTPP

Data File : C:\msdchem\1\DATA\E4M2974\4m66179.D Vial: 1
Acq On : 20 Jun 2016 10:06 pm Operator: ashleyd
Sample : dftpp Inst : GCMS4M
Misc : op94799a,e4m2974 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um



AutoFind: Scans 192, 193, 194; Background Corrected with Scan 187

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.7	58020	PASS
68	69	0.00	2	0.9	561	PASS
69	198	0.00	100	44.3	61706	PASS
70	69	0.00	2	0.4	274	PASS
127	198	40	60	50.0	69656	PASS
197	198	0.00	1	0.3	387	PASS
198	198	100	100	100.0	139197	PASS
199	198	5	9	6.6	9146	PASS
275	198	10	30	20.6	28704	PASS
365	198	1	100	2.4	3401	PASS
441	443	0.01	100	76.6	15333	PASS
442	198	40	100	72.8	101275	PASS
443	442	17	23	19.8	20015	PASS

4m66179.D DFTPP4M.M Tue Jun 21 07:51:45 2016 MANAGER

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	15050	62.05	815	74.05	5262	85.00	663
51.05	58020	63.05	2325	75.00	8692	86.00	482
52.00	3099	64.10	428	76.10	3223	87.05	590
52.95	188	65.00	1155	77.05	63527	87.90	16
54.10	85	66.90	213	78.10	4774	89.00	69
55.10	356	67.20	127	79.00	3877	91.00	970
56.00	1758	68.00	561	80.00	2995	92.00	1263
57.00	3953	68.95	61706	81.00	4713	93.00	6468
57.90	312	70.00	274	82.00	899	93.95	419
60.05	246	71.05	13	82.95	969	94.95	346
61.00	760	72.95	342	84.00	339	96.05	393

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.00	13	108.00	3005	119.95	217	132.95	167
98.00	4455	110.00	36653	122.00	1075	134.00	734
99.00	3735	111.00	5105	123.00	1822	135.00	1922
100.00	412	111.95	656	124.00	723	136.00	808
101.00	2476	112.90	67	125.00	952	137.00	972
101.80	88	113.10	85	127.00	69656	137.70	118
103.00	876	115.00	194	128.00	5317	140.00	316
104.00	1542	116.05	1067	129.00	25164	141.00	2818
105.00	1487	117.00	10735	130.00	1825	142.05	1018
106.10	434	117.95	891	131.00	461	143.00	729
107.00	17644	118.90	187	132.05	308	144.00	230

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.05	166	153.00	580	162.95	161	174.00	1182
145.90	166	154.00	654	163.90	267	175.05	2222
146.05	350	155.05	1787	164.95	1144	176.00	814
147.00	1398	156.00	2581	166.00	843	176.95	1132
148.00	2948	157.00	637	167.00	5850	178.00	467
148.95	690	157.90	555	168.05	2419	179.00	4345
149.90	95	158.90	319	168.95	516	180.00	2995
151.00	491	159.10	105	170.00	190	181.00	1534
151.60	133	160.00	826	171.00	357	182.00	304
152.00	180	160.95	1212	171.90	560	182.90	168
152.80	309	162.00	489	173.00	732	184.00	357

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.00	2069	194.80	100	203.05	525	212.20	69
186.05	16713	195.10	143	204.05	4544	213.10	69
187.00	4736	196.00	4173	205.05	6989	215.05	235
187.95	447	196.70	387	206.10	31419	216.00	513
188.95	924	198.00	139197	207.10	4195	217.00	7273
190.00	74	199.00	9146	207.90	338	218.05	997
190.95	443	200.00	690	208.10	801	219.80	68
191.20	154	201.20	161	209.00	381	221.10	7656
192.00	1122	201.55	850	210.00	146	223.00	1988
192.95	1559	202.15	298	210.95	1200	224.10	16877
194.05	411	202.90	233	212.00	93	225.10	3938

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.00	573	240.00	104	250.80	75	259.90	68
227.00	6296	240.95	287	252.00	100	264.00	72
228.00	1005	242.00	980	252.30	89	265.05	1111
229.00	1373	243.00	345	252.50	130	265.85	278

M4M2973SIM.M Mon Jun 20 21:06:02 2016 MANAGER Page: 0

229.95	233	243.15	806	253.05	222	270.05	144
231.10	691	244.10	13582	253.30	320	272.00	93
234.00	443	245.05	1807	255.00	64309	273.00	2154
234.85	439	246.00	2074	256.00	9152	274.05	5590
235.95	216	246.90	138	257.05	809	275.00	28704
236.95	529	247.05	387	258.05	3317	276.05	4067
239.10	117	249.00	506	259.00	500	277.05	1922

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.00	290	303.05	860	326.95	433	355.20	68
283.05	200	304.00	109	327.90	241	365.00	3401
284.10	82	308.10	76	332.10	77	366.00	467
285.10	388	309.90	69	333.10	314	371.05	308
291.90	83	314.00	406	334.00	1393	372.05	1423
293.00	680	315.00	824	335.05	470	373.00	368
294.70	69	315.95	478	341.00	450	382.95	300
295.05	330	321.05	335	346.00	599	383.90	70
296.05	6825	322.05	192	352.10	813	390.00	98
297.05	1078	323.05	2675	353.10	566	402.05	546
301.00	67	324.00	445	354.10	844	403.05	855

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

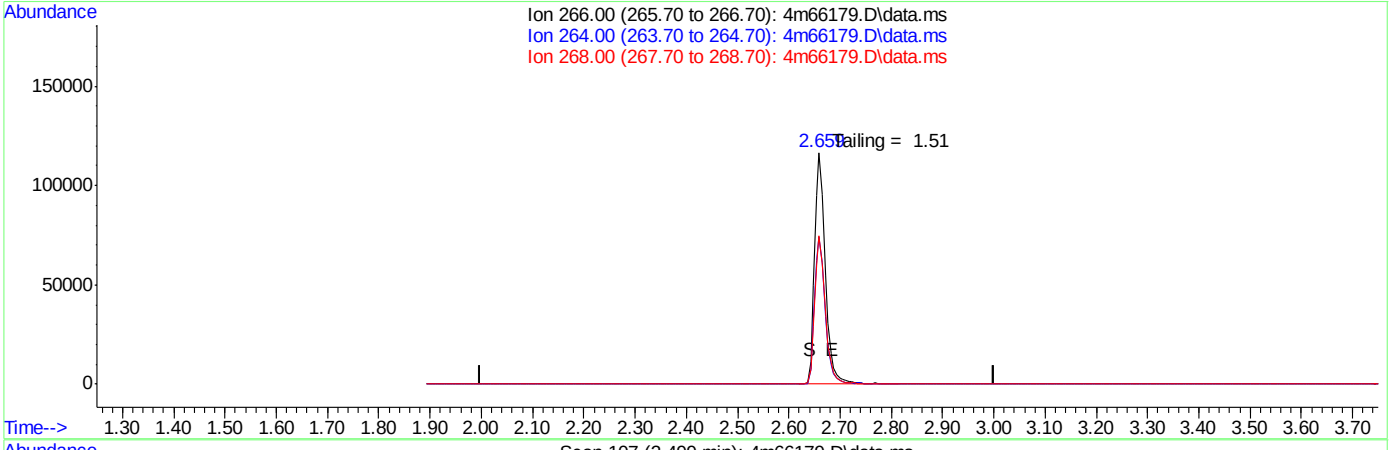
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
403.95	329	441.10	15333				
421.05	716	442.10	101275				
422.05	759	443.10	20015				
423.10	5222	444.10	1759				
424.05	1108						
433.80	68						
434.20	68						
437.70	114						
438.20	121						
438.55	354						
439.15	193						

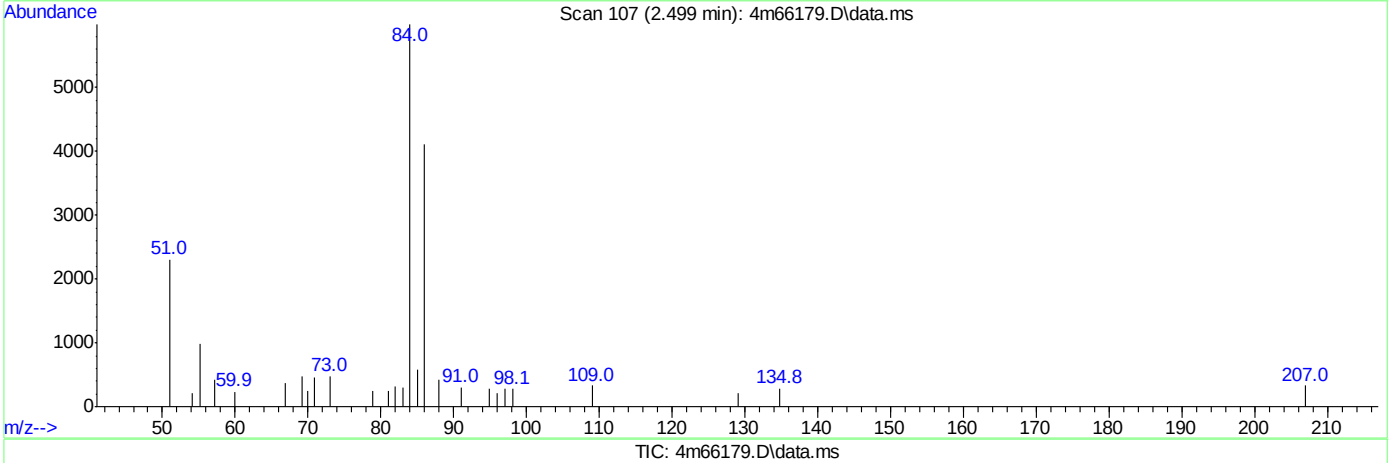
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66179.D
Acq On : 20 Jun 2016 10:06 pm
Operator : ashleyd
Sample : dftpp
Misc : op94799a,e4m2974
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 22:11:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66179.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

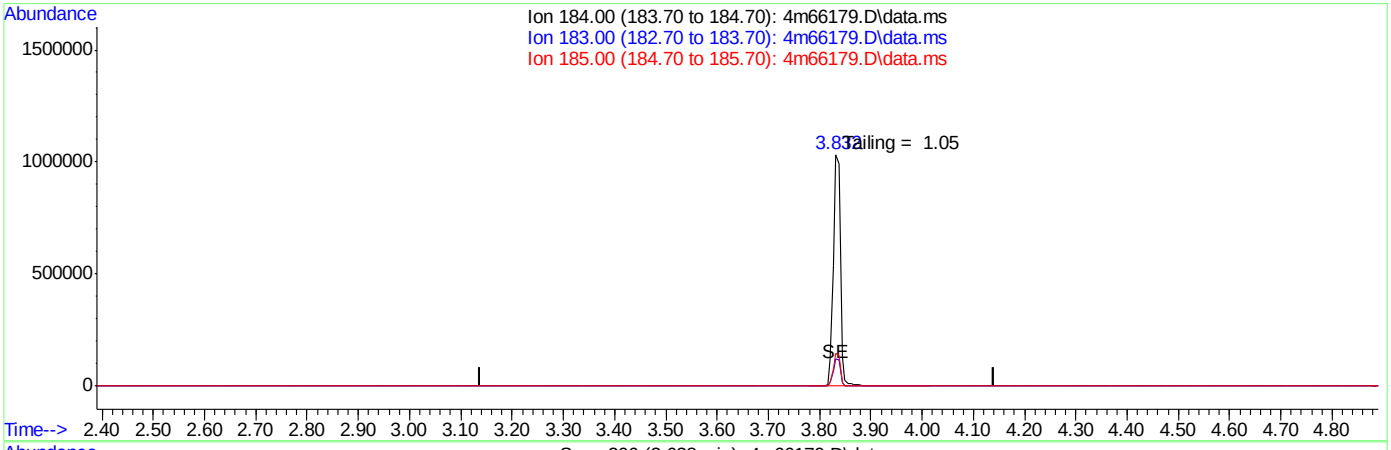
response 0

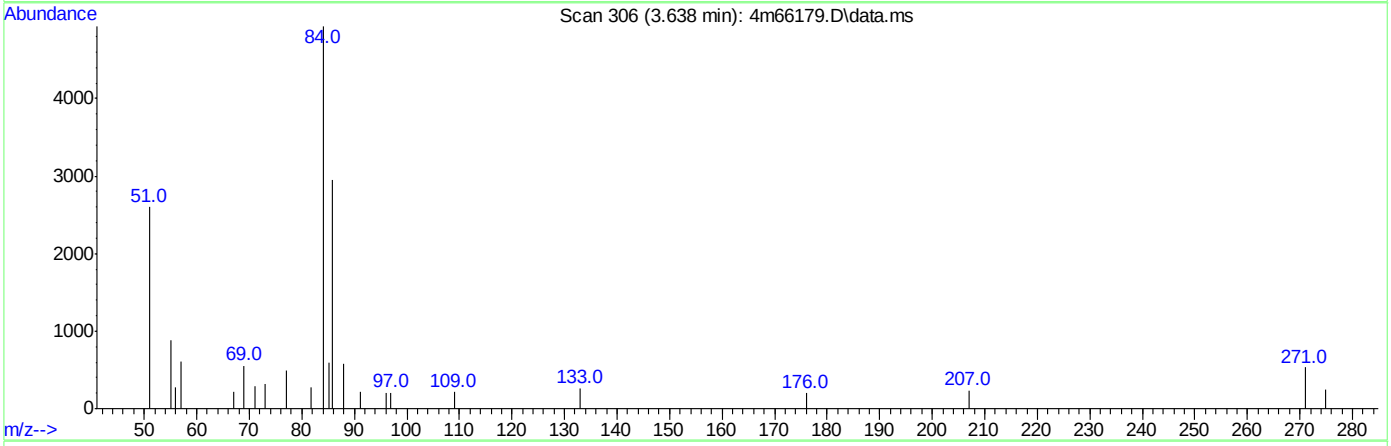
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66179.D
Acq On : 20 Jun 2016 10:06 pm
Operator : ashleyd
Sample : dftpp
Misc : op94799a,e4m2974
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 22:11:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66179.D\data.ms

(2) benzidine (t)

3.640min (-3.640) 0.00ppb

response 0

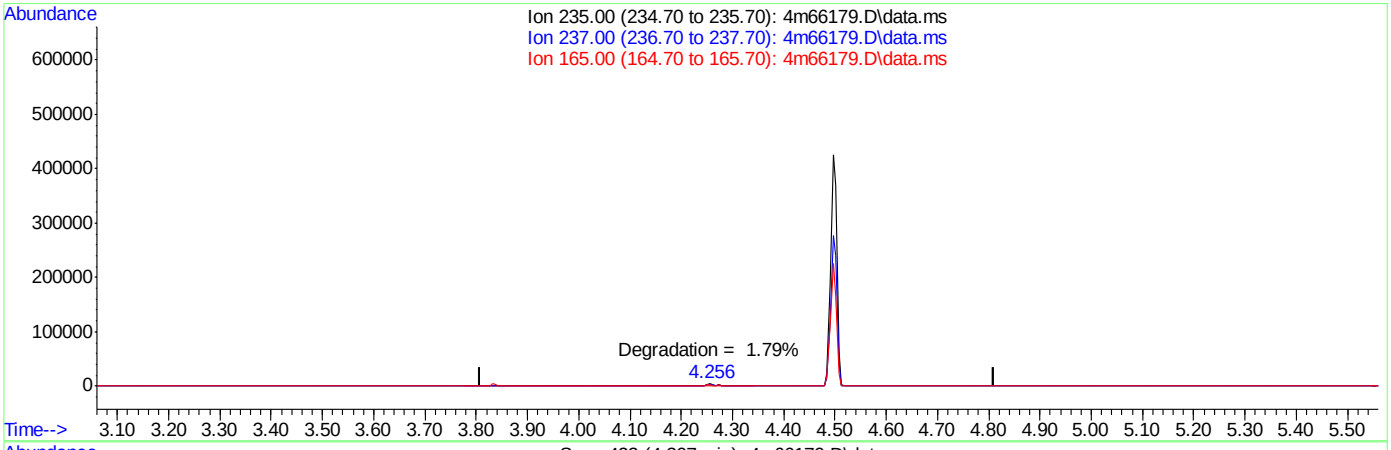
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

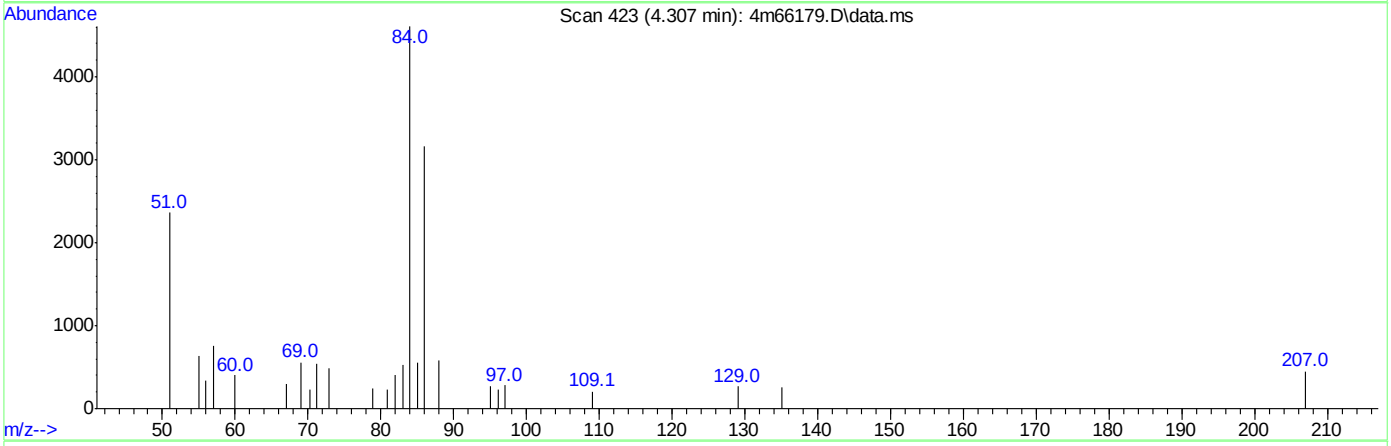
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66179.D
Acq On : 20 Jun 2016 10:06 pm
Operator : ashleyd
Sample : dftpp
Misc : op94799a,e4m2974
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 22:11:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66179.D\data.ms

(3) ddt (t)

4.310min (-4.310) 0.00ppb

response 0

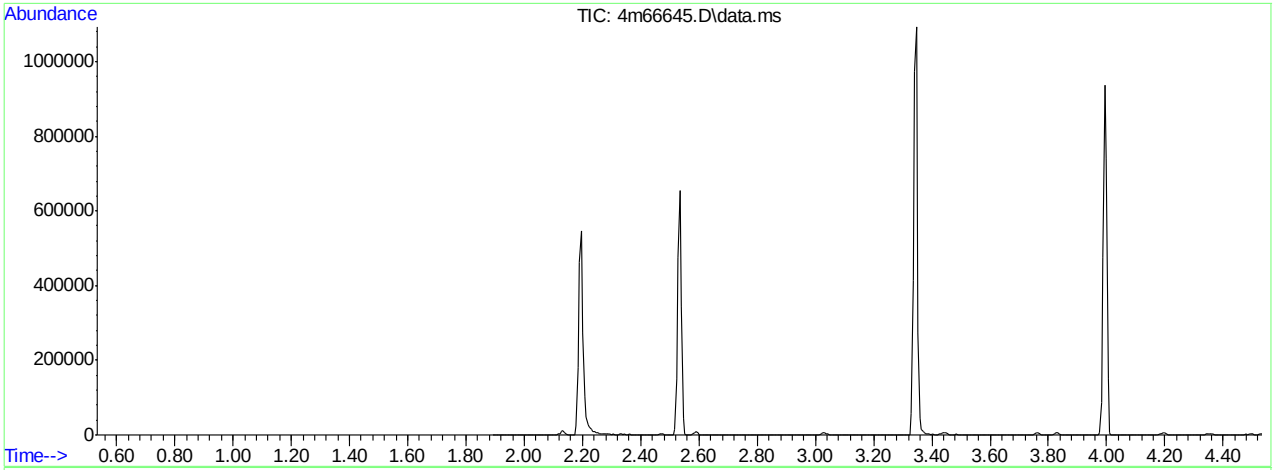
Ion	Exp%	Act%
235.00	100	0.00
237.00	63.70	0.00#
165.00	48.70	0.00#
0.00	0.00	0.00

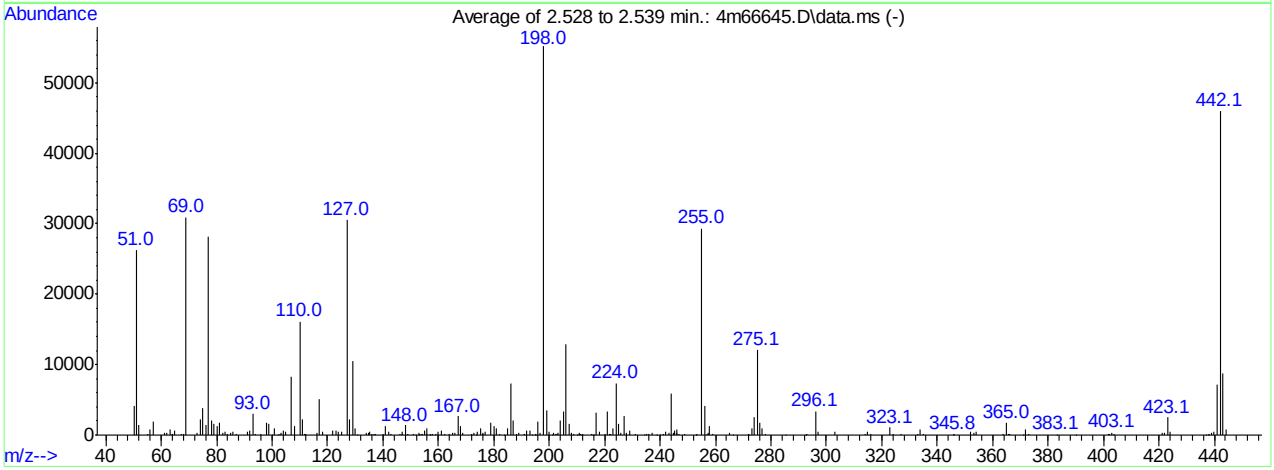
SGS ACCUTEST JC23443

DFTPP

Data File : C:\msdchem\1\DATA\E4M2998\4m66645.D Vial: 1
Acq On : 6 Jul 2016 10:10 pm Operator: JULIUSJ
Sample : dftpp Inst : GCMS4M
Misc : op95136a,e4m2998 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um





AutoFind: Scans 112, 113, 114; Background Corrected with Scan 107

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.6	26261	PASS
68	69	0.00	2	0.5	141	PASS
69	198	0.00	100	56.0	30910	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	55.4	30541	PASS
197	198	0.00	1	0.5	254	PASS
198	198	100	100	100.0	55160	PASS
199	198	5	9	6.3	3498	PASS
275	198	10	30	21.8	12020	PASS
365	198	1	100	3.1	1709	PASS
441	443	0.01	100	81.5	7191	PASS
442	198	40	100	83.5	46048	PASS
443	442	17	23	19.2	8824	PASS

4m66645.D DFTPP4M.M Thu Jul 07 08:43:15 2016 MANAGER

Average of 2.528 to 2.539 min.: 4m66645.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.05	4150	65.00	605	80.00	1302	94.05	195
51.05	26261	67.10	93	81.00	1788	96.05	181
52.05	1386	67.90	141	82.00	358	98.00	1816
55.10	209	69.00	30910	82.95	487	98.95	1673
56.00	821	72.95	350	83.90	146	100.00	71
57.00	1947	74.00	2157	84.95	360	100.95	927
61.00	273	75.00	3775	86.00	436	102.00	73
61.95	245	76.15	1383	87.05	237	102.80	162
63.00	878	77.10	28198	90.95	543	103.10	360
63.90	90	78.05	2050	92.00	608	104.00	582
64.10	87	79.00	1613	93.00	2958	104.95	458

Average of 2.528 to 2.539 min.: 4m66645.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
107.00	8286	123.95	466	136.70	114	150.90	195
108.00	1232	125.00	410	137.10	227	151.80	70
110.00	16138	127.00	30541	140.15	171	152.85	325
111.00	2257	128.05	2298	141.00	1315	153.10	77
111.90	228	129.00	10514	142.00	516	153.90	90
112.10	171	129.95	941	142.90	218	154.10	156
116.00	350	130.70	69	146.05	180	155.00	597
117.00	5042	133.90	367	146.80	428	155.70	138
118.00	429	134.90	280	147.10	189	156.00	945
121.95	634	135.05	480	148.00	1395	156.90	103
122.95	711	136.00	205	148.85	177	157.10	78

Average of 2.528 to 2.539 min.: 4m66645.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.90	111	172.05	180	182.05	138	194.00	72
158.90	91	172.95	308	183.90	83	195.00	134
160.05	482	173.60	72	185.05	950	195.20	74
160.95	606	174.05	445	186.00	7382	196.05	1973
162.10	95	175.05	978	187.05	2006	196.70	254
163.90	102	175.95	254	188.10	210	198.00	55160
165.00	290	176.20	171	188.95	262	198.95	3498
166.05	319	177.00	506	190.90	89	199.85	418
167.00	2657	178.95	1690	191.20	108	201.10	73
168.00	1200	180.00	1300	191.95	668	201.55	293
168.95	297	180.95	933	192.90	601	202.20	96

Average of 2.528 to 2.539 min.: 4m66645.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
202.60	101	211.20	217	222.10	131	235.90	123
202.95	400	211.50	69	222.95	890	237.00	297
204.00	2057	211.95	141	224.00	7346	238.90	70
205.00	3341	215.10	91	225.00	1525	240.00	84
206.05	12854	215.60	77	226.00	330	241.00	157
207.05	1657	216.00	75	227.05	2649	242.00	505
207.95	319	217.00	3265	228.00	359	243.15	379
209.00	153	217.95	493	228.95	660	244.10	5952
209.90	85	220.10	87	230.95	196	244.90	314
210.70	340	221.05	3274	234.10	80	245.10	636
210.90	233	221.80	232	234.95	156	245.90	304

Average of 2.528 to 2.539 min.: 4m66645.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
246.05	745	264.95	336	292.70	72	333.10	165
246.90	95	266.10	72	293.10	126	334.00	807
249.05	149	271.80	74	296.05	3353	335.00	187
253.00	68	272.10	96	296.95	534	345.80	108

M4M2974SIM.M Thu Jul 07 08:32:26 2016 MANAGER Page: 0

SGS ACCUTEST JC23443

253.20	169	273.05	1032	303.00	468	346.00	84
255.00	29312	274.05	2573	314.15	157	352.05	487
256.05	4188	275.05	12020	314.90	458	353.10	269
256.90	127	276.00	1762	315.90	156	354.10	454
257.20	314	276.95	1034	323.05	1081	363.80	97
257.95	1236	278.00	110	324.05	190	365.00	1709
258.95	157	285.10	81	327.00	196	365.90	197

Average of 2.528 to 2.539 min.: 4m66645.D\data.ms
dftpp
Modified:subtracted

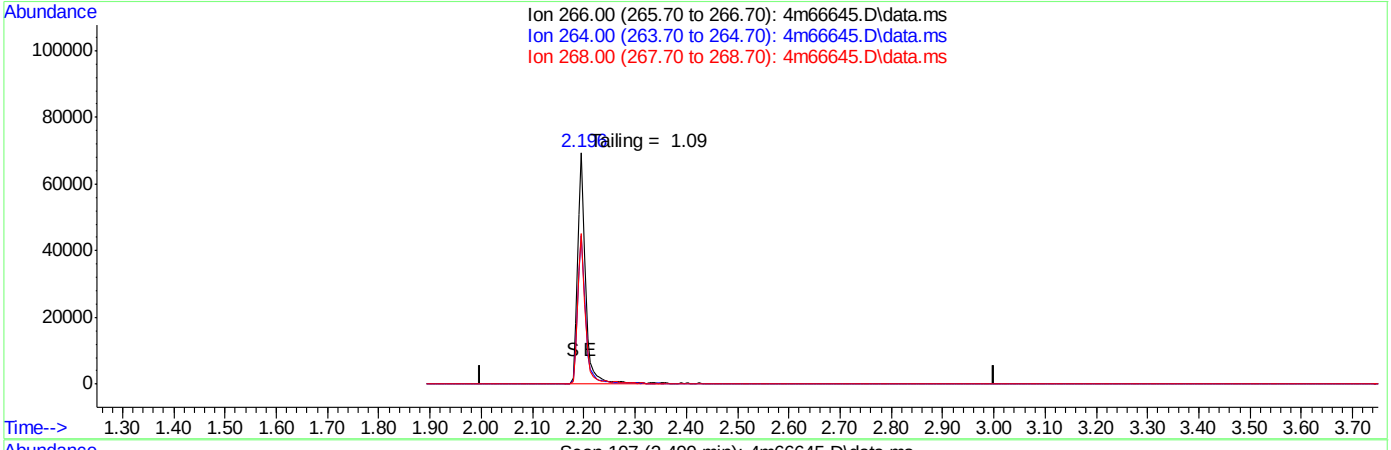
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
366.10	110	422.05	276	444.05	867		
371.00	82	423.05	2516				
372.00	779	423.95	553				
373.10	143	437.10	75				
383.10	84	437.90	69				
390.00	68	438.05	237				
401.90	191	439.05	276				
402.10	135	439.60	404				
403.05	321	441.05	7191				
403.80	93	442.10	46048				
421.00	370	443.05	8824				

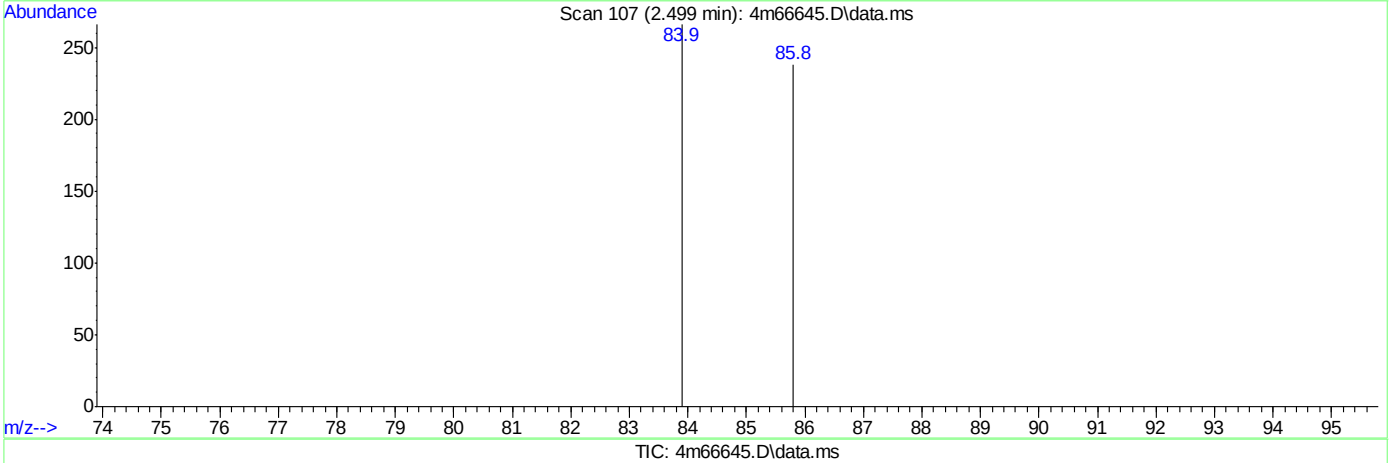
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2998\
Data File : 4m66645.D
Acq On : 6 Jul 2016 10:10 pm
Operator : JULIUSJ
Sample : dftpp
Misc : op95136a,e4m2998
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 22:16:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66645.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

response 0

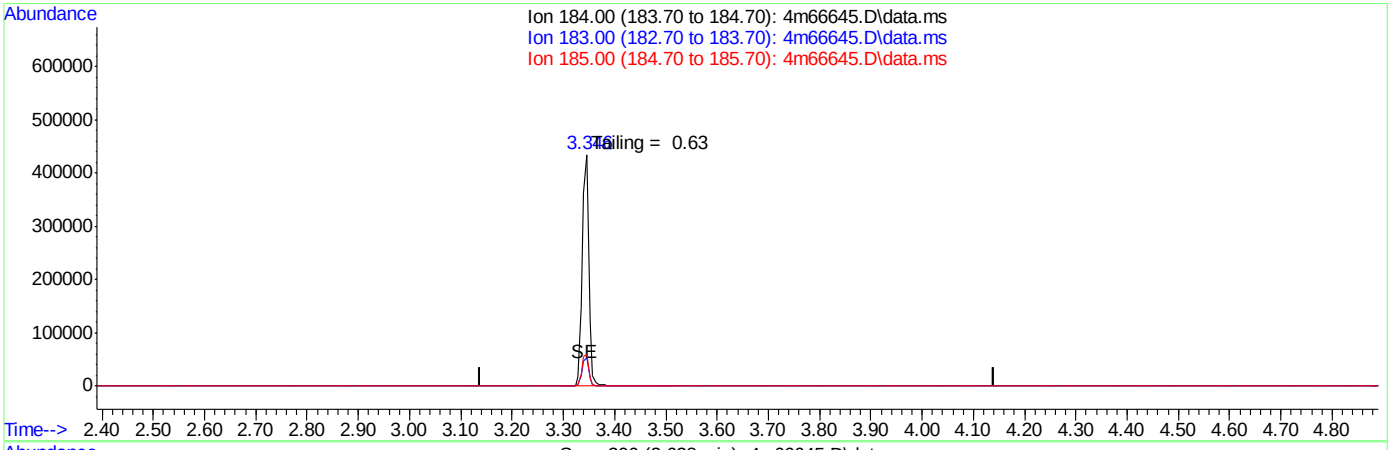
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

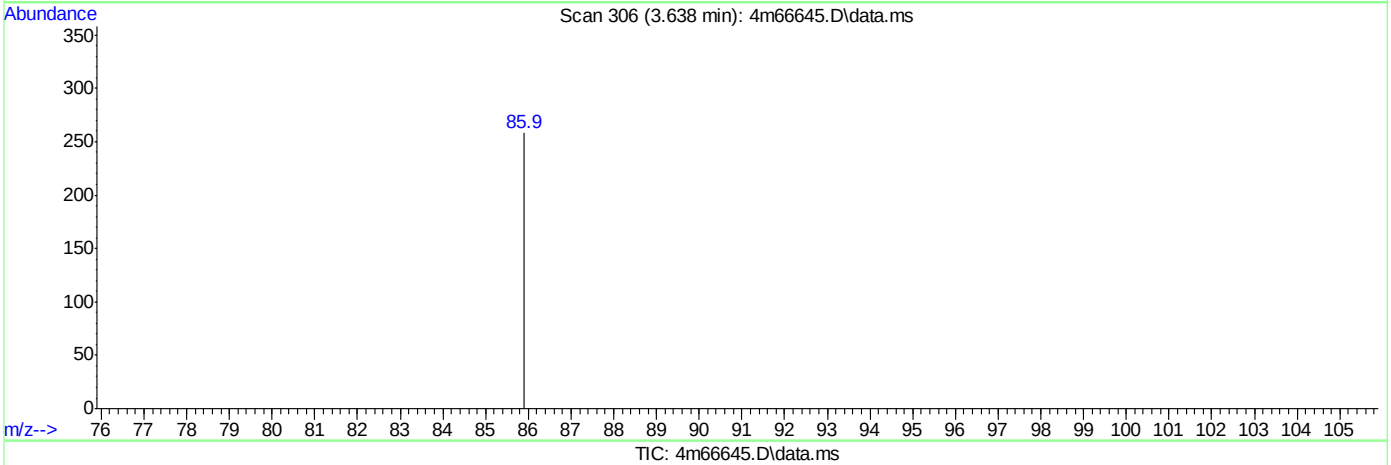
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2998\
Data File : 4m66645.D
Acq On : 6 Jul 2016 10:10 pm
Operator : JULIUSJ
Sample : dftpp
Misc : op95136a,e4m2998
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 22:16:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66645.D\data.ms

(2) benzidine (t)

3.640min (-3.640) 0.00ppb

response 0

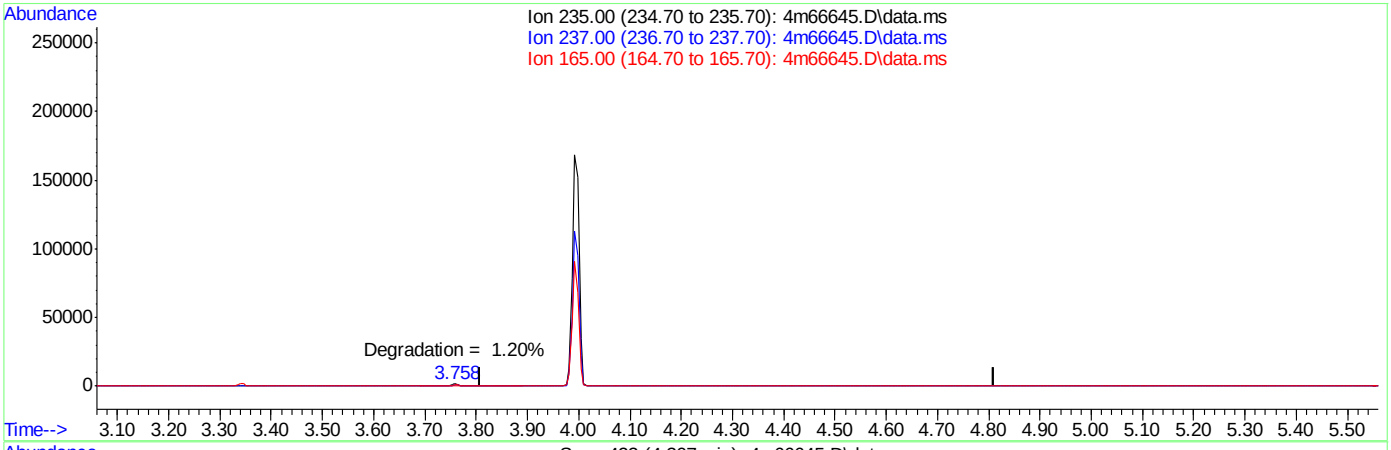
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

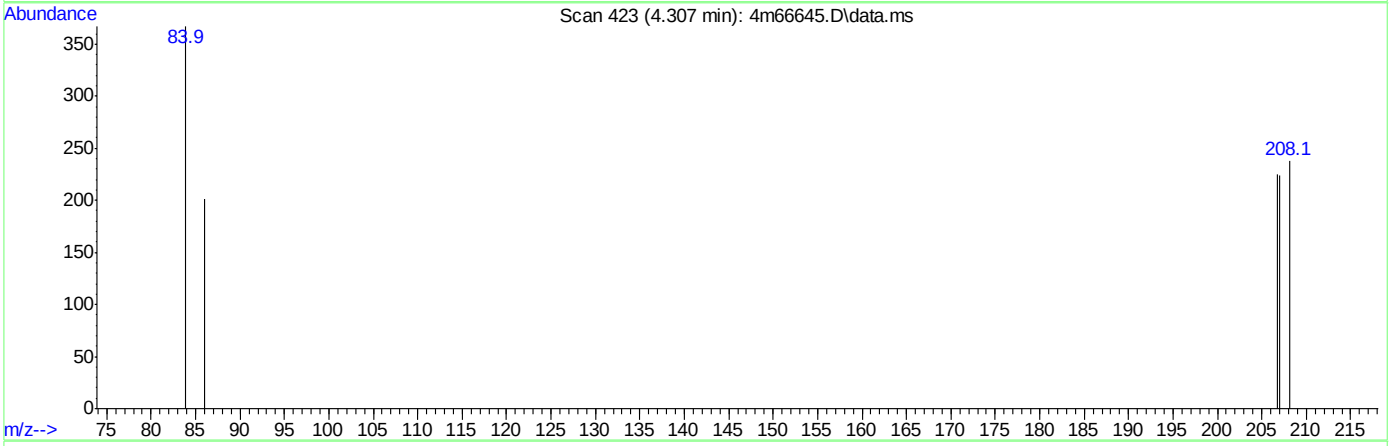
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2998\
Data File : 4m66645.D
Acq On : 6 Jul 2016 10:10 pm
Operator : JULIUSJ
Sample : dftpp
Misc : op95136a,e4m2998
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 06 22:16:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66645.D\data.ms

(3) ddt (t)

4.310min (-4.310) 0.00ppb

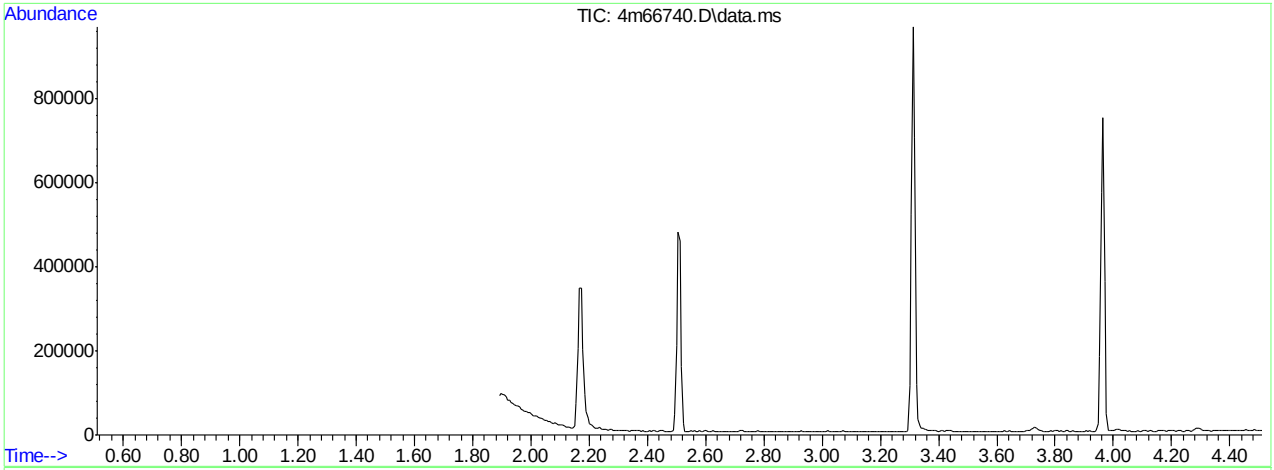
response 0

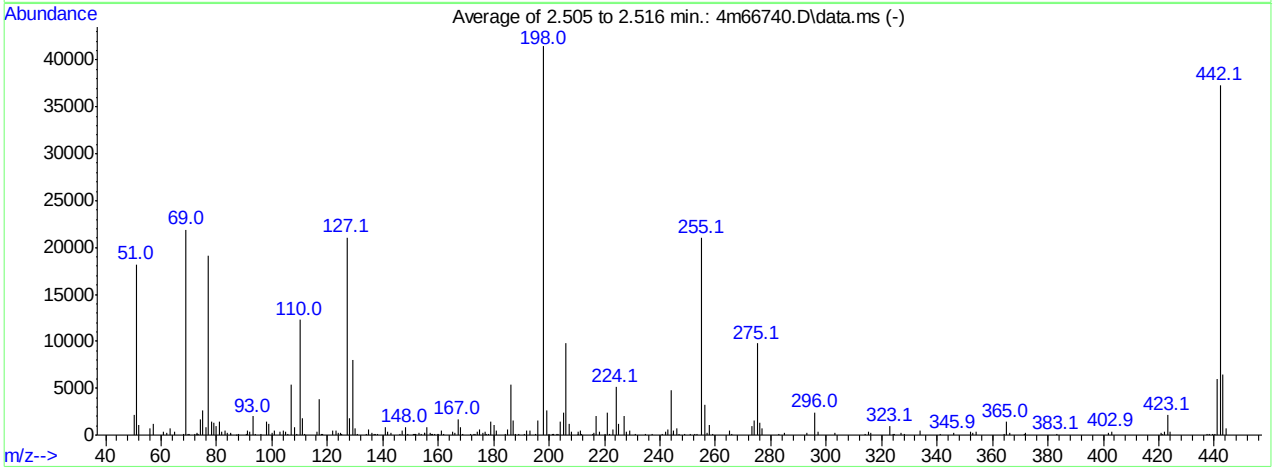
Ion	Exp%	Act%
235.00	100	0.00
237.00	63.70	0.00#
165.00	48.70	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E4M3003\4m66740.D Vial: 1
Acq On : 9 Jul 2016 12:13 pm Operator: ashleyd
Sample : dftpp Inst : GCMS4M
Misc : op95277a,e4m3003 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um





AutoFind: Scans 108, 109, 110; Background Corrected with Scan 102

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.0	18222	PASS
68	69	0.00	2	0.5	106	PASS
69	198	0.00	100	52.8	21903	PASS
70	69	0.00	2	0.3	68	PASS
127	198	40	60	50.9	21088	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	41445	PASS
199	198	5	9	6.3	2596	PASS
275	198	10	30	23.6	9785	PASS
365	198	1	100	3.4	1392	PASS
441	443	0.01	100	91.3	5934	PASS
442	198	40	100	90.1	37344	PASS
443	442	17	23	17.4	6496	PASS

4m66740.D DFTPP4M.M Sun Jul 10 12:10:55 2016 MANAGER

Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	2142	69.90	68	79.00	1323	91.05	452
51.00	18222	70.10	68	80.00	956	92.00	366
52.10	1135	72.10	77	80.95	1393	93.00	2032
56.00	687	72.85	190	81.95	407	94.00	75
57.00	1228	73.10	168	83.00	453	96.10	74
61.00	328	73.30	122	83.90	251	98.00	1418
62.10	251	74.05	1649	84.90	133	99.00	1147
63.05	683	75.00	2649	85.05	265	99.95	185
65.00	411	76.20	804	87.00	12	101.05	539
68.10	106	77.10	19191	87.80	127	103.00	395
69.00	21903	78.10	1444	90.70	103	103.95	493

Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.00	385	118.05	183	134.00	170	148.00	893
105.90	111	121.95	432	135.00	548	149.00	98
107.00	5344	122.95	480	136.10	249	151.00	112
108.00	813	123.90	258	136.90	160	151.50	95
108.90	176	124.90	230	137.10	151	151.80	99
110.00	12282	125.20	90	138.10	89	152.00	69
111.00	1755	127.05	21088	141.05	895	153.00	192
111.95	178	128.05	1790	141.85	312	153.95	179
116.10	367	129.00	7998	143.05	232	154.90	229
117.00	3808	130.00	735	146.00	86	155.10	246
117.80	75	130.80	74	147.05	504	156.00	830

Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.00	188	167.00	1726	177.30	97	190.90	164
157.30	89	168.05	894	178.00	95	191.95	468
157.70	112	168.95	163	179.00	1484	192.90	509
158.00	102	171.80	117	180.00	1128	195.20	96
158.90	93	173.00	69	181.00	514	196.00	1579
159.80	123	173.20	136	184.10	73	198.00	41445
160.10	105	174.15	338	185.15	657	199.00	2596
161.00	455	174.80	87	186.05	5410	200.00	149
162.00	101	175.05	572	187.05	1553	201.10	76
165.00	369	175.95	245	188.00	123	201.50	155
165.90	245	176.90	323	188.95	183	201.70	87

Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
202.90	133	215.70	118	227.90	350	245.95	707
203.10	176	216.10	243	228.95	465	246.90	94
204.10	1427	217.00	2061	231.00	149	248.90	93
205.10	2352	218.00	337	234.95	156	250.90	72
206.10	9846	220.00	80	237.20	74	252.50	76
207.10	1150	221.05	2417	241.00	81	253.40	135
207.90	408	221.70	153	242.00	338	255.05	21039
210.40	333	223.05	578	243.00	573	256.00	3212
210.60	71	224.10	5108	244.10	4763	257.10	193
211.10	489	225.10	1223	244.90	226	258.00	1077
211.50	79	227.05	2025	245.05	496	258.90	70

Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
264.95	521	297.00	399	341.10	68	402.00	248
265.80	84	302.95	292	345.90	222	402.95	402
273.05	914	314.10	79	352.05	342	420.95	184
274.05	1616	315.05	331	352.95	220	421.20	128

M4M2974SIM.M Sat Jul 09 12:52:09 2016 MANAGER Page: 0

275.10	9785	316.00	184	354.05	324	422.05	343
276.00	1363	323.05	1006	364.10	91	423.10	2129
277.00	736	324.00	138	365.00	1392	424.05	354
282.80	75	324.40	71	366.05	228	437.60	113
285.05	211	327.00	195	371.60	170	438.20	93
293.05	211	328.10	72	371.90	294	439.60	89
296.00	2413	334.05	530	383.10	67	440.10	169

Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
441.10	5934						
442.10	37344						
443.10	6496						
444.10	701						

7.5.8

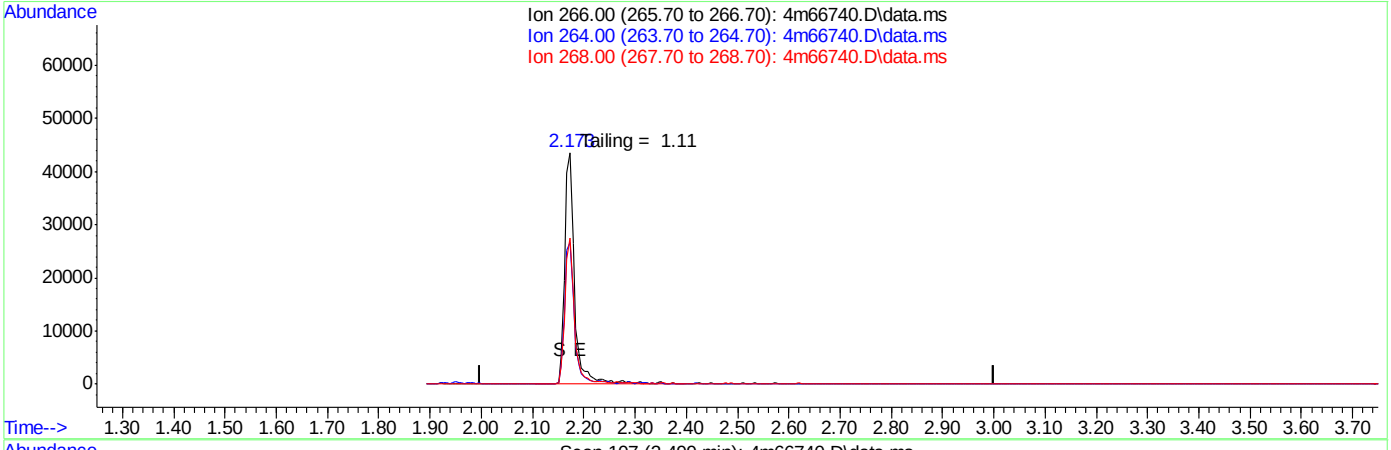
7

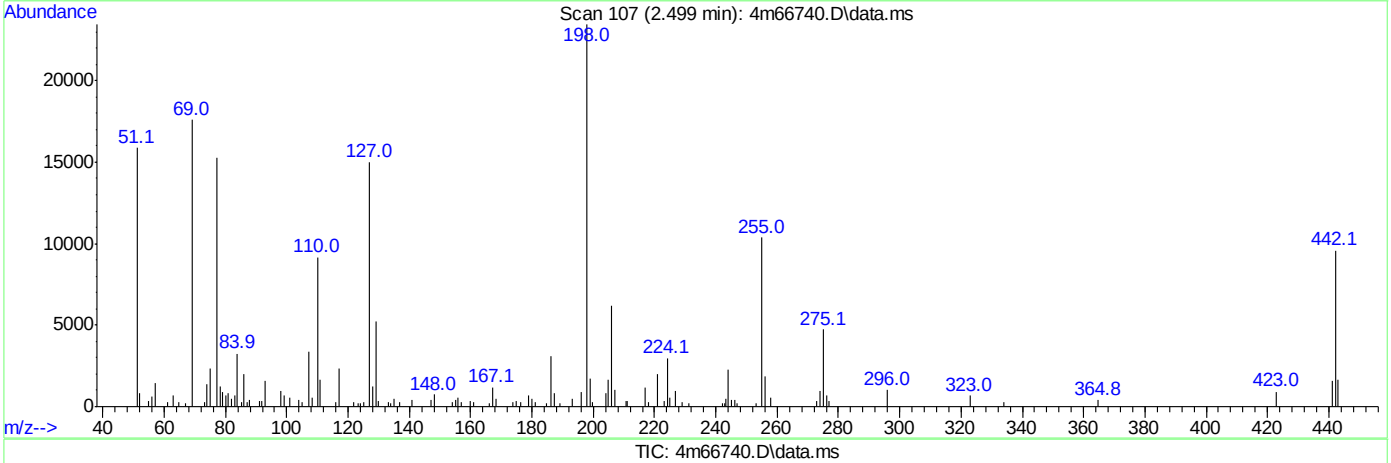
M4M2974SIM.M Sat Jul 09 12:52:09 2016 MANAGER Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66740.D
Acq On : 9 Jul 2016 12:13 pm
Operator : ashleyd
Sample : dftpp
Misc : op95277a,e4m3003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 09 12:18:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66740.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

response 0

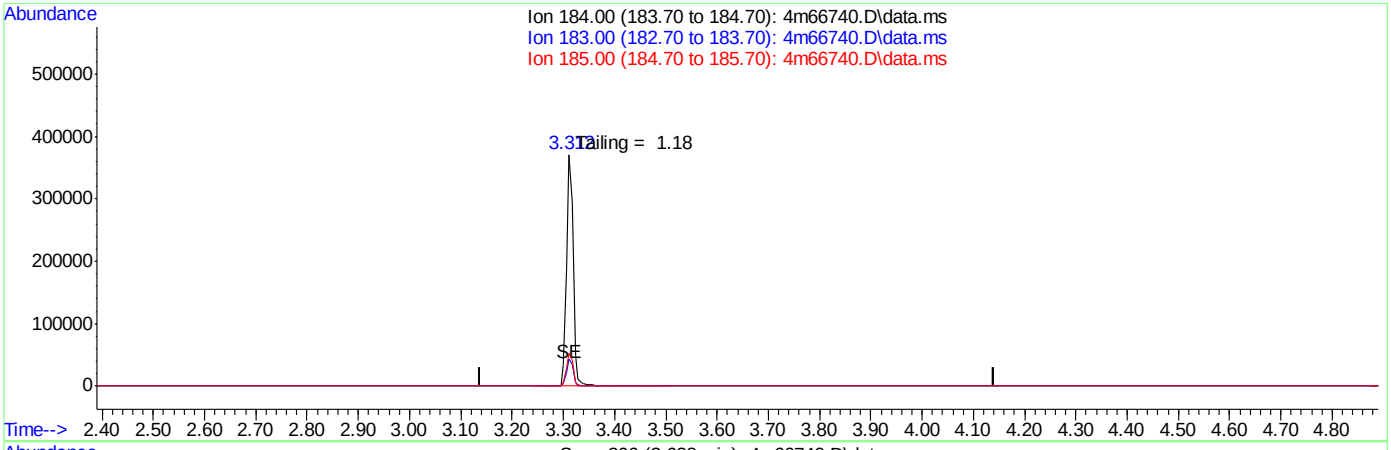
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

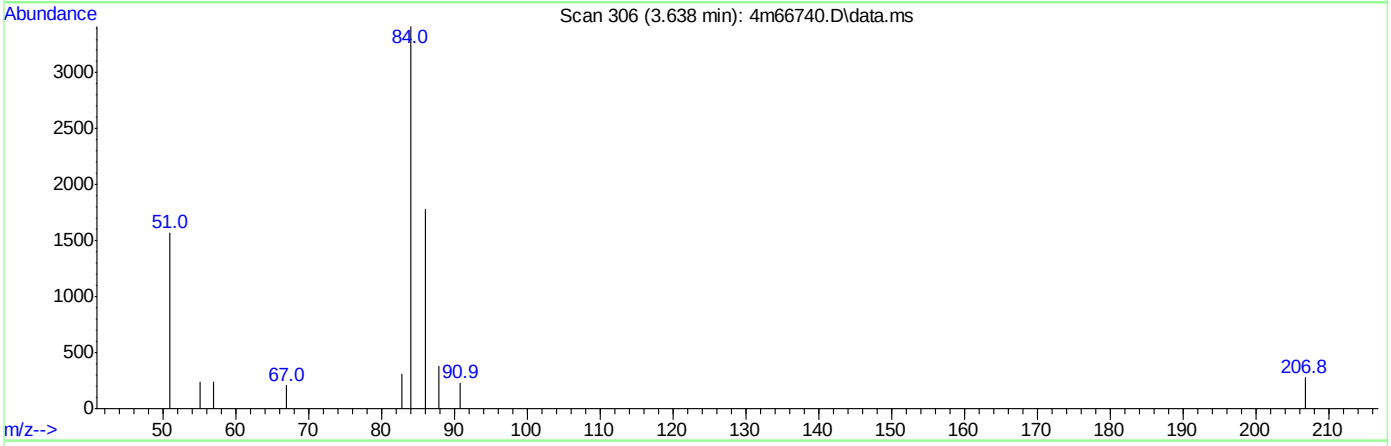
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66740.D
Acq On : 9 Jul 2016 12:13 pm
Operator : ashleyd
Sample : dftpp
Misc : op95277a,e4m3003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 09 12:18:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66740.D\data.ms

(2) benzidine (t)

3.640min (-3.640) 0.00ppb

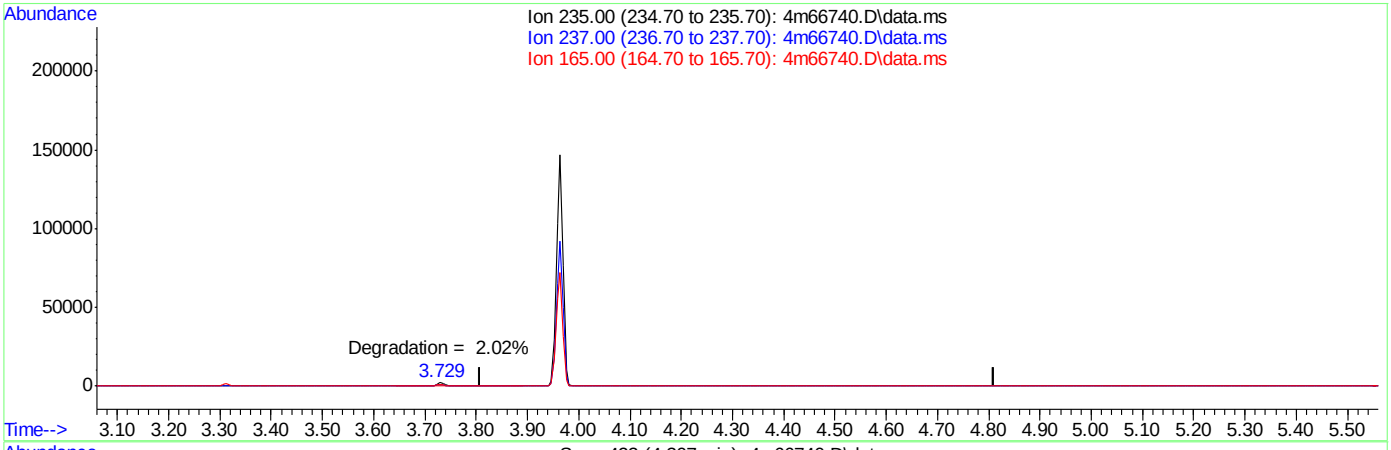
response 0

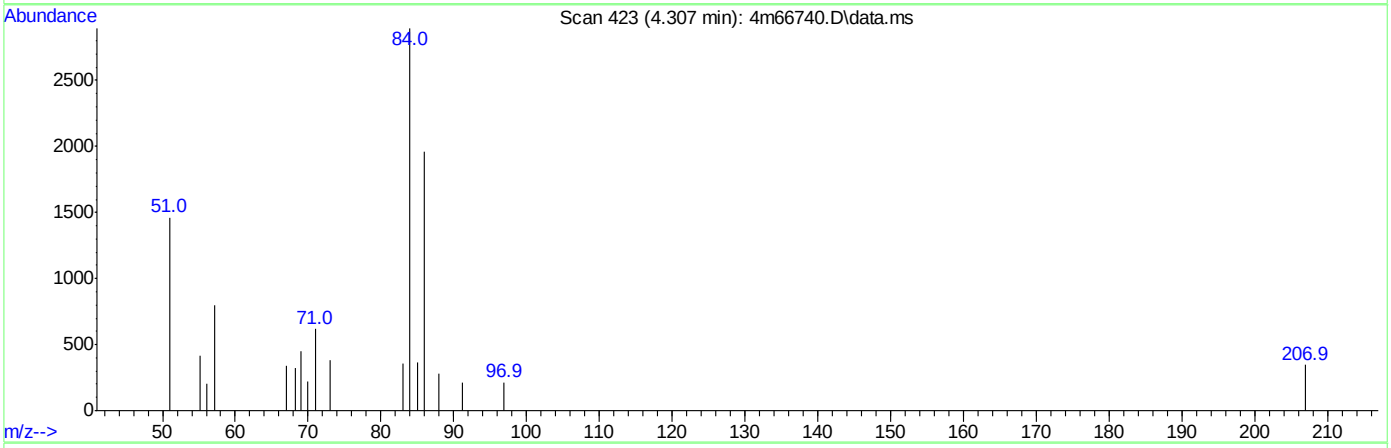
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66740.D
Acq On : 9 Jul 2016 12:13 pm
Operator : ashleyd
Sample : dftpp
Misc : op95277a,e4m3003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 09 12:18:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66740.D\data.ms

(3) ddt (t)

4.310min (-4.310) 0.00ppb

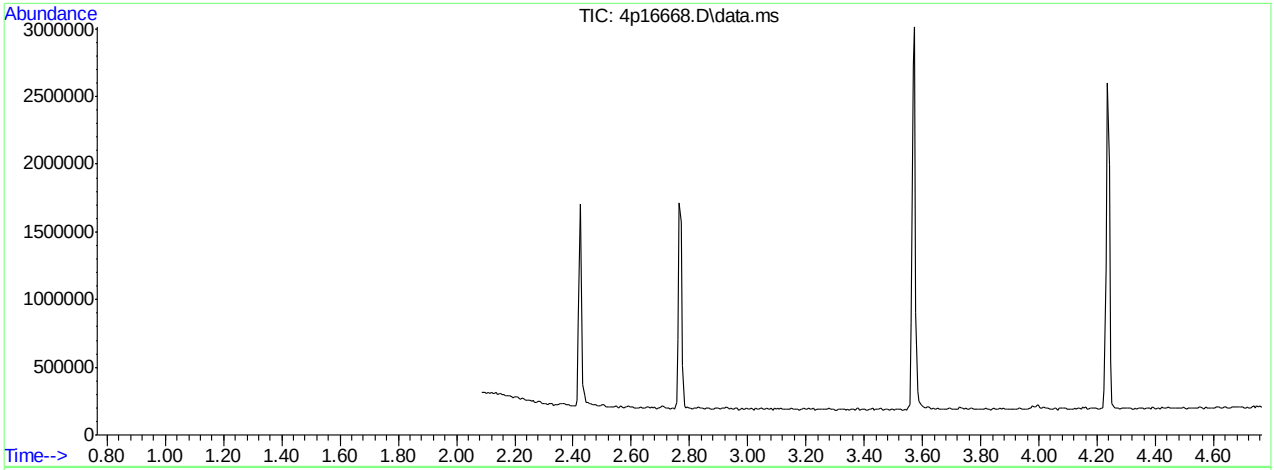
response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	63.70	0.00#
165.00	48.70	0.00#
0.00	0.00	0.00

DFTPPR

Data File : C:\msdchem\1\DATA\E4P887\4p16668.D Vial: 1
Acq On : 6 Jun 2016 9:57 am Operator: linseyk
Sample : dftpp Inst : MS4P
Misc : op94376a,e4p887 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS



AutoFind: Scans 127, 128, 129; Background Corrected with Scan 120

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.4	65770	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.9	75046	PASS
70	69	0.00	2	0.5	350	PASS
127	198	40	60	52.8	74929	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	141872	PASS
199	198	5	9	6.6	9305	PASS
275	198	10	30	18.4	26127	PASS
365	198	1	100	1.7	2425	PASS
441	443	0.10	100	83.1	12236	PASS
442	198	40	100	55.8	79101	PASS
443	442	17	23	18.6	14730	PASS

4p16668.D DFTPP4P.M Mon Jun 06 14:51:51 2016

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	351	49.00	197	58.15	153	66.15	504
38.15	1264	50.05	16136	58.70	118	67.10	207
39.05	5055	51.10	65770	59.80	108	69.00	75046
40.10	148	52.15	3110	61.05	942	70.05	350
41.05	827	52.90	182	61.50	223	71.15	173
42.05	298	53.10	158	62.05	1042	72.20	68
43.05	140	53.80	122	63.05	2754	74.00	5844
45.00	255	55.10	93	63.80	92	75.05	9909
47.00	653	56.00	2297	64.10	84	76.05	624
47.90	985	57.05	4622	64.30	325	77.05	78430
48.15	2188	57.90	110	65.10	1544	78.05	5567

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.00	4179	91.05	858	102.10	458	112.10	1175
80.05	3529	92.10	207	102.40	95	113.05	30
81.05	5031	93.00	6570	103.00	506	113.85	91
82.10	1935	93.90	129	103.80	428	115.10	68
84.00	96	94.15	415	104.00	1539	115.40	169
86.00	210	94.70	104	105.00	2139	116.00	1194
86.90	629	96.00	62	106.00	535	117.05	9969
87.20	274	98.05	4681	107.10	18596	117.95	521
87.90	779	99.05	4664	108.05	3344	118.60	139
88.90	294	99.95	394	110.00	42712	119.00	229
89.65	46	101.05	3011	111.05	5838	119.20	237

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.70	202	127.10	74929	136.00	670	143.00	598
119.80	68	128.05	6043	136.30	179	143.85	78
120.30	39	129.00	25782	136.60	247	144.40	423
121.10	224	129.85	226	137.00	552	145.20	325
121.50	186	130.10	1771	137.15	514	145.60	180
122.05	935	130.50	132	138.15	18	146.15	563
123.05	2041	131.10	260	139.10	40	146.40	138
124.05	902	131.95	482	139.70	137	147.05	1253
124.55	67	132.95	181	139.95	318	148.00	2710
125.00	559	134.20	672	140.95	3255	148.90	288
125.25	268	135.00	2196	142.05	940	149.20	335

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
149.90	105	158.20	77	165.80	254	171.40	294
150.20	28	159.15	815	166.10	682	172.00	618
150.90	206	159.80	169	167.05	5466	172.70	236
151.15	309	160.05	818	167.85	371	173.15	503
152.80	183	161.05	1633	168.05	2426	173.55	58
153.05	789	161.95	546	169.05	529	174.05	1342
153.90	972	162.60	124	169.50	212	175.05	2072
155.10	1560	162.80	21	169.80	97	175.70	65
156.15	2146	163.15	103	170.15	301	176.15	846
157.20	1176	163.90	182	170.40	118	176.70	143
157.90	283	165.05	1244	170.90	58	177.00	1099

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
179.00	4118	189.05	1199	200.05	776	207.70	293
180.10	2878	190.10	110	200.80	198	208.10	306
181.05	1129	191.05	1150	201.30	100	208.50	187
181.90	180	192.05	1801	201.55	1117	209.10	694

182.10	321	193.05	1480	202.85	157	209.70	202
182.95	374	194.10	299	203.20	1120	210.10	111
184.00	728	194.40	143	204.10	4273	210.40	10
185.15	2439	195.05	419	204.90	913	210.65	563
186.05	17084	196.10	4921	205.10	6099	211.10	1079
187.05	5715	198.00	141872	206.10	32564	211.80	162
188.20	246	199.00	9305	207.10	4159	212.30	256

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.50	84	224.10	16208	231.90	122	238.05	150
214.60	80	225.05	4199	232.20	183	238.60	92
215.05	472	225.95	500	232.85	192	239.20	52
216.20	143	227.10	5201	233.30	81	240.05	206
217.05	6301	227.70	83	233.75	182	240.35	242
218.05	1178	228.10	884	234.00	144	240.80	110
219.20	89	228.90	800	234.95	284	241.00	143
219.85	631	229.10	428	235.25	290	241.60	221
221.05	7389	230.20	156	236.15	493	242.15	1164
222.15	1170	230.80	152	237.00	623	242.80	283
223.00	1045	231.25	676	237.80	89	244.05	11461

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
245.00	324	251.25	42	259.00	602	265.90	280
245.15	1665	251.60	20	259.80	136	266.10	61
246.05	1821	251.80	194	260.10	171	266.40	188
246.70	71	252.30	65	260.90	41	266.90	106
247.05	414	252.60	89	261.25	187	267.70	29
247.90	155	252.80	433	261.70	159	268.00	105
248.40	128	253.30	796	262.15	261	268.30	24
248.95	414	255.05	54641	262.65	8	268.70	2
249.50	75	256.05	7982	263.30	22	269.10	41
250.00	214	257.05	891	263.95	443	269.60	52
250.80	567	258.05	2428	265.00	984	270.10	130

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
270.60	22	279.85	194	286.55	78	296.05	5334
270.80	87	280.45	97	288.85	125	296.70	56
271.10	371	281.40	247	289.20	11	296.95	174
271.70	172	281.60	97	289.75	147	297.20	228
273.15	2417	282.10	82	291.10	234	297.60	138
274.05	5207	282.60	126	291.70	79	298.10	190
275.10	26127	283.05	203	292.10	49	298.75	67
276.10	3217	283.80	48	292.50	142	300.80	136
276.95	1344	285.00	256	293.05	438	301.20	69
278.00	134	285.80	73	294.05	52	302.20	102
279.00	80	286.00	36	294.50	91	303.10	863

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
304.15	214	311.05	128	316.85	87	325.40	145
305.05	100	311.30	49	317.40	50	326.90	262
305.30	33	311.70	73	317.80	163	327.35	132
305.80	17	312.05	116	319.10	52	328.05	417
306.05	79	312.60	35	319.95	74	328.90	93
306.90	18	313.00	37	320.70	38	329.20	39
307.80	94	313.30	40	320.95	292	329.80	64
308.10	137	314.05	222	323.10	2361	330.00	71
308.90	132	314.50	47	324.15	128	330.30	126
310.00	72	314.80	254	324.60	42	331.00	60
310.20	193	316.10	511	324.80	76	331.90	348

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
332.95	231	342.20	140	350.65	75	357.00	20
334.00	1382	342.40	48	351.75	246	357.25	116
335.10	277	342.70	41	352.10	468	357.80	26
336.40	157	343.75	84	352.95	288	359.70	57
337.10	75	345.20	53	353.10	479	360.10	60
338.30	208	345.95	471	353.40	87	360.50	224
339.15	180	346.70	96	354.00	779	362.20	39
339.80	129	347.80	164	354.70	53	363.15	280
340.50	39	348.30	74	355.15	133	363.90	91
340.80	133	349.40	58	356.10	65	365.00	2425
341.30	107	350.10	217	356.75	137	365.70	59

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.95	77	372.90	78	379.45	96	387.80	137
367.05	378	373.50	59	379.95	42	388.10	42
367.60	52	373.70	53	380.80	25	388.30	79
368.10	155	374.00	83	382.70	72	388.60	70
369.00	148	374.20	21	382.95	202	389.30	49
369.70	20	374.70	44	383.85	98	389.95	23
370.30	60	375.45	80	384.60	34	390.80	68
371.10	287	376.05	84	385.70	55	391.05	96
371.70	142	376.50	18	386.20	97	391.65	169
372.10	704	376.80	48	386.70	34	392.85	86
372.50	37	379.00	26	387.20	60	393.80	3

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
394.20	23	402.10	372	408.10	91	416.80	167
395.35	66	403.05	547	409.05	18	417.10	53
396.00	24	403.70	34	409.85	100	417.60	48
396.90	30	404.20	53	410.70	47	418.55	106
397.75	66	404.40	155	411.20	82	419.30	106
398.50	69	405.15	81	412.30	80	419.50	120
398.75	122	405.90	64	413.00	161	420.50	120
399.55	86	406.20	62	413.30	52	420.80	532
399.80	96	407.10	25	413.80	60	421.20	155
400.80	91	407.35	138	414.65	90	421.50	84
401.70	164	407.80	76	416.30	24	422.05	187

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
422.40	177	429.40	109	434.50	187	443.80	99
423.05	4167	430.15	374	435.15	135	444.05	1291
424.10	1032	430.55	28	436.10	219	444.30	114
424.90	33	430.90	34	436.55	194	445.15	164
425.15	4	431.20	186	437.50	313	446.00	42
425.70	41	431.60	60	437.80	116	446.45	126
427.10	139	432.30	215	438.25	183	447.10	55
428.00	128	432.50	229	438.85	329	447.40	58
428.35	205	433.10	199	441.05	12236	447.80	69
428.70	70	433.30	154	442.10	79101	448.00	47
429.10	2	433.60	259	443.05	14730	448.30	85

Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
448.95	58	461.45	146	470.25	42	479.60	104
449.20	31	462.05	56	470.85	35	479.80	36
451.00	17	464.00	34	471.40	9	481.10	37
452.60	82	464.60	26	471.70	62	481.80	138
453.20	26	464.85	69	473.65	100	482.40	102

453.45	9	465.35	72	474.60	50	482.65	49
453.80	68	465.90	70	475.40	67	483.85	177
454.90	22	466.20	33	476.30	74	484.60	102
458.80	61	467.70	86	477.40	61	485.90	22
459.30	52	468.50	3	478.20	33	486.10	64
459.70	21	469.35	120	478.40	104	487.25	66

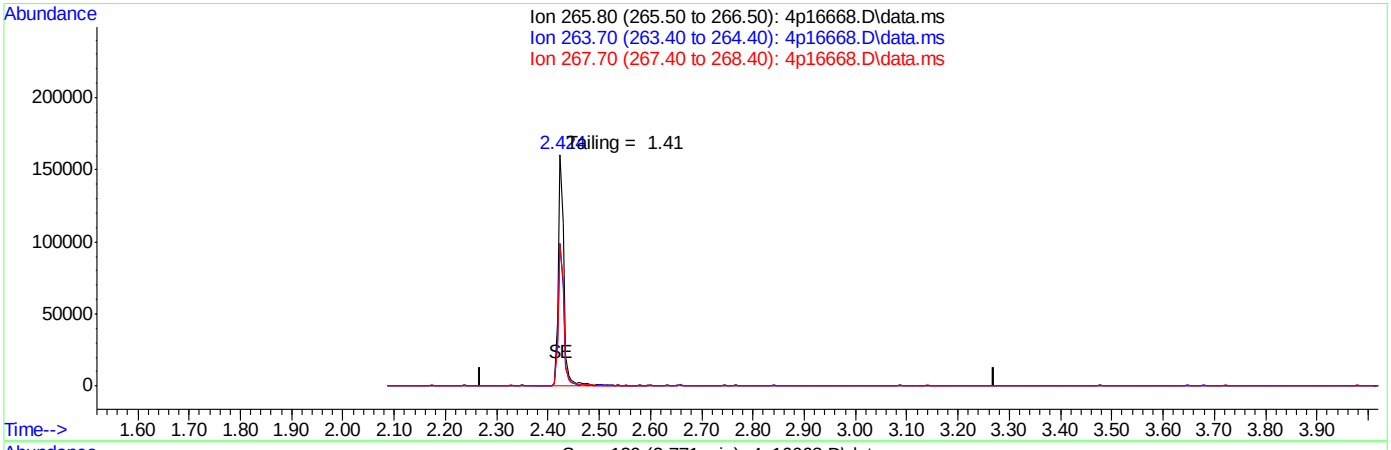
Average of 2.761 to 2.771 min.: 4p16668.D\data.ms
dftpp
Modified:subtracted

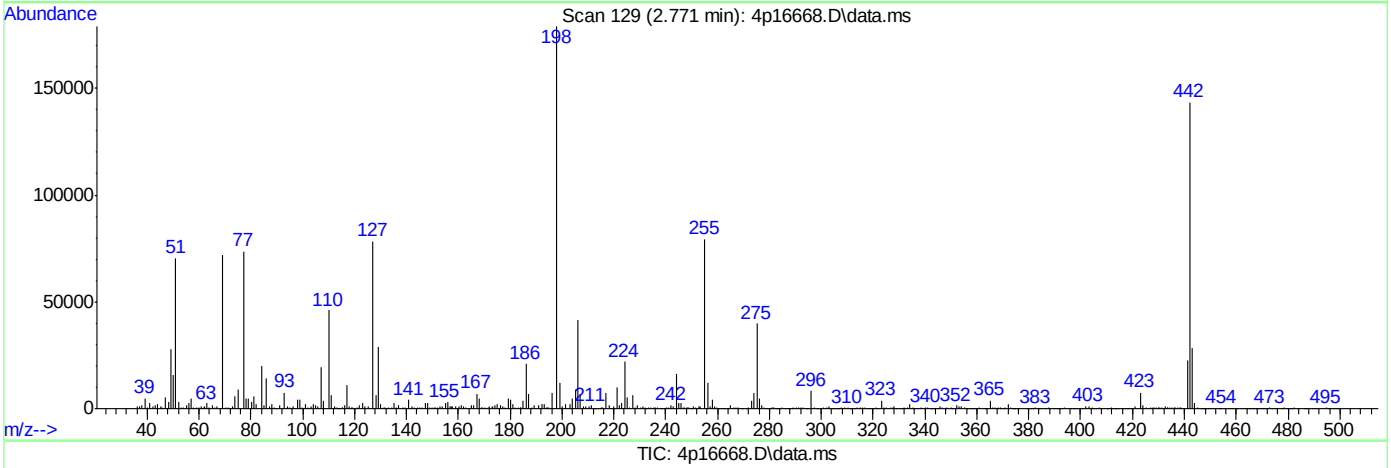
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
487.85	18	499.40	32				
489.15	63	499.80	103				
489.40	27						
490.15	89						
490.80	21						
492.90	94						
494.70	102						
495.45	32						
495.80	37						
496.10	59						
497.55	48						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16668.D
Acq On : 6 Jun 2016 9:57 am
Operator : linseyk
Sample : dftpp
Misc : op94376a,e4p887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 10:03:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p16668.D\data.ms

(1) Pentachlorophenol (MC)

2.770min (-2.770) 0.00ng

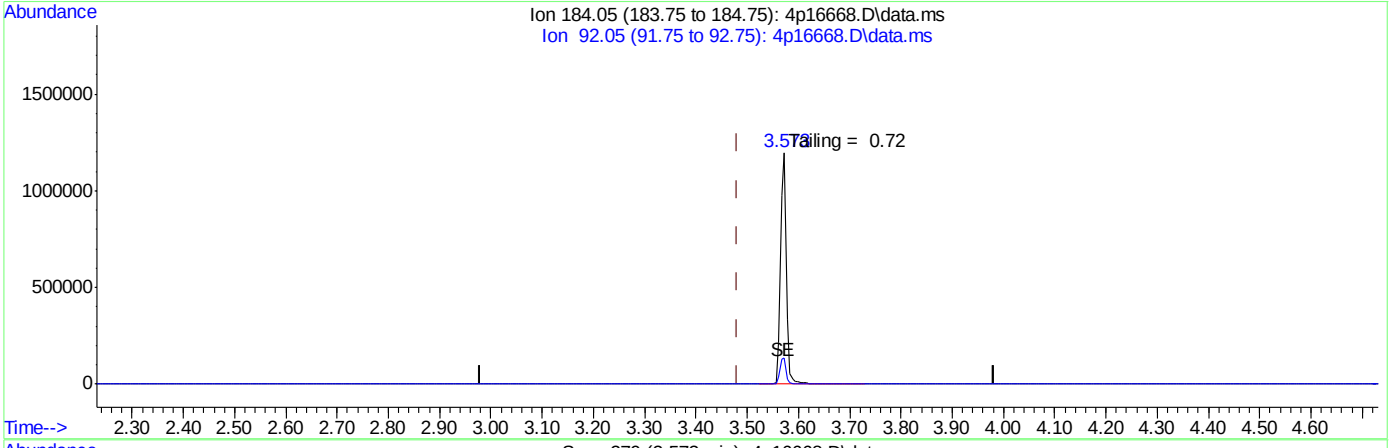
response 0

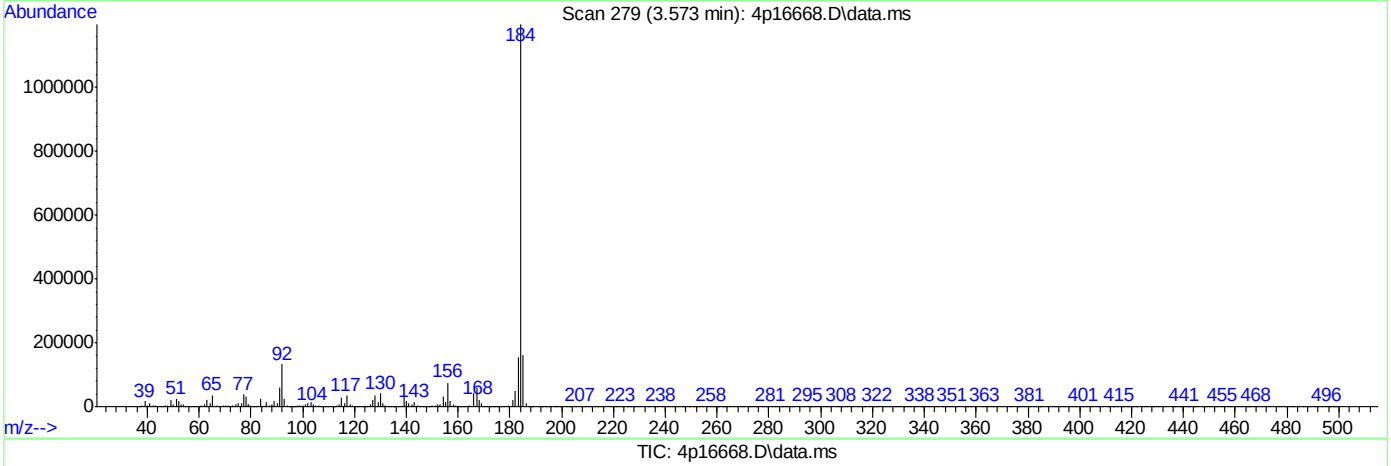
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16668.D
Acq On : 6 Jun 2016 9:57 am
Operator : linseyk
Sample : dftpp
Misc : op94376a,e4p887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 10:03:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p16668.D\data.ms

(2) Benzidine (M)

3.573min (+0.091) 199.02ng

response 926851

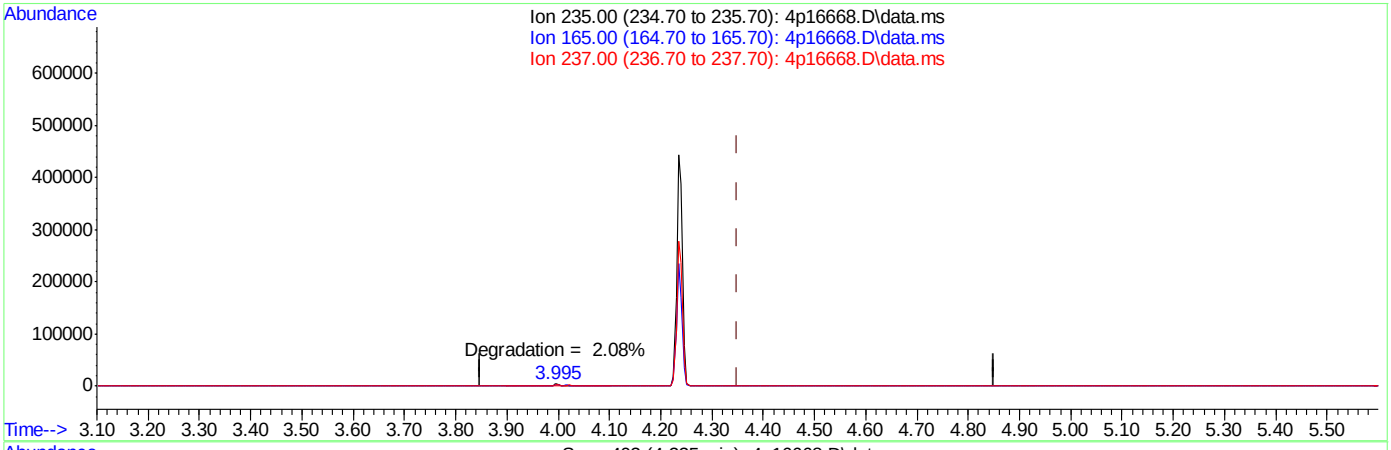
Ion	Exp%	Act%
184.05	100	100
92.05	11.10	11.08
0.00	0.00	0.00
0.00	0.00	0.00

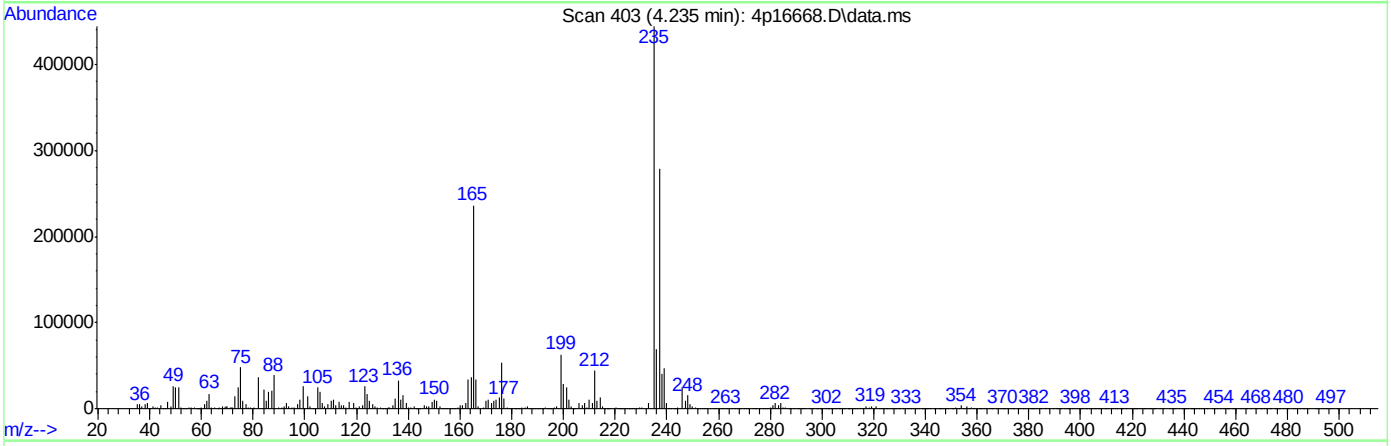
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16668.D
Acq On : 6 Jun 2016 9:57 am
Operator : linseyk
Sample : dftpp
Misc : op94376a,e4p887
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 10:03:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p16668.D\data.ms

(3) PP-DDT (MC)

4.235min (-0.115) 189.42ppb

response 354185

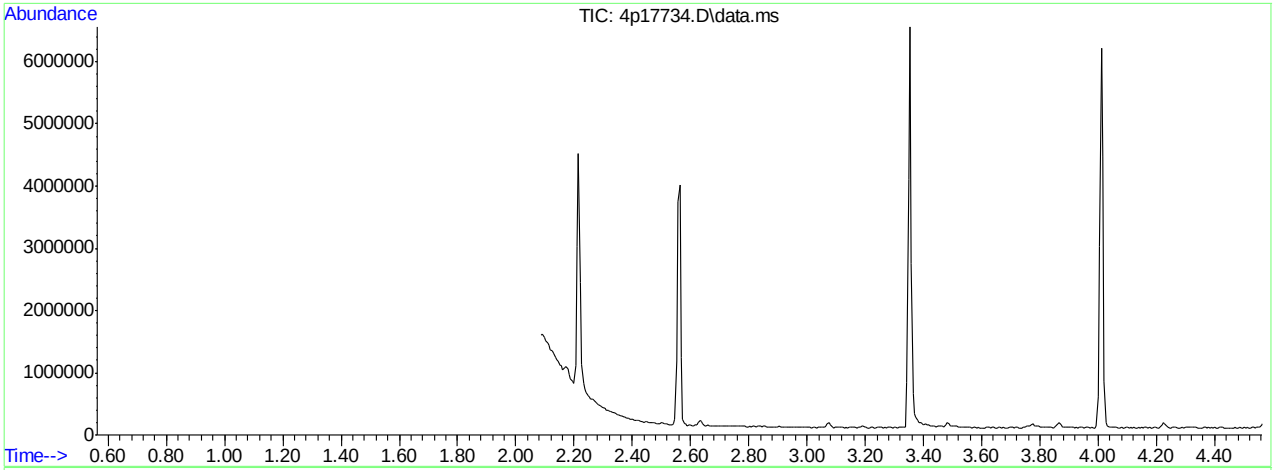
Ion	Exp%	Act%
235.00	100	100
165.00	58.00	52.95
237.00	62.20	62.67
0.00	0.00	0.00

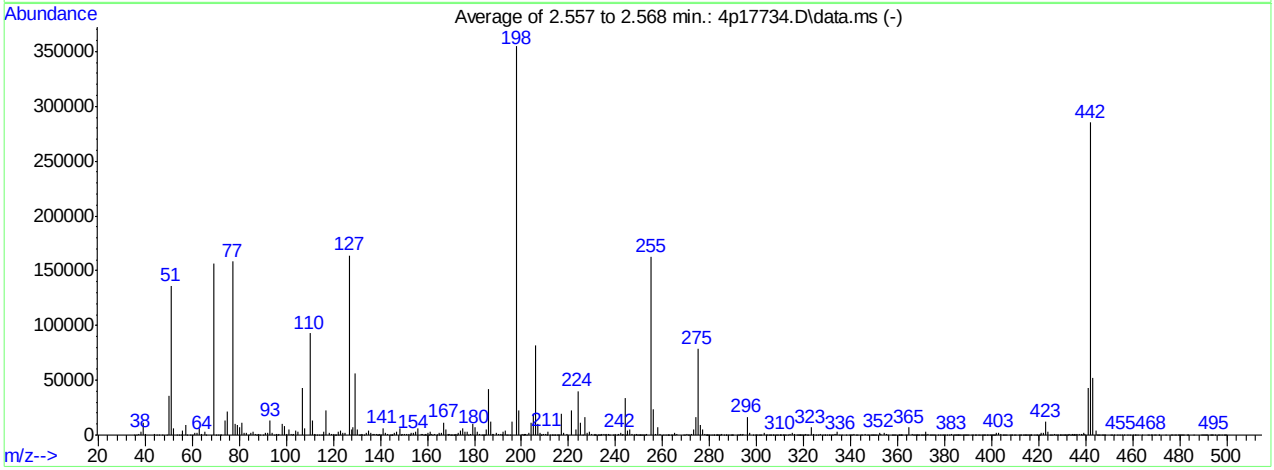
SGS ACCUTEST JC23443

DFTPPR

Data File : C:\msdchem\1\DATA\E4P944\4p17734.D Vial: 1
Acq On : 12 Jul 2016 12:05 pm Operator: ashleyd
Sample : dftpp Inst : MS4P
Misc : op95217a,e4p944 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS





AutoFind: Scans 89, 90, 91; Background Corrected with Scan 82

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.3	135686	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.1	156326	PASS
70	69	0.00	2	0.3	416	PASS
127	198	40	60	46.3	164058	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	354666	PASS
199	198	5	9	6.4	22578	PASS
275	198	10	30	22.2	78629	PASS
365	198	1	100	2.0	7157	PASS
441	443	0.10	100	83.2	43352	PASS
442	198	40	100	80.5	285426	PASS
443	442	17	23	18.3	52117	PASS

4p17734.D DFTPP4P.M Tue Jul 12 14:59:54 2016

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	136	50.10	35513	61.05	2101	74.10	12915
36.25	364	51.05	135686	61.95	1988	75.05	21139
37.20	601	52.10	6674	63.05	5753	77.10	158555
38.10	2663	53.50	149	64.10	929	78.10	10617
39.05	10912	54.20	172	65.20	3556	79.00	9134
39.95	1012	55.10	297	66.00	439	80.05	7538
44.00	784	56.00	3953	69.00	156326	81.05	11790
44.80	337	57.10	9672	70.15	416	82.05	2475
45.95	151	57.95	11	71.05	176	83.10	1965
47.00	310	59.15	255	71.85	309	83.95	231
49.30	426	59.95	485	72.15	63	85.05	2116

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.00	2714	95.05	318	103.95	4028	115.40	424
86.95	1219	96.05	1146	105.05	2920	116.10	2722
87.20	414	96.30	461	107.00	43055	117.00	22822
87.70	106	97.00	781	108.00	6548	118.15	1766
88.00	887	98.05	10410	110.05	92904	119.15	750
88.90	435	99.05	8627	111.00	13171	120.15	818
90.10	146	100.15	1121	111.95	1393	120.70	118
91.05	1722	101.00	5153	112.15	149	121.30	175
92.10	2582	101.95	546	112.95	387	121.90	213
93.05	13299	102.70	105	114.10	68	122.15	2601
93.95	1769	103.10	1359	114.80	219	123.00	3975

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.15	2188	133.05	295	140.00	129	148.80	347
125.10	2384	134.10	1870	141.05	6589	149.10	1031
127.05	164058	135.00	4344	142.10	2567	150.00	841
128.00	5516	136.05	1596	143.10	1500	151.15	964
128.20	6966	136.95	764	144.10	245	151.95	751
129.05	56730	137.20	961	144.30	90	152.40	278
130.00	4650	138.05	544	144.90	88	153.10	2212
130.90	149	138.80	150	145.15	151	154.05	1641
131.30	163	139.00	130	146.15	1627	155.05	3314
132.10	894	139.30	82	147.00	2914	156.10	6176
132.30	234	139.70	675	148.10	5988	157.15	1159

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
158.05	1061	163.80	197	170.10	163	177.00	2878
158.40	42	164.05	98	170.40	311	177.25	109
158.70	271	164.95	1871	170.95	371	178.10	1014
159.05	607	165.20	108	171.20	218	179.05	9911
159.30	97	166.10	2131	171.80	497	180.05	7021
160.10	2029	167.10	11578	172.10	609	181.10	3596
160.80	167	167.95	5387	172.40	270	182.25	887
161.05	3261	168.70	255	173.05	1593	183.05	454
161.80	1170	169.00	580	174.10	3849	183.70	59
162.20	348	169.20	613	175.15	6212	183.95	514
163.05	703	169.80	188	176.10	2767	184.40	204

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.05	5005	193.10	3816	201.70	1330	210.10	1368
186.10	41973	193.80	384	202.20	495	210.60	466
187.05	12587	194.10	288	203.30	2449	211.10	3598
187.80	919	195.15	475	204.15	11613	212.05	261

188.10	734	196.10	12821	205.10	19256	213.00	495
189.10	1731	198.00	354666	206.10	81757	213.30	246
190.05	672	199.00	22578	207.10	10599	213.90	316
191.10	1446	200.15	1250	208.10	2554	214.20	187
191.50	494	200.80	369	208.30	356	215.05	268
191.90	236	201.10	151	208.50	325	215.50	234
192.10	2614	201.40	1423	209.10	753	216.10	340

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
217.10	19610	230.00	626	235.05	981	242.70	272
218.05	2469	230.80	108	235.70	139	243.00	969
219.30	682	231.10	930	236.15	737	244.10	33687
221.10	22640	231.40	453	236.75	1	244.80	100
223.15	5543	231.90	258	237.05	1501	245.10	4486
224.05	40081	232.50	163	237.60	93	246.10	5293
225.05	10804	232.90	94	238.75	168	247.05	1238
225.85	462	233.15	309	239.95	734	247.80	214
227.05	16064	233.50	128	240.80	462	248.00	262
228.05	1867	233.75	9	241.25	1181	248.80	124
229.00	3320	234.10	1309	242.10	2561	249.05	1457

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
249.30	302	256.05	23587	265.00	2107	275.10	78629
249.90	173	257.05	1326	265.30	268	276.00	9426
250.20	437	258.10	7143	266.00	735	277.00	5103
250.35	387	259.10	1156	269.00	40	277.95	847
251.00	427	260.10	149	269.20	44	278.25	35
251.20	53	261.15	322	270.10	597	278.70	48
251.60	39	262.00	197	270.75	505	279.00	71
252.20	240	262.40	128	271.20	367	279.50	106
252.75	332	262.60	106	272.25	898	280.10	21
253.35	1503	263.60	108	273.15	5648	281.00	413
255.10	162608	264.05	121	274.10	16214	281.70	160

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
282.00	87	288.10	122	296.05	16526	304.15	195
282.50	194	288.95	270	297.05	2346	305.00	19
283.00	320	289.20	111	298.30	303	305.60	107
283.30	328	289.55	105	299.60	34	306.10	137
283.50	327	290.05	329	299.85	217	306.90	49
283.95	334	291.60	257	300.10	34	307.15	164
284.65	336	292.05	330	301.00	75	307.80	319
285.00	1071	292.70	220	301.30	1	308.60	124
286.15	91	293.10	1052	301.95	502	308.95	176
286.80	90	293.70	157	303.05	2304	309.80	85
287.10	92	294.15	623	303.95	498	310.00	376

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
310.60	122	317.90	44	324.10	993	332.20	249
311.10	34	318.50	50	325.00	263	333.05	855
311.25	107	318.70	80	326.00	170	333.80	635
311.80	85	319.05	256	326.95	1222	334.10	2996
312.15	126	319.60	140	328.05	356	335.20	301
313.00	271	319.90	88	329.00	93	336.00	218
314.05	1426	320.25	120	329.20	165	337.80	189
315.05	2422	321.05	678	329.85	156	339.50	47
316.05	1276	321.30	257	330.65	54	340.00	436
316.90	109	322.05	369	331.10	58	340.20	46
317.60	151	323.05	7081	331.60	120	341.15	942

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
342.10	224	350.50	101	360.25	71	366.90	18
342.95	68	350.95	263	360.60	64	367.60	171
344.30	84	352.10	2184	360.80	28	367.90	141
344.50	22	353.00	1415	361.30	467	368.15	85
346.05	1474	354.10	2112	361.50	66	368.70	77
347.05	338	355.00	793	362.00	330	368.95	68
347.40	104	355.90	34	363.10	238	370.05	364
348.30	197	357.45	210	363.75	465	370.60	73
349.20	117	357.95	36	364.95	7157	370.90	497
349.70	167	358.50	58	366.00	1367	371.40	352
350.05	222	359.10	231	366.50	143	371.70	468

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
372.10	3052	380.00	39	386.70	41	394.05	82
373.05	1190	381.00	49	387.40	23	394.80	48
374.00	264	381.80	73	388.30	29	395.85	41
374.35	8	383.00	926	388.60	124	396.20	40
374.80	44	383.80	112	389.20	140	396.55	128
375.20	168	384.05	81	389.50	44	397.15	107
375.80	107	384.90	198	390.20	540	398.00	176
377.30	33	385.15	59	391.25	330	398.20	42
378.05	279	385.70	58	392.10	260	399.00	142
379.15	153	385.90	73	393.00	34	399.60	110
379.65	143	386.30	95	393.45	100	399.90	50

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
400.40	128	407.90	81	414.95	243	421.05	1859
400.80	97	408.75	197	415.40	63	422.05	2388
401.50	371	409.30	22	415.70	10	423.10	11942
402.05	1605	410.20	181	416.20	301	424.05	2897
403.05	2232	411.40	46	416.65	58	425.00	61
404.05	1190	411.70	98	416.90	76	425.30	47
404.70	83	412.45	91	418.10	125	425.70	269
405.15	185	413.25	180	418.90	129	426.50	592
405.70	64	413.70	20	419.20	60	427.10	108
406.15	123	414.20	207	420.00	153	427.80	325
407.70	18	414.50	35	420.30	242	428.35	296

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
428.90	239	433.50	21	437.90	358	446.70	36
429.10	39	433.80	82	438.20	678	447.15	49
429.50	86	434.10	665	438.90	1658	447.65	60
429.80	121	434.40	449	439.55	719	448.30	13
430.60	321	434.70	154	441.10	43352	450.45	284
430.85	52	434.90	222	442.10	285426	451.20	91
431.20	152	435.20	754	443.10	52117	451.75	80
431.45	437	435.45	114	444.10	4619	453.30	138
431.95	152	435.90	291	444.90	47	454.30	17
432.20	212	436.25	975	445.40	77	455.10	140
432.90	649	437.05	954	445.70	106	456.30	76

Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
457.80	22	469.15	187	480.10	23	491.10	41
458.70	33	469.70	29	480.70	51	491.70	76
460.10	143	470.80	52	481.10	27	492.85	63
460.80	28	471.20	26	481.65	55	493.40	34
461.10	39	473.95	138	483.15	71	493.60	57

461.90	128	476.20	39	483.50	45	494.00	100
464.00	71	476.90	88	485.95	109	494.65	229
466.30	117	477.50	44	489.10	75	496.40	124
466.55	122	477.95	21	489.70	155	496.65	149
467.70	36	478.90	58	490.30	70	497.65	21
468.10	224	479.65	68	490.65	127	498.45	22

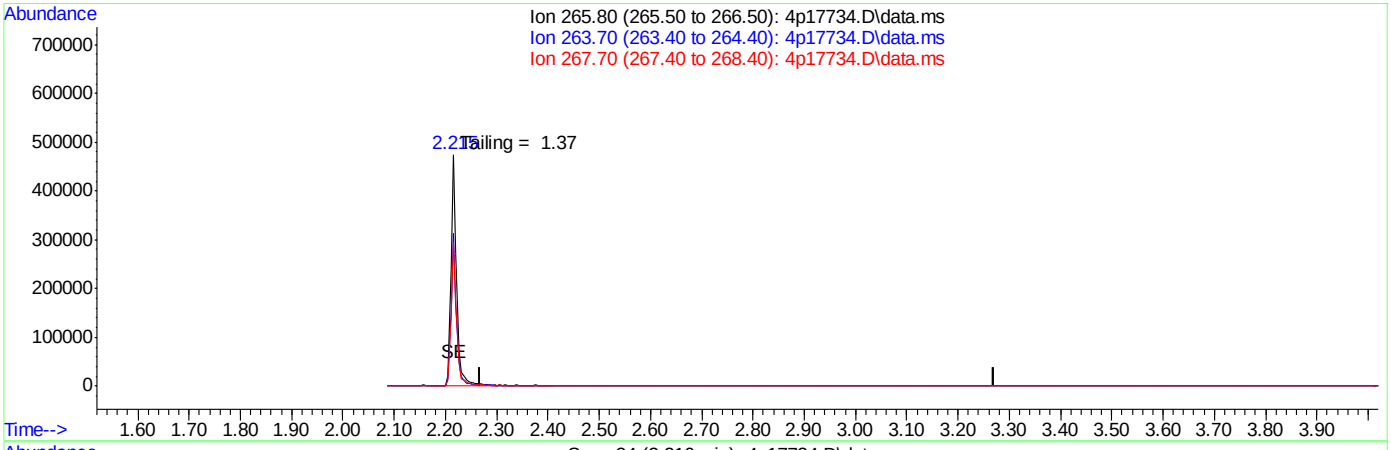
Average of 2.557 to 2.568 min.: 4p17734.D\data.ms
dftpp
Modified:subtracted

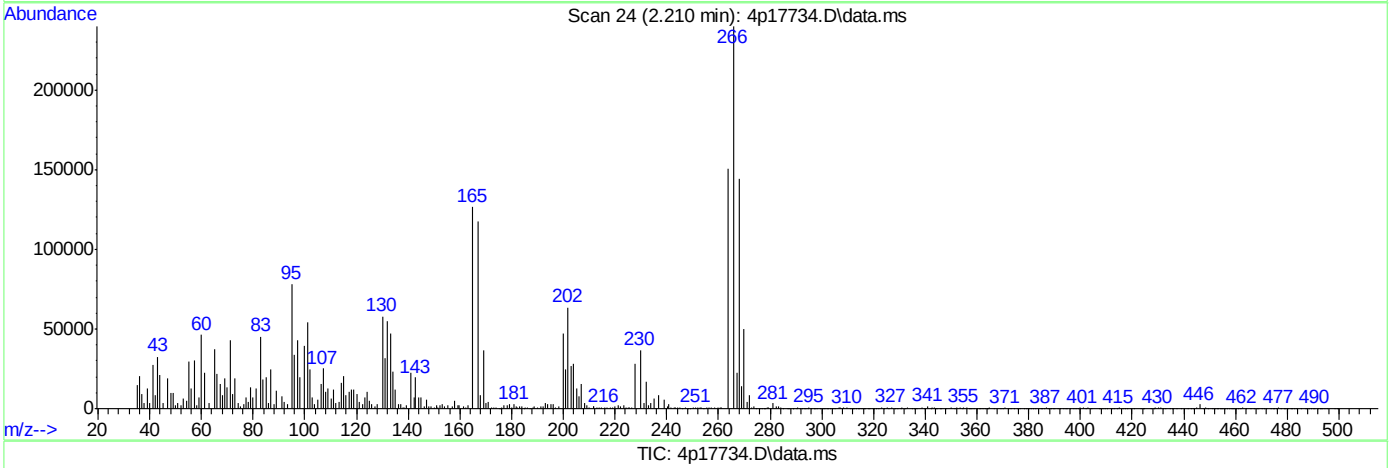
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
498.95	86						
499.45	43						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P944\
Data File : 4p17734.D
Acq On : 12 Jul 2016 12:05 pm
Operator : ashleyd
Sample : dftpp
Misc : op95217a,e4p944
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 12:11:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





(1) Pentachlorophenol (MC)

2.770min 0.00ng d

response 0

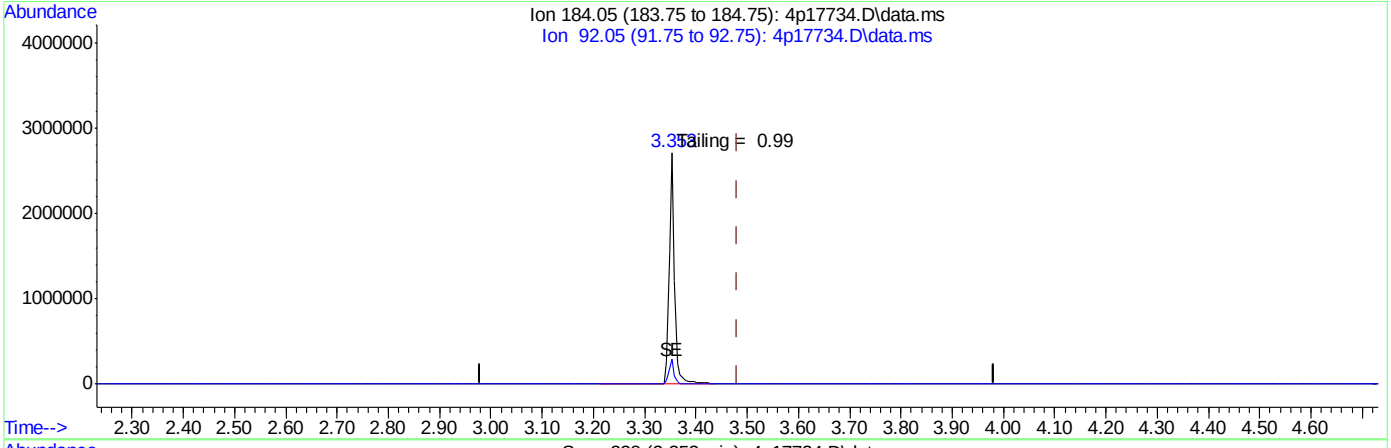
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00
267.70	64.60	0.00
0.00	0.00	0.00

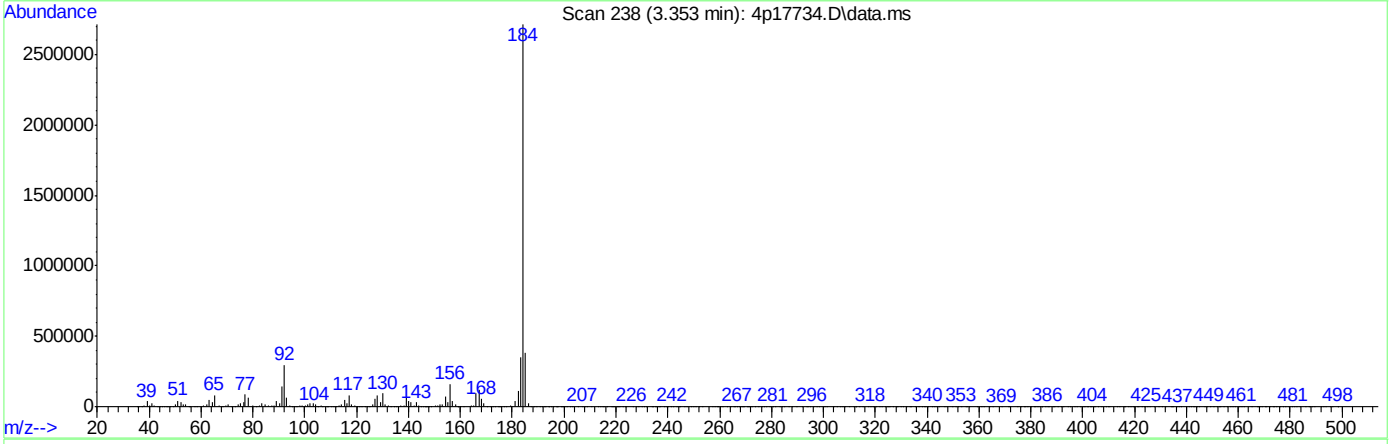
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P944\
Data File : 4p17734.D
Acq On : 12 Jul 2016 12:05 pm
Operator : ashleyd
Sample : dftpp
Misc : op95217a,e4p944
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 12:11:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p17734.D\data.ms

(2) Benzidine (M)

3.353min (-0.128) 446.05ng

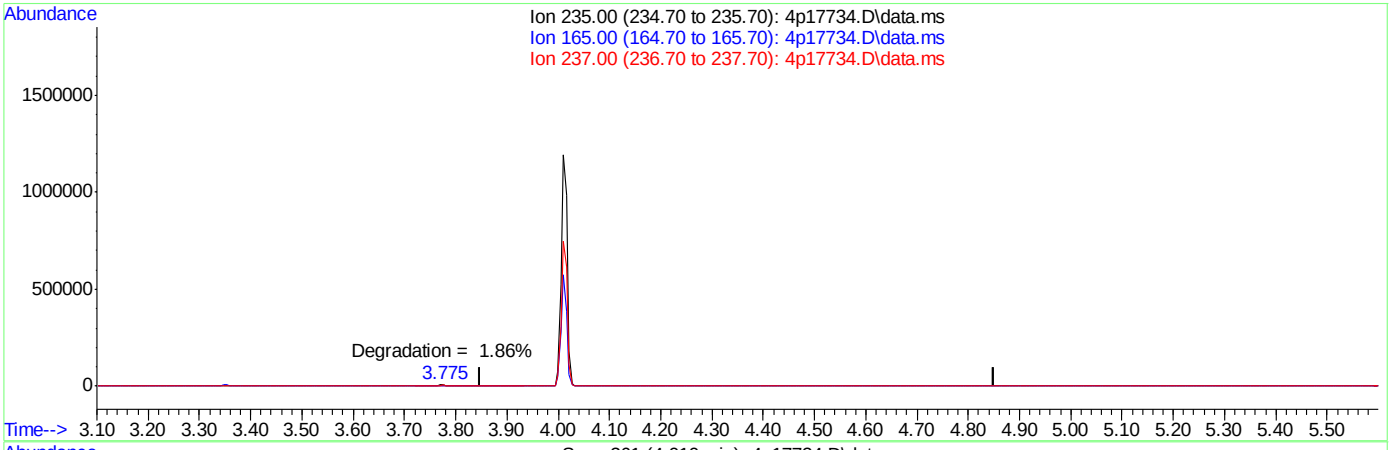
response 2077270

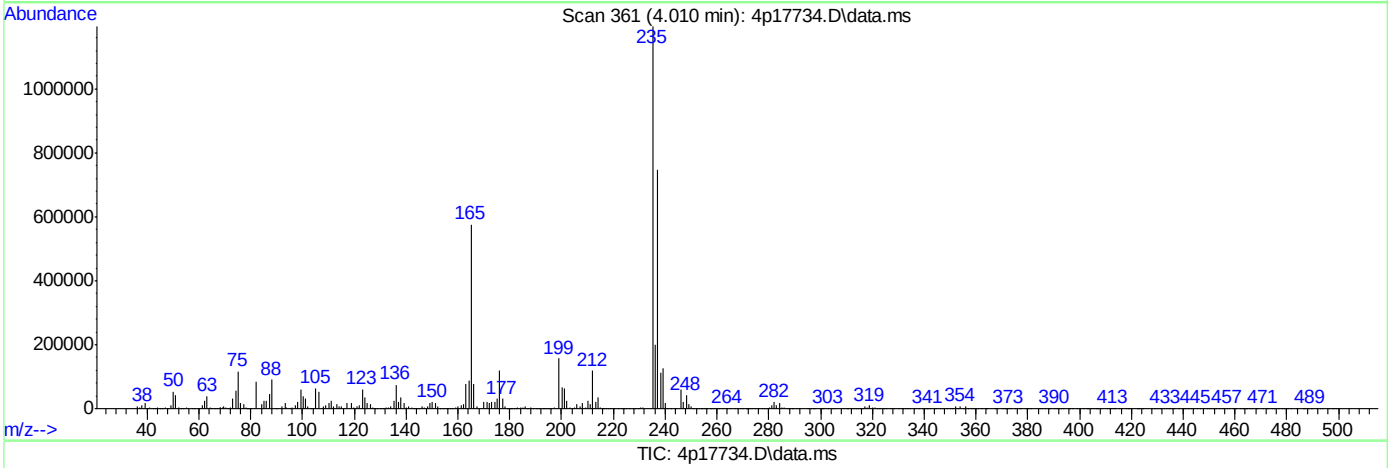
Ion	Exp%	Act%
184.05	100	100
92.05	11.10	10.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P944\
Data File : 4p17734.D
Acq On : 12 Jul 2016 12:05 pm
Operator : ashleyd
Sample : dftpp
Misc : op95217a,e4p944
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 12:11:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p17734.D\data.ms

(3) PP-DDT (MC)

4.350min (-4.350) 0.00ppb

response 0

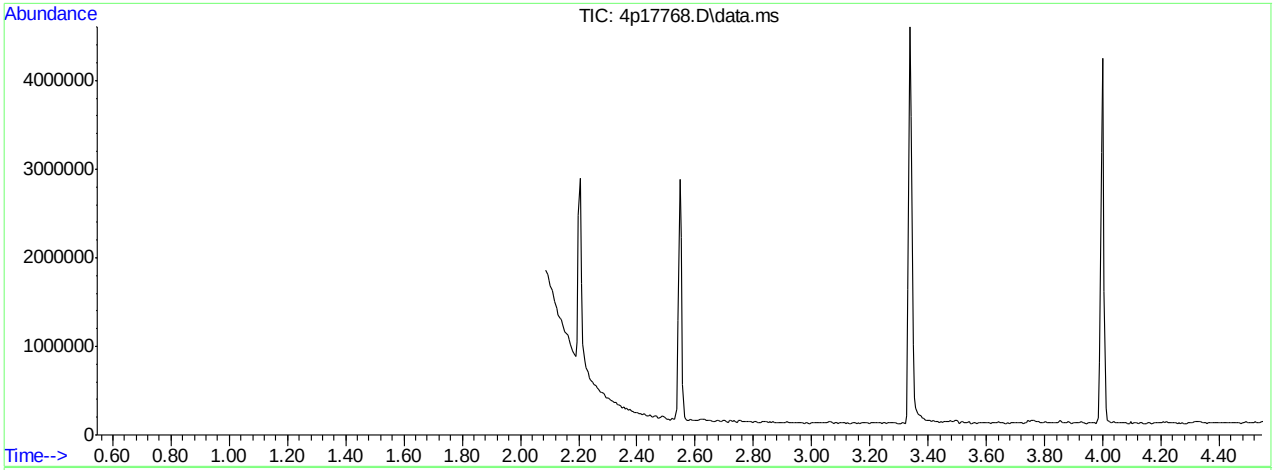
Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

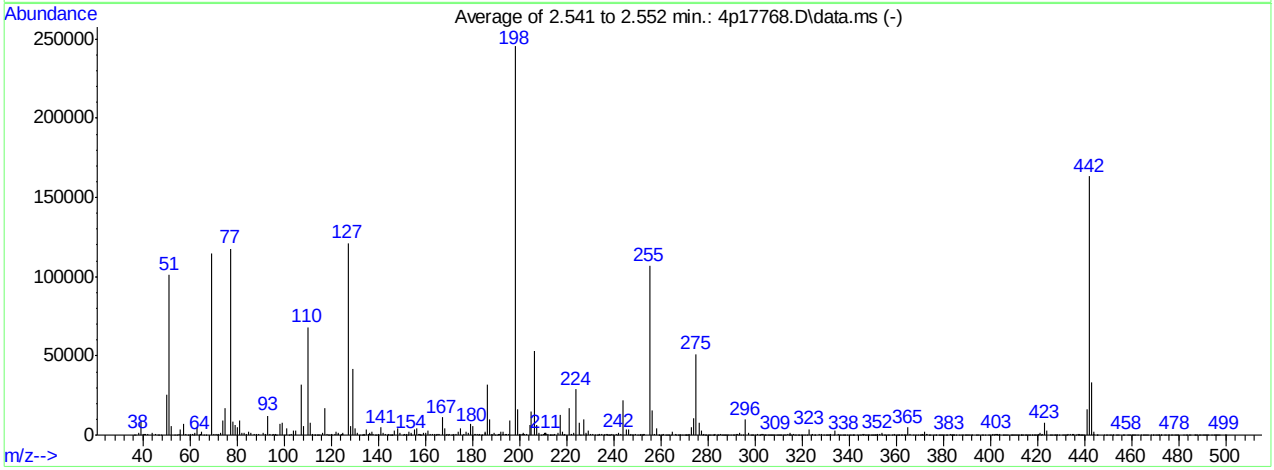
SGS ACCUTEST JC23443

DFTPPR

Data File : C:\msdchem\1\DATA\E4P946\4p17768.D Vial: 1
Acq On : 13 Jul 2016 5:04 pm Operator: ashleyd
Sample : dftpp Inst : MS4P
Misc : op95217a,e4p946 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS





AutoFind: Scans 86, 87, 88; Background Corrected with Scan 80

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.1	100914	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.9	114936	PASS
70	69	0.00	2	0.7	859	PASS
127	198	40	60	49.4	121266	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	245302	PASS
199	198	5	9	6.5	16055	PASS
275	198	10	30	20.8	51013	PASS
365	198	1	100	2.0	4883	PASS
441	443	0.10	100	49.5	16587	PASS
442	198	40	100	66.5	163170	PASS
443	442	17	23	20.5	33499	PASS

4p17768.D DFTPP4P.M Thu Jul 14 16:52:07 2016

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	305	46.90	352	59.00	275	69.00	114936
36.90	168	47.90	84	59.90	532	70.10	859
38.10	1177	50.05	25561	61.05	861	70.90	609
39.10	8423	51.10	100914	61.30	283	71.40	293
40.05	734	52.10	5438	62.05	1516	71.90	448
40.40	380	53.60	202	63.05	4779	73.10	1192
41.00	696	54.20	360	63.95	174	74.00	9531
41.90	455	55.15	707	64.20	461	75.00	16899
44.05	1270	56.00	3546	65.05	2078	77.05	117598
45.30	616	57.10	7004	66.00	242	78.10	8568
46.10	261	58.15	558	66.80	353	79.05	6696

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.05	4819	92.10	1001	100.05	160	112.80	157
81.05	8907	93.05	12154	101.00	3965	113.05	226
82.00	1132	94.05	822	102.20	205	113.70	314
83.10	1467	94.80	293	102.95	940	114.40	375
84.00	388	95.10	611	103.95	2663	114.80	155
85.00	1942	95.85	11	105.05	2882	116.15	1723
86.00	1783	96.10	429	107.10	32127	117.10	17167
87.15	973	96.40	280	108.05	5627	118.05	609
88.15	731	96.70	313	110.00	67929	118.70	270
89.20	495	98.10	6949	111.10	7945	119.20	39
91.10	1265	99.05	7602	112.10	787	120.00	479

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
120.20	156	129.05	41504	136.80	419	144.15	394
121.35	549	130.00	3954	137.00	1795	144.70	91
122.05	1890	131.05	1218	137.80	573	145.20	220
122.80	743	132.20	49	138.70	112	145.90	368
123.05	1478	132.80	280	139.25	66	146.00	326
123.80	150	133.30	306	140.10	699	146.95	3027
124.15	981	133.90	649	141.05	4793	148.05	4235
124.70	456	134.10	149	142.05	1564	149.00	1225
125.00	1714	135.00	3721	143.10	524	150.70	259
127.10	121266	135.90	480	143.80	141	151.20	673
128.10	5854	136.10	1259	144.00	147	151.50	307

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.15	832	158.20	351	167.05	11009	175.00	4220
152.50	200	159.05	1118	168.10	4466	176.05	1026
153.10	1832	160.10	1170	168.80	347	177.10	2263
153.90	373	161.10	2612	169.00	939	178.05	1162
154.10	1205	161.85	477	169.80	179	179.05	6925
155.10	3287	163.05	705	170.10	404	180.05	5857
156.10	3962	163.95	464	171.10	243	180.90	845
157.00	403	164.50	196	171.50	307	181.20	1006
157.20	1001	164.90	396	172.05	762	182.15	598
157.70	229	165.10	643	173.00	739	182.60	283
157.90	397	166.00	782	174.10	2277	183.15	402

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.80	42	191.00	1009	198.95	16055	207.10	6658
184.10	235	191.30	517	199.90	464	208.00	1595
185.10	1802	191.70	655	200.20	805	209.05	347
185.30	1402	192.10	1833	201.10	658	210.20	485

186.05	31810	192.90	598	201.50	537	210.55	1142
187.10	9757	193.05	2487	201.65	1491	211.00	1145
188.10	200	193.90	521	202.20	537	211.25	1327
188.25	844	194.15	1024	202.90	966	211.60	395
188.95	1764	195.10	434	204.15	6259	212.10	411
189.70	133	196.00	9145	205.05	14586	212.90	283
190.35	361	198.00	245302	206.10	53125	213.10	89

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.40	36	222.05	870	231.90	94	237.50	112
213.70	181	223.05	1502	232.90	163	238.05	229
214.15	157	224.10	28698	233.20	200	238.35	154
214.95	770	225.10	7654	233.90	430	239.00	597
216.05	1313	226.00	315	234.10	606	239.80	363
217.05	13116	227.00	9990	235.05	738	240.95	717
218.10	1867	227.95	1624	235.70	20	241.40	170
218.80	113	228.20	285	236.00	225	242.05	1730
219.00	419	229.05	2613	236.85	455	243.05	762
221.10	17014	230.25	479	237.00	438	244.10	22013
221.90	585	231.15	930	237.20	101	245.10	3796

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
246.10	3634	252.40	215	260.95	497	268.10	137
246.80	5	252.60	402	262.00	100	268.30	215
247.05	640	253.00	757	262.55	237	269.30	59
247.90	151	255.10	106757	262.80	72	270.05	58
248.10	276	256.10	15904	263.20	236	270.35	256
249.05	910	257.05	939	264.40	103	270.70	322
250.00	215	258.05	4317	264.95	2078	270.95	226
250.80	343	258.95	206	266.10	231	271.60	130
251.15	240	259.25	366	266.30	495	271.95	466
251.70	439	260.00	188	267.20	157	273.15	4685
251.90	183	260.40	61	267.80	220	274.10	10491

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
275.05	51013	282.35	257	287.70	164	294.65	235
276.05	7868	282.60	196	288.30	188	296.00	9770
277.10	2884	283.10	395	288.60	125	297.05	1536
277.80	274	283.85	255	289.80	320	298.10	246
278.20	668	284.20	164	290.40	115	298.50	305
278.80	133	284.50	207	291.10	361	299.35	215
279.15	102	285.15	606	291.75	468	300.15	205
280.10	196	286.00	150	292.40	433	301.00	423
280.60	124	286.30	108	292.90	122	301.90	72
281.15	325	286.75	169	293.20	1117	302.10	153
281.80	11	287.20	116	294.00	366	302.80	385

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
303.00	801	308.00	102	314.85	99	322.10	301
303.30	538	308.95	337	315.05	1418	323.10	3817
303.80	369	309.50	49	315.50	252	323.80	276
304.20	153	310.05	267	316.05	442	324.20	542
304.60	55	310.70	119	316.80	75	325.10	267
305.30	80	311.00	74	317.30	79	325.55	206
305.90	123	311.95	323	318.20	305	327.00	864
306.40	139	312.55	204	318.80	92	328.10	584
306.85	156	313.05	278	319.50	78	328.90	62
307.20	38	313.95	559	320.20	53	330.15	94
307.50	57	314.30	311	321.20	96	330.55	1

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
331.00	147	339.15	230	346.25	408	351.20	182
331.40	30	340.20	256	346.70	161	351.70	25
332.05	645	340.70	249	347.00	130	352.05	1042
333.20	318	341.30	76	347.60	106	352.95	879
334.05	3005	341.60	96	348.00	45	353.90	200
335.10	1049	342.05	307	348.20	50	354.00	1163
335.95	250	343.20	91	349.20	73	354.90	38
336.35	162	344.55	154	349.70	102	355.20	94
337.40	122	344.80	84	350.00	94	356.30	20
337.90	314	345.60	141	350.50	93	356.85	227
338.35	65	345.85	511	350.95	80	358.10	80

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
359.00	393	365.05	4883	372.90	723	380.10	237
359.20	255	366.00	417	373.10	419	381.00	130
360.10	186	367.20	132	374.10	105	381.65	154
360.40	108	368.20	214	374.40	39	382.95	433
360.80	73	369.15	176	376.00	71	383.20	278
361.25	95	369.85	230	376.55	253	383.50	50
362.15	262	370.40	189	376.80	114	383.80	93
362.40	182	370.90	398	378.30	45	384.10	252
363.20	26	371.10	257	378.50	91	384.30	81
363.45	10	371.50	140	379.30	19	384.60	43
363.90	69	372.05	2314	379.80	108	385.10	158

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
386.70	59	394.15	50	402.55	381	409.00	94
387.55	299	394.70	150	402.90	822	409.60	19
388.10	95	396.50	65	403.10	349	410.00	70
389.10	167	396.90	21	403.45	19	410.60	102
389.70	64	397.85	130	404.05	568	411.00	21
390.15	90	399.10	106	405.10	50	411.40	48
390.50	53	399.45	328	405.85	123	411.80	40
390.90	327	400.60	70	406.20	121	412.80	27
392.00	128	401.15	430	406.95	113	413.10	52
392.20	133	401.60	33	407.30	99	413.60	22
393.90	59	401.95	749	408.50	140	413.90	27

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
414.70	28	419.40	128	426.30	222	432.45	129
414.90	59	419.90	122	427.10	219	433.15	496
415.15	155	420.10	130	427.40	32	434.05	464
416.00	110	420.80	475	427.60	126	434.70	669
416.50	207	421.10	1138	428.00	241	435.00	82
416.90	126	421.50	138	428.25	144	435.35	456
417.60	73	422.05	934	429.15	188	436.10	271
417.90	37	423.05	7626	430.35	358	437.00	786
418.55	170	424.05	2539	431.10	95	437.40	34
418.80	76	425.10	151	431.45	195	437.50	282
419.10	83	425.75	339	431.90	187	437.80	636

Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
438.10	348	445.50	82	456.50	100	464.80	130
438.60	348	448.10	168	456.85	235	465.20	44
438.90	235	449.10	30	458.10	252	465.70	46
439.20	145	449.80	157	458.70	12	466.35	122
439.60	128	450.70	122	459.20	36	466.95	153

441.10	16587	451.20	27	460.05	126	468.10	91
442.10	163170	451.80	22	460.50	55	469.10	137
443.10	33499	452.05	167	460.85	103	469.30	95
443.90	377	453.50	122	461.75	87	470.20	62
444.05	2424	454.10	18	462.60	79	470.70	53
445.20	213	454.55	5	464.10	24	471.00	151

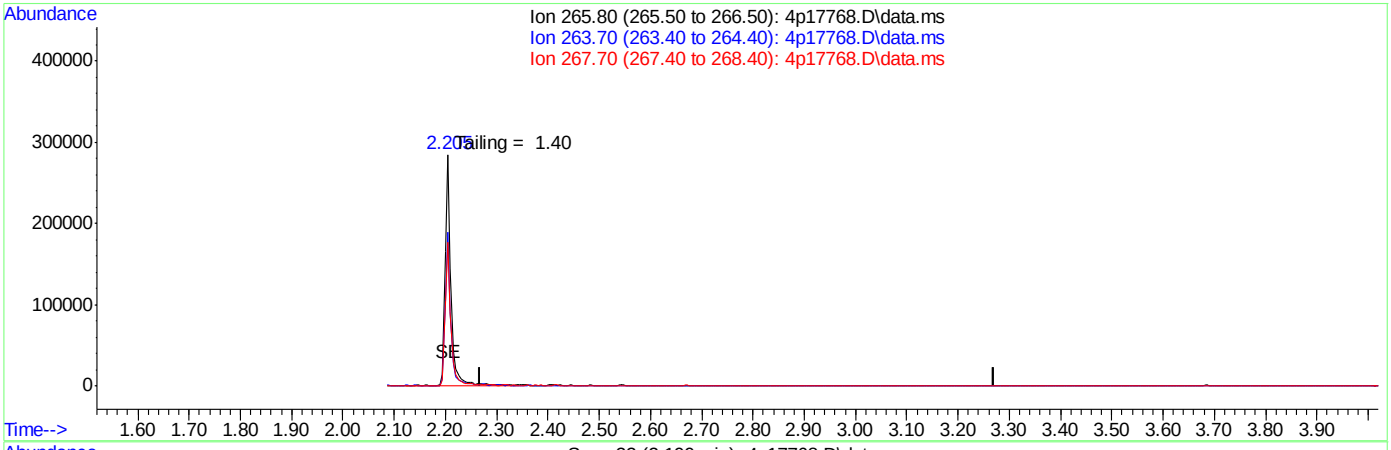
Average of 2.541 to 2.552 min.: 4p17768.D\data.ms
dftpp
Modified:subtracted

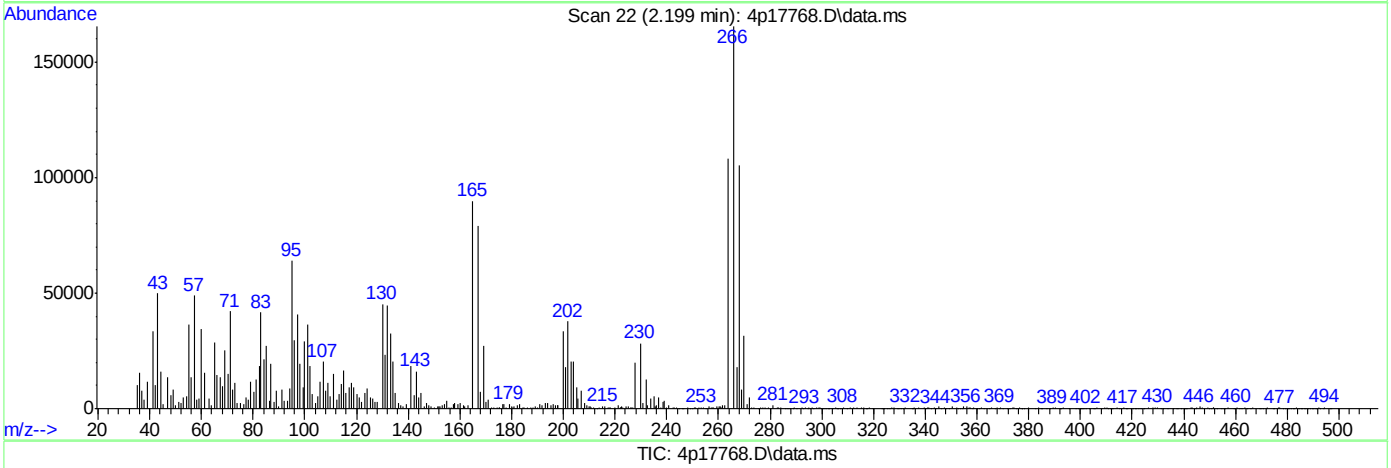
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
471.50	91	478.60	294	487.90	93	495.30	46
471.70	92	479.10	235	488.90	61	495.90	48
472.40	57	479.70	47	489.30	46	496.40	25
472.60	91	482.10	110	490.10	91	496.90	180
473.75	161	483.00	85	490.40	118	497.35	74
474.55	167	483.50	92	490.95	85	499.40	235
475.10	34	484.25	169	491.75	69	499.90	78
475.95	208	484.80	21	492.20	55		
476.70	38	486.60	170	492.50	220		
477.15	83	486.80	81	494.00	47		
478.10	21	487.40	47	494.80	107		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17768.D
Acq On : 13 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95217a,e4p946
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 17:10:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





(1) Pentachlorophenol (MC)

2.770min 0.00ng d

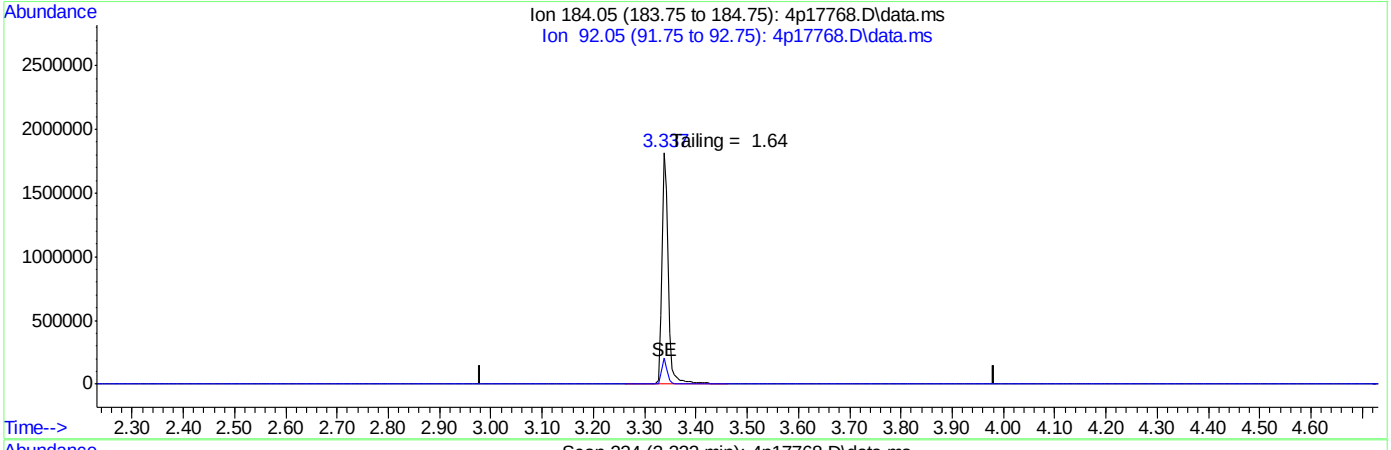
response 0

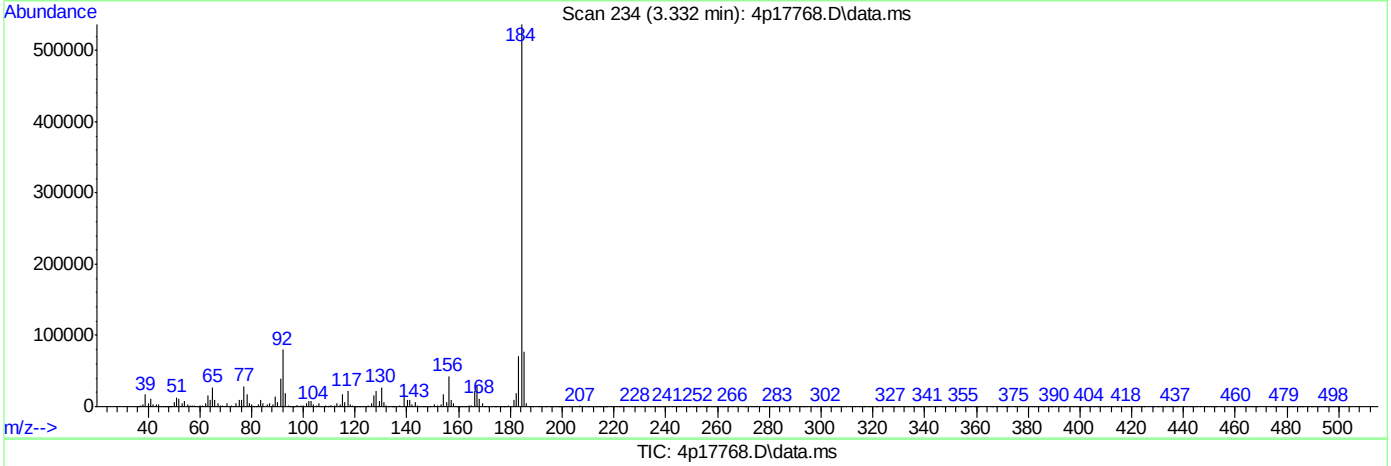
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00
267.70	64.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17768.D
Acq On : 13 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95217a,e4p946
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 17:10:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





(2) Benzidine (M)

3.481min 0.00ng d

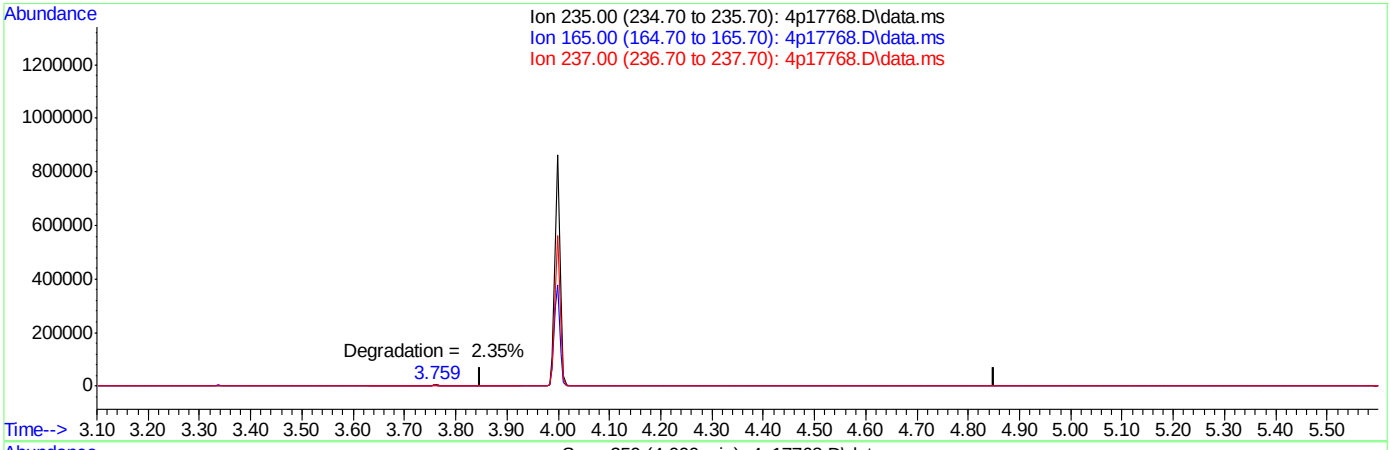
response 0

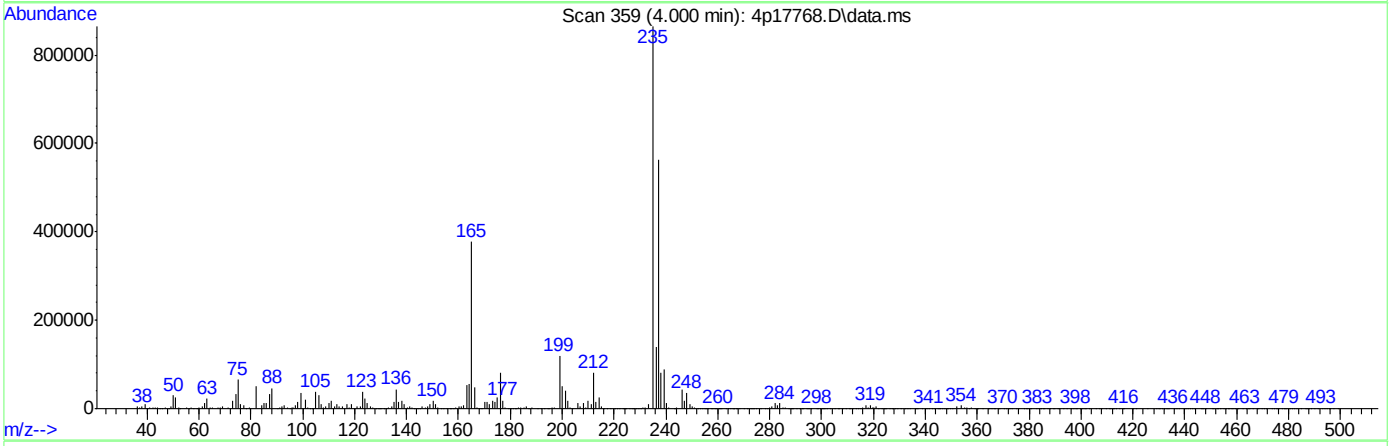
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.10	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17768.D
Acq On : 13 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95217a,e4p946
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 13 17:10:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4P.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Mar 22 10:34:19 2016
Response via : Initial Calibration





TIC: 4p17768.D\data.ms

(3) PP-DDT (MC)

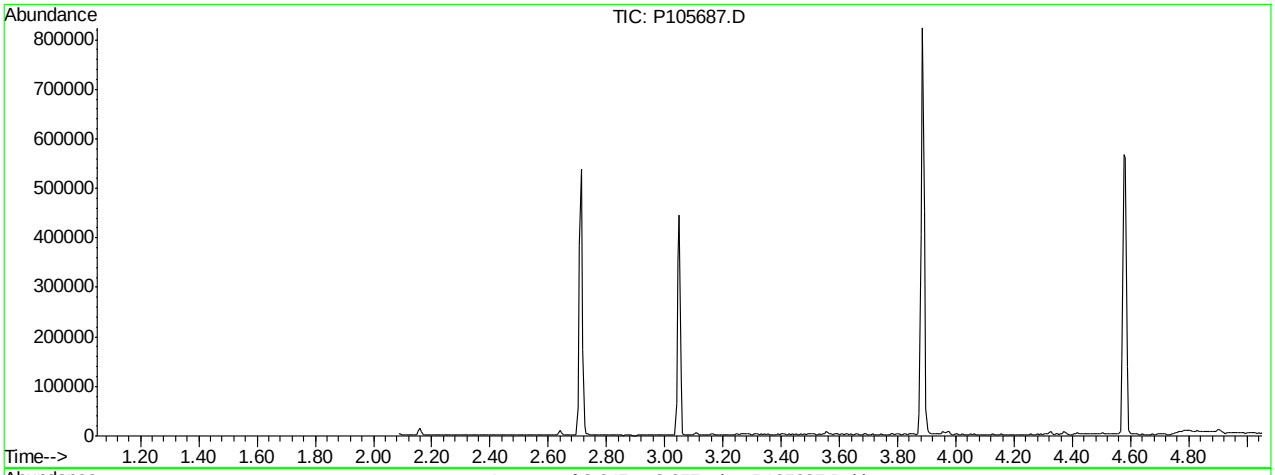
4.350min (-4.350) 0.00ppb

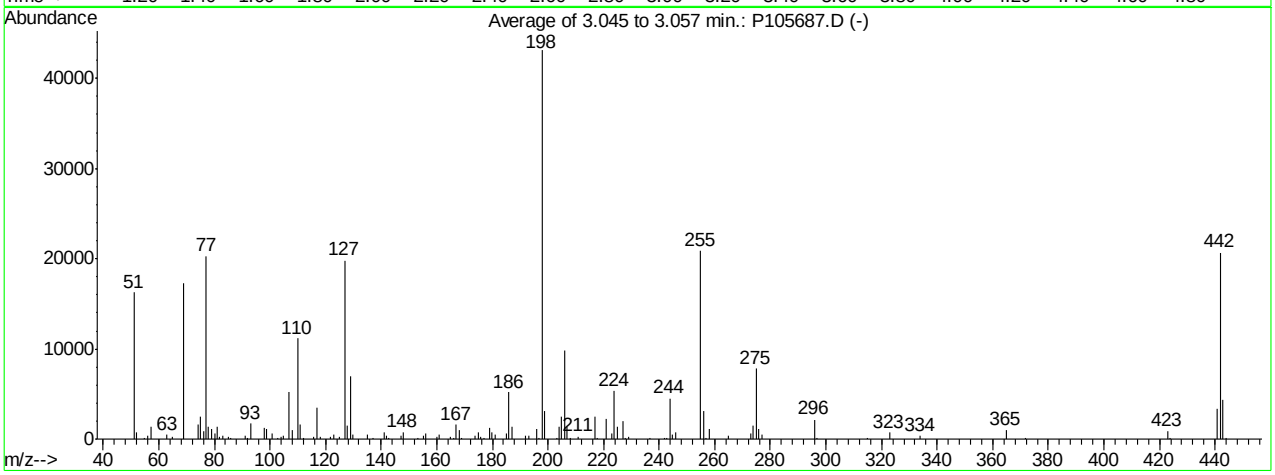
response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4667\P105687.D Vial: 1
Acq On : 28 Jun 2016 10:19 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 169, 170, 171; Background Corrected with Scan 165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.7	16229	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.2	17304	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	45.9	19802	PASS
197	198	0.00	1	0.4	153	PASS
198	198	100	100	100.0	43098	PASS
199	198	5	9	7.1	3067	PASS
275	198	10	30	18.0	7778	PASS
365	198	1	100	2.4	1014	PASS
441	443	0.10	100	78.9	3416	PASS
442	198	40	100	48.0	20666	PASS
443	442	17	23	21.0	4332	PASS

P105687.D DFTPPP.M Tue Jun 28 18:49:09 2016

Average of 3.045 to 3.057 min.: P105687.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.95	16229	77.00	20285	92.90	1691	111.90	130
52.00	793	77.95	1362	97.90	1226	115.85	306
54.90	169	78.95	1074	98.90	1140	116.90	3496
55.90	426	80.00	661	100.90	633	117.95	263
57.00	1360	80.95	1404	102.90	135	121.90	295
63.00	496	81.90	311	103.90	309	122.95	477
65.00	278	82.95	344	104.95	411	124.95	278
68.90	17304	84.95	281	106.90	5191	126.90	19802
74.00	1658	85.90	159	107.95	965	127.95	1538
75.00	2497	90.90	380	109.90	11138	128.90	6928
76.00	883	91.90	180	110.90	1566	129.90	468

Average of 3.045 to 3.057 min.: P105687.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.90	455	160.85	470	179.90	804	203.00	154
136.90	120	164.90	194	180.85	473	203.90	1424
140.90	760	165.90	119	184.95	636	204.90	2457
141.90	341	166.95	1612	185.90	5167	205.90	9877
142.80	130	167.90	954	186.90	1414	206.90	1431
146.95	360	168.90	122	191.85	323	207.90	164
147.90	795	173.85	359	192.95	358	210.95	307
153.00	170	174.90	688	195.90	1111	216.90	2476
155.00	385	175.90	273	196.90	153	217.80	136
155.95	635	176.90	152	197.90	43098	220.90	2268
159.95	296	178.85	1281	198.90	3067	222.90	649

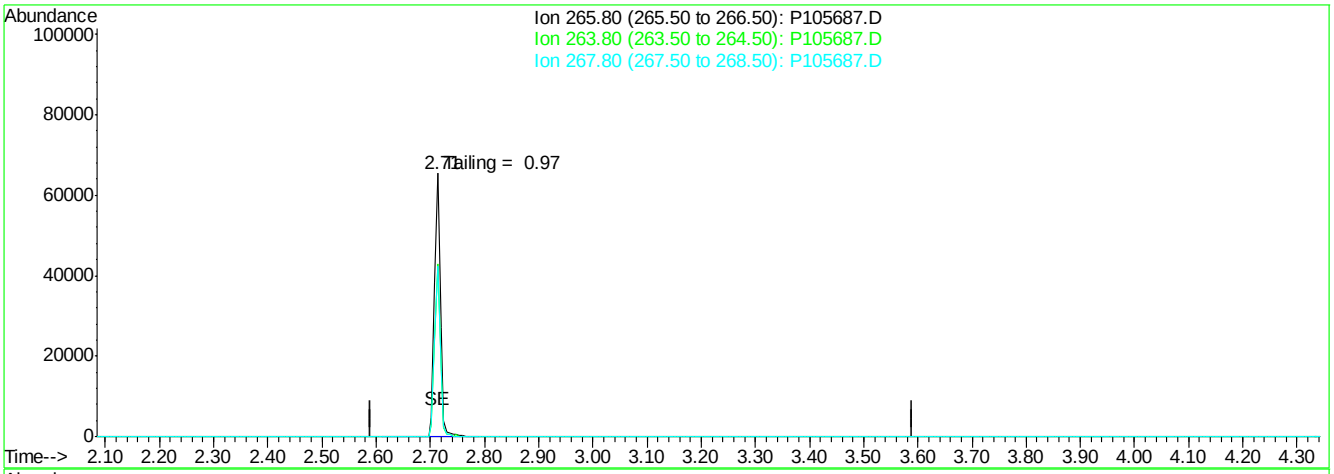
Average of 3.045 to 3.057 min.: P105687.D
dftpp
Modified:subtracted

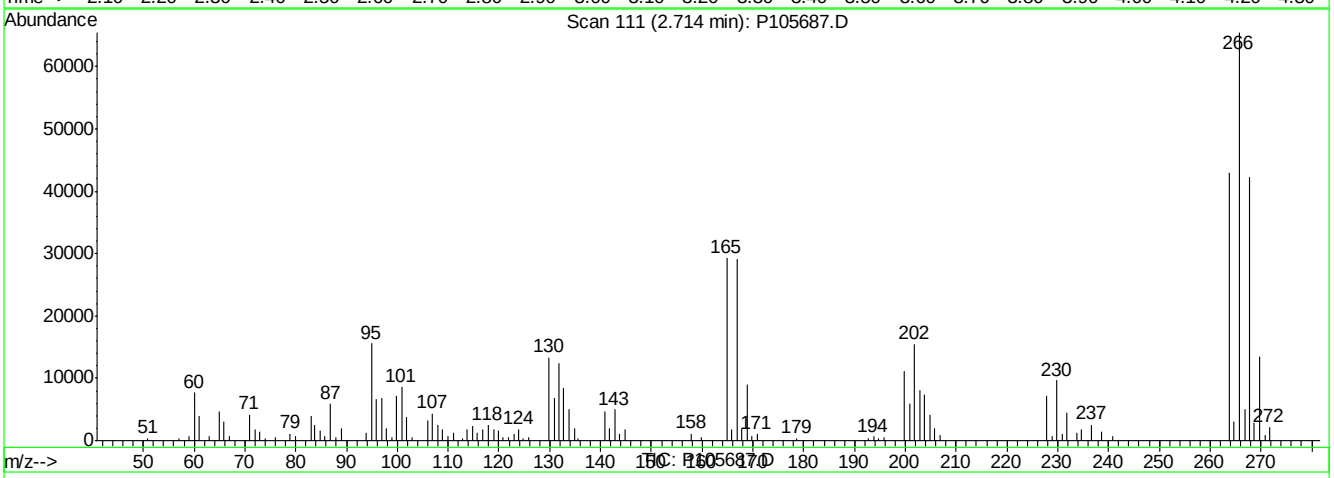
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
223.90	5288	254.90	20847	296.80	187	443.80	189
224.90	1382	255.90	3102	314.80	119		
226.90	2028	256.90	157	322.90	696		
227.90	183	257.90	1161	333.90	347		
228.90	234	264.85	421	364.90	1014		
236.80	131	272.85	645	371.80	157		
241.90	134	273.90	1492	422.85	929		
242.90	145	274.90	7778	423.90	124		
243.90	4480	275.90	1152	440.90	3416		
244.90	484	276.90	529	441.90	20666		
245.85	747	295.90	2133	442.90	4332		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105687.D Vial: 1
Acq On : 28 Jun 2016 10:19 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 10:25 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.09min 0.00ppb

response 0

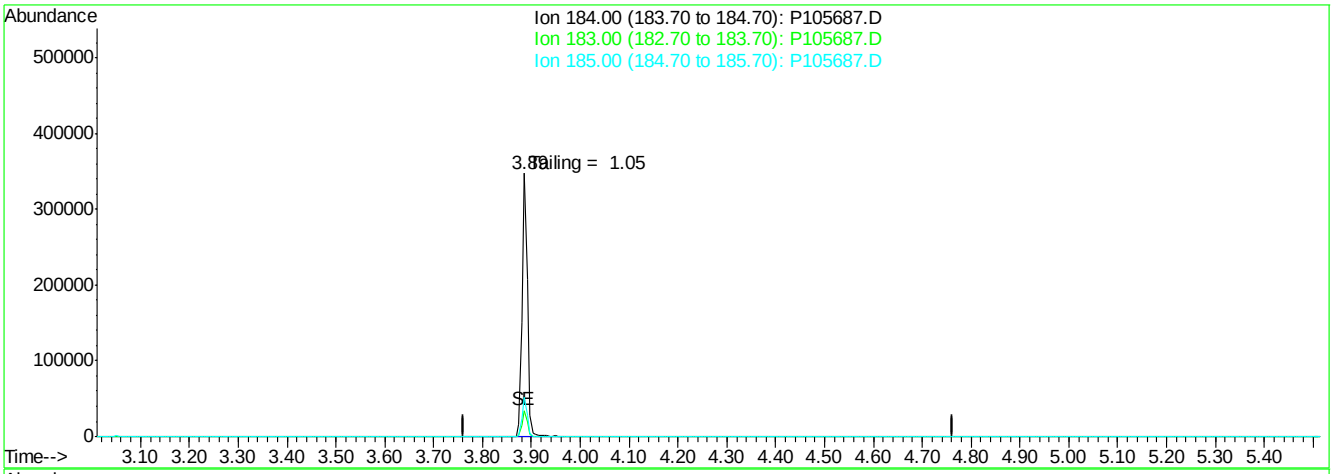
Ion	Exp%	Act%
265.80	100	0.00
263.80	67.60	0.00#
267.80	69.90	0.00#
0.00	0.00	0.00

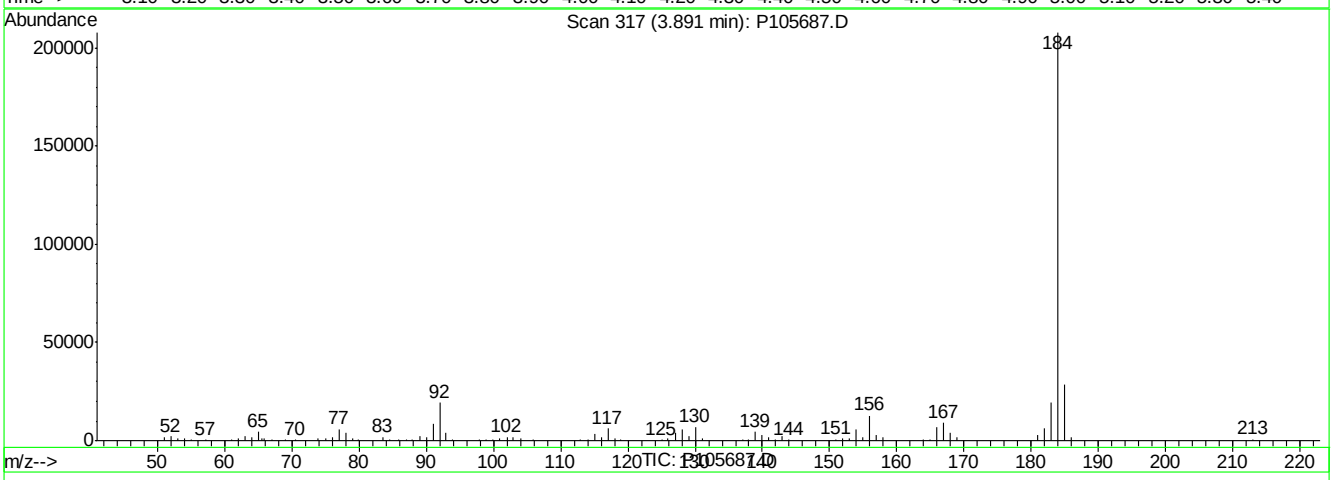
P105687.D DFTPPP.M Tue Jun 28 18:49:15 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105687.D Vial: 1
Acq On : 28 Jun 2016 10:19 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 10:25 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.26min 0.00ppb

response 0

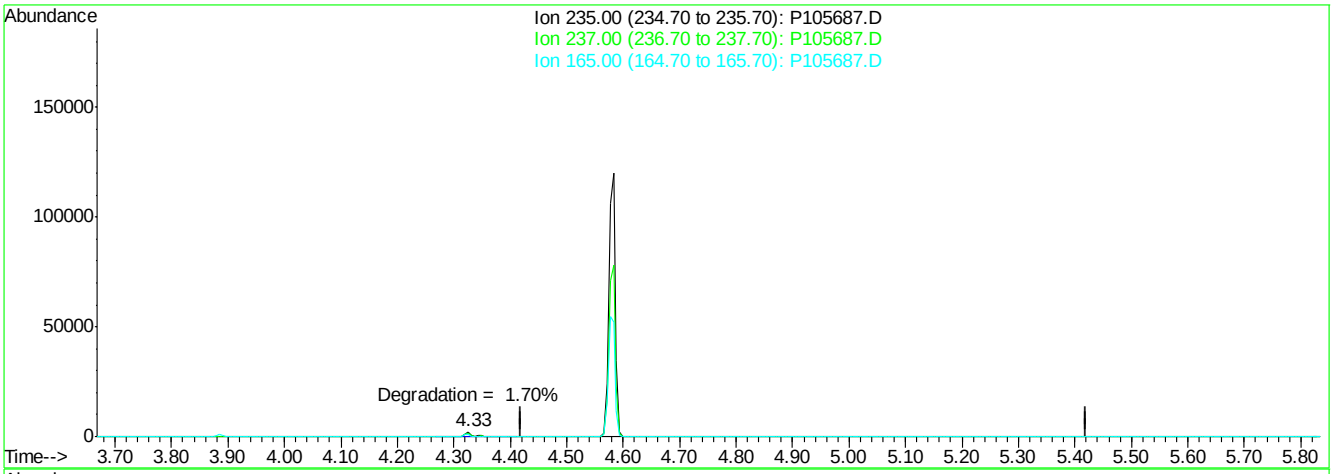
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.20	0.00
185.00	13.60	0.00
0.00	0.00	0.00

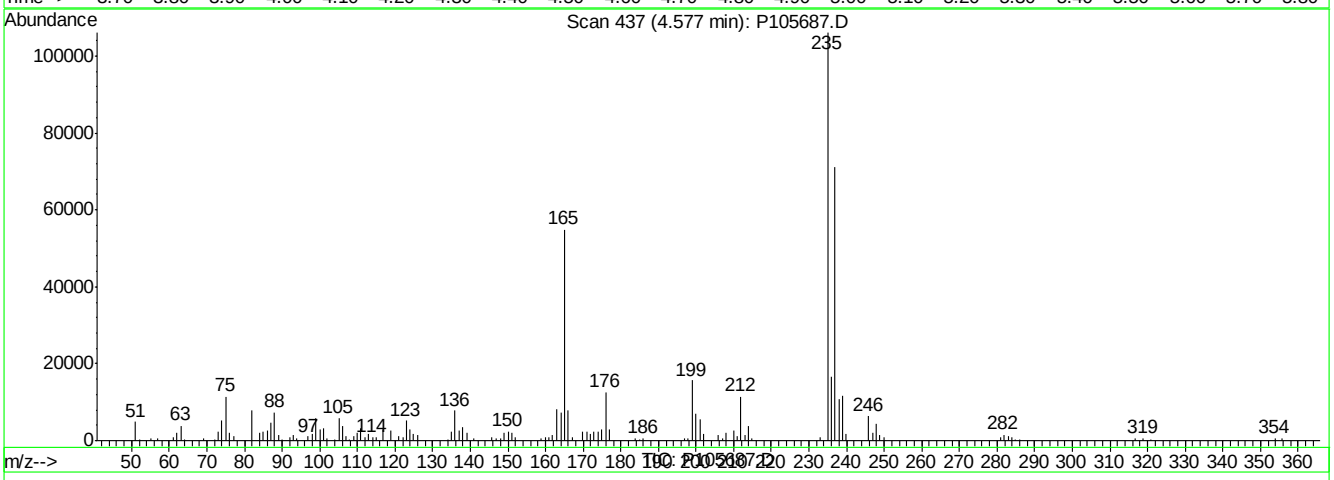
P105687.D DFTPPP.M Tue Jun 28 18:49:21 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105687.D Vial: 1
Acq On : 28 Jun 2016 10:19 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 10:25 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(3) ddt

4.92min 0.00ppb

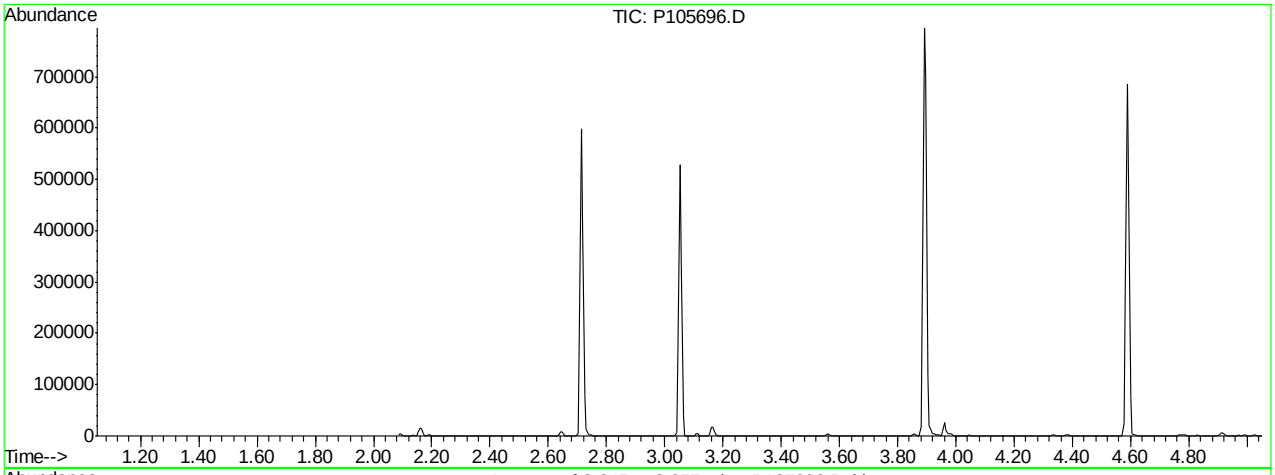
response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	55.80	0.00#
165.00	51.00	0.00#
0.00	0.00	0.00

P105687.D DFTPPP.M Tue Jun 28 18:49:27 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4668\P105696.D Vial: 1
Acq On : 28 Jun 2016 6:47 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um



AutoFind: Scans 169, 170, 171; Background Corrected with Scan 165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.8	19412	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.1	20024	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	51.2	23806	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	46466	PASS
199	198	5	9	6.9	3201	PASS
275	198	10	30	19.0	8837	PASS
365	198	1	100	2.1	966	PASS
441	443	0.10	100	74.7	3328	PASS
442	198	40	100	46.9	21805	PASS
443	442	17	23	20.4	4453	PASS

P105696.D DFTPPP.M Wed Jun 29 15:06:36 2016

Average of 3.045 to 3.057 min.: P105696.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	19412	75.00	2937	91.00	232	109.95	13081
52.00	1067	76.00	1055	91.90	165	110.95	1754
55.00	167	77.00	24216	92.95	2075	111.90	144
55.95	635	78.00	1817	97.95	1581	115.95	327
57.00	1368	78.95	1187	98.95	1565	116.95	3915
60.90	126	79.95	1042	100.95	852	118.00	203
62.00	175	81.00	1597	103.00	149	121.90	191
63.00	708	81.85	348	103.90	254	122.90	657
65.00	149	82.95	531	105.00	209	123.90	122
68.95	20024	84.90	129	106.95	6582	124.95	347
73.95	1754	85.95	364	107.90	960	126.95	23806

Average of 3.045 to 3.057 min.: P105696.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
127.95	1938	147.95	928	172.90	122	188.80	131
128.90	8106	148.90	135	173.90	463	191.90	378
129.85	852	152.90	157	174.95	665	192.90	393
133.90	140	155.05	457	176.00	132	195.95	1290
135.00	481	155.95	919	176.90	158	196.60	179
135.90	165	159.80	180	178.95	1343	197.90	46466
136.80	165	161.00	441	179.90	1000	198.90	3201
137.00	274	164.90	170	180.90	450	201.30	175
140.90	888	165.90	117	184.95	661	202.90	145
141.90	184	166.95	2078	186.00	5945	203.95	1452
146.90	406	167.95	1330	187.00	1761	204.95	2484

Average of 3.045 to 3.057 min.: P105696.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
205.95	11519	226.90	2275	256.85	263	303.00	139
207.00	1385	227.90	124	257.90	987	314.90	126
208.00	208	228.90	477	264.90	432	322.80	342
209.90	123	230.90	161	272.95	622	323.00	355
210.90	209	242.00	210	273.95	1797	333.95	495
216.90	2585	242.90	143	274.90	8837	345.90	119
217.90	139	243.95	4817	275.90	976	353.90	120
220.90	2437	244.90	569	276.90	608	364.80	966
222.90	553	245.90	686	295.90	2326	371.90	127
223.95	5934	254.90	23032	296.95	288	402.90	124
224.95	1377	255.90	3271	302.80	137	422.90	1051

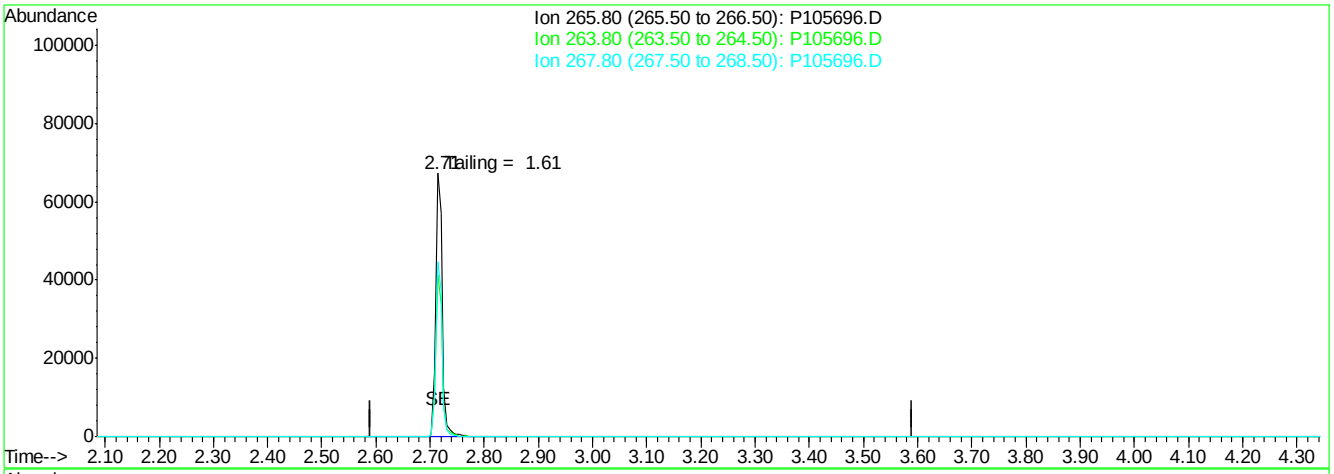
Average of 3.045 to 3.057 min.: P105696.D
dftpp
Modified:subtracted

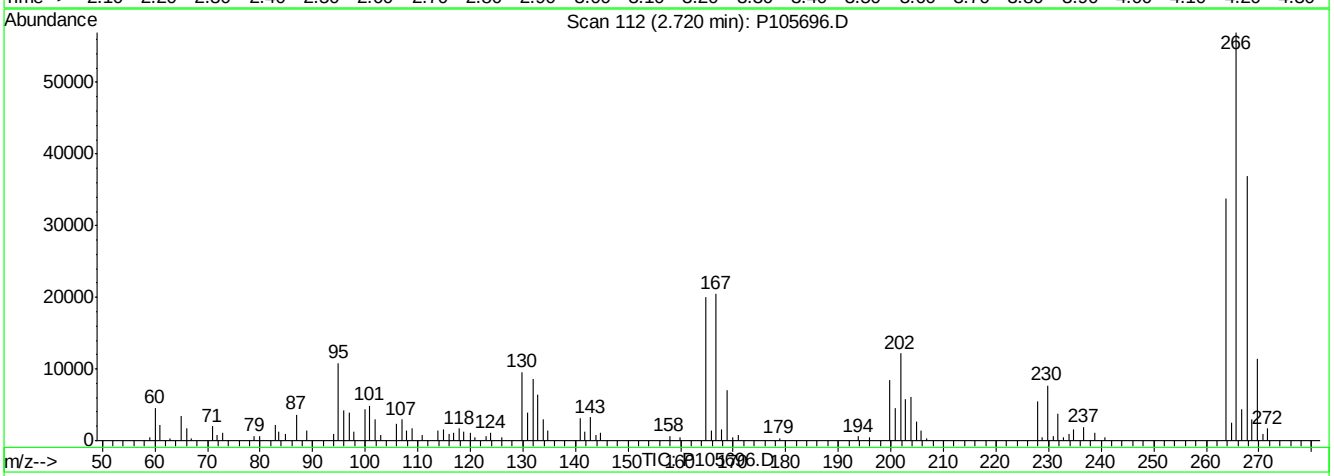
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
440.90	3328						
441.90	21805						
442.90	4453						
443.90	439						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105696.D Vial: 1
Acq On : 28 Jun 2016 6:47 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 18:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.09min 0.00ppb

response 0

Ion	Exp%	Act%
265.80	100	0.00
263.80	67.60	0.00#
267.80	69.90	0.00#
0.00	0.00	0.00

P105696.D DFTPPP.M Wed Jun 29 15:06:44 2016

7.5.13.1

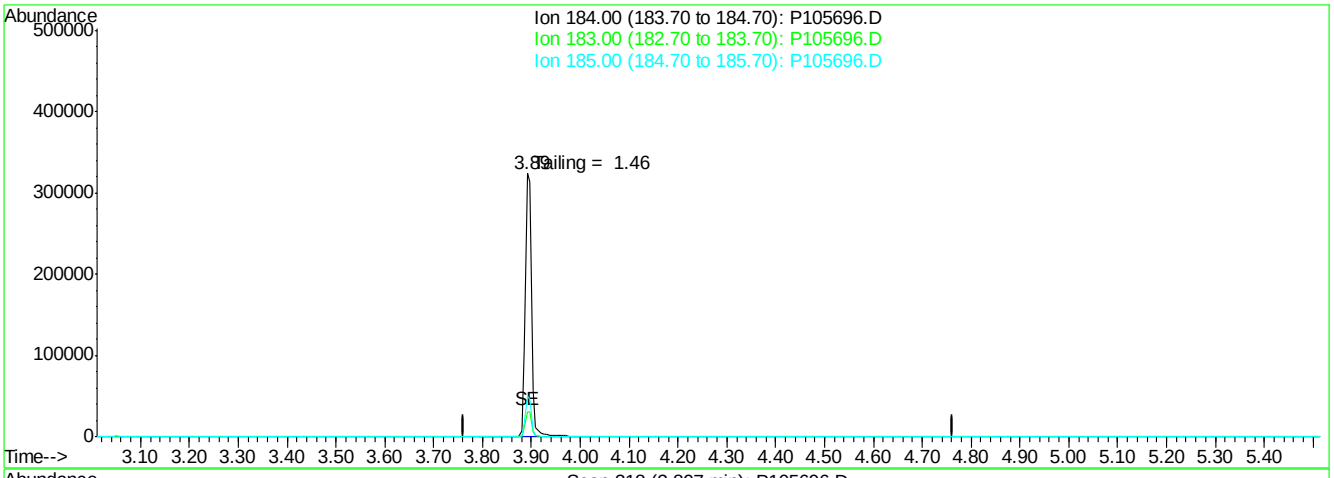
7

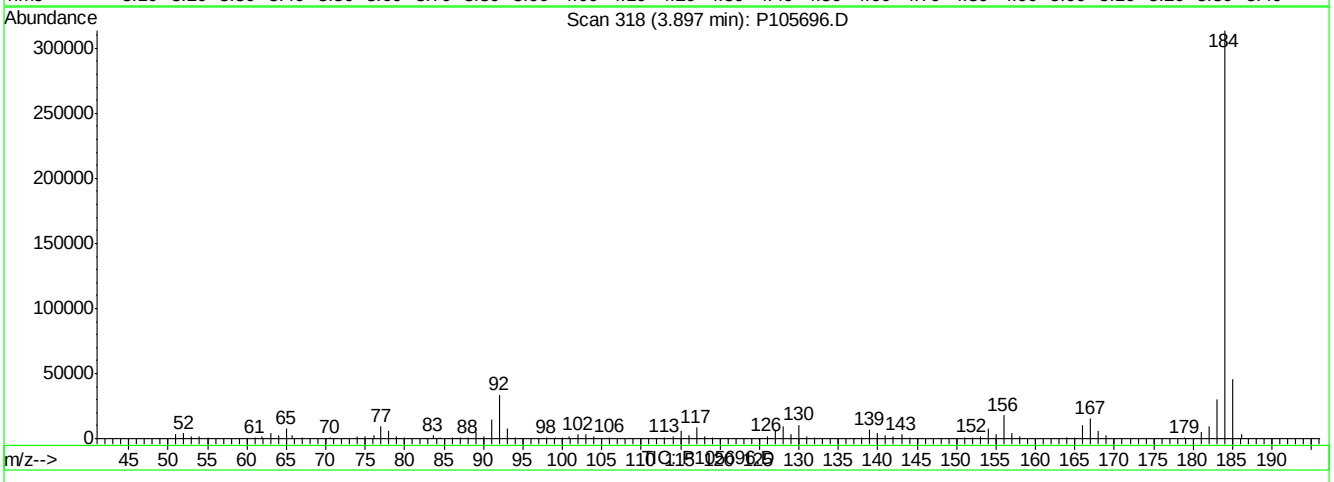
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105696.D Vial: 1
Acq On : 28 Jun 2016 6:47 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 18:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.26min 0.00ppb

response 0

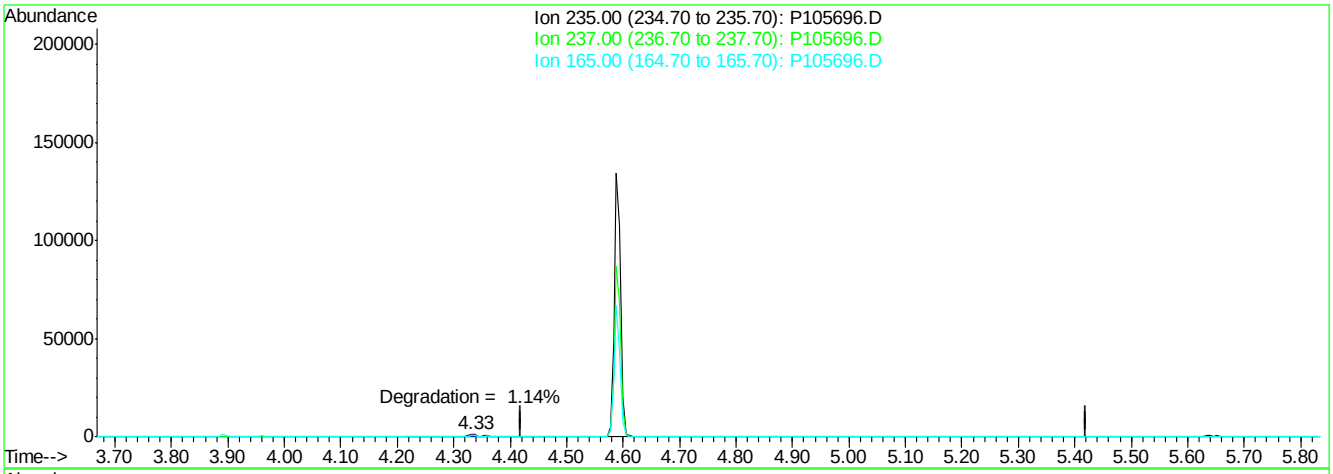
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.20	0.00
185.00	13.60	0.00
0.00	0.00	0.00

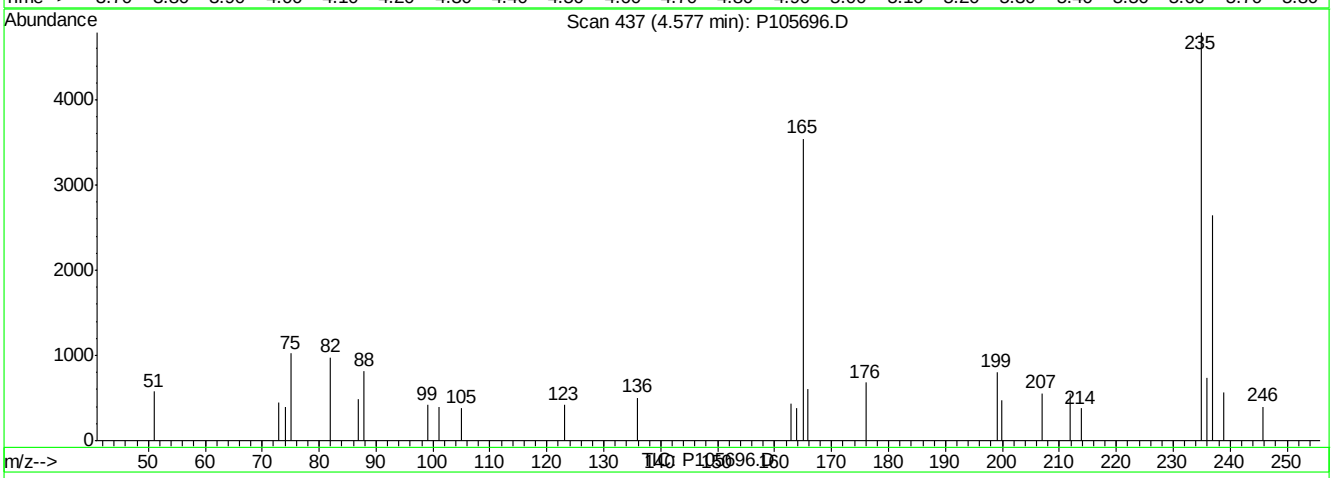
P105696.D DFTPPP.M Wed Jun 29 15:06:50 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105696.D Vial: 1
Acq On : 28 Jun 2016 6:47 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 28 18:53 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(3) ddt

4.92min 0.00ppb

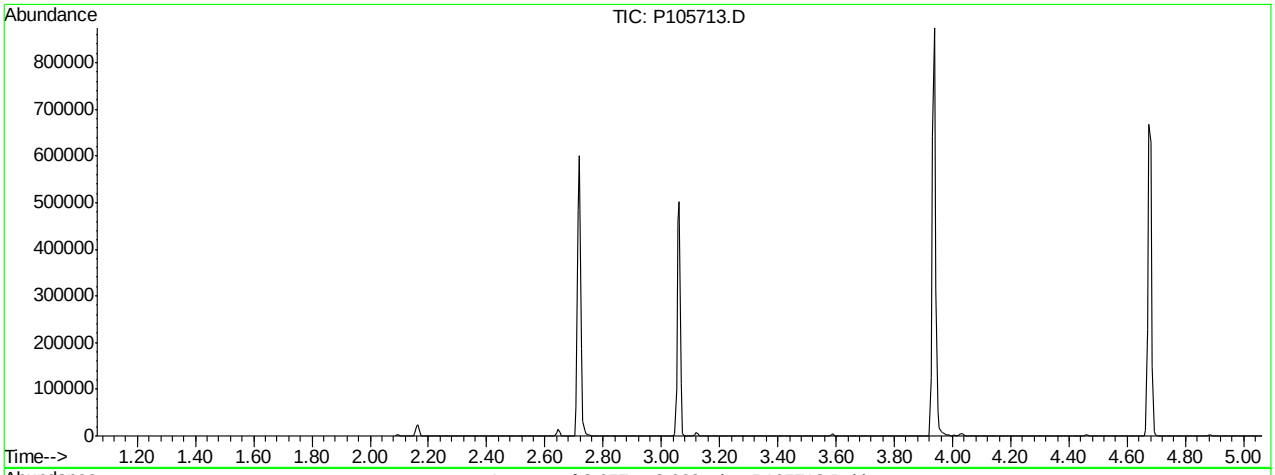
response 0

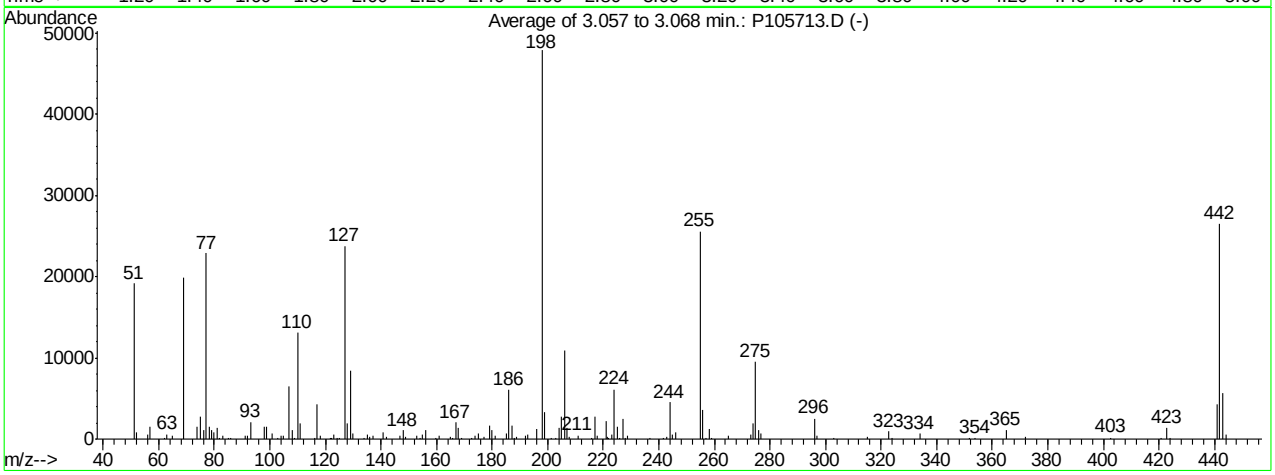
Ion	Exp%	Act%
235.00	100	0.00
237.00	55.80	0.00#
165.00	51.00	0.00#
0.00	0.00	0.00

P105696.D DFTPPP.M Wed Jun 29 15:06:55 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4669\P105713.D Vial: 1
Acq On : 29 Jun 2016 10:59 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4669 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 171, 172, 173; Background Corrected with Scan 166

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.0	19146	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.4	19822	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	49.6	23765	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	47872	PASS
199	198	5	9	7.0	3329	PASS
275	198	10	30	19.8	9496	PASS
365	198	1	100	2.4	1152	PASS
441	443	0.10	100	74.8	4221	PASS
442	198	40	100	55.4	26504	PASS
443	442	17	23	21.3	5641	PASS

P105713.D DFTPPP.M Wed Jun 29 15:48:33 2016

Average of 3.057 to 3.068 min.: P105713.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	19146	77.00	22888	93.00	2081	110.90	1883
52.00	844	78.00	1580	97.95	1478	116.00	131
55.90	545	78.95	1049	98.90	1483	116.95	4235
56.95	1580	79.95	901	100.95	698	117.95	370
62.00	125	81.00	1385	102.90	128	121.80	140
63.00	603	82.00	207	103.95	363	122.00	137
65.00	350	82.90	432	104.95	387	122.95	620
68.95	19822	84.90	126	106.90	6470	124.00	129
73.95	1572	85.90	191	107.95	1168	125.00	136
75.00	2789	90.90	378	108.90	131	127.00	23765
76.00	1089	91.95	371	109.90	13119	127.90	1925

Average of 3.057 to 3.068 min.: P105713.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.95	8377	152.95	373	172.80	143	188.90	312
129.95	758	153.90	141	173.90	389	191.95	443
133.90	131	154.95	549	175.00	745	192.90	531
134.90	542	156.00	1077	176.95	263	195.90	1256
135.90	292	159.90	131	178.90	1607	197.90	47872
137.05	363	160.90	423	179.90	1057	198.90	3329
140.90	868	164.85	277	180.90	449	201.30	168
141.95	305	165.90	135	184.95	643	202.90	126
146.90	421	166.95	2058	185.95	6030	203.90	1370
147.90	1083	167.90	1402	186.95	1699	204.90	2698
148.90	265	168.90	121	187.90	119	206.00	10854

Average of 3.057 to 3.068 min.: P105713.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
206.95	1425	224.95	1524	254.90	25620	295.90	2555
207.90	316	225.90	120	255.90	3592	296.90	378
210.90	416	226.90	2525	256.90	153	302.90	157
215.80	121	227.80	205	258.00	1247	314.85	288
216.90	2792	228.85	422	258.80	135	322.90	964
217.90	361	236.90	155	264.90	443	323.90	131
220.95	2184	241.80	153	272.90	622	333.90	629
221.60	227	242.90	336	273.95	1910	351.80	117
222.00	175	243.95	4555	274.90	9496	353.90	135
222.85	554	245.00	551	275.90	1149	364.90	1152
223.90	6102	245.90	818	276.90	653	371.90	336

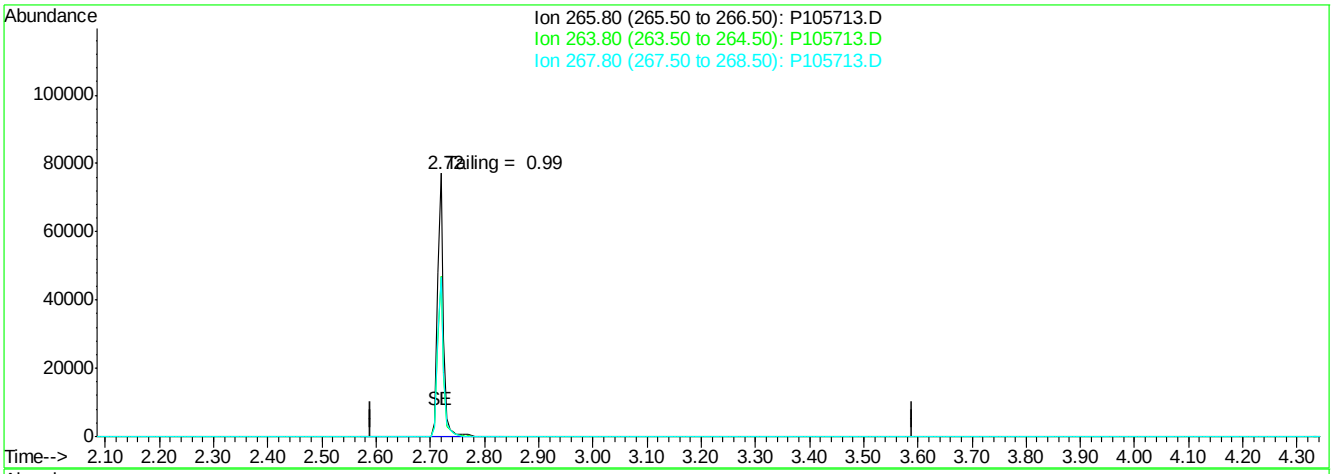
Average of 3.057 to 3.068 min.: P105713.D
dftpp
Modified:subtracted

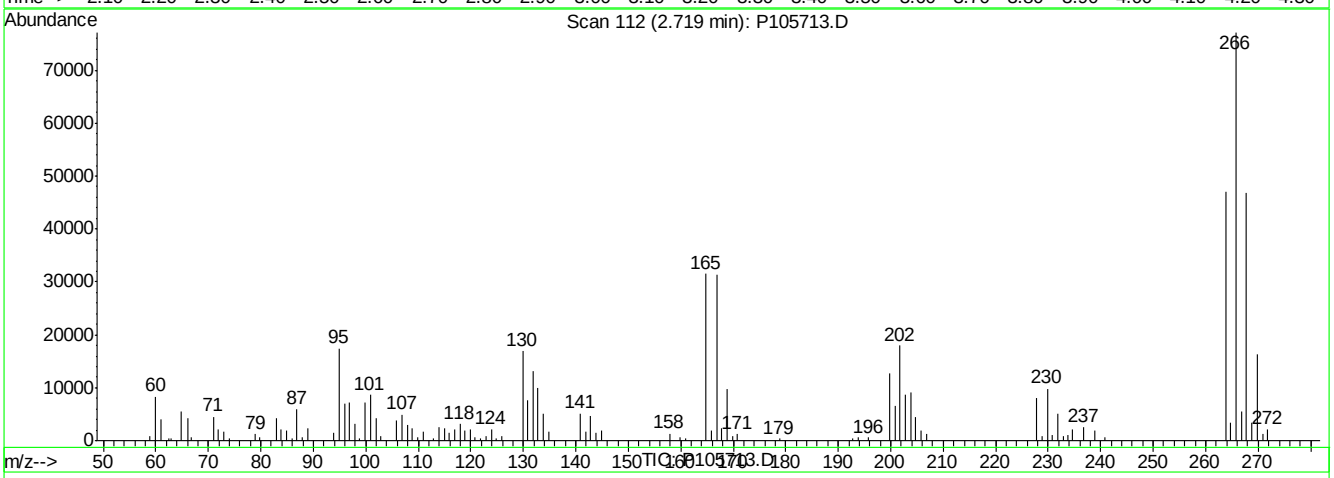
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
402.80	167						
420.90	143						
422.90	1329						
423.80	116						
440.90	4221						
441.90	26504						
442.90	5641						
444.00	490						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4669\P105713.D Vial: 1
Acq On : 29 Jun 2016 10:59 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4669 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:05 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.09min 0.00ppb

response 0

Ion	Exp%	Act%
265.80	100	0.00
263.80	67.60	0.00#
267.80	69.90	0.00#
0.00	0.00	0.00

P105713.D DFTPPP.M Wed Jun 29 15:48:17 2016

7.5.14.1

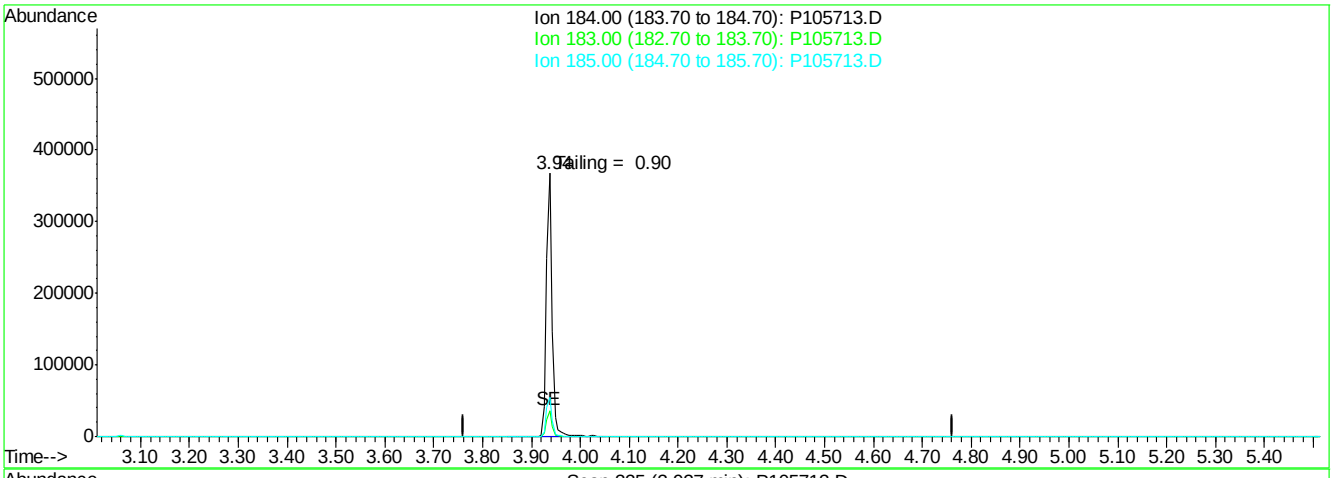
7

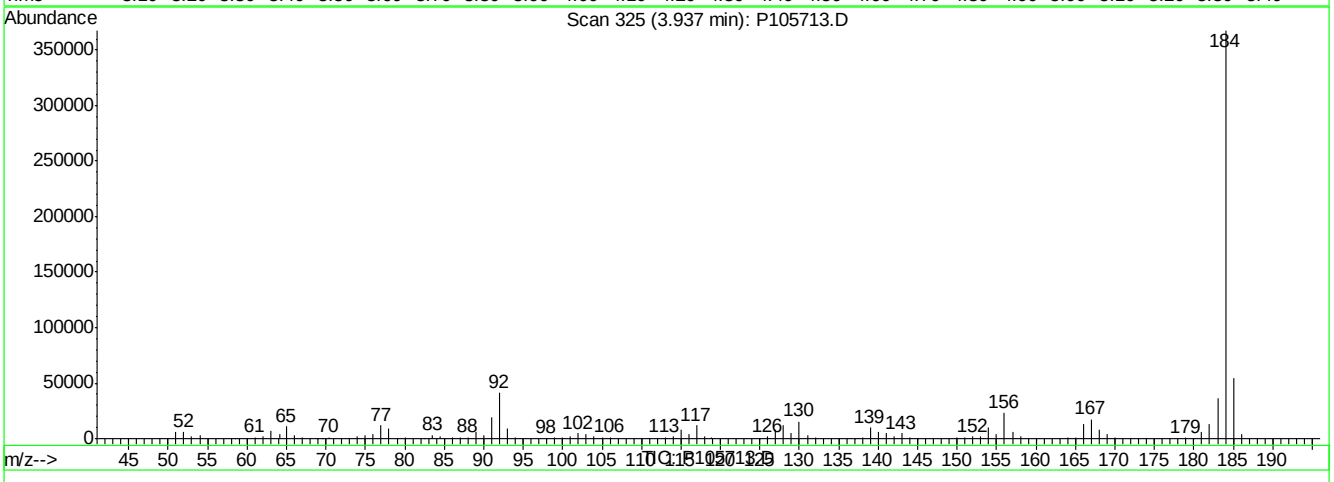
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4669\P105713.D Vial: 1
Acq On : 29 Jun 2016 10:59 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4669 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:05 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.02min 0.41ppb

response 1172

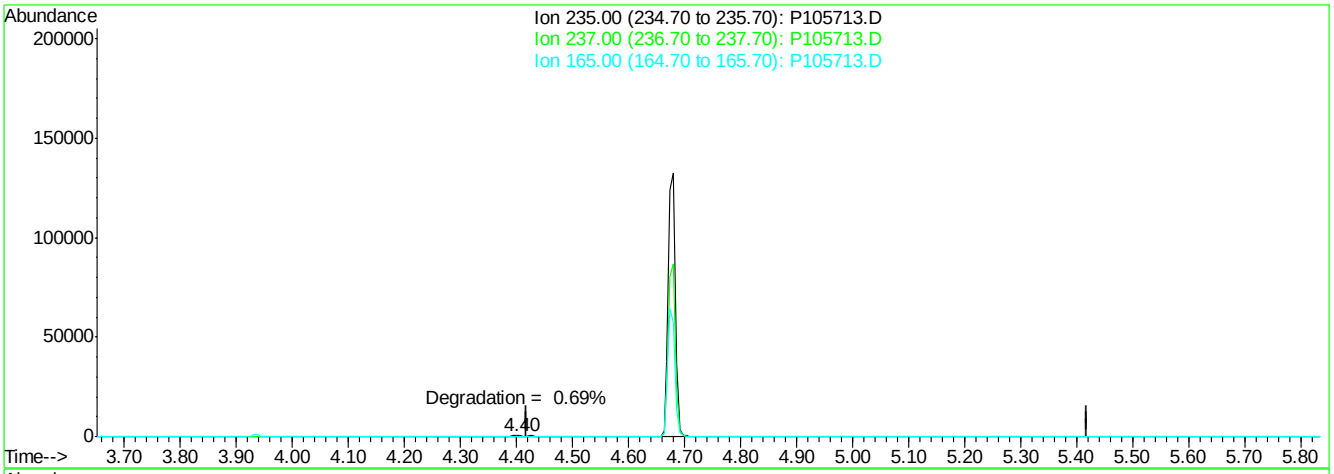
Ion	Exp%	Act%
184.00	100	100
183.00	10.20	0.00
185.00	13.60	0.00
0.00	0.00	0.00

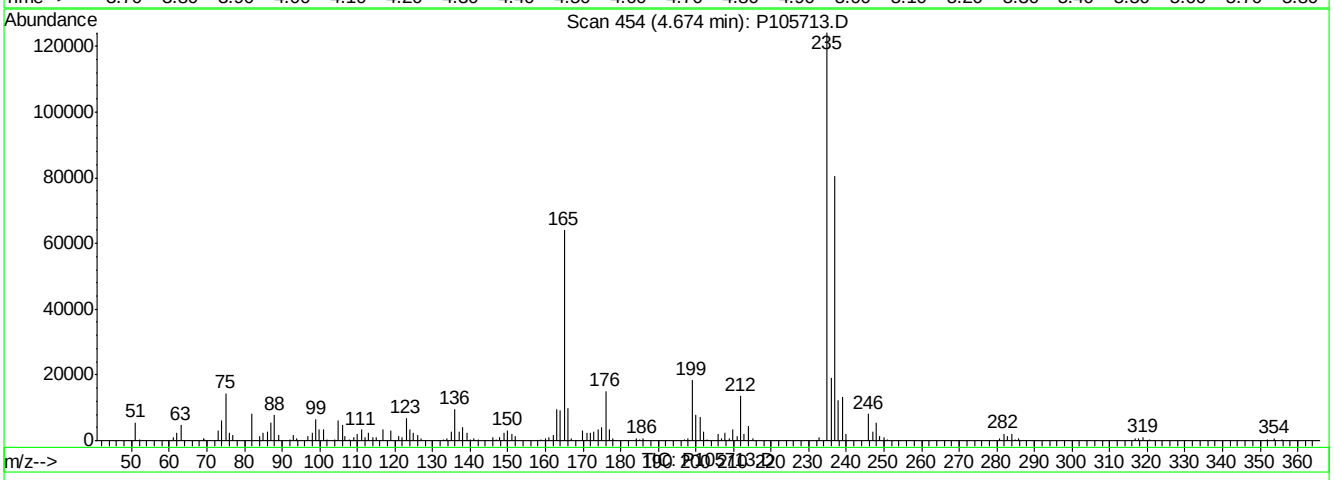
P105713.D DFTPPP.M Wed Jun 29 15:48:21 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4669\P105713.D Vial: 1
Acq On : 29 Jun 2016 10:59 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4669 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 29 11:05 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(3) ddt

4.68min 89.23ppb

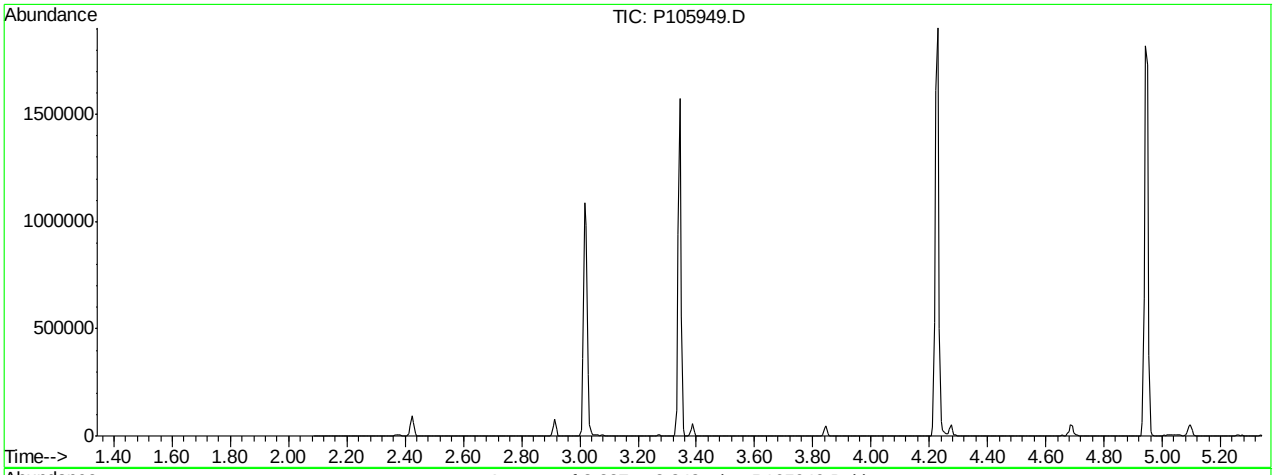
response 116024

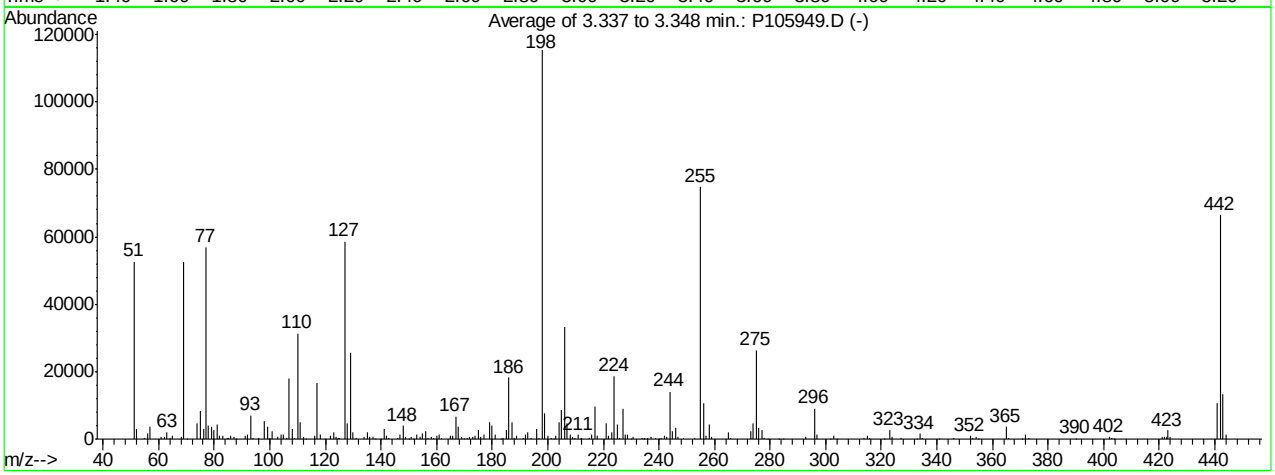
Ion	Exp%	Act%
235.00	100	100
237.00	55.80	64.84
165.00	51.00	48.56
0.00	0.00	0.00

P105713.D DFTPPP.M Wed Jun 29 15:48:29 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4679\P105949.D Vial: 1
Acq On : 8 Jul 2016 10:52 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4679 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um





AutoFind: Scans 220, 221, 222; Background Corrected with Scan 216

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.7	52624	PASS
68	69	0.00	2	1.3	679	PASS
69	198	0.00	100	45.5	52474	PASS
70	69	0.00	2	0.3	176	PASS
127	198	40	60	50.9	58669	PASS
197	198	0.00	1	0.2	211	PASS
198	198	100	100	100.0	115240	PASS
199	198	5	9	6.6	7639	PASS
275	198	10	30	22.9	26358	PASS
365	198	1	100	3.1	3563	PASS
441	443	0.10	100	79.3	10672	PASS
442	198	40	100	57.6	66328	PASS
443	442	17	23	20.3	13450	PASS

P105949.D DFTPPP.M Fri Jul 08 14:49:29 2016

Average of 3.337 to 3.348 min.: P105949.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	52624	68.95	52474	83.00	1138	97.95	5307
52.00	2944	70.00	176	84.80	314	99.00	3760
54.95	416	73.95	4637	85.00	374	99.95	396
56.00	1693	75.00	8353	85.95	1159	100.95	2326
57.00	3794	76.05	2893	87.00	751	102.95	525
61.00	544	77.00	56885	88.00	164	103.90	1314
61.95	808	78.00	3952	91.00	1069	104.95	1185
63.00	2039	78.95	3640	91.95	1220	106.00	419
64.00	186	80.00	2565	93.00	7120	107.00	17982
65.00	1042	80.95	4168	93.90	280	107.95	3036
68.00	679	81.90	942	96.00	301	109.00	231

Average of 3.337 to 3.348 min.: P105949.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
109.95	31391	124.80	243	137.90	131	151.80	161
110.95	5068	125.00	452	139.90	160	152.95	1263
111.95	522	126.95	58669	140.95	2959	153.95	618
113.00	124	127.95	4692	141.90	923	154.95	1673
116.00	882	128.90	25560	142.85	476	155.95	2363
116.90	16501	129.95	2075	145.90	510	156.90	243
117.95	1183	131.00	204	146.95	1506	157.90	549
119.90	148	133.85	651	147.90	3955	158.90	474
121.90	1085	134.90	2146	148.90	830	159.90	939
122.90	1916	135.90	733	150.00	143	160.90	1340
123.85	821	136.95	740	150.95	546	161.80	348

Average of 3.337 to 3.348 min.: P105949.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
164.85	937	176.00	616	188.85	1043	201.90	165
165.90	1039	176.90	1184	190.95	305	202.90	1166
166.90	6722	178.90	4877	191.85	1375	203.90	4988
167.90	3603	179.90	3845	192.90	1922	204.90	8589
169.00	679	180.95	1477	193.90	224	205.90	33330
169.90	158	182.90	123	195.90	2945	206.95	4597
171.00	198	183.90	333	196.70	211	207.90	1416
171.90	786	184.95	2509	197.90	115240	208.95	562
172.90	798	186.00	18277	198.90	7639	209.90	287
174.00	1122	186.95	4836	199.90	900	211.00	1275
174.95	2655	187.90	424	201.35	381	211.70	119

Average of 3.337 to 3.348 min.: P105949.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
212.00	188	226.00	210	238.80	203	254.90	74685
215.00	220	226.90	9024	239.90	138	255.90	10534
215.90	1256	227.85	1331	240.85	496	256.85	962
216.90	9738	228.85	1459	241.90	1070	257.90	4368
217.95	1144	230.00	129	242.95	735	259.00	682
220.90	4704	230.85	645	243.90	14042	264.90	2083
221.60	219	233.95	402	244.90	2189	265.90	200
221.85	1113	234.70	134	245.90	3278	272.90	2278
222.90	2077	234.90	447	246.90	739	273.90	4784
223.95	18772	235.90	359	249.00	260	274.90	26358
224.95	4296	236.95	703	252.95	298	275.90	3254

Average of 3.337 to 3.348 min.: P105949.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.90	2602	313.90	282	345.90	324	401.90	522
278.00	304	314.85	1050	351.90	862	402.95	482
278.90	119	315.90	507	352.95	415	403.80	160
283.00	163	320.90	177	353.95	792	420.95	684

284.80	149	322.90	2681	355.00	136	421.90	706
292.95	678	323.95	612	364.90	3563	422.80	547
295.90	9085	326.90	292	365.95	366	422.95	2579
296.85	1191	332.80	129	370.80	136	423.90	794
301.80	132	333.90	1598	371.90	1316	440.90	10672
302.85	920	334.90	181	372.85	244	441.90	66328
303.90	128	340.90	126	389.80	123	442.95	13450

Average of 3.337 to 3.348 min.: P105949.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
443.90	1329						

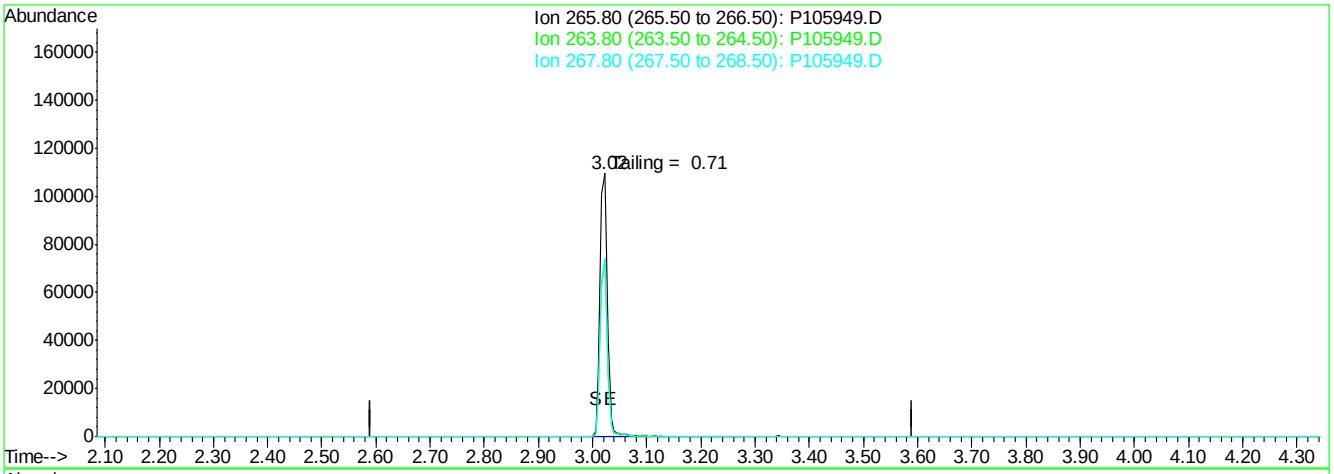
7.5.15

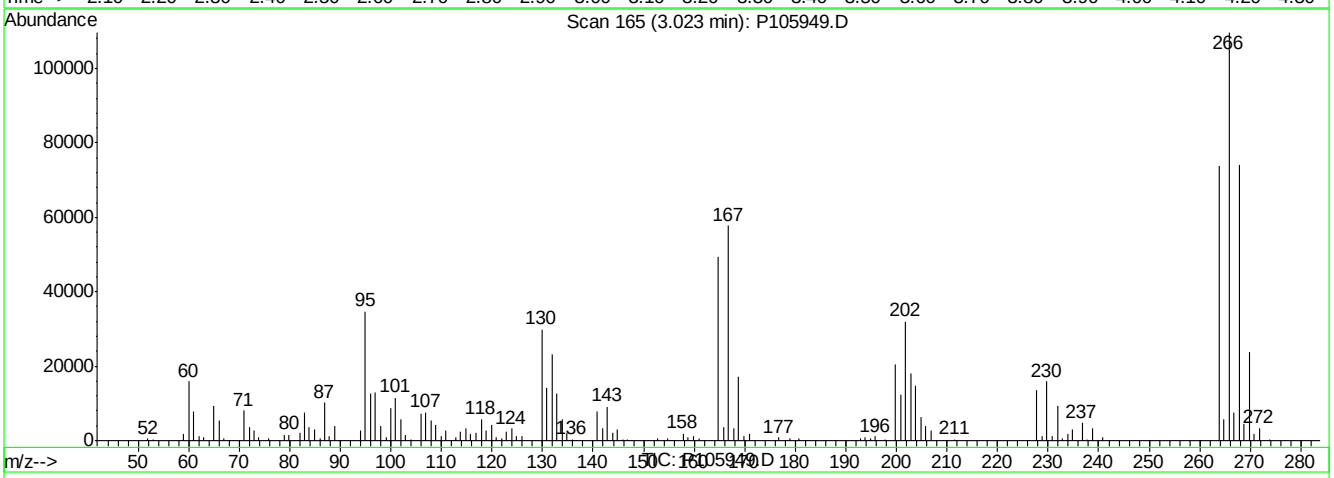
7

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4679\P105949.D Vial: 1
Acq On : 8 Jul 2016 10:52 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4679 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 10:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(1) Pentachlorophenol (t)

3.02min 362.54ppb

response 100246

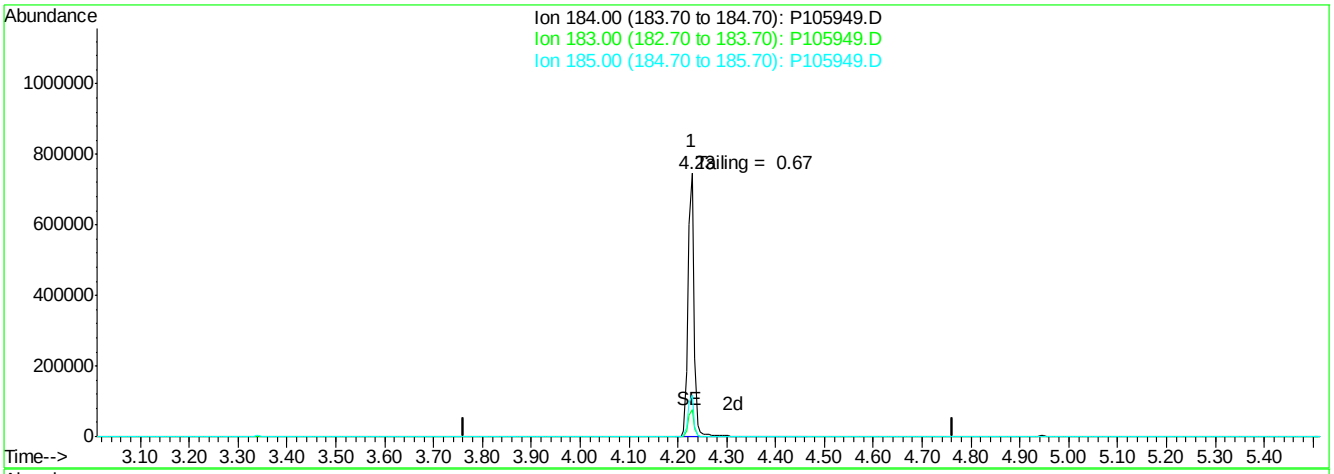
Ion	Exp%	Act%
265.80	100	100
263.80	67.60	67.26
267.80	69.90	67.49
0.00	0.00	0.00

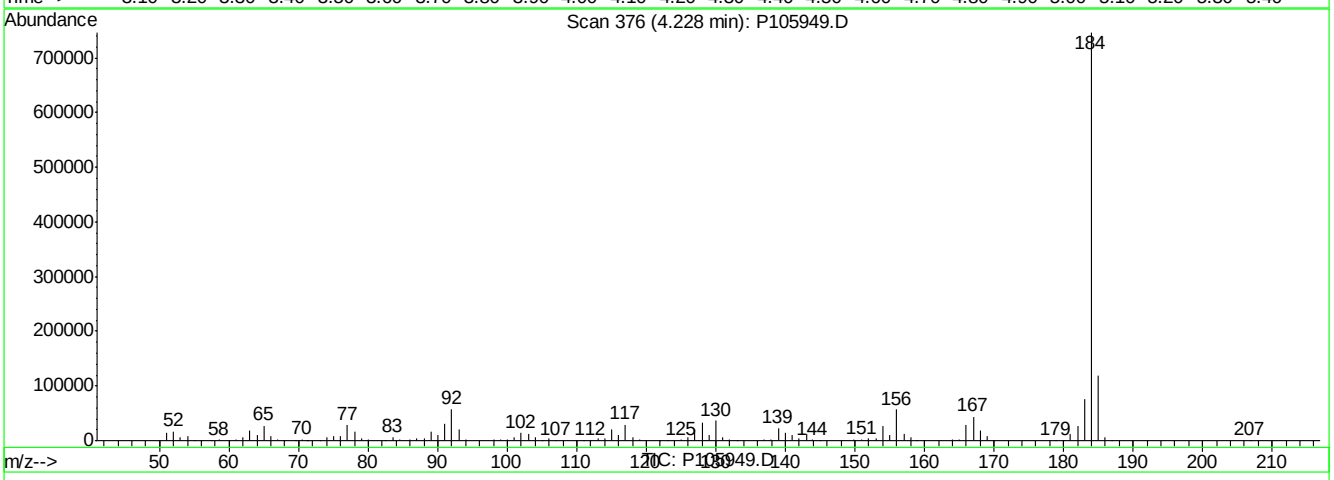
P105949.D DFTPPP.M Fri Jul 08 14:48:31 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4679\P105949.D Vial: 1
Acq On : 8 Jul 2016 10:52 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4679 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 10:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(2) Benzidine (t)

4.23min 223.62ppb

response 635676

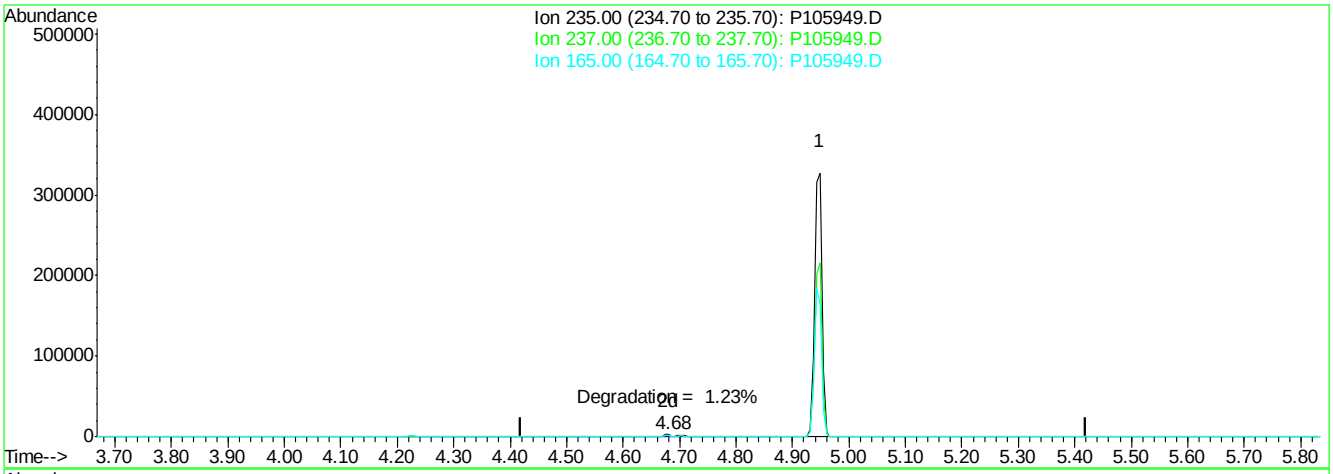
Ion	Exp%	Act%
184.00	100	100
183.00	10.20	9.96
185.00	13.60	15.22
0.00	0.00	0.00

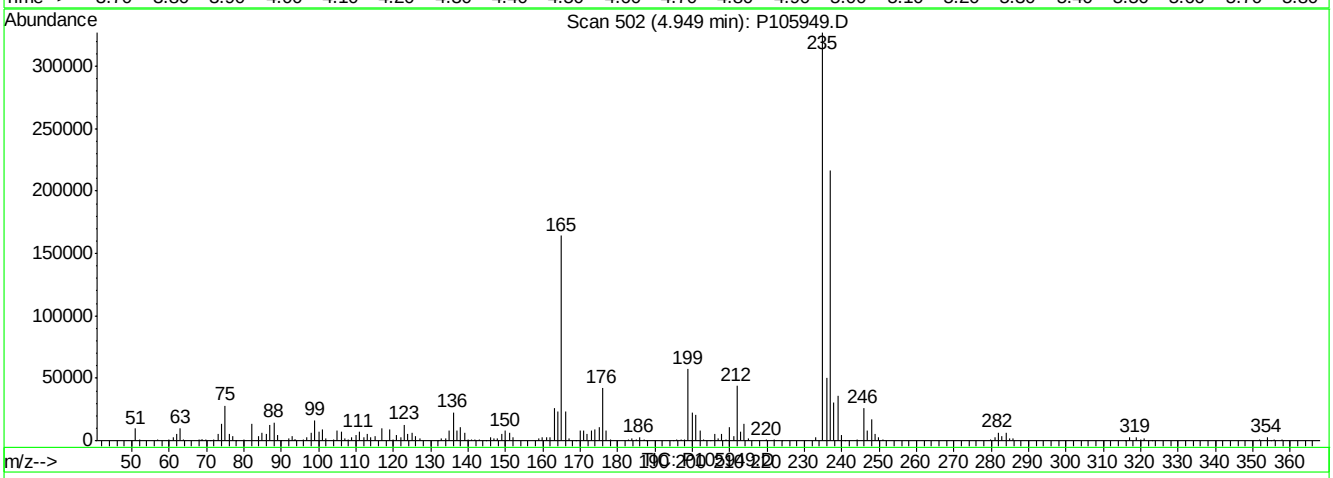
P105949.D DFTPPP.M Fri Jul 08 14:48:41 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4679\P105949.D Vial: 1
Acq On : 8 Jul 2016 10:52 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4679 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 8 10:58 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\DFTPPP.M (RTE Integrator)
Title : Semi Volatile GC/MS, ZB-5MSi 30m x .25mm x .25um
Last Update : Thu Jun 02 07:47:24 2016
Response via : Single Level Calibration





(3) ddt

4.95min 220.43ppb

response 286621

Ion	Exp%	Act%
235.00	100	100
237.00	55.80	64.80
165.00	51.00	54.55
0.00	0.00	0.00

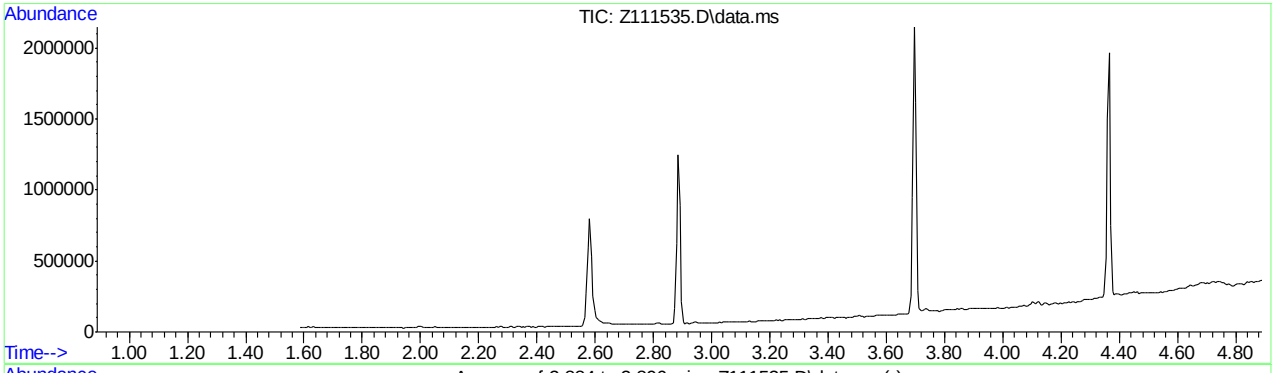
P105949.D DFTPPP.M Fri Jul 08 14:48:55 2016

DFTPP

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111535.D
Acq On : 14 Jun 2016 4:45 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5571
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015



AutoFind: Scans 228, 229, 230; Background Corrected with Scan 221

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.0	29438	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.6	39510	PASS
70	69	0.00	2	0.9	349	PASS
127	198	40	60	51.3	44444	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	86608	PASS
199	198	5	9	6.9	5940	PASS
275	198	10	30	26.0	22498	PASS
365	198	1	100	2.8	2415	PASS
441	443	0.01	100	79.4	7599	PASS
442	198	40	100	59.0	51104	PASS
443	442	17	23	18.7	9567	PASS

DFTPPZ.M Wed Jun 15 08:08:28 2016 RTE

Page: 1

SGS ACCUTEST JC23443

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	8341	61.10	550	72.05	72	83.10	796
51.10	29438	62.05	342	73.10	392	85.10	459
52.10	1423	63.05	1289	74.10	3653	86.00	728
53.15	181	64.10	284	75.05	5647	87.05	348
54.30	104	65.10	667	76.05	1407	88.00	162
55.15	195	66.00	7	77.10	39199	89.05	133
56.10	953	66.30	71	78.10	2817	90.00	42
57.10	2080	67.15	119	79.05	2533	91.10	786
58.10	117	69.10	39510	80.10	2164	92.10	663
59.10	13	70.10	349	81.10	3077	93.10	4786
60.05	29	71.90	44	82.00	713	94.00	121

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.20	52	105.10	932	114.90	81	124.00	347
95.10	47	106.10	64	116.10	747	125.00	502
96.15	206	107.10	11926	117.10	8353	127.05	44444
97.15	352	108.10	1709	118.10	721	128.00	3443
98.10	3152	110.10	22027	119.10	161	129.05	16760
99.10	2428	111.10	3329	120.00	88	130.05	1460
100.25	305	111.90	206	120.20	29	131.15	211
101.05	1328	112.10	43	120.50	54	132.10	283
102.05	140	113.20	164	120.95	178	133.25	222
103.05	694	114.05	12	122.10	848	134.05	538
104.10	1184	114.50	21	123.10	1026	135.05	1188

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
136.05	617	145.05	144	154.10	428	162.20	203
137.15	528	146.10	152	155.10	1164	163.15	110
137.80	50	146.40	41	156.10	1654	164.00	117
138.05	149	147.05	1301	157.10	496	165.05	737
139.05	248	148.00	2003	158.00	418	166.10	799
140.15	92	149.05	395	158.30	49	167.10	4193
141.05	2266	150.05	124	158.50	50	168.10	1955
142.05	565	151.20	169	159.10	292	169.00	331
143.00	402	151.60	49	160.05	443	169.30	67
144.10	181	152.05	172	161.10	1022	169.90	35
144.70	71	153.05	646	161.95	75	170.30	147

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.10	37	181.05	831	188.05	329	200.05	367
172.05	444	182.05	269	189.05	833	201.50	551
173.05	486	182.90	114	190.20	118	202.05	124
174.05	775	183.10	115	191.15	263	202.90	572
175.10	1545	183.30	7	192.10	969	203.30	89
176.10	653	183.90	162	193.10	1004	204.05	3103
177.05	796	184.15	238	194.05	289	205.10	5473
178.10	69	185.10	1833	195.00	190	206.05	22122
178.30	77	186.05	12402	196.10	3077	207.05	3052
179.00	3055	187.00	3255	198.00	86608	208.05	593
180.10	2254	187.80	33	199.00	5940	209.05	275

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.00	140	219.10	66	230.00	248	240.20	46
210.30	49	221.10	5228	231.10	607	241.05	343
211.05	1042	221.70	796	232.15	126	242.10	727
212.25	91	222.00	339	232.90	20	243.10	858

DFTPPZ.M Wed Jun 15 08:08:28 2016 RTE Page: 2

213.25	117	223.10	1551	233.15	43	244.10	9805
213.90	40	224.05	12130	234.05	425	245.15	1337
215.00	168	225.10	3304	235.05	543	246.10	1842
215.80	56	226.05	436	236.15	322	247.10	454
216.05	189	227.05	4641	237.05	400	248.15	238
217.00	5411	228.00	764	239.10	210	249.10	177
218.00	587	229.05	937	239.95	53	250.10	157

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.90	183	262.10	21	272.10	171	281.20	37
251.10	26	263.20	53	273.10	1715	282.05	18
252.25	325	263.90	113	273.35	31	282.40	26
253.15	385	265.00	1210	274.10	3955	283.10	79
255.10	48618	266.05	192	275.10	22498	284.10	100
256.10	7369	267.05	92	276.05	2810	284.60	21
257.05	589	267.40	46	277.10	1854	285.00	390
258.10	2199	267.80	74	278.05	147	286.00	30
259.05	469	269.20	135	279.05	160	286.25	80
260.00	168	269.95	162	280.00	18	287.15	47
261.10	100	271.05	211	280.20	17	288.05	80

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
288.95	78	297.10	712	307.25	46	314.30	89
289.30	1	297.90	25	307.70	36	315.00	609
289.80	48	298.15	142	309.20	130	315.95	367
290.05	65	300.00	29	310.10	61	317.00	36
290.40	31	301.10	197	310.40	43	317.20	84
291.05	91	302.10	220	311.05	132	318.30	33
292.05	109	303.10	739	312.00	70	319.05	54
292.30	57	304.05	133	312.50	32	319.30	21
293.05	462	305.00	29	312.80	42	320.05	83
294.00	37	305.60	25	313.25	90	321.10	136
296.05	5323	306.00	16	314.10	219	322.00	72

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
323.10	1917	331.50	24	342.25	15	352.05	465
324.05	462	332.10	103	342.80	34	353.15	446
325.00	25	333.00	137	343.20	65	354.15	616
326.10	2	333.20	124	344.90	44	354.80	35
327.00	434	334.10	1188	346.05	380	355.05	114
328.10	213	335.10	304	346.70	49	356.00	48
329.10	22	336.10	88	347.15	114	357.10	34
329.30	46	337.15	65	349.30	34	357.30	48
329.80	47	339.10	159	350.50	24	357.70	23
330.15	49	339.95	58	351.10	36	358.30	30
331.20	30	341.10	228	351.50	21	358.80	22

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
360.25	74	368.80	24	378.10	22	387.80	24
361.00	27	369.20	48	379.20	33	388.20	17
361.60	27	370.25	57	380.20	36	389.20	22
362.25	46	371.10	249	381.80	33	389.40	22
362.50	22	372.10	1035	383.10	238	390.15	132
362.95	51	373.10	204	383.90	45	391.05	83
363.20	27	373.80	36	384.05	71	391.95	63
363.95	147	374.20	19	384.90	16	392.60	22
365.00	2415	375.00	19	385.30	21	393.20	23
366.00	287	375.90	29	386.70	27	396.20	30
367.30	24	377.20	84	387.20	17	396.90	21

Average of 2.884 to 2.896 min.: Z111535.D\data.ms

DFTPPZ.M Wed Jun 15 08:08:28 2016 RTE Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
400.60	18	415.60	25	425.00	30	431.20	31
400.90	49	415.90	18	425.30	57	431.60	32
402.05	470	416.40	20	426.00	21	431.90	76
403.00	455	416.90	17	426.50	18	432.40	22
404.05	264	418.60	17	427.50	35	432.80	59
405.40	21	419.55	96	428.80	34	433.80	43
408.90	21	420.40	43	429.30	28	434.60	146
410.10	35	421.05	520	429.45	75	434.90	29
411.30	18	422.10	445	430.10	31	435.40	82
413.40	20	423.10	2907	430.40	22	435.70	72
415.05	51	424.10	569	430.70	66	436.00	64

Average of 2.884 to 2.896 min.: Z111535.D\data.ms
dftpp
Modified:subtracted

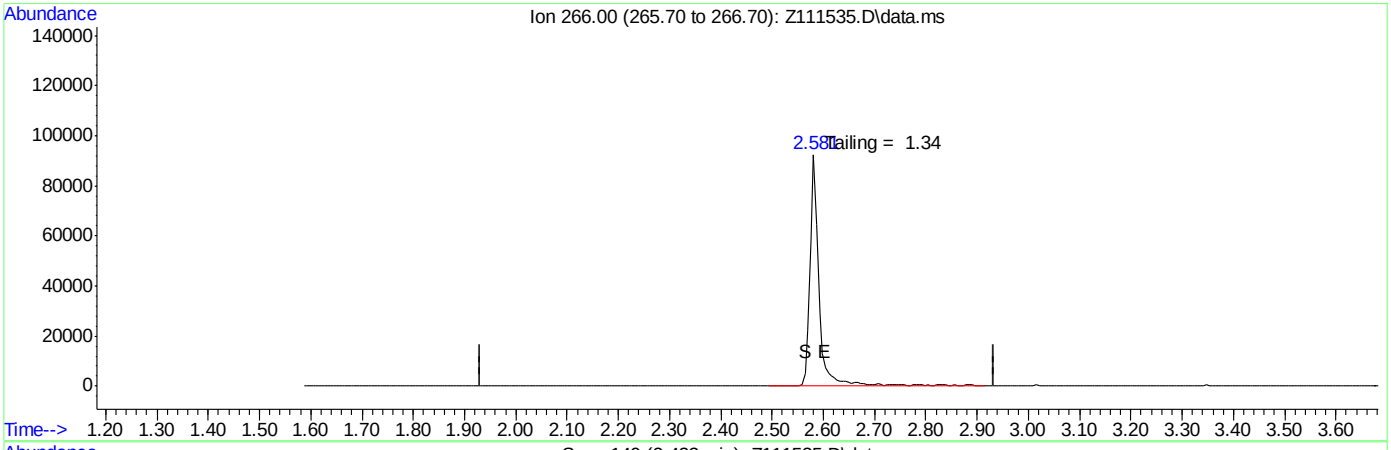
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
436.35	79	442.10	51104	468.60	17	498.60	20
436.95	152	443.10	9567	470.50	19	507.00	16
437.20	53	444.10	848	475.30	17	516.30	18
437.70	164	445.05	75	479.25	40	516.90	21
438.30	213	446.10	27	484.10	18	522.35	40
438.50	141	447.50	28	488.20	24	526.50	27
438.70	145	458.20	17	489.60	19	530.30	41
439.15	207	460.40	33	492.50	17	531.60	25
439.50	165	462.10	31	494.30	17	533.60	21
439.75	1	467.50	37	494.60	20	545.70	25
441.10	7599	468.30	17	497.10	17	549.80	24

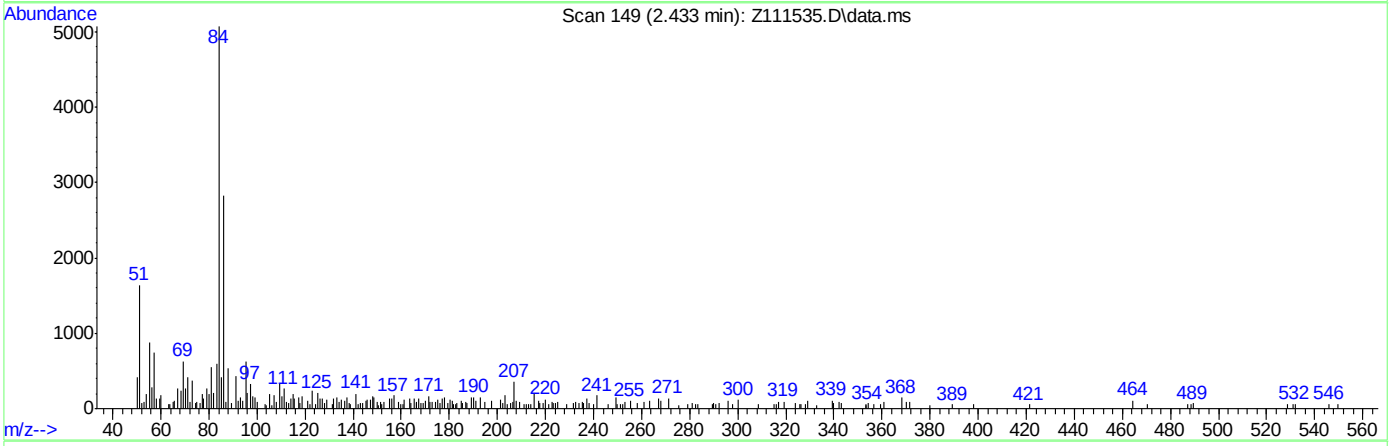
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111535.D
Acq On : 14 Jun 2016 4:45 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5571
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 16:51:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111535.D\data.ms

(1) Pentachlorophenol

2.433min (-2.433) 0.00

response 0

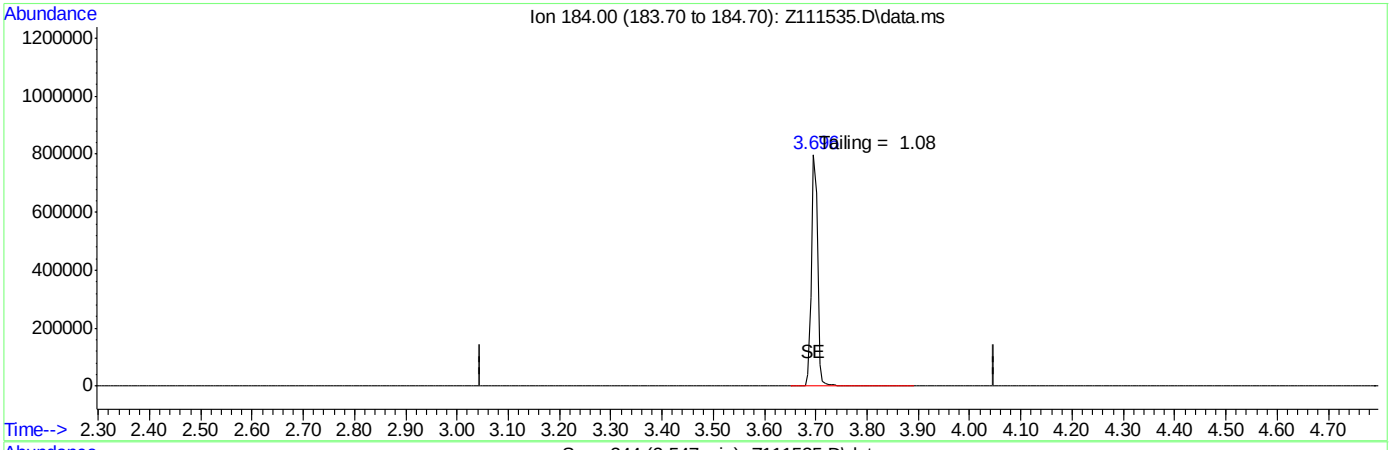
Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

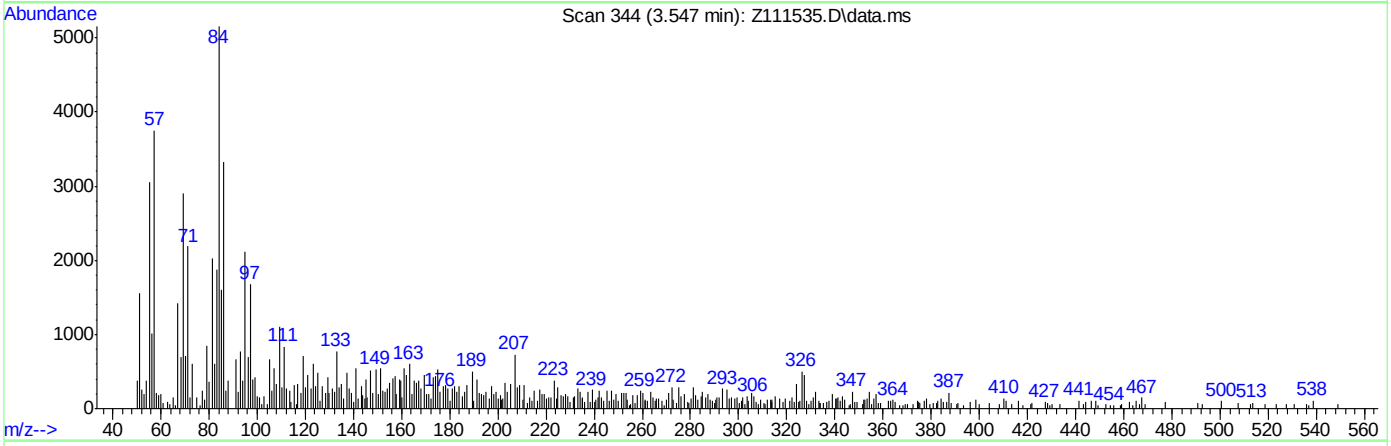
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111535.D
Acq On : 14 Jun 2016 4:45 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5571
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 16:51:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111535.D\data.ms

(2) Benzidine

3.547min (-3.547) 0.00

response 0

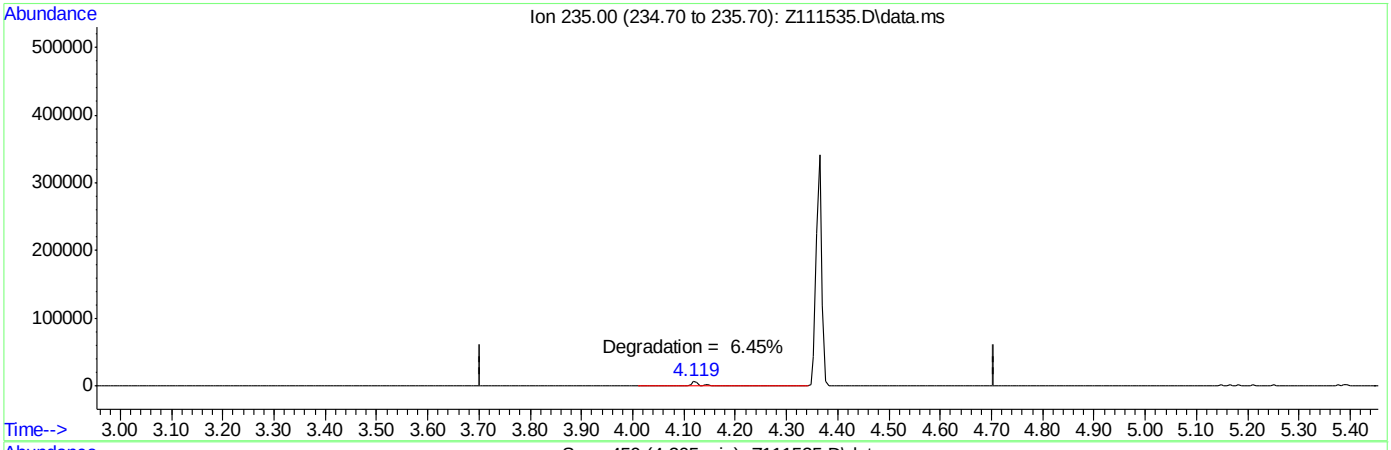
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

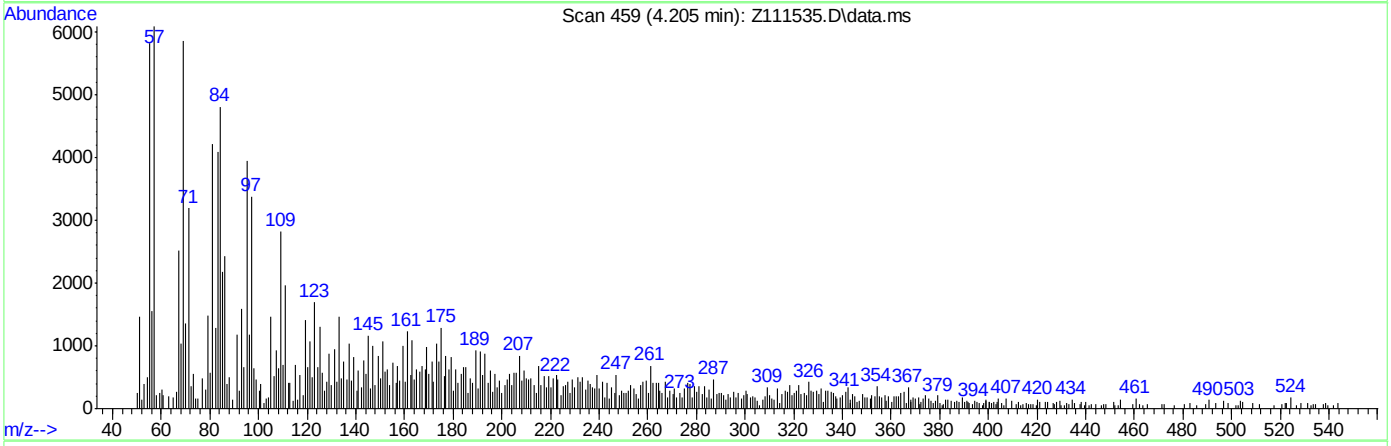
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111535.D
Acq On    : 14 Jun 2016   4:45 pm
Operator  : seanb1
Sample    : dftpp
Misc      : op94271,ez5571
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jun 14 16:51:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title  : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration
```





TIC: Z111535.D\data.ms

(3) PP-DDT

4.205min (-4.205) 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

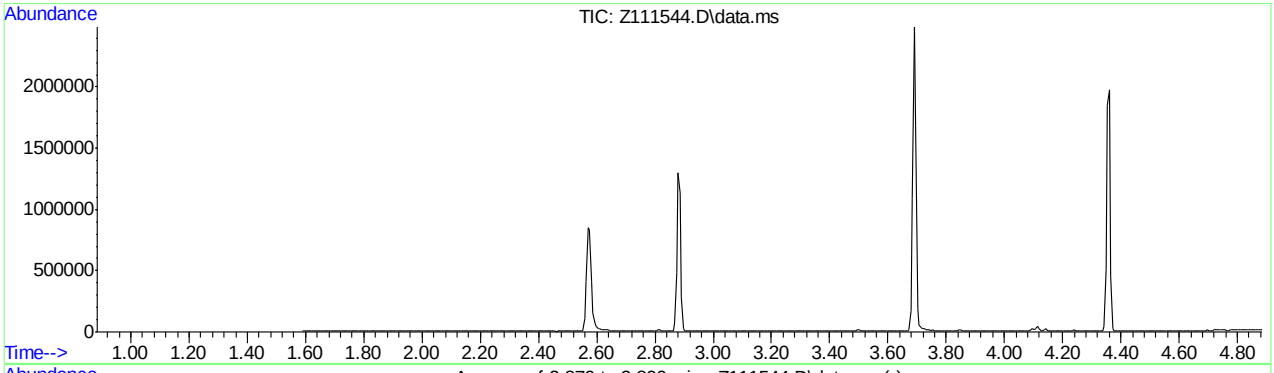
SGS ACCUTEST JC23443

DFTPP

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111544.D
Acq On : 15 Jun 2016 8:04 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5573
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015



AutoFind: Scans 227, 228, 229; Background Corrected with Scan 222

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.2	38028	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.8	51339	PASS
70	69	0.00	2	0.5	263	PASS
127	198	40	60	52.7	55433	PASS
197	198	0.00	1	0.7	715	PASS
198	198	100	100	100.0	105096	PASS
199	198	5	9	6.8	7180	PASS
275	198	10	30	25.3	26557	PASS
365	198	1	100	2.7	2862	PASS
441	443	0.01	100	79.5	9512	PASS
442	198	40	100	59.2	62213	PASS
443	442	17	23	19.2	11967	PASS

DFTPPZ.M Fri Jun 17 17:06:42 2016 RTE

Page: 1

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.15	10213	62.20	684	74.10	4600	84.15	110
51.05	38028	63.05	1560	75.10	7625	85.10	718
52.15	1971	64.10	360	76.20	1390	86.10	1082
53.05	154	65.20	913	77.05	48990	87.05	452
54.00	23	66.25	102	78.10	3337	88.05	250
55.10	292	67.15	123	79.10	3737	89.10	125
56.10	1444	69.05	51339	80.10	2785	89.70	24
57.10	2766	70.15	263	81.05	3885	90.20	60
58.20	137	71.90	25	82.10	995	91.05	710
59.20	49	72.20	27	83.05	875	92.10	914
61.05	541	73.05	183	83.90	111	93.10	5407

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.10	444	103.05	595	114.05	69	124.10	732
94.50	25	104.00	1208	114.70	41	125.00	391
95.10	120	105.10	1165	115.10	194	125.20	302
96.00	181	107.05	14923	116.05	455	127.10	55433
96.60	20	108.10	2265	117.05	10327	128.10	4567
97.20	37	108.90	51	118.10	840	129.05	20998
98.10	3854	110.10	28114	119.05	158	130.00	1731
99.05	3182	111.10	3931	120.00	133	131.10	327
100.00	394	112.10	560	121.00	69	132.05	308
101.05	1660	113.00	101	122.10	1150	132.90	81
102.00	54	113.20	60	123.10	1423	133.20	31

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.00	661	143.95	198	152.10	300	163.00	65
135.05	1506	144.95	108	153.10	799	163.90	64
136.05	501	145.20	64	154.05	584	164.10	135
137.10	914	145.95	336	155.10	1471	165.10	900
137.90	77	147.10	1251	156.10	2182	166.05	708
138.20	118	148.10	3057	157.10	458	167.05	5024
138.85	65	149.10	555	158.05	552	168.10	2338
139.95	127	150.10	251	159.05	313	169.10	339
141.10	2677	150.90	34	160.10	733	170.15	142
142.00	779	151.20	222	161.10	1176	170.70	67
143.10	599	151.60	194	162.05	352	171.05	244

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.10	425	183.00	136	190.95	291	201.55	577
173.05	641	183.60	20	191.20	37	202.20	159
174.10	976	184.05	343	192.05	1109	203.05	909
175.10	1939	184.30	57	193.10	1428	204.10	3573
176.10	619	185.10	1830	194.15	362	205.10	6525
177.05	1088	186.10	15122	196.05	4071	206.10	27207
178.00	347	187.10	3904	196.80	715	207.10	3430
179.05	3870	188.15	486	198.00	105096	208.00	832
180.10	2461	189.05	887	199.05	7180	209.10	285
181.05	1114	189.80	37	199.85	201	209.40	31
182.00	332	190.05	235	200.10	293	210.00	172

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
210.50	105	218.10	922	229.00	1346	237.95	63
210.90	501	219.00	127	230.05	190	239.05	325
211.10	1084	219.90	17	231.10	535	239.70	53
212.05	283	221.10	6088	232.15	109	240.00	51

DFTPPZ.M Fri Jun 17 17:06:42 2016 RTE Page: 2

212.90	140	222.10	47	233.00	46	241.10	348
213.10	27	223.10	1697	233.20	64	242.10	932
213.70	28	224.10	14617	234.05	394	243.15	1074
214.80	32	225.10	3828	235.00	322	244.10	11791
215.05	311	226.10	195	235.20	33	245.15	1463
216.15	679	227.10	5909	236.00	169	246.05	2092
217.05	6643	228.05	807	237.05	586	247.05	429

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
248.10	149	259.10	579	267.85	41	277.05	2012
249.00	440	259.70	27	268.85	2	277.80	55
249.95	111	260.05	102	269.40	29	278.05	285
251.05	151	260.95	65	270.00	133	278.90	59
252.05	270	261.80	26	270.90	80	279.20	19
252.80	101	263.10	31	271.10	32	280.00	18
253.10	196	263.70	79	272.10	297	281.00	43
255.10	56610	264.15	144	273.05	1949	282.05	64
256.05	8815	265.05	1351	274.10	5200	283.10	266
257.05	618	266.10	242	275.10	26557	284.00	198
258.10	3164	267.10	40	276.10	3451	285.05	313

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
285.90	37	292.10	100	303.10	894	313.00	45
286.30	60	293.05	493	304.00	291	314.10	353
287.00	21	294.00	135	305.00	17	315.00	911
288.00	42	296.00	6287	306.60	23	316.20	405
288.20	34	297.00	782	307.00	16	316.90	108
288.85	74	298.15	56	307.90	81	319.25	69
289.20	54	298.70	21	308.50	22	320.00	23
289.70	17	300.60	23	309.10	21	320.30	27
290.10	72	301.00	21	310.10	122	321.05	323
290.85	39	301.20	59	310.60	24	322.10	116
291.70	21	302.05	222	312.00	39	323.10	2203

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
324.15	426	332.15	197	340.30	43	350.90	52
325.00	28	332.90	47	340.90	28	352.10	747
325.40	26	333.15	197	341.15	171	353.05	465
325.95	79	334.10	1320	341.80	18	354.10	713
326.30	17	335.00	343	342.05	115	355.15	125
327.00	311	335.20	56	342.90	24	357.20	19
327.20	47	335.80	20	346.05	453	357.90	22
328.00	139	336.00	17	346.85	91	358.60	17
328.90	65	336.20	34	348.80	24	358.90	25
330.45	35	338.70	25	349.60	30	359.60	28
331.00	33	339.40	31	350.60	22	360.20	26

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
360.90	19	371.00	144	383.00	314	393.90	21
361.35	60	371.30	59	384.05	72	394.20	18
362.30	59	372.10	864	385.00	82	395.20	30
363.00	32	373.05	229	388.90	17	400.20	24
363.50	43	374.00	40	389.20	19	400.80	46
365.05	2862	374.30	39	389.90	68	401.00	32
365.95	473	377.10	23	390.10	80	402.05	493
366.90	39	377.90	17	390.40	31	403.00	527
368.10	20	378.20	20	391.00	141	404.15	195
368.50	33	381.90	34	392.05	150	415.05	50
369.95	104	382.20	19	393.20	17	416.00	26

Average of 2.879 to 2.890 min.: Z111544.D\data.ms

DFTPPZ.M Fri Jun 17 17:06:42 2016 RTE Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
416.60	24	426.50	17	432.50	36	438.40	406
417.00	18	427.00	21	432.90	31	438.85	306
417.90	27	427.30	66	433.25	73	439.10	171
419.25	58	427.60	23	433.55	69	439.40	342
420.00	22	428.00	20	434.35	129	439.80	308
421.05	536	429.00	24	435.40	42	440.10	164
422.10	418	429.45	62	435.75	118	441.10	9512
423.05	3371	430.30	42	436.30	65	442.10	62213
424.05	782	430.90	75	436.65	117	443.10	11967
425.00	134	431.70	38	437.30	109	444.10	1220
426.20	23	432.10	16	437.50	152	445.15	116

Average of 2.879 to 2.890 min.: Z111544.D\data.ms
dftpp
Modified:subtracted

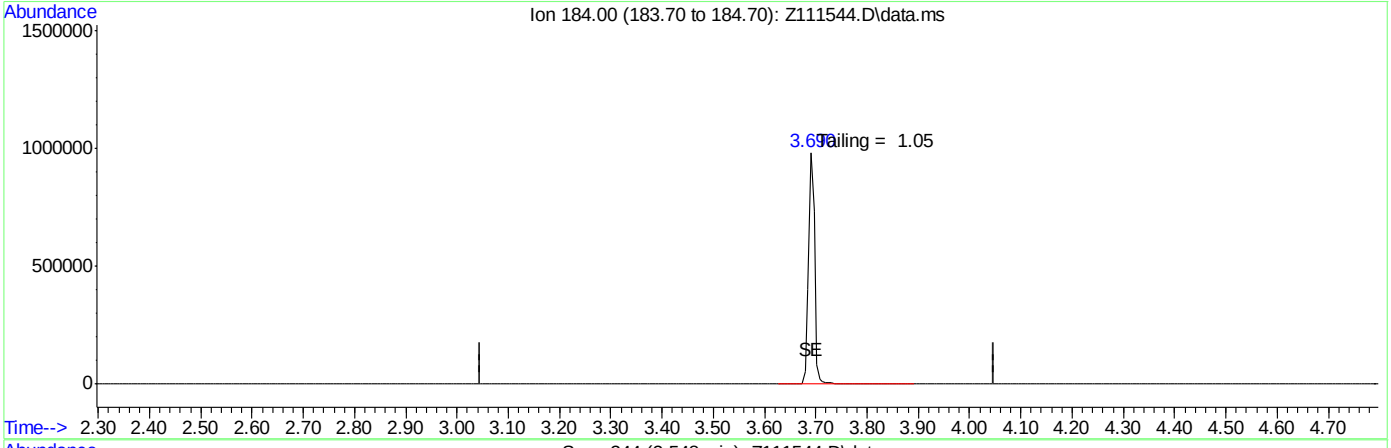
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
449.70	17	495.20	22				
452.00	18	504.50	39				
452.40	28	511.40	21				
456.40	18	529.60	25				
457.70	28	540.40	24				
465.70	34	541.00	20				
469.30	18	549.30	22				
476.90	18						
487.10	25						
489.60	17						
492.40	26						

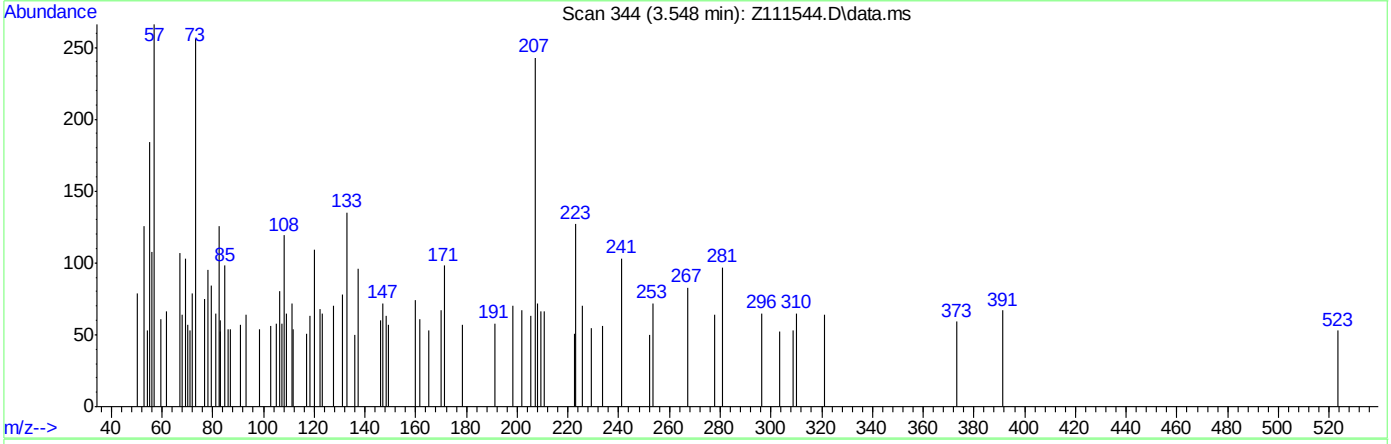
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111544.D
Acq On : 15 Jun 2016 8:04 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5573
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 08:10:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111544.D\data.ms

(2) Benzidine

3.547min (-3.547) 0.00

response 0

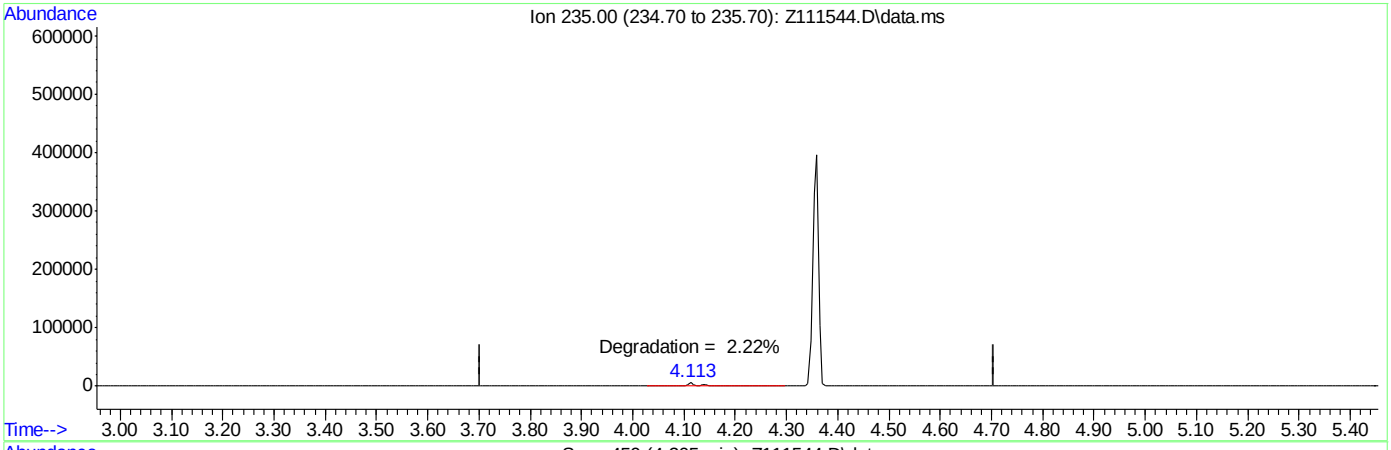
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

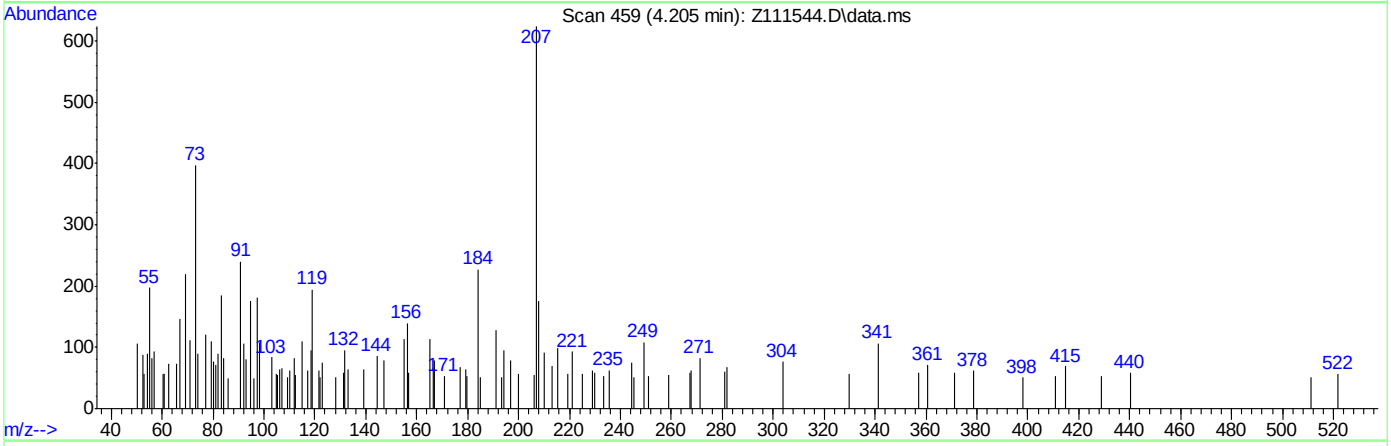
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111544.D
Acq On : 15 Jun 2016 8:04 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5573
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 08:10:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111544.D\data.ms

(3) PP-DDT

4.205min (-4.205) 0.00

response 0

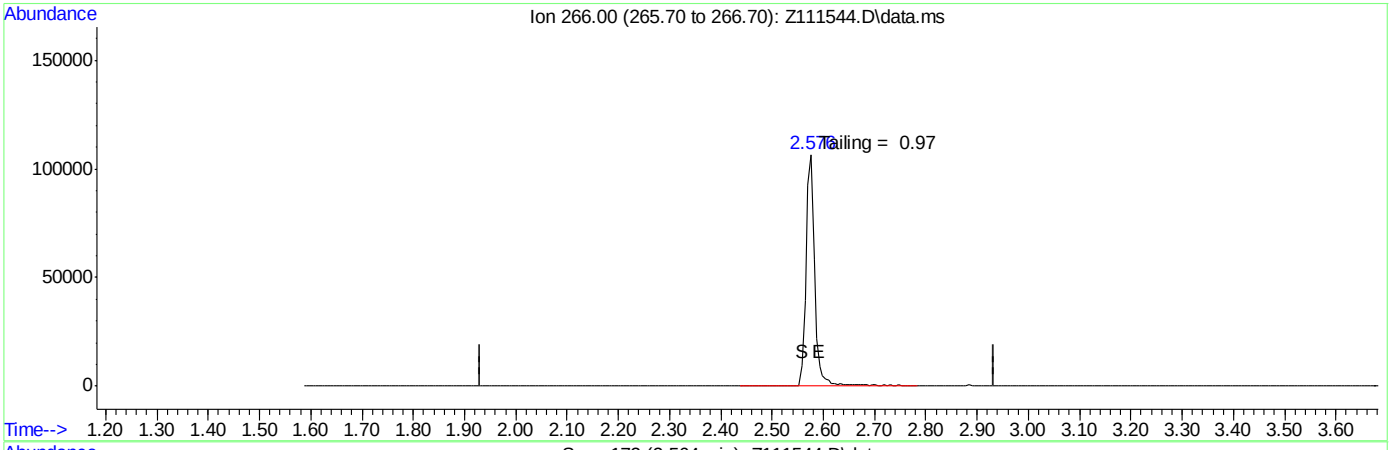
Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

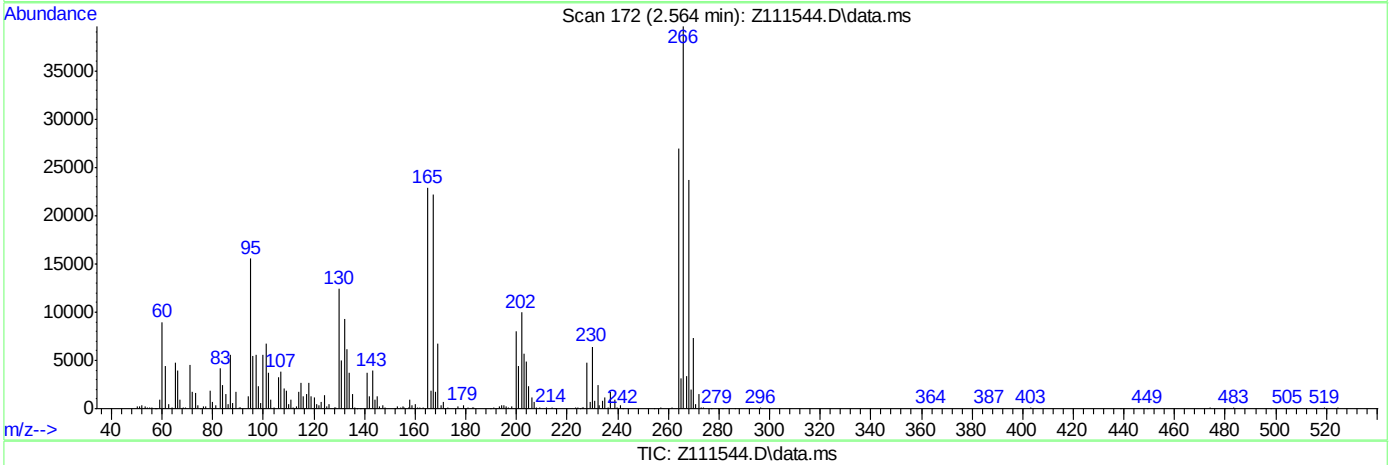
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111544.D
Acq On : 15 Jun 2016 8:04 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5573
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 08:10:28 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111544.D\data.ms

(1) Pentachlorophenol

2.433min (-2.433) 0.00

response 0

Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

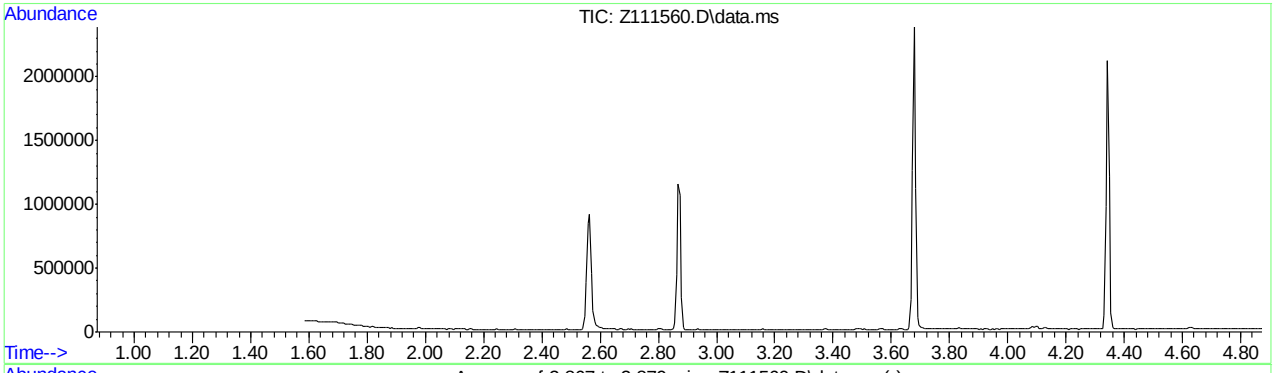
SGS ACCUTEST JC23443

DFTPP

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111560.D
Acq On : 15 Jun 2016 4:41 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5574
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015



AutoFind: Scans 225, 226, 227; Background Corrected with Scan 219

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.4	34192	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	48.5	46850	PASS
70	69	0.00	2	0.2	93	PASS
127	198	40	60	52.3	50554	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	96581	PASS
199	198	5	9	6.9	6659	PASS
275	198	10	30	24.4	23571	PASS
365	198	1	100	2.6	2533	PASS
441	443	0.01	100	79.6	8159	PASS
442	198	40	100	57.0	55053	PASS
443	442	17	23	18.6	10251	PASS

SGS ACCUTEST JC23443

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	9172	61.10	553	73.10	292	83.10	932
51.10	34192	62.15	660	73.30	95	85.05	794
52.10	1829	63.10	1422	74.10	4328	86.05	789
53.05	62	64.10	178	75.10	6965	87.00	357
54.00	19	65.10	911	76.15	1250	88.05	192
55.15	265	66.10	41	77.05	44894	89.00	22
56.05	1262	66.90	79	78.15	3366	89.50	18
57.10	2361	67.10	94	79.10	3109	91.10	886
58.10	33	69.10	46850	80.10	2143	92.15	881
59.05	63	70.10	93	81.10	3115	93.10	5106
59.30	30	70.30	63	82.05	815	94.05	214

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.10	253	105.10	1068	118.10	824	128.10	3778
96.15	338	107.05	13623	119.00	79	129.05	18934
96.50	49	108.10	2148	120.10	267	130.05	1531
98.10	3508	110.10	25192	120.90	89	131.00	380
99.10	2942	111.10	3709	122.10	808	132.10	128
100.00	140	112.10	439	123.05	1265	132.45	88
100.20	138	113.00	195	124.10	634	132.80	84
101.10	1775	114.05	78	124.80	33	134.05	535
102.05	111	115.05	77	125.10	640	135.05	1389
103.10	783	116.20	314	125.30	36	136.00	516
104.00	1205	117.05	9745	127.10	50554	137.05	569

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
138.05	143	146.05	480	155.10	1422	166.05	765
138.70	48	147.10	1065	156.10	1796	167.10	4385
139.00	64	148.10	2509	157.05	408	168.10	2206
139.30	67	149.05	575	158.05	471	169.05	292
140.20	344	150.00	183	159.00	283	170.05	186
141.10	2067	151.20	435	160.00	709	171.10	295
142.05	715	151.95	235	161.10	1108	172.05	344
143.00	658	152.30	21	162.05	331	173.05	628
144.00	61	153.00	874	163.00	104	174.10	1051
144.30	57	153.80	73	164.05	127	174.70	57
144.90	120	154.15	571	165.00	1001	175.10	1697

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.10	807	183.60	29	194.05	278	204.10	3224
177.05	782	184.10	364	194.40	18	205.10	6167
177.60	22	185.10	1918	195.05	117	206.10	24092
178.00	68	186.10	13817	196.05	3373	207.05	2839
178.20	256	187.10	3818	196.50	122	208.05	783
179.05	3276	188.10	400	198.00	96581	209.00	238
180.10	2183	189.10	840	199.00	6659	210.20	247
181.10	1261	190.00	117	200.10	547	211.05	977
182.05	200	191.05	327	201.40	216	211.70	189
182.30	22	192.10	1189	201.55	386	212.05	126
183.10	66	193.10	1166	203.10	658	212.80	17

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
213.15	19	224.10	13200	235.00	449	243.15	957
213.80	25	225.10	3197	236.00	294	244.10	11087
214.90	113	226.10	77	237.00	186	245.10	1387
215.15	187	227.10	5079	237.15	206	246.10	1908

DFTPPZ.M Fri Jun 17 17:13:35 2016 RTE Page: 2

216.00	525	228.10	772	237.80	38	246.90	133
217.00	5909	229.05	1277	237.95	74	247.05	219
218.00	748	229.95	180	239.00	189	247.70	33
219.00	92	231.05	649	239.90	34	248.15	142
221.10	5602	232.15	75	240.15	165	249.00	451
222.10	430	233.05	170	241.10	380	249.90	50
223.10	1334	234.05	355	242.10	838	251.00	65

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
251.35	20	262.30	24	271.10	154	279.80	22
252.10	209	262.95	67	271.30	20	280.20	19
252.90	43	263.20	18	272.00	85	280.80	60
253.10	431	265.05	1364	273.05	1716	281.10	36
255.10	52904	266.00	308	273.30	222	282.00	50
256.10	7591	266.85	43	274.10	4739	282.30	26
257.15	687	267.10	63	275.10	23571	283.10	189
258.10	2850	267.75	105	276.10	3380	283.30	48
259.05	496	268.40	20	277.00	1702	284.05	184
259.95	93	269.25	82	278.00	382	285.10	251
261.05	89	270.05	153	278.95	102	285.85	46

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
288.00	23	298.10	24	305.00	50	315.90	150
288.85	147	299.00	17	307.10	23	316.10	292
290.00	28	299.70	19	308.05	102	316.90	38
290.25	62	300.20	23	308.85	51	317.40	23
290.95	55	300.80	19	309.80	43	319.00	27
291.70	67	301.10	35	310.00	72	320.10	84
291.95	74	301.30	36	310.90	20	320.70	56
293.05	384	302.15	15	312.80	29	321.00	182
294.05	112	303.05	699	313.00	27	321.95	118
296.05	6063	304.00	160	314.05	366	323.10	2139
297.05	740	304.20	49	315.05	763	324.10	409

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
325.05	50	335.15	257	347.10	34	356.90	26
326.10	37	335.90	30	347.80	24	357.70	27
327.05	344	337.70	37	348.80	29	358.20	30
327.70	61	338.90	76	350.00	33	359.05	67
328.10	201	339.85	102	350.80	27	359.80	19
329.20	31	340.50	20	351.20	25	360.50	21
330.30	54	341.10	246	352.00	544	361.80	20
331.80	50	342.10	20	353.10	479	362.60	24
332.20	98	342.90	20	354.10	725	363.25	74
333.10	242	343.70	18	355.00	48	363.60	25
334.05	1257	346.10	488	355.15	119	364.00	77

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
365.00	2533	376.20	21	392.30	21	407.60	19
366.05	384	376.50	21	393.20	23	412.40	18
366.95	58	377.40	26	397.70	24	415.10	29
369.10	23	381.80	23	399.70	17	416.00	19
369.30	22	382.95	297	399.90	26	416.70	26
369.85	67	384.05	53	400.60	39	417.60	18
371.05	143	386.50	20	401.10	62	418.20	24
371.30	66	390.00	109	402.10	371	418.40	35
372.10	1046	390.30	29	403.05	481	418.70	31
373.15	228	391.05	111	404.10	141	419.30	42
374.05	39	391.95	48	404.30	42	419.60	28

Average of 2.867 to 2.879 min.: Z111560.D\data.ms

DFTPPZ.M Fri Jun 17 17:13:35 2016 RTE Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
419.80	17	430.25	94	436.40	326	444.10	897
420.20	49	431.25	79	437.30	45	444.90	40
421.00	383	432.00	47	437.60	252	456.90	24
421.20	157	432.40	71	438.20	277	473.10	20
422.10	587	433.25	61	438.45	188	473.40	16
423.10	2970	433.50	50	439.00	201	474.50	21
424.15	752	434.10	33	439.30	106	475.30	28
424.95	62	434.35	82	439.90	172	485.00	19
425.30	39	435.05	124	441.10	8159	492.00	16
426.00	37	435.50	76	442.10	55053	507.50	17
429.40	27	435.90	19	443.10	10251	513.70	21

Average of 2.867 to 2.879 min.: Z111560.D\data.ms
dftpp
Modified:subtracted

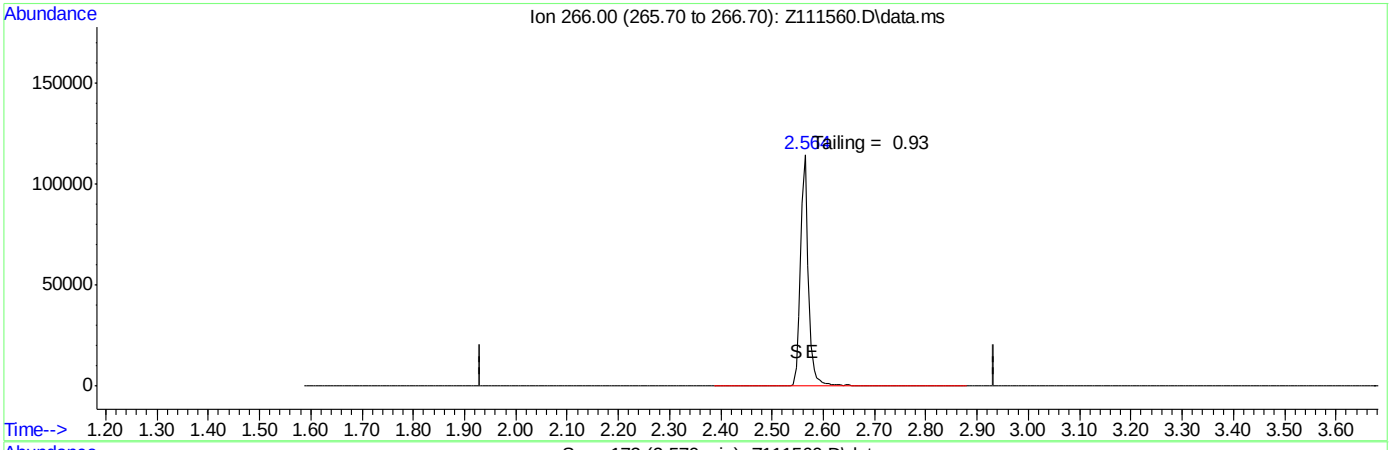
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
516.70	16						
528.90	17						
545.80	23						
546.70	19						

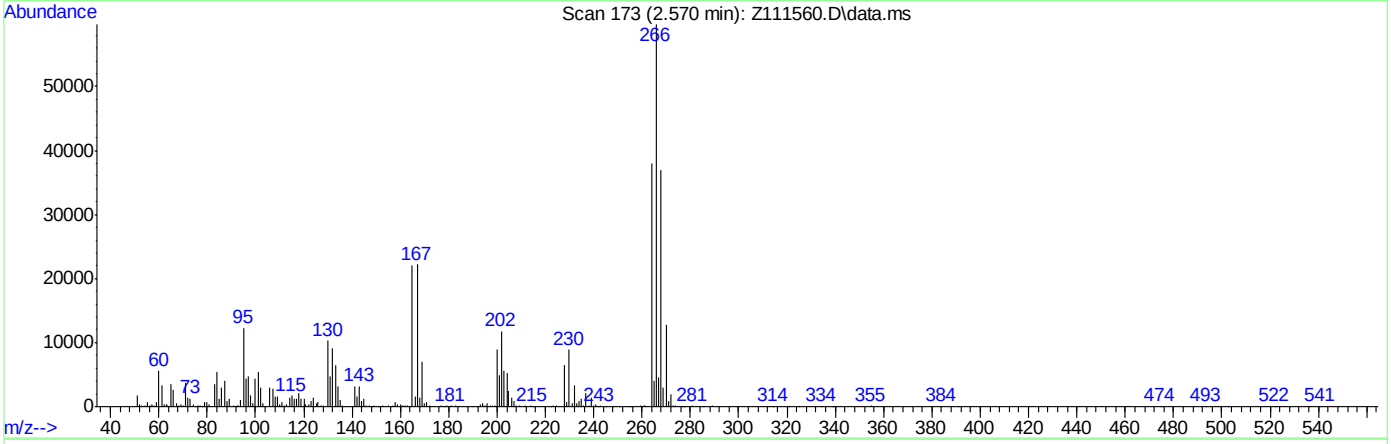
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111560.D
Acq On : 15 Jun 2016 4:41 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5574
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 16:47:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111560.D\data.ms

(1) Pentachlorophenol

2.433min (-2.433) 0.00

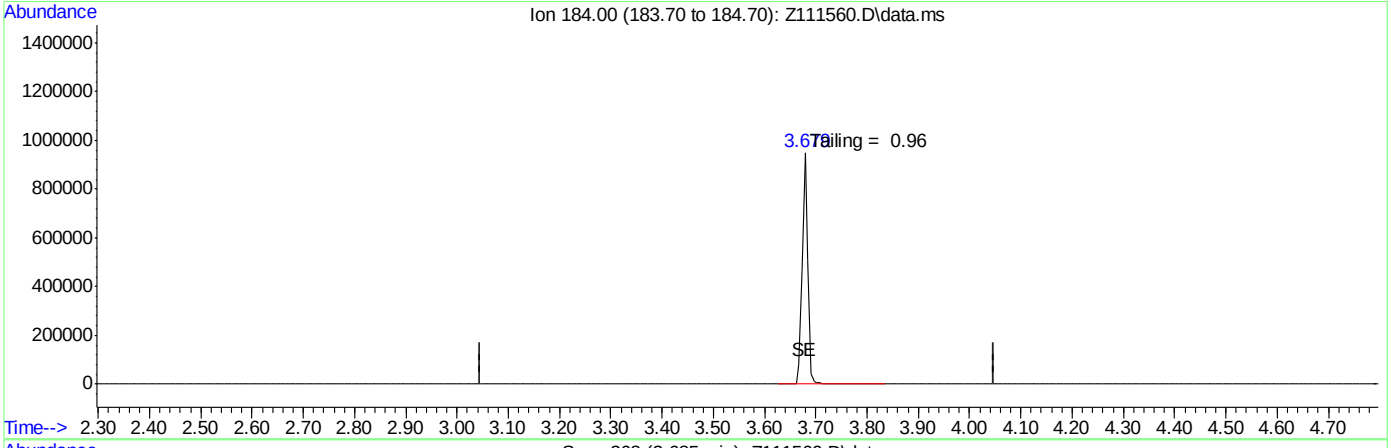
response 0

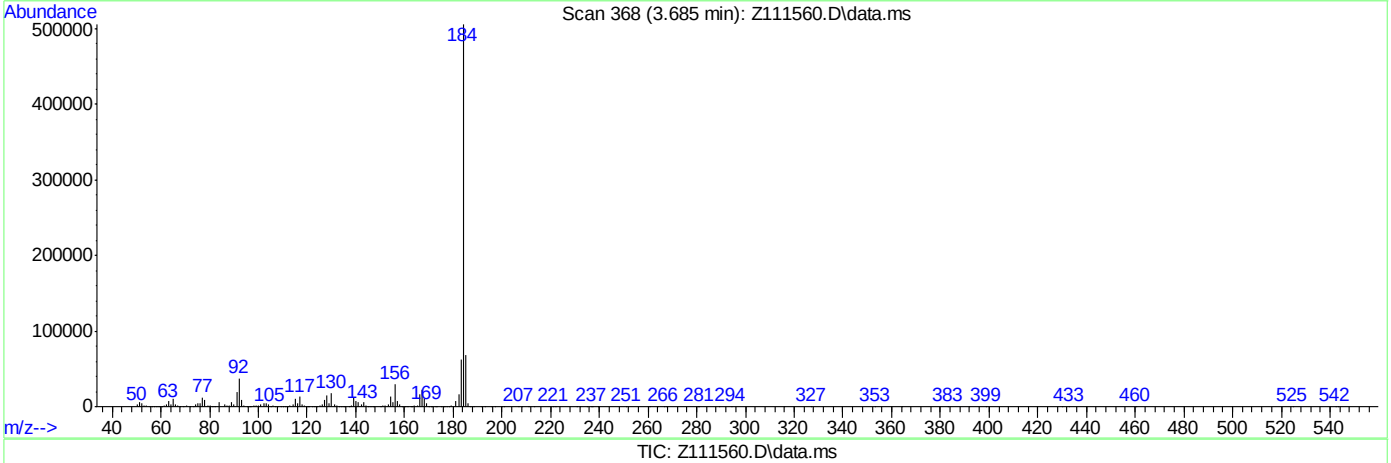
Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111560.D
Acq On : 15 Jun 2016 4:41 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5574
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 16:47:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111560.D\data.ms

(2) Benzidine

3.547min (-3.547) 0.00

response 0

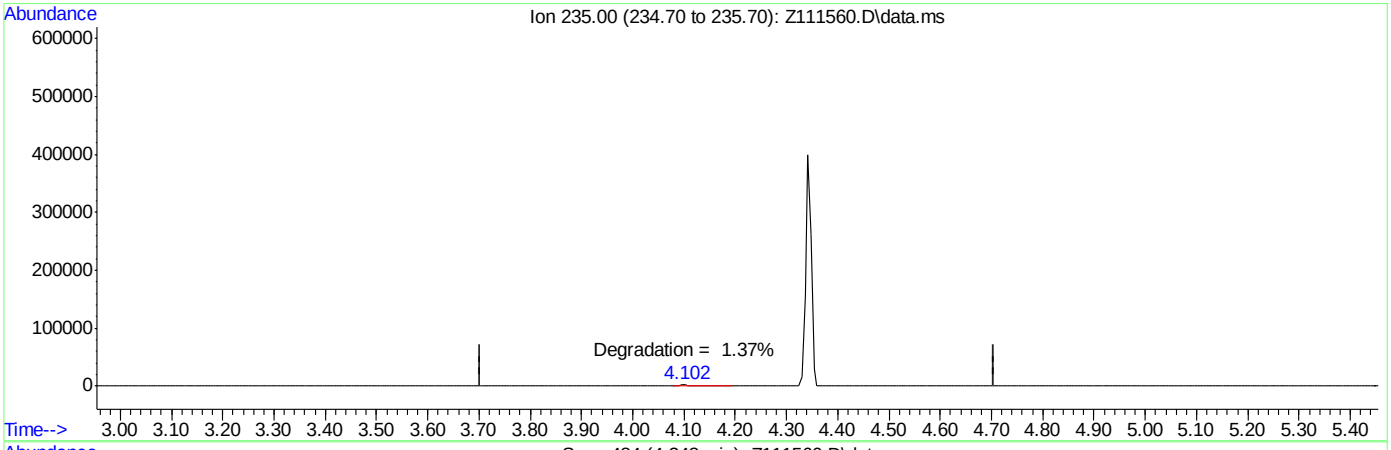
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

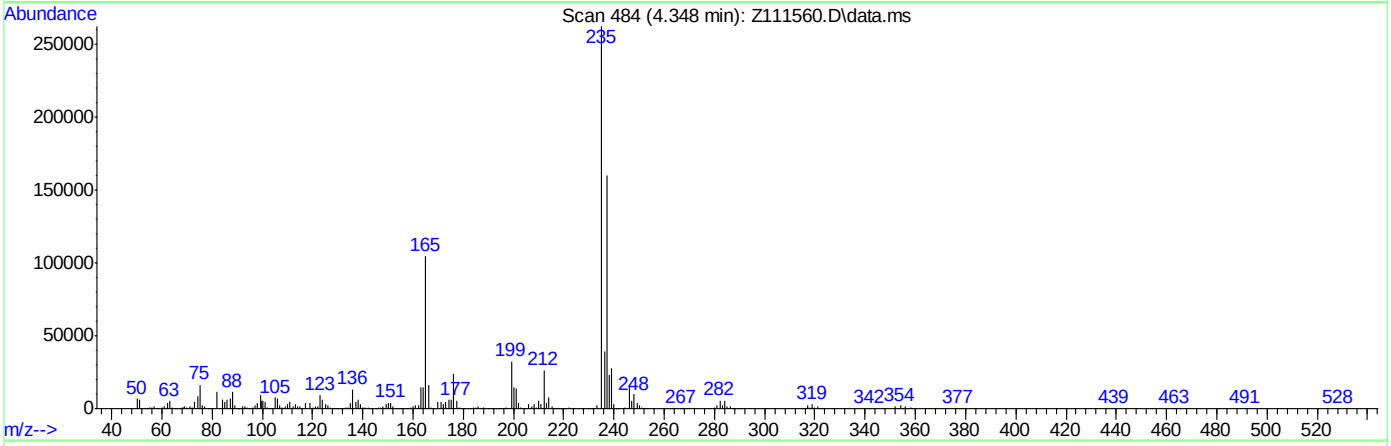
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111560.D
Acq On : 15 Jun 2016 4:41 pm
Operator : seanb1
Sample : dftpp
Misc : op94271,ez5574
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 15 16:47:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111560.D\data.ms

(3) PP-DDT

4.205min (-4.205) 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

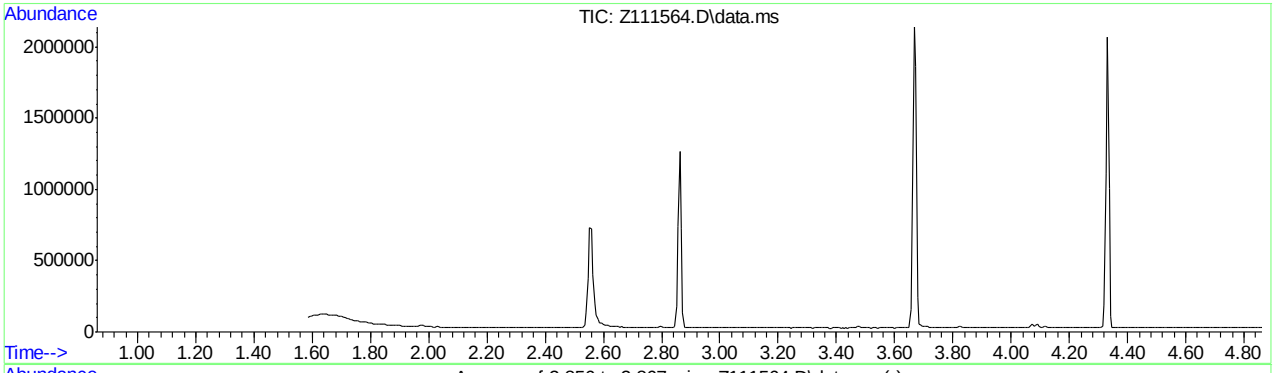
SGS ACCUTEST JC23443

DFTPP

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111564.D
Acq On : 16 Jun 2016 8:41 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5575
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015



AutoFind: Scans 223, 224, 225; Background Corrected with Scan 219

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.0	39674	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.6	54481	PASS
70	69	0.00	2	0.7	390	PASS
127	198	40	60	54.8	55762	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	101696	PASS
199	198	5	9	6.6	6677	PASS
275	198	10	30	24.0	24415	PASS
365	198	1	100	2.4	2399	PASS
441	443	0.01	100	86.2	8454	PASS
442	198	40	100	52.0	52888	PASS
443	442	17	23	18.5	9807	PASS

DFTPPZ.M Thu Jun 16 08:50:01 2016 RTE

Page: 1

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.15	10999	62.05	588	73.05	440	85.05	874
51.10	39674	63.10	1818	74.10	4884	86.00	1118
52.15	1974	64.05	343	75.05	7517	87.00	375
53.00	48	65.10	832	76.20	2106	88.00	315
55.20	245	66.00	40	77.10	52656	89.00	47
56.10	1421	66.15	85	78.10	3723	89.50	17
57.10	3128	67.05	10	79.10	3763	90.10	39
58.10	112	67.30	189	80.05	2735	91.10	889
59.15	54	69.10	54481	81.10	3777	92.00	316
60.00	168	70.10	390	82.00	649	92.15	547
61.10	675	71.10	80	83.05	871	93.10	5964

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	477	102.05	19	114.00	26	121.15	134
95.05	10	102.30	25	114.20	26	122.05	1039
95.30	62	103.00	713	115.05	114	123.05	1418
96.05	95	104.10	1307	116.00	139	124.05	822
97.20	57	105.10	1283	117.10	10483	125.10	636
98.05	4213	107.10	15409	118.10	756	127.10	55762
99.05	3428	108.10	2675	119.00	57	128.10	4544
99.80	53	110.10	29095	119.20	62	129.10	20838
100.10	236	111.10	4349	119.80	37	130.05	1591
101.10	1901	112.00	641	120.10	233	131.05	399
101.80	20	113.05	126	120.30	57	132.05	117

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
133.20	164	140.15	240	149.00	538	157.90	461
134.05	628	141.05	2625	150.05	145	158.30	97
135.10	1364	142.05	877	150.30	60	159.00	339
136.05	628	142.90	140	151.10	377	160.10	751
137.05	752	143.05	374	152.00	198	161.05	1070
137.40	99	144.00	155	153.05	788	161.80	91
138.00	224	144.40	28	154.05	699	162.10	241
138.60	58	145.05	181	155.10	1595	163.00	63
138.95	135	146.10	465	156.10	2071	163.30	28
139.50	44	147.05	1119	156.90	71	164.10	174
140.00	75	148.10	2693	157.20	397	165.05	841

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
166.10	845	175.05	1903	185.05	1785	195.05	181
167.10	5478	176.05	829	186.10	14678	196.05	3424
168.05	2256	177.05	1043	187.10	4096	198.00	101696
169.00	431	178.10	33	188.05	380	199.05	6677
169.80	75	179.00	3588	189.05	691	200.10	721
170.10	67	180.10	2445	189.75	120	200.60	53
170.90	130	181.10	1264	190.00	33	201.55	763
171.10	117	182.10	141	191.10	469	203.05	827
172.05	420	182.70	53	192.05	1243	204.05	3549
173.00	509	183.20	165	193.05	1190	205.05	6375
174.10	1120	184.05	246	194.05	363	206.10	26214

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.10	3493	218.10	960	228.05	914	237.20	134
208.05	816	218.80	60	229.00	1135	237.95	108
209.10	348	219.50	109	229.85	63	238.30	19
211.10	1104	221.10	6463	230.10	74	238.60	24

DFTPPZ.M Thu Jun 16 08:50:01 2016 RTE Page: 2

211.75	322	222.10	205	231.05	522	239.05	175
212.00	95	223.10	1775	232.05	105	240.05	176
213.05	106	224.10	13725	233.10	169	241.05	326
213.70	17	225.15	3475	234.05	390	242.05	704
215.10	285	226.00	106	235.05	434	243.15	964
216.10	510	226.15	413	236.10	329	244.10	11505
217.00	6046	227.05	5456	237.00	316	245.10	1513

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
246.10	1798	253.10	481	264.00	208	273.10	1746
247.10	516	255.10	54664	265.05	1279	274.10	4793
248.10	97	256.05	8081	265.95	225	275.10	24415
249.00	558	257.05	731	266.95	86	276.05	3130
249.90	113	258.10	2915	267.30	24	277.05	2032
250.20	41	258.80	65	269.10	63	278.05	384
250.60	32	259.10	356	270.10	54	279.00	59
250.85	131	260.10	32	271.05	123	279.50	30
251.20	92	261.00	56	271.50	44	279.90	37
251.95	53	262.90	22	272.10	98	280.30	19
252.20	65	263.15	35	272.40	102	281.80	18

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
282.25	85	289.40	20	296.05	5961	305.30	47
283.05	279	290.00	41	297.05	917	305.60	26
284.10	224	290.20	36	297.80	27	306.70	16
285.05	380	290.90	22	298.10	51	307.00	20
286.00	35	291.25	71	298.40	39	308.00	121
286.25	69	292.05	100	300.35	42	308.80	25
287.40	21	293.00	462	300.90	26	309.20	51
287.70	17	293.90	97	301.95	147	310.00	40
287.90	64	294.30	42	303.10	760	310.20	38
288.70	38	294.80	54	304.05	270	311.00	24
289.00	52	295.00	85	305.00	19	311.45	39

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
312.20	18	322.05	152	332.80	19	342.05	74
313.20	66	323.10	2203	333.15	161	346.05	427
314.10	390	324.00	203	334.10	1388	347.05	76
315.00	590	324.20	127	335.00	404	347.90	26
316.15	362	325.00	19	336.05	67	348.90	20
317.05	84	327.05	448	336.30	23	349.90	17
318.00	25	327.80	38	339.00	49	350.70	74
318.20	18	328.05	168	339.20	30	352.00	101
319.40	24	328.80	42	340.00	67	352.15	489
320.15	77	331.15	63	340.20	21	352.90	60
321.10	291	332.15	255	341.05	269	353.15	329

Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
354.05	619	363.85	103	374.05	38	390.85	122
355.10	138	365.00	2399	377.20	20	391.30	22
356.30	21	366.00	401	378.30	28	392.10	93
358.90	46	366.80	41	380.20	21	395.70	18
359.90	23	367.30	19	380.60	28	398.30	16
360.10	25	369.00	21	381.20	17	401.00	18
360.80	22	369.90	44	383.00	281	401.30	34
361.60	28	370.90	111	383.90	22	401.90	82
362.10	26	371.30	97	384.10	29	402.05	421
362.70	26	372.05	1008	387.20	18	403.05	496
363.00	31	373.00	282	390.10	114	403.90	32

Average of 2.856 to 2.867 min.: Z111564.D\data.ms

DFTPPZ.M Thu Jun 16 08:50:01 2016 RTE Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
404.15	122	419.00	30	428.00	50	433.50	66
404.90	29	421.00	385	428.40	29	434.20	27
405.40	18	422.10	423	428.70	20	434.50	53
406.80	20	423.10	2804	429.10	18	435.10	71
412.20	20	424.05	716	429.70	36	435.40	67
413.80	19	424.80	34	430.10	18	436.20	169
415.30	37	425.10	27	430.30	34	436.80	87
416.00	22	425.60	19	430.60	40	437.10	243
416.40	29	426.60	18	431.50	63	437.70	187
417.10	19	427.00	32	432.30	23	438.20	76
418.60	27	427.50	23	432.95	70	438.50	46

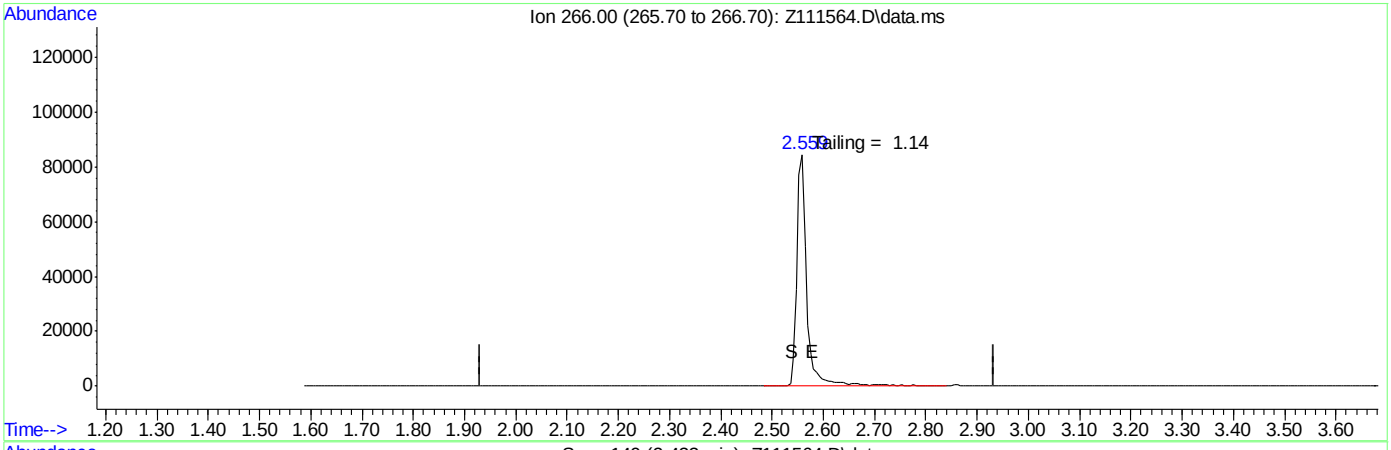
Average of 2.856 to 2.867 min.: Z111564.D\data.ms
dftpp
Modified:subtracted

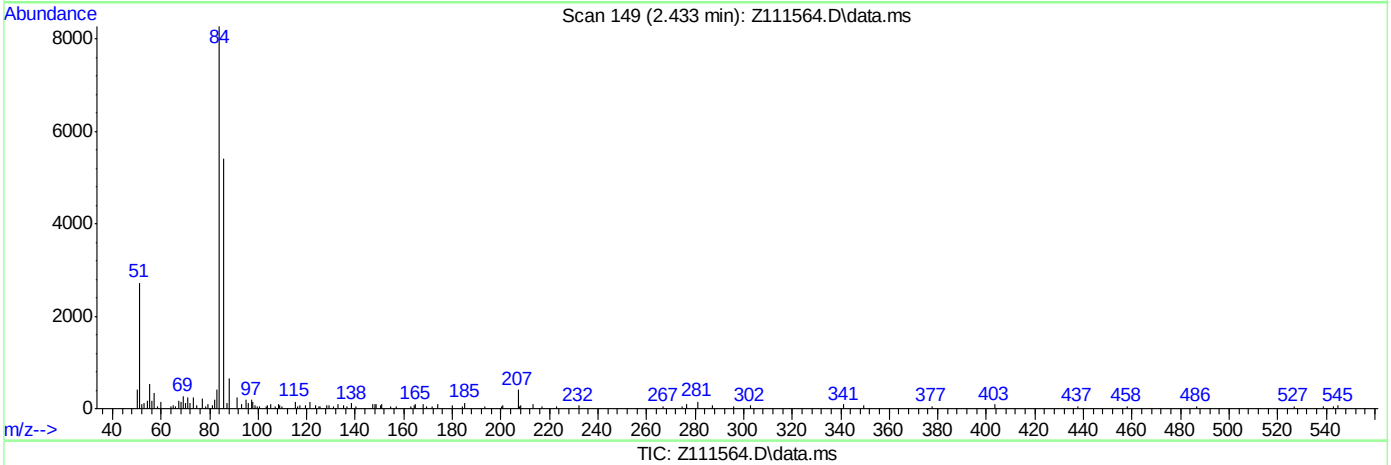
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
438.75	335	459.60	18	545.40	17		
439.10	154	469.90	19				
439.50	62	470.10	18				
439.90	377	484.50	19				
441.10	8454	494.10	20				
442.10	52888	503.40	23				
443.10	9807	503.80	18				
444.10	999	510.30	23				
444.80	20	523.00	22				
445.10	48	529.90	23				
448.40	18	535.30	18				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111564.D
Acq On : 16 Jun 2016 8:41 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5575
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:47:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111564.D\data.ms

(1) Pentachlorophenol

2.433min (-2.433) 0.00

response 0

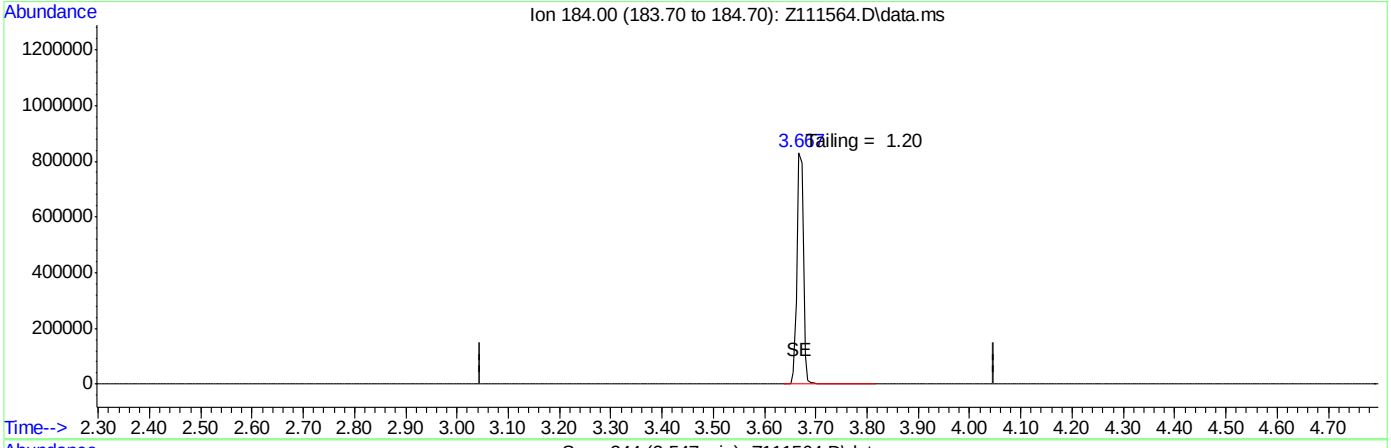
Ion	Exp%	Act%
266.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

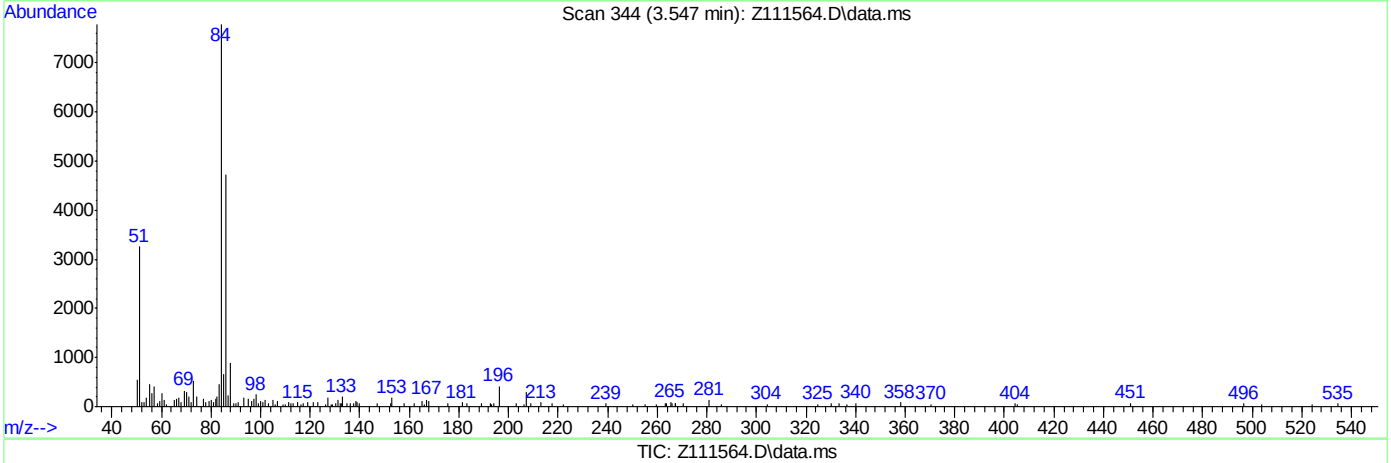
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111564.D
Acq On : 16 Jun 2016 8:41 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5575
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:47:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111564.D\data.ms

(2) Benzidine

3.547min (-3.547) 0.00

response 0

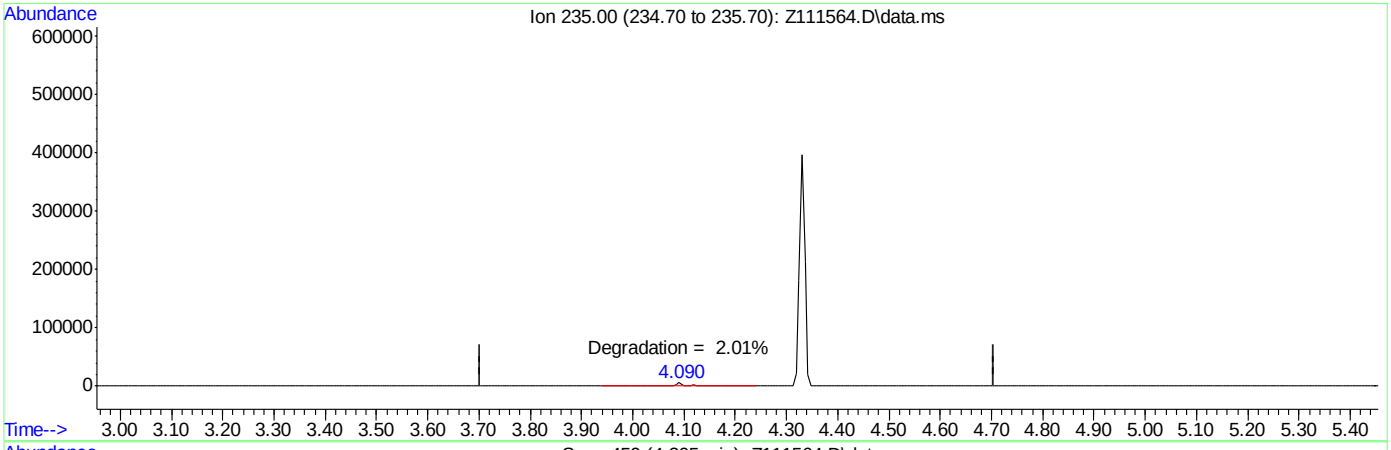
Ion	Exp%	Act%
184.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

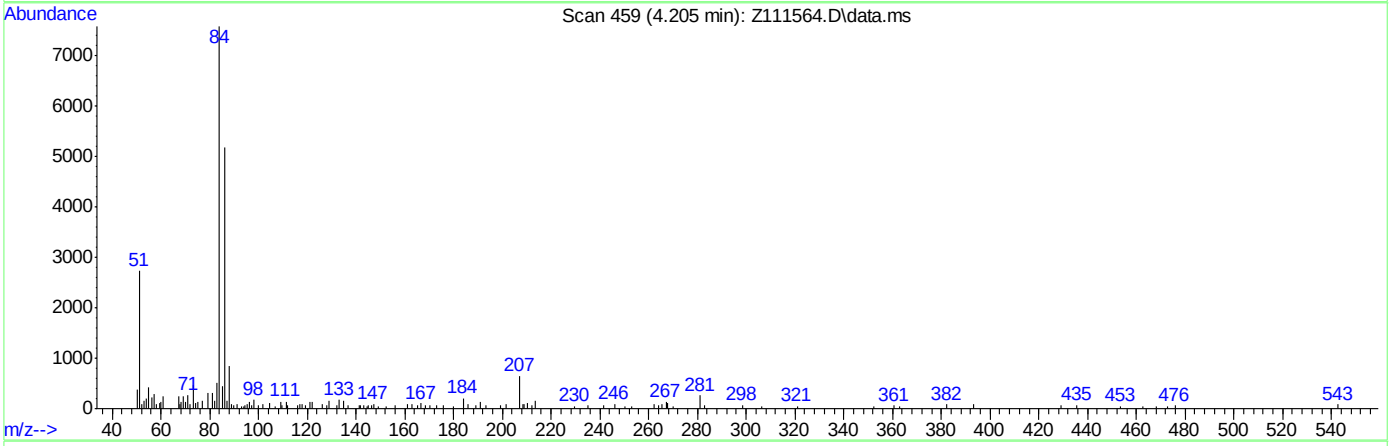
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111564.D
Acq On : 16 Jun 2016 8:41 am
Operator : ariellec
Sample : dftpp
Misc : op94271,ez5575
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 08:47:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: Z111564.D\data.ms

(3) PP-DDT

4.205min (-4.205) 0.00

response 0

Ion	Exp%	Act%
235.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

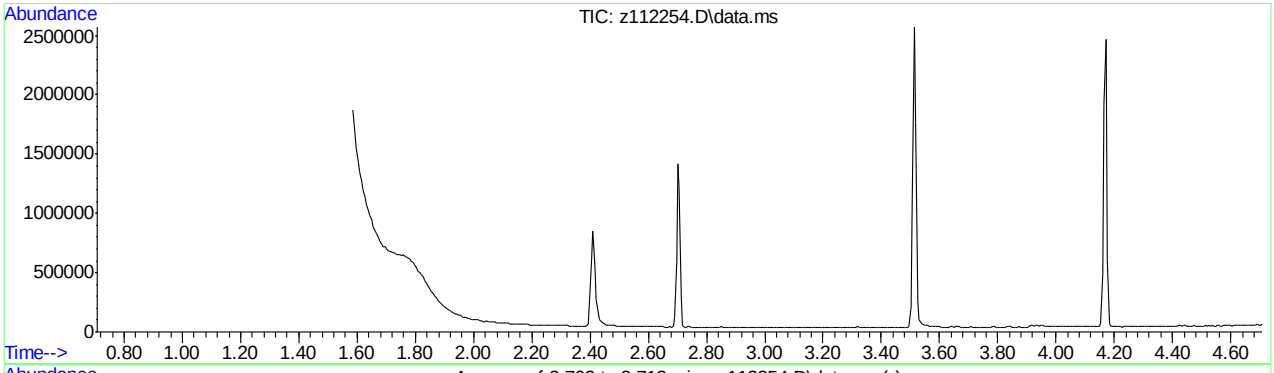
SGS ACCUTEST JC23443

DFTPP

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112254.D
Acq On : 10 Jul 2016 8:41 am
Operator : ARIELLEC
Sample : DFTPP
Misc : op95277,ez5607,31.5
ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Title : column rtx-5msi 30mx0.25mmx0.25um
Last Update : Thu Sep 10 14:02:56 2015



AutoFind: Scans 196, 197, 198; Background Corrected with Scan 189

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.7	39207	PASS
68	69	0.00	2	0.3	168	PASS
69	198	0.00	100	47.3	53486	PASS
70	69	0.00	2	0.8	447	PASS
127	198	40	60	51.0	57681	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	113074	PASS
199	198	5	9	6.3	7126	PASS
275	198	10	30	22.1	24958	PASS
365	198	1	100	2.4	2672	PASS
441	443	0.01	100	74.2	7219	PASS
442	198	40	100	43.8	49573	PASS
443	442	17	23	19.6	9726	PASS

DFTPPZ.M Sun Jul 10 09:01:14 2016 RTE

Page: 1

Average of 2.702 to 2.713 min.: z112254.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	10122	62.00	620	74.05	5119	85.10	710
51.05	39207	63.10	1588	75.05	7880	86.00	1562
52.10	1998	64.10	312	76.15	2334	87.05	422
53.10	30	65.10	922	77.05	52806	88.00	215
54.15	41	66.10	55	78.05	3683	91.10	825
55.10	413	67.10	84	79.10	3701	92.05	811
56.05	1135	68.10	168	80.00	2667	93.10	6380
57.10	2794	69.10	53486	81.10	3758	94.10	367
58.20	77	70.00	447	82.05	907	95.05	121
59.10	48	72.20	32	83.10	889	96.15	315
61.10	561	73.05	391	84.00	555	98.05	5307

Average of 2.702 to 2.713 min.: z112254.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.10	3474	112.05	537	121.10	83	132.30	115
100.05	231	112.75	35	122.00	890	134.00	623
101.10	2068	113.05	232	123.05	1700	135.05	1816
101.95	2	113.95	31	124.05	626	136.05	599
103.05	576	114.40	34	125.05	771	137.10	840
104.00	1454	115.05	137	127.05	57681	137.90	251
105.10	1152	116.10	781	128.05	4434	138.10	174
107.10	16723	117.10	13334	129.10	23939	139.10	197
108.10	2498	118.05	972	130.05	2085	140.00	42
110.10	29889	119.05	167	131.05	406	140.30	158
111.10	4462	120.05	91	131.85	11	141.05	3000

Average of 2.702 to 2.713 min.: z112254.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.05	946	152.15	263	162.00	277	170.95	145
143.10	658	152.70	61	162.30	32	172.05	658
144.05	122	153.05	597	162.95	107	173.00	694
144.30	69	154.05	602	164.20	129	174.05	1408
145.15	161	155.00	1751	165.00	808	175.10	2252
146.05	593	156.05	2698	166.10	875	176.05	827
147.00	1566	157.05	436	166.30	158	177.05	1050
148.05	3503	157.95	452	167.05	6040	178.05	392
149.05	721	159.05	385	168.05	2323	179.00	4317
150.05	263	160.05	870	169.05	580	180.05	3007
151.20	300	161.05	1206	170.05	251	181.05	1514

Average of 2.702 to 2.713 min.: z112254.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
182.25	365	192.10	1389	205.10	6889	214.30	26
183.10	339	193.05	1469	206.10	28394	215.00	395
184.05	419	194.05	389	207.10	3365	216.05	774
185.05	1917	196.10	3320	208.05	884	217.00	7516
186.10	15992	198.00	113074	209.00	397	218.00	985
187.10	4531	199.00	7126	210.20	398	219.10	204
188.10	616	200.05	780	211.05	1166	220.00	117
189.10	1147	201.35	410	212.00	366	221.10	6383
189.90	25	201.55	317	212.60	51	222.00	1340
190.10	163	203.05	828	212.90	42	223.10	1989
191.00	343	204.10	3924	213.85	42	224.05	15778

Average of 2.702 to 2.713 min.: z112254.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
225.05	4050	236.00	383	247.00	628	252.00	192
226.30	87	237.10	640	247.30	27	253.05	277
227.05	6836	238.20	54	247.80	55	255.10	60357
228.05	987	239.20	414	248.00	111	256.10	8963

DFTPPZ.M Sun Jul 10 09:01:14 2016 RTE Page: 2

229.10	1472	240.00	50	248.20	38	257.00	653
230.10	155	241.05	367	249.00	232	258.05	3439
231.05	545	242.00	903	249.20	171	259.05	660
232.15	144	243.05	977	250.00	59	260.00	141
233.05	269	244.10	11744	250.30	57	261.05	122
234.10	363	245.10	1626	251.10	55	263.20	47
235.05	677	246.00	2710	251.60	39	263.90	140

Average of 2.702 to 2.713 min.: z112254.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
265.05	1485	274.00	4795	285.10	436	294.05	184
265.90	242	275.10	24958	286.10	83	294.50	79
267.05	157	276.10	3516	288.00	24	295.15	136
267.80	169	277.00	2388	288.70	17	296.00	7313
268.70	60	278.05	485	289.10	60	297.10	1083
269.00	23	279.00	88	289.30	25	297.90	116
270.05	75	279.70	16	290.05	72	298.10	59
270.85	14	281.05	158	290.30	23	298.90	29
271.20	83	282.10	31	291.10	70	300.10	40
272.10	260	283.05	323	292.15	106	300.90	20
273.05	1841	283.90	214	293.00	569	301.15	94

Average of 2.702 to 2.713 min.: z112254.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
301.40	26	313.05	112	322.10	1	330.80	42
301.80	25	314.00	462	323.10	2318	331.20	28
302.20	94	315.05	955	324.00	272	331.95	167
303.10	792	316.00	148	325.05	98	333.00	198
303.90	80	316.15	207	325.80	29	334.10	1251
304.10	161	317.15	151	326.90	322	335.00	363
305.10	53	319.05	108	327.10	152	335.70	38
308.00	147	319.50	26	328.10	182	336.30	18
309.15	52	320.10	32	329.20	68	337.20	18
311.10	24	321.05	226	329.70	22	338.10	21
312.40	33	321.30	57	330.20	19	338.90	55

Average of 2.702 to 2.713 min.: z112254.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
339.90	25	351.00	51	363.10	91	375.40	30
340.15	56	352.10	582	363.45	58	376.90	22
341.00	308	353.10	467	363.80	42	377.10	33
341.90	30	354.05	526	365.00	2672	378.00	19
342.20	87	355.05	179	366.05	432	378.70	17
346.00	526	356.15	44	367.80	30	381.30	21
347.10	38	357.05	47	370.00	25	382.30	48
348.00	16	357.30	19	371.10	193	383.05	452
348.90	17	358.90	57	372.05	1070	383.95	60
349.10	34	361.30	53	373.05	246	386.40	26
350.20	30	362.00	28	374.05	37	387.00	37

Average of 2.702 to 2.713 min.: z112254.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
387.20	25	402.00	358	413.30	20	430.70	30
389.00	36	403.10	464	419.90	18	430.90	24
390.15	93	404.00	116	421.10	508	431.80	17
391.00	96	404.20	41	422.05	461	432.90	25
391.20	33	404.70	17	423.10	2900	433.70	87
392.10	96	405.20	26	424.00	545	434.25	53
392.40	22	407.20	28	425.05	46	435.00	62
393.00	19	410.00	17	427.90	29	435.50	30
395.80	33	410.20	18	428.40	23	435.70	36
399.20	24	411.30	19	428.80	18	436.50	44
401.00	26	413.10	20	429.50	18	436.80	34

Average of 2.702 to 2.713 min.: z112254.D\data.ms

DFTPPZ.M Sun Jul 10 09:01:14 2016 RTE Page: 3

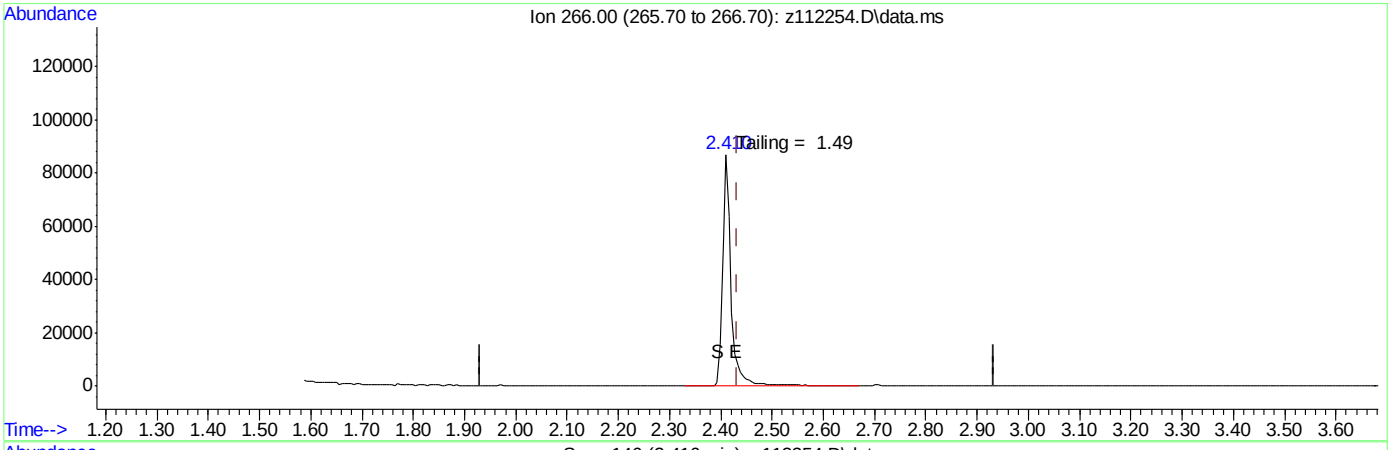
DFTPP
Modified:subtracted

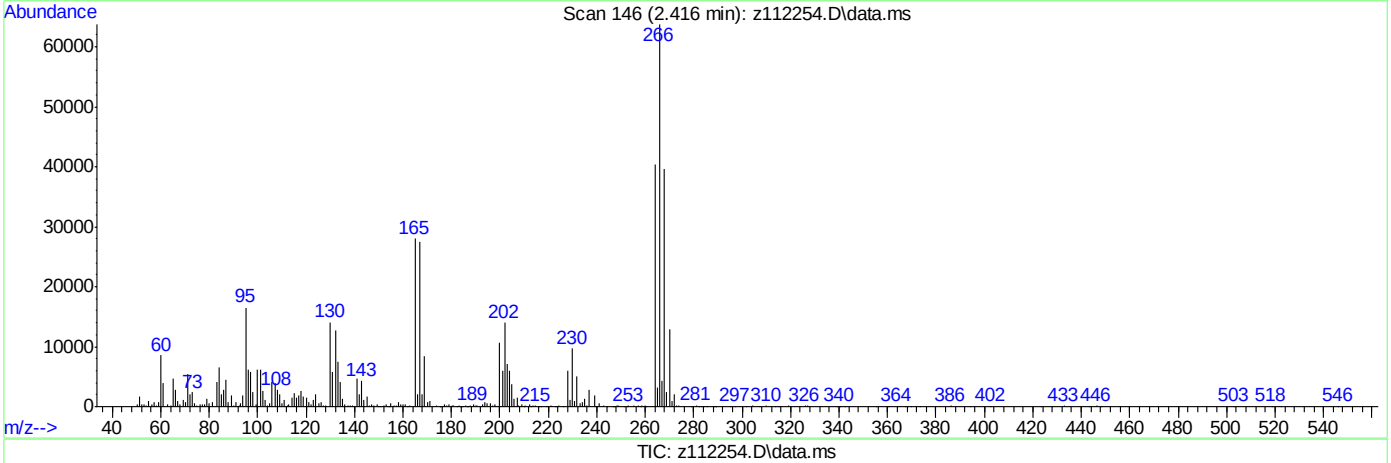
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
437.40	87	446.20	37				
437.80	34	454.70	16				
438.05	89	476.50	21				
438.45	108	481.10	17				
439.20	114	486.90	16				
439.55	95	519.20	20				
441.10	7219	536.90	23				
442.10	49573	538.70	19				
443.10	9726						
444.10	819						
445.30	33						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112254.D
Acq On : 10 Jul 2016 8:41 am
Operator : ARIELLEC
Sample : DFTPP
Misc : op95277,ez5607,31.5
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 10 08:47:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: z112254.D\data.ms

(1) Pentachlorophenol

2.413min (-0.020) 50.33

response 974333

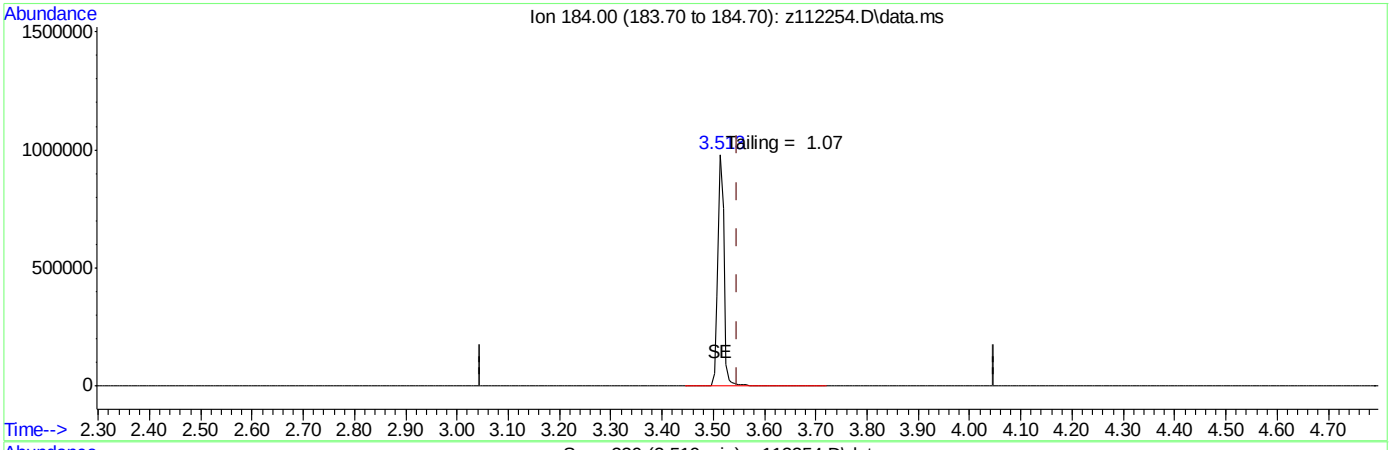
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

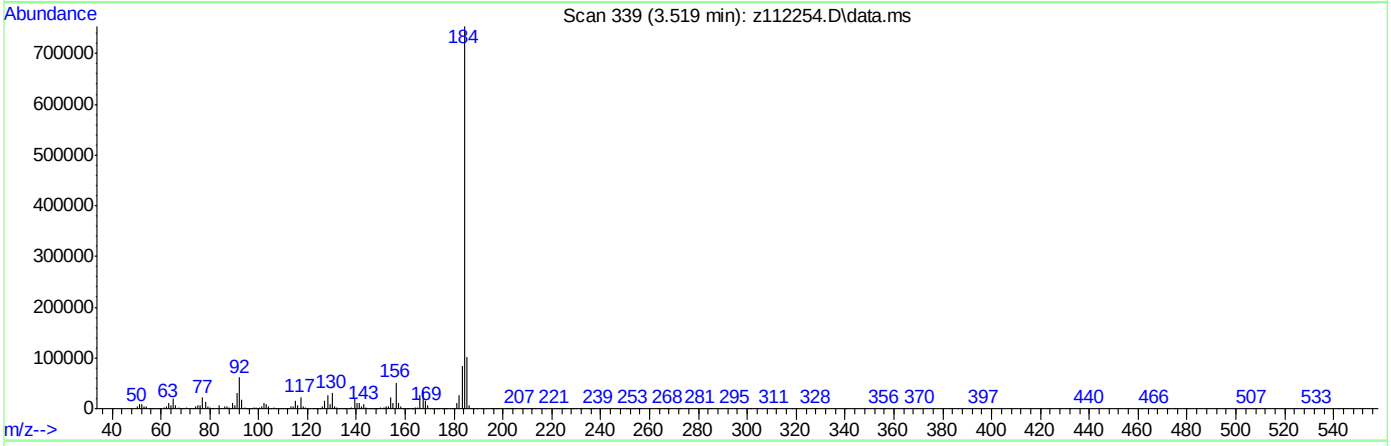
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112254.D
Acq On : 10 Jul 2016 8:41 am
Operator : ARIELLEC
Sample : DFTPP
Misc : op95277,ez5607,31.5
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 10 08:47:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: z112254.D\data.ms

(2) Benzidine

3.517min (-0.030) 65.81

response 8014486

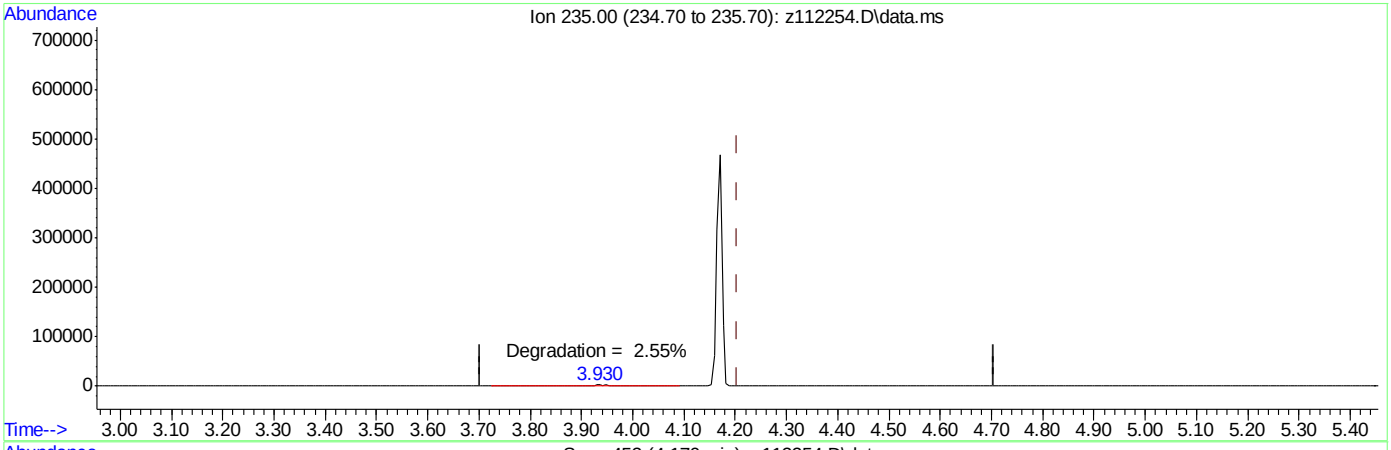
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

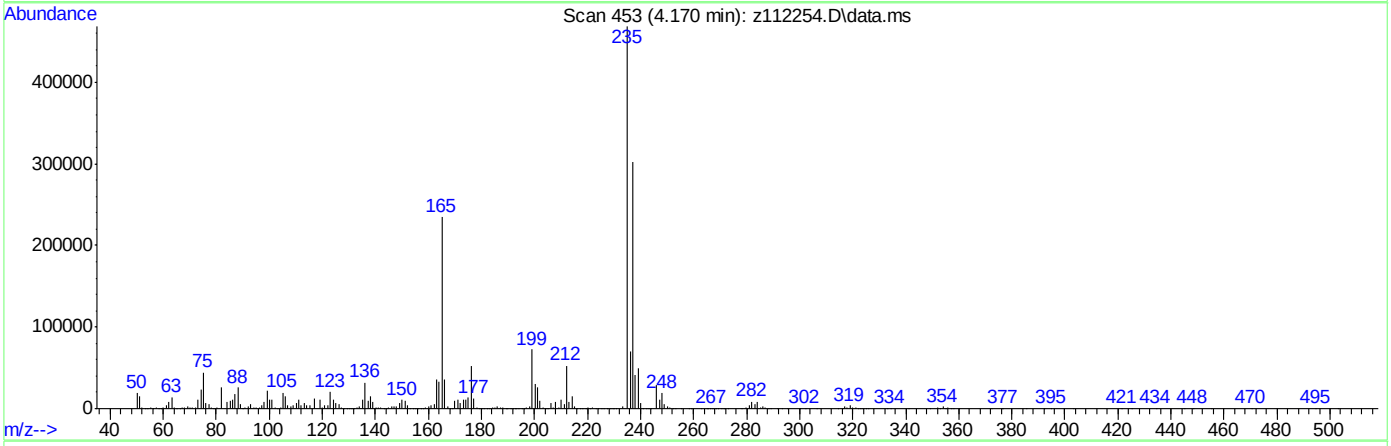
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112254.D
Acq On : 10 Jul 2016 8:41 am
Operator : ARIELLEC
Sample : DFTPP
Misc : op95277,ez5607,31.5
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 10 08:47:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPZ.M
Quant Title : column rtx-5msi 30mx0.25mmx0.25um
QLast Update : Thu Sep 10 14:02:56 2015
Response via : Initial Calibration





TIC: z112254.D\data.ms

(3) PP-DDT

4.171min (-0.033) 61.66

response 3348704

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62371.D
Acq On : 20 Jun 2016 6:49 pm
Operator : ashleyd
Sample : ic2942-0.2
Misc : op94419a,e3m2942
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:38:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:37:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	746360	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	1132165	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1784341	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	1292564	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	519849	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
4) Phenol-d5	6.345	99	829923	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
7) Nitrobenzene-d5	7.952	82	635385	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
15) 2-Fluorobiphenyl	11.537	172	1446223	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
20) 2,4,6-Tribromophenol	14.422	330	119847	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
28) Terphenyl-d14	18.867	244	1119414	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	9938	0.20	ppm	# 72
5) Phenol	6.370	94	225453	1.00	ppm	# 76
6) bis(2-Chloroethyl)ether	6.515	93	34022	0.20	ppm	# 65
8) Nitrobenzene	7.989	77	36647	0.20	ppm	# 60
9) Naphthalene	9.383	128	97044	0.20	ppm	93
10) Hexachlorobutadiene	9.684	225	15095	0.20	ppm	78
11) 2-Methylnaphthalene	10.743	141	52067	0.20	ppm	75
12) 1-Methylnaphthalene	10.948	141	56526	0.20	ppm	70
13) Hexachlorocyclopentadiene	11.112	237	17898	0.40	ppm	81
16) Acenaphthylene	12.527	152	88333	0.20	ppm	98
17) Acenaphthene	12.898	153	58820	0.20	ppm	95
18) 4,6-dinitro-2-methylph...	14.083	198	8809	1.00	ppm	68
19) Fluorene	13.932	166	66597	0.20	ppm	89
22) Hexachlorobenzene	15.065	284	18430	0.20	ppm	96
23) Pentachlorophenol	15.467	266	25357	1.00	ppm	98
24) Phenanthrene	15.853	178	92098	0.20	ppm	100
25) Anthracene	15.946	178	80458	0.20	ppm	100
26) Fluoranthene	18.110	202	104719	0.20	ppm	100
27) Pyrene	18.496	202	99859	0.20	ppm	99
29) Benzo[a]anthracene	20.582	228	79934	0.20	ppm	99
30) Chrysene	20.644	228	85863	0.20	ppm	99
32) Benzo[b]fluoranthene	22.245	252	91730	0.20	ppm	97
33) Benzo[k]fluoranthene	22.283	252	86718	0.20	ppm	97
34) Benzo[a]pyrene	22.697	252	86961	0.20	ppm	99
35) Indeno[1,2,3-cd]pyrene	24.258	276	75545	0.20	ppm	96
36) Dibenz[a,h]anthracene	24.295	278	61064	0.20	ppm	70
37) Benzo[g,h,i]perylene	24.672	276	69114	0.20	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62371.D
Acq On : 20 Jun 2016 6:49 pm
Operator : ashleyd
Sample : ic2942-0.2
Misc : op94419a,e3m2942
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:38:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:37:54 2016
Response via : Initial Calibration

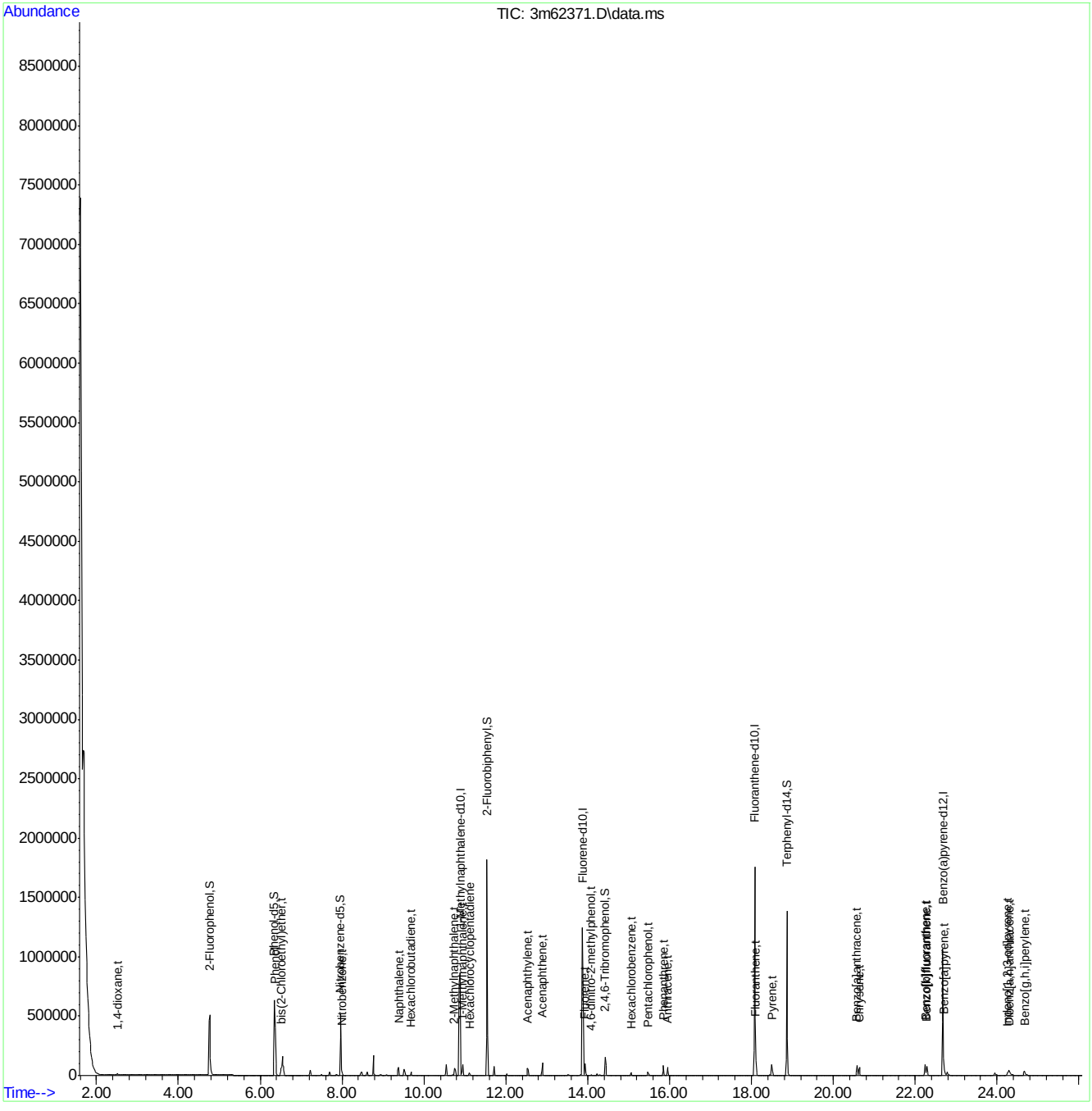
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62371.D
Acq On : 20 Jun 2016 6:49 pm
Operator : ashleyd
Sample : ic2942-0.2
Misc : op94419a,e3m2942
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:38:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:37:54 2016
Response via : Initial Calibration



M3M2942SIM.M Mon Jun 20 21:38:23 2016 RPT1 Page: 3

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62372.D
Acq On : 20 Jun 2016 7:23 pm
Operator : ashleyd
Sample : ic2942-0.1
Misc : op94419a,e3m2942
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:38:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:26 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	687709	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	1021527	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1617402	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	1150136	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	215637	1.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.60%	
4) Phenol-d5	6.345	99	342725	1.79	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.58%	
7) Nitrobenzene-d5	7.971	82	253595	1.73	ppm	0.02
Spiked Amount 50.000			Recovery	=	3.46%	
15) 2-Fluorobiphenyl	11.537	172	599071	1.84	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.68%	
20) 2,4,6-Tribromophenol	14.422	330	39741	1.47	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.94%	
28) Terphenyl-d14	18.867	244	435469	1.72	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.44%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	4052	0.09	ppm #	73
5) Phenol	6.369	94	93421	0.45	ppm #	76
6) bis(2-Chloroethyl)ether	6.515	93	14129	0.09	ppm #	65
8) Nitrobenzene	7.989	77	14905	0.09	ppm #	58
9) Naphthalene	9.383	128	39406	0.09	ppm	93
10) Hexachlorobutadiene	9.684	225	6208	0.09	ppm	77
11) 2-Methylnaphthalene	10.743	141	19304	0.08	ppm	74
12) 1-Methylnaphthalene	10.948	141	23378	0.09	ppm #	69
13) Hexachlorocyclopentadiene	11.112	237	6480	0.16	ppm	80
16) Acenaphthylene	12.527	152	33748	0.08	ppm	97
17) Acenaphthene	12.898	153	22436	0.08	ppm	94
18) 4,6-dinitro-2-methylph...	14.083	198	2442	0.31	ppm #	1
19) Fluorene	13.932	166	26055	0.09	ppm	88
22) Hexachlorobenzene	15.065	284	7350	0.09	ppm	98
23) Pentachlorophenol	15.467	266	6279	0.27	ppm	95
24) Phenanthrene	15.853	178	35554	0.09	ppm	99
25) Anthracene	15.946	178	29452	0.08	ppm	98
26) Fluoranthene	18.110	202	46301	0.10	ppm	99
27) Pyrene	18.496	202	39190	0.09	ppm	99
29) Benzo[a]anthracene	20.582	228	28616	0.08	ppm	100
30) Chrysene	20.644	228	38226	0.10	ppm	100
32) Benzo[b]fluoranthene	22.245	252	30818	0.08	ppm	96
33) Benzo[k]fluoranthene	22.283	252	35762	0.09	ppm	97
34) Benzo[a]pyrene	22.697	252	36780	0.10	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.258	276	24907	0.07	ppm	95
36) Dibenz[a,h]anthracene	24.295	278	19720	0.07	ppm	66
37) Benzo[g,h,i]perylene	24.672	276	24545	0.08	ppm	98

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62372.D
Acq On : 20 Jun 2016 7:23 pm
Operator : ashleyd
Sample : ic2942-0.1
Misc : op94419a,e3m2942
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:38:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:26 2016
Response via : Initial Calibration

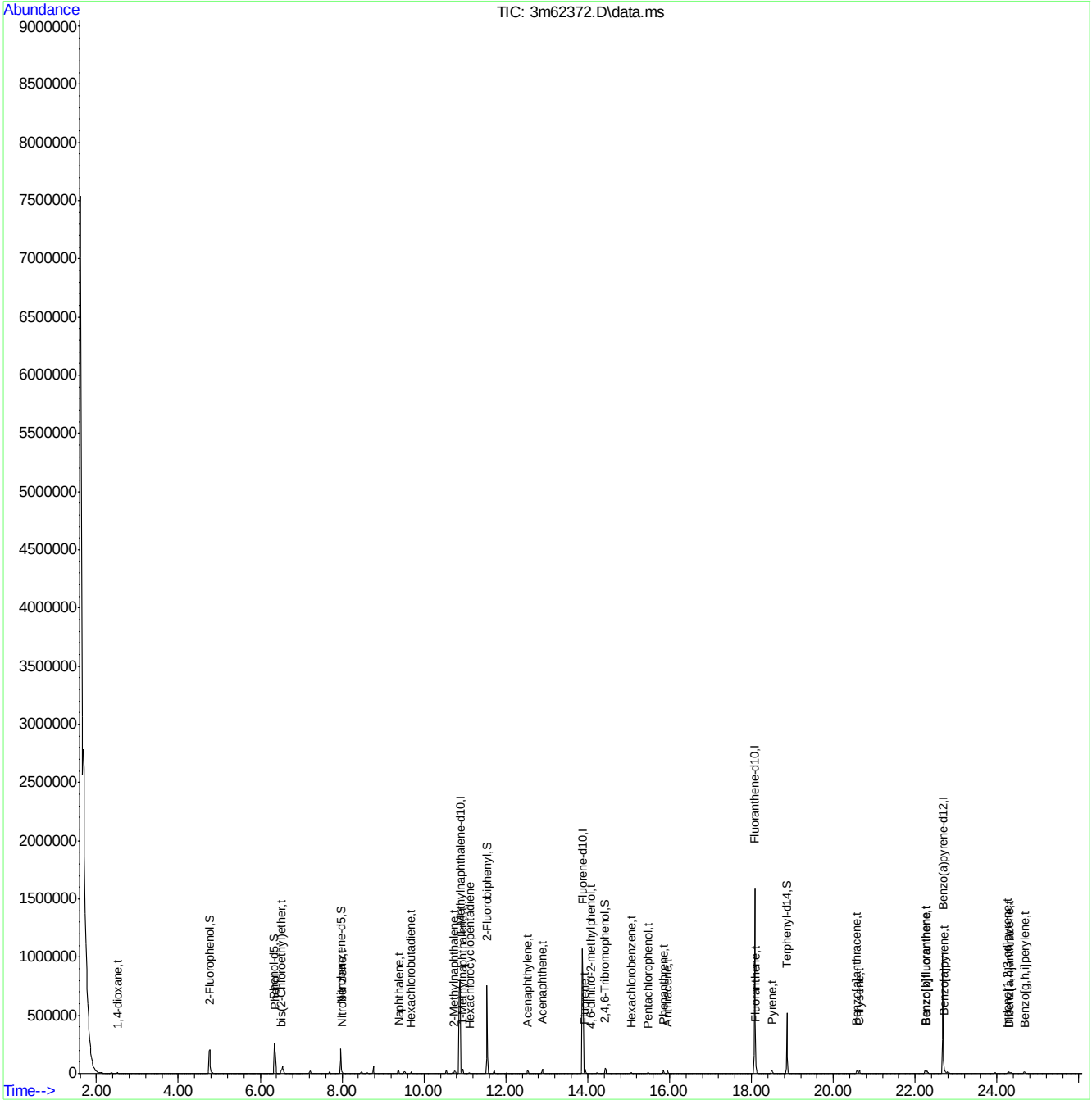
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62372.D
Acq On : 20 Jun 2016 7:23 pm
Operator : ashleyd
Sample : ic2942-0.1
Misc : op94419a,e3m2942
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:38:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:26 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62373.D
Acq On : 20 Jun 2016 7:56 pm
Operator : ashleyd
Sample : icc2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 21:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	560953	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	738238	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1136326	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	795917	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	1770750	19.08	ppm	0.00
Spiked Amount 50.000			Recovery = 38.16%			
4) Phenol-d5	6.357	99	2788469	18.86	ppm	0.01
Spiked Amount 50.000			Recovery = 37.72%			
7) Nitrobenzene-d5	7.971	82	2324446	20.86	ppm	0.00
Spiked Amount 50.000			Recovery = 41.72%			
15) 2-Fluorobiphenyl	11.537	172	4893460	21.64	ppm	0.00
Spiked Amount 50.000			Recovery = 43.28%			
20) 2,4,6-Tribromophenol	14.422	330	484189	28.57	ppm	0.00
Spiked Amount 50.000			Recovery = 57.14%			
28) Terphenyl-d14	18.867	244	3770409	22.77	ppm	0.00
Spiked Amount 50.000			Recovery = 45.54%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	34156	0.97	ppm #	72
5) Phenol	6.370	94	779251	4.84	ppm #	80
6) bis(2-Chloroethyl)ether	6.515	93	116885	0.96	ppm #	66
8) Nitrobenzene	7.989	77	134103	1.03	ppm #	59
9) Naphthalene	9.383	128	337949	0.99	ppm	94
10) Hexachlorobutadiene	9.684	225	51291	0.96	ppm	77
11) 2-Methylnaphthalene	10.743	141	169641	0.96	ppm	72
12) 1-Methylnaphthalene	10.948	141	203303	1.01	ppm	72
13) Hexachlorocyclopentadiene	11.112	237	70680	2.35	ppm	78
16) Acenaphthylene	12.542	152	318177	1.20	ppm	90
17) Acenaphthene	12.898	153	208912	1.18	ppm	92
18) 4,6-dinitro-2-methylph...	14.083	198	49338	10.64	ppm	74
19) Fluorene	13.932	166	228671	1.13	ppm	87
22) Hexachlorobenzene	15.065	284	65163	1.18	ppm	96
23) Pentachlorophenol	15.467	266	114448	9.17	ppm	99
24) Phenanthrene	15.853	178	333014	1.23	ppm	99
25) Anthracene	15.946	178	299136	1.29	ppm	98
26) Fluoranthene	18.110	202	359096	1.09	ppm	100
27) Pyrene	18.496	202	346998	1.17	ppm	98
29) Benzo[a]anthracene	20.582	228	261540	1.15	ppm	99
30) Chrysene	20.644	228	290022	1.07	ppm	100
32) Benzo[b]fluoranthene	22.245	252	290938	1.17	ppm	95
33) Benzo[k]fluoranthene	22.283	252	296199	1.15	ppm	95
34) Benzo[a]pyrene	22.697	252	274207	1.05	ppm	97
35) Indeno[1,2,3-cd]pyrene	24.258	276	247701	1.22	ppm	99
36) Dibenz[a,h]anthracene	24.295	278	197993	1.22	ppm	91
37) Benzo[g,h,i]perylene	24.672	276	223523	1.17	ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62373.D
Acq On : 20 Jun 2016 7:56 pm
Operator : ashleyd
Sample : icc2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 21:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:51 2016
Response via : Initial Calibration

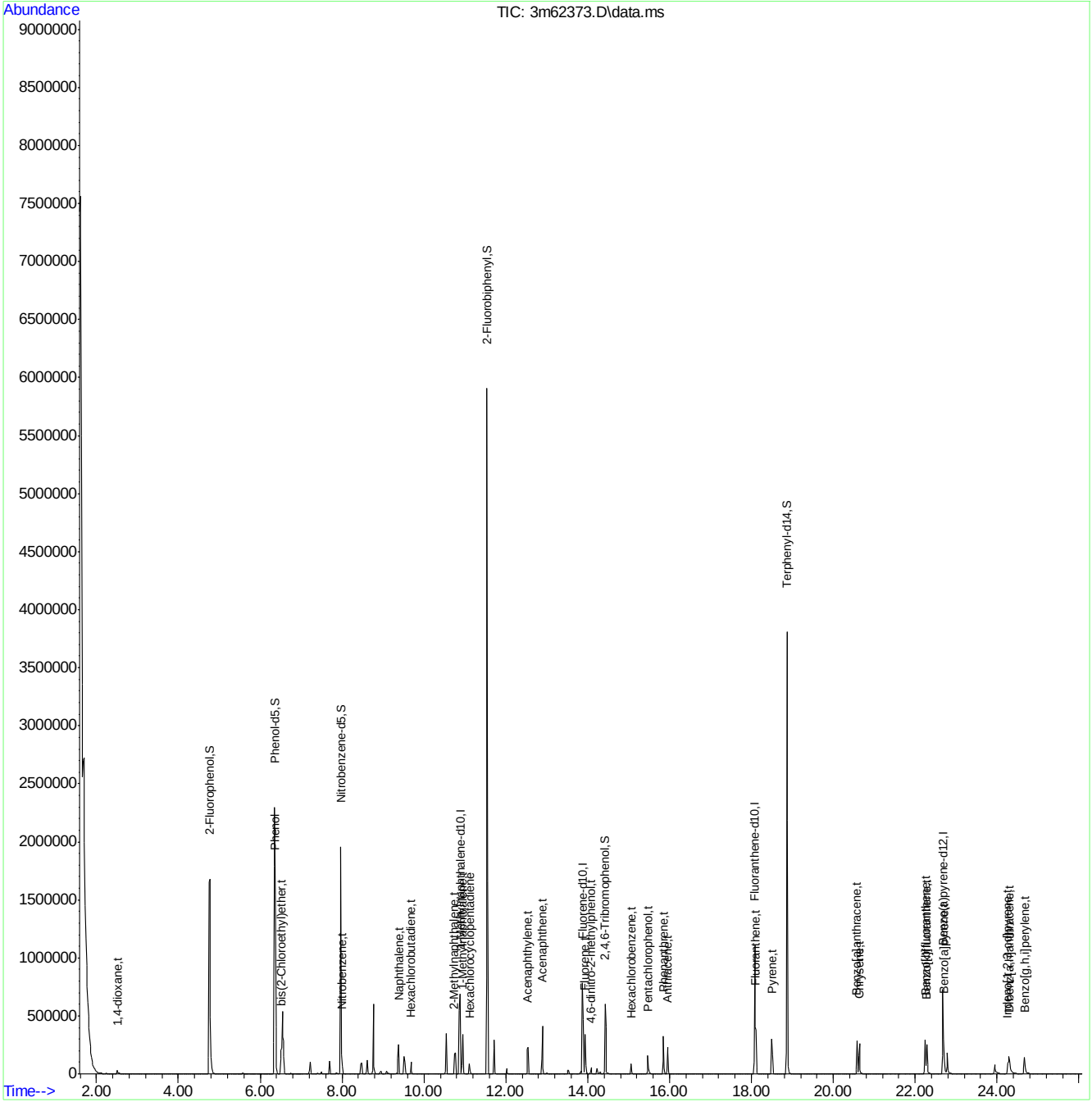
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62373.D
Acq On : 20 Jun 2016 7:56 pm
Operator : ashleyd
Sample : icc2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 21:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62374.D
Acq On : 20 Jun 2016 8:30 pm
Operator : ashleyd
Sample : ic2942-0.5
Misc : op94419a,e3m2942
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 21:39:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	524241	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	698845	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1076504	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	714394	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	866880	10.15	ppm	0.00
Spiked Amount 50.000			Recovery = 20.30%			
4) Phenol-d5	6.345	99	1391997	10.27	ppm	-0.01
Spiked Amount 50.000			Recovery = 20.54%			
7) Nitrobenzene-d5	7.952	82	1132793	10.73	ppm	-0.02
Spiked Amount 50.000			Recovery = 21.46%			
15) 2-Fluorobiphenyl	11.537	172	2460723	11.19	ppm	0.00
Spiked Amount 50.000			Recovery = 22.38%			
20) 2,4,6-Tribromophenol	14.422	330	218010	11.89	ppm	0.00
Spiked Amount 50.000			Recovery = 23.78%			
28) Terphenyl-d14	18.867	244	1853991	11.30	ppm	0.00
Spiked Amount 50.000			Recovery = 22.60%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	16484	0.51	ppm	75
5) Phenol	6.369	94	386917	2.60	ppm #	78
6) bis(2-Chloroethyl)ether	6.515	93	57628	0.51	ppm #	68
8) Nitrobenzene	7.989	77	63935	0.52	ppm #	60
9) Naphthalene	9.383	128	165765	0.52	ppm	94
10) Hexachlorobutadiene	9.684	225	25095	0.51	ppm	77
11) 2-Methylnaphthalene	10.763	141	82525	0.51	ppm #	71
12) 1-Methylnaphthalene	10.948	141	100435	0.53	ppm	73
13) Hexachlorocyclopentadiene	11.112	237	31790	1.07	ppm	79
16) Acenaphthylene	12.542	152	147905	0.55	ppm	90
17) Acenaphthene	12.898	153	101641	0.57	ppm	93
18) 4,6-dinitro-2-methylph...	14.083	198	17820	2.95	ppm	67
19) Fluorene	13.932	166	113108	0.57	ppm	88
22) Hexachlorobenzene	15.065	284	31826	0.57	ppm	97
23) Pentachlorophenol	15.467	266	41546	2.75	ppm	99
24) Phenanthrene	15.853	178	159982	0.58	ppm	100
25) Anthracene	15.946	178	140300	0.58	ppm	99
26) Fluoranthene	18.110	202	172862	0.54	ppm	100
27) Pyrene	18.496	202	158726	0.53	ppm	98
29) Benzo[a]anthracene	20.582	228	117144	0.52	ppm	98
30) Chrysene	20.644	228	144335	0.55	ppm	99
32) Benzo[b]fluoranthene	22.245	252	117056	0.50	ppm	93
33) Benzo[k]fluoranthene	22.283	252	138073	0.57	ppm	95
34) Benzo[a]pyrene	22.697	252	112327	0.47	ppm	97
35) Indeno[1,2,3-cd]pyrene	24.258	276	102481	0.52	ppm	97
36) Dibenz[a,h]anthracene	24.295	278	82981	0.53	ppm	55
37) Benzo[g,h,i]perylene	24.672	276	97296	0.54	ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62374.D
Acq On : 20 Jun 2016 8:30 pm
Operator : ashleyd
Sample : ic2942-0.5
Misc : op94419a,e3m2942
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 21:39:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:23 2016
Response via : Initial Calibration

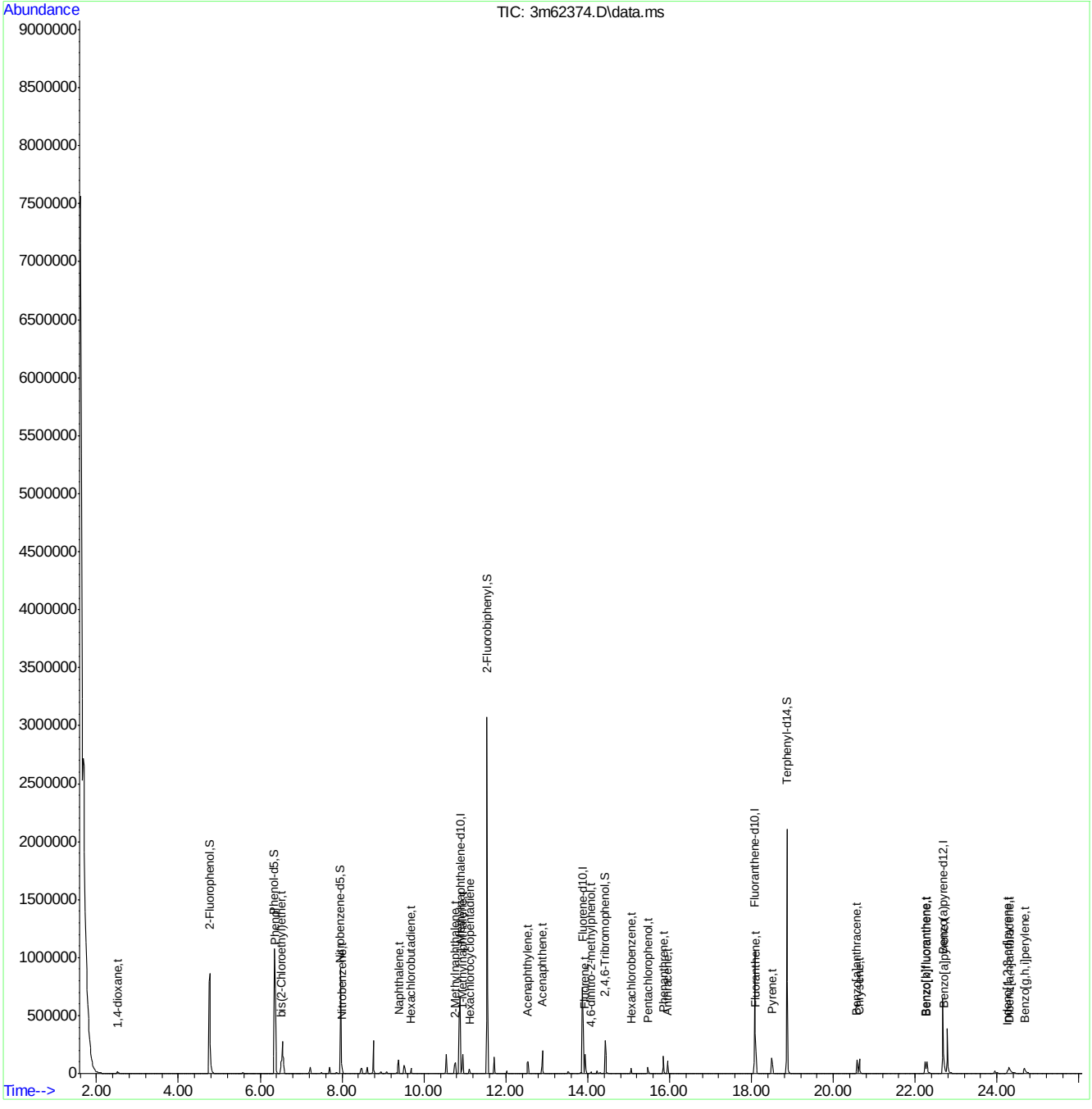
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62374.D
Acq On : 20 Jun 2016 8:30 pm
Operator : ashleyd
Sample : ic2942-0.5
Misc : op94419a,e3m2942
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 21:39:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:23 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62376.D
Acq On : 20 Jun 2016 9:36 pm
Operator : ashleyd
Sample : ic2942-0.02
Misc : op94419a,e3m2942
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 22:16:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:50 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	638422	4.00	ppm	0.00
14) Fluorene-d10	13.876	176	926948	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1476996	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	1032846	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	38852	0.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.74%	
4) Phenol-d5	6.345	99	60388	0.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.72%	
7) Nitrobenzene-d5	7.971	82	44329	0.34	ppm	0.02
Spiked Amount 50.000			Recovery	=	0.68%	
15) 2-Fluorobiphenyl	11.537	172	106932	0.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.72%	
20) 2,4,6-Tribromophenol	14.422	330	5432	0.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.42%	
28) Terphenyl-d14	18.867	244	64698	0.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.56%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	953	0.02	ppm	81
5) Phenol	6.370	94	16612	0.09	ppm #	87
6) bis(2-Chloroethyl)ether	6.515	93	2558	0.02	ppm	90
8) Nitrobenzene	7.989	77	2448	0.02	ppm #	52
9) Naphthalene	9.383	128	7469	0.02	ppm	94
10) Hexachlorobutadiene	9.684	225	1118	0.02	ppm	73
11) 2-Methylnaphthalene	10.763	141	6160	0.03	ppm	74
12) 1-Methylnaphthalene	10.948	141	4549	0.02	ppm	74
13) Hexachlorocyclopentadiene	11.112	237	831	0.02	ppm #	76
16) Acenaphthylene	12.542	152	5683	0.02	ppm	91
17) Acenaphthene	12.898	153	3871	0.02	ppm	90
18) 4,6-dinitro-2-methylph...	14.102	198	515	0.06	ppm #	48
19) Fluorene	13.932	166	4511	0.02	ppm	90
22) Hexachlorobenzene	15.065	284	1365	0.02	ppm	96
23) Pentachlorophenol	15.482	266	1624	0.08	ppm	91
24) Phenanthrene	15.853	178	6273	0.02	ppm	98
25) Anthracene	15.946	178	4659	0.01	ppm	98
26) Fluoranthene	18.110	202	11783	0.03	ppm	98
27) Pyrene	18.496	202	7982	0.02	ppm	98
29) Benzo[a]anthracene	20.582	228	5144	0.02	ppm	97
30) Chrysene	20.644	228	9509	0.03	ppm	96
34) Benzo[a]pyrene	22.697	252	11690	0.03	ppm	99
35) Indeno[1,2,3-cd]pyrene	24.258	276	2989	0.01	ppm	97
36) Dibenz[a,h]anthracene	24.296	278	2179	0.01	ppm	66
37) Benzo[g,h,i]perylene	24.672	276	3139	0.01	ppm	100

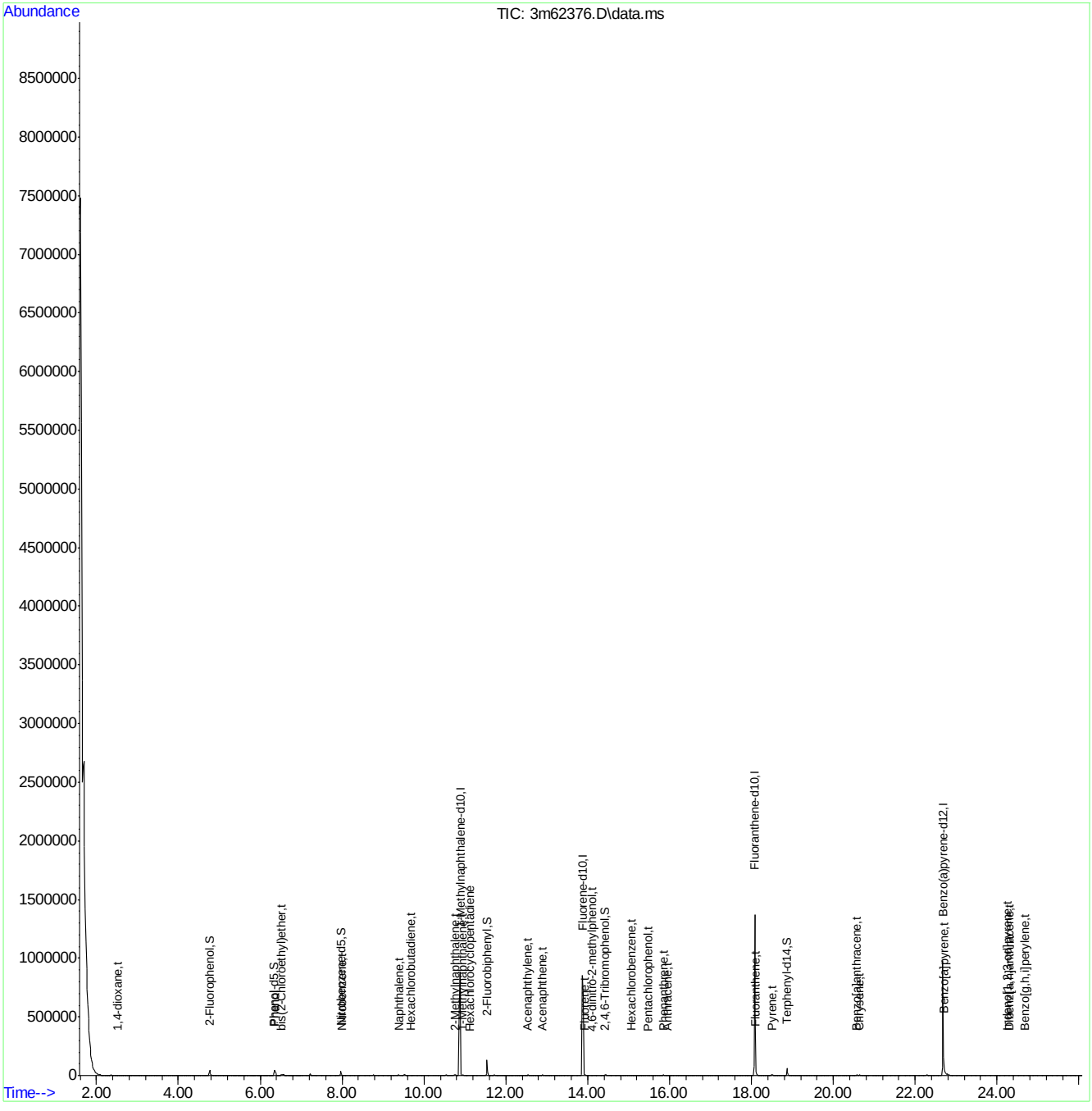
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62376.D
Acq On : 20 Jun 2016 9:36 pm
Operator : ashleyd
Sample : ic2942-0.02
Misc : op94419a,e3m2942
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 22:16:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:50 2016
Response via : Initial Calibration



M3M2942SIM.M Mon Jun 20 22:18:34 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62377.D
Acq On : 20 Jun 2016 10:10 pm
Operator : ashleyd
Sample : ic2942-0.01
Misc : op94419a,e3m2942
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 22:55:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:16:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	601557	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	867178	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1350669	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	891426	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	17307	0.18	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.36%	
4) Phenol-d5	6.345	99	27285	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
7) Nitrobenzene-d5	7.970	82	19802	0.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.32%	
15) 2-Fluorobiphenyl	11.537	172	47157	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
20) 2,4,6-Tribromophenol	14.422	330	2299	0.10	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.20%	
28) Terphenyl-d14	18.867	244	27546	0.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.26%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	545	0.01	ppm	# 54
5) Phenol	6.369	94	7517	0.04	ppm	# 90
6) bis(2-Chloroethyl)ether	6.514	93	1190	0.01	ppm	90
8) Nitrobenzene	7.989	77	1102	0.01	ppm	# 53
9) Naphthalene	9.383	128	3371	0.01	ppm	95
10) Hexachlorobutadiene	9.684	225	515	0.01	ppm	75
11) 2-Methylnaphthalene	10.763	141	4533	0.02	ppm	78
12) 1-Methylnaphthalene	10.947	141	2086	0.01	ppm	73
13) Hexachlorocyclopentadiene	11.112	237	333	0.01	ppm	# 71
16) Acenaphthylene	12.542	152	2520	0.01	ppm	90
17) Acenaphthene	12.897	153	1776	0.01	ppm	94
18) 4,6-dinitro-2-methylph...	14.101	198	353	0.05	ppm	# 44
22) Hexachlorobenzene	15.065	284	655	0.01	ppm	97
23) Pentachlorophenol	15.482	266	1182	0.06	ppm	96
24) Phenanthrene	15.853	178	3008	0.01	ppm	97
25) Anthracene	15.946	178	2109	0.01	ppm	98
26) Fluoranthene	18.109	202	7405	0.02	ppm	98
27) Pyrene	18.496	202	4718	0.01	ppm	96
29) Benzo[a]anthracene	20.582	228	3007	0.01	ppm	97
30) Chrysene	20.643	228	5892	0.02	ppm	98
34) Benzo[a]pyrene	22.696	252	8391	0.03	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.258	276	1281	0.01	ppm	92
36) Dibenz[a,h]anthracene	24.295	278	955	0.00	ppm	71
37) Benzo[g,h,i]perylene	24.671	276	1806	0.01	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.6

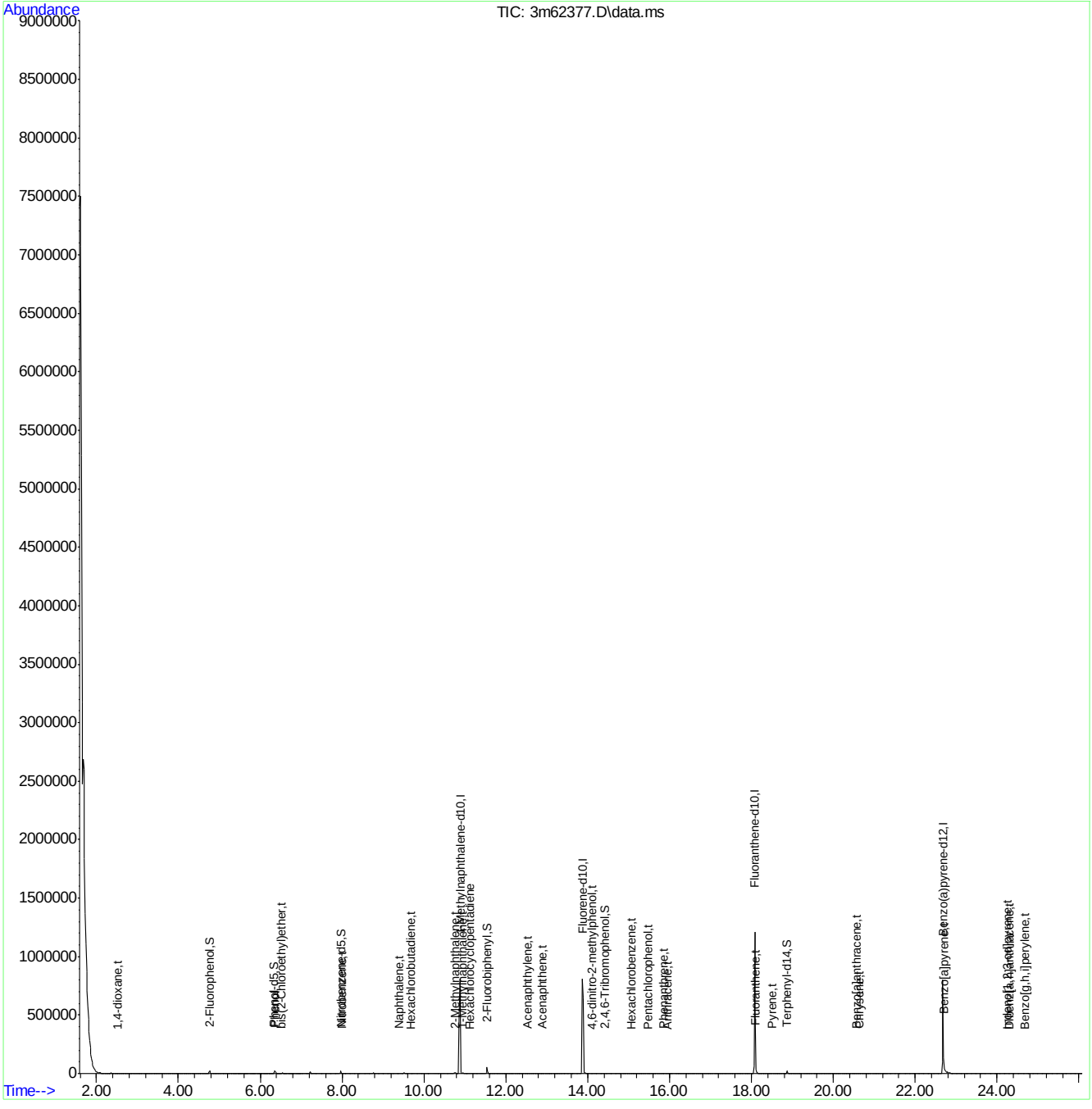
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62377.D
Acq On : 20 Jun 2016 10:10 pm
Operator : ashleyd
Sample : ic2942-0.01
Misc : op94419a,e3m2942
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 22:55:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:16:59 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62378.D
Acq On : 20 Jun 2016 10:43 pm
Operator : ashleyd
Sample : ic2942-5.0
Misc : op94419a,e3m2942
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 23:08:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:55:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	600602	4.00	ppm	0.00
14) Fluorene-d10	13.894	176	857773	4.00	ppm	0.02
21) Fluoranthene-d10	18.079	212	1312499	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	962800	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	8564918	87.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	174.42%	
4) Phenol-d5	6.370	99	13518401	86.47	ppm	0.02
Spiked Amount 50.000			Recovery	=	172.94%	
7) Nitrobenzene-d5	7.971	82	10955089	88.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	177.86%	
15) 2-Fluorobiphenyl	11.553	172	15352393	57.85	ppm	0.02
Spiked Amount 50.000			Recovery	=	115.70%	
20) 2,4,6-Tribromophenol	14.441	330	3140266	133.24	ppm	0.02
Spiked Amount 50.000			Recovery	=	266.48%	
28) Terphenyl-d14	18.882	244	15545206	75.25	ppm	0.02
Spiked Amount 50.000			Recovery	=	150.50%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.499	88	186962	5.00	ppm #	36
5) Phenol	6.394	94	3799210	22.48	ppm #	55
6) bis(2-Chloroethyl)ether	6.515	93	596906	4.73	ppm #	68
8) Nitrobenzene	8.008	77	693851	5.25	ppm	97
9) Naphthalene	9.383	128	1767896	4.90	ppm	95
10) Hexachlorobutadiene	9.684	225	251136	4.55	ppm	73
11) 2-Methylnaphthalene	10.763	141	887119	4.74	ppm	77
12) 1-Methylnaphthalene	10.948	141	1071882	4.94	ppm	78
13) Hexachlorocyclopentadiene	11.112	237	448305	12.94	ppm #	72
16) Acenaphthylene	12.542	152	1728196	5.57	ppm	92
17) Acenaphthene	12.898	153	1088142	5.19	ppm	87
18) 4,6-dinitro-2-methylph...	14.101	198	625697	80.76	ppm	74
19) Fluorene	13.932	166	1111209	4.54	ppm	80
22) Hexachlorobenzene	15.065	284	325659	4.83	ppm	90
23) Pentachlorophenol	15.467	266	835976	44.27	ppm	91
24) Phenanthrene	15.853	178	1641735	4.68	ppm	97
25) Anthracene	15.962	178	1645612	5.38	ppm	91
26) Fluoranthene	18.110	202	1797990	4.50	ppm	97
27) Pyrene	18.496	202	1849683	5.02	ppm	96
29) Benzo[a]anthracene	20.582	228	1395780	5.01	ppm	96
30) Chrysene	20.644	228	1549380	4.72	ppm	97
32) Benzo[b]fluoranthene	22.245	252	1461257	4.61	ppm	89
33) Benzo[k]fluoranthene	22.283	252	1521685	4.50	ppm	88
34) Benzo[a]pyrene	22.697	252	1232922	3.89	ppm	92
35) Indeno[1,2,3-cd]pyrene	24.277	276	1368173	5.14	ppm	90
36) Dibenz[a,h]anthracene	24.314	278	1102426	5.15	ppm	95
37) Benzo[g,h,i]perylene	24.672	276	1202870	4.83	ppm	100

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62378.D
Acq On : 20 Jun 2016 10:43 pm
Operator : ashleyd
Sample : ic2942-5.0
Misc : op94419a,e3m2942
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 23:08:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:55:49 2016
Response via : Initial Calibration

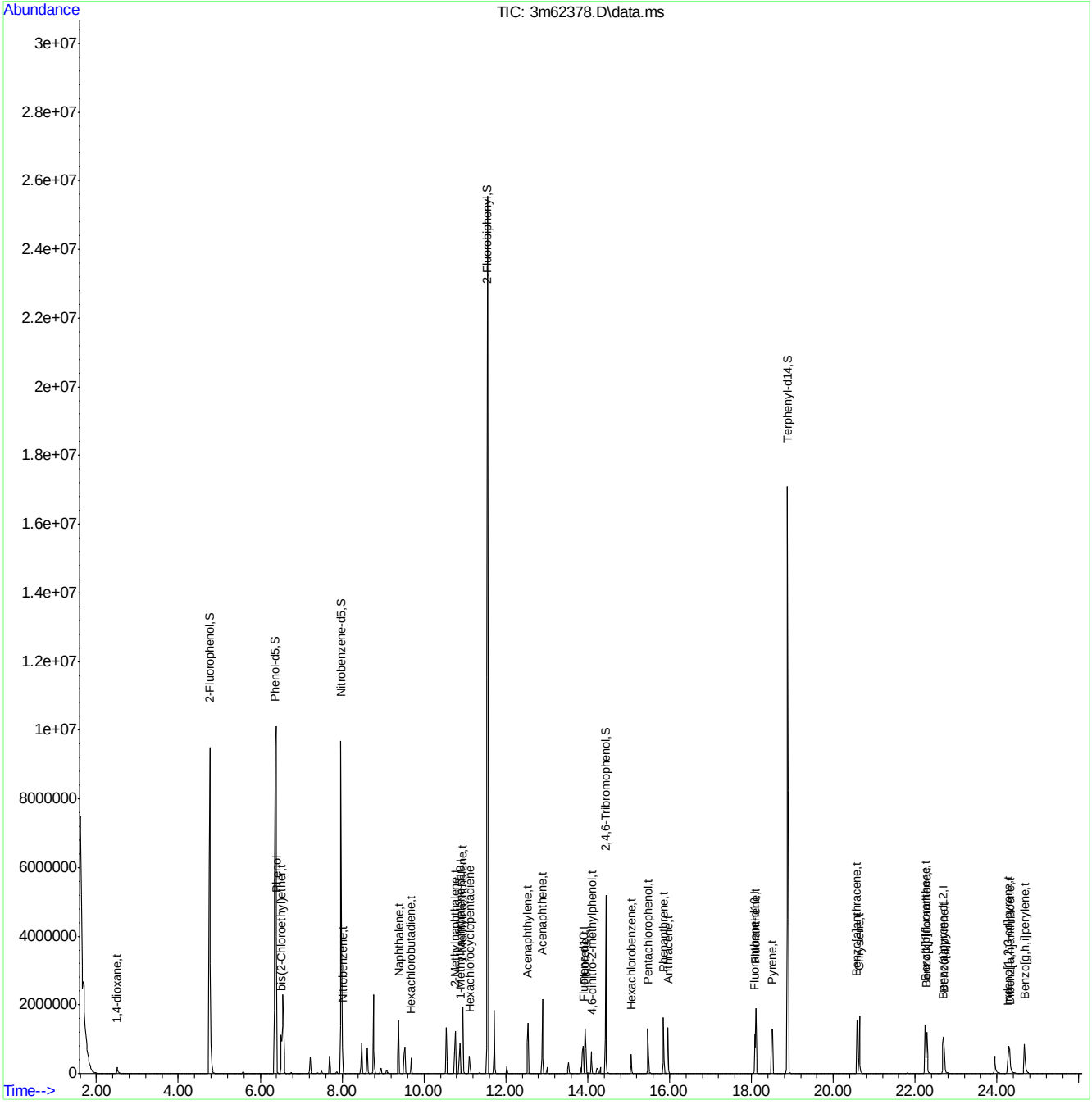
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62378.D
Acq On : 20 Jun 2016 10:43 pm
Operator : ashleyd
Sample : ic2942-5.0
Misc : op94419a,e3m2942
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 23:08:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:55:49 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62379.D
Acq On : 20 Jun 2016 11:16 pm
Operator : ashleyd
Sample : ic2942-2.5
Misc : op94419a,e3m2942
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 20 23:41:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:15:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.886	150	579707	4.00	ppm		0.00
14) Fluorene-d10	13.894	176	818906	4.00	ppm		0.00
21) Fluoranthene-d10	18.079	212	1258402	4.00	ppm		0.00
31) Benzo(a)pyrene-d12	22.678	264	930705	4.00	ppm		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	4.770	112	4289950	46.44	ppm		0.00
Spiked Amount 50.000			Recovery = 92.88%				
4) Phenol-d5	6.358	99	6700399	45.64	ppm		-0.01
Spiked Amount 50.000			Recovery = 91.28%				
7) Nitrobenzene-d5	7.971	82	6516023	56.04	ppm		0.00
Spiked Amount 50.000			Recovery = 112.08%				
15) 2-Fluorobiphenyl	11.553	172	12168361	48.03	ppm		0.00
Spiked Amount 50.000			Recovery = 96.06%				
20) 2,4,6-Tribromophenol	14.441	330	1413154	58.89	ppm		0.00
Spiked Amount 50.000			Recovery = 117.78%				
28) Terphenyl-d14	18.882	244	9783853	51.97	ppm		0.00
Spiked Amount 50.000			Recovery = 103.94%				
Target Compounds							Qvalue
2) 1,4-dioxane	2.514	88	86501	2.39	ppm		75
5) Phenol	6.382	94	1899479	11.84	ppm	#	62
6) bis(2-Chloroethyl)ether	6.515	93	292148	2.42	ppm		92
8) Nitrobenzene	7.990	77	334492	2.60	ppm	#	49
9) Naphthalene	9.383	128	845708	2.44	ppm		95
10) Hexachlorobutadiene	9.684	225	123120	2.34	ppm		73
11) 2-Methylnaphthalene	10.763	141	434460	2.43	ppm		77
12) 1-Methylnaphthalene	10.948	141	511871	2.45	ppm		76
13) Hexachlorocyclopentadiene	11.112	237	204078	5.76	ppm	#	74
16) Acenaphthylene	12.542	152	819251	2.72	ppm		92
17) Acenaphthene	12.898	153	524887	2.61	ppm		87
18) 4,6-dinitro-2-methylph...	14.083	198	218107	20.39	ppm	#	1
19) Fluorene	13.932	166	541721	2.36	ppm		81
22) Hexachlorobenzene	15.065	284	158520	2.46	ppm		92
23) Pentachlorophenol	15.467	266	350600	16.78	ppm		93
24) Phenanthrene	15.853	178	810149	2.44	ppm		97
25) Anthracene	15.962	178	783808	2.63	ppm		91
26) Fluoranthene	18.110	202	873928	2.33	ppm		97
27) Pyrene	18.496	202	872904	2.47	ppm		96
29) Benzo[a]anthracene	20.582	228	627701	2.35	ppm		95
30) Chrysene	20.644	228	741917	2.38	ppm		98
32) Benzo[b]fluoranthene	22.245	252	639587	2.12	ppm		87
33) Benzo[k]fluoranthene	22.283	252	718322	2.24	ppm		87
34) Benzo[a]pyrene	22.697	252	617603	2.11	ppm		93
35) Indeno[1,2,3-cd]pyrene	24.277	276	607573	2.35	ppm		92
36) Dibenz[a,h]anthracene	24.314	278	481114	2.31	ppm		91
37) Benzo[g,h,i]perylene	24.672	276	544846	2.28	ppm		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62379.D
Acq On : 20 Jun 2016 11:16 pm
Operator : ashleyd
Sample : ic2942-2.5
Misc : op94419a,e3m2942
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 20 23:41:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:15:12 2016
Response via : Initial Calibration

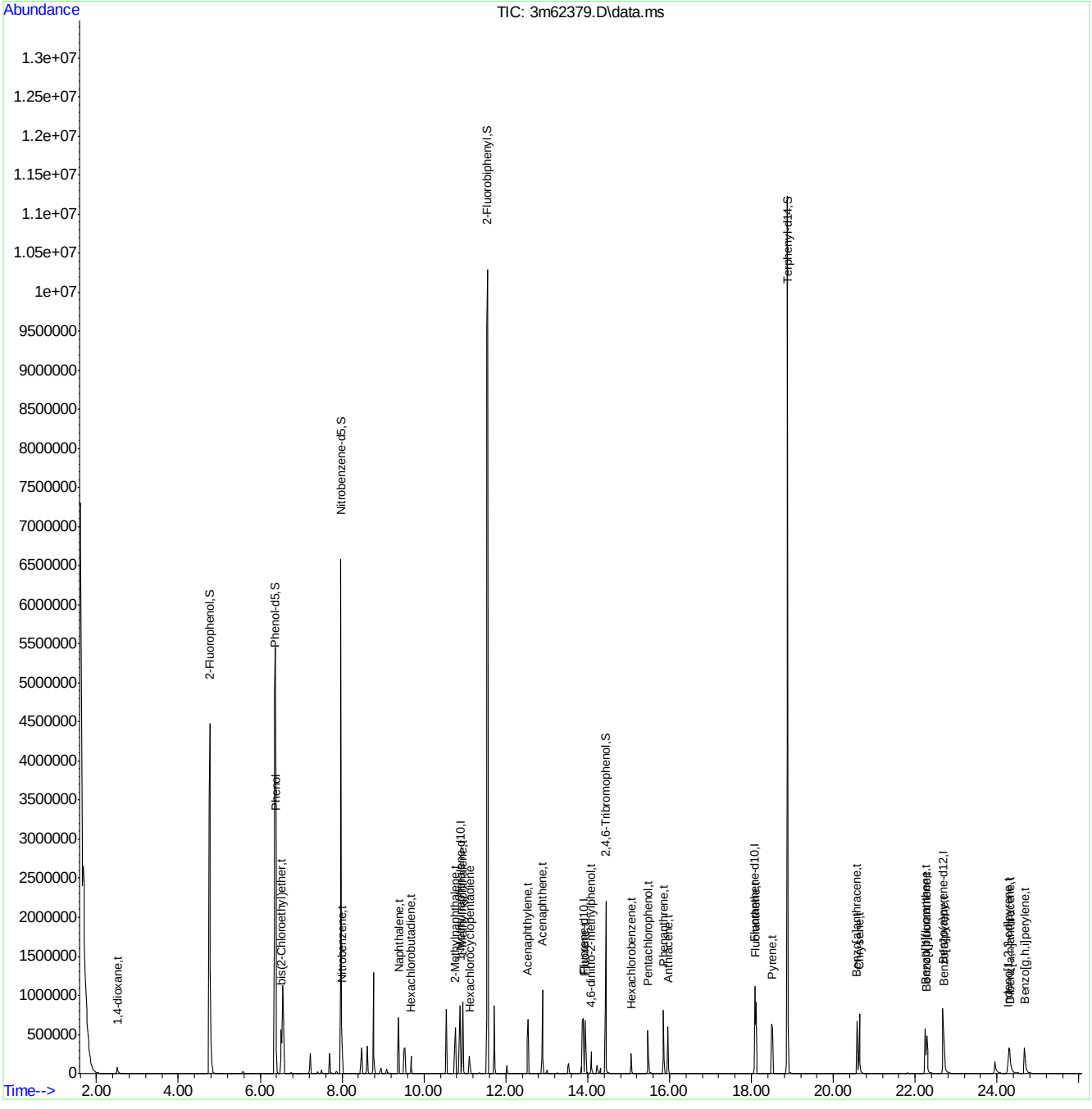
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62379.D
Acq On : 20 Jun 2016 11:16 pm
Operator : ashleyd
Sample : ic2942-2.5
Misc : op94419a,e3m2942
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 20 23:41:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:15:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62380.D
Acq On : 20 Jun 2016 11:50 pm
Operator : ashleyd
Sample : ic2942-0.05
Misc : op94419a,e3m2942
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:23:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:42:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	594761	4.00	ppm	0.00
14) Fluorene-d10	13.894	176	828012	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1294659	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	879559	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	90272	0.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.92%	
4) Phenol-d5	6.357	99	141589	0.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.90%	
7) Nitrobenzene-d5	7.971	82	114319	0.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.88%	
15) 2-Fluorobiphenyl	11.537	172	244695	0.96	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.92%	
20) 2,4,6-Tribromophenol	14.422	330	13226	0.53	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.06%	
28) Terphenyl-d14	18.867	244	151453	0.78	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.56%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	2001	0.05	ppm	85
5) Phenol	6.370	94	38837	0.24	ppm #	87
6) bis(2-Chloroethyl)ether	6.515	93	5740	0.05	ppm	94
8) Nitrobenzene	7.989	77	6320	0.05	ppm #	51
9) Naphthalene	9.383	128	16694	0.05	ppm	95
10) Hexachlorobutadiene	9.684	225	2525	0.05	ppm	72
11) 2-Methylnaphthalene	10.763	141	9457	0.05	ppm	77
12) 1-Methylnaphthalene	10.948	141	10223	0.05	ppm	78
13) Hexachlorocyclopentadiene	11.112	237	2384	0.06	ppm	78
16) Acenaphthylene	12.542	152	12787	0.04	ppm	92
17) Acenaphthene	12.898	153	8657	0.04	ppm	89
18) 4,6-dinitro-2-methylph...	14.102	198	947	0.08	ppm	73
19) Fluorene	13.932	166	9971	0.04	ppm	85
22) Hexachlorobenzene	15.065	284	3106	0.05	ppm	92
23) Pentachlorophenol	15.482	266	2494	0.11	ppm	93
24) Phenanthrene	15.853	178	13421	0.04	ppm	97
25) Anthracene	15.962	178	10109	0.03	ppm	91
26) Fluoranthene	18.110	202	19378	0.05	ppm	97
27) Pyrene	18.496	202	13995	0.04	ppm	96
29) Benzo[a]anthracene	20.582	228	6970	0.03	ppm	97
30) Chrysene	20.644	228	13746	0.04	ppm	96
34) Benzo[a]pyrene	22.697	252	18256	0.07	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.258	276	4614	0.02	ppm	98
36) Dibenz[a,h]anthracene	24.295	278	3158	0.02	ppm	75
37) Benzo[g,h,i]perylene	24.672	276	5641	0.03	ppm	97

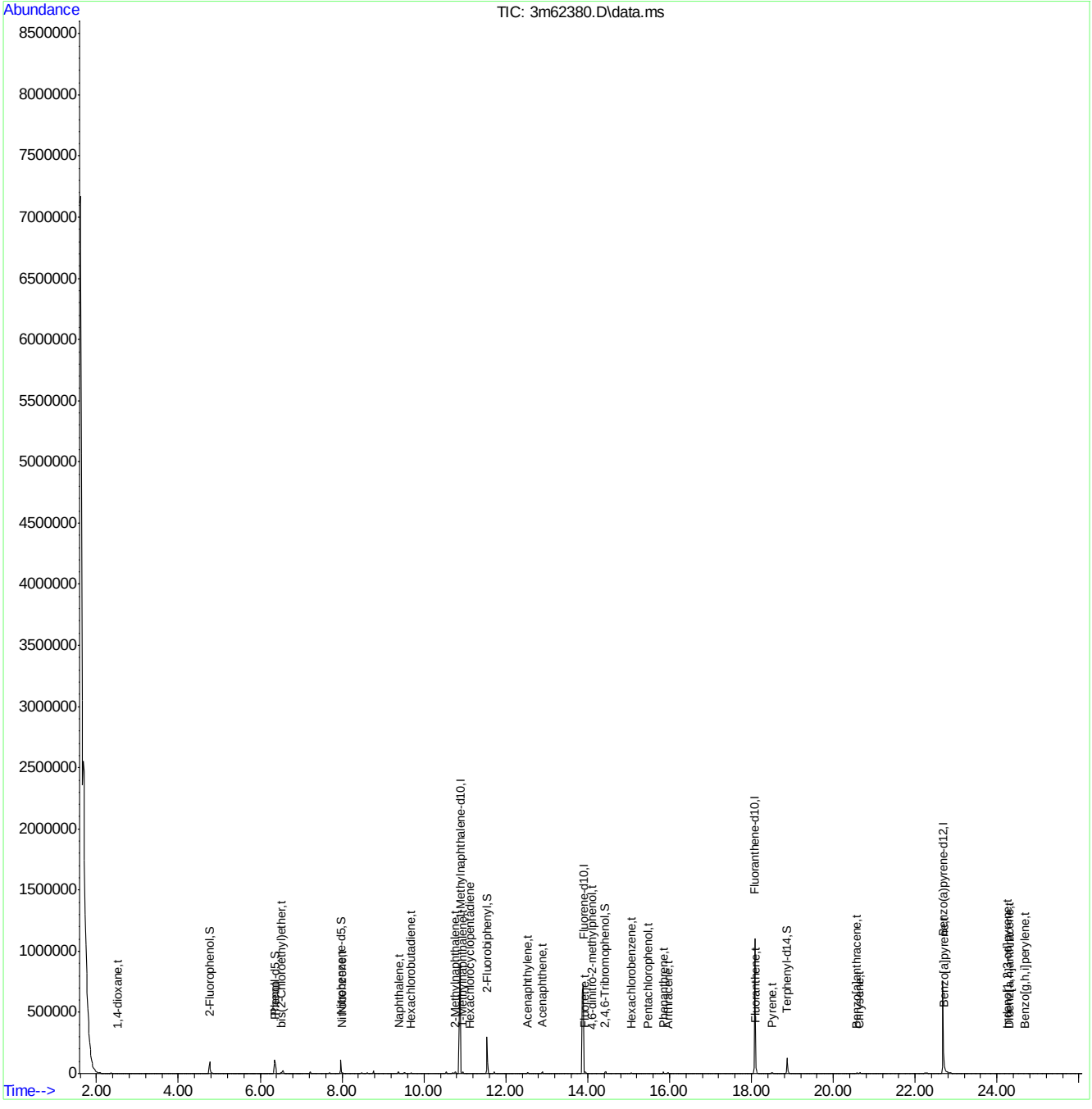
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62380.D
Acq On : 20 Jun 2016 11:50 pm
Operator : ashleyd
Sample : ic2942-0.05
Misc : op94419a,e3m2942
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:23:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:42:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62382.D
Acq On : 21 Jun 2016 12:56 am
Operator : ashleyd
Sample : icv2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 21 08:37:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	579092	4.00	ppm	0.00
14) Fluorene-d10	13.894	176	694080	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1041559	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	654058	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
4) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
5) Phenol	6.369	94	676200	4.28	ppm	92
18) 4,6-dinitro-2-methylph...	14.083	198	44531	4.45	ppm #	8
23) Pentachlorophenol	15.467	266	84804	4.22	ppm	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.10

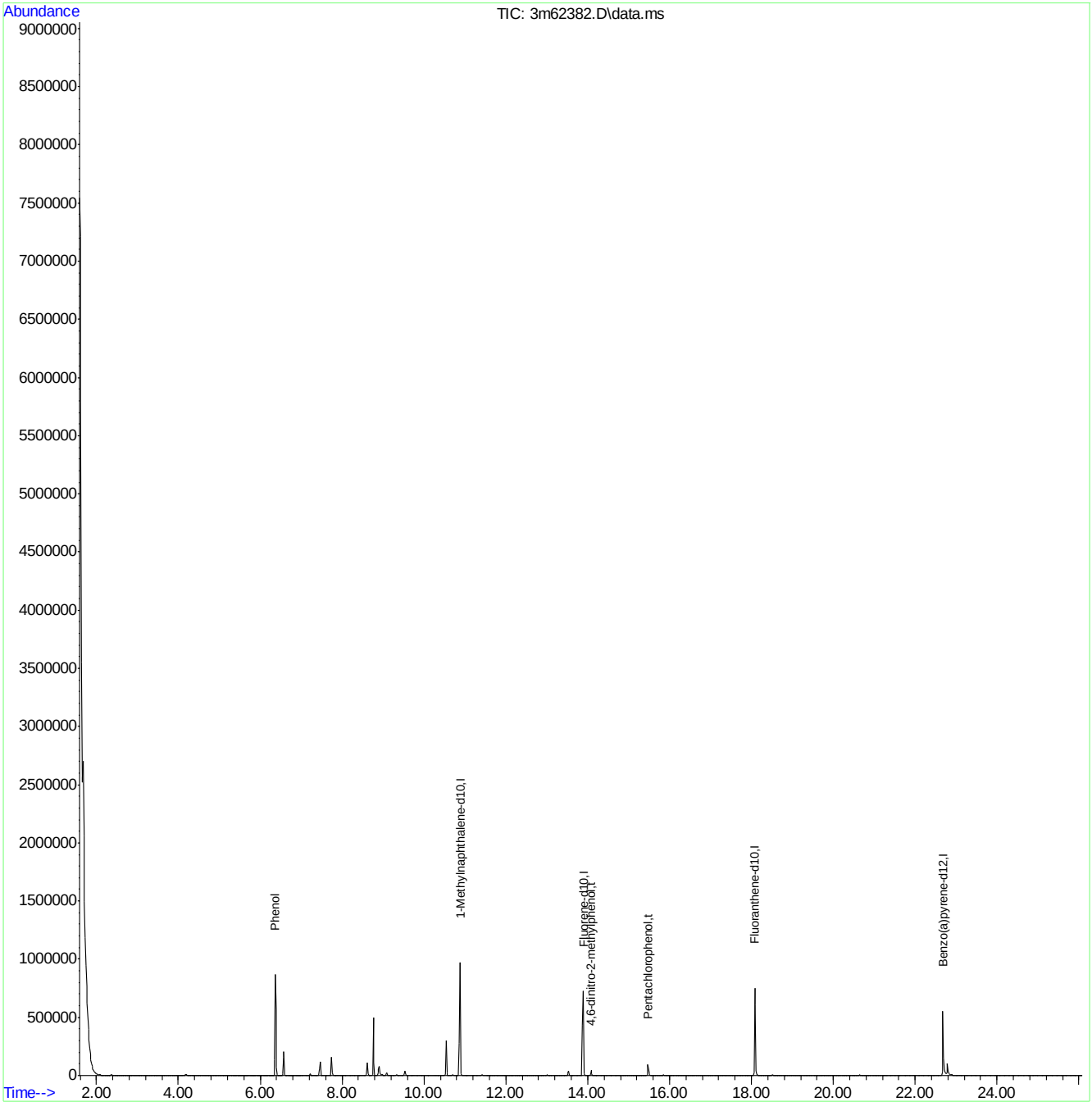
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62382.D
Acq On : 21 Jun 2016 12:56 am
Operator : ashleyd
Sample : icv2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 21 08:37:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration



M3M2942SIM.M Tue Jun 21 08:37:16 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62384.D
Acq On : 21 Jun 2016 9:26 am
Operator : linseyk
Sample : icv2942-1
Misc : op94419a,e3m2943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:04:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.866	150	708145	4.00 ppm	-0.02
14) Fluorene-d10	13.876	176	870402	4.00 ppm	-0.02
21) Fluoranthene-d10	18.079	212	1218863	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.659	264	858647	4.00 ppm	-0.02
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.514	88	45984	1.05 ppm	# 65
6) bis(2-Chloroethyl)ether	6.503	93	148876	1.02 ppm	96
8) Nitrobenzene	7.989	77	133582	0.85 ppm	85
9) Naphthalene	9.364	128	430549	1.03 ppm	99
10) Hexachlorobutadiene	9.684	225	58543	0.92 ppm	99
11) 2-Methylnaphthalene	10.743	141	232262	1.06 ppm	97
16) Acenaphthylene	12.527	152	373409	1.15 ppm	95
17) Acenaphthene	12.882	153	246586	1.17 ppm	79
19) Fluorene	13.932	166	260779	1.09 ppm	94
22) Hexachlorobenzene	15.049	284	72681	1.18 ppm	82
24) Phenanthrene	15.838	178	360070	1.16 ppm	93
25) Anthracene	15.946	178	328477	1.13 ppm	94
26) Fluoranthene	18.094	202	379785	1.05 ppm	92
27) Pyrene	18.496	202	395836	1.20 ppm	95
29) Benzo[a]anthracene	20.582	228	323807	1.30 ppm	94
30) Chrysene	20.628	228	315503	1.08 ppm	89
32) Benzo[b]fluoranthene	22.245	252	300702	1.11 ppm	97
33) Benzo[k]fluoranthene	22.283	252	299492	1.03 ppm	97
34) Benzo[a]pyrene	22.697	252	300625	1.05 ppm	97
35) Indeno[1,2,3-cd]pyrene	24.258	276	298235	1.26 ppm	95
36) Dibenz[a,h]anthracene	24.296	278	233523	1.23 ppm	81
37) Benzo[g,h,i]perylene	24.672	276	261582	1.20 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.11

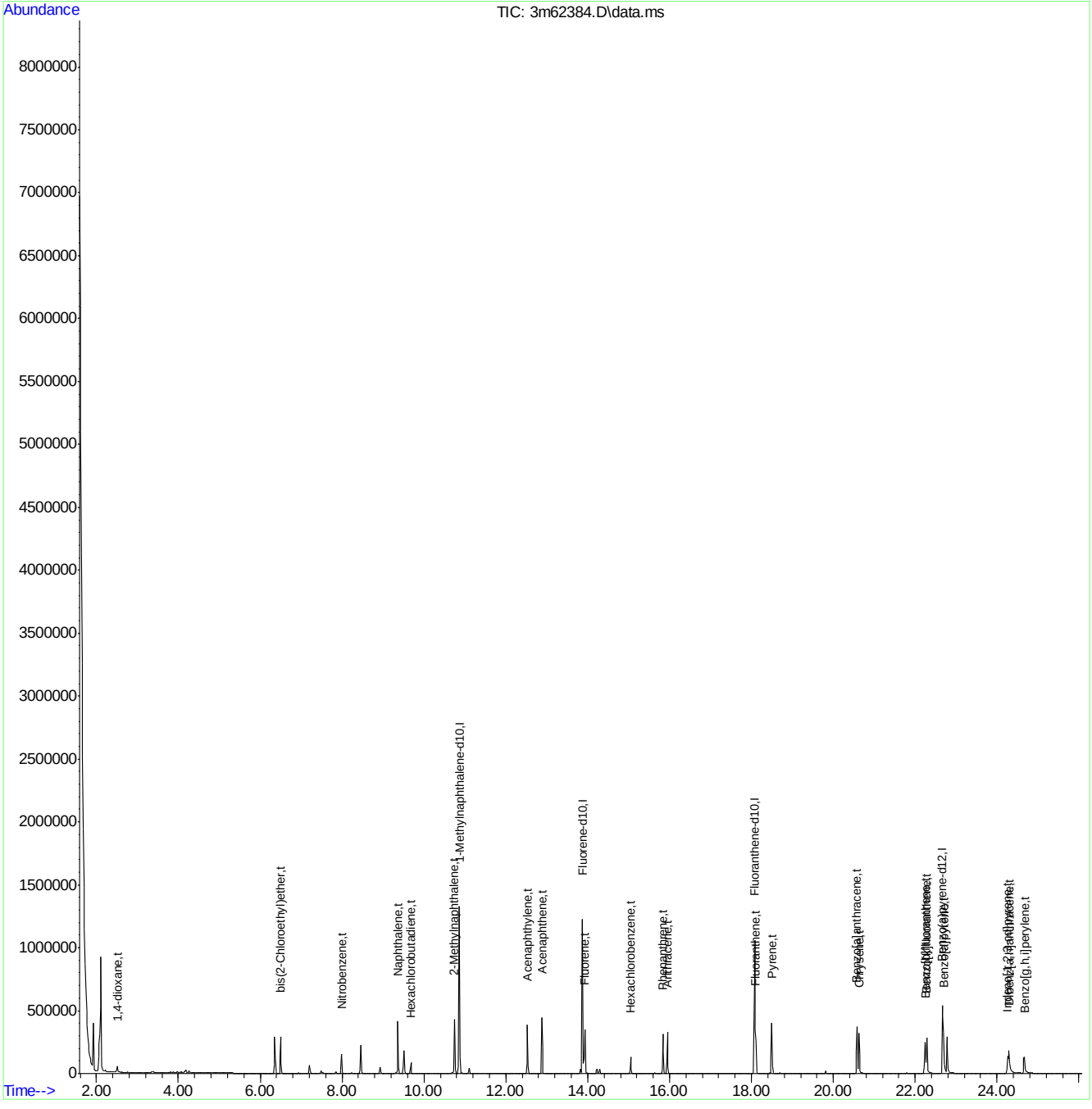
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62384.D
Acq On : 21 Jun 2016 9:26 am
Operator : linseyk
Sample : icv2942-1
Misc : op94419a,e3m2943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:04:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration



M3M2942SIM.M Tue Jun 21 14:12:33 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62851.D
Acq On : 8 Jul 2016 10:15 am
Operator : linseyk
Sample : cc2942-.5
Misc : op95160a,e3m2968
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 10:40:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.661	150	511292	4.00	ppm	-0.10
14) Fluorene-d10	13.668	176	761790	4.00	ppm	-0.06
21) Fluoranthene-d10	17.873	212	1248053	4.00	ppm	-0.05
31) Benzo(a)pyrene-d12	22.469	264	1080276	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.631	112	726457	9.07	ppm	-0.09
Spiked Amount 50.000			Recovery	=	18.14%	
4) Phenol-d5	6.237	99	1113499	8.78	ppm	-0.05
Spiked Amount 50.000			Recovery	=	17.56%	
7) Nitrobenzene-d5	7.763	82	1011441	9.75	ppm	-0.12
Spiked Amount 50.000			Recovery	=	19.50%	
15) 2-Fluorobiphenyl	11.337	172	2052066	8.80	ppm	-0.06
Spiked Amount 50.000			Recovery	=	17.60%	
20) 2,4,6-Tribromophenol	14.233	330	265218	10.77	ppm	-0.01
Spiked Amount 50.000			Recovery	=	21.54%	
28) Terphenyl-d14	18.677	244	2049624	10.91	ppm	-0.03
Spiked Amount 50.000			Recovery	=	21.82%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.360	88	14686	0.46	ppm #	62
5) Phenol	6.261	94	299020	2.14	ppm #	86
6) bis(2-Chloroethyl)ether	6.321	93	43582	0.41	ppm #	54
8) Nitrobenzene	7.801	77	54112	0.48	ppm	84
9) Naphthalene	9.176	128	141918	0.47	ppm	95
10) Hexachlorobutadiene	9.477	225	24530	0.54	ppm	86
11) 2-Methylnaphthalene	10.537	141	71952	0.46	ppm #	61
12) 1-Methylnaphthalene	10.743	141	78814	0.43	ppm	85
13) Hexachlorocyclopentadiene	10.907	237	33900	1.06	ppm	88
16) Acenaphthylene	12.326	152	145222	0.51	ppm	99
17) Acenaphthene	12.681	153	93306	0.50	ppm	95
18) 4,6-dinitro-2-methylph...	13.894	198	43569	4.09	ppm	92
19) Fluorene	13.725	166	105586	0.51	ppm	85
22) Hexachlorobenzene	14.844	284	32465	0.51	ppm	96
23) Pentachlorophenol	15.276	266	45650	2.11	ppm	90
24) Phenanthrene	15.632	178	152705	0.48	ppm	99
25) Anthracene	15.740	178	144869	0.49	ppm	100
26) Fluoranthene	17.904	202	179235	0.49	ppm	98
27) Pyrene	18.290	202	178504	0.53	ppm	98
29) Benzo[a]anthracene	20.376	228	161645	0.63	ppm	97
30) Chrysene	20.438	228	167707	0.56	ppm	97
32) Benzo[b]fluoranthene	22.037	252	160693	0.47	ppm	88
33) Benzo[k]fluoranthene	22.074	252	152196	0.42	ppm	82
34) Benzo[a]pyrene	22.488	252	155565	0.43	ppm	94
35) Indeno[1,2,3-cd]pyrene	24.012	276	170996	0.57	ppm	95
36) Dibenz[a,h]anthracene	24.049	278	139005	0.58	ppm	92
37) Benzo[g,h,i]perylene	24.388	276	144373	0.53	ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62851.D
Acq On : 8 Jul 2016 10:15 am
Operator : linseyk
Sample : cc2942-.5
Misc : op95160a,e3m2968
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 10:40:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration

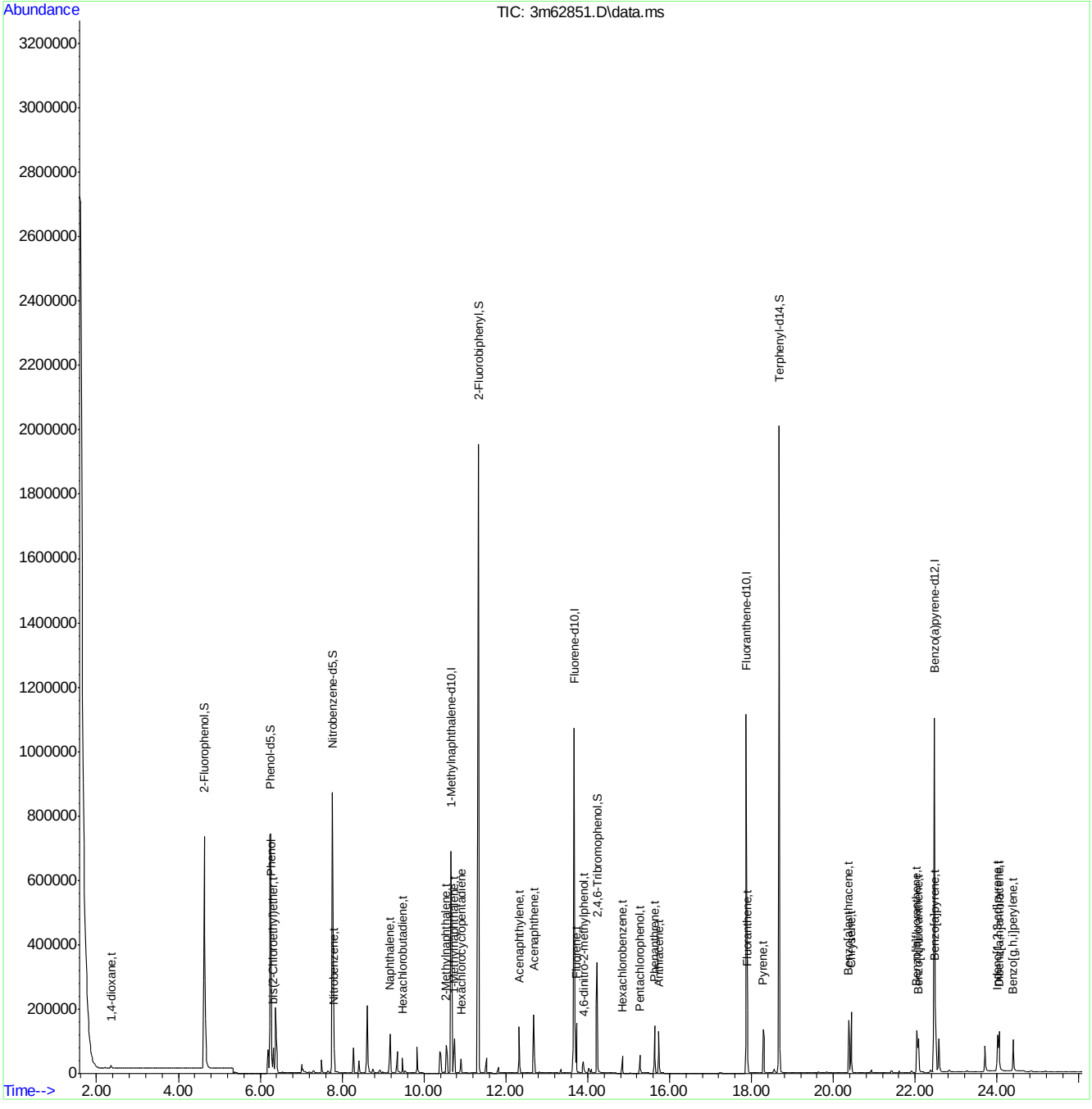
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2968\
Data File : 3m62851.D
Acq On : 8 Jul 2016 10:15 am
Operator : linseyk
Sample : cc2942-.5
Misc : op95160a,e3m2968
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 08 10:40:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 09:00:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/11/16 10:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	54447	4.00	ppm	0.00
14) Fluorene-d10	14.093	176	82620	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	129840	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.812	264	96457	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.039	112	162469	20.41	ppm	0.00
Spiked Amount 50.000			Recovery = 40.82%			
4) Phenol-d5	6.603	99	205430	20.35	ppm	0.00
Spiked Amount 50.000			Recovery = 40.70%			
7) Nitrobenzene-d5	8.205	82	164537	20.35	ppm	0.00
Spiked Amount 50.000			Recovery = 40.70%			
15) 2-Fluorobiphenyl	11.756	172	344958	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
20) 2,4,6-Tribromophenol	14.639	330	56519	19.68	ppm	0.00
Spiked Amount 50.000			Recovery = 39.36%			
28) Terphenyl-d14	19.029	244	285010	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	5732	0.78	ppm #	1
5) Phenol	6.627	94	45417	5.09	ppm #	68
6) bis(2-Chloroethyl)ether	6.772	93	7943	0.99	ppm	91
8) Nitrobenzene	8.243	77	8332	0.98	ppm	74
9) Naphthalene	9.617	128	31368	1.02	ppm	98
10) Hexachlorobutadiene	9.919	225	4960	1.02	ppm	79
11) 2-Methylnaphthalene	10.977	141	16196	0.98	ppm	87
12) 1-Methylnaphthalene	11.182	141	13827	0.99	ppm #	58
13) Hexachlorocyclopentadiene	11.346	237	7201	2.04	ppm	99
16) Acenaphthylene	12.751	152	27400	0.99	ppm	98
17) Acenaphthene	13.107	153	17497	1.00	ppm	78
18) 4,6-dinitro-2-methylph...	14.300	198	6340	5.00	ppm	89
19) Fluorene	14.149	166	17779	1.00	ppm	97
22) Hexachlorobenzene	15.272	284	6556	1.00	ppm	98
23) Pentachlorophenol	15.674	266	15830	5.18	ppm	91
24) Phenanthrene	16.045	178	28166	0.99	ppm	92
25) Anthracene	16.154	178	25387	1.00	ppm	94
26) Fluoranthene	18.287	202	26178	1.00	ppm	98
27) Pyrene	18.673	202	29156	1.00	ppm	96
29) Benzo[a]anthracene	20.728	228	25038	0.98	ppm	90
30) Chrysene	20.790	228	26686	0.95	ppm	99
32) Benzo[b]fluoranthene	22.398	252	30952m	0.94	ppm	
33) Benzo[k]fluoranthene	22.436	252	27300m	0.98	ppm	
34) Benzo[a]pyrene	22.850	252	23964	1.00	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	29231	0.96	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	23777	1.02	ppm	76
37) Benzo[g,h,i]perylene	24.881	276	27395	1.01	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration

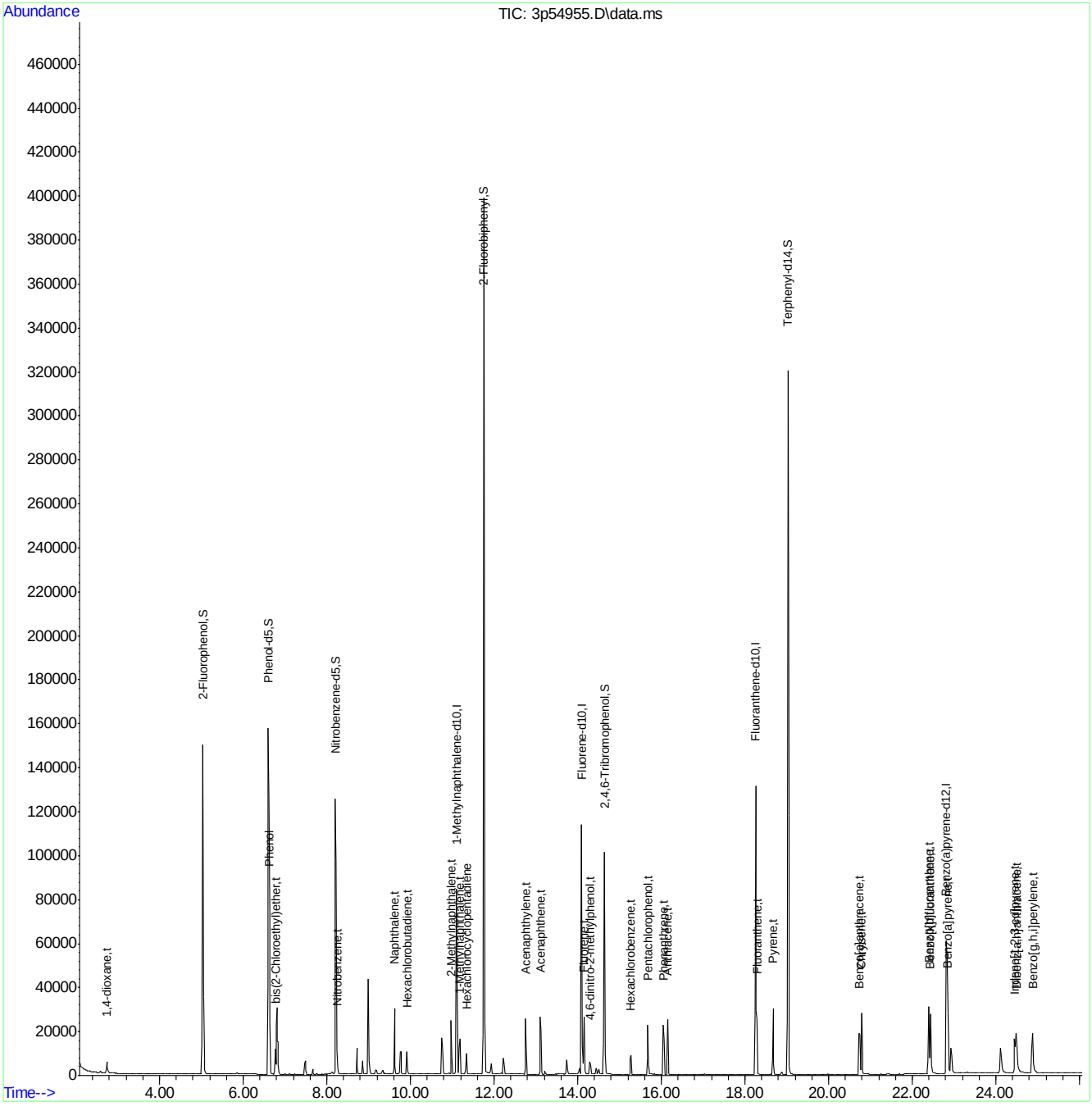
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:07:57 2016 Page: 3

SGS ACCUTEST JC23443

Manual Integration Approval Summary

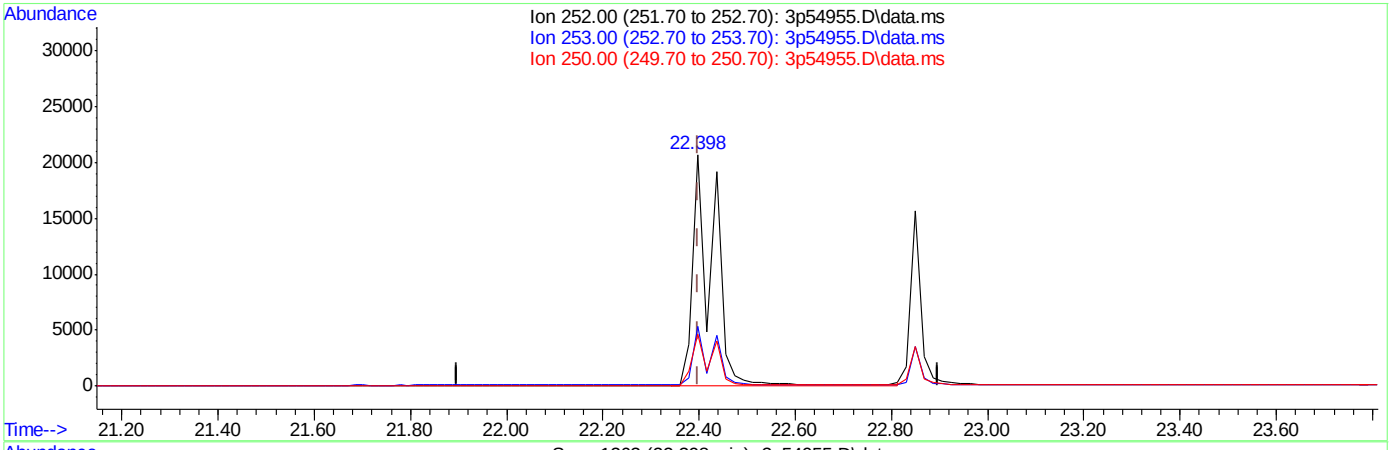
Sample Number:	E3P2503-ICC2503	**Method:**	SW846 8270D BY SIM
Lab FileID:	3P54955.D	**Analyst approved:**	07/11/16 10:13 Ashley Dye
Injection Time:	07/06/16 10:32	**Supervisor approved:**	07/11/16 10:45 Nina Pandya

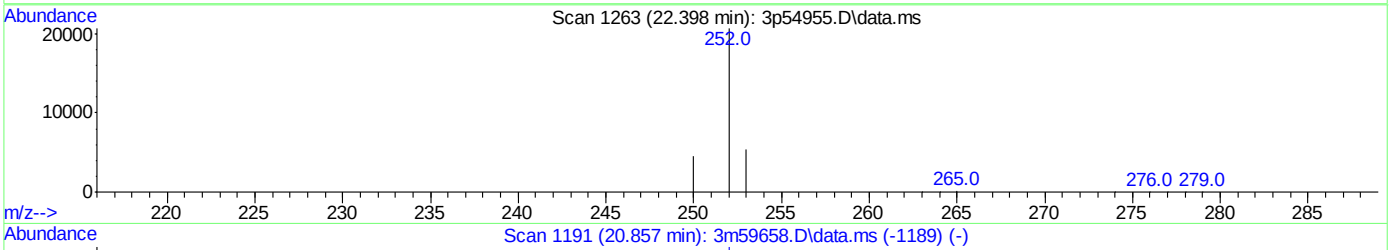
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		22.40	Overlapping peak
Benzo(k)fluoranthene	207-08-9		22.44	Overlapping peak

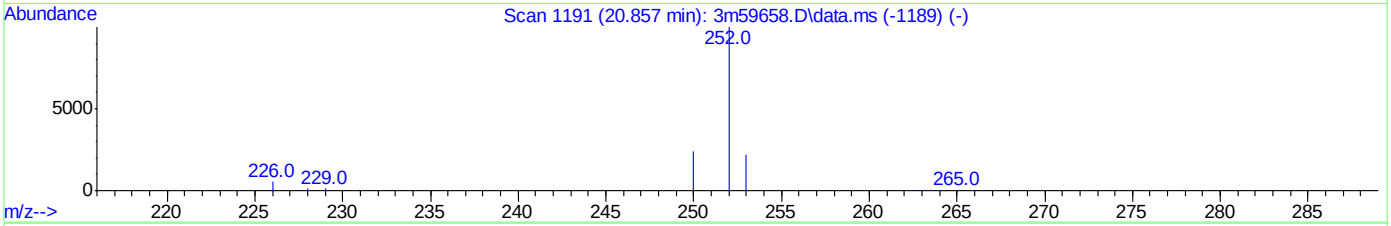
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op94978,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:24:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration







TIC: 3p54955.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (0.000) 1.85ppm

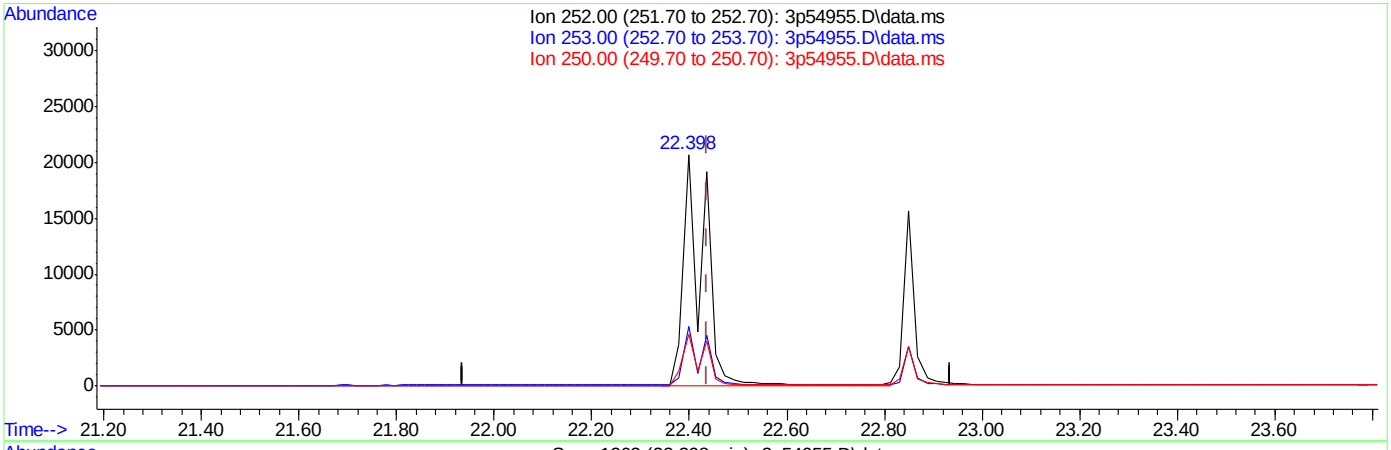
response 60924

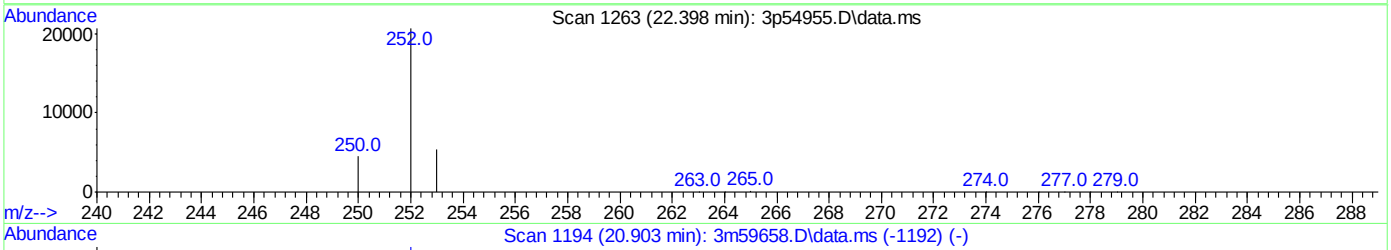
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.36
250.00	23.10	21.99
0.00	0.00	0.00

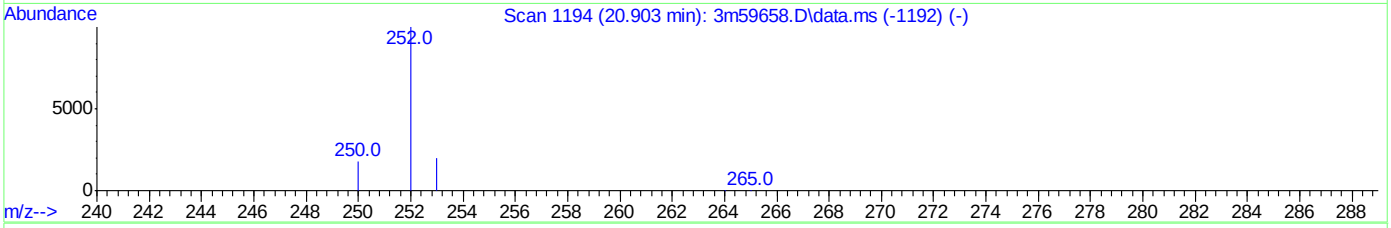
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op94978,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:24:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration







TIC: 3p54955.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.398min (-0.038) 2.19ppm

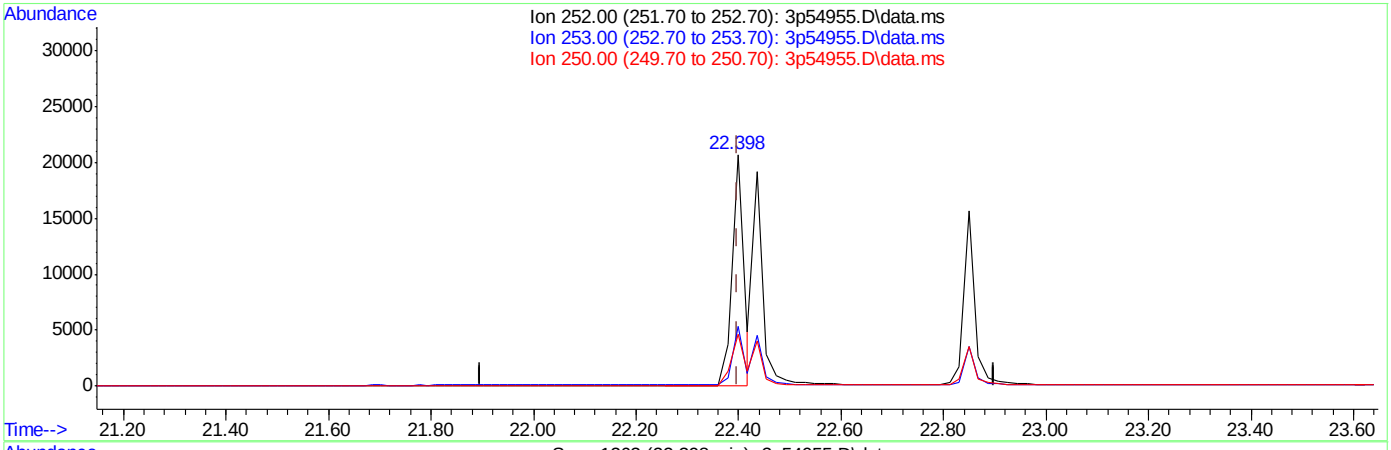
response 60924

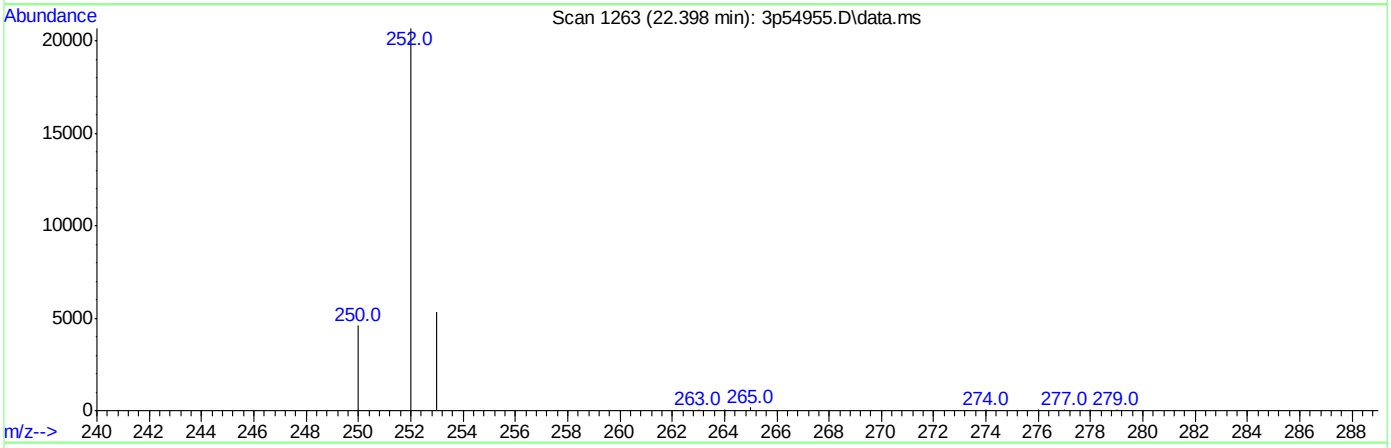
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.36
250.00	23.10	21.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration





TIC: 3p54955.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (0.000) 0.94ppm m

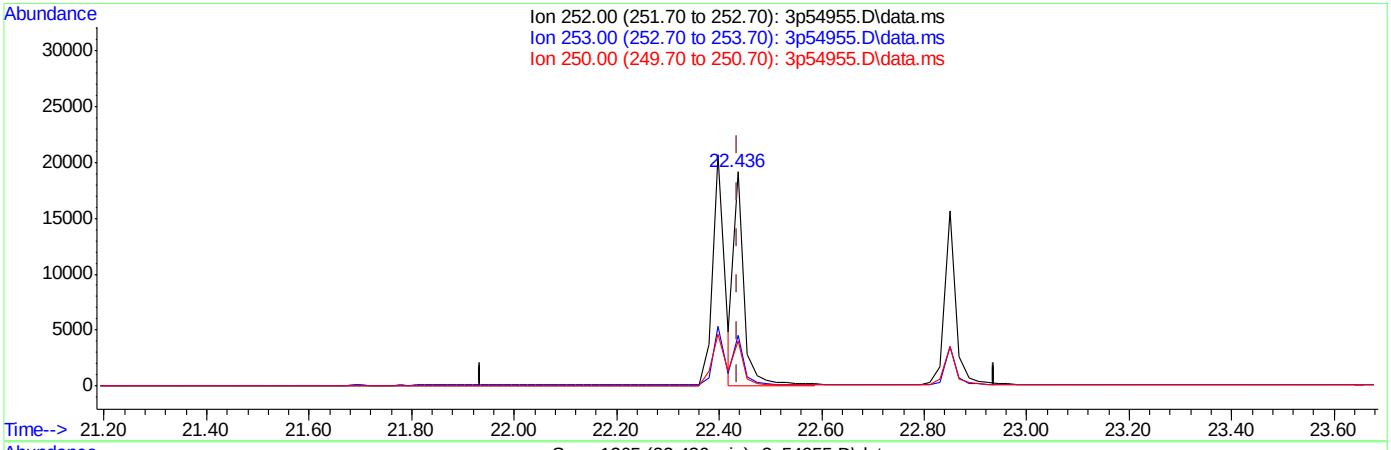
response 30952

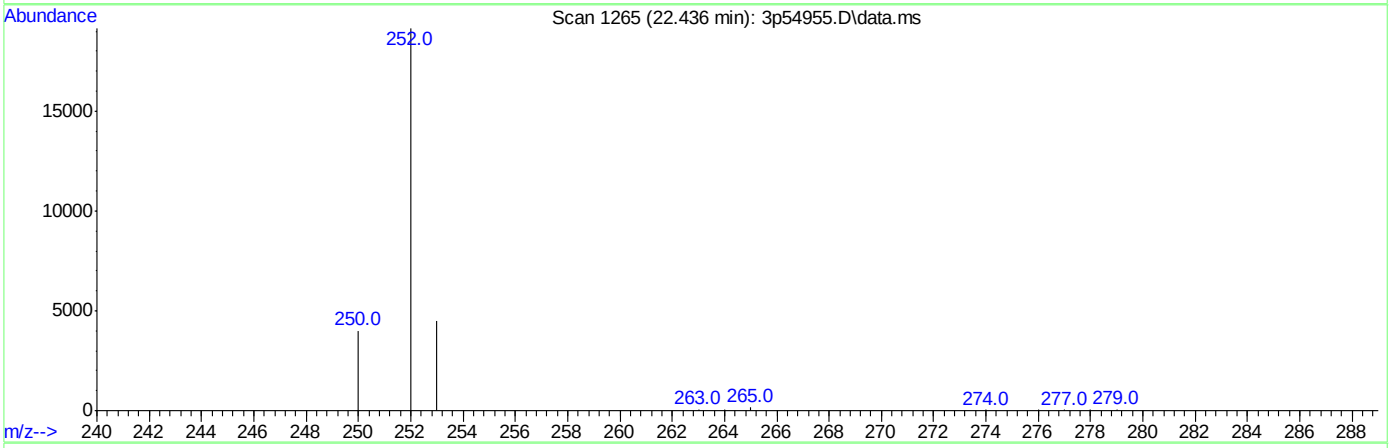
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.77
250.00	23.10	22.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54955.D
Acq On : 6 Jul 2016 10:32 am
Operator : hankc
Sample : icc2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 17:25:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:23:56 2016
Response via : Initial Calibration





TIC: 3p54955.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.436min (0.000) 0.98ppm m

response 27300

Ion	Exp%	Act%
252.00	100	100
253.00	23.60	23.48
250.00	23.10	20.89
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54956.D
Acq On : 6 Jul 2016 11:26 am
Operator : hankc
Sample : ic2503-0.01
Misc : op95179a,e3p2503
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 17:26:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:25:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	79545	4.00	ppm	0.00
14) Fluorene-d10	14.093	176	120952	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	177380	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	143417	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	2956	0.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.50%	
4) Phenol-d5	6.602	99	4067	0.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.54%	
7) Nitrobenzene-d5	8.205	82	3272	0.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.54%	
15) 2-Fluorobiphenyl	11.756	172	6506	0.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.52%	
20) 2,4,6-Tribromophenol	14.639	330	685	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
28) Terphenyl-d14	19.029	244	4989	0.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.52%	
Target Compounds						Qvalue
5) Phenol	6.627	94	1100	0.08	ppm	# 74
6) bis(2-Chloroethyl)ether	6.772	93	171	0.01	ppm	92
9) Naphthalene	9.617	128	584	0.01	ppm	98
11) 2-Methylnaphthalene	10.977	141	822	0.03	ppm	88
12) 1-Methylnaphthalene	11.182	141	249	0.01	ppm	# 66
13) Hexachlorocyclopentadiene	11.346	237	55	0.01	ppm	96
16) Acenaphthylene	12.751	152	434	0.01	ppm	99
17) Acenaphthene	13.107	153	301	0.01	ppm	79
18) 4,6-dinitro-2-methylph...	14.300	198	137	0.07	ppm	67
19) Fluorene	14.149	166	258	0.01	ppm	96
22) Hexachlorobenzene	15.272	284	101	0.01	ppm	99
23) Pentachlorophenol	15.674	266	544	0.13	ppm	98
24) Phenanthrene	16.045	178	465	0.01	ppm	93
25) Anthracene	16.154	178	405	0.01	ppm	94
26) Fluoranthene	18.287	202	485	0.01	ppm	99
27) Pyrene	18.673	202	436	0.01	ppm	97
29) Benzo[a]anthracene	20.744	228	406	0.01	ppm	92
30) Chrysene	20.790	228	418	0.01	ppm	99
32) Benzo[b]fluoranthene	22.398	252	640	0.01	ppm	99
33) Benzo[k]fluoranthene	22.436	252	580	0.01	ppm	94
35) Indeno[1,2,3-cd]pyrene	24.467	276	485	0.01	ppm	93
36) Dibenz[a,h]anthracene	24.505	278	351	0.01	ppm	54
37) Benzo[g,h,i]perylene	24.881	276	516	0.01	ppm	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.14

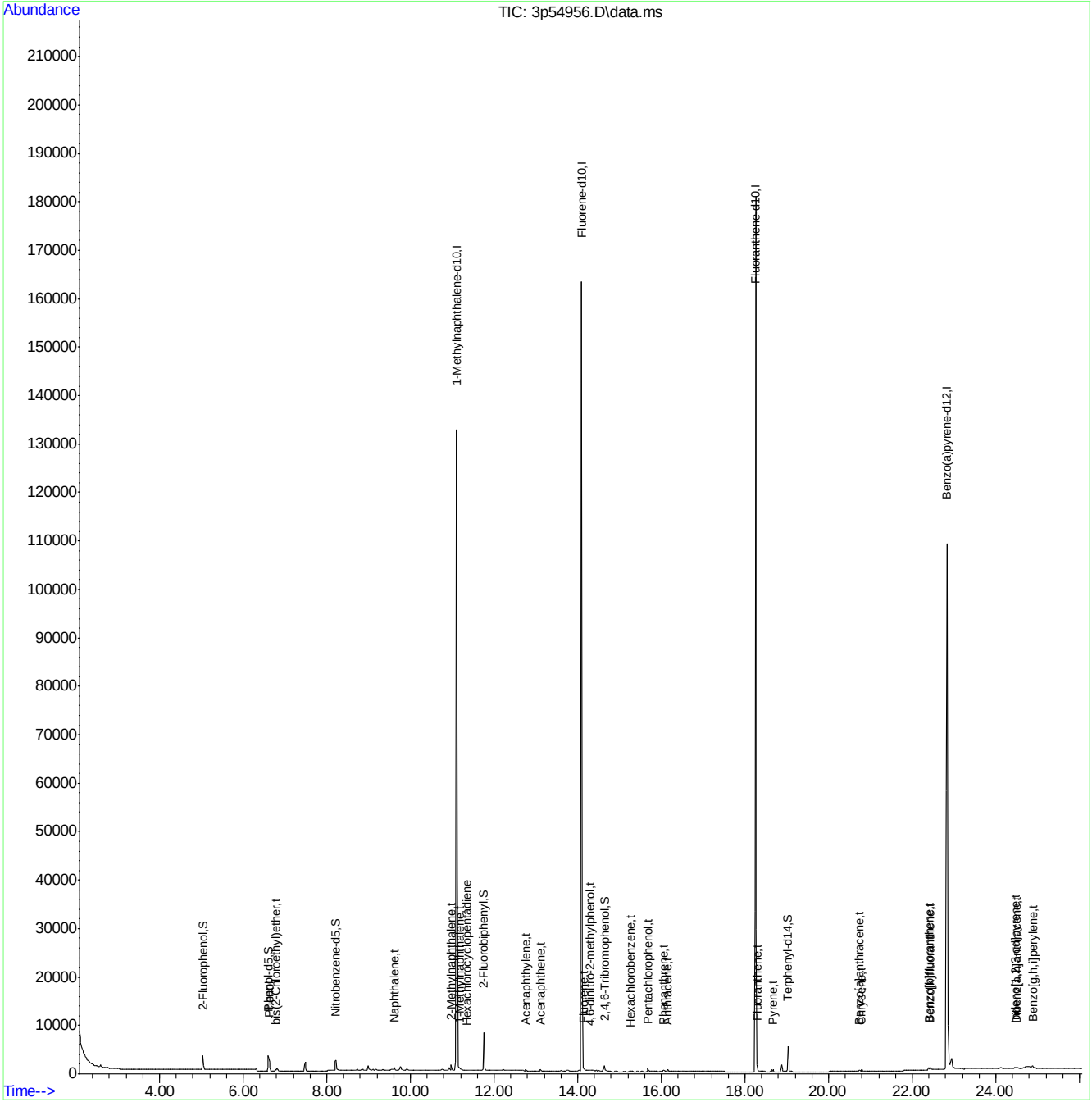
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54956.D
Acq On : 6 Jul 2016 11:26 am
Operator : hankc
Sample : ic2503-0.01
Misc : op95179a,e3p2503
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 17:26:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:25:20 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54957.D
Acq On : 6 Jul 2016 11:57 am
Operator : hankc
Sample : ic2503-0.02
Misc : op95179a,e3p2503
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 17:27:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:26:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	105023	4.00	ppm	# 0.00
14) Fluorene-d10	14.093	176	158303	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	232382	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	188456	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	7602	0.49	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.98%	
4) Phenol-d5	6.602	99	10549	0.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.06%	
7) Nitrobenzene-d5	8.205	82	7872	0.50	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.00%	
15) 2-Fluorobiphenyl	11.756	172	17810	0.47	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.94%	
20) 2,4,6-Tribromophenol	14.639	330	1705	0.31	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.62%	
28) Terphenyl-d14	19.028	244	13540	0.53	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.06%	
Target Compounds						Qvalue
5) Phenol	6.627	94	2821	0.16	ppm	# 71
6) bis(2-Chloroethyl)ether	6.772	93	458	0.02	ppm	92
8) Nitrobenzene	8.243	77	497	0.03	ppm	69
9) Naphthalene	9.617	128	1533	0.02	ppm	96
10) Hexachlorobutadiene	9.919	225	310	0.03	ppm	85
11) 2-Methylnaphthalene	10.977	141	1456	0.05	ppm	93
12) 1-Methylnaphthalene	11.161	141	588	0.02	ppm	93
13) Hexachlorocyclopentadiene	11.346	237	123	0.02	ppm	96
16) Acenaphthylene	12.751	152	1107	0.02	ppm	97
17) Acenaphthene	13.107	153	741	0.02	ppm	82
18) 4,6-dinitro-2-methylph...	14.300	198	215	0.09	ppm	76
19) Fluorene	14.149	166	635	0.02	ppm	96
22) Hexachlorobenzene	15.257	284	279	0.02	ppm	72
23) Pentachlorophenol	15.674	266	757	0.13	ppm	96
24) Phenanthrene	16.045	178	1192	0.02	ppm	95
25) Anthracene	16.154	178	1040	0.02	ppm	93
26) Fluoranthene	18.287	202	1096	0.02	ppm	98
27) Pyrene	18.673	202	1039	0.02	ppm	96
29) Benzo[a]anthracene	20.744	228	877	0.02	ppm	95
30) Chrysene	20.790	228	998	0.02	ppm	98
32) Benzo[b]fluoranthene	22.398	252	1188	0.02	ppm	97
33) Benzo[k]fluoranthene	22.436	252	1064	0.02	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	1060	0.02	ppm	91
36) Dibenz[a,h]anthracene	24.486	278	834	0.02	ppm	81
37) Benzo[g,h,i]perylene	24.881	276	1088	0.02	ppm	89

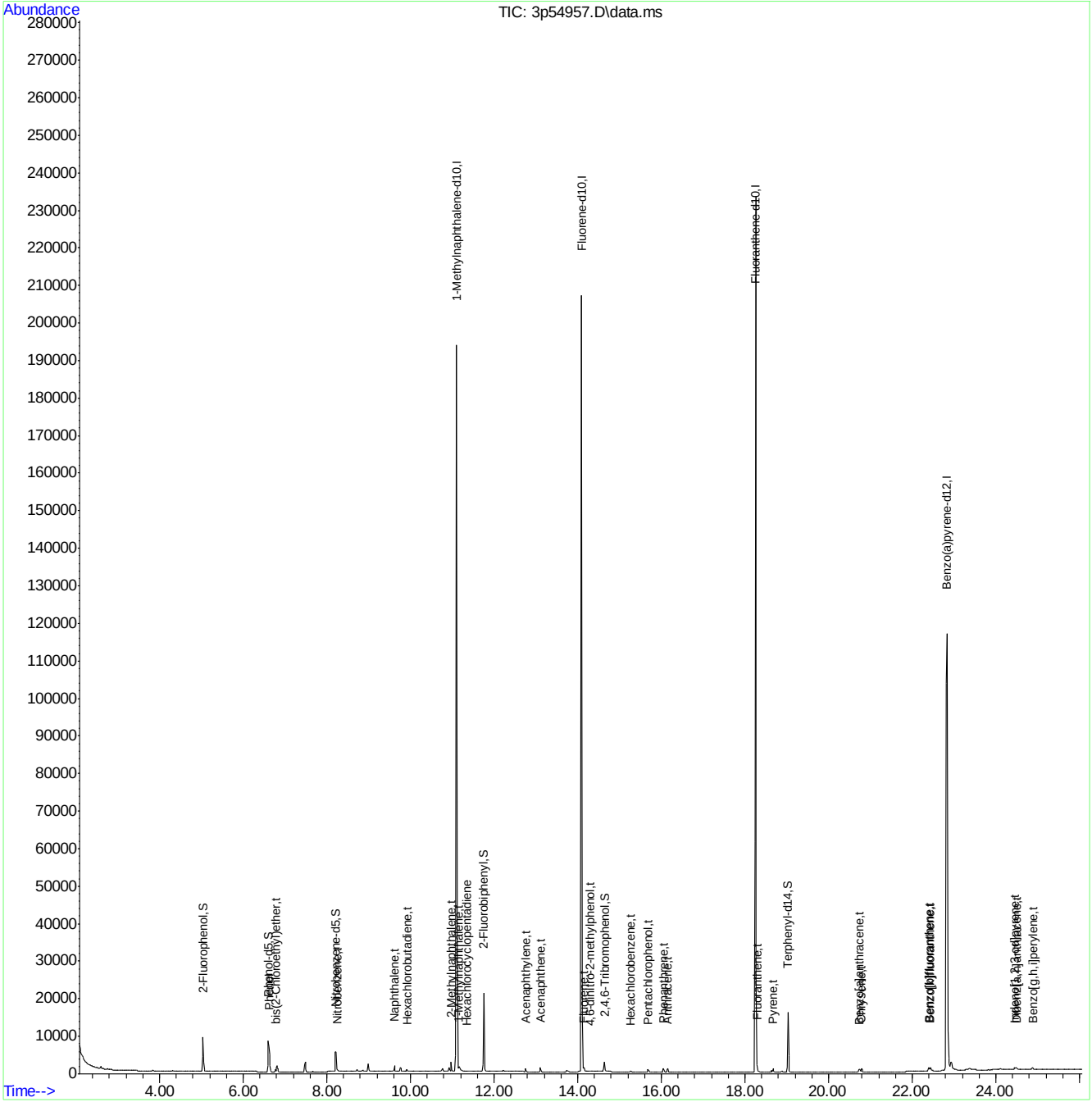
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54957.D
Acq On : 6 Jul 2016 11:57 am
Operator : hankc
Sample : ic2503-0.02
Misc : op95179a,e3p2503
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 06 17:27:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:26:47 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:08:12 2016 Page: 2

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54958.D
Acq On : 6 Jul 2016 12:28 pm
Operator : hankc
Sample : ic2503-0.05
Misc : op95179a,e3p2503
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 17:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:33:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	95340	4.00	ppm	# 0.00
14) Fluorene-d10	14.093	176	145255	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	211286	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	168543	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.039	112	17235	1.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.24%	
4) Phenol-d5	6.603	99	23981	1.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.32%	
7) Nitrobenzene-d5	8.205	82	17781	1.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.30%	
15) 2-Fluorobiphenyl	11.756	172	39594	1.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.22%	
20) 2,4,6-Tribromophenol	14.639	330	4068	0.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.78%	
28) Terphenyl-d14	19.029	244	32347	1.23	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.46%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.752	88	702	0.07	ppm	70
5) Phenol	6.627	94	6117	0.20	ppm #	68
6) bis(2-Chloroethyl)ether	6.772	93	956	0.06	ppm	93
8) Nitrobenzene	8.243	77	1196	0.07	ppm	74
9) Naphthalene	9.618	128	3398	0.05	ppm	96
10) Hexachlorobutadiene	9.919	225	611	0.06	ppm	87
11) 2-Methylnaphthalene	10.977	141	2171	0.06	ppm	92
12) 1-Methylnaphthalene	11.162	141	1318	0.05	ppm	95
13) Hexachlorocyclopentadiene	11.346	237	348	0.19	ppm	94
16) Acenaphthylene	12.751	152	2693	0.05	ppm	97
17) Acenaphthene	13.107	153	1712	0.05	ppm	83
18) 4,6-dinitro-2-methylph...	14.300	198	328	0.69	ppm	83
19) Fluorene	14.149	166	1449	0.05	ppm	93
22) Hexachlorobenzene	15.257	284	620	0.05	ppm	74
23) Pentachlorophenol	15.674	266	997	0.45	ppm	99
24) Phenanthrene	16.046	178	2689	0.05	ppm	95
25) Anthracene	16.154	178	2314	0.06	ppm	92
26) Fluoranthene	18.287	202	2061	0.05	ppm	98
27) Pyrene	18.673	202	2349	0.05	ppm	93
29) Benzo[a]anthracene	20.728	228	1975	0.05	ppm	91
30) Chrysene	20.790	228	2524	0.06	ppm	99
32) Benzo[b]fluoranthene	22.398	252	2577	0.05	ppm	97
33) Benzo[k]fluoranthene	22.436	252	2325	0.05	ppm	95
34) Benzo[a]pyrene	22.850	252	2489	0.06	ppm	94
35) Indeno[1,2,3-cd]pyrene	24.448	276	2281	0.05	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	1819	0.05	ppm	81
37) Benzo[g,h,i]perylene	24.881	276	2387	0.05	ppm	90

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54958.D
Acq On : 6 Jul 2016 12:28 pm
Operator : hankc
Sample : ic2503-0.05
Misc : op95179a,e3p2503
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 17:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:33:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.16

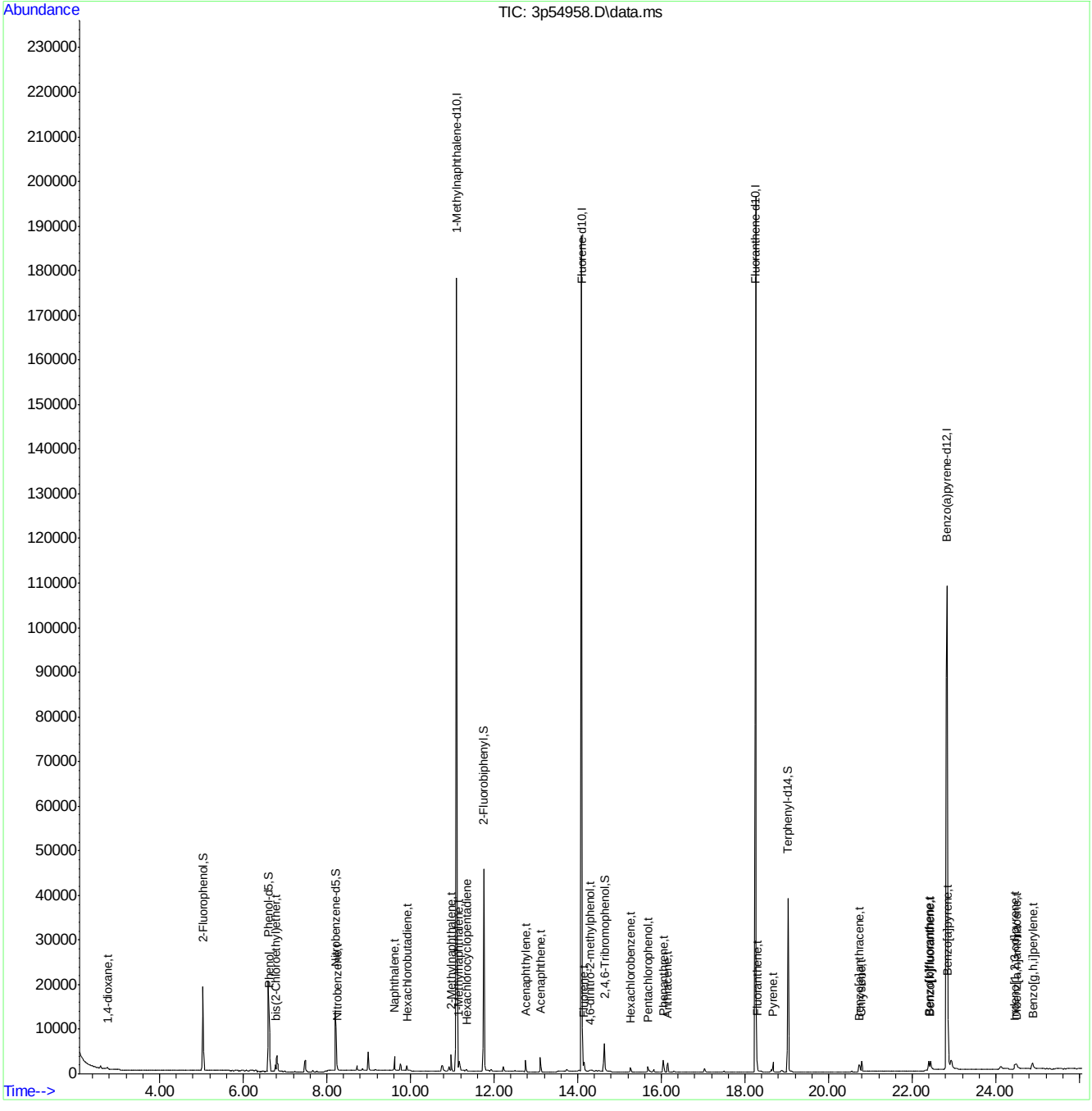
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54958.D
Acq On : 6 Jul 2016 12:28 pm
Operator : hankc
Sample : ic2503-0.05
Misc : op95179a,e3p2503
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 06 17:33:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:33:16 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54959.D
Acq On : 6 Jul 2016 12:59 pm
Operator : hankc
Sample : ic2503-0.1
Misc : op95179a,e3p2503
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 17:28:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:27:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	80575	4.00	ppm	# 0.00
14) Fluorene-d10	14.093	176	123488	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	180618	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	137267	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	28500	2.14	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.28%	
4) Phenol-d5	6.602	99	39059	2.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.40%	
7) Nitrobenzene-d5	8.205	82	28853	2.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.24%	
15) 2-Fluorobiphenyl	11.756	172	65085	2.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.08%	
20) 2,4,6-Tribromophenol	14.639	330	7100	1.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.36%	
28) Terphenyl-d14	19.028	244	52972	2.67	ppm	0.00
Spiked Amount 50.000			Recovery	=	5.34%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.751	88	847	0.10	ppm	67
5) Phenol	6.627	94	9704	0.52	ppm #	67
6) bis(2-Chloroethyl)ether	6.772	93	1520	0.10	ppm	92
8) Nitrobenzene	8.243	77	1684	0.10	ppm	71
9) Naphthalene	9.617	128	5473	0.10	ppm	97
10) Hexachlorobutadiene	9.919	225	941	0.10	ppm	85
11) 2-Methylnaphthalene	10.977	141	2843	0.09	ppm	92
12) 1-Methylnaphthalene	11.161	141	2204	0.10	ppm	92
13) Hexachlorocyclopentadiene	11.346	237	681	0.13	ppm	96
16) Acenaphthylene	12.751	152	4073	0.09	ppm	97
17) Acenaphthene	13.107	153	2759	0.10	ppm	81
18) 4,6-dinitro-2-methylph...	14.300	198	425	0.22	ppm	88
19) Fluorene	14.149	166	2457	0.10	ppm	94
22) Hexachlorobenzene	15.257	284	1013	0.10	ppm	73
23) Pentachlorophenol	15.674	266	1274	0.33	ppm	99
24) Phenanthrene	16.045	178	4363	0.10	ppm	95
25) Anthracene	16.154	178	3806	0.11	ppm	92
26) Fluoranthene	18.287	202	3534	0.10	ppm	97
27) Pyrene	18.673	202	3868	0.10	ppm	94
29) Benzo[a]anthracene	20.728	228	3076	0.09	ppm	90
30) Chrysene	20.790	228	4050	0.10	ppm	100
32) Benzo[b]fluoranthene	22.398	252	4191	0.10	ppm	97
33) Benzo[k]fluoranthene	22.436	252	3842	0.10	ppm	96
34) Benzo[a]pyrene	22.849	252	3699	0.10	ppm	94
35) Indeno[1,2,3-cd]pyrene	24.448	276	3512	0.08	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	2784	0.08	ppm	83
37) Benzo[g,h,i]perylene	24.881	276	3878	0.10	ppm	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54959.D
Acq On : 6 Jul 2016 12:59 pm
Operator : hankc
Sample : ic2503-0.1
Misc : op95179a,e3p2503
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 17:28:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:27:37 2016
Response via : Initial Calibration

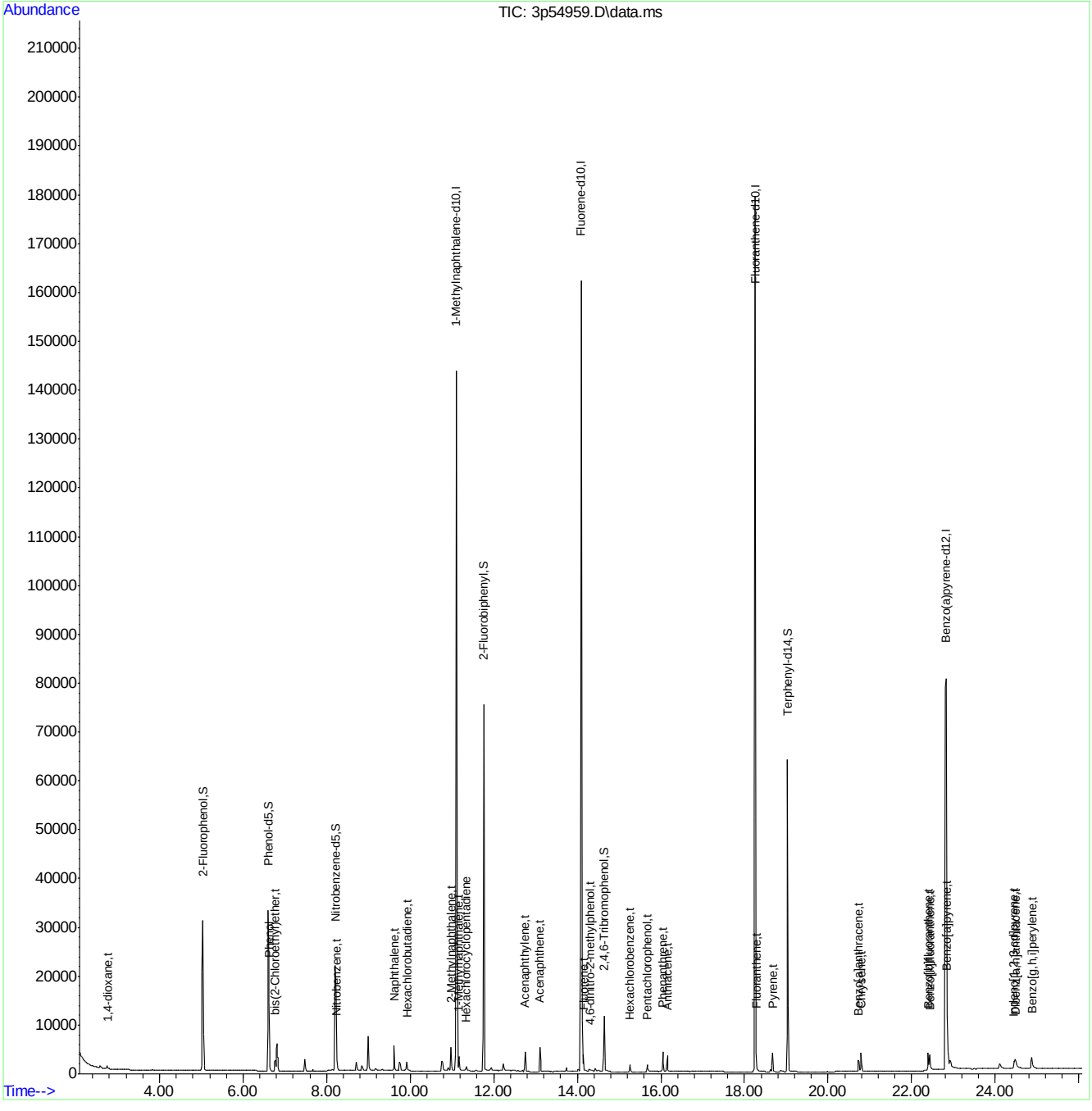
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54959.D
Acq On : 6 Jul 2016 12:59 pm
Operator : hankc
Sample : ic2503-0.1
Misc : op95179a,e3p2503
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 06 17:28:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:27:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54960.D
Acq On : 6 Jul 2016 1:30 pm
Operator : hankc
Sample : ic2503-0.2
Misc : op95179a,e3p2503
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 17:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:28:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	66048	4.00	ppm	# 0.00
14) Fluorene-d10	14.093	176	99585	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	147162	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	109620	4.00	ppm	0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	50614	4.54	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.08%	
4) Phenol-d5	6.602	99	67367	4.48	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.96%	
7) Nitrobenzene-d5	8.205	82	50923	4.48	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.96%	
15) 2-Fluorobiphenyl	11.756	172	113318	4.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.78%	
20) 2,4,6-Tribromophenol	14.639	330	13649	4.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.02%	
28) Terphenyl-d14	19.029	244	90856	4.82	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.64%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	1458	0.21	ppm	# 1
5) Phenol	6.627	94	16041	1.04	ppm	# 65
6) bis(2-Chloroethyl)ether	6.772	93	2522	0.20	ppm	90
8) Nitrobenzene	8.243	77	3042	0.22	ppm	75
9) Naphthalene	9.617	128	9348	0.21	ppm	96
10) Hexachlorobutadiene	9.919	225	1571	0.20	ppm	86
11) 2-Methylnaphthalene	10.977	141	5404	0.22	ppm	94
12) 1-Methylnaphthalene	11.161	141	4002	0.22	ppm	95
13) Hexachlorocyclopentadiene	11.346	237	1351	0.38	ppm	96
16) Acenaphthylene	12.751	152	7514	0.22	ppm	97
17) Acenaphthene	13.107	153	4798	0.21	ppm	83
18) 4,6-dinitro-2-methylph...	14.300	198	1203	1.09	ppm	83
19) Fluorene	14.149	166	4529	0.22	ppm	93
22) Hexachlorobenzene	15.257	284	1819	0.22	ppm	73
23) Pentachlorophenol	15.674	266	2921	1.04	ppm	95
24) Phenanthrene	16.045	178	7748	0.22	ppm	95
25) Anthracene	16.154	178	6641	0.22	ppm	92
26) Fluoranthene	18.287	202	6405	0.22	ppm	96
27) Pyrene	18.673	202	7087	0.22	ppm	95
29) Benzo[a]anthracene	20.744	228	5395	0.20	ppm	93
30) Chrysene	20.790	228	6901	0.21	ppm	99
32) Benzo[b]fluoranthene	22.398	252	6998	0.20	ppm	97
33) Benzo[k]fluoranthene	22.436	252	6625	0.21	ppm	96
34) Benzo[a]pyrene	22.850	252	6076	0.20	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	6396	0.21	ppm	92
36) Dibenz[a,h]anthracene	24.486	278	5103	0.21	ppm	83
37) Benzo[g,h,i]perylene	24.881	276	6671	0.21	ppm	89

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54960.D
Acq On : 6 Jul 2016 1:30 pm
Operator : hankc
Sample : ic2503-0.2
Misc : op95179a,e3p2503
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 17:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:28:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

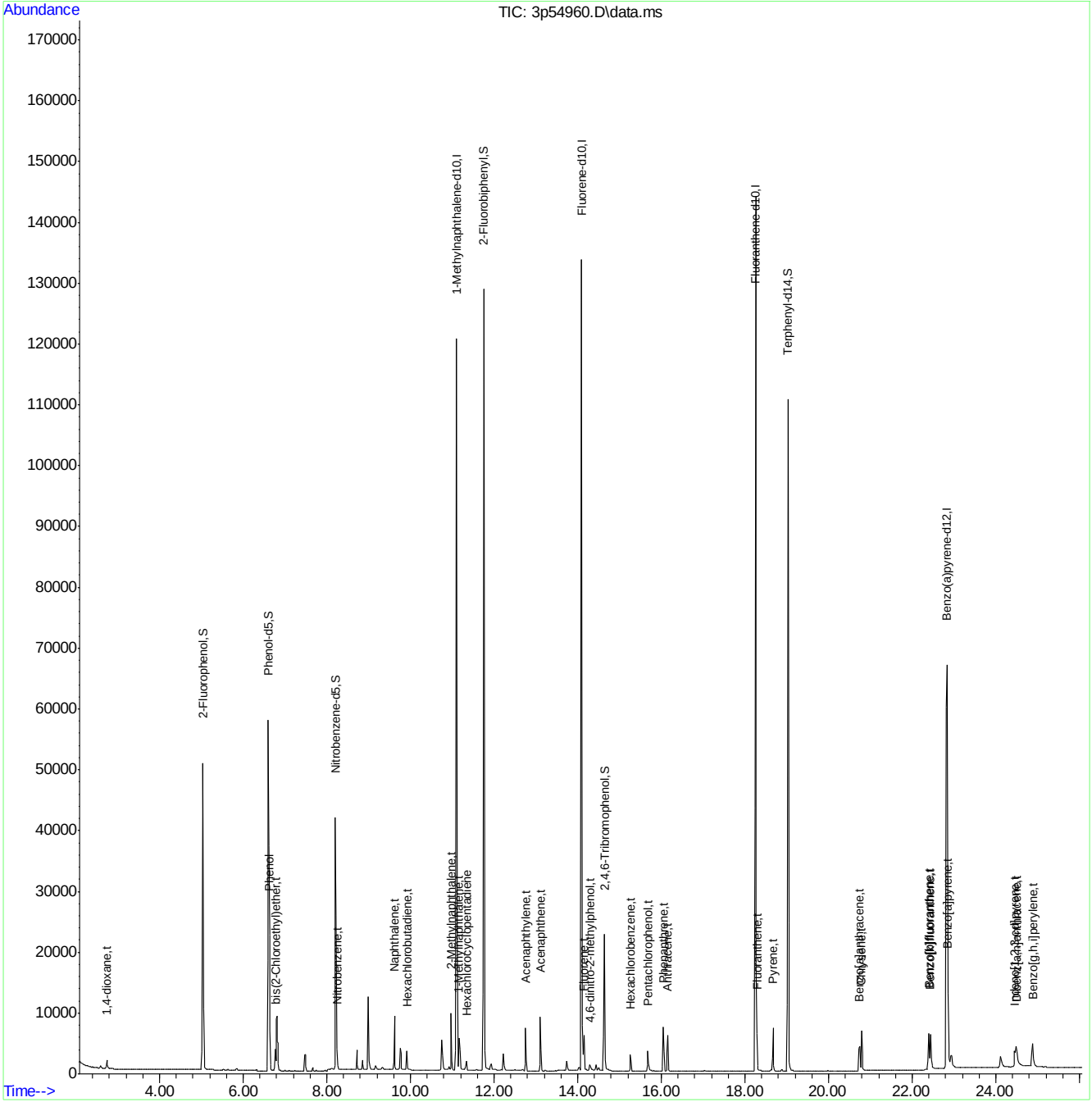
7.6.18

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54960.D
Acq On : 6 Jul 2016 1:30 pm
Operator : hankc
Sample : ic2503-0.2
Misc : op95179a,e3p2503
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 06 17:28:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:28:34 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:08:37 2016 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54961.D
Acq On : 6 Jul 2016 2:02 pm
Operator : hankc
Sample : ic2503-5
Misc : op95179a,e3p2503
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 17:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	61525	4.00	ppm	0.00
14) Fluorene-d10	14.092	176	106137	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	179159	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.831	264	120627	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	647516	60.28	ppm	0.00
Spiked Amount 50.000			Recovery = 120.56%			
4) Phenol-d5	6.627	99	895989	62.13	ppm	0.02
Spiked Amount 50.000			Recovery = 124.26%			
7) Nitrobenzene-d5	8.224	82	800055	73.32	ppm	0.02
Spiked Amount 50.000			Recovery = 146.64%			
15) 2-Fluorobiphenyl	11.756	172	1343229	48.07	ppm	0.00
Spiked Amount 50.000			Recovery = 96.14%			
20) 2,4,6-Tribromophenol	14.639	330	249435	68.65	ppm	0.00
Spiked Amount 50.000			Recovery = 137.30%			
28) Terphenyl-d14	19.044	244	1032408	42.09	ppm	0.02
Spiked Amount 50.000			Recovery = 84.18%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	31180	4.74	ppm	# 49
5) Phenol	6.639	94	210004	14.51	ppm	# 79
6) bis(2-Chloroethyl)ether	6.772	93	46583	3.92	ppm	82
8) Nitrobenzene	8.243	77	41778	3.14	ppm	# 55
9) Naphthalene	9.617	128	182708	4.30	ppm	94
10) Hexachlorobutadiene	9.919	225	29671	4.00	ppm	86
11) 2-Methylnaphthalene	10.977	141	94727	4.07	ppm	97
12) 1-Methylnaphthalene	11.161	141	83239	4.78	ppm	96
13) Hexachlorocyclopentadiene	11.346	237	54397	16.63	ppm	96
16) Acenaphthylene	12.751	152	183790	4.92	ppm	93
17) Acenaphthene	13.107	153	101699	4.12	ppm	88
18) 4,6-dinitro-2-methylph...	14.300	198	87912	72.42	ppm	84
19) Fluorene	14.149	166	114988	5.18	ppm	90
22) Hexachlorobenzene	15.257	284	41582	4.05	ppm	72
23) Pentachlorophenol	15.674	266	118085	34.14	ppm	82
24) Phenanthrene	16.045	178	170430	3.90	ppm	97
25) Anthracene	16.154	178	152857	4.05	ppm	90
26) Fluoranthene	18.287	202	171110	4.72	ppm	94
27) Pyrene	18.673	202	190448	4.71	ppm	91
29) Benzo[a]anthracene	20.743	228	174583	5.31	ppm	89
30) Chrysene	20.790	228	157584	3.90	ppm	97
32) Benzo[b]fluoranthene	22.398	252	215963	5.68	ppm	92
33) Benzo[k]fluoranthene	22.436	252	159024	4.57	ppm	97
34) Benzo[a]pyrene	22.849	252	153670	4.67	ppm	96
35) Indeno[1,2,3-cd]pyrene	24.448	276	183558	5.37	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	131921	4.81	ppm	54
37) Benzo[g,h,i]perylene	24.881	276	166794	4.76	ppm	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54961.D
Acq On : 6 Jul 2016 2:02 pm
Operator : hankc
Sample : ic2503-5
Misc : op95179a,e3p2503
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 17:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

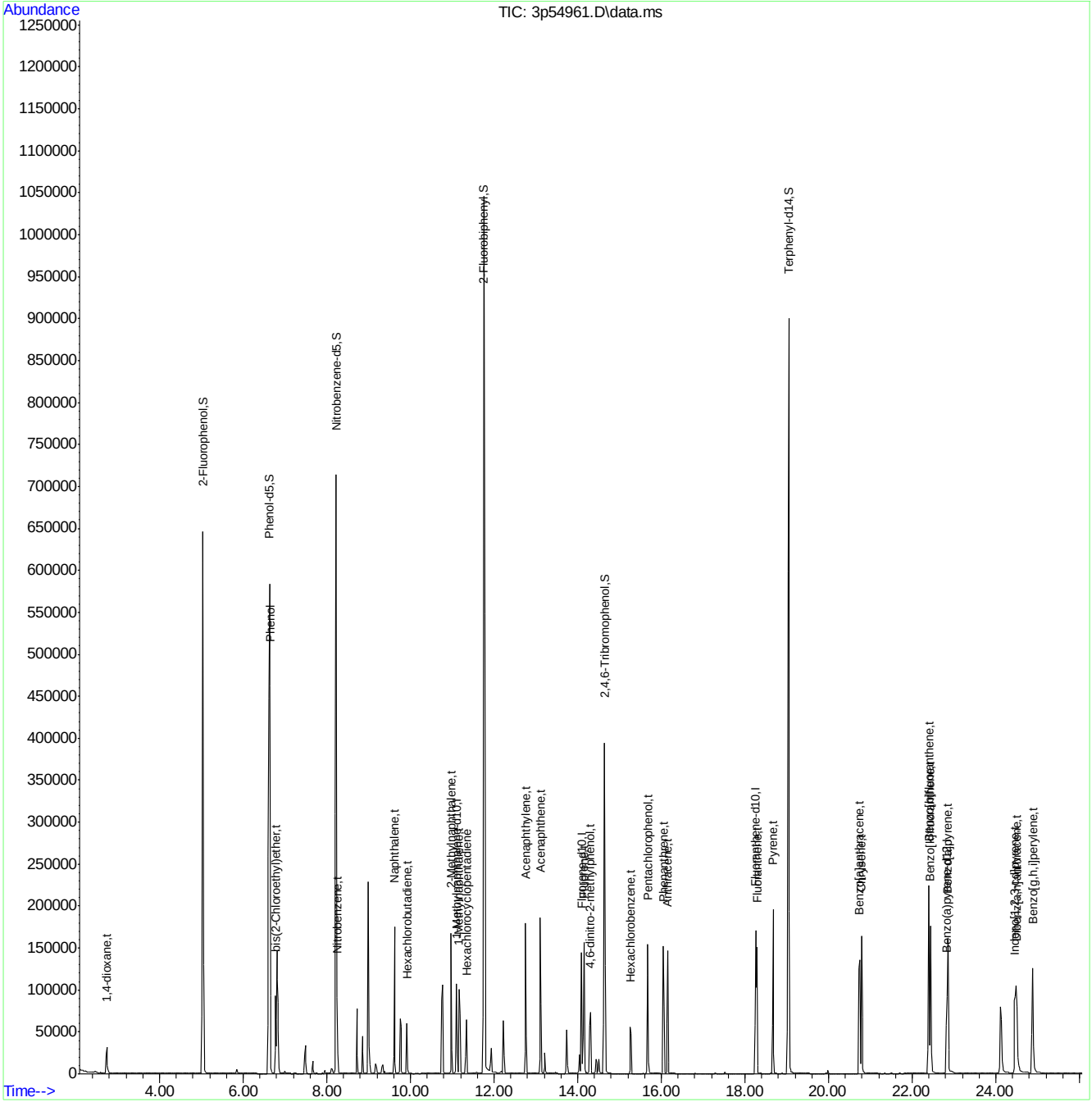
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54961.D
Acq On : 6 Jul 2016 2:02 pm
Operator : hankc
Sample : ic2503-5
Misc : op95179a,e3p2503
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 06 17:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:04 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:08:45 2016 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54962.D
Acq On : 6 Jul 2016 2:33 pm
Operator : hankc
Sample : ic2503-2.5
Misc : op95179a,e3p2503
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 06 17:29:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	58818	4.00	ppm	# 0.00
14) Fluorene-d10	14.092	176	97541	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	156559	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	110080	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	376140	39.79	ppm	0.00
Spiked Amount 50.000			Recovery = 79.58%			
4) Phenol-d5	6.614	99	493254	38.71	ppm	-0.01
Spiked Amount 50.000			Recovery = 77.42%			
7) Nitrobenzene-d5	8.205	82	412360	41.76	ppm	-0.02
Spiked Amount 50.000			Recovery = 83.52%			
15) 2-Fluorobiphenyl	11.756	172	773441	30.12	ppm	0.00
Spiked Amount 50.000			Recovery = 60.24%			
20) 2,4,6-Tribromophenol	14.639	330	152849	51.12	ppm	0.00
Spiked Amount 50.000			Recovery = 102.24%			
28) Terphenyl-d14	19.028	244	672834	36.70	ppm	-0.02
Spiked Amount 50.000			Recovery = 73.40%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	14051	2.26	ppm	# 49
5) Phenol	6.627	94	109670	8.52	ppm	# 76
6) bis(2-Chloroethyl)ether	6.772	93	21874	1.99	ppm	89
8) Nitrobenzene	8.243	77	21431	1.80	ppm	75
9) Naphthalene	9.617	128	89873	2.26	ppm	94
10) Hexachlorobutadiene	9.919	225	14342	2.09	ppm	87
11) 2-Methylnaphthalene	10.977	141	48722	2.27	ppm	98
12) 1-Methylnaphthalene	11.161	141	40943	2.47	ppm	98
13) Hexachlorocyclopentadiene	11.346	237	22911	6.28	ppm	95
16) Acenaphthylene	12.751	152	86595	2.53	ppm	94
17) Acenaphthene	13.107	153	49818	2.25	ppm	86
18) 4,6-dinitro-2-methylph...	14.300	198	29862	18.16	ppm	80
19) Fluorene	14.149	166	52810	2.58	ppm	91
22) Hexachlorobenzene	15.257	284	19891	2.28	ppm	74
23) Pentachlorophenol	15.659	266	51486	15.87	ppm	86
24) Phenanthrene	16.045	178	83690	2.29	ppm	98
25) Anthracene	16.154	178	71928	2.29	ppm	90
26) Fluoranthene	18.287	202	80300	2.56	ppm	95
27) Pyrene	18.673	202	90291	2.59	ppm	92
29) Benzo[a]anthracene	20.728	228	76512	2.63	ppm	91
30) Chrysene	20.790	228	76758	2.27	ppm	98
32) Benzo[b]fluoranthene	22.398	252	97027	2.70	ppm	93
33) Benzo[k]fluoranthene	22.436	252	74773	2.41	ppm	96
34) Benzo[a]pyrene	22.849	252	68723	2.29	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	82881	2.61	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	57958	2.34	ppm	52
37) Benzo[g,h,i]perylene	24.881	276	76272	2.42	ppm	89

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54962.D
Acq On : 6 Jul 2016 2:33 pm
Operator : hankc
Sample : ic2503-2.5
Misc : op95179a,e3p2503
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 06 17:29:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.20

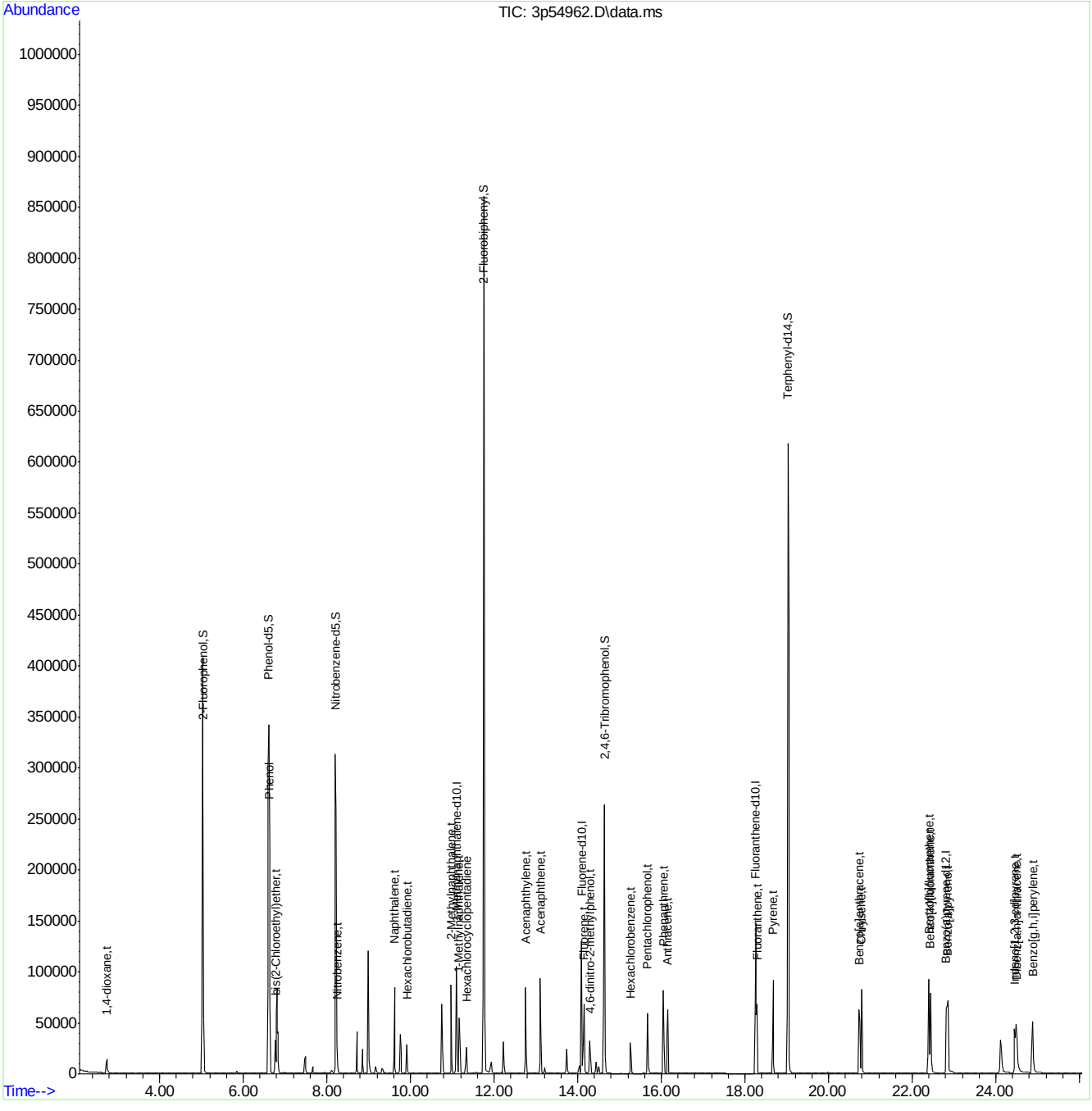
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54962.D
Acq On : 6 Jul 2016 2:33 pm
Operator : hankc
Sample : ic2503-2.5
Misc : op95179a,e3p2503
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 06 17:29:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:28 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:08:54 2016 Page: 3

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/11/16 10:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	81223	4.00	ppm	# 0.00
14) Fluorene-d10	14.092	176	115674	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	175349	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	126215	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	5.038	112	115904	9.19	ppm	0.00
Spiked Amount 50.000			Recovery = 18.38%			
4) Phenol-d5	6.602	99	155488	9.18	ppm	-0.01
Spiked Amount 50.000			Recovery = 18.36%			
7) Nitrobenzene-d5	8.205	82	128683	9.70	ppm	0.00
Spiked Amount 50.000			Recovery = 19.40%			
15) 2-Fluorobiphenyl	11.756	172	266716	9.29	ppm	0.00
Spiked Amount 50.000			Recovery = 18.58%			
20) 2,4,6-Tribromophenol	14.639	330	38410	10.77	ppm	0.00
Spiked Amount 50.000			Recovery = 21.54%			
28) Terphenyl-d14	19.028	244	221305	11.38	ppm	0.00
Spiked Amount 50.000			Recovery = 22.76%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.736	88	3525	0.42	ppm	# 42
5) Phenol	6.627	94	34474	2.03	ppm	# 62
6) bis(2-Chloroethyl)ether	6.772	93	5883	0.40	ppm	86
8) Nitrobenzene	8.243	77	6653	0.42	ppm	80
9) Naphthalene	9.617	128	23203	0.43	ppm	96
10) Hexachlorobutadiene	9.919	225	3815	0.41	ppm	87
11) 2-Methylnaphthalene	10.977	141	13042	0.45	ppm	96
12) 1-Methylnaphthalene	11.161	141	10262	0.45	ppm	97
13) Hexachlorocyclopentadiene	11.346	237	4486	0.85	ppm	95
16) Acenaphthylene	12.751	152	20901	0.51	ppm	96
17) Acenaphthene	13.107	153	12707	0.49	ppm	84
18) 4,6-dinitro-2-methylph...	14.281	198	3583	1.68	ppm	# 1
19) Fluorene	14.149	166	12043	0.49	ppm	92
22) Hexachlorobenzene	15.257	284	4853	0.50	ppm	75
23) Pentachlorophenol	15.674	266	9025	2.38	ppm	88
24) Phenanthrene	16.045	178	21809	0.54	ppm	96
25) Anthracene	16.154	178	18101	0.52	ppm	91
26) Fluoranthene	18.287	202	17629	0.50	ppm	96
27) Pyrene	18.673	202	19967	0.51	ppm	94
29) Benzo[a]anthracene	20.728	228	16414	0.50	ppm	91
30) Chrysene	20.790	228	19513	0.52	ppm	98
32) Benzo[b]fluoranthene	22.398	252	20946m	0.50	ppm	
33) Benzo[k]fluoranthene	22.436	252	17265m	0.49	ppm	
34) Benzo[a]pyrene	22.849	252	14751	0.44	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.448	276	17213	0.47	ppm	93
36) Dibenz[a,h]anthracene	24.486	278	13842	0.49	ppm	82
37) Benzo[g,h,i]perylene	24.881	276	17492	0.49	ppm	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration

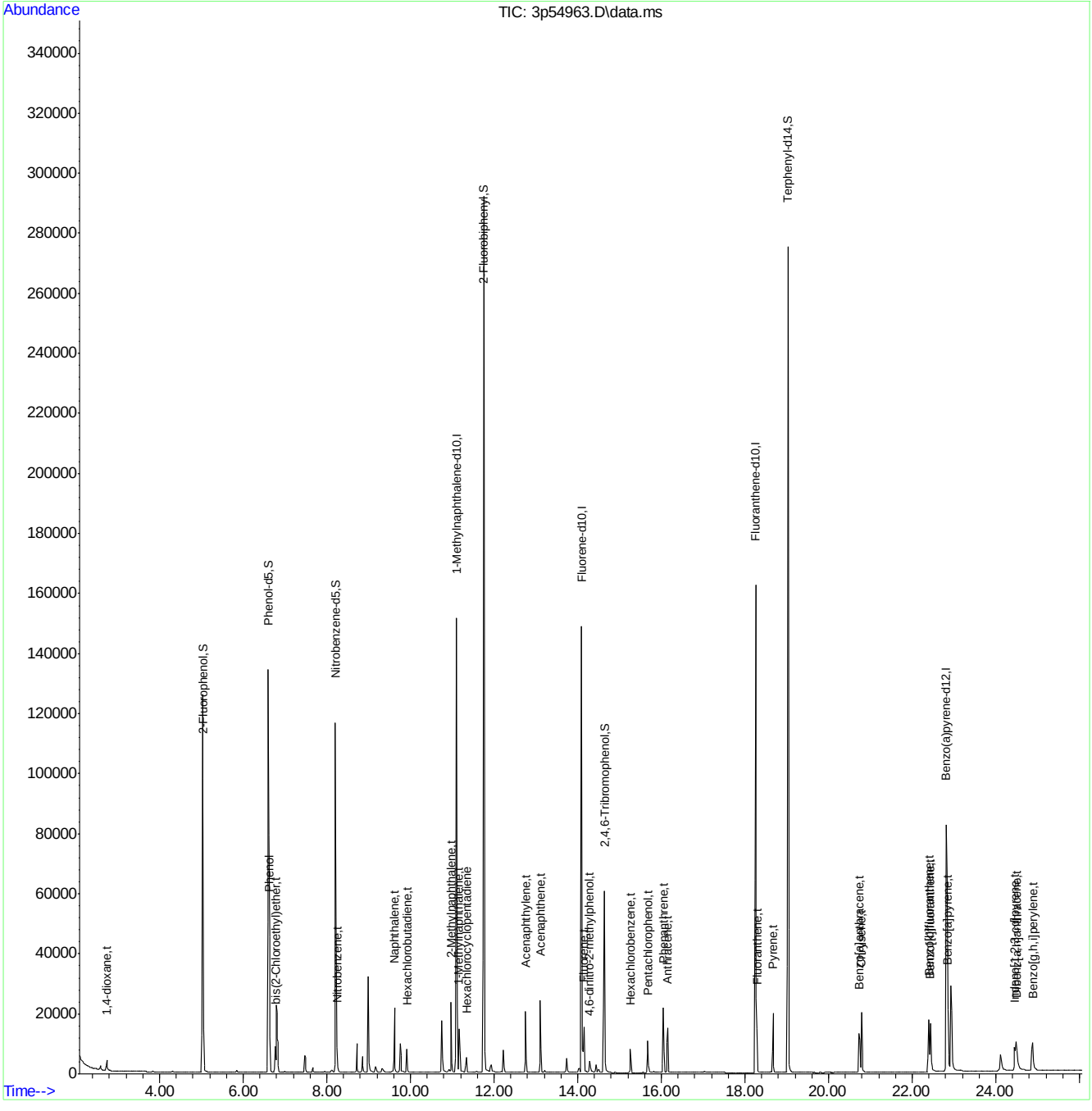
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integration Approval Summary

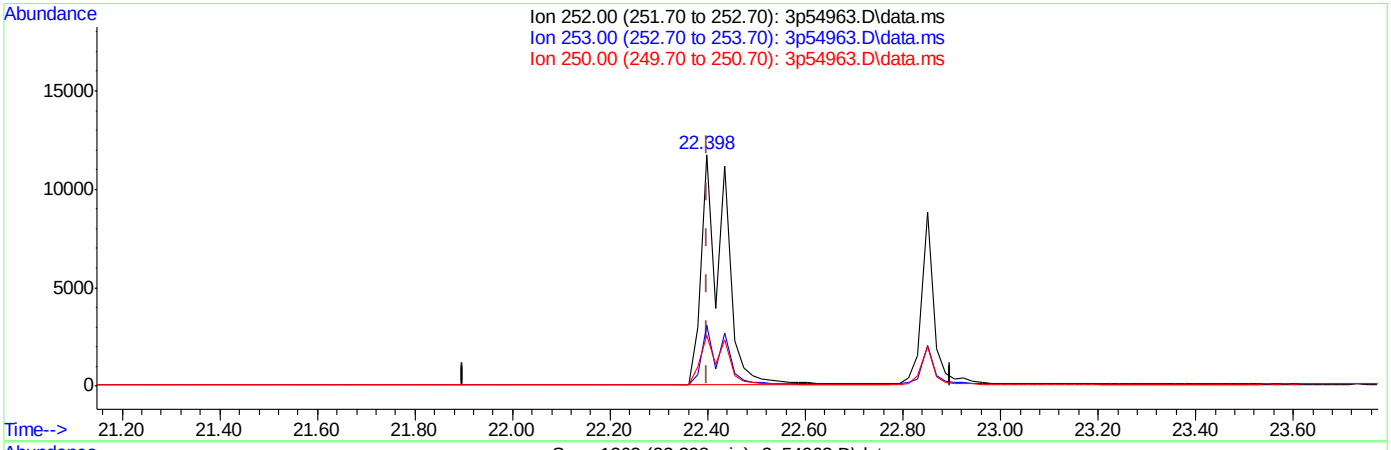
Sample Number:	E3P2503-IC2503	**Method:**	SW846 8270D BY SIM
Lab FileID:	3P54963.D	**Analyst approved:**	07/11/16 10:13 Ashley Dye
Injection Time:	07/06/16 15:04	**Supervisor approved:**	07/11/16 10:45 Nina Pandya

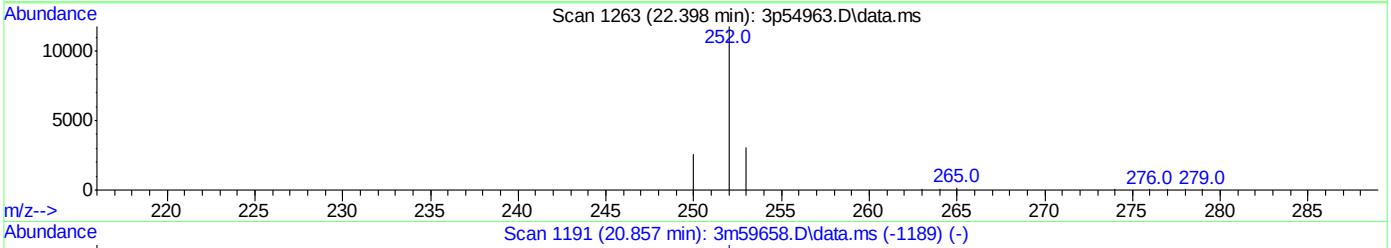
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		22.40	Overlapping peak
Benzo(k)fluoranthene	207-08-9		22.44	Overlapping peak

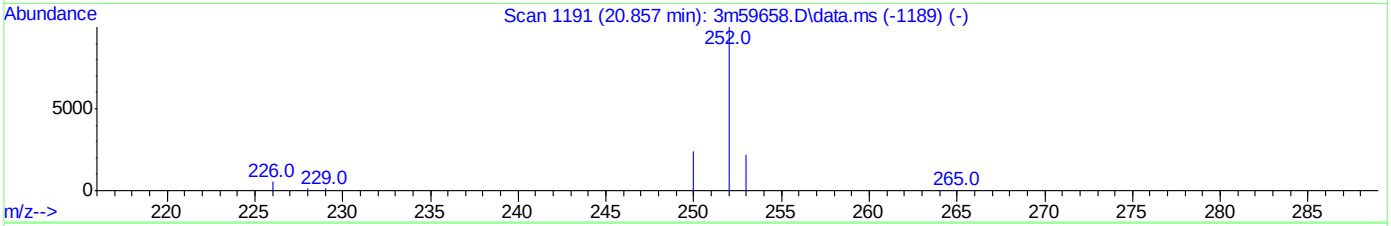
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op94978,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration







TIC: 3p54963.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (+0.000) 0.94ppm

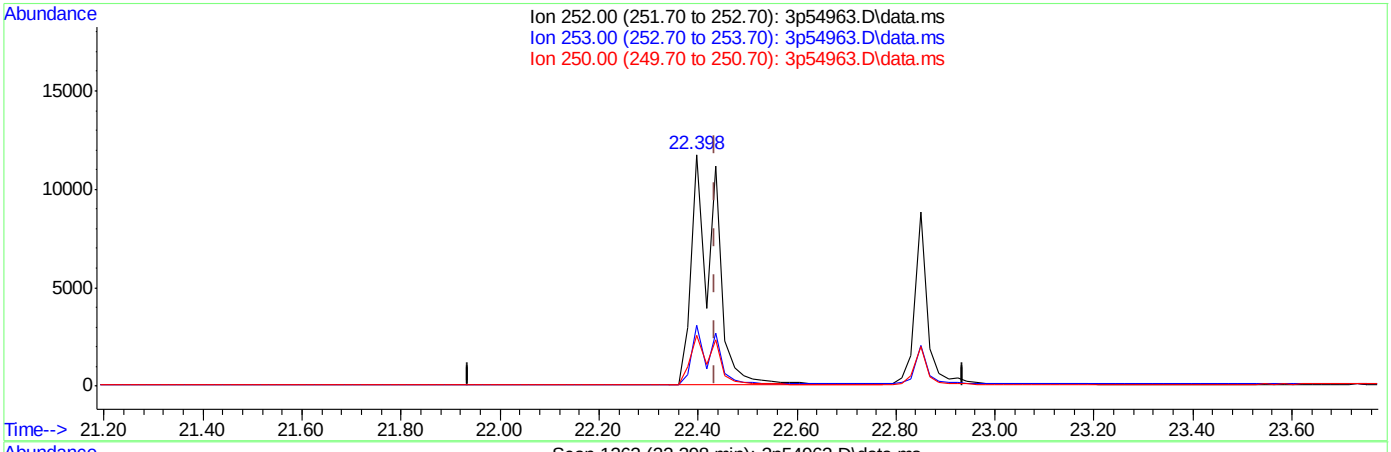
response 39195

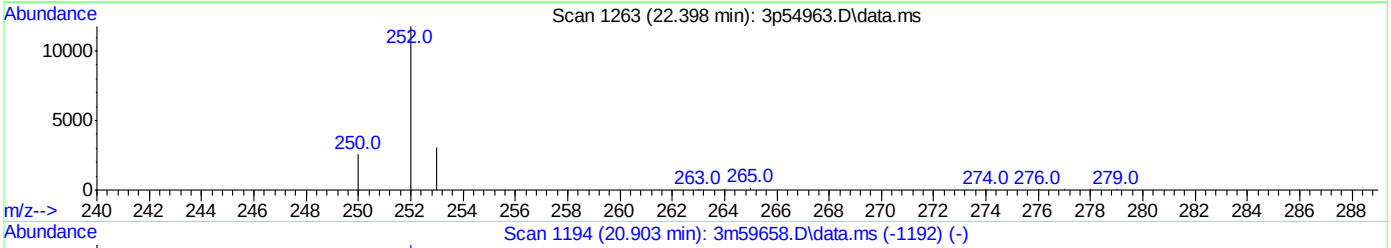
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.51
250.00	23.10	21.50
0.00	0.00	0.00

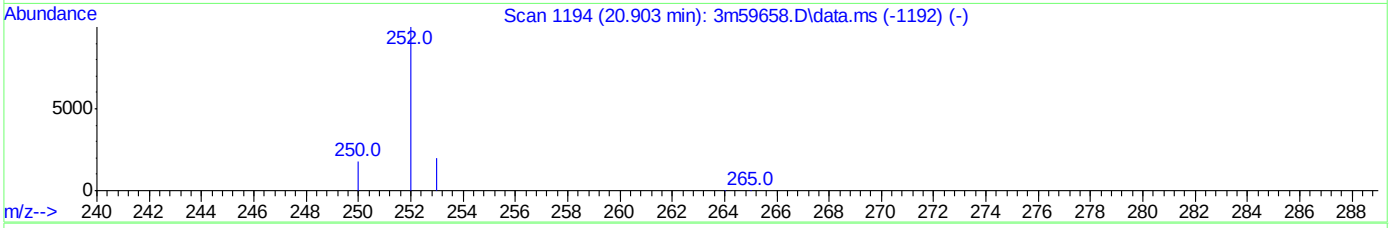
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op94978,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration







TIC: 3p54963.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.398min (-0.038) 1.11ppm

response 39195

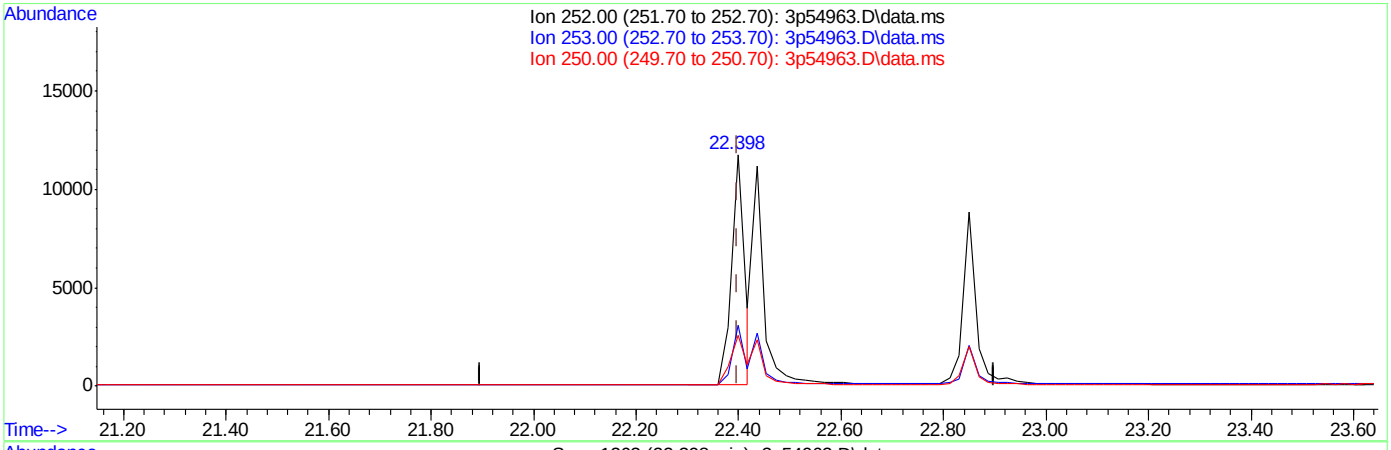
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.51
250.00	23.10	21.50
0.00	0.00	0.00

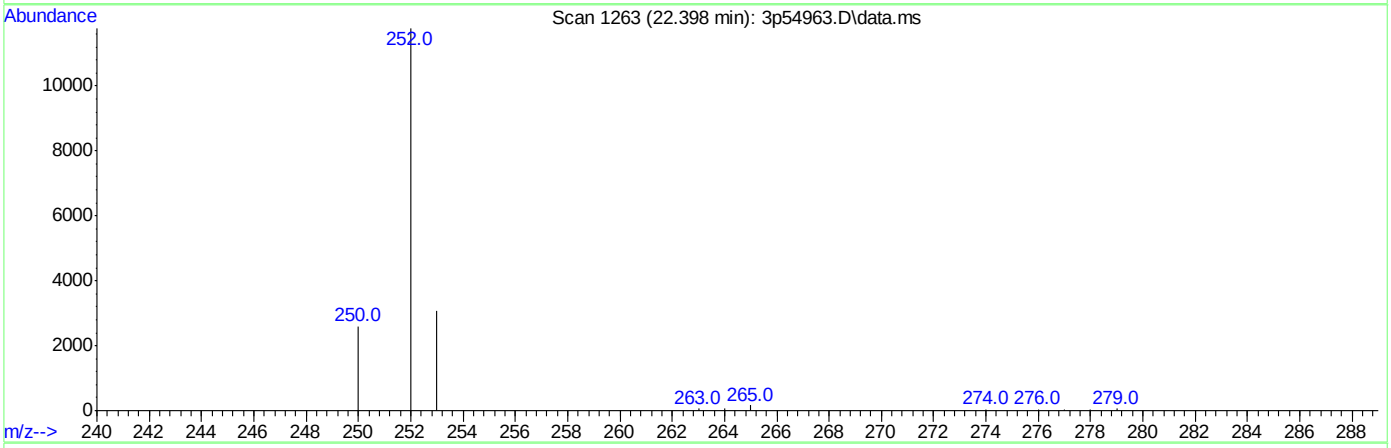
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration





TIC: 3p54963.D\data.ms

(32) Benzo[b]fluoranthene (t)

22.398min (+0.000) 0.50ppm m

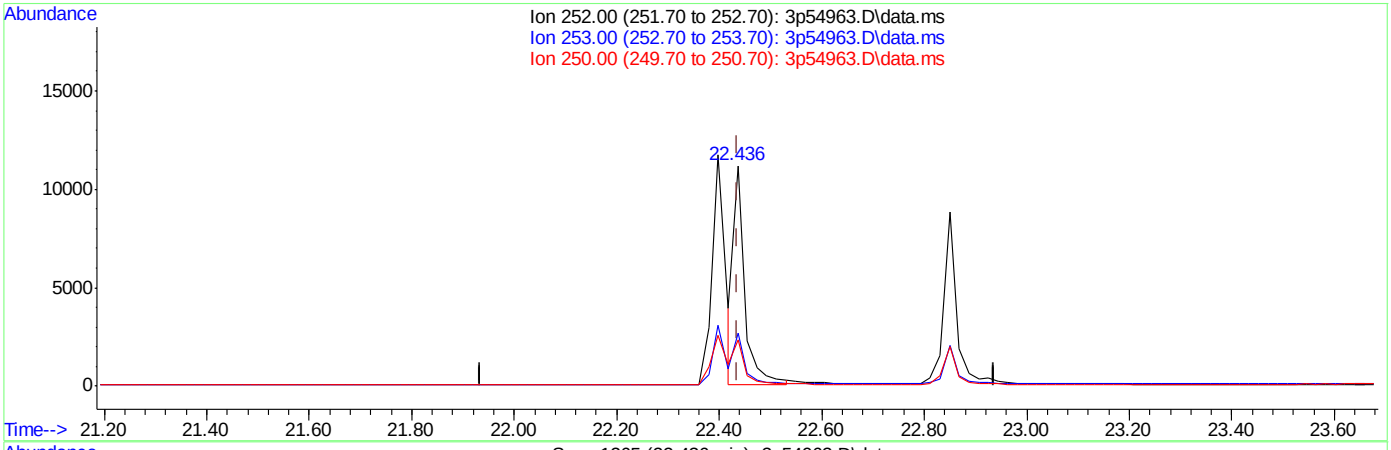
response 20946

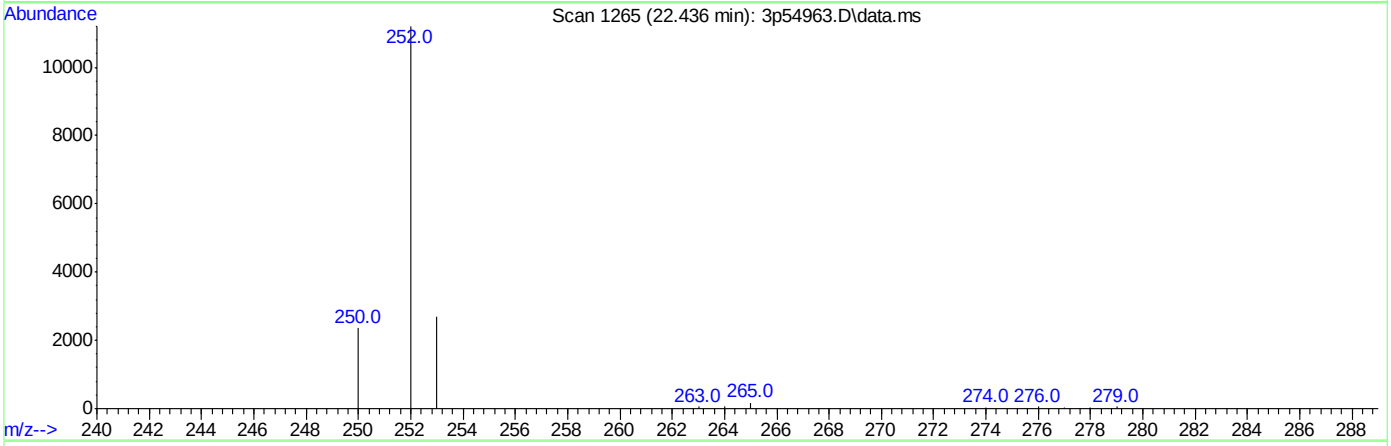
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	26.15
250.00	23.10	22.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54963.D
Acq On : 6 Jul 2016 3:04 pm
Operator : hankc
Sample : ic2503-0.5
Misc : op95179a,e3p2503
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 06 17:30:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:29:51 2016
Response via : Initial Calibration





TIC: 3p54963.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.436min (+0.000) 0.49ppm m

response 17265

Ion	Exp%	Act%
252.00	100	100
253.00	23.60	23.92
250.00	23.10	21.02
0.00	0.00	0.00

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54964.D
Acq On : 6 Jul 2016 5:37 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 09:41:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	11.100	150	52064	4.00	ppm		0.00
14) Fluorene-d10	14.093	176	72894	4.00	ppm		0.00
21) Fluoranthene-d10	18.256	212	105662	4.00	ppm	#	0.00
31) Benzo(a)pyrene-d12	22.831	264	66096	4.00	ppm		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	0.000	112	0	0.00	ppm		
Spiked Amount 50.000			Recovery	=	0.00%		
4) Phenol-d5	0.000	99	0d	0.00	ppm		
Spiked Amount 50.000			Recovery	=	0.00%		
7) Nitrobenzene-d5	0.000	82	0d	0.00	ppm		
Spiked Amount 50.000			Recovery	=	0.00%		
15) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm		
Spiked Amount 50.000			Recovery	=	0.00%		
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm		
Spiked Amount 50.000			Recovery	=	0.00%		
28) Terphenyl-d14	0.000	244	0d	0.00	ppm		
Spiked Amount 50.000			Recovery	=	0.00%		
Target Compounds							Qvalue
2) 1,4-dioxane	2.736	88	4123	0.79	ppm		58
6) bis(2-Chloroethyl)ether	6.760	93	12301	1.33	ppm	#	61
8) Nitrobenzene	8.243	77	11052	1.18	ppm		76
9) Naphthalene	9.618	128	37061	1.08	ppm		95
10) Hexachlorobutadiene	9.919	225	6032	1.04	ppm		85
11) 2-Methylnaphthalene	10.977	141	18358	1.00	ppm		92
13) Hexachlorocyclopentadiene	11.346	237	2810	0.90	ppm		99
16) Acenaphthylene	12.751	152	30926	1.20	ppm		98
17) Acenaphthene	13.107	153	19615	1.20	ppm		78
19) Fluorene	14.149	166	19330	1.26	ppm		95
22) Hexachlorobenzene	15.257	284	7137	1.22	ppm		69
24) Phenanthrene	16.046	178	30829	1.25	ppm		94
25) Anthracene	16.154	178	24958	1.19	ppm		93
26) Fluoranthene	18.287	202	27399	1.29	ppm		97
27) Pyrene	18.673	202	29057	1.22	ppm		96
29) Benzo[a]anthracene	20.744	228	26055	1.32	ppm		93
30) Chrysene	20.790	228	23433	1.04	ppm		99
32) Benzo[b]fluoranthene	22.398	252	25649	1.17	ppm		97
33) Benzo[k]fluoranthene	22.436	252	25258	1.37	ppm		96
34) Benzo[a]pyrene	22.850	252	21343	1.24	ppm		95
35) Indeno[1,2,3-cd]pyrene	24.448	276	23238	1.22	ppm		92
36) Dibenz[a,h]anthracene	24.486	278	18197	1.24	ppm		86
37) Benzo[g,h,i]perylene	24.881	276	22938	1.22	ppm		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.22

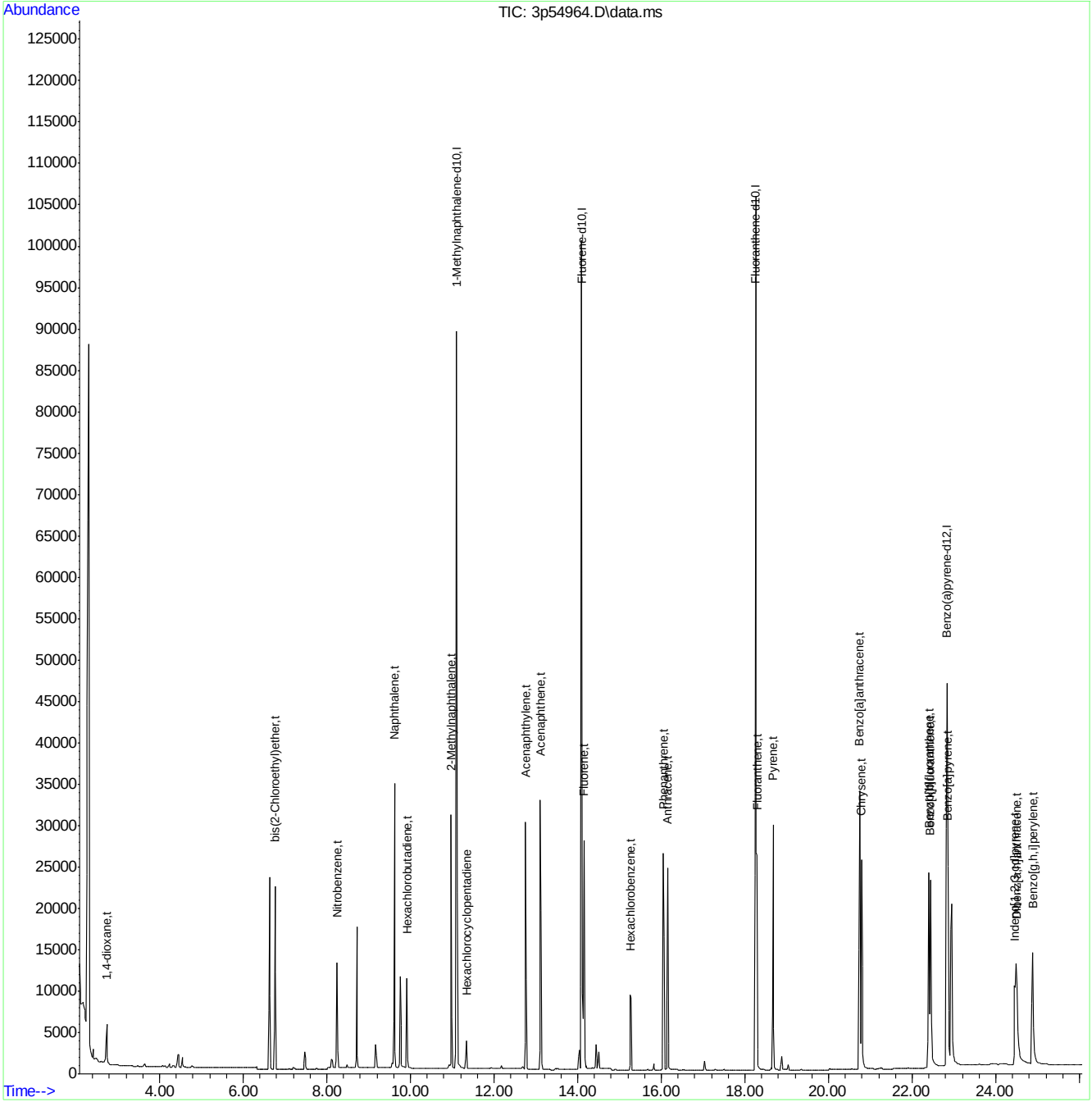
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54964.D
Acq On : 6 Jul 2016 5:37 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 07 09:41:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:09:14 2016 Page: 2

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54965.D
Acq On : 6 Jul 2016 6:08 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 07 09:19:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.100	150	53847	4.00	ppm	# 0.00
14) Fluorene-d10	14.092	176	72209	4.00	ppm	0.00
21) Fluoranthene-d10	18.256	212	102579	4.00	ppm	# 0.00
31) Benzo(a)pyrene-d12	22.812	264	71944	4.00	ppm	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
4) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
5) Phenol	6.614	94	60582	6.97	ppm	# 86
18) 4,6-dinitro-2-methylph...	14.281	198	4546	3.89	ppm	# 1
23) Pentachlorophenol	15.674	266	11230	4.41	ppm	89

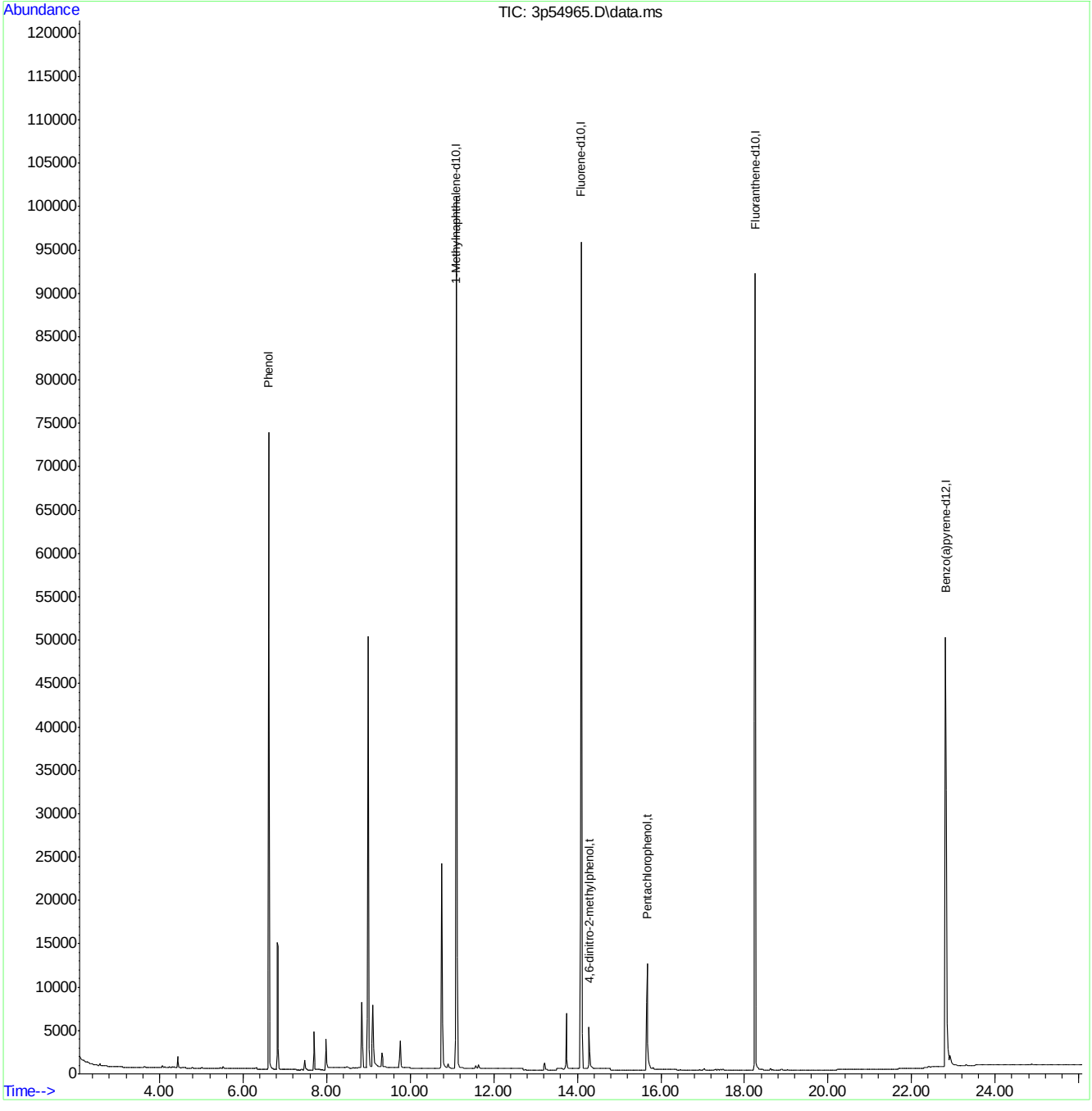
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2503\
Data File : 3p54965.D
Acq On : 6 Jul 2016 6:08 pm
Operator : hankc
Sample : icv2503-1.0
Misc : op95179a,e3p2503
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 07 09:19:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Jul 11 10:09:22 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2509\
Data File : 3p55076.D
Acq On : 13 Jul 2016 10:17 am
Operator : ashleyd
Sample : cc2503-0.5
Misc : op95332a,e3p2509
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 13 10:48:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	11.018	150	72870	4.00	ppm	#-0.08
14) Fluorene-d10	13.998	176	97297	4.00	ppm	-0.09
21) Fluoranthene-d10	18.163	212	140257	4.00	ppm	-0.03
31) Benzo(a)pyrene-d12	22.718	264	91158	4.00	ppm	-0.06
System Monitoring Compounds						
3) 2-Fluorophenol	4.961	112	120436	10.23	ppm	-0.08
Spiked Amount 50.000			Recovery = 20.46%			
4) Phenol-d5	6.542	99	155106	9.85	ppm	-0.06
Spiked Amount 50.000			Recovery = 19.70%			
7) Nitrobenzene-d5	8.130	82	128013	10.81	ppm	-0.08
Spiked Amount 50.000			Recovery = 21.62%			
15) 2-Fluorobiphenyl	11.674	172	243445	10.17	ppm	-0.08
Spiked Amount 50.000			Recovery = 20.34%			
20) 2,4,6-Tribromophenol	14.545	330	35558	11.67	ppm	-0.09
Spiked Amount 50.000			Recovery = 23.34%			
28) Terphenyl-d14	18.936	244	194638	10.54	ppm	-0.03
Spiked Amount 50.000			Recovery = 21.08%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.674	88	4203	0.57	ppm	86
5) Phenol	6.554	94	34952	2.72	ppm #	79
6) bis(2-Chloroethyl)ether	6.687	93	6072	0.47	ppm	80
8) Nitrobenzene	8.167	77	6768	0.51	ppm	93
9) Naphthalene	9.523	128	21069	0.44	ppm	96
10) Hexachlorobutadiene	9.843	225	3278	0.40	ppm	95
11) 2-Methylnaphthalene	10.895	141	12586	0.49	ppm	99
12) 1-Methylnaphthalene	11.079	141	10521	0.52	ppm	95
13) Hexachlorocyclopentadiene	11.264	237	4076	0.93	ppm	90
16) Acenaphthylene	12.659	152	15081	0.44	ppm	60
17) Acenaphthene	13.014	153	12220	0.56	ppm	76
18) 4,6-dinitro-2-methylph...	14.206	198	3499	2.56	ppm	77
19) Fluorene	14.055	166	11497	0.56	ppm	99
22) Hexachlorobenzene	15.164	284	4300	0.56	ppm	73
23) Pentachlorophenol	15.582	266	7886	2.40	ppm	94
24) Phenanthrene	15.953	178	18892	0.58	ppm	95
25) Anthracene	16.061	178	13690	0.49	ppm	93
26) Fluoranthene	18.194	202	15944	0.57	ppm	99
27) Pyrene	18.580	202	16657	0.53	ppm	97
29) Benzo[a]anthracene	20.651	228	12083	0.46	ppm	99
30) Chrysene	20.697	228	15871	0.53	ppm	98
32) Benzo[b]fluoranthene	22.304	252	14767	0.49	ppm	97
33) Benzo[k]fluoranthene	22.342	252	13245	0.52	ppm	96
34) Benzo[a]pyrene	22.755	252	11109	0.47	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.335	276	15187	0.58	ppm	93
36) Dibenz[a,h]anthracene	24.373	278	12366	0.61	ppm	53
37) Benzo[g,h,i]perylene	24.730	276	14539	0.56	ppm	87

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2509\
Data File : 3p55076.D
Acq On : 13 Jul 2016 10:17 am
Operator : ashleyd
Sample : cc2503-0.5
Misc : op95332a,e3p2509
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 13 10:48:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration

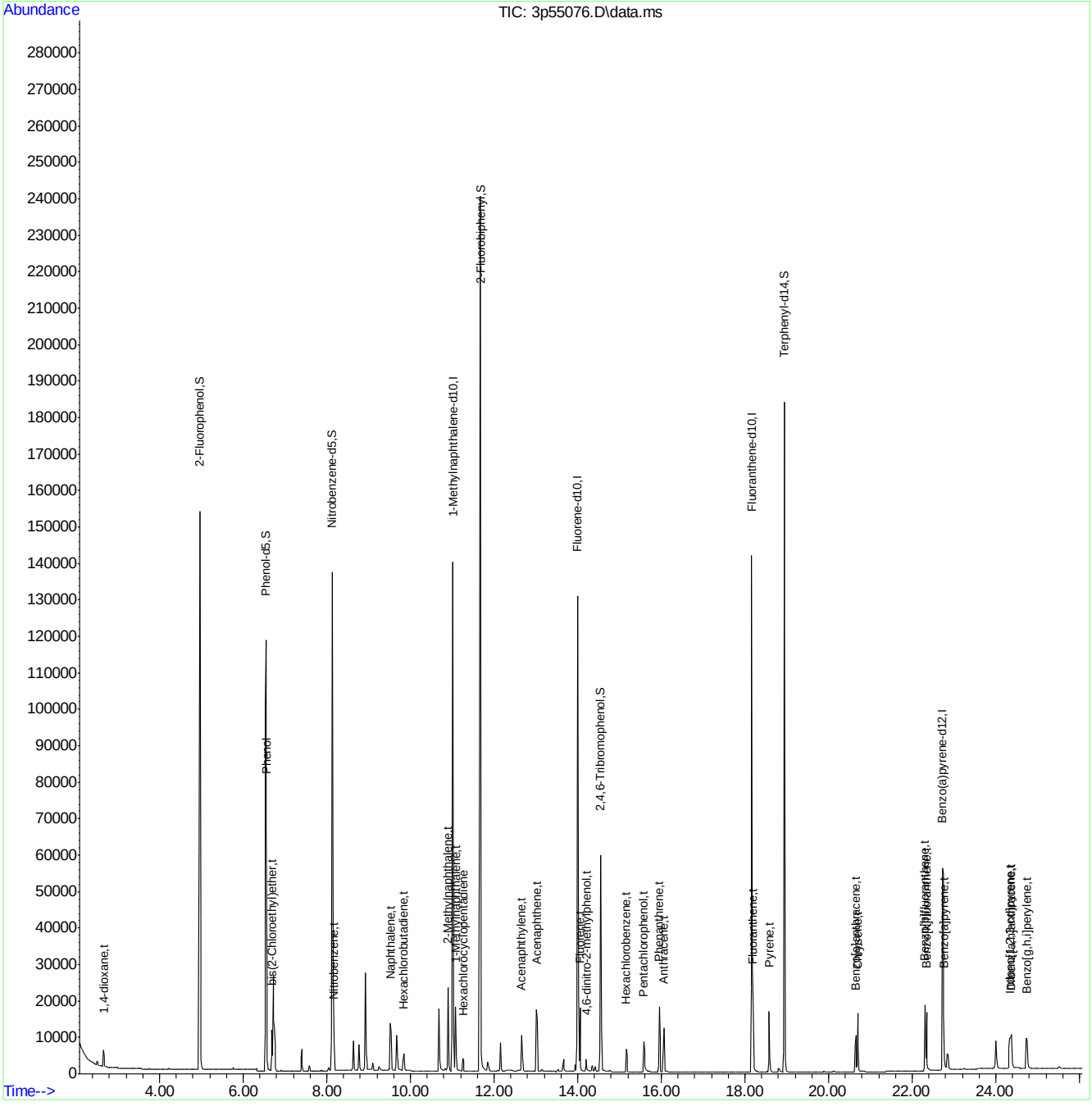
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2509\
Data File : 3p55076.D
Acq On : 13 Jul 2016 10:17 am
Operator : ashleyd
Sample : cc2503-0.5
Misc : op95332a,e3p2509
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 13 10:48:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Jul 06 17:34:10 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/21/16 13:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:55:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	64579	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	115877	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	170187	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.547	264	145082	4.00	ppm	0.01
35) 1-Methylnaphthalene-d10a	9.786	152	64579	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	115877	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.100	112	19610	1.89	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery	=	3.78%#	
3) Phenol-d5	5.497	99	30862	1.85	ppm	0.01
Spiked Amount 50.000			Recovery	=	3.70%	
6) Nitrobenzene-d5	6.968	82	26982	1.87	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.74%	
11) 2-Fluorobiphenyl	10.430	172	47220	1.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.62%	
17) 2,4,6-Tribromophenol	13.313	330	9392	1.56	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.12%	
25) Terphenyl-d14	17.749	244	48941	1.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.62%	
Target Compounds						Qvalue
4) Phenol	5.511	94	8289	0.47	ppm	72
5) bis(2-Chloroethyl)ether	5.607	93	1248	0.09	ppm #	54
7) Naphthalene	8.314	128	4103	0.09	ppm	99
8) Hexachlorobutadiene	8.593	225	702	0.09	ppm	97
9) 2-Methylnaphthalene	9.667	142	2236	0.11	ppm	92
10) Hexachlorocyclopentadiene	10.001	237	37m	0.03	ppm	
13) Acenaphthylene	11.431	152	2799	0.08	ppm	87
14) Acenaphthene	11.764	153	1693	0.08	ppm	94
15) Dibenzofuran	12.141	168	2790	0.09	ppm	100
16) Fluorene	12.812	166	3041	0.08	ppm	94
18) Hexachlorobenzene	13.907	284	1011	0.08	ppm	96
19) Pentachlorophenol	14.359	266	1692	0.35	ppm	83
20) Phenanthrene	14.717	178	4186	0.08	ppm	98
21) Anthracene	14.830	178	3932	0.08	ppm	97
23) Fluoranthene	16.977	202	4774	0.09	ppm	99
24) Pyrene	17.372	202	4693	0.09	ppm	97
26) Benzo[a]anthracene	19.462	228	4467	0.10	ppm	95
27) Chrysene	19.518	228	4796	0.11	ppm	96
29) Benzo[b]fluoranthene	21.120	252	4753	0.09	ppm	95
30) Benzo[k]fluoranthene	21.162	252	5024	0.10	ppm	97
31) Benzo[a]pyrene	21.575	252	4913	0.10	ppm	99
32) Indeno[1,2,3-cd]pyrene	23.130	276	5025	0.09	ppm	95
33) Dibenz[a,h]anthracene	23.158	278	4213	0.09	ppm	92
34) Benzo[g,h,i]perylene	23.530	276	4414	0.09	ppm	99
36) 1,4-Dioxane	2.288	88	693	0.15	ppm #	62
37) 1-Methylnaphthalene	9.858	142	1777	0.10	ppm #	66
39) 4,6-dinitro-2-methylph...	13.027	198	963	0.19	ppm	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:55:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

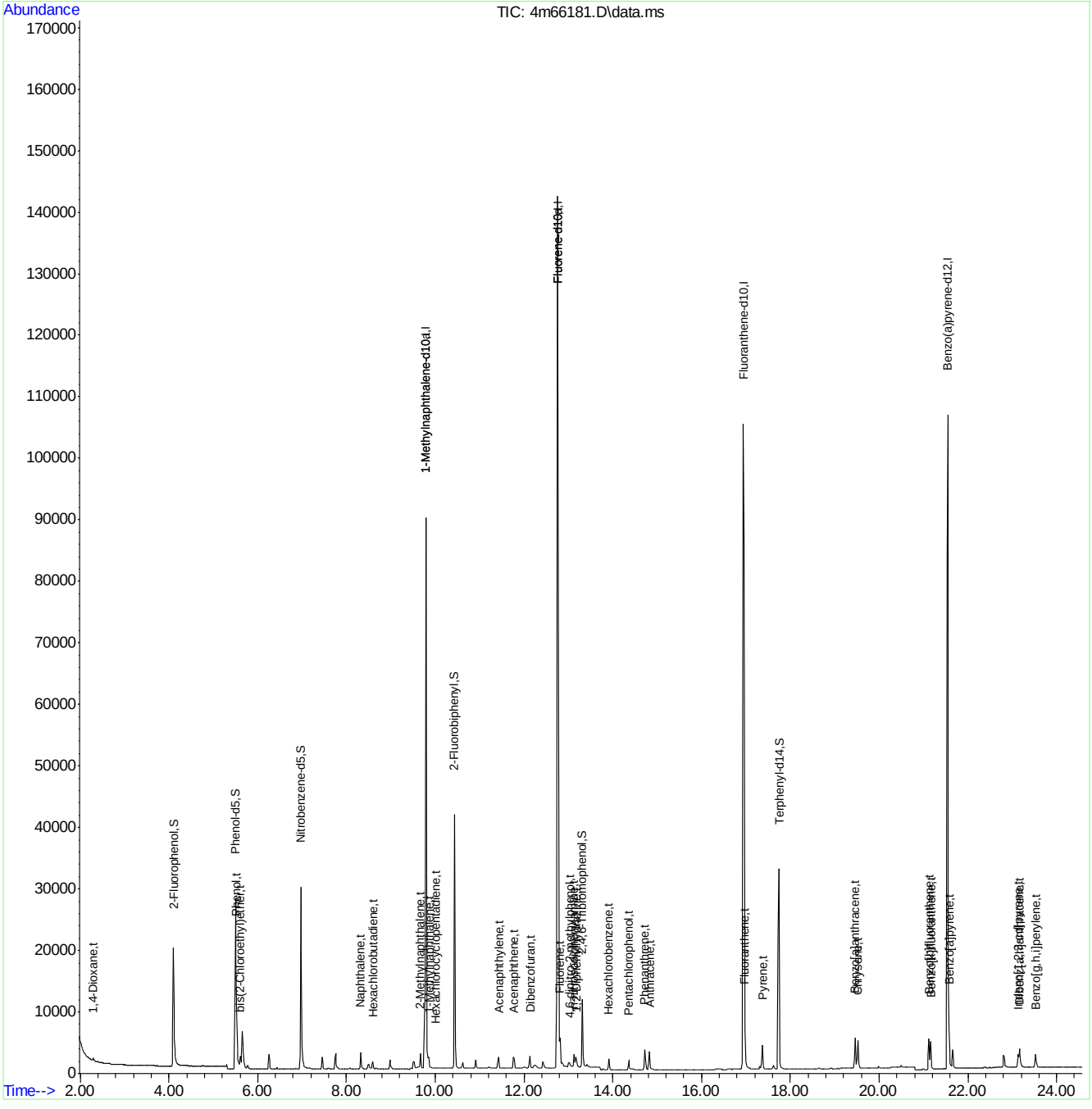
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	2501	0.07	ppm	96
41) n-nitrosodiphenylamine	13.122	169	1855	0.07	ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:55:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integration Approval Summary

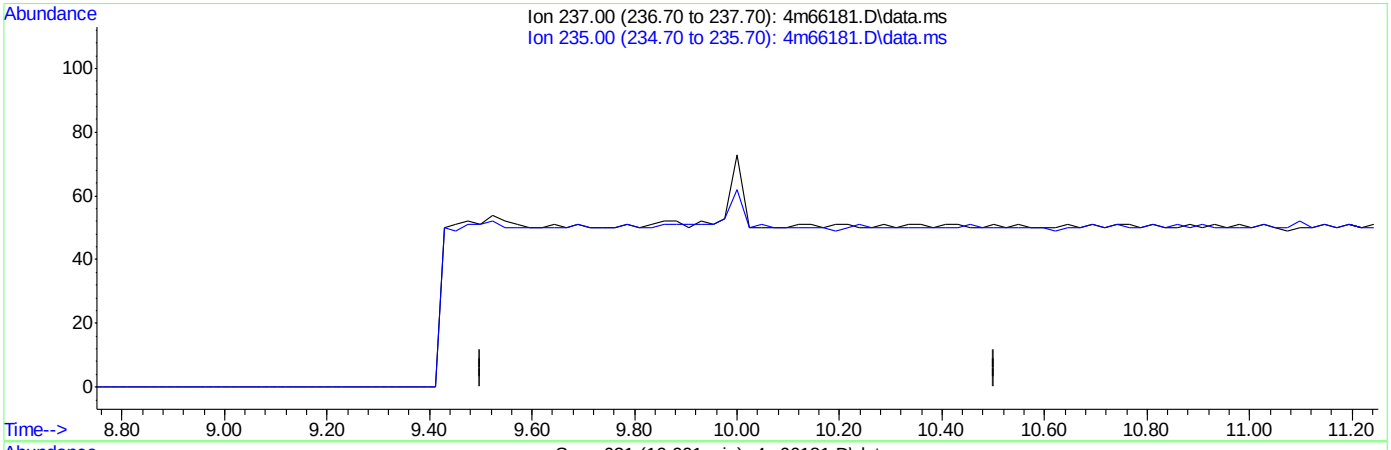
Sample Number:	E4M2974-IC2974	**Method:**	EPA 625 BY SIM
Lab FileID:	4M66181.D	**Analyst approved:**	06/21/16 08:32 Linsey Kirschmann
Injection Time:	06/20/16 23:01	**Supervisor approved:**	06/21/16 13:33 Nina Pandya

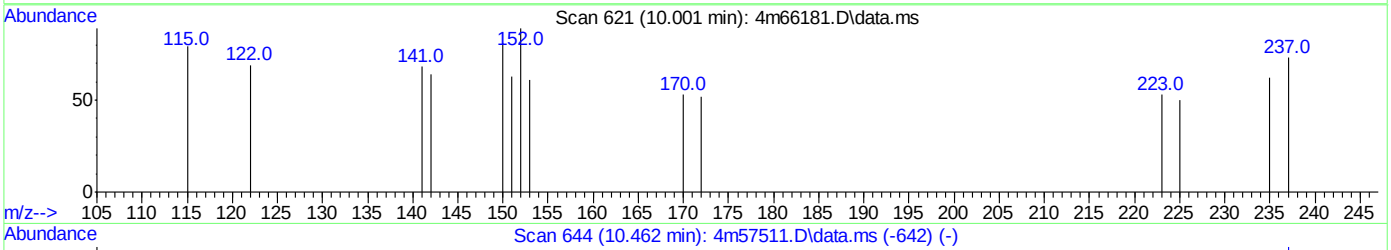
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexachlorocyclopentadiene	77-47-4		10.00	Poor instrument integration

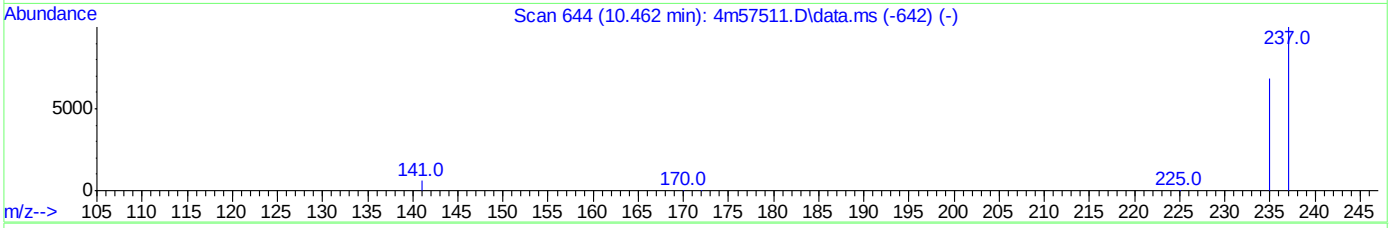
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:53:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66181.D\data.ms

(10) Hexachlorocyclopentadiene (t)

10.001min (-10.001) 0.00ppm

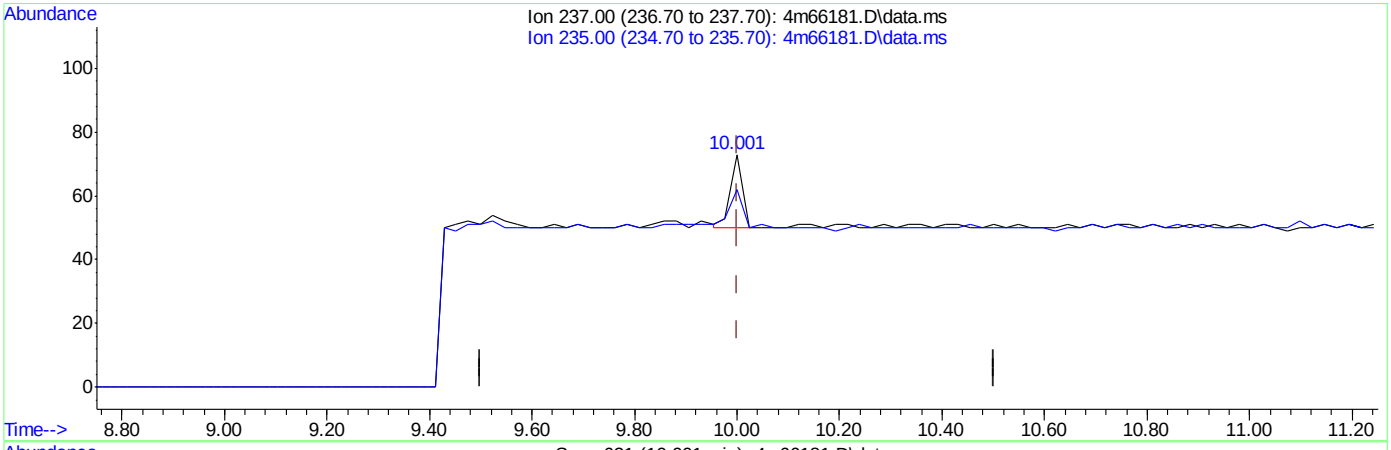
response 0

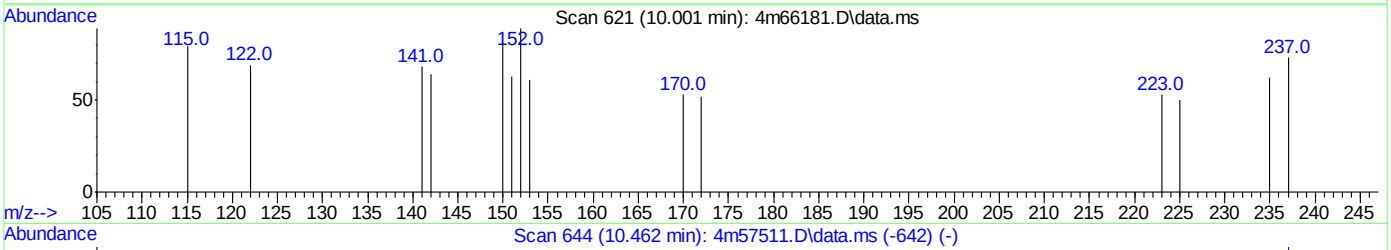
Ion	Exp%	Act%
237.00	100	0.00
235.00	45.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

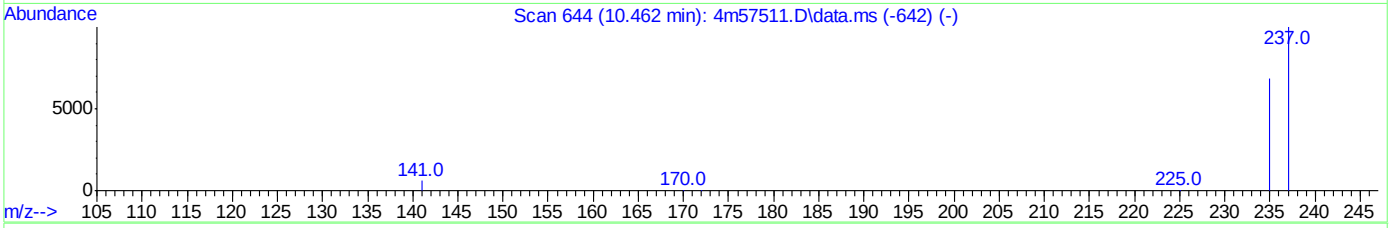
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:53:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66181.D\data.ms

(10) Hexachlorocyclopentadiene (t)

10.001min (-0.000) 0.03ppm m

response 37

Ion	Exp%	Act%
237.00	100	100
235.00	45.30	84.93#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66182.D
Acq On : 20 Jun 2016 11:31 pm
Operator : ashleyd
Sample : ic2974-0.2
Misc : op94799a,e4m2974
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 07:53:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	61294	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	113007	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	178558	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.547	264	149298	4.00	ppm	0.01
35) 1-Methylnaphthalene-d10a	9.786	152	61294	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	113007	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	42611	4.34	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	8.68%#	
3) Phenol-d5	5.497	99	68267	4.32	ppm	0.01
Spiked Amount 50.000			Recovery	=	8.64%	
6) Nitrobenzene-d5	6.968	82	60266	4.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.78%	
11) 2-Fluorobiphenyl	10.431	172	110649	4.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.92%	
17) 2,4,6-Tribromophenol	13.313	330	21661	3.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.36%	
25) Terphenyl-d14	17.749	244	108442	3.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.66%	
Target Compounds						Qvalue
4) Phenol	5.511	94	18355	1.10	ppm	69
5) bis(2-Chloroethyl)ether	5.607	93	2632	0.20	ppm	81
7) Naphthalene	8.314	128	9200	0.21	ppm	99
8) Hexachlorobutadiene	8.593	225	1576	0.22	ppm	99
9) 2-Methylnaphthalene	9.667	142	4875	0.26	ppm	96
10) Hexachlorocyclopentadiene	10.001	237	160	0.13	ppm	95
13) Acenaphthylene	11.431	152	6261	0.19	ppm	85
14) Acenaphthene	11.764	153	3936	0.19	ppm	97
15) Dibenzofuran	12.141	168	7463	0.24	ppm	100
16) Fluorene	12.812	166	7007	0.19	ppm	98
18) Hexachlorobenzene	13.908	284	2301	0.20	ppm	98
19) Pentachlorophenol	14.360	266	3979	0.84	ppm	81
20) Phenanthrene	14.717	178	9557	0.19	ppm	99
21) Anthracene	14.830	178	8392	0.18	ppm	99
23) Fluoranthene	16.977	202	10535	0.19	ppm	99
24) Pyrene	17.372	202	10107	0.18	ppm	98
26) Benzo[a]anthracene	19.462	228	8951	0.19	ppm	98
27) Chrysene	19.518	228	9210	0.19	ppm	97
29) Benzo[b]fluoranthene	21.120	252	10031	0.18	ppm	98
30) Benzo[k]fluoranthene	21.162	252	10126	0.19	ppm	99
31) Benzo[a]pyrene	21.575	252	9644	0.19	ppm	100
32) Indeno[1,2,3-cd]pyrene	23.131	276	11253	0.19	ppm	91
33) Dibenz[a,h]anthracene	23.158	278	9253	0.19	ppm	94
34) Benzo[g,h,i]perylene	23.516	276	9715	0.19	ppm	100
36) 1,4-Dioxane	2.289	88	1167	0.26	ppm #	76
37) 1-Methylnaphthalene	9.858	142	3686	0.21	ppm #	62
39) 4,6-dinitro-2-methylph...	13.027	198	3021	0.63	ppm	79

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66182.D
Acq On : 20 Jun 2016 11:31 pm
Operator : ashleyd
Sample : ic2974-0.2
Misc : op94799a,e4m2974
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 07:53:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	6335	0.18 ppm	99
41) n-nitrosodiphenylamine	13.122	169	4376	0.17 ppm	97

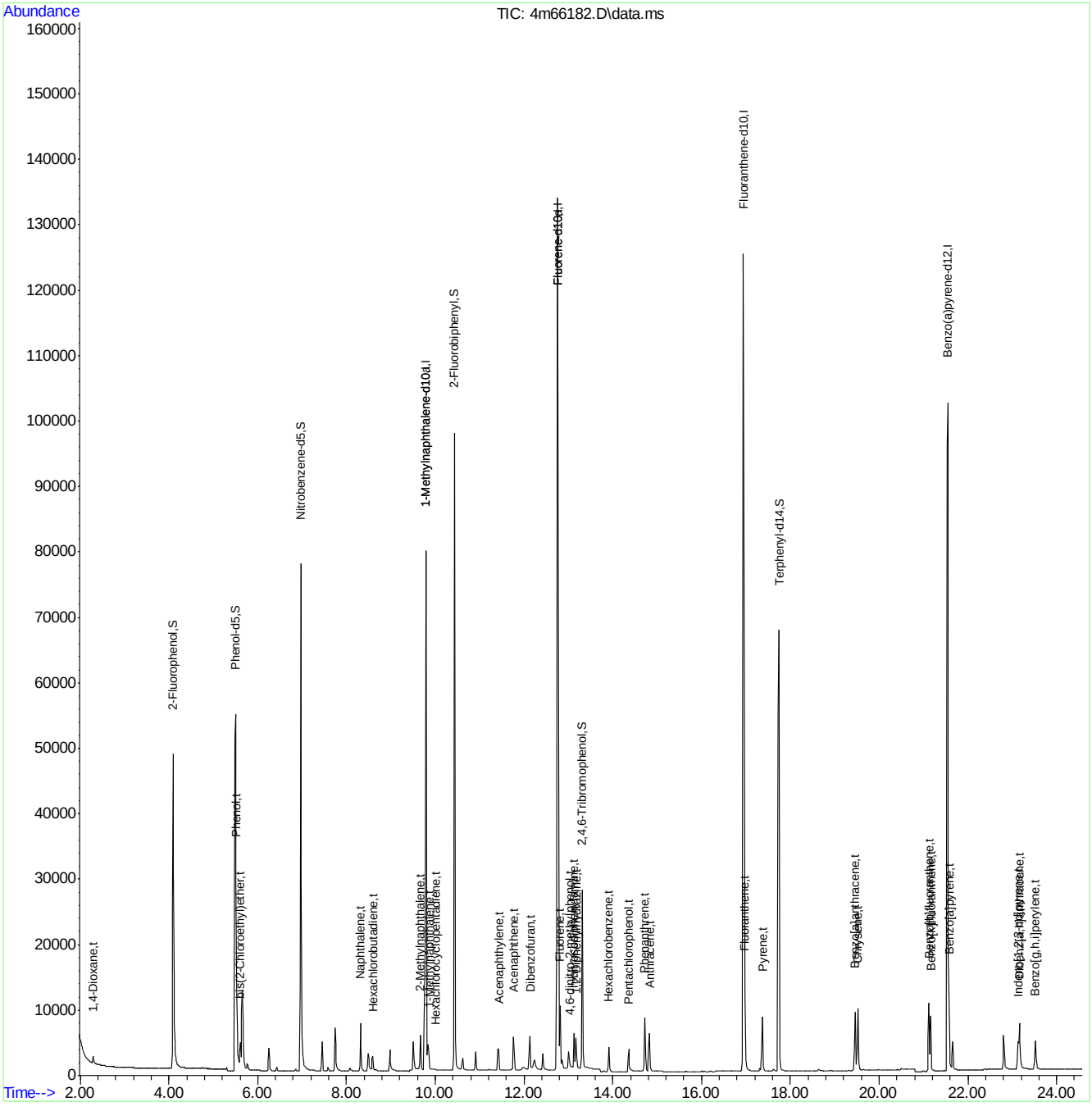
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66182.D
Acq On : 20 Jun 2016 11:31 pm
Operator : ashleyd
Sample : ic2974-0.2
Misc : op94799a,e4m2974
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 07:53:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



M4M2974SIM.M Tue Jun 21 07:55:55 2016 MANAGER Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66183.D
Acq On : 21 Jun 2016 12:01 am
Operator : ashleyd
Sample : ic2974-0.5
Misc : op94799a,e4m2974
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 07:53:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	48821	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	79987	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	121543	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.547	264	101873	4.00	ppm	0.01
35) 1-Methylnaphthalene-d10a	9.786	152	48821	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	79987	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	81796	10.45	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 20.90%			
3) Phenol-d5	5.483	99	130374	10.36	ppm	0.00
Spiked Amount 50.000			Recovery = 20.72%			
6) Nitrobenzene-d5	6.968	82	112634	10.31	ppm	0.00
Spiked Amount 50.000			Recovery = 20.62%			
11) 2-Fluorobiphenyl	10.431	172	209046	10.59	ppm	0.00
Spiked Amount 50.000			Recovery = 21.18%			
17) 2,4,6-Tribromophenol	13.313	330	42279	10.15	ppm	0.00
Spiked Amount 50.000			Recovery = 20.30%			
25) Terphenyl-d14	17.749	244	199233	10.33	ppm	0.00
Spiked Amount 50.000			Recovery = 20.66%			
Target Compounds						Qvalue
4) Phenol	5.511	94	34378	2.58	ppm	88
5) bis(2-Chloroethyl)ether	5.607	93	4985	0.47	ppm	78
7) Naphthalene	8.314	128	17593	0.51	ppm	100
8) Hexachlorobutadiene	8.593	225	2951	0.51	ppm	99
9) 2-Methylnaphthalene	9.667	142	8048	0.54	ppm	97
10) Hexachlorocyclopentadiene	10.001	237	599	0.59	ppm	97
13) Acenaphthylene	11.431	152	11956	0.51	ppm	85
14) Acenaphthene	11.764	153	7448	0.50	ppm	97
15) Dibenzofuran	12.141	168	11632	0.53	ppm	100
16) Fluorene	12.812	166	13592	0.51	ppm	99
18) Hexachlorobenzene	13.908	284	4345	0.52	ppm	99
19) Pentachlorophenol	14.360	266	7373	2.21	ppm	78
20) Phenanthrene	14.717	178	18316	0.51	ppm	99
21) Anthracene	14.830	178	16332	0.50	ppm	99
23) Fluoranthene	16.977	202	19846	0.51	ppm	99
24) Pyrene	17.372	202	19391	0.51	ppm	99
26) Benzo[a]anthracene	19.462	228	16744	0.52	ppm	99
27) Chrysene	19.518	228	17050	0.53	ppm	99
29) Benzo[b]fluoranthene	21.120	252	18885	0.50	ppm	98
30) Benzo[k]fluoranthene	21.162	252	18893	0.53	ppm	99
31) Benzo[a]pyrene	21.575	252	16497	0.48	ppm	99
32) Indeno[1,2,3-cd]pyrene	23.117	276	20627	0.51	ppm	99
33) Dibenz[a,h]anthracene	23.158	278	17147	0.51	ppm	97
34) Benzo[g,h,i]perylene	23.516	276	17848	0.52	ppm	100
36) 1,4-Dioxane	2.288	88	1889	0.53	ppm	77
37) 1-Methylnaphthalene	9.858	142	7124	0.52	ppm #	63
39) 4,6-dinitro-2-methylph...	13.003	198	6273	1.84	ppm	64

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66183.D
Acq On : 21 Jun 2016 12:01 am
Operator : ashleyd
Sample : ic2974-0.5
Misc : op94799a,e4m2974
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 07:53:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	12389	0.49	ppm	99
41) n-nitrosodiphenylamine	13.122	169	8582	0.48	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.27

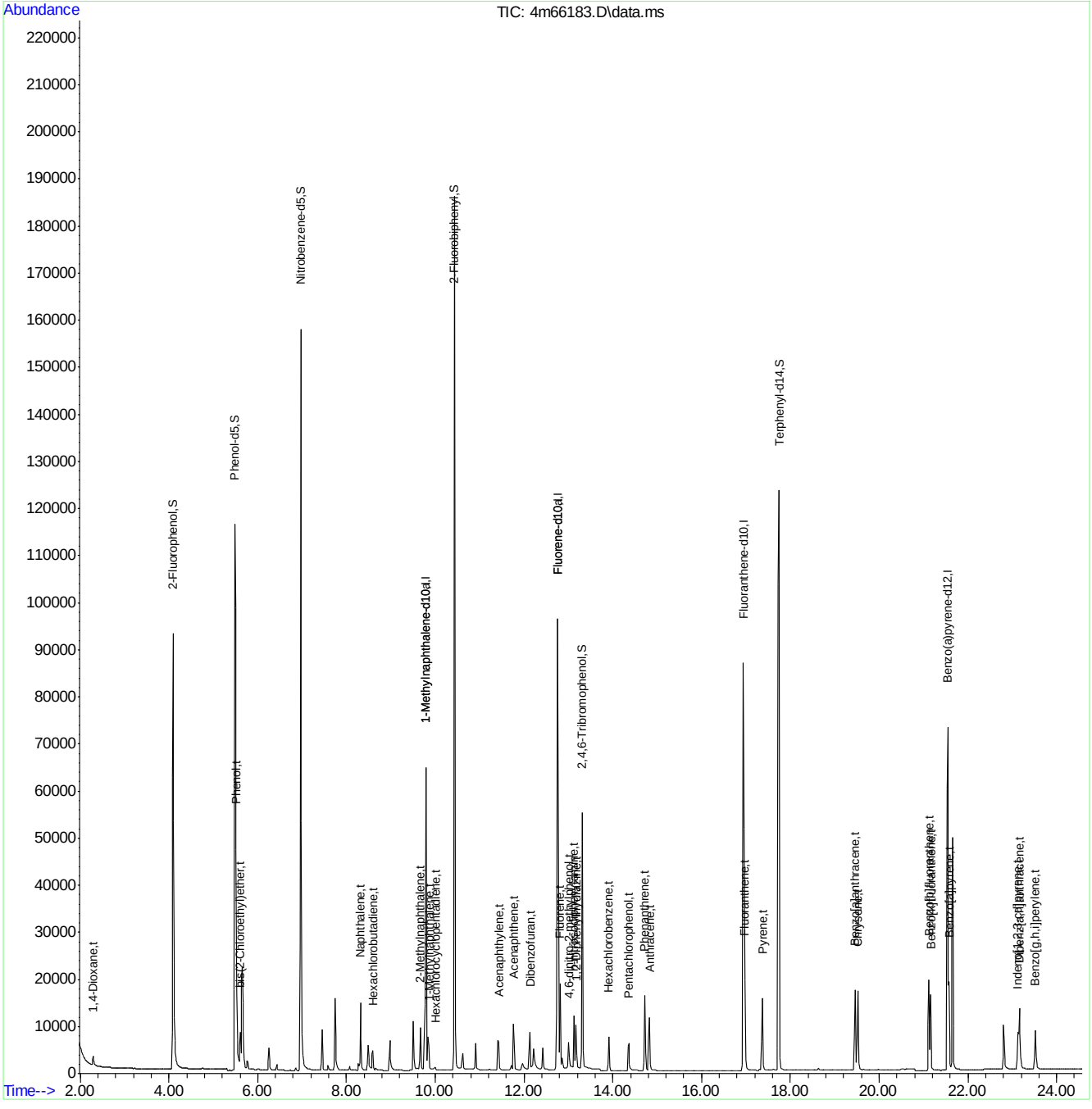
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66183.D
Acq On : 21 Jun 2016 12:01 am
Operator : ashleyd
Sample : ic2974-0.5
Misc : op94799a,e4m2974
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 07:53:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66184.D
Acq On : 21 Jun 2016 12:31 am
Operator : ashleyd
Sample : icc2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 07:53:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	53805	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	88678	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	136758	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.534	264	111755	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	53805	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	88678	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	172656	20.02	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 40.04%			
3) Phenol-d5	5.484	99	277285	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
6) Nitrobenzene-d5	6.968	82	240778	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
11) 2-Fluorobiphenyl	10.431	172	435307	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
17) 2,4,6-Tribromophenol	13.313	330	92390	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
25) Terphenyl-d14	17.749	244	434082	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
4) Phenol	5.511	94	73488	5.00	ppm	100
5) bis(2-Chloroethyl)ether	5.607	93	10826	0.92	ppm	75
7) Naphthalene	8.314	128	38045	1.00	ppm	100
8) Hexachlorobutadiene	8.593	225	6342	1.00	ppm	100
9) 2-Methylnaphthalene	9.667	142	16441	1.00	ppm	100
10) Hexachlorocyclopentadiene	10.001	237	2232	2.00	ppm	100
13) Acenaphthylene	11.409	152	26195	1.00	ppm	100
14) Acenaphthene	11.764	153	16587	1.00	ppm	100
15) Dibenzofuran	12.141	168	24521	1.00	ppm	100
16) Fluorene	12.812	166	29604	1.00	ppm	100
18) Hexachlorobenzene	13.908	284	9238	1.00	ppm	100
19) Pentachlorophenol	14.341	266	18521	5.00	ppm	100
20) Phenanthrene	14.717	178	39729	1.00	ppm	100
21) Anthracene	14.830	178	35891	1.00	ppm	100
23) Fluoranthene	16.977	202	43518	1.00	ppm	100
24) Pyrene	17.372	202	42479	1.00	ppm	100
26) Benzo[a]anthracene	19.462	228	35948	1.00	ppm	99
27) Chrysene	19.519	228	36398	1.00	ppm	100
29) Benzo[b]fluoranthene	21.121	252	41480	1.01	ppm	99
30) Benzo[k]fluoranthene	21.162	252	39891	1.02	ppm	100
31) Benzo[a]pyrene	21.575	252	38047	1.02	ppm	100
32) Indeno[1,2,3-cd]pyrene	23.117	276	44837	1.02	ppm	100
33) Dibenz[a,h]anthracene	23.158	278	37256	1.02	ppm	100
34) Benzo[g,h,i]perylene	23.516	276	38720	1.02	ppm	100
36) 1,4-Dioxane	2.289	88	3599	0.92	ppm	82
37) 1-Methylnaphthalene	9.834	142	15146	1.00	ppm	100
39) 4,6-dinitro-2-methylph...	13.003	198	18936	5.00	ppm	100

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66184.D
Acq On : 21 Jun 2016 12:31 am
Operator : ashleyd
Sample : icc2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 07:53:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	28043	1.00	ppm	100
41) n-nitrosodiphenylamine	13.122	169	19967	1.00	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.28

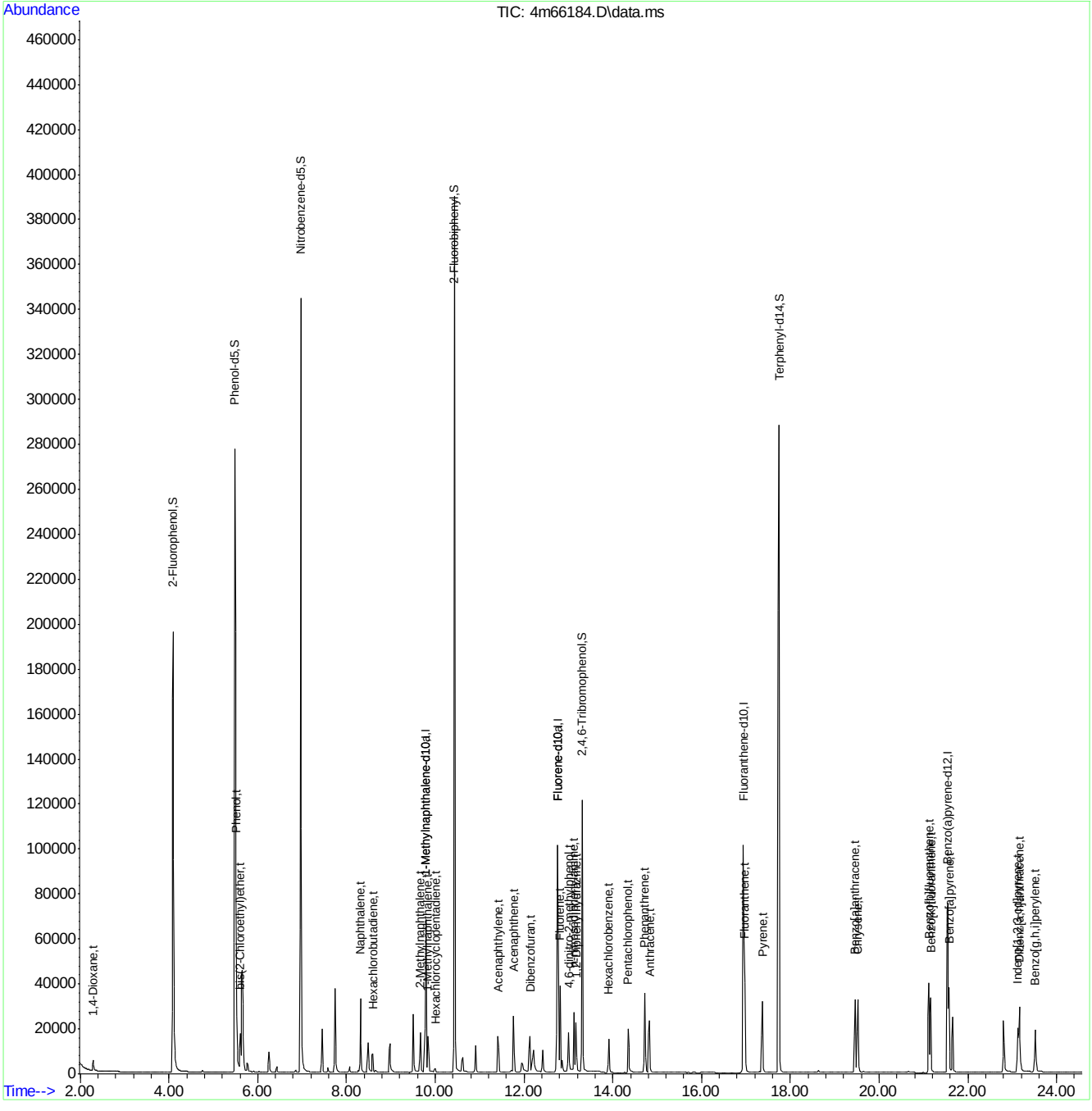
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66184.D
Acq On : 21 Jun 2016 12:31 am
Operator : ashleyd
Sample : icc2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 07:53:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:57:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	65123	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	120426	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	194489	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.534	264	160931	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	65123	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	120426	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.100	112	10664	1.02	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery	=	2.04%#	
3) Phenol-d5	5.497	99	16574	0.99	ppm	0.01
Spiked Amount 50.000			Recovery	=	1.98%	
6) Nitrobenzene-d5	6.968	82	14948	1.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.06%	
11) 2-Fluorobiphenyl	10.431	172	26966	1.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.04%	
17) 2,4,6-Tribromophenol	13.313	330	4974	0.79	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.58%	
25) Terphenyl-d14	17.749	244	26084	0.85	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.70%	
Target Compounds						Qvalue
4) Phenol	5.511	94	4641	0.26	ppm	48
5) bis(2-Chloroethyl)ether	5.607	93	557	0.04	ppm #	53
7) Naphthalene	8.314	128	2263	0.05	ppm	99
8) Hexachlorobutadiene	8.593	225	403	0.05	ppm	98
9) 2-Methylnaphthalene	9.667	142	1475	0.07	ppm	95
13) Acenaphthylene	11.431	152	1507	0.04	ppm	87
14) Acenaphthene	11.764	153	965	0.04	ppm	98
15) Dibenzofuran	12.141	168	2323	0.07	ppm	100
16) Fluorene	12.812	166	1764	0.04	ppm	92
18) Hexachlorobenzene	13.908	284	573	0.05	ppm	98
19) Pentachlorophenol	14.360	266	938	0.19	ppm	86
20) Phenanthrene	14.717	178	2308	0.04	ppm	98
21) Anthracene	14.830	178	2199	0.05	ppm	97
23) Fluoranthene	16.977	202	2773	0.04	ppm	99
24) Pyrene	17.372	202	2482	0.04	ppm	98
26) Benzo[a]anthracene	19.462	228	2163	0.04	ppm	97
27) Chrysene	19.519	228	2438	0.05	ppm	96
29) Benzo[b]fluoranthene	21.121	252	2558	0.04	ppm	97
30) Benzo[k]fluoranthene	21.162	252	2707	0.05	ppm	98
31) Benzo[a]pyrene	21.575	252	2415m	0.04	ppm	
32) Indeno[1,2,3-cd]pyrene	23.131	276	2781	0.04	ppm	96
33) Dibenz[a,h]anthracene	23.158	278	2312	0.04	ppm	84
34) Benzo[g,h,i]perylene	23.530	276	2464	0.05	ppm	100
37) 1-Methylnaphthalene	9.858	142	987	0.05	ppm #	62
39) 4,6-dinitro-2-methylph...	13.027	198	615	0.12	ppm	93
40) 1,2-Diphenylhydrazine	13.170	77	1490	0.04	ppm	100
41) n-nitrosodiphenylamine	13.122	169	1042	0.04	ppm	94

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:57:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.29

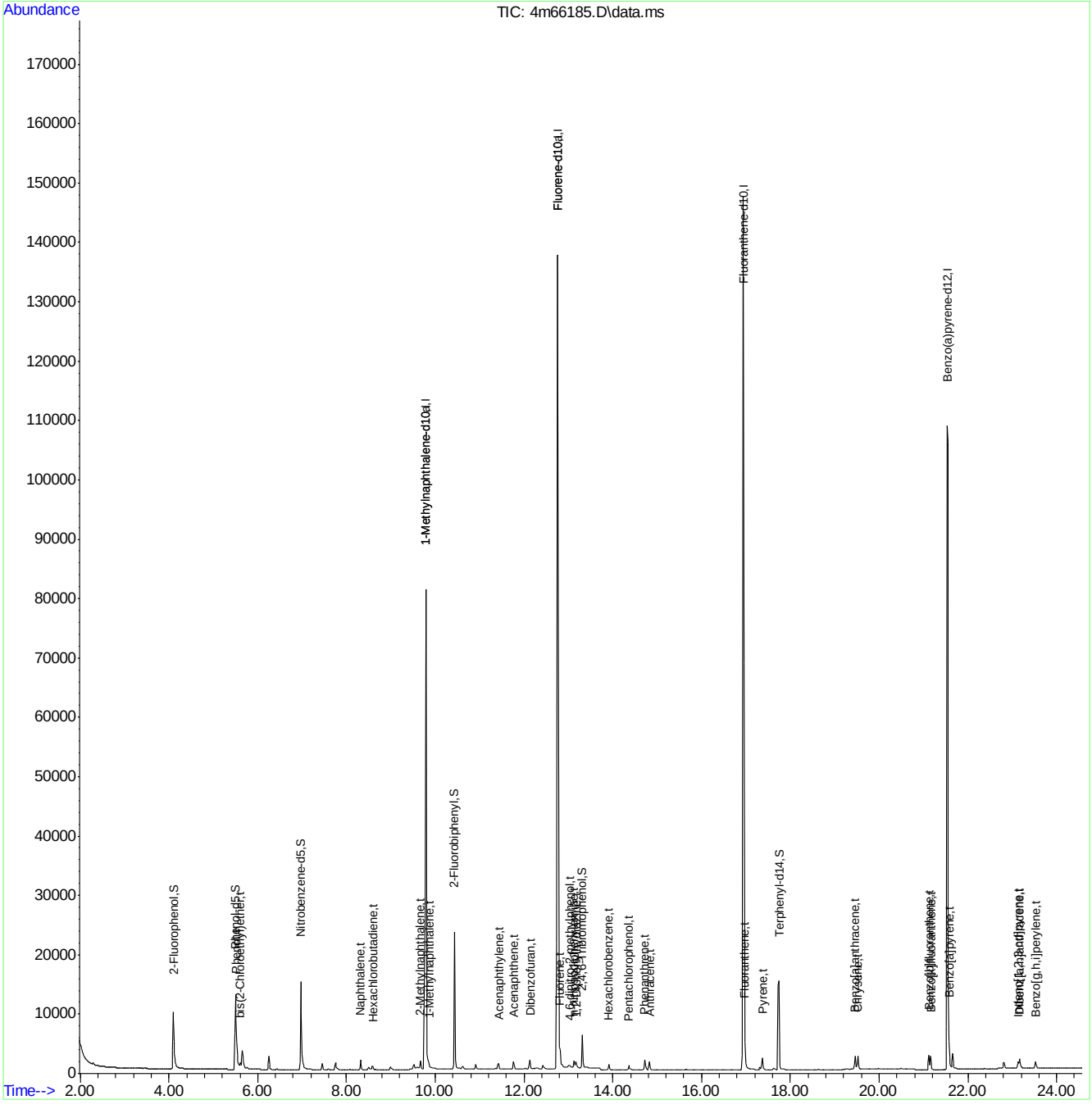
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

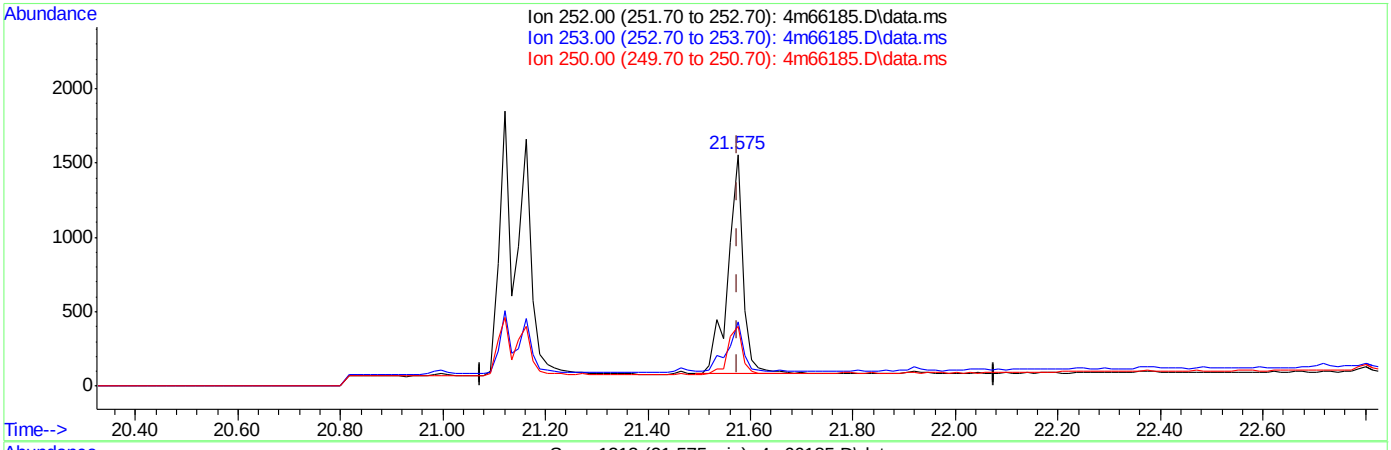
Quant Time: Jun 21 07:57:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

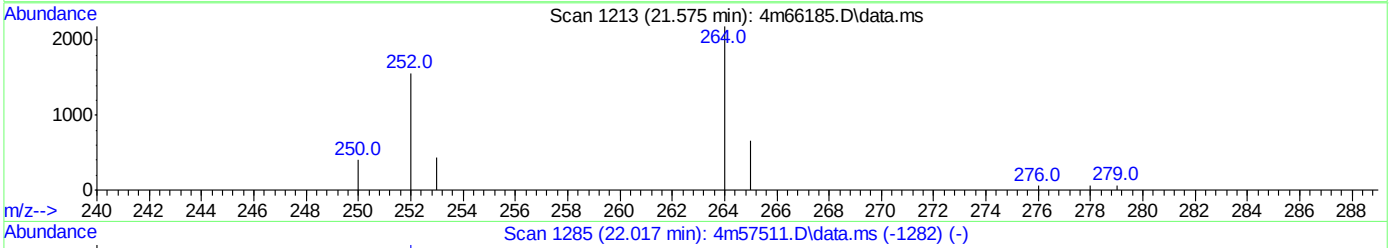


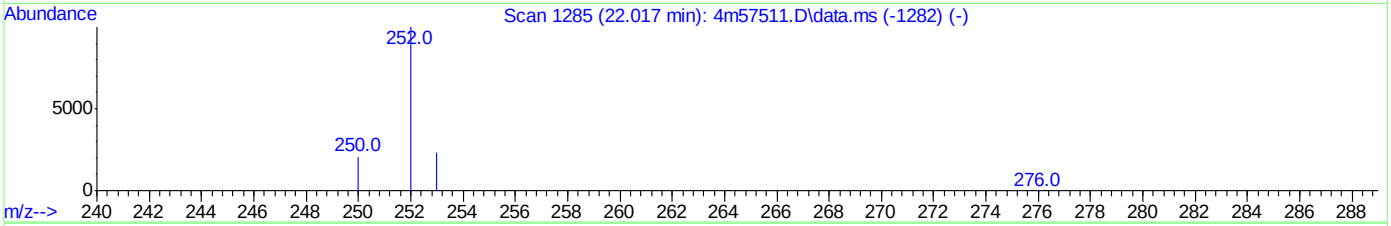
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:53:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66185.D\data.ms

(31) Benzo[a]pyrene (t)

21.575min (0.000) 0.06ppm

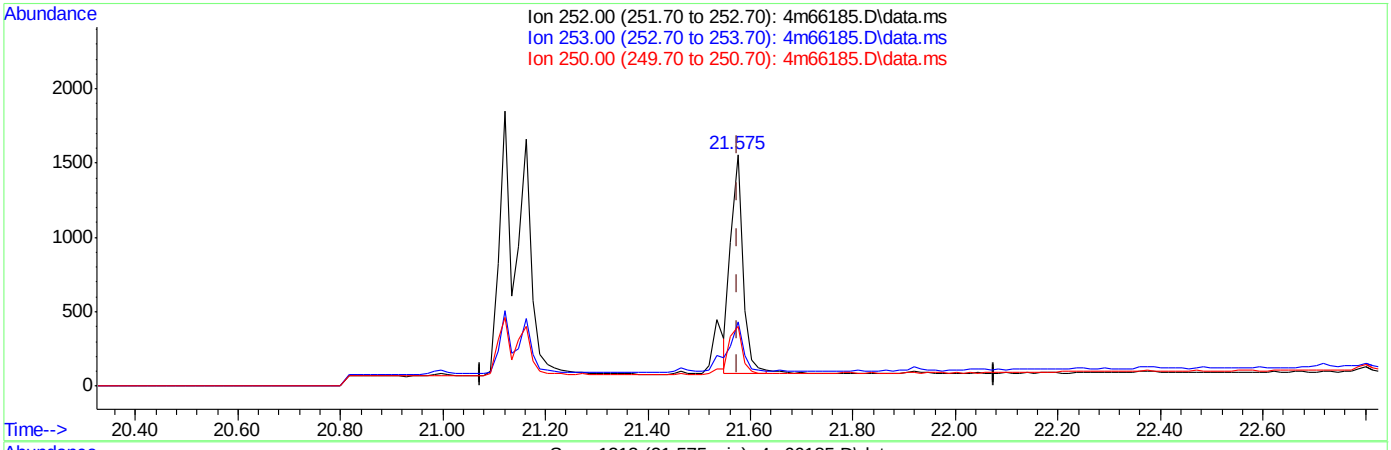
response 2993

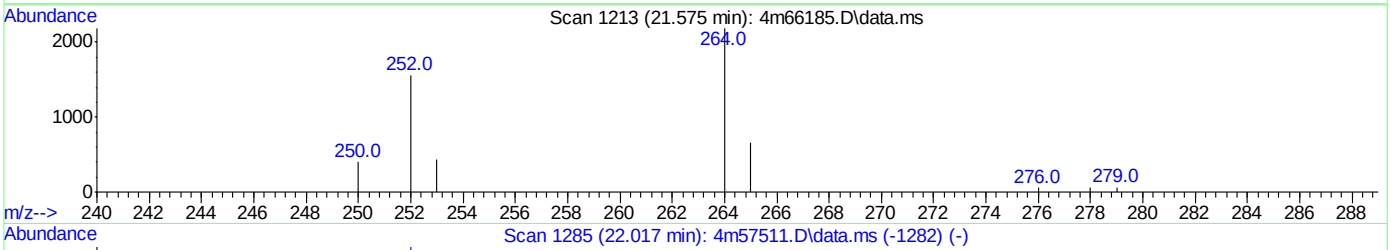
Ion	Exp%	Act%
252.00	100	100
253.00	22.40	22.56
250.00	21.30	21.68
0.00	0.00	0.00

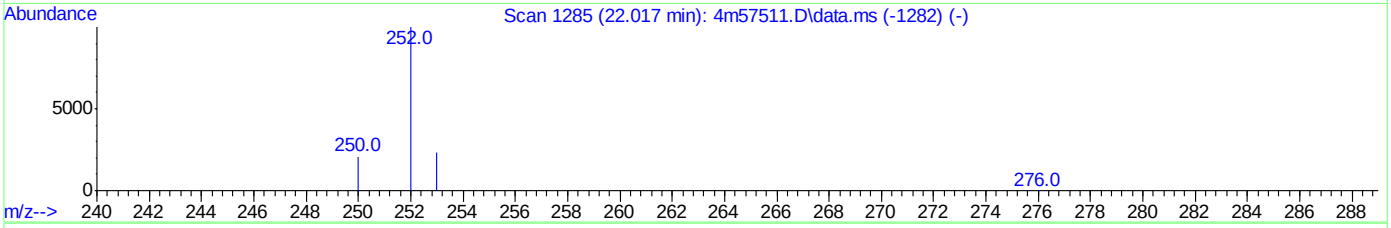
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:53:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66185.D\data.ms

(31) Benzo[a]pyrene (t)

21.575min (0.000) 0.04ppm m

response 2415

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	27.73
250.00	21.30	25.74
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66186.D
Acq On : 21 Jun 2016 1:31 am
Operator : ashleyd
Sample : ic2974-0.02
Misc : op94799a,e4m2974
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 07:58:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.786	152	61071	4.00	ppm		0.00
12) Fluorene-d10	12.764	176	110365	4.00	ppm		0.00
22) Fluoranthene-d10	16.939	212	174894	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	21.534	264	142482	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	9.786	152	61071	4.00	ppm		0.00
38) Fluorene-d10a	12.764	176	110365	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.100	112	3577	0.37	ppm		0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.74%#				
3) Phenol-d5	5.497	99	5671	0.36	ppm		0.01
Spiked Amount 50.000			Recovery = 0.72%				
6) Nitrobenzene-d5	6.984	82	5230	0.38	ppm		0.02
Spiked Amount 50.000			Recovery = 0.76%				
11) 2-Fluorobiphenyl	10.431	172	9683	0.39	ppm		0.00
Spiked Amount 50.000			Recovery = 0.78%				
17) 2,4,6-Tribromophenol	13.313	330	1645	0.29	ppm		0.00
Spiked Amount 50.000			Recovery = 0.58%				
25) Terphenyl-d14	17.749	244	9281	0.33	ppm		0.00
Spiked Amount 50.000			Recovery = 0.66%				
Target Compounds							Qvalue
4) Phenol	5.525	94	1518	0.09	ppm		87
5) bis(2-Chloroethyl)ether	5.607	93	183	0.01	ppm	#	63
7) Naphthalene	8.314	128	846	0.02	ppm		97
8) Hexachlorobutadiene	8.593	225	149	0.02	ppm		97
9) 2-Methylnaphthalene	9.667	142	894	0.05	ppm		93
13) Acenaphthylene	11.431	152	573	0.02	ppm		88
14) Acenaphthene	11.764	153	350	0.02	ppm		94
15) Dibenzofuran	12.141	168	1686	0.06	ppm		100
16) Fluorene	12.812	166	615	0.02	ppm		100
18) Hexachlorobenzene	13.908	284	272	0.02	ppm		95
19) Pentachlorophenol	14.360	266	500	0.11	ppm		91
20) Phenanthrene	14.717	178	843	0.02	ppm		97
21) Anthracene	14.830	178	770	0.02	ppm		95
23) Fluoranthene	16.977	202	1130	0.02	ppm		97
24) Pyrene	17.372	202	909	0.02	ppm		96
26) Benzo[a]anthracene	19.462	228	826	0.02	ppm	#	94
27) Chrysene	19.518	228	990	0.02	ppm		96
29) Benzo[b]fluoranthene	21.120	252	993	0.02	ppm		95
30) Benzo[k]fluoranthene	21.162	252	1119	0.02	ppm		95
31) Benzo[a]pyrene	21.575	252	1019	0.02	ppm		94
32) Indeno[1,2,3-cd]pyrene	23.131	276	1096	0.02	ppm		99
33) Dibenz[a,h]anthracene	23.158	278	845	0.02	ppm		75
34) Benzo[g,h,i]perylene	23.530	276	924	0.02	ppm		99
37) 1-Methylnaphthalene	9.858	142	384	0.02	ppm	#	63
39) 4,6-dinitro-2-methylph...	13.027	198	338	0.07	ppm		84
40) 1,2-Diphenylhydrazine	13.170	77	484	0.01	ppm		96
41) n-nitrosodiphenylamine	13.122	169	347	0.01	ppm		85

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66186.D
Acq On : 21 Jun 2016 1:31 am
Operator : ashleyd
Sample : ic2974-0.02
Misc : op94799a,e4m2974
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 07:58:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.30

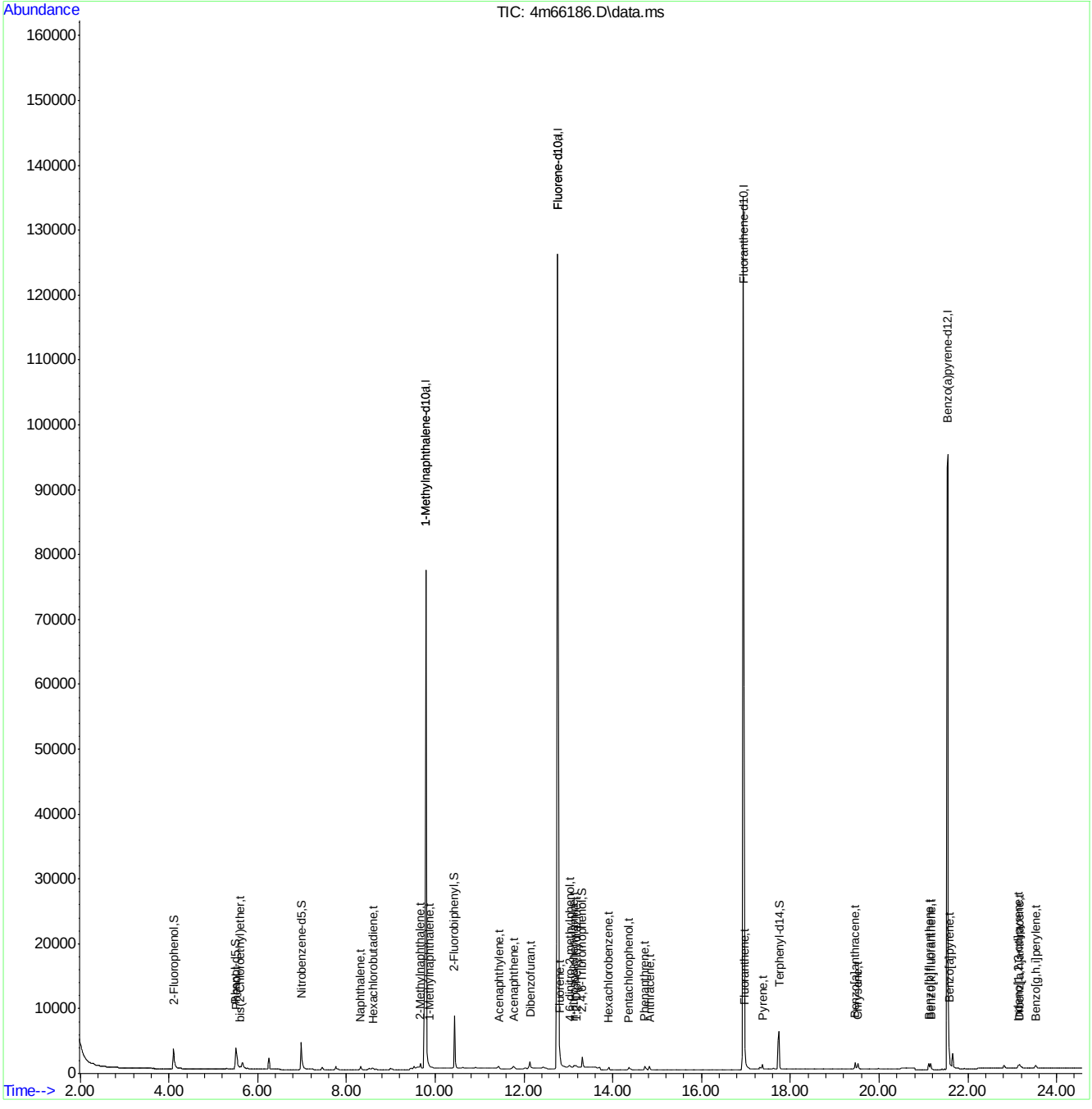
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66186.D
Acq On : 21 Jun 2016 1:31 am
Operator : ashleyd
Sample : ic2974-0.02
Misc : op94799a,e4m2974
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 07:58:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

4M66187.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya
06/21/16 13:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:58:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	52088	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	96797	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	149300	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.533	264	120485	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	52088	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	96797	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.110	112	1452	0.17	ppm	0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.34%#			
3) Phenol-d5	5.511	99	2293	0.17	ppm	0.03
Spiked Amount 50.000			Recovery = 0.34%			
6) Nitrobenzene-d5	6.984	82	2159	0.19	ppm	0.02
Spiked Amount 50.000			Recovery = 0.38%			
11) 2-Fluorobiphenyl	10.430	172	4224	0.20	ppm	0.00
Spiked Amount 50.000			Recovery = 0.40%			
17) 2,4,6-Tribromophenol	13.313	330	681	0.14	ppm	0.00
Spiked Amount 50.000			Recovery = 0.28%			
25) Terphenyl-d14	17.749	244	3995	0.17	ppm	0.00
Spiked Amount 50.000			Recovery = 0.34%			
Target Compounds						Qvalue
4) Phenol	5.525	94	640	0.04	ppm	62
7) Naphthalene	8.314	128	363	0.01	ppm	98
9) 2-Methylnaphthalene	9.667	142	639	0.04	ppm	90
13) Acenaphthylene	11.431	152	239	0.01	ppm	93
14) Acenaphthene	11.764	153	148	0.01	ppm	99
15) Dibenzofuran	12.141	168	1318	0.05	ppm	100
16) Fluorene	12.812	166	262	0.01	ppm	97
18) Hexachlorobenzene	13.908	284	92m	0.01	ppm	
19) Pentachlorophenol	14.360	266	329	0.08	ppm	91
20) Phenanthrene	14.717	178	374	0.01	ppm	97
21) Anthracene	14.830	178	349	0.01	ppm	93
23) Fluoranthene	16.977	202	554	0.01	ppm	98
24) Pyrene	17.372	202	401	0.01	ppm	97
26) Benzo[a]anthracene	19.462	228	365	0.01	ppm #	92
27) Chrysene	19.518	228	436	0.01	ppm	94
29) Benzo[b]fluoranthene	21.120	252	521	0.01	ppm	94
30) Benzo[k]fluoranthene	21.162	252	610	0.01	ppm	95
31) Benzo[a]pyrene	21.575	252	529	0.01	ppm	88
32) Indeno[1,2,3-cd]pyrene	23.131	276	477	0.01	ppm	92
33) Dibenz[a,h]anthracene	23.172	278	406	0.01	ppm	88
34) Benzo[g,h,i]perylene	23.530	276	455	0.01	ppm	99
37) 1-Methylnaphthalene	9.858	142	183	0.01	ppm #	69
39) 4,6-dinitro-2-methylph...	13.051	198	165	0.04	ppm	75
40) 1,2-Diphenylhydrazine	13.170	77	192	0.01	ppm	96
41) n-nitrosodiphenylamine	13.146	169	162	0.01	ppm	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:58:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

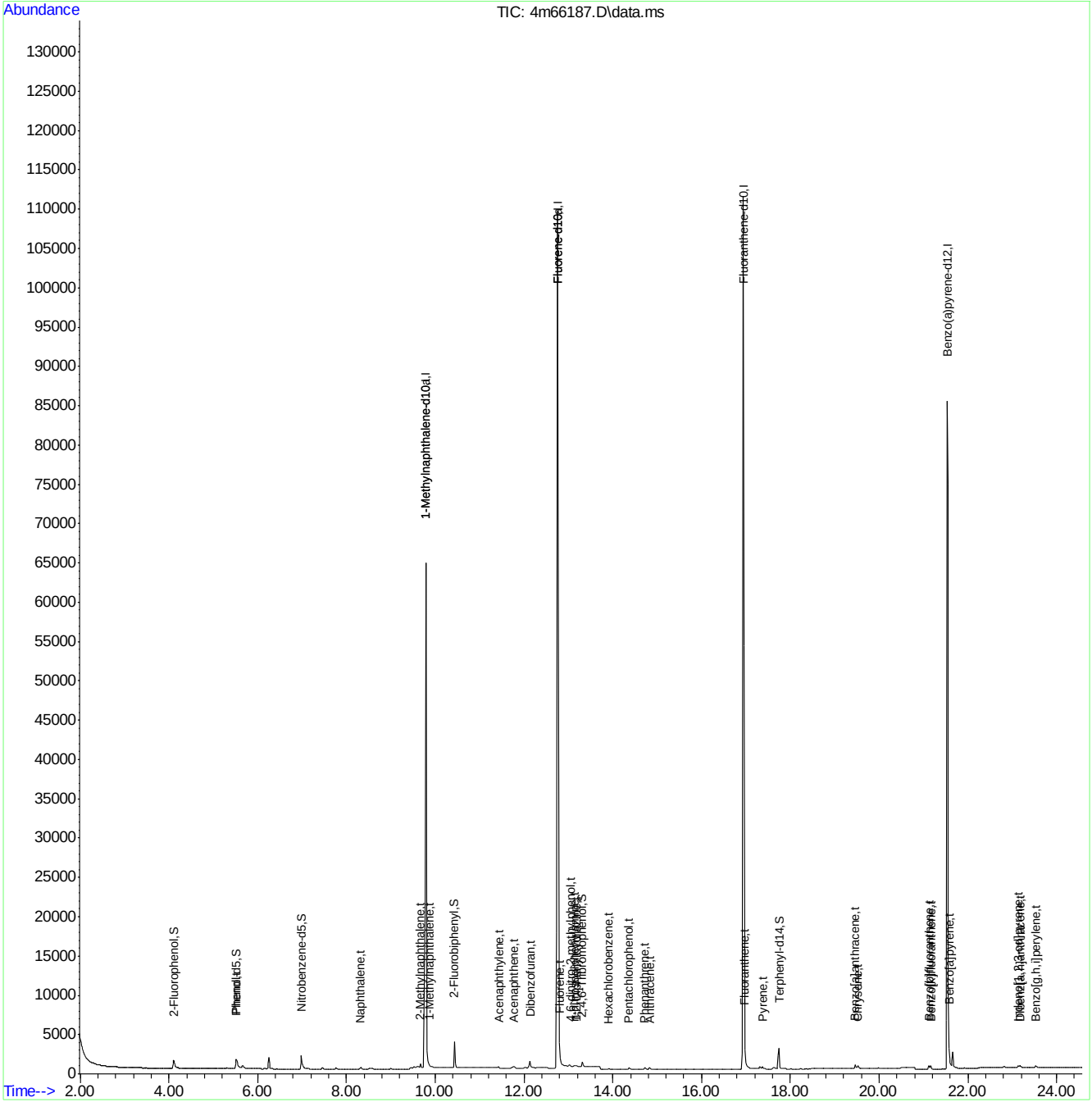
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:58:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



M4M2974SIM.M Tue Jun 21 07:59:03 2016 MANAGER Page: 3

Manual Integration Approval Summary

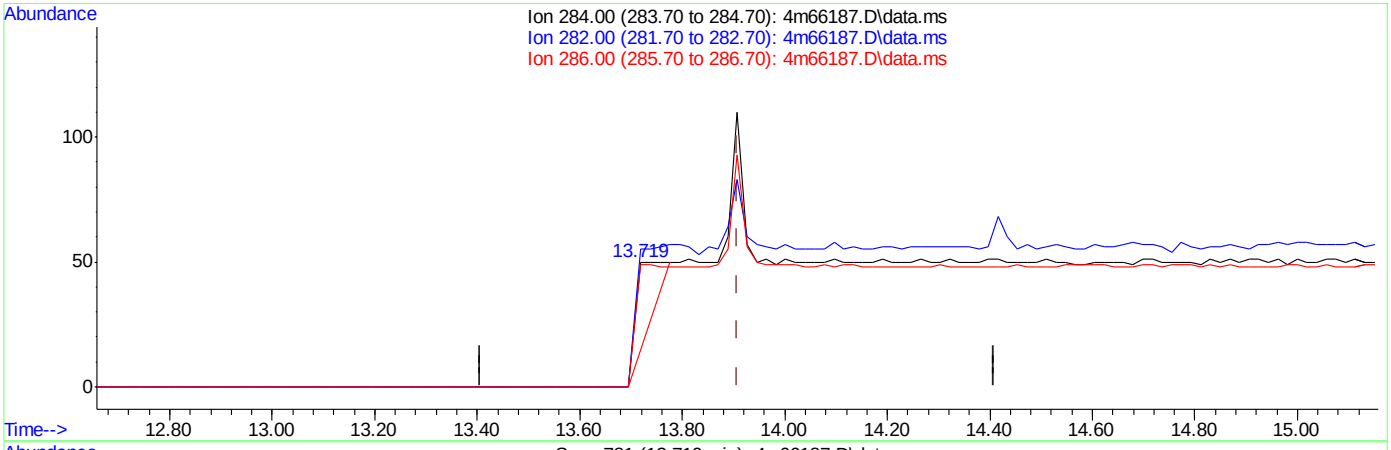
Sample Number:	E4M2974-IC2974	**Method:**	EPA 625 BY SIM
Lab FileID:	4M66187.D	**Analyst approved:**	06/21/16 08:32 Linsey Kirschmann
Injection Time:	06/21/16 02:01	**Supervisor approved:**	06/21/16 13:33 Nina Pandya

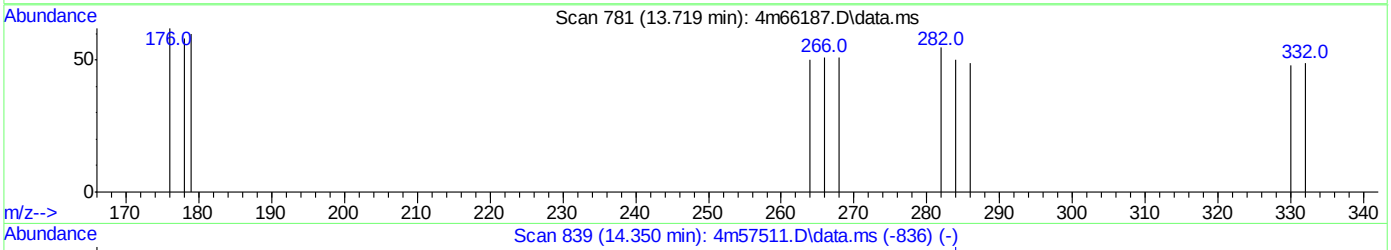
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexachlorobenzene	118-74-1		13.91	Poor instrument integration

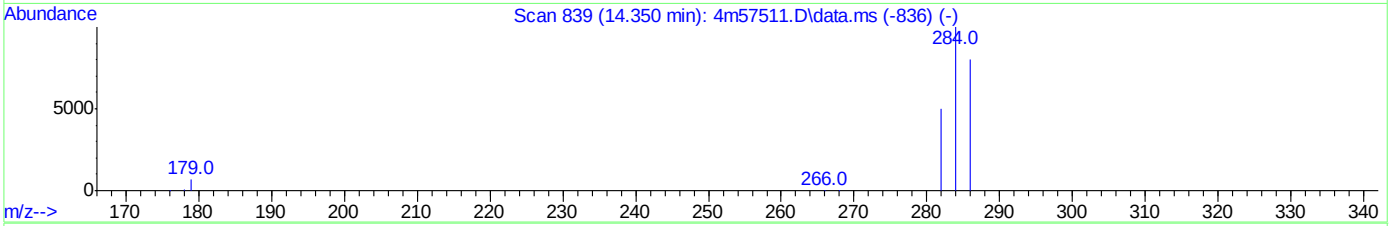
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:53:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66187.D\data.ms

(18) Hexachlorobenzene (t)

13.719min (-0.188) 0.01ppm

response 121

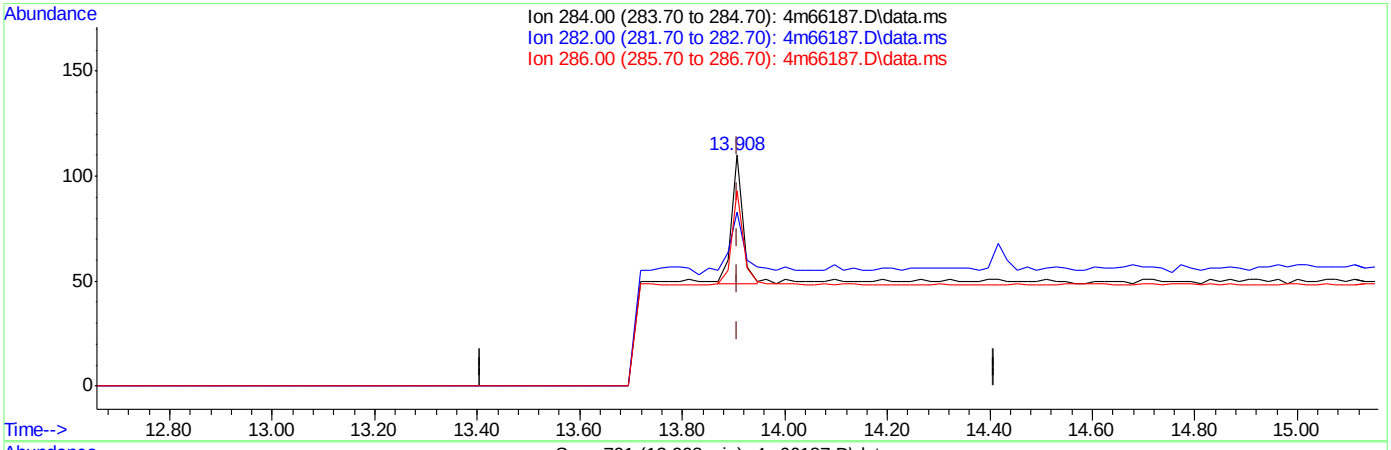
Ion	Exp%	Act%
284.00	100	100
282.00	49.10	106.00#
286.00	81.90	100.00
0.00	0.00	0.00

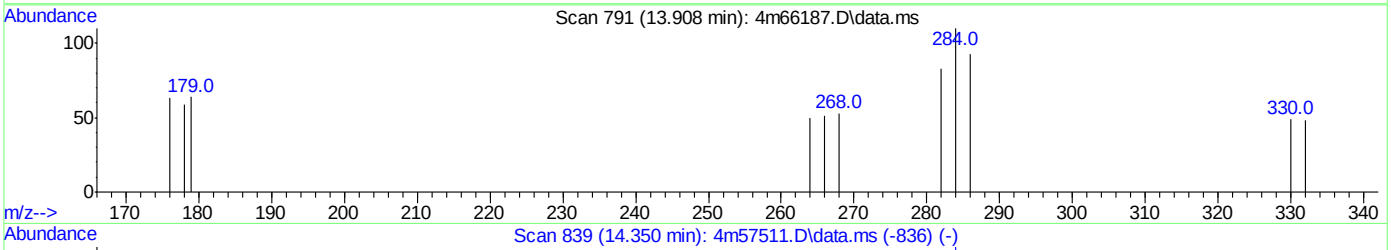
SGS ACCUTEST JC23443

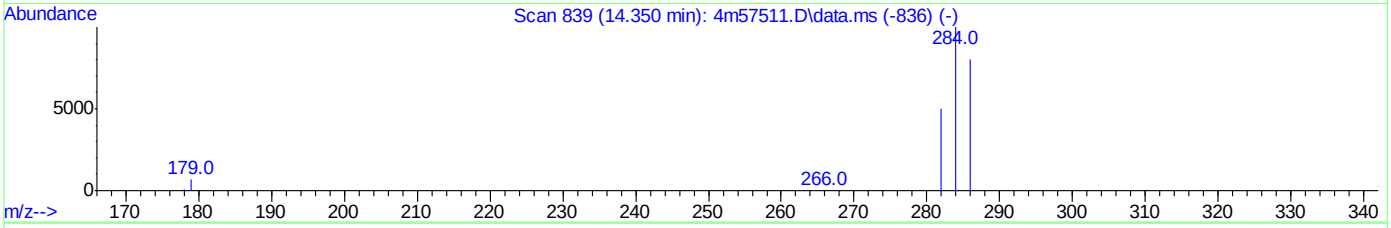
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:53:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66187.D\data.ms

(18) Hexachlorobenzene (t)

13.908min (-0.000) 0.01ppm m

response 92

Ion	Exp%	Act%
284.00	100	100
282.00	49.10	75.45
286.00	81.90	84.55
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66188.D
Acq On : 21 Jun 2016 2:31 am
Operator : ashleyd
Sample : ic2974-5.0
Misc : op94799a,e4m2974
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 07:53:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	59276	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	118283	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	166736	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.547	264	138747	4.00	ppm	0.01
35) 1-Methylnaphthalene-d10a	9.786	152	59276	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	118283	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	886370	93.31	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 186.62%#			
3) Phenol-d5	5.497	99	1388174	90.88	ppm	0.01
Spiked Amount 50.000			Recovery = 181.76%			
6) Nitrobenzene-d5	6.984	82	1286964	97.03	ppm	0.02
Spiked Amount 50.000			Recovery = 194.06%			
11) 2-Fluorobiphenyl	10.430	172	1589587	66.29	ppm	0.00
Spiked Amount 50.000			Recovery = 132.58%			
17) 2,4,6-Tribromophenol	13.313	330	390490	63.37	ppm	0.00
Spiked Amount 50.000			Recovery = 126.74%			
25) Terphenyl-d14	17.749	244	1801284	68.07	ppm	0.00
Spiked Amount 50.000			Recovery = 136.14%			
Target Compounds						Qvalue
4) Phenol	5.511	94	382997	23.65	ppm	84
5) bis(2-Chloroethyl)ether	5.607	93	57615	4.45	ppm #	55
7) Naphthalene	8.314	128	200110	4.77	ppm	100
8) Hexachlorobutadiene	8.593	225	33384	4.78	ppm	99
9) 2-Methylnaphthalene	9.667	142	88068	4.86	ppm	99
10) Hexachlorocyclopentadiene	10.001	237	29396	23.91	ppm	98
13) Acenaphthylene	11.409	152	144680	4.14	ppm	100
14) Acenaphthene	11.764	153	86149	3.89	ppm	99
15) Dibenzofuran	12.141	168	132775	4.06	ppm	100
16) Fluorene	12.812	166	163295	4.14	ppm	99
18) Hexachlorobenzene	13.908	284	48933	3.97	ppm	100
19) Pentachlorophenol	14.341	266	117769	23.84	ppm	96
20) Phenanthrene	14.717	178	209846	3.96	ppm	100
21) Anthracene	14.811	178	201847	4.22	ppm	88
23) Fluoranthene	16.977	202	223507	4.21	ppm	99
24) Pyrene	17.372	202	230182	4.44	ppm	98
26) Benzo[a]anthracene	19.462	228	196135	4.47	ppm	99
27) Chrysene	19.518	228	194015	4.37	ppm	99
29) Benzo[b]fluoranthene	21.120	252	219460	4.30	ppm	99
30) Benzo[k]fluoranthene	21.162	252	201152	4.12	ppm	99
31) Benzo[a]pyrene	21.575	252	192124	4.13	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.117	276	236117	4.31	ppm	100
33) Dibenz[a,h]anthracene	23.158	278	193986	4.26	ppm	96
34) Benzo[g,h,i]perylene	23.516	276	204909	4.34	ppm	100
36) 1,4-Dioxane	2.288	88	19058	4.44	ppm	86
37) 1-Methylnaphthalene	9.834	142	82152	4.92	ppm	100
39) 4,6-dinitro-2-methylph...	13.003	198	117585	23.28	ppm #	59

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66188.D
Acq On : 21 Jun 2016 2:31 am
Operator : ashleyd
Sample : ic2974-5.0
Misc : op94799a,e4m2974
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 07:53:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	142303	3.80	ppm	97
41) n-nitrosodiphenylamine	13.122	169	99654	3.74	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

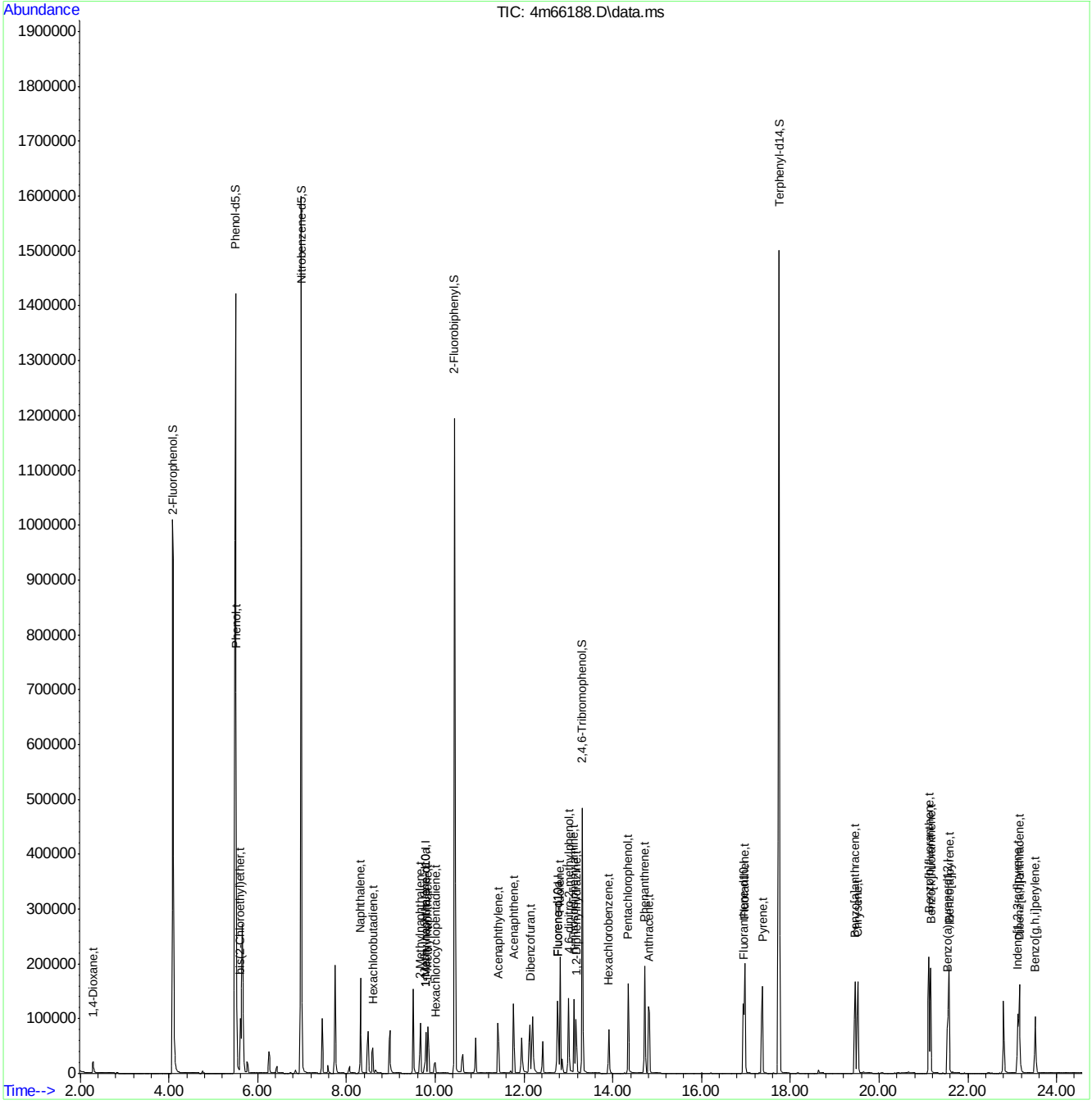
7.6.32

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66188.D
Acq On : 21 Jun 2016 2:31 am
Operator : ashleyd
Sample : ic2974-5.0
Misc : op94799a,e4m2974
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 07:53:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66189.D
Acq On : 21 Jun 2016 3:01 am
Operator : ashleyd
Sample : ic2974-2.5
Misc : op94799a,e4m2974
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 07:53:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	54074	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	100500	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	157255	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.533	264	125988	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	54074	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	100500	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.089	112	436515	50.37	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 100.74%#			
3) Phenol-d5	5.483	99	668228	47.96	ppm	0.00
Spiked Amount 50.000			Recovery = 95.92%			
6) Nitrobenzene-d5	6.968	82	590009	48.76	ppm	0.00
Spiked Amount 50.000			Recovery = 97.52%			
11) 2-Fluorobiphenyl	10.430	172	966520	44.19	ppm	0.00
Spiked Amount 50.000			Recovery = 88.38%			
17) 2,4,6-Tribromophenol	13.313	330	225826	43.13	ppm	0.00
Spiked Amount 50.000			Recovery = 86.26%			
25) Terphenyl-d14	17.749	244	1074721	43.06	ppm	0.00
Spiked Amount 50.000			Recovery = 86.12%			
Target Compounds						Qvalue
4) Phenol	5.511	94	184009	12.46	ppm	92
5) bis(2-Chloroethyl)ether	5.607	93	27900	2.36	ppm	82
7) Naphthalene	8.314	128	95674	2.50	ppm	99
8) Hexachlorobutadiene	8.593	225	15922	2.50	ppm	98
9) 2-Methylnaphthalene	9.667	142	41641	2.52	ppm	100
10) Hexachlorocyclopentadiene	10.001	237	10207	9.10	ppm	99
13) Acenaphthylene	11.409	152	68190	2.30	ppm	99
14) Acenaphthene	11.764	153	42532	2.26	ppm	100
15) Dibenzofuran	12.141	168	60896	2.19	ppm	100
16) Fluorene	12.812	166	74454	2.22	ppm	97
18) Hexachlorobenzene	13.908	284	22746	2.17	ppm	97
19) Pentachlorophenol	14.341	266	51313	12.22	ppm	94
20) Phenanthrene	14.717	178	100400	2.23	ppm	99
21) Anthracene	14.811	178	93614	2.30	ppm	88
23) Fluoranthene	16.977	202	106922	2.14	ppm	99
24) Pyrene	17.372	202	107550	2.20	ppm	99
26) Benzo[a]anthracene	19.462	228	86425	2.09	ppm	99
27) Chrysene	19.518	228	89562	2.14	ppm	98
29) Benzo[b]fluoranthene	21.120	252	103181	2.22	ppm	99
30) Benzo[k]fluoranthene	21.148	252	98042	2.21	ppm	88
31) Benzo[a]pyrene	21.575	252	92339	2.19	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.117	276	110721	2.22	ppm	100
33) Dibenz[a,h]anthracene	23.158	278	91992	2.22	ppm	97
34) Benzo[g,h,i]perylene	23.516	276	97040	2.26	ppm	100
36) 1,4-Dioxane	2.288	88	8751	2.24	ppm	78
37) 1-Methylnaphthalene	9.834	142	40647	2.67	ppm	97
39) 4,6-dinitro-2-methylph...	13.003	198	61494	14.33	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66189.D
Acq On : 21 Jun 2016 3:01 am
Operator : ashleyd
Sample : ic2974-2.5
Misc : op94799a,e4m2974
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 07:53:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	74229	2.34 ppm	99
41) n-nitrosodiphenylamine	13.122	169	54024	2.39 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.33

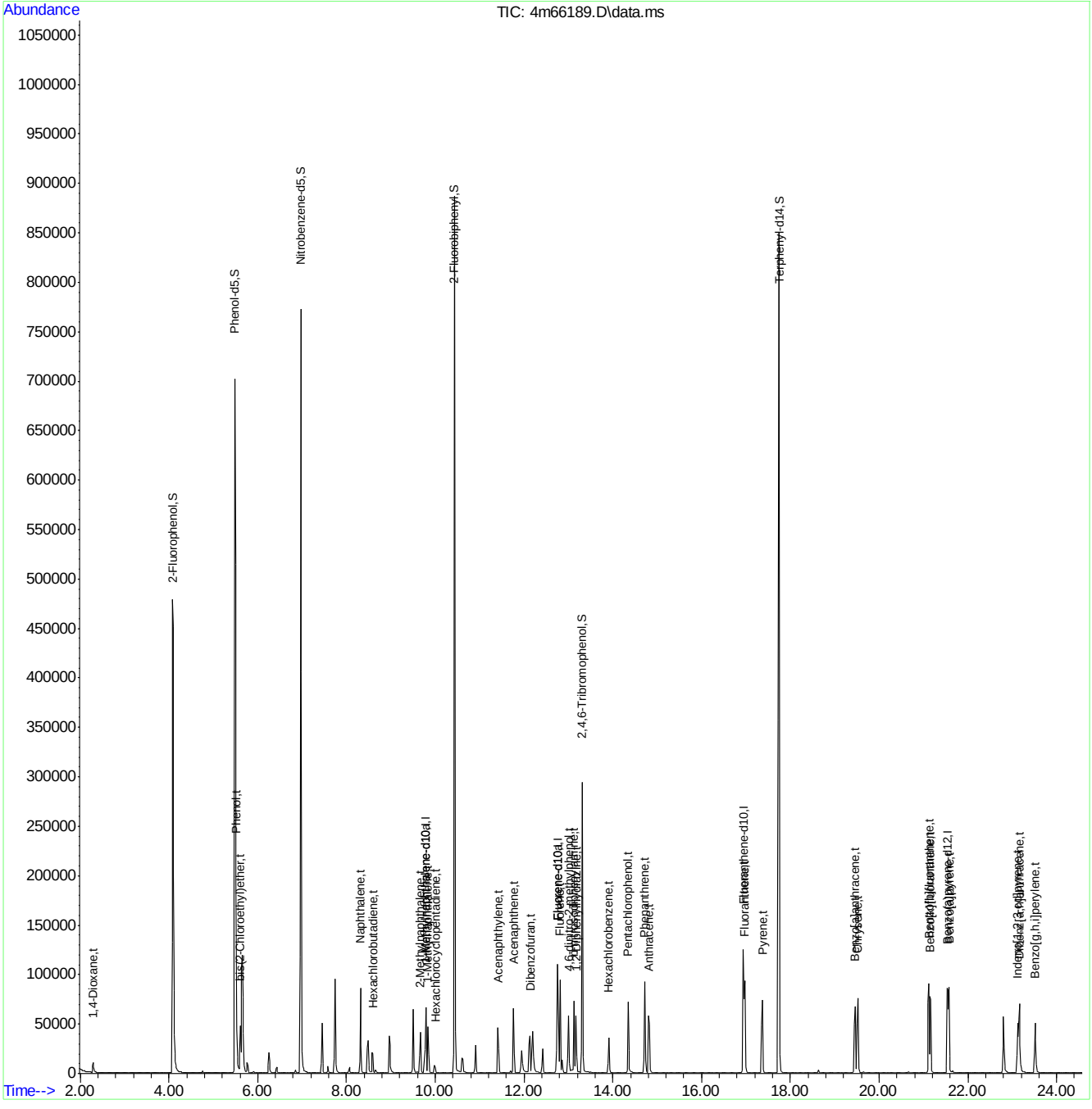
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66189.D
Acq On : 21 Jun 2016 3:01 am
Operator : ashleyd
Sample : ic2974-2.5
Misc : op94799a,e4m2974
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 07:53:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66190.D
Acq On : 21 Jun 2016 3:30 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:27:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	66763	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	117196	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	179820	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.534	264	128092	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	66763	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	117196	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
3) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
6) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
17) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
5) bis(2-Chloroethyl)ether	5.607	93	12366	0.97	ppm	96
7) Naphthalene	8.314	128	44242	0.95	ppm	99
8) Hexachlorobutadiene	8.577	225	7565	0.95	ppm	72
9) 2-Methylnaphthalene	9.667	142	17698	0.80	ppm	98
10) Hexachlorocyclopentadiene	10.001	237	979	0.91	ppm	97
13) Acenaphthylene	11.409	152	29207	0.94	ppm	99
14) Acenaphthene	11.764	153	18887	0.98	ppm	99
15) Dibenzofuran	12.141	168	27377	0.87	ppm	100
16) Fluorene	12.812	166	31615	0.91	ppm	98
18) Hexachlorobenzene	13.908	284	10114	0.87	ppm	97
20) Phenanthrene	14.717	178	43334	0.93	ppm	99
21) Anthracene	14.812	178	37045	0.86	ppm	88
23) Fluoranthene	16.977	202	44839	0.85	ppm	98
24) Pyrene	17.372	202	44548	0.87	ppm	99
26) Benzo[a]anthracene	19.462	228	35984	0.81	ppm	99
27) Chrysene	19.519	228	36630	0.79	ppm	98
29) Benzo[b]fluoranthene	21.121	252	37951	0.85	ppm	98
30) Benzo[k]fluoranthene	21.162	252	38594	0.90	ppm	97
31) Benzo[a]pyrene	21.575	252	36802	0.92	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.117	276	43358	0.92	ppm	99
33) Dibenz[a,h]anthracene	23.158	278	35154	0.90	ppm	99
34) Benzo[g,h,i]perylene	23.516	276	36971	0.90	ppm	100
36) 1,4-Dioxane	2.299	88	3790	0.82	ppm	87
40) 1,2-Diphenylhydrazine	13.170	77	28295	0.87	ppm	100
41) n-nitrosodiphenylamine	13.122	169	20254	0.88	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66190.D
Acq On : 21 Jun 2016 3:30 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:27:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.34

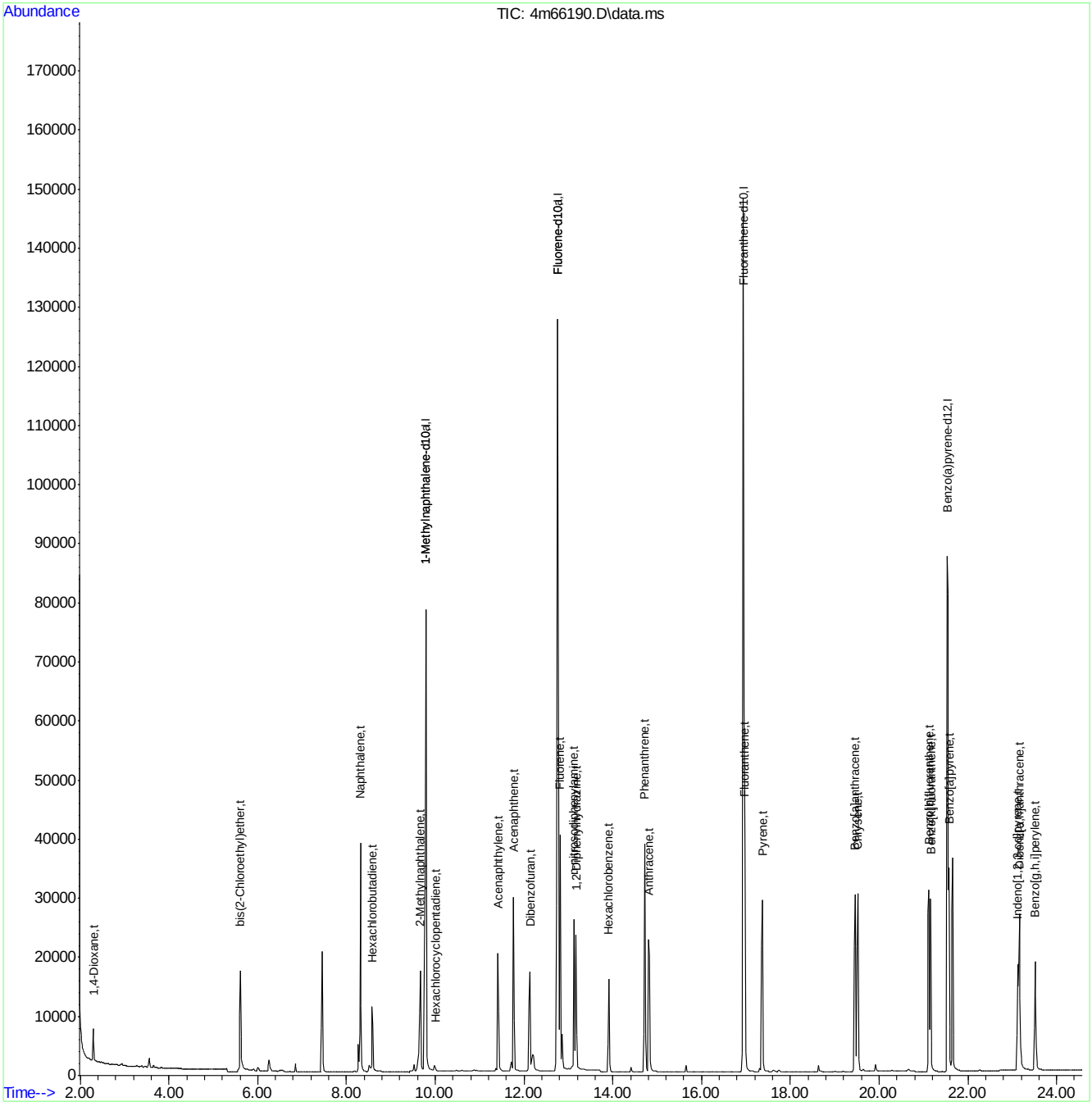
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66190.D
Acq On : 21 Jun 2016 3:30 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:27:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66191.D
Acq On : 21 Jun 2016 4:00 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 21 08:06:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	50054	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	78597	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	127549	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.533	264	101417	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	50054	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	78597	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
3) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
6) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
17) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
4) Phenol	5.511	94	69922	5.14	ppm	85
19) Pentachlorophenol	14.341	266	16205	5.66	ppm	99
39) 4,6-dinitro-2-methylph...	13.003	198	18235	4.84	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.35

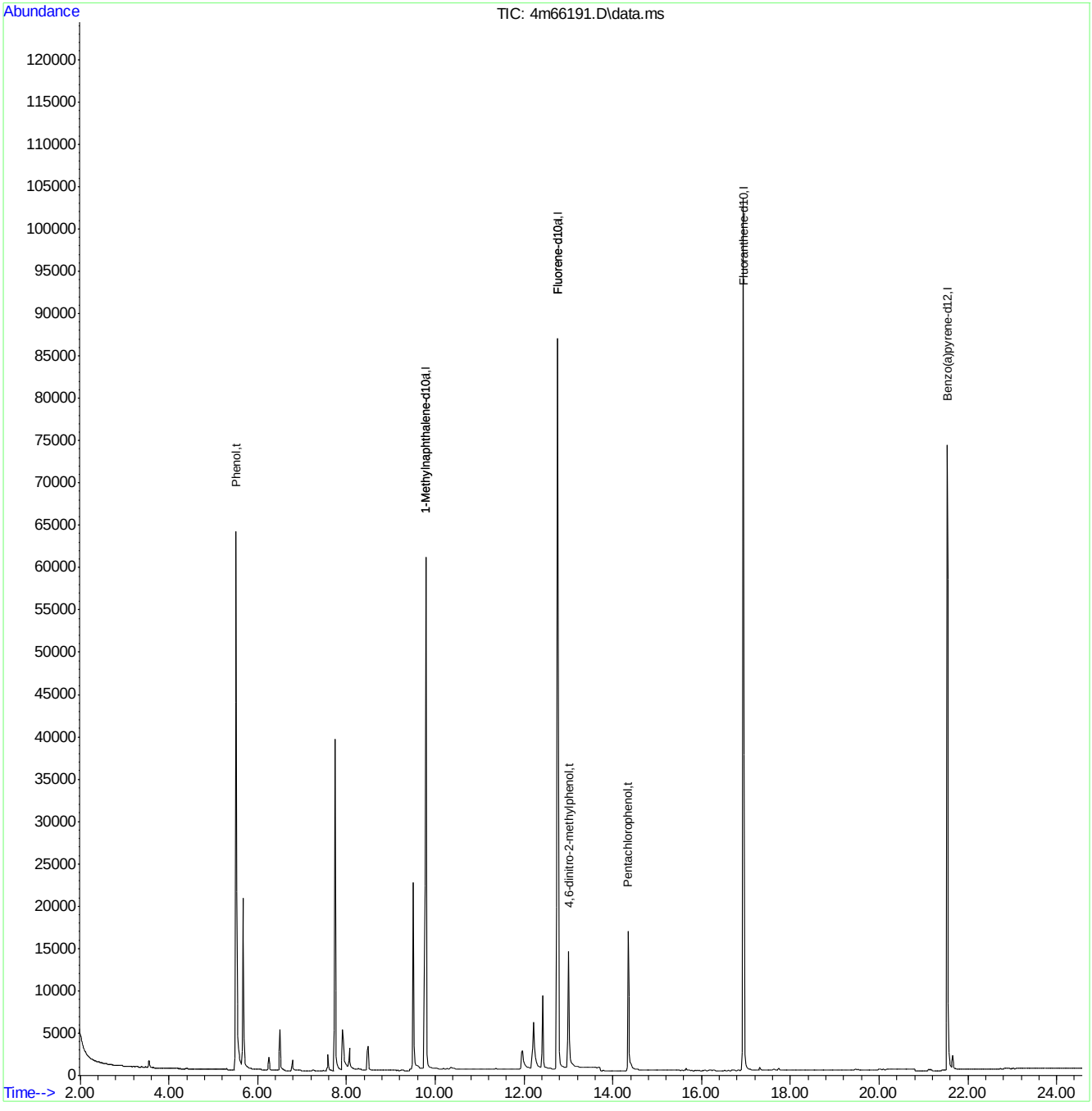
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66191.D
Acq On : 21 Jun 2016 4:00 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 21 08:06:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



M4M2974SIM.M Tue Jun 21 14:09:06 2016 MANAGER

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2998\
Data File : 4m66646.D
Acq On : 6 Jul 2016 10:35 pm
Operator : JULIUSJ
Sample : CC2974-1.0
Misc : op95136a,e4m2998
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:45:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.691	152	48573	4.00	ppm		#-0.10
12) Fluorene-d10	12.674	176	59092	4.00	ppm		-0.09
22) Fluoranthene-d10	16.859	212	126723	4.00	ppm		-0.08
28) Benzo(a)pyrene-d12	21.460	264	105162	4.00	ppm		-0.06
35) 1-Methylnaphthalene-d10a	9.691	152	48573	4.00	ppm		#-0.10
38) Fluorene-d10a	12.674	176	59092	4.00	ppm		-0.09
System Monitoring Compounds							
2) 2-Fluorophenol	4.090	112	123427	15.95	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 31.90%				
3) Phenol-d5	5.539	99	199511	16.35	ppm		0.05
Spiked Amount 50.000			Recovery = 32.70%				
6) Nitrobenzene-d5	6.907	82	185216	17.06	ppm		-0.06
Spiked Amount 50.000			Recovery = 34.12%				
11) 2-Fluorobiphenyl	10.359	172	268216	13.72	ppm		-0.07
Spiked Amount 50.000			Recovery = 27.44%				
17) 2,4,6-Tribromophenol	13.242	330	61755	22.42	ppm		-0.07
Spiked Amount 50.000			Recovery = 44.84%				
25) Terphenyl-d14	17.668	244	377568	21.10	ppm		-0.08
Spiked Amount 50.000			Recovery = 42.20%				
Target Compounds							Qvalue
4) Phenol	5.552	94	54535	4.13	ppm		71
5) bis(2-Chloroethyl)ether	5.539	93	8224	0.88	ppm	#	56
7) Naphthalene	8.237	128	27642	0.82	ppm		98
8) Hexachlorobutadiene	8.500	225	4938	0.85	ppm		91
9) 2-Methylnaphthalene	9.571	142	39546	2.46	ppm		99
10) Hexachlorocyclopentadiene	9.906	237	3093	2.34	ppm		88
13) Acenaphthylene	11.338	152	22195	1.42	ppm		92
14) Acenaphthene	11.675	153	12051	1.24	ppm		96
15) Dibenzofuran	12.052	168	19668	1.24	ppm		100
16) Fluorene	12.718	166	12917	0.74	ppm		73
18) Hexachlorobenzene	13.809	284	6907	1.18	ppm		88
19) Pentachlorophenol	14.298	266	10414	4.84	ppm		85
20) Phenanthrene	14.637	178	29213	1.24	ppm		96
21) Anthracene	14.731	178	26772	1.23	ppm		92
23) Fluoranthene	16.897	202	33093	0.89	ppm		99
24) Pyrene	17.292	202	31700	0.88	ppm		100
26) Benzo[a]anthracene	19.382	228	27026	0.86	ppm	#	85
27) Chrysene	19.438	228	28348	0.87	ppm		100
29) Benzo[b]fluoranthene	21.033	252	32784	0.90	ppm		96
30) Benzo[k]fluoranthene	21.074	252	29552	0.84	ppm		96
31) Benzo[a]pyrene	21.501	252	28560	0.87	ppm		92
32) Indeno[1,2,3-cd]pyrene	23.029	276	34658	0.90	ppm		97
33) Dibenz[a,h]anthracene	23.057	278	29178	0.91	ppm		98
34) Benzo[g,h,i]perylene	23.415	276	30265	0.90	ppm		98
36) 1,4-Dioxane	2.236	88	3251	0.98	ppm	#	28
37) 1-Methylnaphthalene	9.762	142	14824	1.02	ppm	#	76
39) 4,6-dinitro-2-methylph...	12.955	198	11157	4.01	ppm		69

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2998\
Data File : 4m66646.D
Acq On : 6 Jul 2016 10:35 pm
Operator : JULIUSJ
Sample : CC2974-1.0
Misc : op95136a,e4m2998
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:45:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.075	77	17231	1.06 ppm	91
41) n-nitrosodiphenylamine	13.051	169	14991	1.29 ppm	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.36

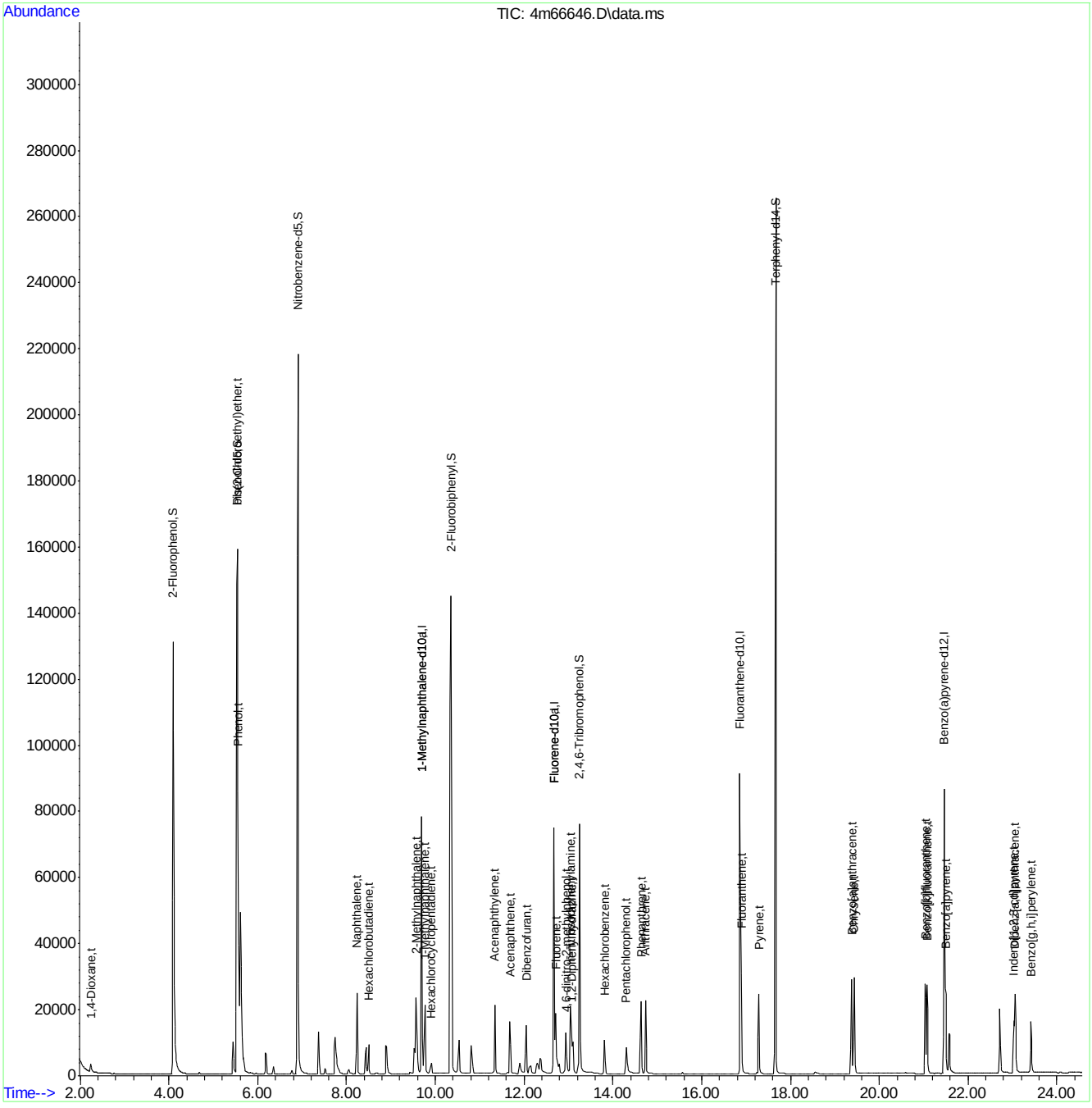
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2998\
Data File : 4m66646.D
Acq On : 6 Jul 2016 10:35 pm
Operator : JULIUSJ
Sample : CC2974-1.0
Misc : op95136a,e4m2998
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 07 08:45:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



M4M2974SIM.M Thu Jul 07 08:46:24 2016 MANAGER Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66741.D
Acq On : 9 Jul 2016 12:23 pm
Operator : ashleyd
Sample : cc2974-0.5
Misc : op95277a,e4m3003
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 09 12:51:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.667	152	33420	4.00	ppm		-0.02
12) Fluorene-d10	12.636	176	62873	4.00	ppm		-0.02
22) Fluoranthene-d10	16.826	212	110699	4.00	ppm		-0.02
28) Benzo(a)pyrene-d12	21.423	264	89278	4.00	ppm		-0.03
35) 1-Methylnaphthalene-d10a	9.667	152	33420	4.00	ppm		-0.02
38) Fluorene-d10a	12.636	176	62873	4.00	ppm		-0.02
System Monitoring Compounds							
2) 2-Fluorophenol	4.048	112	52267	9.81	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 19.62%				
3) Phenol-d5	5.470	99	85290	10.16	ppm		0.04
Spiked Amount 50.000			Recovery = 20.32%				
6) Nitrobenzene-d5	6.860	82	84838	11.36	ppm		-0.04
Spiked Amount 50.000			Recovery = 22.72%				
11) 2-Fluorobiphenyl	10.311	172	140383	10.44	ppm		-0.02
Spiked Amount 50.000			Recovery = 20.88%				
17) 2,4,6-Tribromophenol	13.185	330	26410	9.01	ppm		-0.02
Spiked Amount 50.000			Recovery = 18.02%				
25) Terphenyl-d14	17.617	244	184088	11.78	ppm		-0.03
Spiked Amount 50.000			Recovery = 23.56%				
Target Compounds							Qvalue
4) Phenol	5.497	94	23482	2.58	ppm		70
5) bis(2-Chloroethyl)ether	5.511	93	3938	0.61	ppm		75
7) Naphthalene	8.191	128	12335	0.53	ppm		99
8) Hexachlorobutadiene	8.454	225	2342	0.59	ppm		80
9) 2-Methylnaphthalene	9.548	142	6489	0.59	ppm		92
10) Hexachlorocyclopentadiene	9.858	237	860	1.26	ppm		73
13) Acenaphthylene	11.290	152	9368	0.56	ppm		96
14) Acenaphthene	11.631	153	5562	0.54	ppm		95
15) Dibenzofuran	12.008	168	9117	0.54	ppm		100
16) Fluorene	12.684	166	9484	0.51	ppm		97
18) Hexachlorobenzene	13.776	284	3340	0.54	ppm		90
20) Phenanthrene	14.586	178	14133	0.56	ppm		99
21) Anthracene	14.699	178	12533	0.54	ppm		100
23) Fluoranthene	16.845	202	15380	0.48	ppm		95
24) Pyrene	17.241	202	16527	0.52	ppm		95
26) Benzo[a]anthracene	19.330	228	15356	0.56	ppm	#	90
27) Chrysene	19.387	228	13757	0.48	ppm		90
29) Benzo[b]fluoranthene	20.997	252	14860	0.48	ppm		98
30) Benzo[k]fluoranthene	21.038	252	14662	0.49	ppm		98
31) Benzo[a]pyrene	21.451	252	13009	0.46	ppm		95
32) Indeno[1,2,3-cd]pyrene	22.966	276	16765	0.51	ppm		92
33) Dibenz[a,h]anthracene	23.007	278	14042	0.52	ppm		96
34) Benzo[g,h,i]perylene	23.351	276	14447	0.51	ppm		98
37) 1-Methylnaphthalene	9.715	142	6563	0.66	ppm		86
39) 4,6-dinitro-2-methylph...	12.899	198	4246	1.76	ppm	#	47
40) 1,2-Diphenylhydrazine	13.042	77	9160	0.53	ppm		99
41) n-nitrosodiphenylamine	13.018	169	5611	0.45	ppm	#	69

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66741.D
Acq On : 9 Jul 2016 12:23 pm
Operator : ashleyd
Sample : cc2974-0.5
Misc : op95277a,e4m3003
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 09 12:51:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

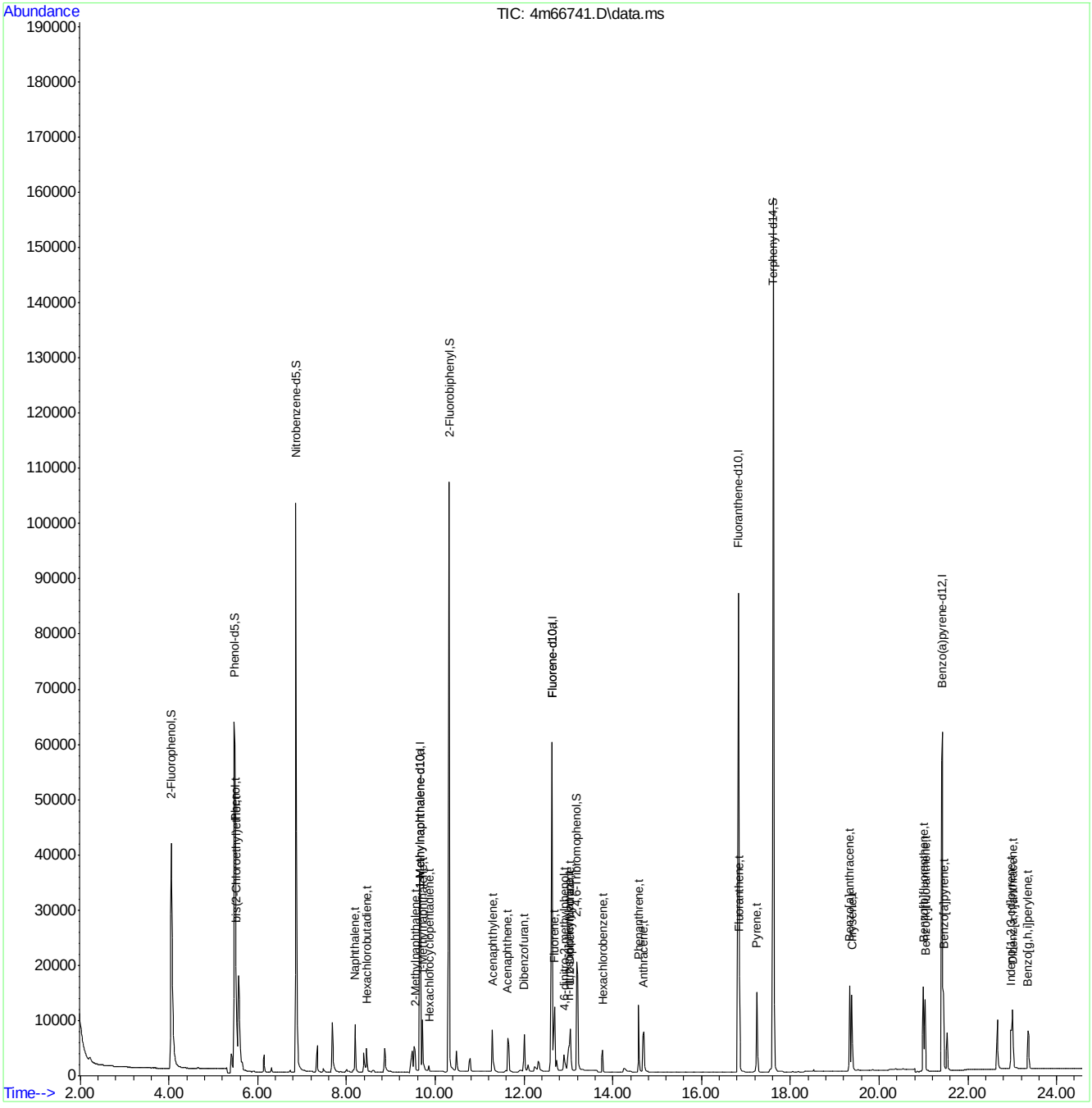
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66741.D
Acq On : 9 Jul 2016 12:23 pm
Operator : ashleyd
Sample : cc2974-0.5
Misc : op95277a,e4m3003
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 09 12:51:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16669.D
Acq On : 6 Jun 2016 10:09 am
Operator : linseyk
Sample : ic887-.5
Misc : op94376a,e4p887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 14:58:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.761	150	153971	4.00	ppm	-0.02
13) Fluorene-d10	10.709	176	270211	4.00	ppm	0.00
23) Fluoranthene-d10	14.903	212	351043	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.526	264	250702	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	223858	10.14	ppm	0.00
Spiked Amount 50.000			Recovery = 20.28%			
4) Phenol-d5	3.750	99	431626	11.02	ppm	0.00
Spiked Amount 50.000			Recovery = 22.04%			
7) Nitrobenzene-d5	5.081	82	280913	9.82	ppm	0.00
Spiked Amount 50.000			Recovery = 19.64%			
14) 2-Fluorobiphenyl	8.425	172	741019	14.76	ppm	0.00
Spiked Amount 50.000			Recovery = 29.52%			
22) 2,4,6-Tribromophenol	11.236	330	84025	12.73	ppm	0.00
Spiked Amount 50.000			Recovery = 25.46%			
30) Terphenyl-d14	15.764	244	505399	10.03	ppm	0.00
Spiked Amount 50.000			Recovery = 20.06%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.422	88	7232	0.61	ppm #	47
5) Phenol	3.768	94	110286	2.55	ppm #	90
6) bis(2-Chloroethyl)ether	3.854	93	17240	0.56	ppm #	73
8) Naphthalene	6.343	128	56010	0.54	ppm	97
9) Hexachlorobutadiene	6.648	225	9132	0.51	ppm	93
10) 2-Methylnaphthalene	7.646	141	27259	0.57	ppm	92
11) 1-Methylnaphthalene	7.829	141	35343	0.57	ppm	91
12) Hexachlorocyclopentadiene	8.013	237	12502	0.86	ppm	95
15) Acenaphthylene	9.365	152	56972	0.68	ppm	96
16) Acenaphthene	9.731	153	31936	0.54	ppm	92
17) Dibenzofuran	10.075	168	50345	0.66	ppm	83
18) Fluorene	10.758	166	37057	0.53	ppm	93
19) 4,6-dinitro-2-methylph...	10.957	198	10213	2.18	ppm	97
20) n-nitrosodiphenylamine	11.081	169	23017	0.70	ppm	89
21) 1,2-Diphenylhydrazine	11.131	77	36374	0.58	ppm	90
24) Hexachlorobenzene	11.840	284	10945	0.52	ppm #	68
25) Pentachlorophenol	12.287	266	19260	2.27	ppm	96
26) Phenanthrene	12.631	178	54274	0.50	ppm	98
27) Anthracene	12.717	178	50089	0.51	ppm	87
28) Fluoranthene	14.938	202	57572	0.52	ppm	98
29) Pyrene	15.333	202	57518	0.51	ppm	98
31) Benzo[a]anthracene	17.452	228	42623	0.51	ppm	91
32) Chrysene	17.510	228	48895	0.51	ppm	96
34) Benzo[b]fluoranthene	19.112	252	50063	0.54	ppm	97
35) Benzo[k]fluoranthene	19.147	252	41380	0.50	ppm	91
36) Benzo[a]pyrene	19.561	252	43937	0.54	ppm	97
37) Indeno[1,2,3-cd]pyrene	20.977	276	50056m	0.52	ppm	
38) Dibenz[a,h]anthracene	21.015	278	40869	0.53	ppm	98
39) Benzo[g,h,i]perylene	21.265	276	44005	0.53	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16669.D
Acq On : 6 Jun 2016 10:09 am
Operator : linseyk
Sample : ic887-.5
Misc : op94376a,e4p887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 14:58:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

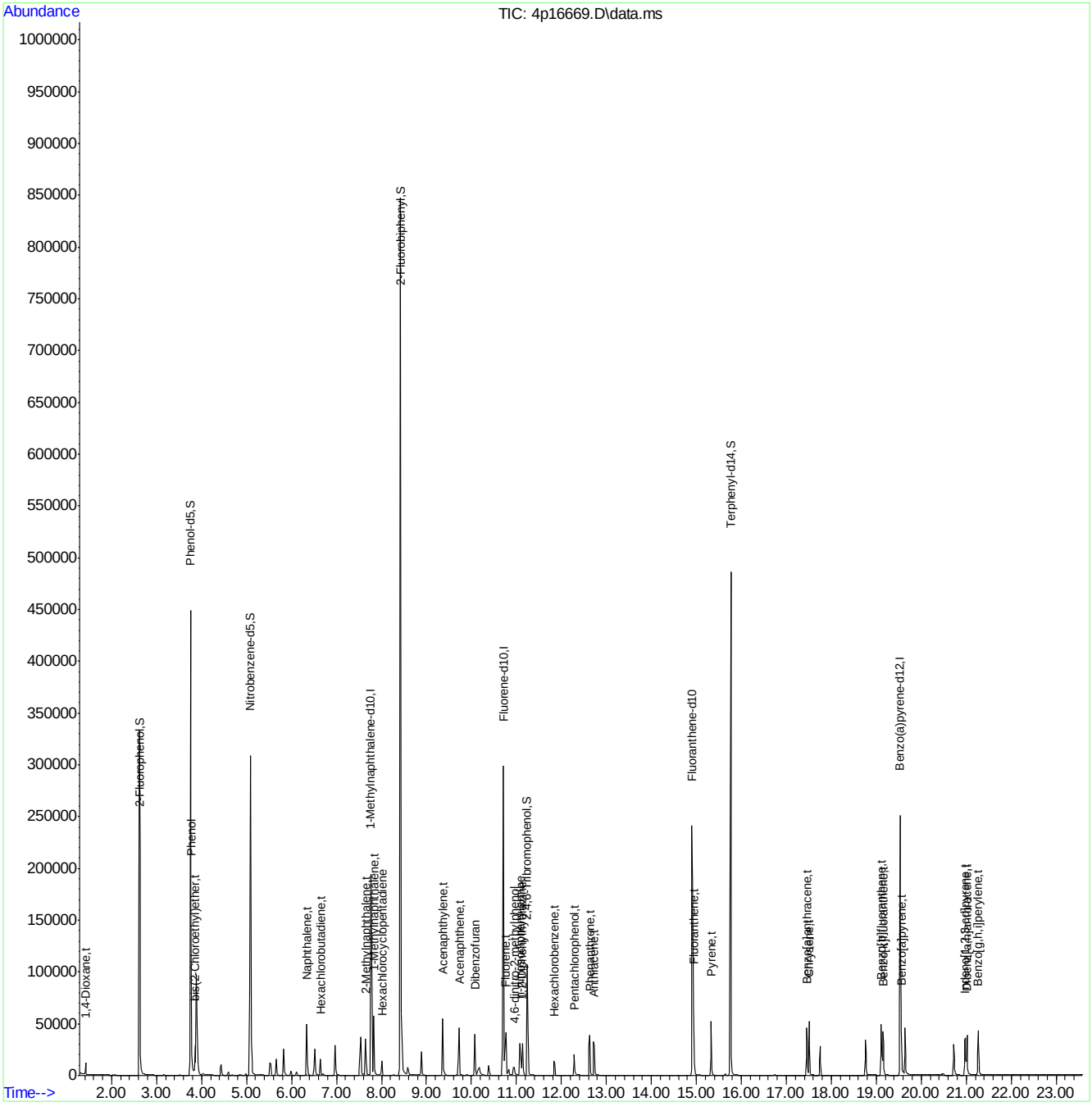
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16669.D
Acq On : 6 Jun 2016 10:09 am
Operator : linseyk
Sample : ic887-.5
Misc : op94376a,e4p887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 14:58:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



M4P887SIM.M Mon Jun 06 14:59:02 2016 Page: 3

Manual Integration Approval Summary

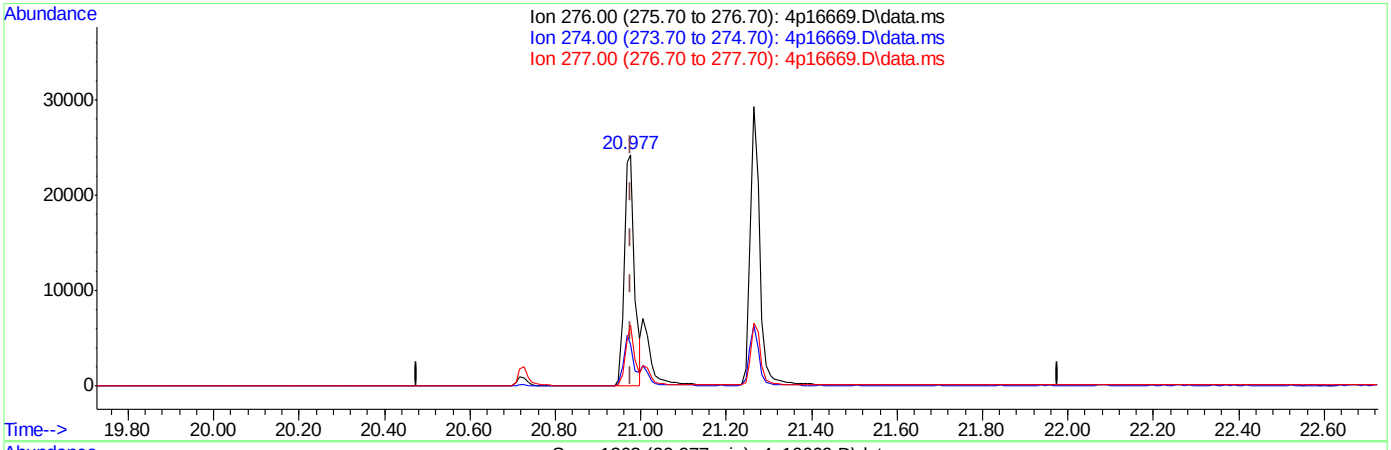
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16669.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 10:09	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

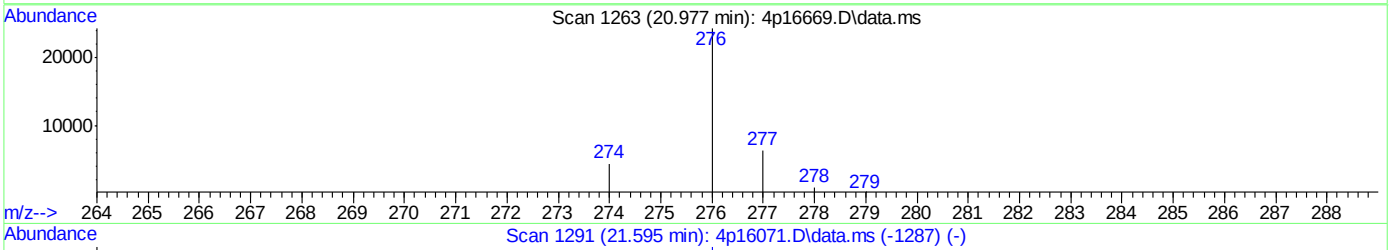
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.98	Split peak

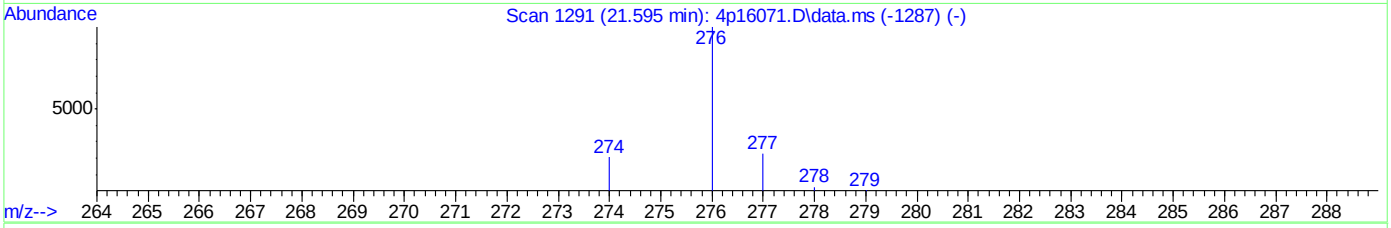
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16669.D
Acq On : 6 Jun 2016 10:09 am
Operator : linseyk
Sample : ic887-.5
Misc : op94376a,e4p887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 14:53:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16669.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.977min (+0.000) 0.41ppm

response 39745

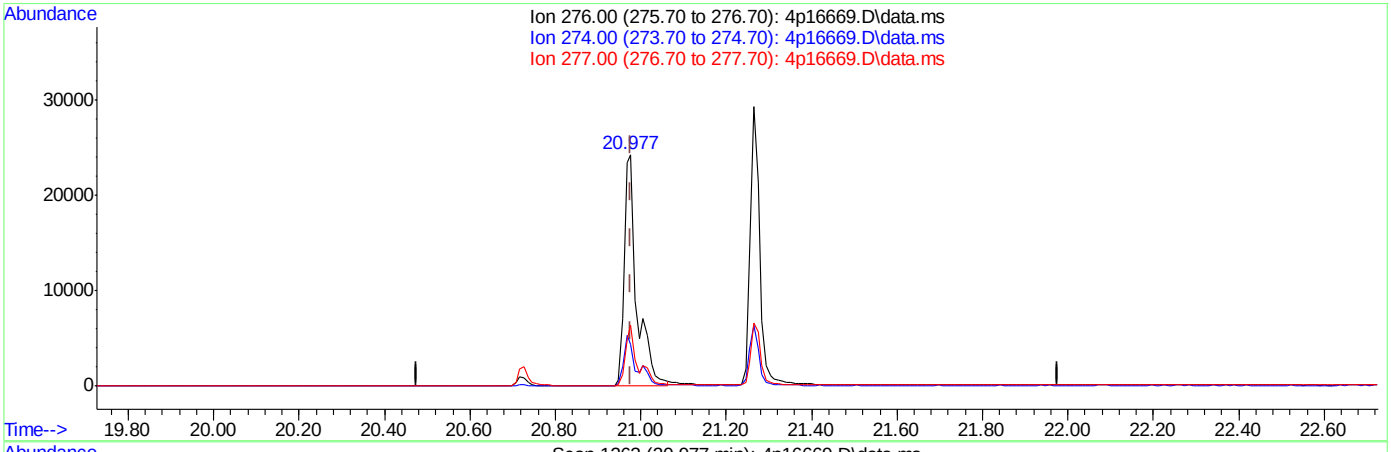
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	16.52
277.00	25.70	26.01
0.00	0.00	0.00

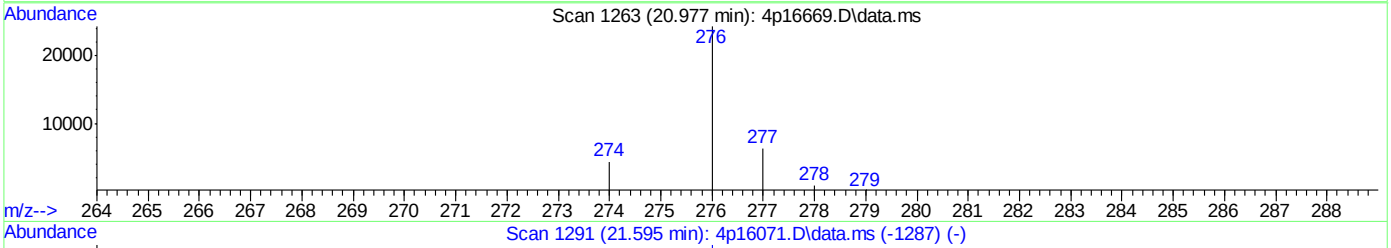
SGS ACCUTEST JC23443

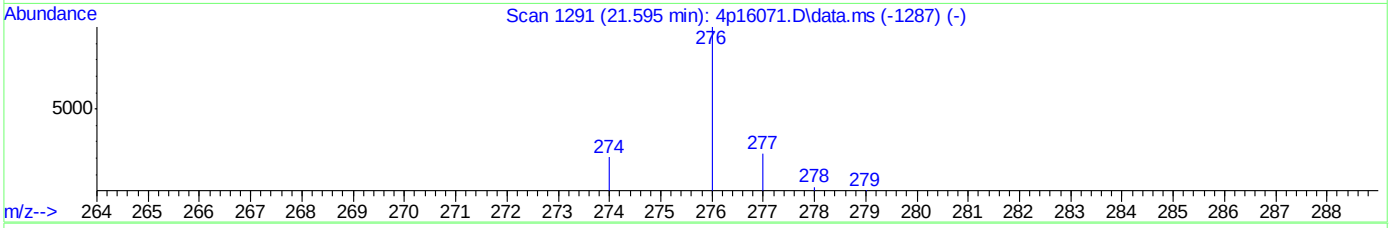
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16669.D
Acq On : 6 Jun 2016 10:09 am
Operator : linseyk
Sample : ic887-.5
Misc : op94376a,e4p887
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 06 14:53:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16669.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.977min (+0.000) 0.52ppm m

response 50056

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	17.88
277.00	25.70	26.32
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16670.D
Acq On : 6 Jun 2016 10:50 am
Operator : linseyk
Sample : icc887-1
Misc : op94376a,e4p887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 14:59:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.783	150	136500	4.00	ppm	0.00
13) Fluorene-d10	10.709	176	284719	4.00	ppm	0.00
23) Fluoranthene-d10	14.920	212	320892	4.00	ppm	0.00
33) Benzo(a)pyrene-d12	19.526	264	229091	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	391348	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
4) Phenol-d5	3.750	99	694640	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
7) Nitrobenzene-d5	5.081	82	507125	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
14) 2-Fluorobiphenyl	8.425	172	1057858	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
22) 2,4,6-Tribromophenol	11.236	330	139073	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
30) Terphenyl-d14	15.764	244	921642	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.421	88	10560	1.00	ppm	100
5) Phenol	3.767	94	191913	5.00	ppm	100
6) bis(2-Chloroethyl)ether	3.853	93	27239	1.00	ppm	100
8) Naphthalene	6.343	128	91410	1.00	ppm	100
9) Hexachlorobutadiene	6.648	225	15791	1.00	ppm	100
10) 2-Methylnaphthalene	7.646	141	42437	1.00	ppm	100
11) 1-Methylnaphthalene	7.829	141	54825	1.00	ppm	100
12) Hexachlorocyclopentadiene	8.013	237	25756	2.00	ppm	100
15) Acenaphthylene	9.365	152	88156	1.00	ppm	100
16) Acenaphthene	9.731	153	62653	1.00	ppm	100
17) Dibenzofuran	10.075	168	80165	1.00	ppm	100
18) Fluorene	10.758	166	74135	1.00	ppm	100
19) 4,6-dinitro-2-methylph...	10.957	198	24665	5.00	ppm	100
20) n-nitrosodiphenylamine	11.081	169	34488	1.00	ppm	100
21) 1,2-Diphenylhydrazine	11.131	77	65796	1.00	ppm	100
24) Hexachlorobenzene	11.857	284	19156	1.00	ppm	100
25) Pentachlorophenol	12.287	266	38855	5.00	ppm	100
26) Phenanthrene	12.631	178	98291	1.00	ppm	100
27) Anthracene	12.735	178	90621	1.00	ppm	100
28) Fluoranthene	14.938	202	101901	1.00	ppm	100
29) Pyrene	15.333	202	102940	1.00	ppm	100
31) Benzo[a]anthracene	17.462	228	76163	1.00	ppm	100
32) Chrysene	17.510	228	87069	1.00	ppm	100
34) Benzo[b]fluoranthene	19.112	252	84877	1.00	ppm	100
35) Benzo[k]fluoranthene	19.158	252	75867	1.01	ppm	100
36) Benzo[a]pyrene	19.561	252	72834	0.98	ppm	100
37) Indeno[1,2,3-cd]pyrene	20.977	276	86544m	0.99	ppm	
38) Dibenz[a,h]anthracene	21.015	278	70718	1.00	ppm	100
39) Benzo[g,h,i]perylene	21.265	276	76199	1.00	ppm	100

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16670.D
Acq On : 6 Jun 2016 10:50 am
Operator : linseyk
Sample : icc887-1
Misc : op94376a,e4p887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 14:59:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

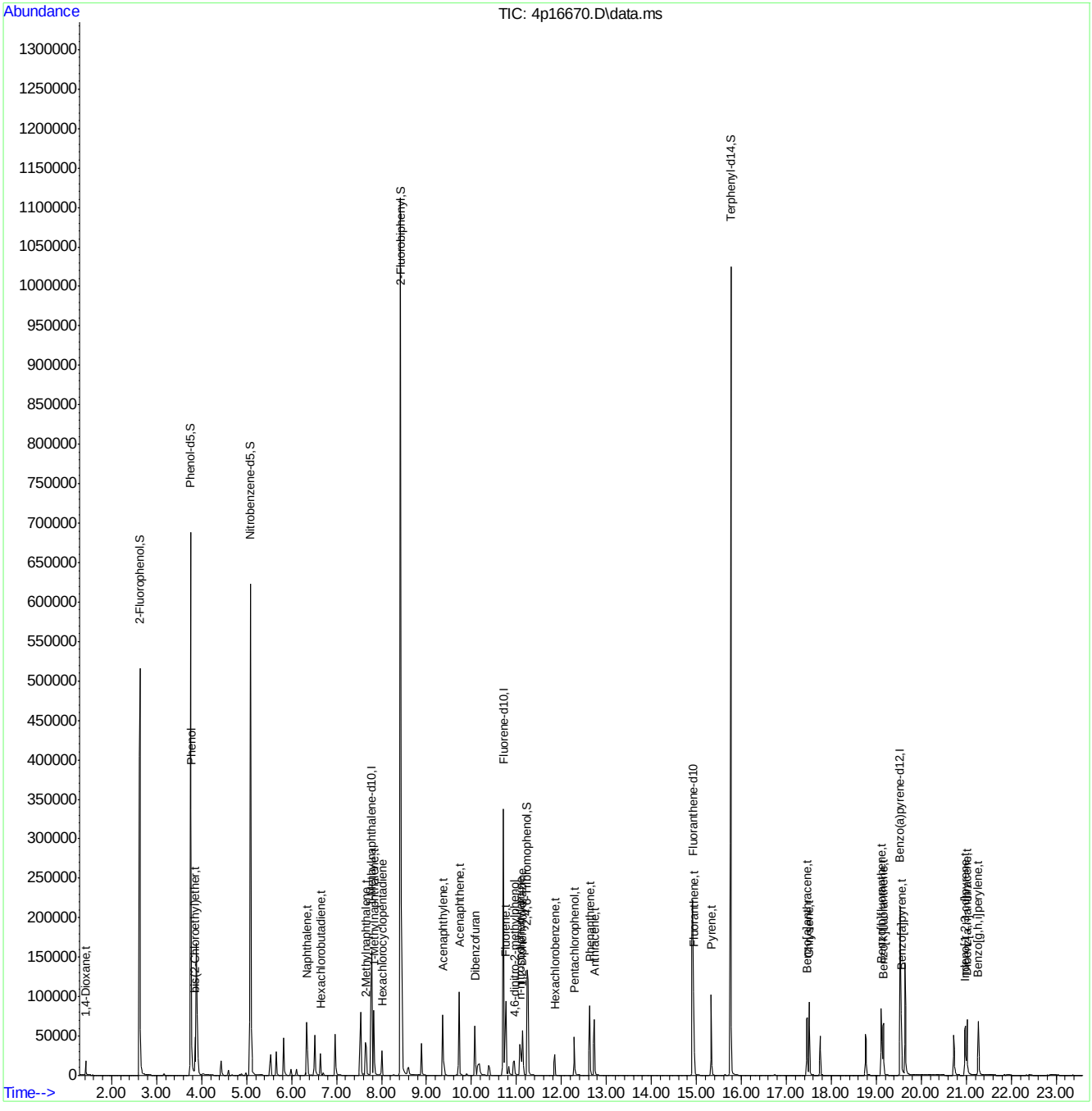
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16670.D
Acq On : 6 Jun 2016 10:50 am
Operator : linseyk
Sample : icc887-1
Misc : op94376a,e4p887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 14:59:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integration Approval Summary

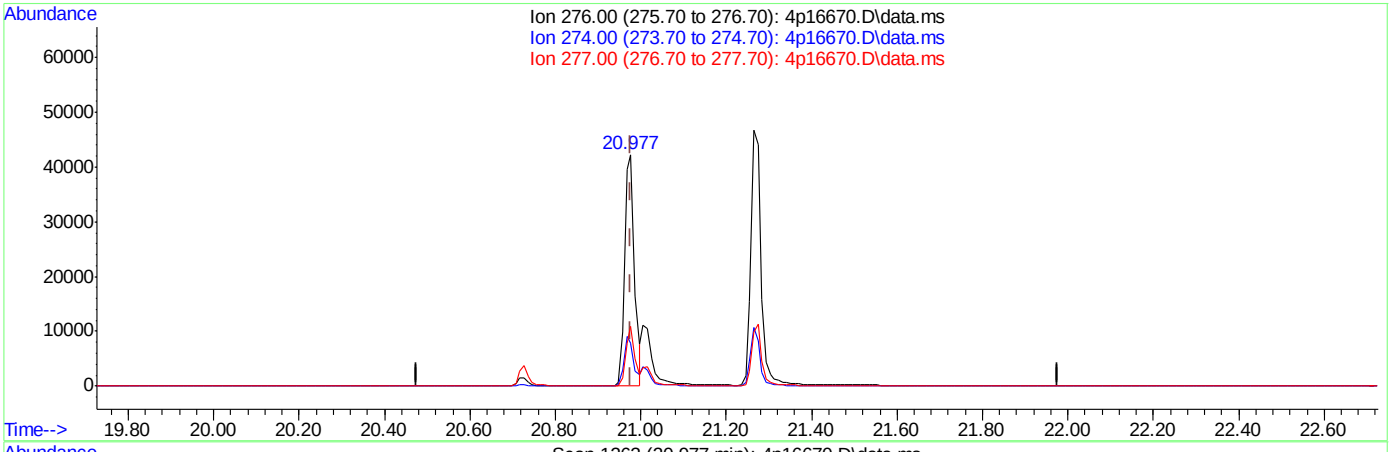
Sample Number:	E4P887-ICC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16670.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 10:50	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

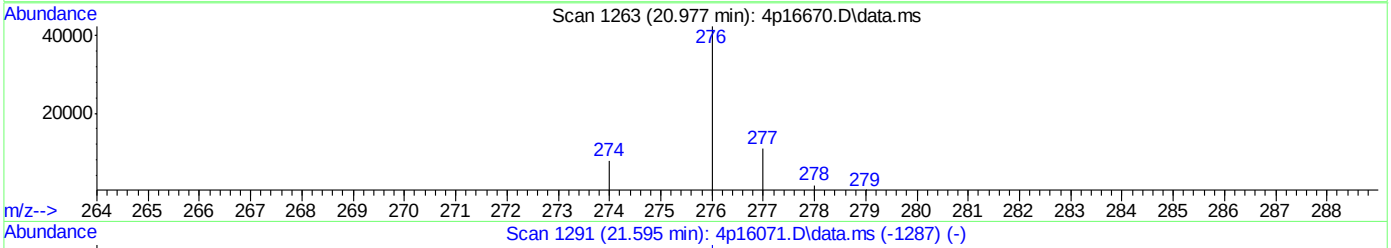
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.98	Split peak

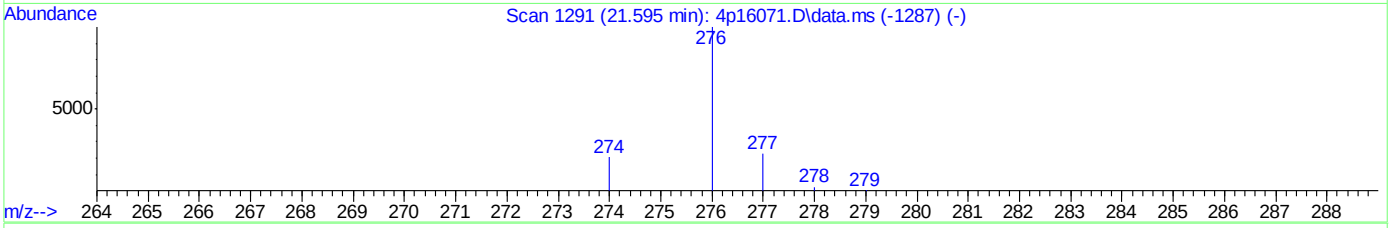
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16670.D
Acq On : 6 Jun 2016 10:50 am
Operator : linseyk
Sample : icc887-1
Misc : op94376a,e4p887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 14:54:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16670.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.977min (0.000) 0.77ppm

response 67074

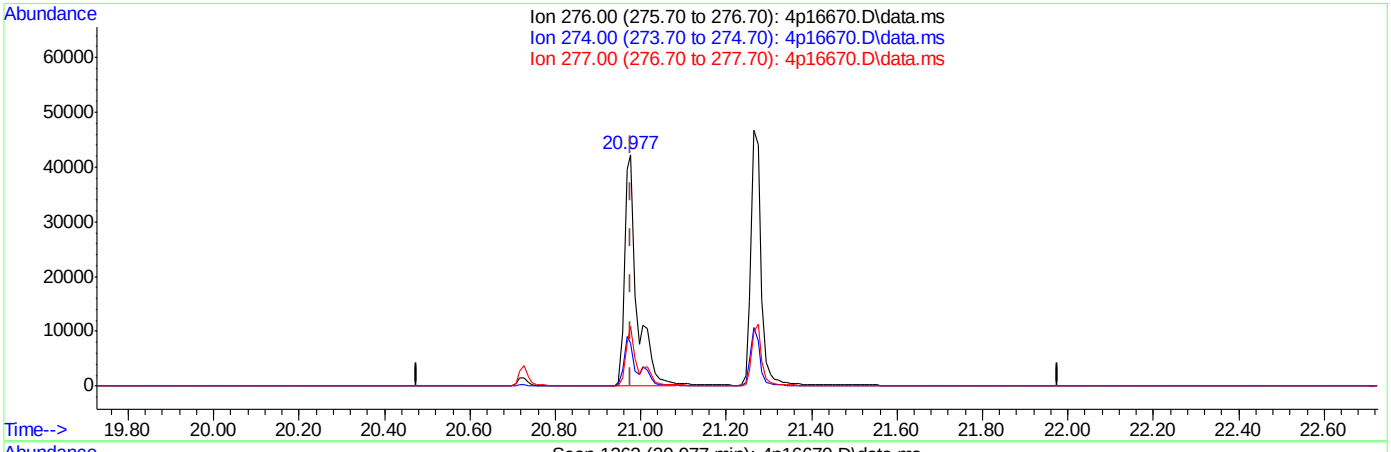
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	17.43
277.00	25.70	25.44
0.00	0.00	0.00

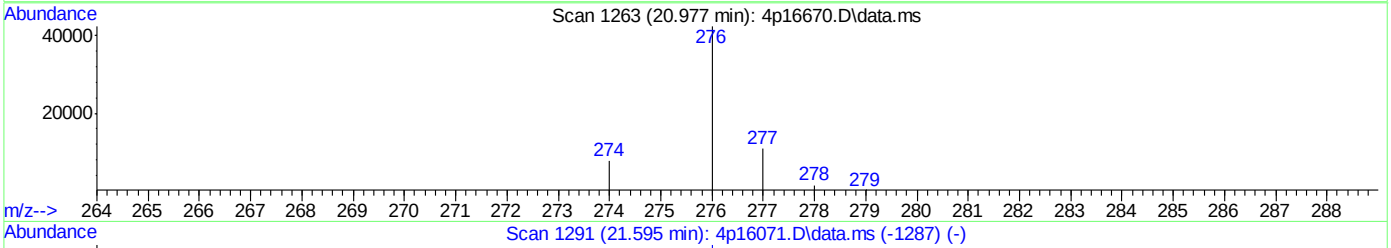
SGS ACCUTEST JC23443

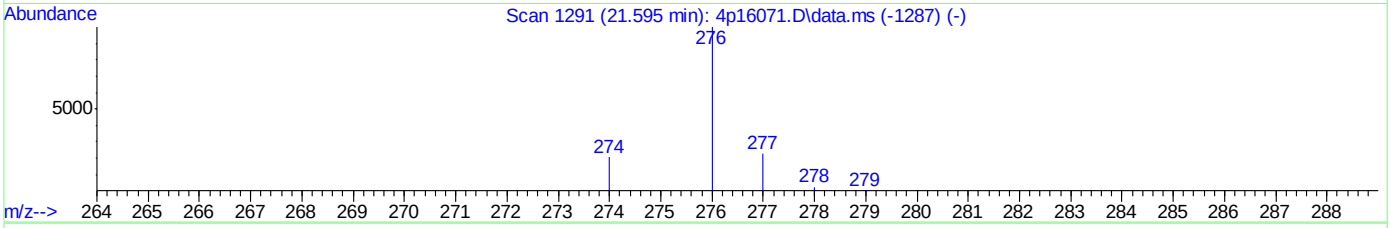
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16670.D
Acq On : 6 Jun 2016 10:50 am
Operator : linseyk
Sample : icc887-1
Misc : op94376a,e4p887
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 06 14:54:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16670.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.977min (0.000) 0.99ppm m

response 86544

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	18.34
277.00	25.70	25.74
0.00	0.00	0.00

SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16671.D
Acq On : 6 Jun 2016 11:20 am
Operator : linseyk
Sample : ic887-.2
Misc : op94376a,e4p887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 15:00:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.762	150	141449	4.00	ppm	-0.02
13) Fluorene-d10	10.711	176	234168	4.00	ppm	0.00
23) Fluoranthene-d10	14.918	212	342226	4.00	ppm	0.00
33) Benzo(a)pyrene-d12	19.524	264	247365	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	88312	4.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.72%	
4) Phenol-d5	3.750	99	156719	4.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.70%	
7) Nitrobenzene-d5	5.083	82	97994	3.73	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.46%	
14) 2-Fluorobiphenyl	8.427	172	305481	7.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	14.04%	
22) 2,4,6-Tribromophenol	11.234	330	26953	4.71	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.42%	
30) Terphenyl-d14	15.762	244	197256	4.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.02%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.422	88	2120	0.19	ppm	83
5) Phenol	3.768	94	40539	1.02	ppm	96
6) bis(2-Chloroethyl)ether	3.854	93	5442	0.19	ppm	92
8) Naphthalene	6.344	128	20563	0.22	ppm	96
9) Hexachlorobutadiene	6.650	225	3170	0.19	ppm	90
10) 2-Methylnaphthalene	7.648	141	10993	0.25	ppm	86
11) 1-Methylnaphthalene	7.831	141	13795	0.24	ppm	85
12) Hexachlorocyclopentadiene	8.015	237	2868	0.21	ppm	95
15) Acenaphthylene	9.367	152	20610	0.28	ppm	95
16) Acenaphthene	9.733	153	10559	0.20	ppm	89
17) Dibenzofuran	10.077	168	22538	0.34	ppm	89
18) Fluorene	10.760	166	12692	0.21	ppm	92
19) 4,6-dinitro-2-methylph...	10.959	198	2416	0.60	ppm	82
20) n-nitrosodiphenylamine	11.083	169	7579	0.27	ppm	90
21) 1,2-Diphenylhydrazine	11.129	77	11638	0.22	ppm	97
24) Hexachlorobenzene	11.855	284	4162	0.20	ppm	98
25) Pentachlorophenol	12.285	266	5371	0.65	ppm	100
26) Phenanthrene	12.629	178	19392	0.18	ppm	100
27) Anthracene	12.733	178	16834	0.17	ppm	99
28) Fluoranthene	14.936	202	21513	0.20	ppm	99
29) Pyrene	15.331	202	20291	0.18	ppm	99
31) Benzo[a]anthracene	17.450	228	13633	0.17	ppm	89
32) Chrysene	17.508	228	17473	0.19	ppm	98
34) Benzo[b]fluoranthene	19.110	252	16740	0.18	ppm	99
35) Benzo[k]fluoranthene	19.145	252	15342	0.19	ppm	86
36) Benzo[a]pyrene	19.559	252	16315	0.20	ppm	99
37) Indeno[1,2,3-cd]pyrene	20.975	276	18033m	0.19	ppm	
38) Dibenz[a,h]anthracene	21.013	278	14607	0.19	ppm	99
39) Benzo[g,h,i]perylene	21.263	276	16723	0.20	ppm	100

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16671.D
Acq On : 6 Jun 2016 11:20 am
Operator : linseyk
Sample : ic887-.2
Misc : op94376a,e4p887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 15:00:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

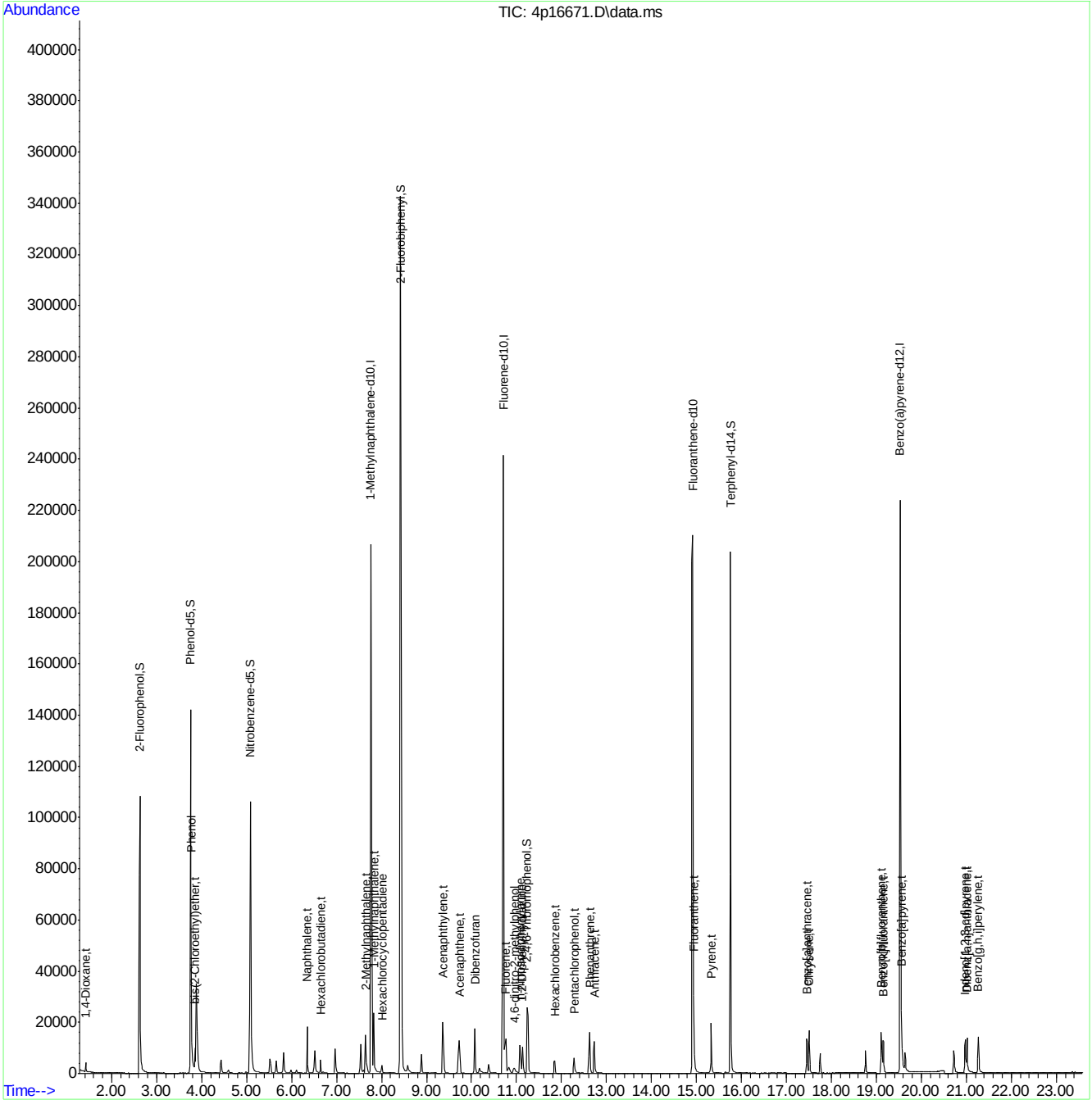
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16671.D
Acq On : 6 Jun 2016 11:20 am
Operator : linseyk
Sample : ic887-.2
Misc : op94376a,e4p887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 15:00:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integration Approval Summary

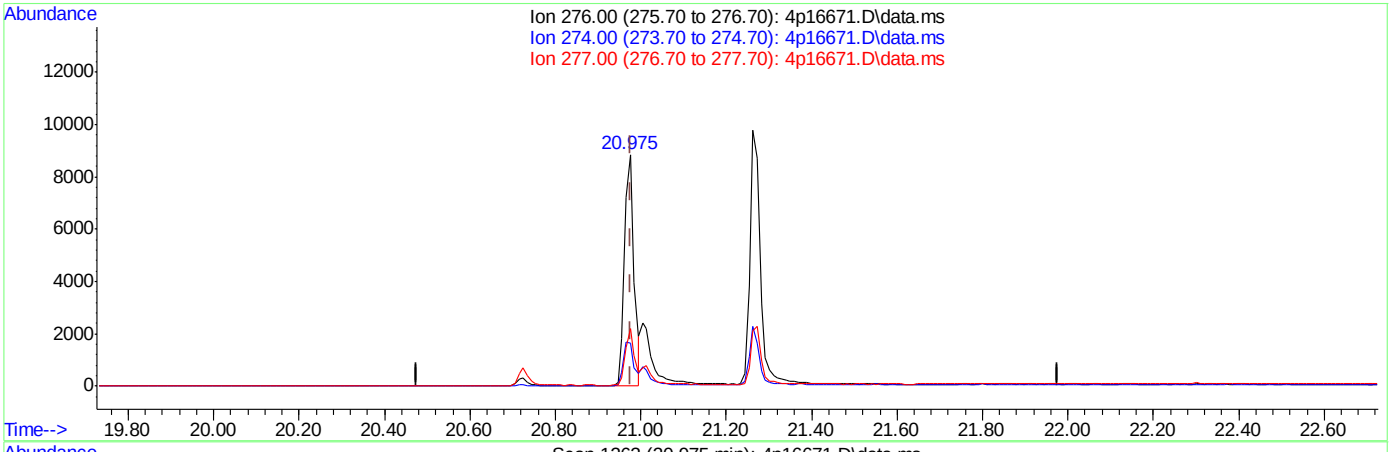
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16671.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 11:20	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

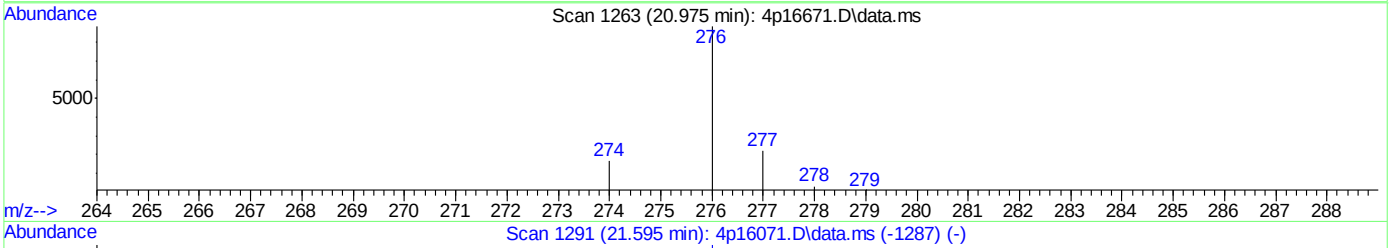
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

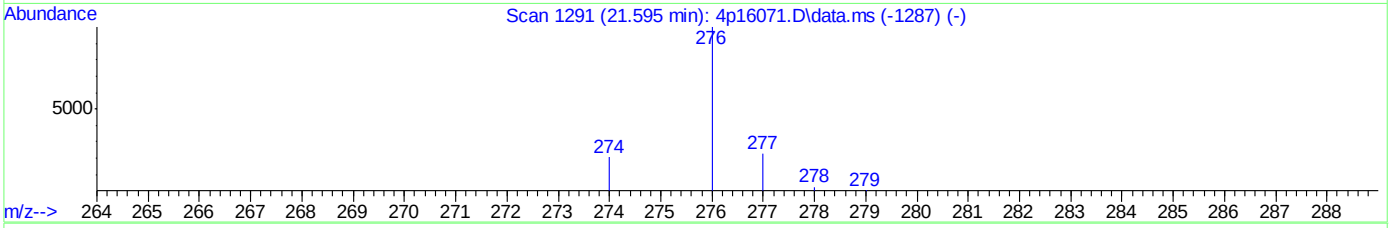
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16671.D
Acq On : 6 Jun 2016 11:20 am
Operator : linseyk
Sample : ic887-.2
Misc : op94376a,e4p887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 14:54:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16671.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.14ppm

response 13642

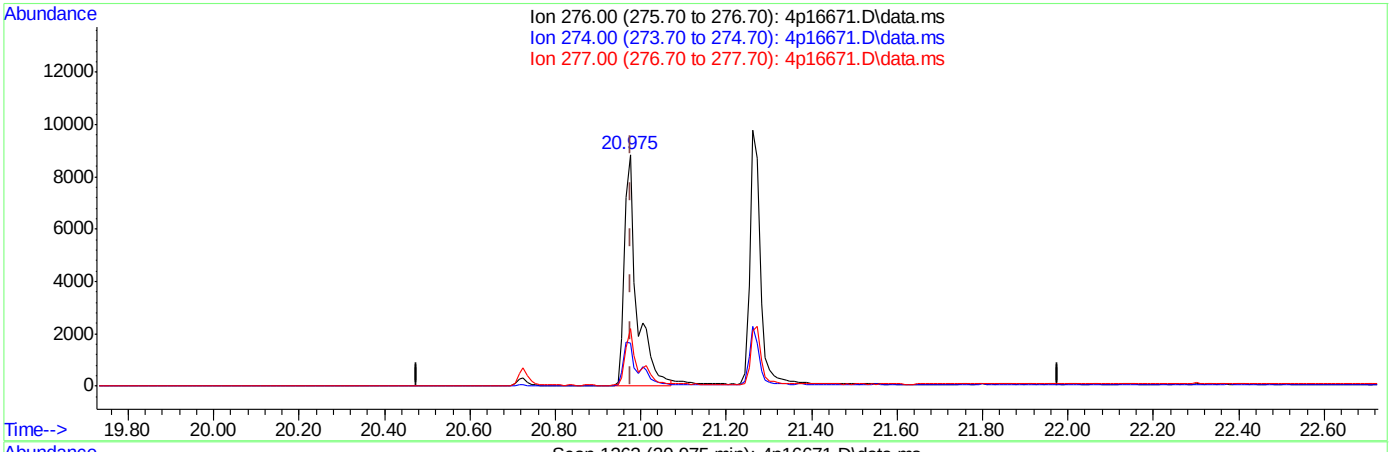
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	17.85
277.00	25.70	24.14
0.00	0.00	0.00

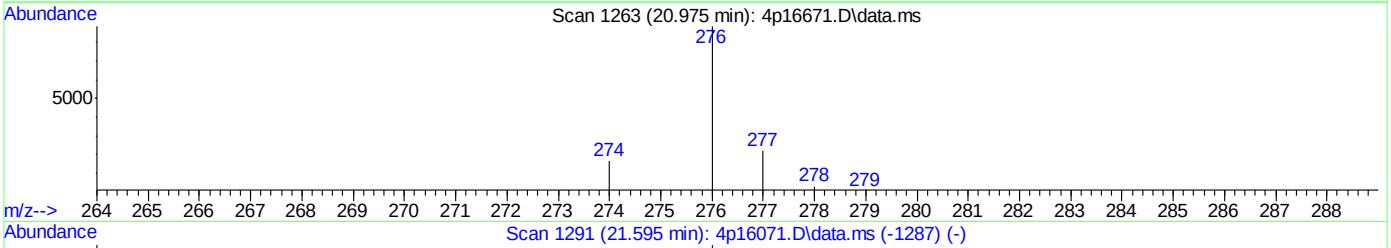
SGS ACCUTEST JC23443

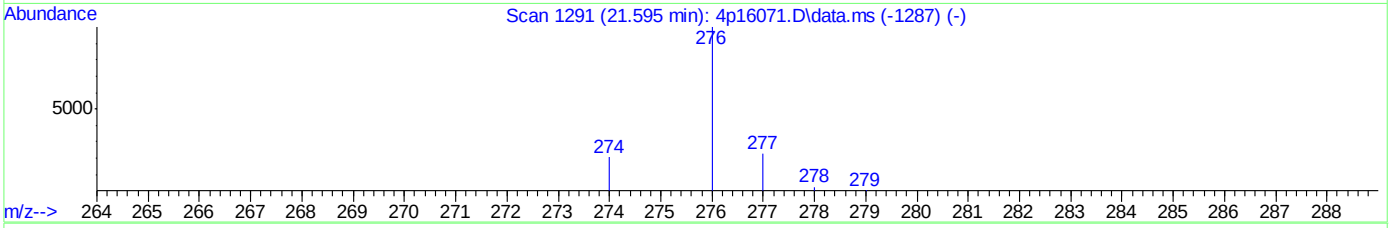
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16671.D
Acq On : 6 Jun 2016 11:20 am
Operator : linseyk
Sample : ic887-.2
Misc : op94376a,e4p887
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 14:54:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16671.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.19ppm m

response 18033

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	18.75
277.00	25.70	24.87
0.00	0.00	0.00

SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16672.D
Acq On : 6 Jun 2016 11:50 am
Operator : linseyk
Sample : ic887-.1
Misc : op94376a,e4p887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 15:00:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.761	150	137127	4.00	ppm	-0.02
13) Fluorene-d10	10.709	176	241781	4.00	ppm	0.00
23) Fluoranthene-d10	14.903	212	332029	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.526	264	237840	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	39922	2.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.06%	
4) Phenol-d5	3.750	99	65970	1.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.78%	
7) Nitrobenzene-d5	5.081	82	46633	1.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.66%	
14) 2-Fluorobiphenyl	8.425	172	132374	2.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	5.90%	
22) 2,4,6-Tribromophenol	11.236	330	11239	1.90	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.80%	
30) Terphenyl-d14	15.764	244	83507	1.75	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.50%	
Target Compounds						Qvalue
2) 1,4-Dioxane	1.422	88	1004	0.09	ppm	88
5) Phenol	3.768	94	17931	0.47	ppm #	89
6) bis(2-Chloroethyl)ether	3.854	93	2561	0.09	ppm #	32
8) Naphthalene	6.343	128	8883	0.10	ppm	98
9) Hexachlorobutadiene	6.648	225	1498	0.09	ppm	92
10) 2-Methylnaphthalene	7.646	141	4524	0.11	ppm	91
11) 1-Methylnaphthalene	7.829	141	5941	0.11	ppm	92
12) Hexachlorocyclopentadiene	8.013	237	1067	0.08	ppm	94
15) Acenaphthylene	9.365	152	8634	0.12	ppm	97
16) Acenaphthene	9.731	153	4891	0.09	ppm	92
17) Dibenzofuran	10.075	168	7684	0.11	ppm	97
18) Fluorene	10.759	166	6410	0.10	ppm	95
19) 4,6-dinitro-2-methylph...	10.957	198	716	0.17	ppm	90
20) n-nitrosodiphenylamine	11.081	169	3268	0.11	ppm	93
21) 1,2-Diphenylhydrazine	11.131	77	5151	0.09	ppm	92
24) Hexachlorobenzene	11.840	284	1831	0.09	ppm #	69
25) Pentachlorophenol	12.287	266	1683	0.21	ppm	95
26) Phenanthrene	12.631	178	8303	0.08	ppm	99
27) Anthracene	12.735	178	6875	0.07	ppm	99
28) Fluoranthene	14.938	202	9979	0.09	ppm	97
29) Pyrene	15.333	202	8466	0.08	ppm	97
31) Benzo[a]anthracene	17.452	228	5429	0.07	ppm	92
32) Chrysene	17.510	228	7188	0.08	ppm	94
34) Benzo[b]fluoranthene	19.112	252	7333	0.08	ppm	97
35) Benzo[k]fluoranthene	19.147	252	5932	0.08	ppm	91
36) Benzo[a]pyrene	19.549	252	7922	0.10	ppm	91
37) Indeno[1,2,3-cd]pyrene	20.975	276	7813m	0.09	ppm	
38) Dibenz[a,h]anthracene	21.013	278	5913	0.08	ppm	98
39) Benzo[g,h,i]perylene	21.263	276	7255	0.09	ppm	100

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16672.D
Acq On : 6 Jun 2016 11:50 am
Operator : linseyk
Sample : ic887-.1
Misc : op94376a,e4p887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 15:00:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.41

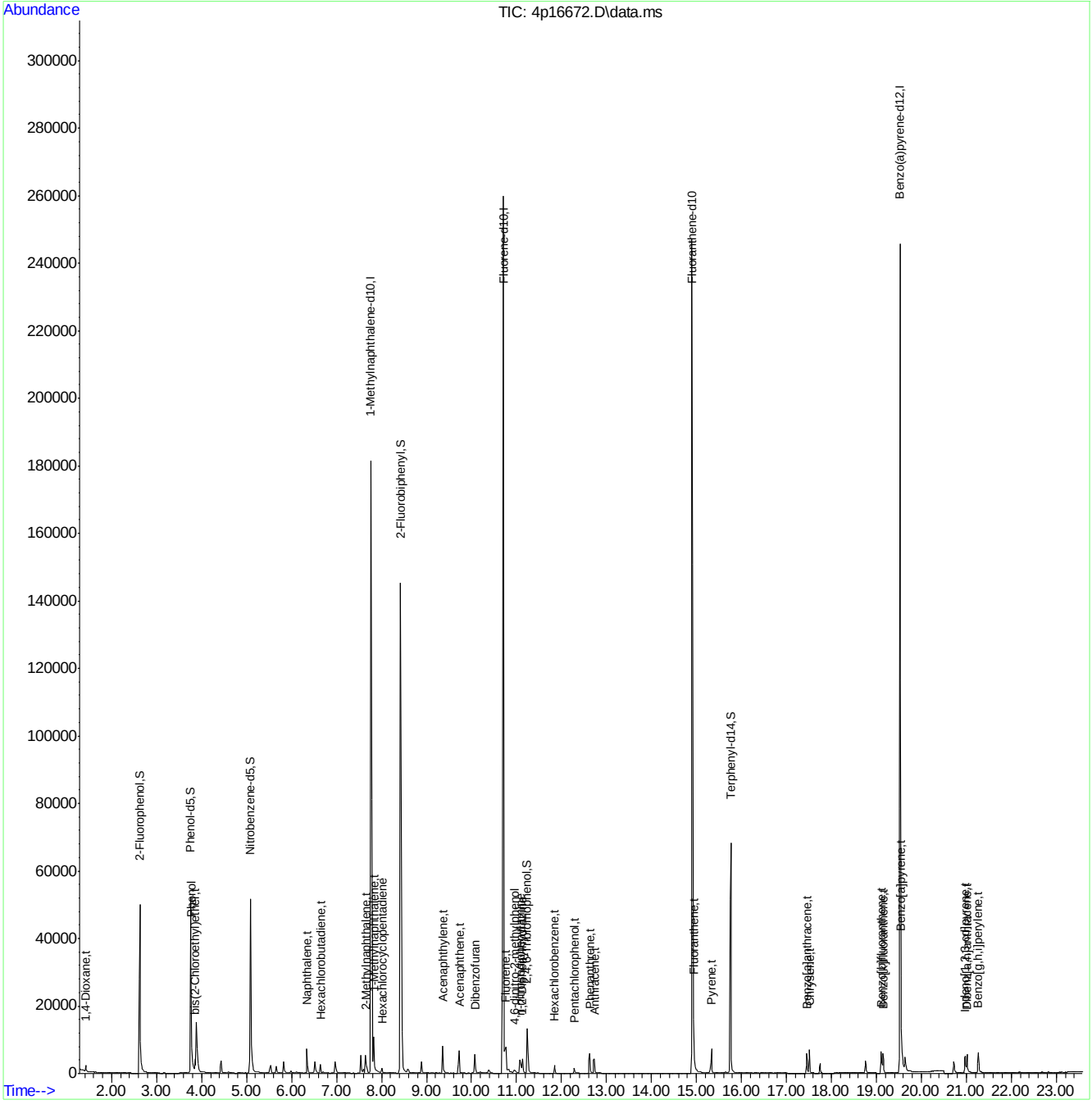
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16672.D
Acq On : 6 Jun 2016 11:50 am
Operator : linseyk
Sample : ic887-.1
Misc : op94376a,e4p887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 15:00:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integration Approval Summary

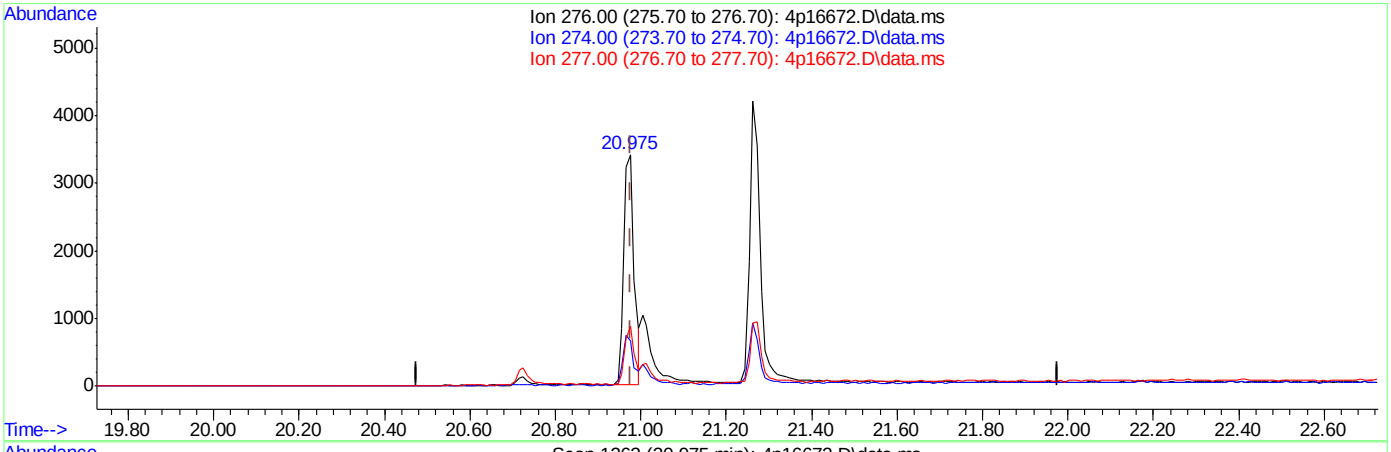
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16672.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 11:50	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

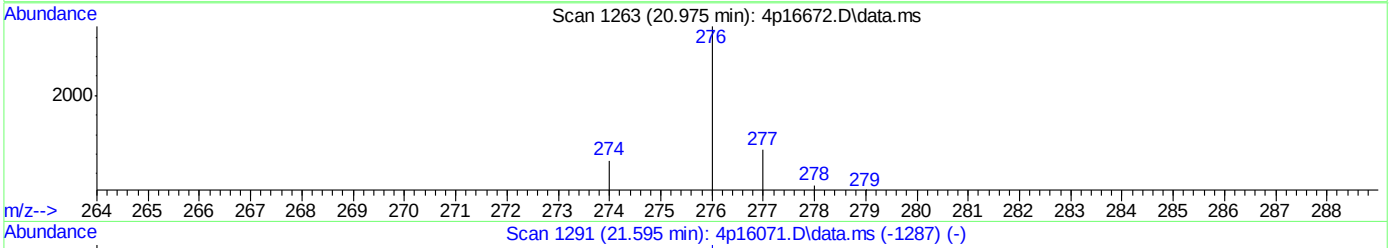
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

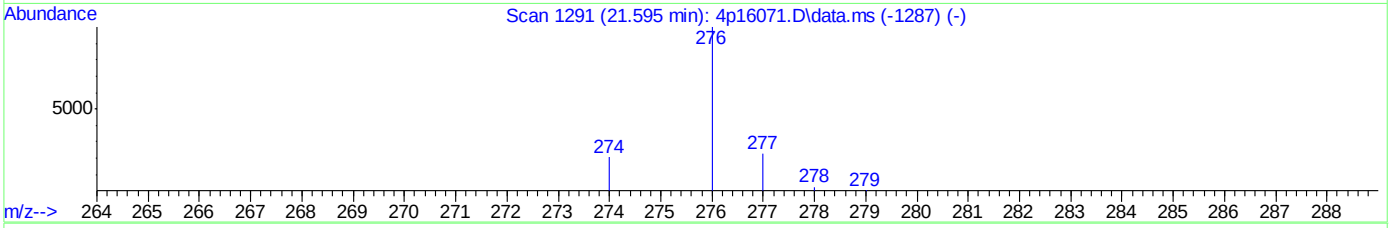
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16672.D
Acq On : 6 Jun 2016 11:50 am
Operator : linseyk
Sample : ic887-.1
Misc : op94376a,e4p887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 14:54:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16672.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.06ppm

response 5714

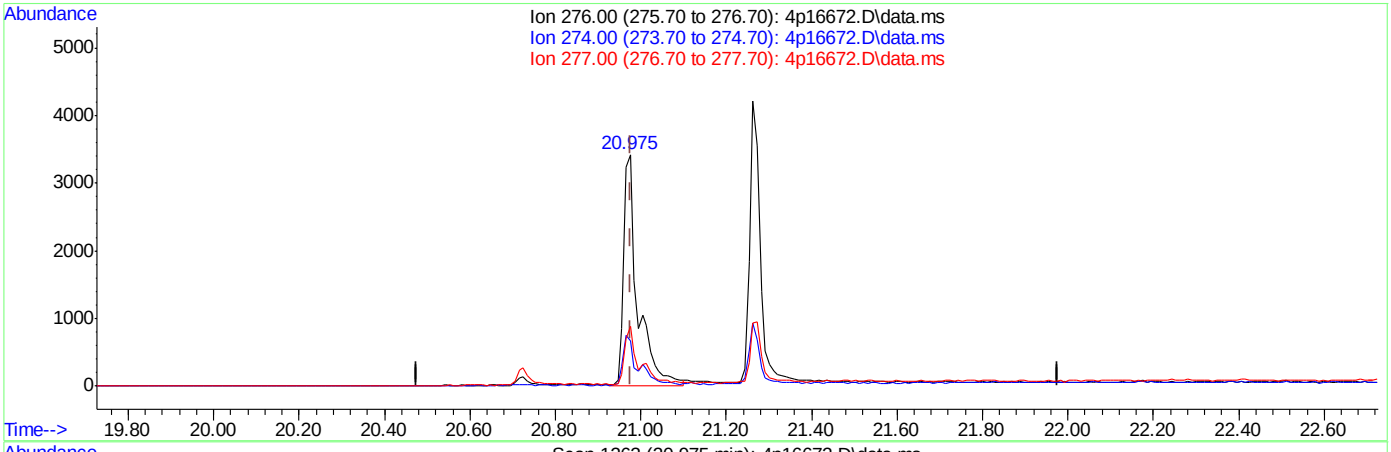
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	18.09
277.00	25.70	25.57
0.00	0.00	0.00

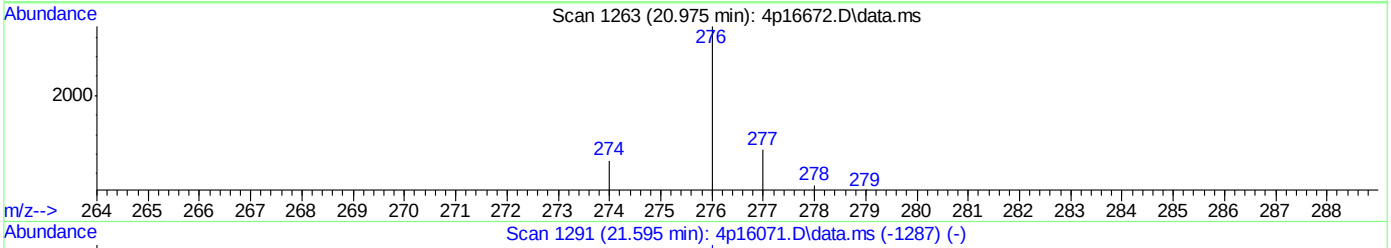
SGS ACCUTEST JC23443

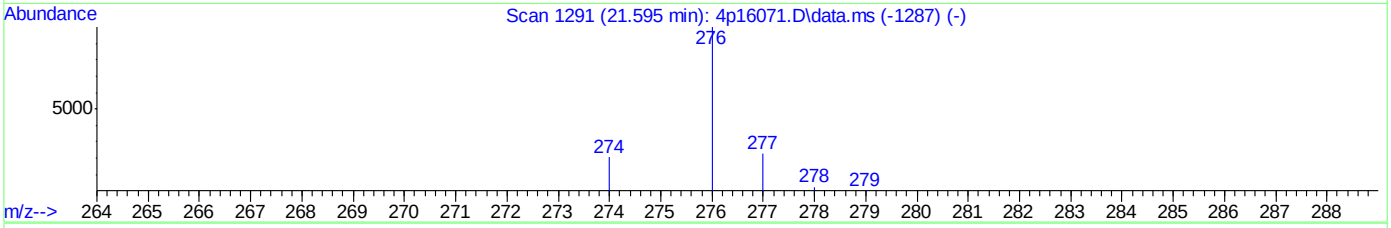
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16672.D
Acq On : 6 Jun 2016 11:50 am
Operator : linseyk
Sample : ic887-.1
Misc : op94376a,e4p887
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 06 14:54:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16672.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.09ppm m

response 7813

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	19.43
277.00	25.70	26.03
0.00	0.00	0.00

SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 15:01:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	7.762	150	144888	4.00 ppm	-0.02
13) Fluorene-d10	10.711	176	230572	4.00 ppm	0.00
23) Fluoranthene-d10	14.905	212	352035	4.00 ppm	-0.02
33) Benzo(a)pyrene-d12	19.530	264	236115	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	2.628	112	20270	0.98 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.96%	
4) Phenol-d5	3.750	99	30849	0.84 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.68%	
7) Nitrobenzene-d5	5.083	82	22019	0.82 ppm	0.00
Spiked Amount 50.000			Recovery	= 1.64%	
14) 2-Fluorobiphenyl	8.427	172	69496	1.62 ppm	0.00
Spiked Amount 50.000			Recovery	= 3.24%	
22) 2,4,6-Tribromophenol	11.238	330	5804	1.03 ppm	0.00
Spiked Amount 50.000			Recovery	= 2.06%	
30) Terphenyl-d14	15.748	244	41958	0.83 ppm	-0.02
Spiked Amount 50.000			Recovery	= 1.66%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.422	88	508	0.05 ppm #	57
5) Phenol	3.767	94	8555	0.21 ppm #	80
6) bis(2-Chloroethyl)ether	3.853	93	1239	0.04 ppm #	31
8) Naphthalene	6.344	128	4578	0.05 ppm	98
9) Hexachlorobutadiene	6.650	225	781	0.05 ppm	89
10) 2-Methylnaphthalene	7.648	141	2892	0.06 ppm	87
11) 1-Methylnaphthalene	7.831	141	3213	0.06 ppm	87
12) Hexachlorocyclopentadiene	8.015	237	358	0.03 ppm	90
15) Acenaphthylene	9.366	152	4446	0.06 ppm	95
16) Acenaphthene	9.733	153	2340	0.05 ppm	89
17) Dibenzofuran	10.077	168	6334	0.10 ppm	88
18) Fluorene	10.760	166	3320	0.06 ppm	94
19) 4,6-dinitro-2-methylph...	10.959	198	281	0.07 ppm #	46
20) n-nitrosodiphenylamine	11.083	169	1743	0.06 ppm	89
21) 1,2-Diphenylhydrazine	11.133	77	2236	0.04 ppm	89
24) Hexachlorobenzene	11.842	284	972	0.05 ppm	76
25) Pentachlorophenol	12.289	266	912	0.11 ppm	95
26) Phenanthrene	12.633	178	4186	0.04 ppm	97
27) Anthracene	12.719	178	3493	0.04 ppm	88
28) Fluoranthene	14.939	202	5266	0.05 ppm	96
29) Pyrene	15.335	202	4376	0.04 ppm	97
31) Benzo[a]anthracene	17.456	228	2780	0.03 ppm	97
32) Chrysene	17.504	228	3540	0.04 ppm	99
34) Benzo[b]fluoranthene	19.116	252	3212	0.04 ppm	94
35) Benzo[k]fluoranthene	19.150	252	3352	0.04 ppm	91
36) Benzo[a]pyrene	19.553	252	3497m	0.05 ppm	
37) Indeno[1,2,3-cd]pyrene	20.969	276	3790m	0.04 ppm	
38) Dibenz[a,h]anthracene	21.017	278	2844	0.04 ppm	91
39) Benzo[g,h,i]perylene	21.267	276	3562	0.05 ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 15:01:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.42

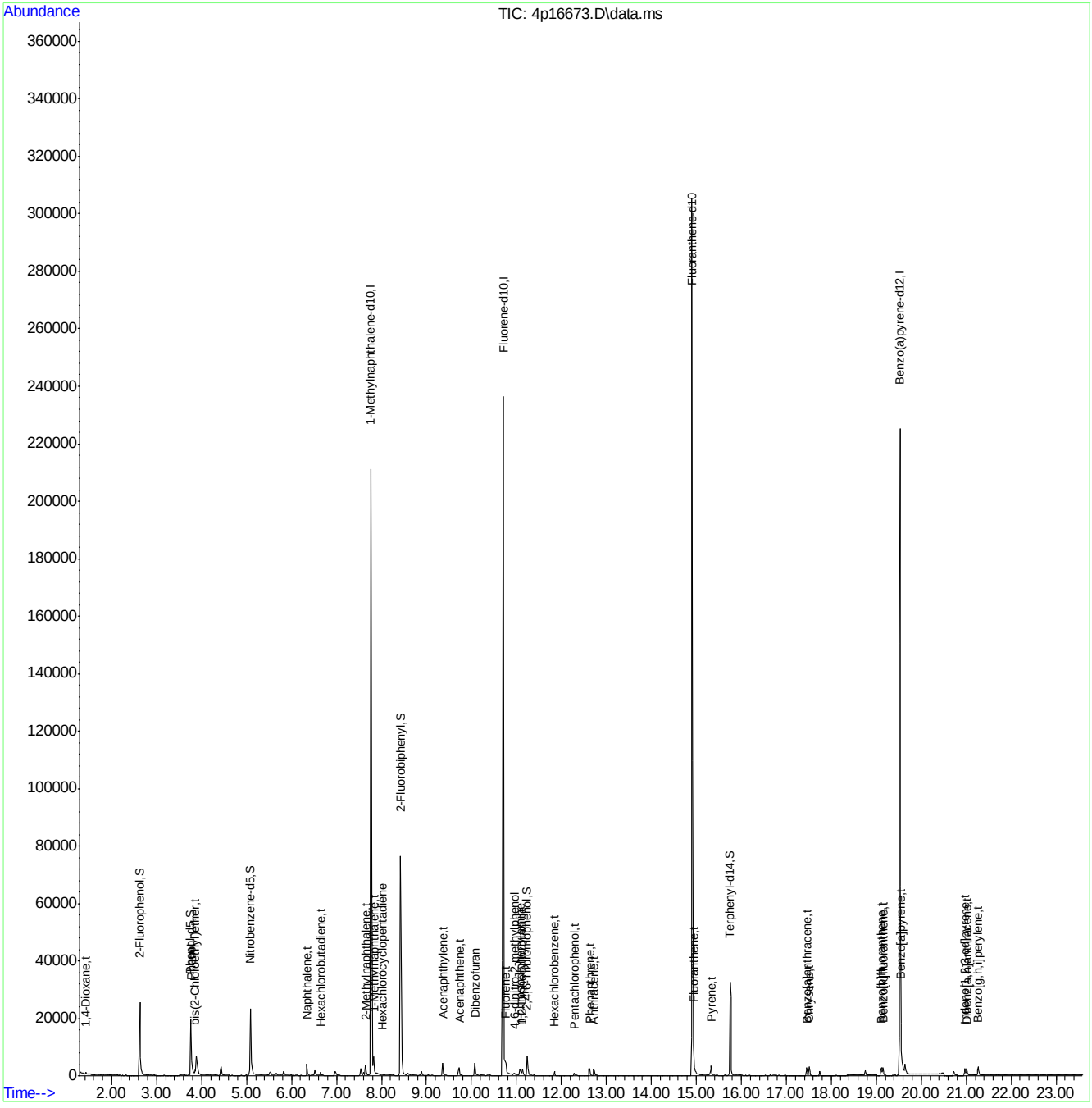
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 15:01:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



Manual Integration Approval Summary

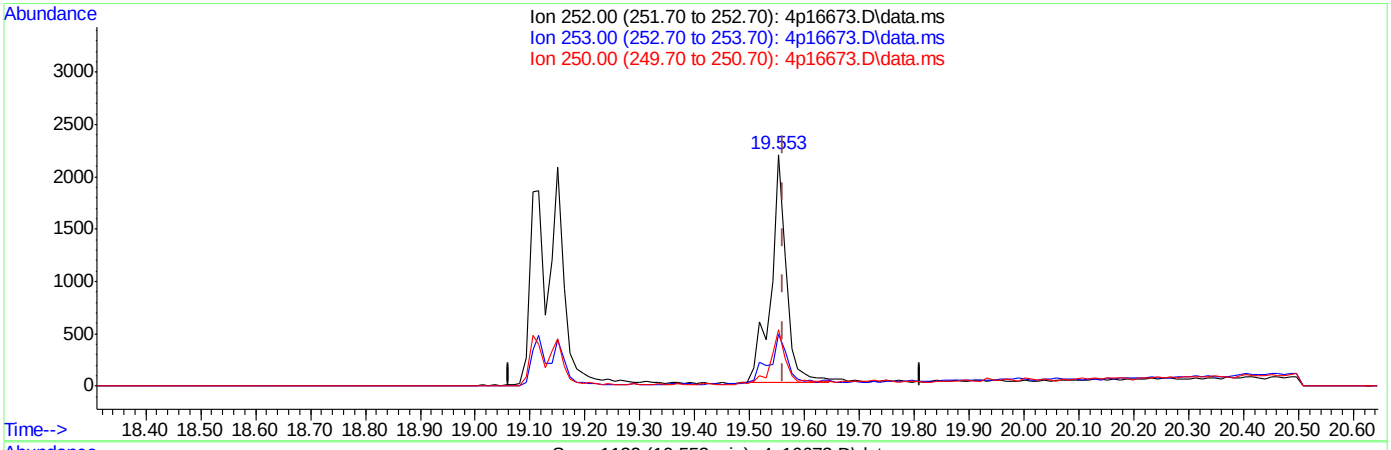
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16673.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 12:19	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

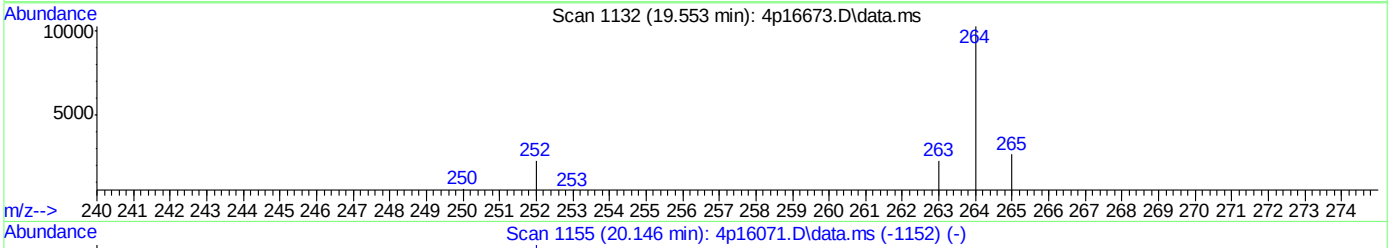
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(a)pyrene	50-32-8		19.55	Poor instrument integration
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

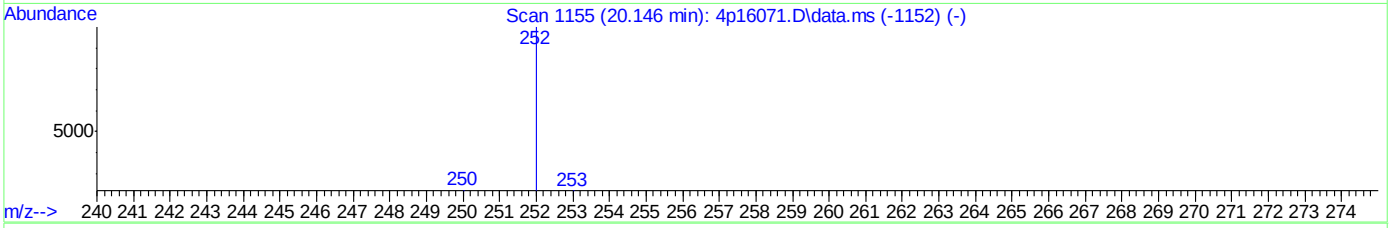
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 14:54:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16673.D\data.ms

(36) Benzo[a]pyrene (t)

19.553min (-0.008) 0.06ppm

response 4239

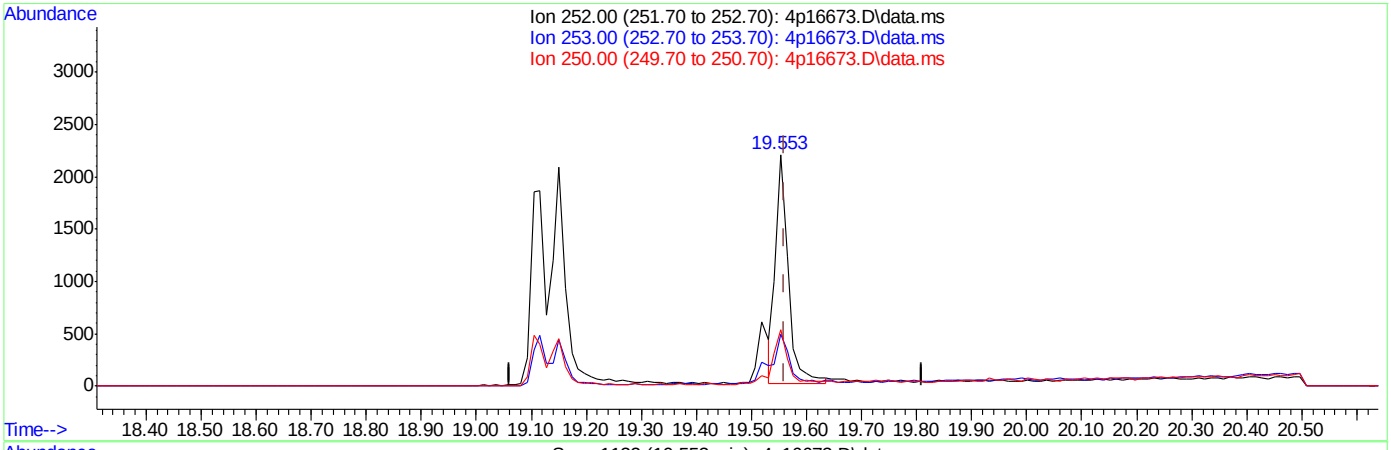
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	21.23
250.00	20.80	22.90
0.00	0.00	0.00

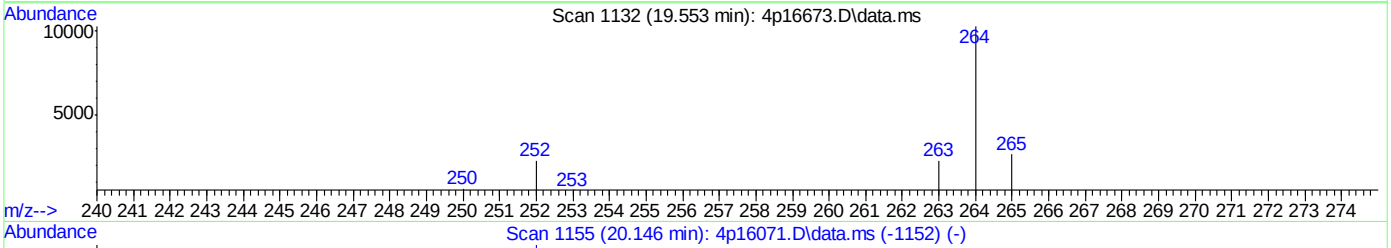
SGS ACCUTEST JC23443

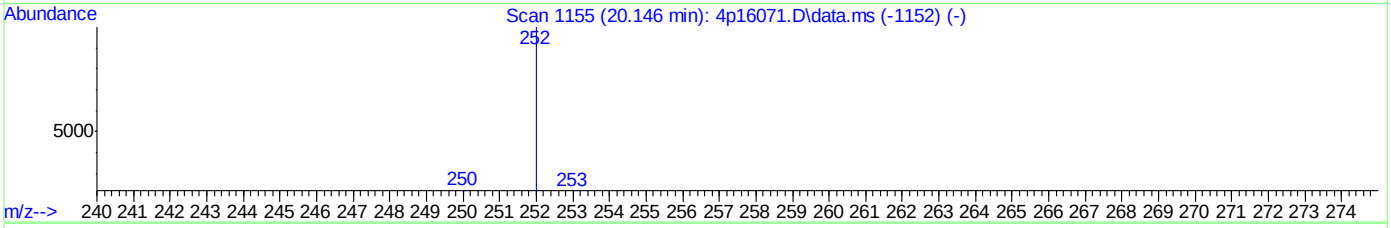
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 14:54:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16673.D\data.ms

(36) Benzo[a]pyrene (t)

19.553min (-0.008) 0.05ppm m

response 3497

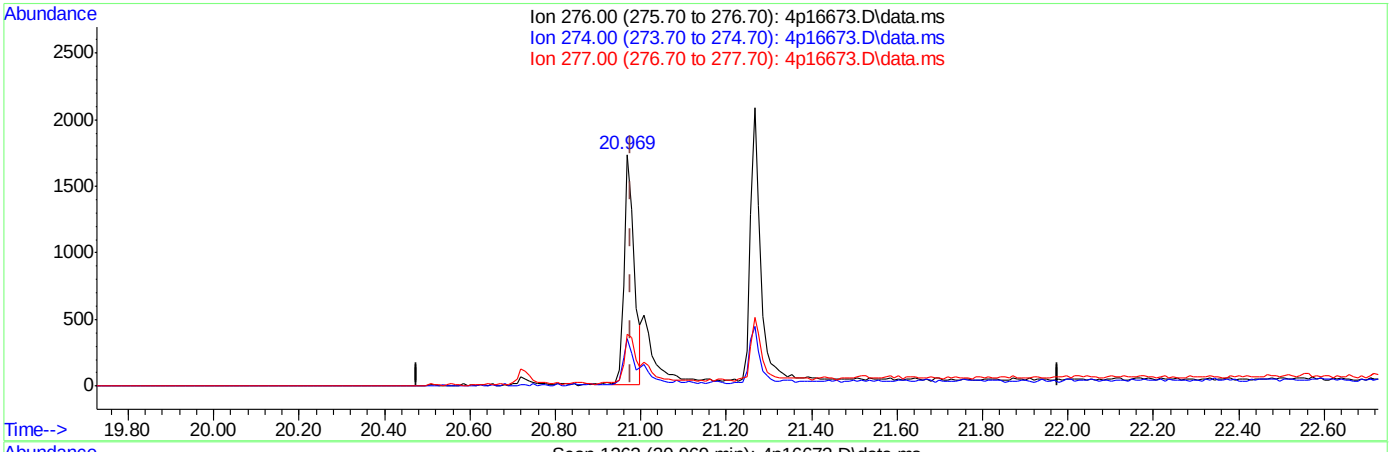
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	22.54
250.00	20.80	24.21
0.00	0.00	0.00

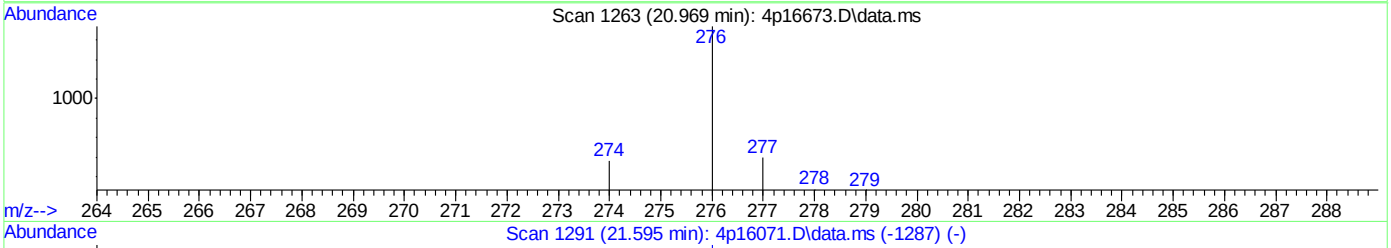
SGS ACCUTEST JC23443

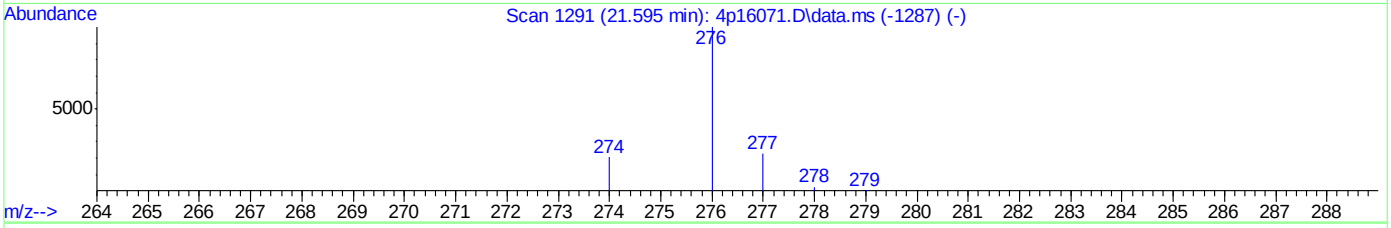
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 14:54:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16673.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.969min (-0.008) 0.03ppm

response 2821

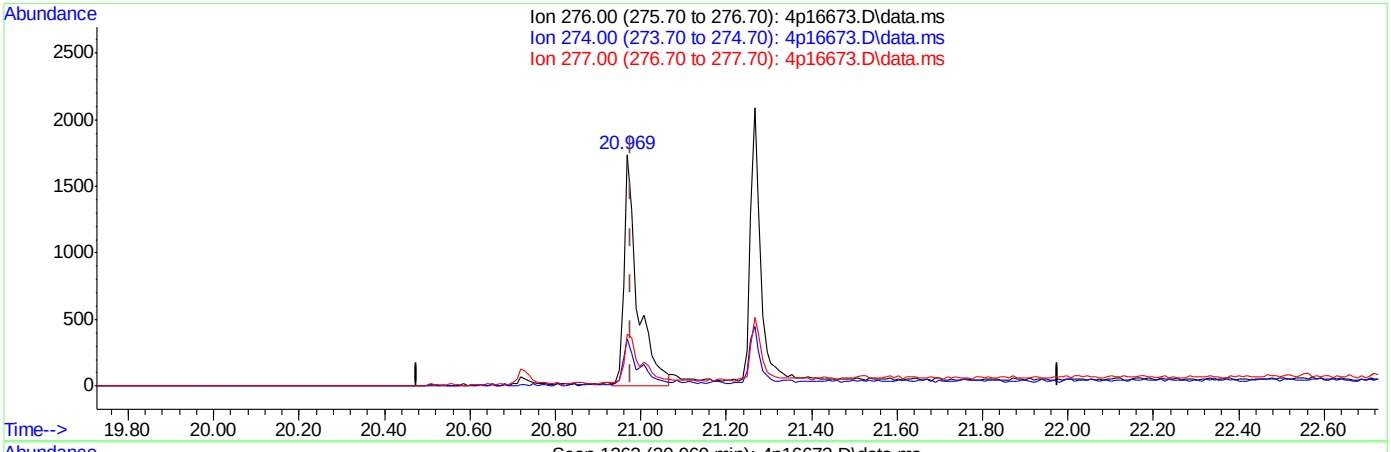
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	18.95
277.00	25.70	20.35
0.00	0.00	0.00

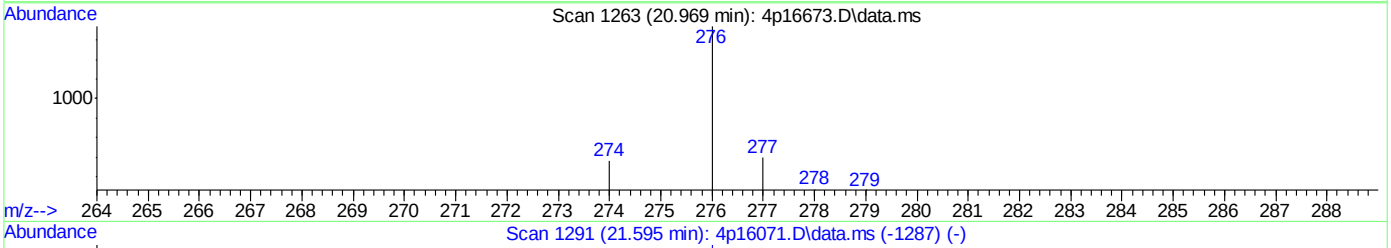
SGS ACCUTEST JC23443

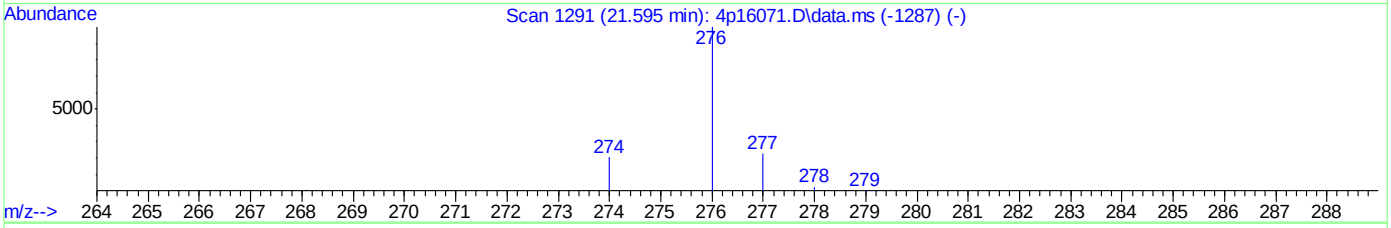
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16673.D
Acq On : 6 Jun 2016 12:19 pm
Operator : linseyk
Sample : ic887-.05
Misc : op94376a,e4p887
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 14:54:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16673.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.969min (-0.008) 0.04ppm m

response 3790

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	20.64
277.00	25.70	22.66
0.00	0.00	0.00

SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16674.D
Acq On : 6 Jun 2016 12:49 pm
Operator : linseyk
Sample : ic887-.02
Misc : op94376a,e4p887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 15:02:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.761	150	140143	4.00	ppm	-0.02
13) Fluorene-d10	10.709	176	229403	4.00	ppm	0.00
23) Fluoranthene-d10	14.903	212	329353	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.526	264	223750	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	7471	0.37	ppm	0.00
Spiked Amount 50.000			Recovery = 0.74%			
4) Phenol-d5	3.750	99	11083	0.31	ppm	0.00
Spiked Amount 50.000			Recovery = 0.62%			
7) Nitrobenzene-d5	5.081	82	9589	0.37	ppm	0.00
Spiked Amount 50.000			Recovery = 0.74%			
14) 2-Fluorobiphenyl	8.425	172	25390	0.60	ppm	0.00
Spiked Amount 50.000			Recovery = 1.20%			
22) 2,4,6-Tribromophenol	11.236	330	1881	0.34	ppm	0.00
Spiked Amount 50.000			Recovery = 0.68%			
30) Terphenyl-d14	15.764	244	15163	0.32	ppm	0.00
Spiked Amount 50.000			Recovery = 0.64%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.422	88	359	0.03	ppm	91
5) Phenol	3.768	94	3233	0.08	ppm #	74
6) bis(2-Chloroethyl)ether	3.854	93	698	0.02	ppm #	60
8) Naphthalene	6.343	128	1762	0.02	ppm	98
9) Hexachlorobutadiene	6.649	225	359	0.02	ppm	91
10) 2-Methylnaphthalene	7.646	141	1691	0.04	ppm	90
11) 1-Methylnaphthalene	7.829	141	1316	0.02	ppm	87
12) Hexachlorocyclopentadiene	8.013	237	114	0.01	ppm #	39
15) Acenaphthylene	9.365	152	1698	0.02	ppm	96
16) Acenaphthene	9.731	153	928	0.02	ppm	90
17) Dibenzofuran	10.075	168	4626	0.07	ppm	97
18) Fluorene	10.759	166	1166	0.02	ppm	97
19) 4,6-dinitro-2-methylph...	10.957	198	179	0.05	ppm #	1
20) n-nitrosodiphenylamine	11.081	169	653	0.02	ppm	95
21) 1,2-Diphenylhydrazine	11.131	77	987	0.02	ppm	91
24) Hexachlorobenzene	11.840	284	404	0.02	ppm	71
25) Pentachlorophenol	12.287	266	551	0.07	ppm	88
26) Phenanthrene	12.631	178	1732	0.02	ppm	98
27) Anthracene	12.735	178	1513	0.02	ppm	97
28) Fluoranthene	14.938	202	2262	0.02	ppm	96
29) Pyrene	15.333	202	1666	0.02	ppm	98
31) Benzo[a]anthracene	17.452	228	935	0.01	ppm	90
32) Chrysene	17.510	228	1320	0.01	ppm	95
34) Benzo[b]fluoranthene	19.112	252	1283	0.02	ppm	96
35) Benzo[k]fluoranthene	19.147	252	1042	0.01	ppm	85
36) Benzo[a]pyrene	19.549	252	1176	0.02	ppm	92
37) Indeno[1,2,3-cd]pyrene	20.967	276	1233m	0.01	ppm	
38) Dibenz[a,h]anthracene	21.015	278	1047	0.02	ppm	91
39) Benzo[g,h,i]perylene	21.265	276	1385	0.02	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16674.D
Acq On : 6 Jun 2016 12:49 pm
Operator : linseyk
Sample : ic887-.02
Misc : op94376a,e4p887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 15:02:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.43

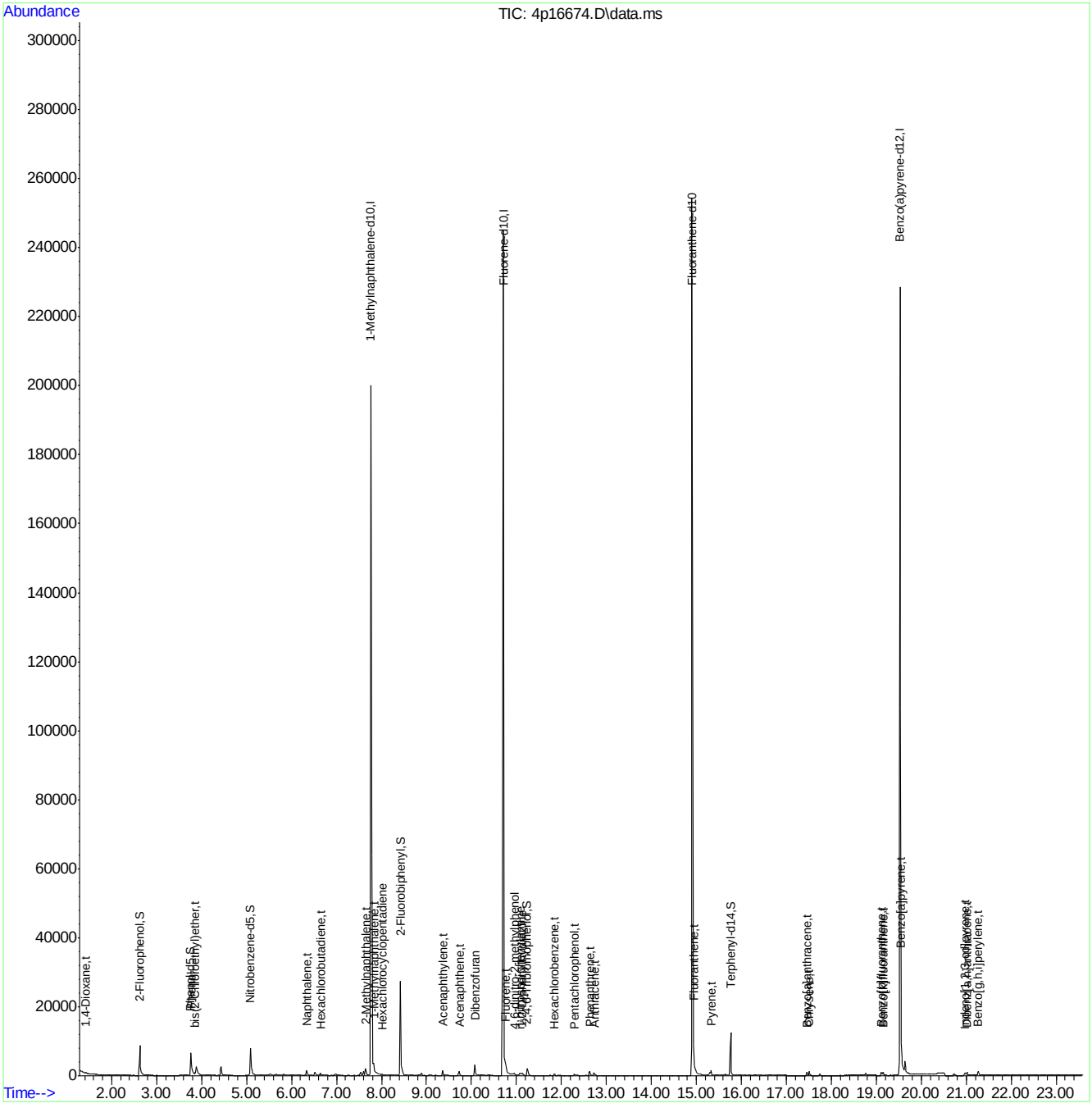
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16674.D
Acq On : 6 Jun 2016 12:49 pm
Operator : linseyk
Sample : ic887-.02
Misc : op94376a,e4p887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 15:02:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integration Approval Summary

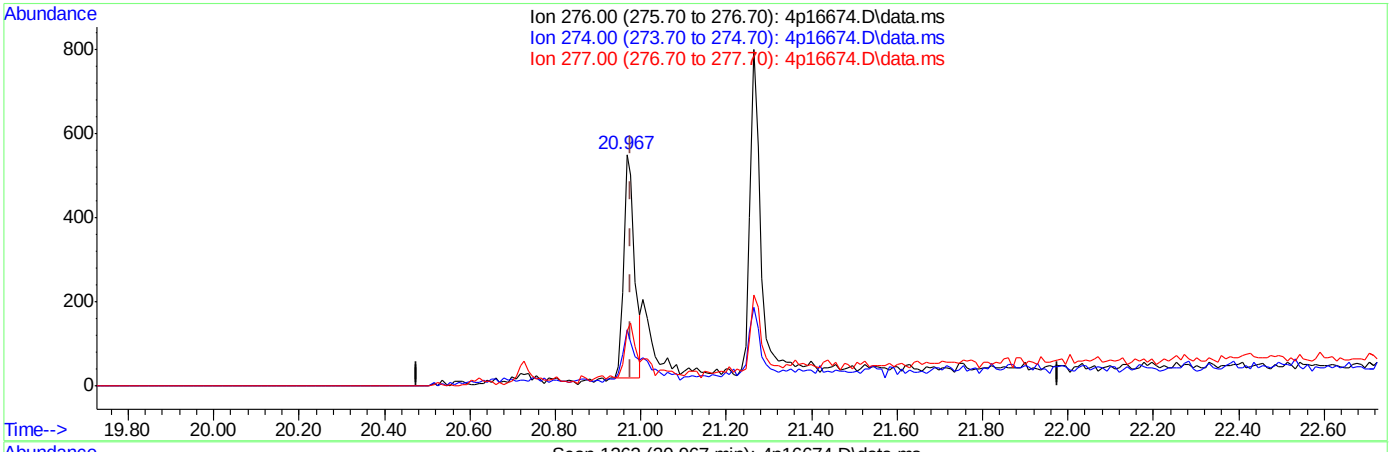
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16674.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 12:49	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

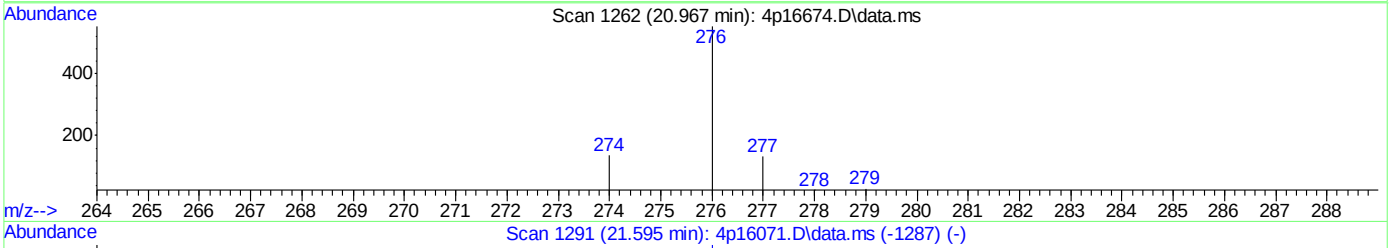
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

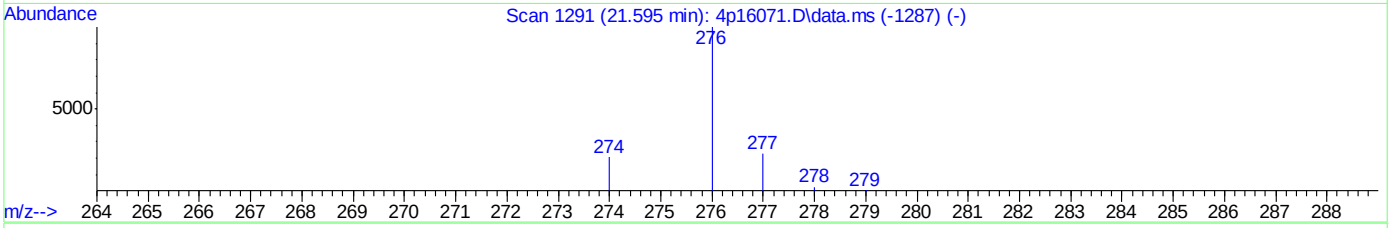
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16674.D
Acq On : 6 Jun 2016 12:49 pm
Operator : linseyk
Sample : ic887-.02
Misc : op94376a,e4p887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 14:54:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16674.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.967min (-0.009) 0.01ppm

response 935

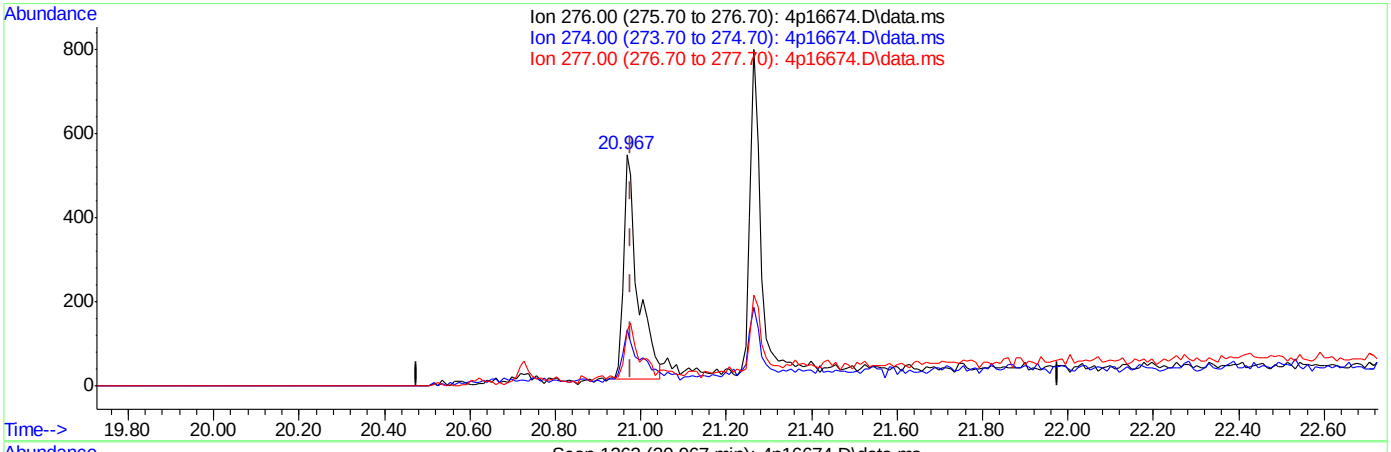
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	20.81
277.00	25.70	20.70
0.00	0.00	0.00

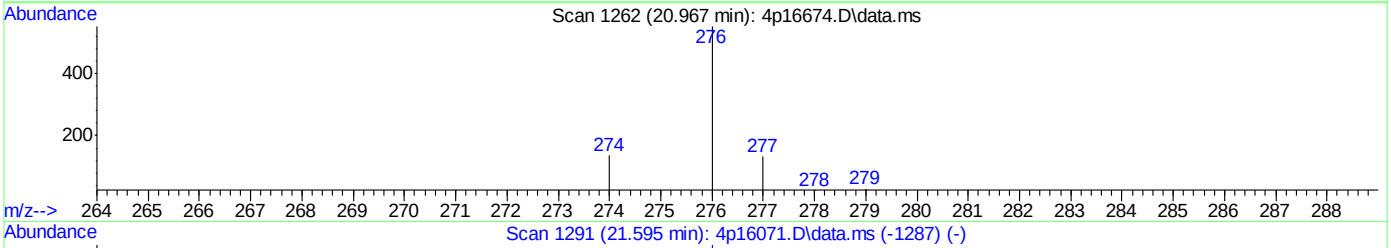
SGS ACCUTEST JC23443

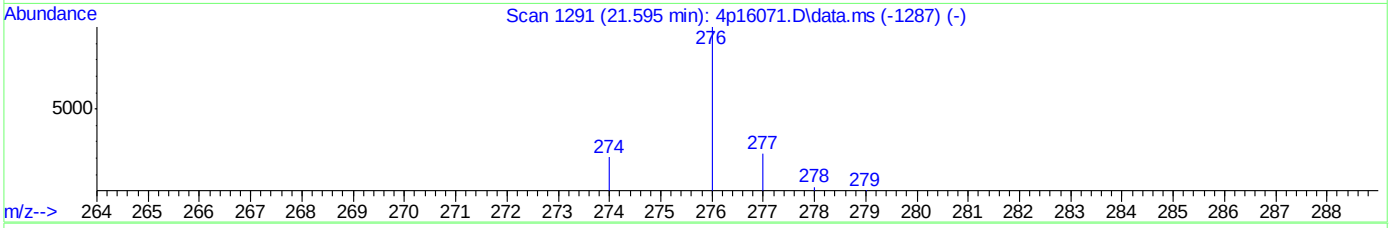
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16674.D
Acq On : 6 Jun 2016 12:49 pm
Operator : linseyk
Sample : ic887-.02
Misc : op94376a,e4p887
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 06 14:54:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16674.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.967min (-0.009) 0.01ppm m

response 1233

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	24.50
277.00	25.70	24.14
0.00	0.00	0.00

SGS ACCUTEST JC23443

4P16675.D

Manual Integrations APPROVED (compounds with "m" flag)

Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16675.D
Acq On : 6 Jun 2016 1:19 pm
Operator : linseyk
Sample : ic887-.01
Misc : op94376a,e4p887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 15:02:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	7.761	150	140162	4.00 ppm	-0.02
13) Fluorene-d10	10.709	176	238239	4.00 ppm	0.00
23) Fluoranthene-d10	14.903	212	339097	4.00 ppm	-0.02
33) Benzo(a)pyrene-d12	19.526	264	230936	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	2.628	112	3619	0.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.36%	
4) Phenol-d5	3.768	99	4928	0.14 ppm	0.02
Spiked Amount 50.000			Recovery	= 0.28%	
7) Nitrobenzene-d5	5.081	82	4592	0.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.36%	
14) 2-Fluorobiphenyl	8.425	172	12697	0.29 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.58%	
22) 2,4,6-Tribromophenol	11.236	330	846	0.15 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.30%	
30) Terphenyl-d14	15.764	244	7128	0.15 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.30%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.422	88	191	0.02 ppm	90
5) Phenol	3.768	94	1583	0.04 ppm #	42
6) bis(2-Chloroethyl)ether	3.854	93	263	0.01 ppm #	71
8) Naphthalene	6.343	128	945	0.01 ppm	95
9) Hexachlorobutadiene	6.649	225	187	0.01 ppm	91
10) 2-Methylnaphthalene	7.646	141	1286	0.03 ppm	92
11) 1-Methylnaphthalene	7.829	141	677	0.01 ppm	87
12) Hexachlorocyclopentadiene	8.013	237	81	0.01 ppm #	1
15) Acenaphthylene	9.365	152	854	0.01 ppm	96
16) Acenaphthene	9.731	153	485	0.01 ppm	88
17) Dibenzofuran	10.075	168	4160	0.06 ppm	97
18) Fluorene	10.684	166	609	0.01 ppm #	18
19) 4,6-dinitro-2-methylph...	10.982	198	116	0.03 ppm #	22
20) n-nitrosodiphenylamine	11.081	169	348	0.01 ppm #	81
21) 1,2-Diphenylhydrazine	11.131	77	560	0.01 ppm	83
24) Hexachlorobenzene	11.840	284	204	0.01 ppm	70
25) Pentachlorophenol	12.287	266	431	0.05 ppm	93
26) Phenanthrene	12.631	178	834	0.01 ppm	98
27) Anthracene	12.735	178	737	0.01 ppm	98
28) Fluoranthene	14.938	202	1345	0.01 ppm	97
29) Pyrene	15.334	202	860	0.01 ppm	98
31) Benzo[a]anthracene	17.452	228	493	0.01 ppm	94
32) Chrysene	17.510	228	696	0.01 ppm	95
34) Benzo[b]fluoranthene	19.112	252	645	0.01 ppm	93
35) Benzo[k]fluoranthene	19.147	252	492	0.01 ppm	97
36) Benzo[a]pyrene	19.549	252	611	0.01 ppm	84
37) Indeno[1,2,3-cd]pyrene	20.975	276	615m	0.01 ppm	
38) Dibenz[a,h]anthracene	21.013	278	499	0.01 ppm	79
39) Benzo[g,h,i]perylene	21.263	276	621	0.01 ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16675.D
Acq On : 6 Jun 2016 1:19 pm
Operator : linseyk
Sample : ic887-.01
Misc : op94376a,e4p887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 15:02:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.44

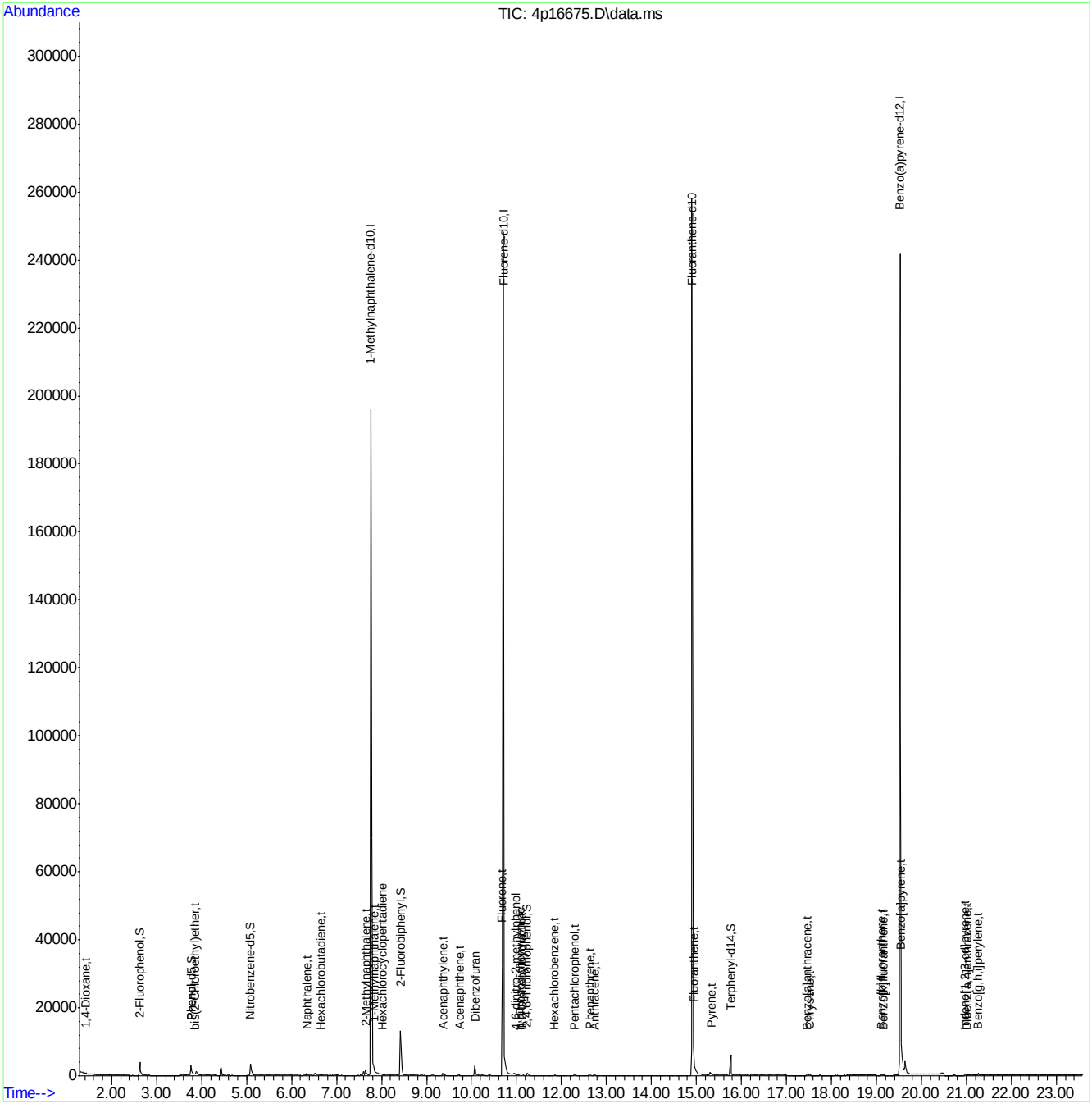
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16675.D
Acq On : 6 Jun 2016 1:19 pm
Operator : linseyk
Sample : ic887-.01
Misc : op94376a,e4p887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 15:02:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



M4P887SIM.M Mon Jun 06 15:02:48 2016 Page: 3

Manual Integration Approval Summary

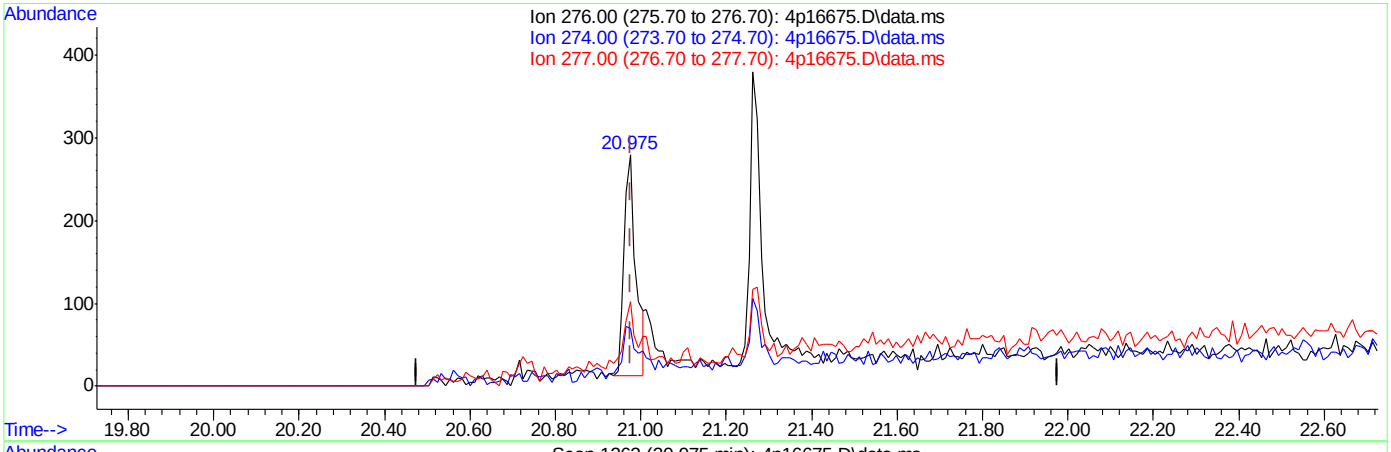
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16675.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 13:19	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

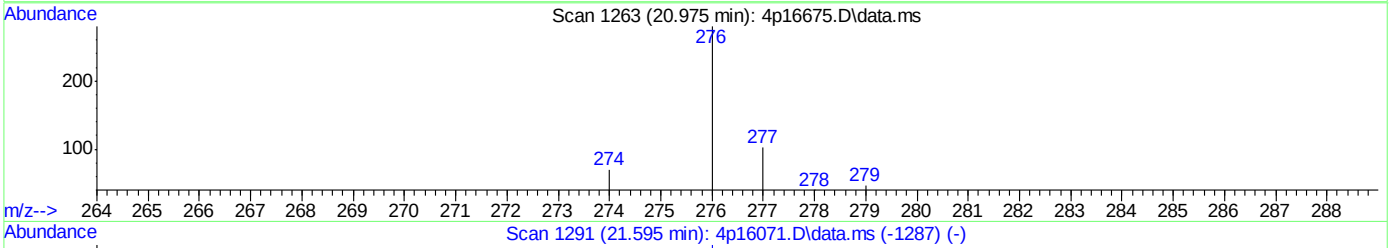
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

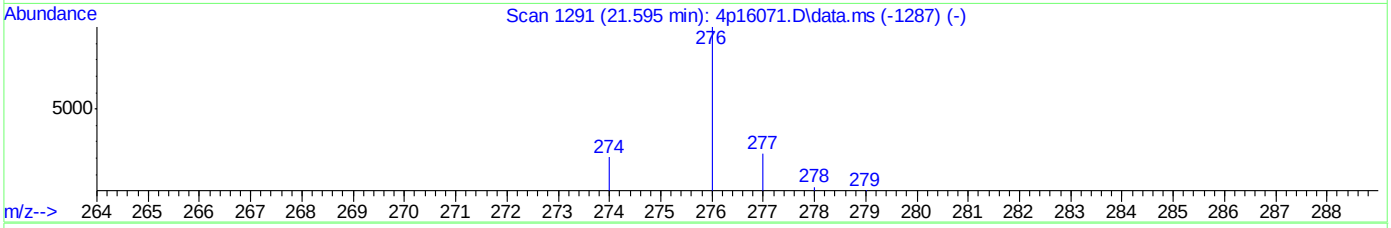
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16675.D
Acq On : 6 Jun 2016 1:19 pm
Operator : linseyk
Sample : ic887-.01
Misc : op94376a,e4p887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 14:54:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16675.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.01ppm

response 508

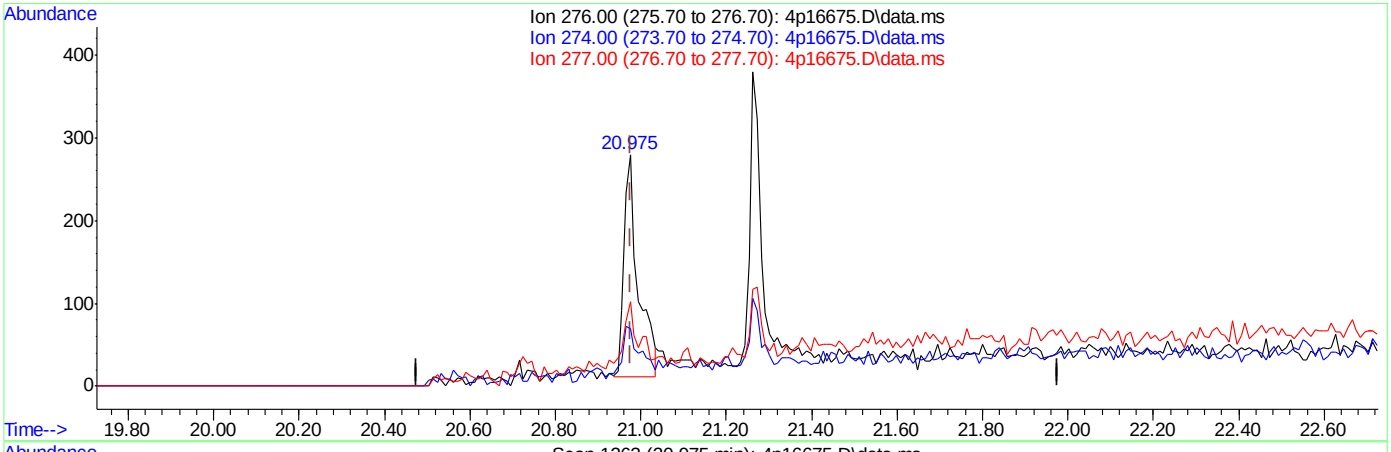
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	17.54
277.00	25.70	25.66
0.00	0.00	0.00

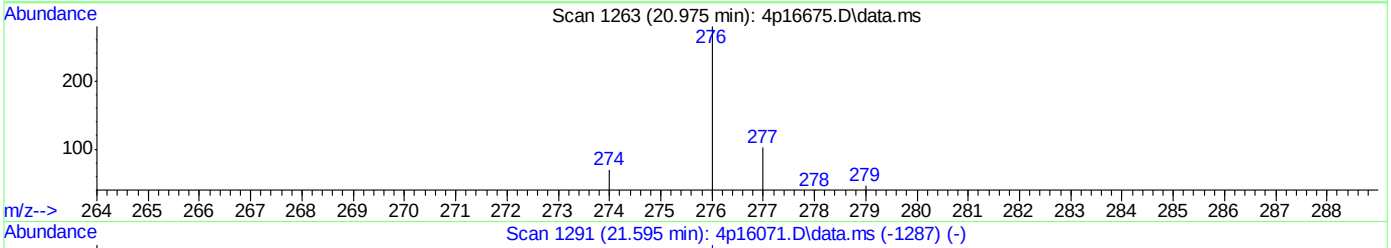
SGS ACCUTEST JC23443

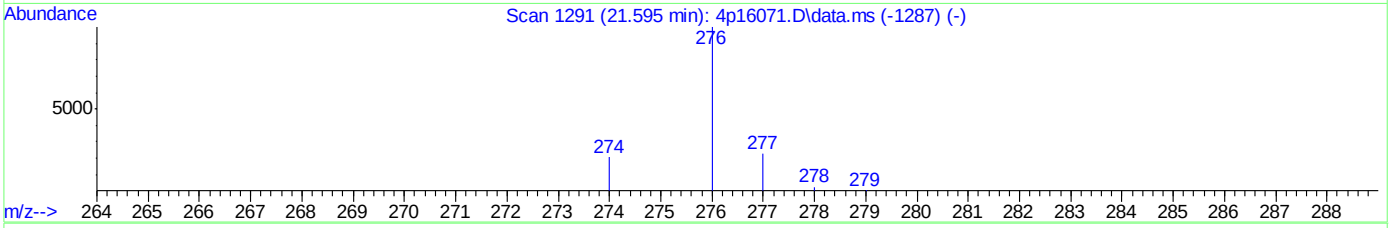
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16675.D
Acq On : 6 Jun 2016 1:19 pm
Operator : linseyk
Sample : ic887-.01
Misc : op94376a,e4p887
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 06 14:54:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16675.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 0.01ppm m

response 615

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	24.64
277.00	25.70	36.43
0.00	0.00	0.00

SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16676.D
Acq On : 6 Jun 2016 1:49 pm
Operator : linseyk
Sample : ic887-5
Misc : op94376a,e4p887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 15:04:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.760	150	149118	4.00	ppm	-0.02
13) Fluorene-d10	10.709	176	284210	4.00	ppm	0.00
23) Fluoranthene-d10	14.903	212	345134	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.526	264	240786	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	1759448	82.31	ppm	0.00
Spiked Amount 50.000			Recovery = 164.62%			
4) Phenol-d5	3.750	99	2743485	72.31	ppm	0.00
Spiked Amount 50.000			Recovery = 144.62%			
7) Nitrobenzene-d5	5.081	82	2586948	93.39	ppm	0.00
Spiked Amount 50.000			Recovery = 186.78%			
14) 2-Fluorobiphenyl	8.425	172	4364591	82.67	ppm	0.00
Spiked Amount 50.000			Recovery = 165.34%			
22) 2,4,6-Tribromophenol	11.236	330	670138	96.54	ppm	0.00
Spiked Amount 50.000			Recovery = 193.08%			
30) Terphenyl-d14	15.763	244	3628905	73.22	ppm	0.00
Spiked Amount 50.000			Recovery = 146.44%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.421	88	59274	5.14	ppm #	64
5) Phenol	3.767	94	980114	23.37	ppm #	88
6) bis(2-Chloroethyl)ether	3.853	93	131134	4.41	ppm	94
8) Naphthalene	6.342	128	474623	4.75	ppm	97
9) Hexachlorobutadiene	6.648	225	76074	4.41	ppm	91
10) 2-Methylnaphthalene	7.646	141	255720	5.52	ppm	85
11) 1-Methylnaphthalene	7.829	141	306701	5.12	ppm	86
12) Hexachlorocyclopentadiene	8.013	237	134664	9.57	ppm	97
15) Acenaphthylene	9.364	152	512142	5.82	ppm	96
16) Acenaphthene	9.731	153	258924	4.14	ppm	87
17) Dibenzofuran	10.075	168	442043	5.52	ppm	86
18) Fluorene	10.758	166	303626	4.10	ppm	91
19) 4,6-dinitro-2-methylph...	10.957	198	187060	37.99	ppm	93
20) n-nitrosodiphenylamine	11.081	169	207101	6.01	ppm	92
21) 1,2-Diphenylhydrazine	11.131	77	362832	5.52	ppm	92
24) Hexachlorobenzene	11.840	284	94851	4.60	ppm	71
25) Pentachlorophenol	12.270	266	229031	27.40	ppm	77
26) Phenanthrene	12.631	178	465208	4.40	ppm	96
27) Anthracene	12.717	178	480688	4.93	ppm	89
28) Fluoranthene	14.937	202	512839	4.68	ppm	97
29) Pyrene	15.333	202	506073	4.57	ppm	95
31) Benzo[a]anthracene	17.452	228	376444	4.60	ppm	93
32) Chrysene	17.510	228	431063	4.60	ppm	93
34) Benzo[b]fluoranthene	19.112	252	432420	4.85	ppm	95
35) Benzo[k]fluoranthene	19.146	252	367625	4.64	ppm	90
36) Benzo[a]pyrene	19.549	252	368276	4.71	ppm	90
37) Indeno[1,2,3-cd]pyrene	20.967	276	397850m	4.32	ppm	
38) Dibenz[a,h]anthracene	21.015	278	331914	4.47	ppm	98
39) Benzo[g,h,i]perylene	21.265	276	366364	4.57	ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16676.D
Acq On : 6 Jun 2016 1:49 pm
Operator : linseyk
Sample : ic887-5
Misc : op94376a,e4p887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 15:04:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.45

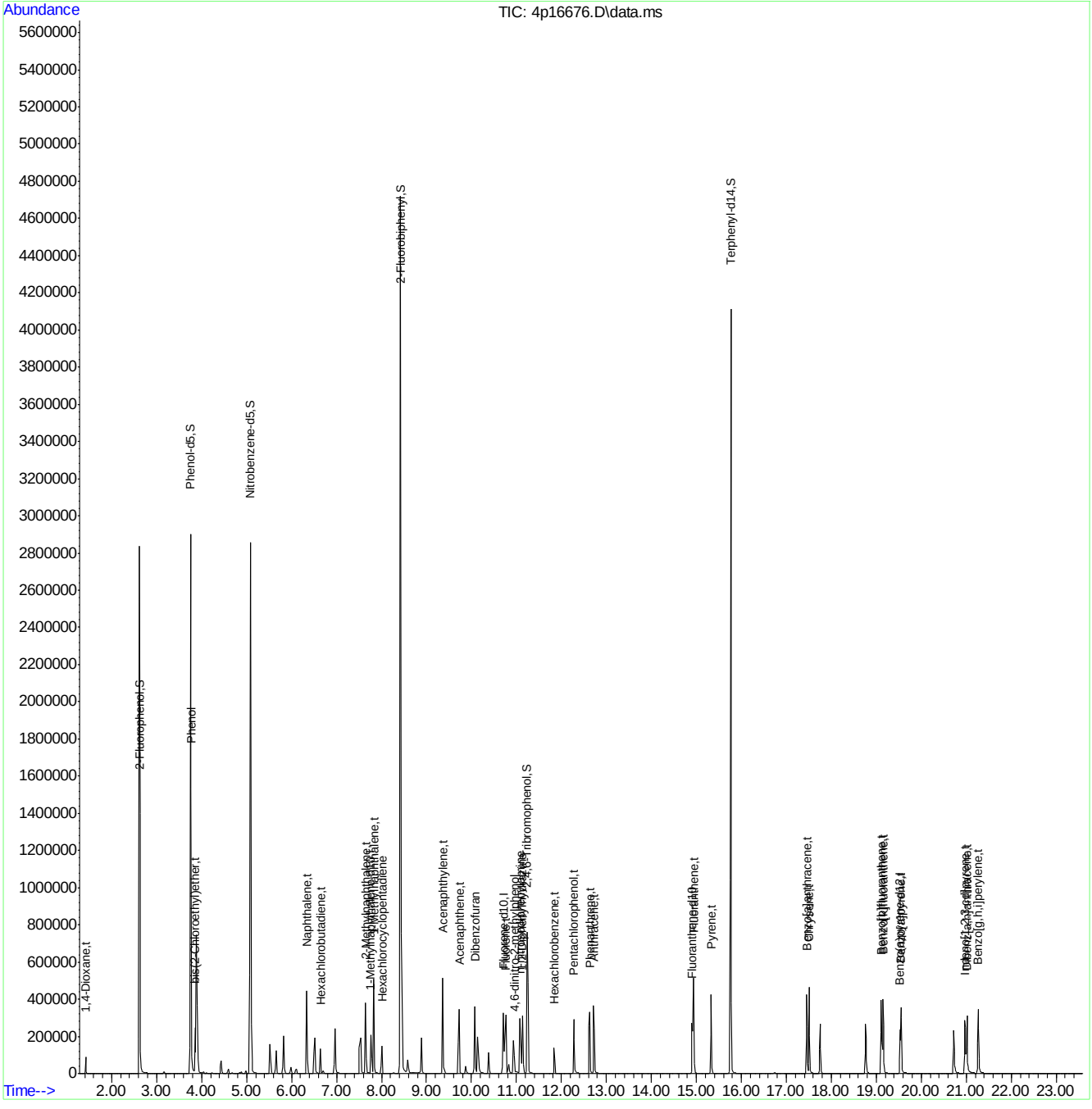
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16676.D
Acq On : 6 Jun 2016 1:49 pm
Operator : linseyk
Sample : ic887-5
Misc : op94376a,e4p887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 15:04:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integration Approval Summary

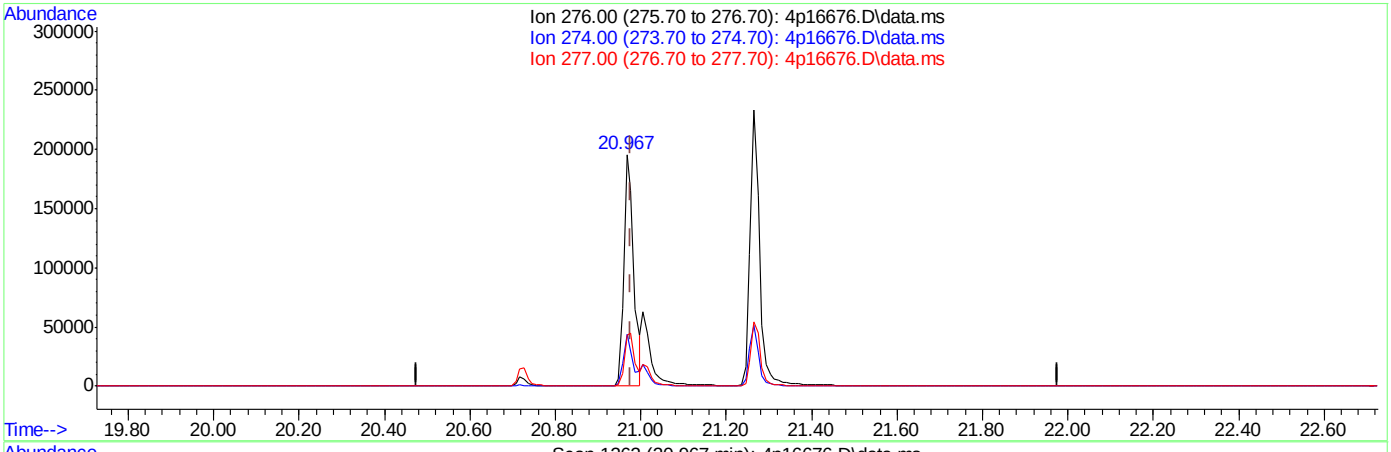
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16676.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 13:49	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

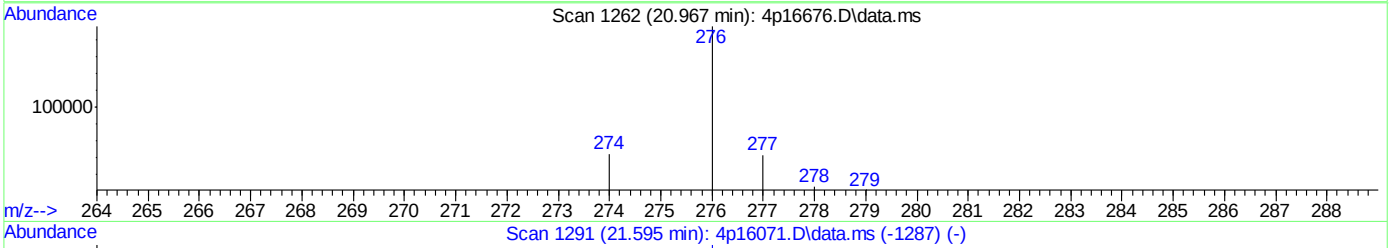
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

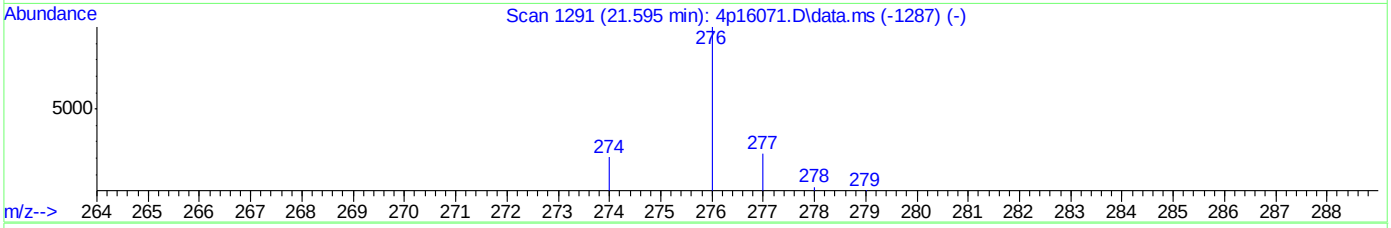
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16676.D
Acq On : 6 Jun 2016 1:49 pm
Operator : linseyk
Sample : ic887-5
Misc : op94376a,e4p887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 14:54:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16676.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.967min (-0.010) 3.38ppm

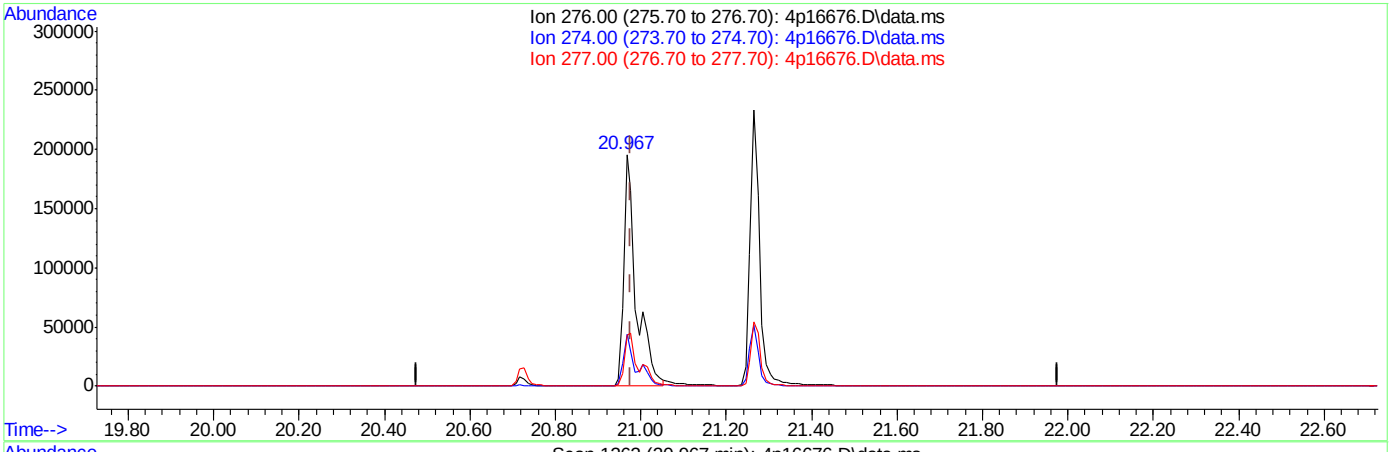
response 311476

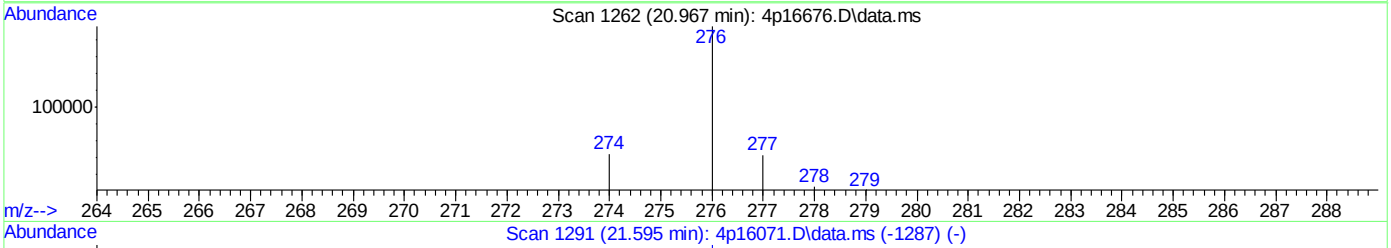
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	21.77
277.00	25.70	21.29
0.00	0.00	0.00

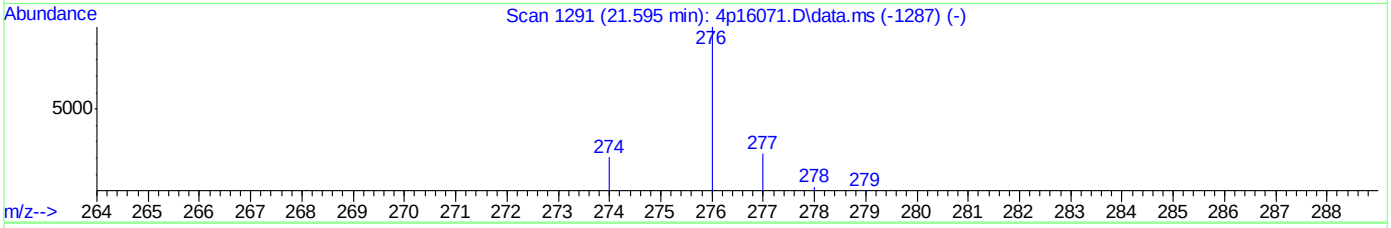
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16676.D
Acq On : 6 Jun 2016 1:49 pm
Operator : linseyk
Sample : ic887-5
Misc : op94376a,e4p887
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 06 14:54:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16676.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.967min (-0.010) 4.32ppm m

response 397850

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	22.50
277.00	25.70	21.83
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16677.D
Acq On : 6 Jun 2016 2:19 pm
Operator : linseyk
Sample : ic887-2.5
Misc : op94376a,e4p887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 06 15:05:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.763	150	165682	4.00	ppm	-0.02
13) Fluorene-d10	10.711	176	242175	4.00	ppm	0.00
23) Fluoranthene-d10	14.901	212	340044	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.524	264	238884	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.628	112	946423	39.85	ppm	0.00
Spiked Amount 50.000			Recovery = 79.70%			
4) Phenol-d5	3.750	99	1687489	40.03	ppm	0.00
Spiked Amount 50.000			Recovery = 80.06%			
7) Nitrobenzene-d5	5.064	82	1181453	38.39	ppm	-0.02
Spiked Amount 50.000			Recovery = 76.78%			
14) 2-Fluorobiphenyl	8.427	172	2925127	65.02	ppm	0.00
Spiked Amount 50.000			Recovery = 130.04%			
22) 2,4,6-Tribromophenol	11.234	330	366664	61.99	ppm	0.00
Spiked Amount 50.000			Recovery = 123.98%			
30) Terphenyl-d14	15.762	244	2139174	43.81	ppm	0.00
Spiked Amount 50.000			Recovery = 87.62%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.422	88	30818	2.40	ppm #	66
5) Phenol	3.768	94	441103	9.47	ppm #	86
6) bis(2-Chloroethyl)ether	3.854	93	74286	2.25	ppm	80
8) Naphthalene	6.345	128	253306	2.28	ppm	95
9) Hexachlorobutadiene	6.650	225	37667	1.96	ppm	87
10) 2-Methylnaphthalene	7.648	141	140683	2.73	ppm	80
11) 1-Methylnaphthalene	7.831	141	160754	2.42	ppm	79
12) Hexachlorocyclopentadiene	8.015	237	57044	3.65	ppm	97
15) Acenaphthylene	9.367	152	264051	3.52	ppm	93
16) Acenaphthene	9.733	153	127236	2.39	ppm	82
17) Dibenzofuran	10.077	168	247379	3.63	ppm	72
18) Fluorene	10.760	166	144977	2.30	ppm	87
19) 4,6-dinitro-2-methylph...	10.959	198	77090	18.37	ppm	87
20) n-nitrosodiphenylamine	11.083	169	115329	3.93	ppm	83
21) 1,2-Diphenylhydrazine	11.129	77	178150	3.18	ppm	95
24) Hexachlorobenzene	11.838	284	49028	2.42	ppm #	67
25) Pentachlorophenol	12.268	266	98586	11.97	ppm	70
26) Phenanthrene	12.630	178	235371	2.26	ppm	98
27) Anthracene	12.733	178	237821	2.48	ppm	97
28) Fluoranthene	14.936	202	258464	2.39	ppm	98
29) Pyrene	15.332	202	260974	2.39	ppm	99
31) Benzo[a]anthracene	17.450	228	177952	2.20	ppm	90
32) Chrysene	17.508	228	219042	2.37	ppm	96
34) Benzo[b]fluoranthene	19.110	252	208728	2.36	ppm	99
35) Benzo[k]fluoranthene	19.145	252	186489	2.37	ppm	89
36) Benzo[a]pyrene	19.559	252	183988	2.37	ppm	99
37) Indeno[1,2,3-cd]pyrene	20.975	276	199663m	2.19	ppm	
38) Dibenz[a,h]anthracene	21.013	278	164397	2.23	ppm	99
39) Benzo[g,h,i]perylene	21.263	276	184829	2.33	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16677.D
Acq On : 6 Jun 2016 2:19 pm
Operator : linseyk
Sample : ic887-2.5
Misc : op94376a,e4p887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 06 15:05:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

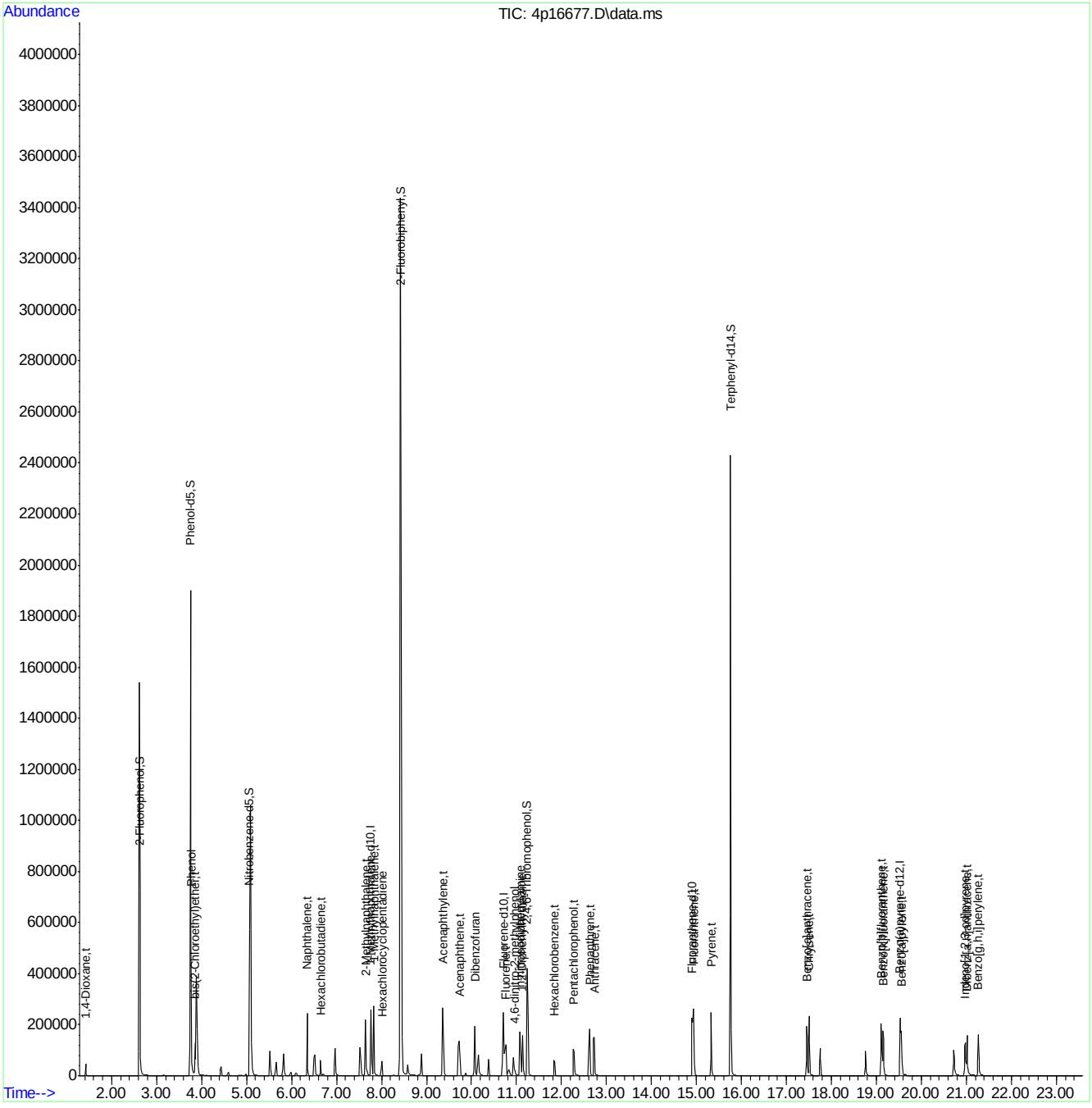
7.6.46

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16677.D
Acq On : 6 Jun 2016 2:19 pm
Operator : linseyk
Sample : ic887-2.5
Misc : op94376a,e4p887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 06 15:05:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integration Approval Summary

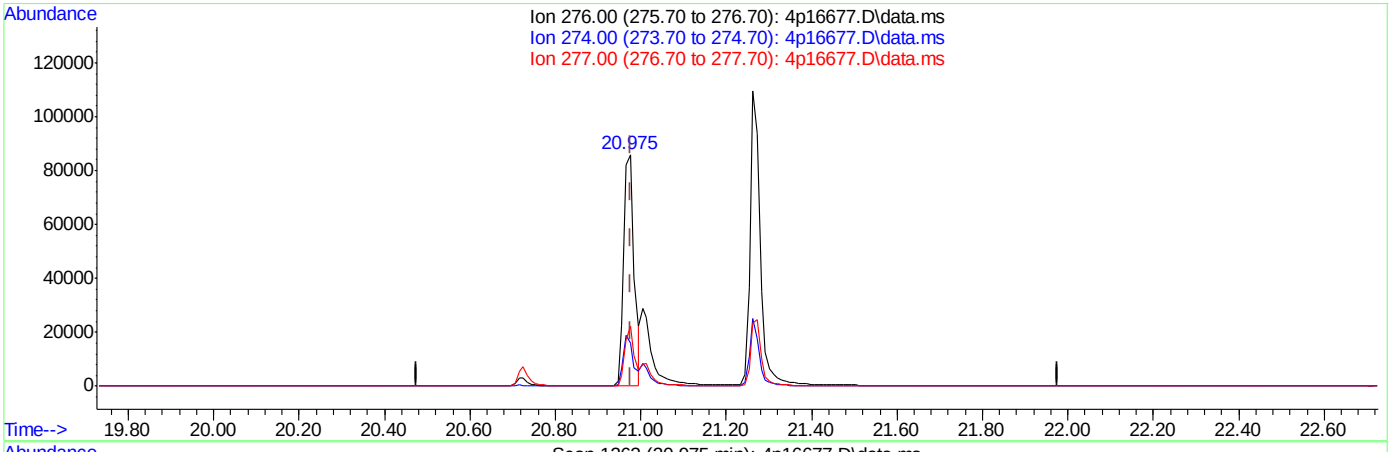
Sample Number:	E4P887-IC887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16677.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 14:19	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

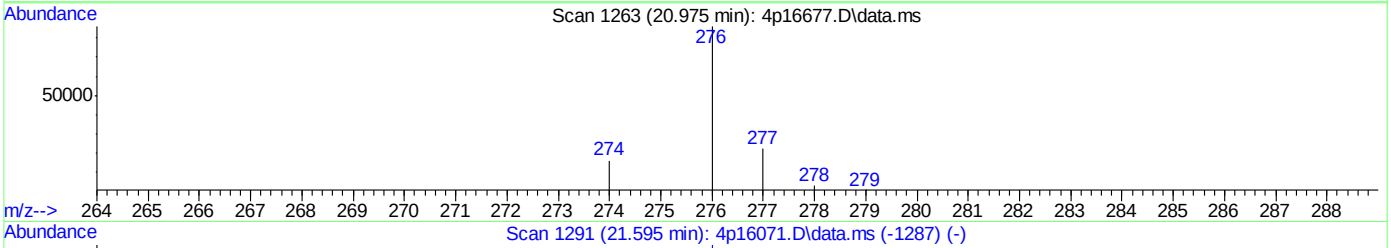
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

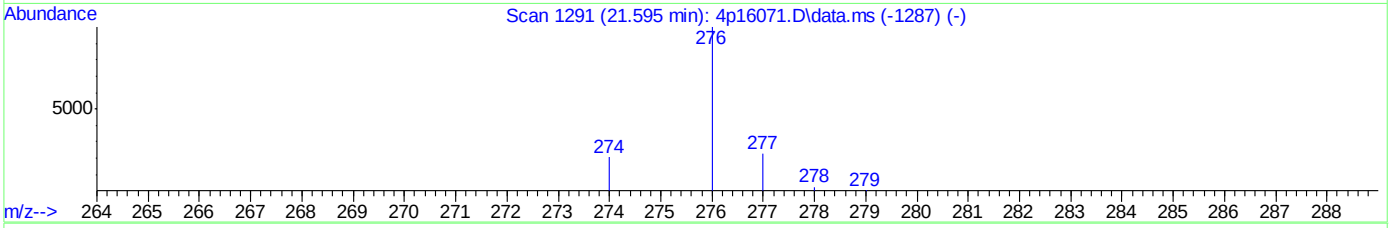
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16677.D
Acq On : 6 Jun 2016 2:19 pm
Operator : linseyk
Sample : ic887-2.5
Misc : op94376a,e4p887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 06 14:54:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16677.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 1.60ppm

response 146521

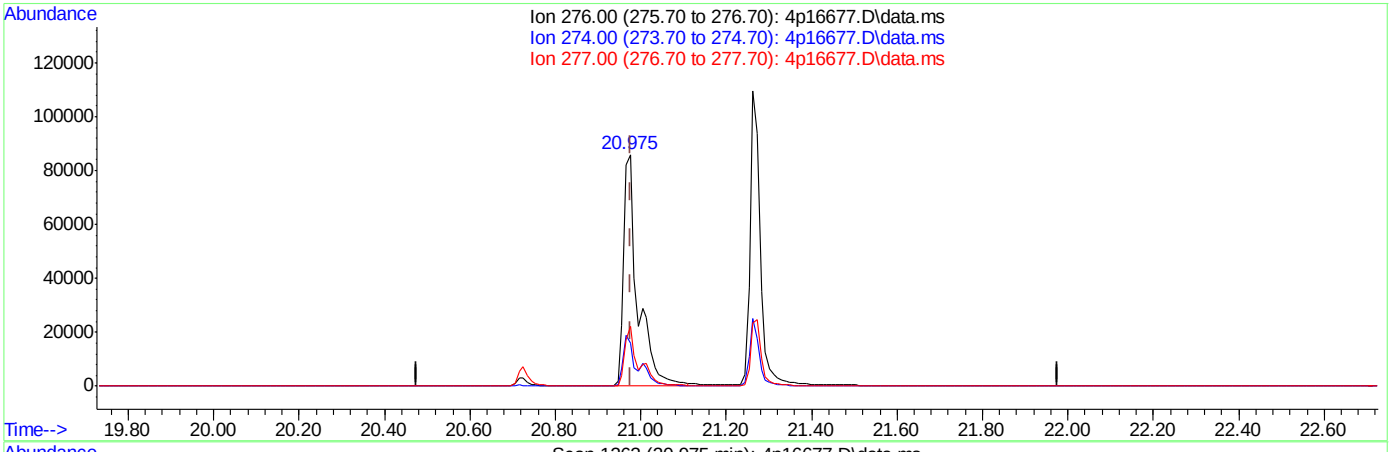
Ion	Exp%	Act%
276.00	100	100
274.00	18.30	17.82
277.00	25.70	25.86
0.00	0.00	0.00

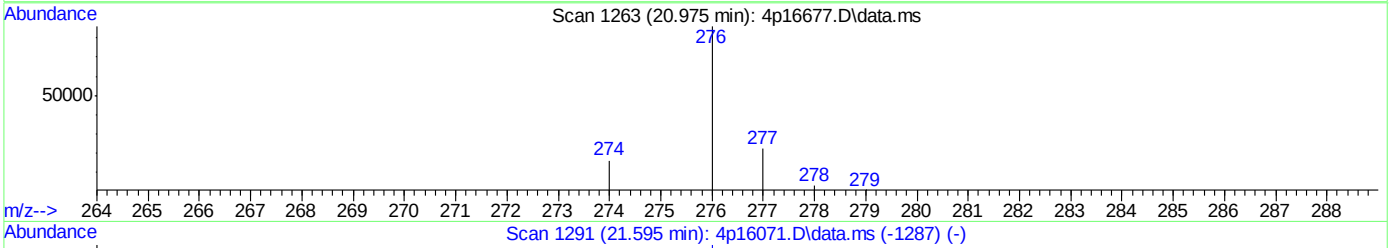
SGS ACCUTEST JC23443

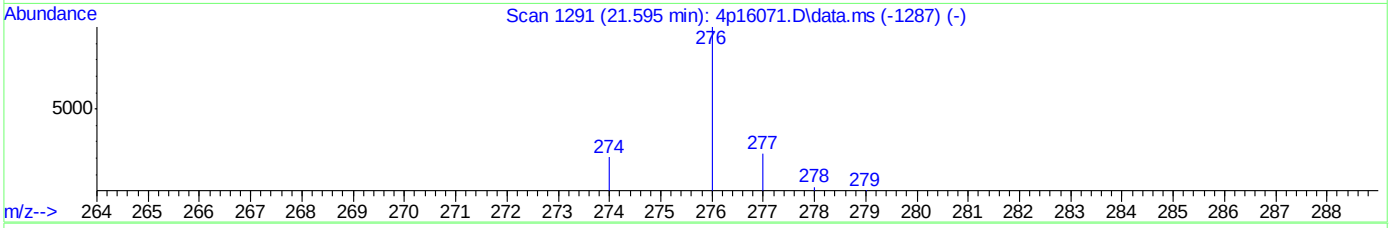
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16677.D
Acq On : 6 Jun 2016 2:19 pm
Operator : linseyk
Sample : ic887-2.5
Misc : op94376a,e4p887
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 06 14:54:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 14:53:49 2016
Response via : Initial Calibration







TIC: 4p16677.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.975min (-0.002) 2.19ppm m

response 199663

Ion	Exp%	Act%
276.00	100	100
274.00	18.30	18.72
277.00	25.70	25.95
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16678.D
Acq On : 6 Jun 2016 2:49 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 06 15:16:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	7.762	150	166306	4.00 ppm	0.00
13) Fluorene-d10	10.711	176	196073	4.00 ppm	0.00
23) Fluoranthene-d10	14.905	212	300747	4.00 ppm	0.00
33) Benzo(a)pyrene-d12	19.530	264	187947	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
14) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
22) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
30) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
5) Phenol	3.767	94	148801	3.48 ppm	# 85
19) 4,6-dinitro-2-methylph...	10.959	198	17477	4.31 ppm	93
25) Pentachlorophenol	12.272	266	26708	4.10 ppm	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.47

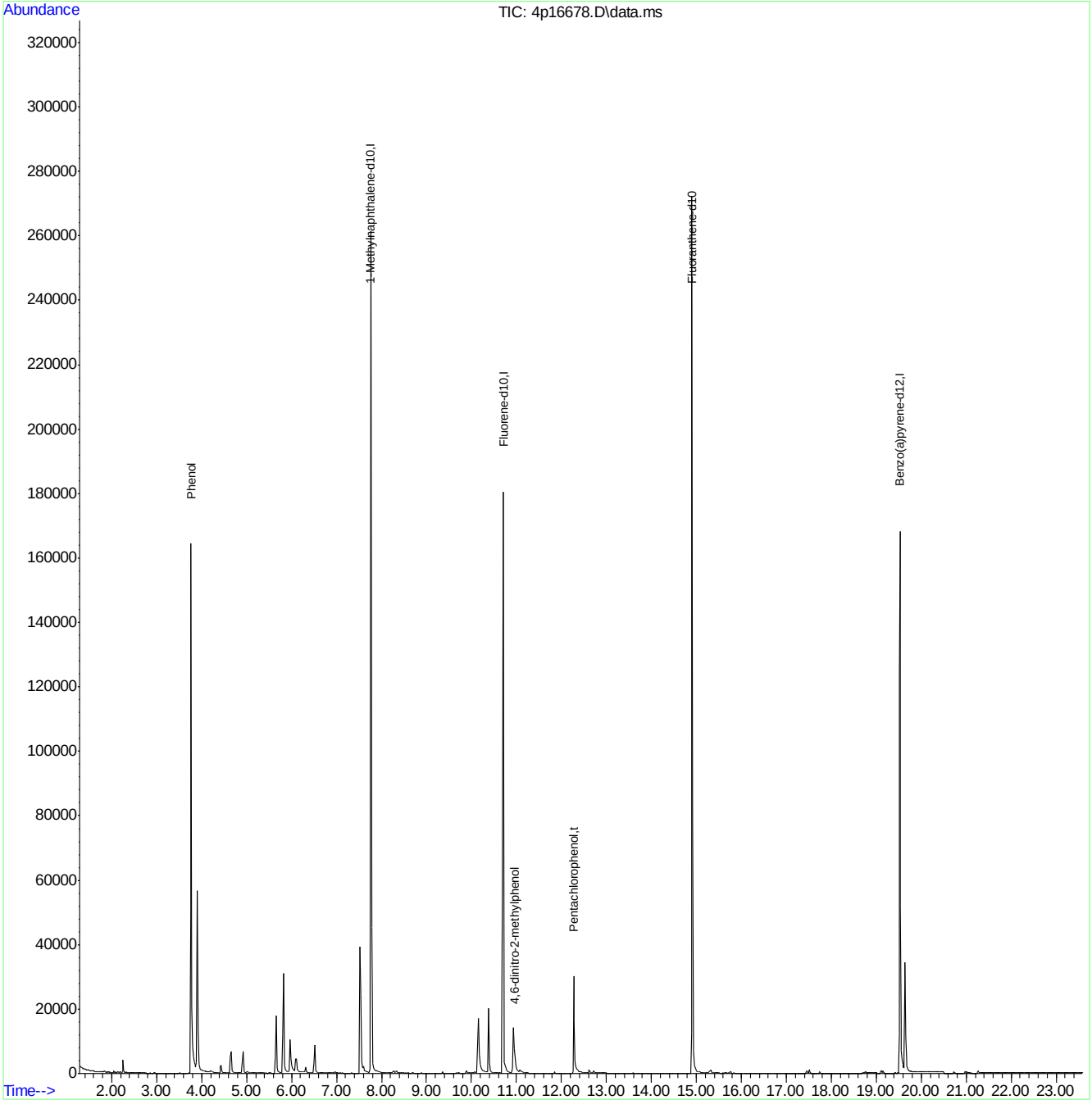
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16678.D
Acq On : 6 Jun 2016 2:49 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 06 15:16:25 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration



M4P887SIM.M Mon Jun 06 15:17:01 2016 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Kristi Schollenberger 06/06/16 18:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16679.D
Acq On : 6 Jun 2016 3:19 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 15:45:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	7.762	150	201495	4.00 ppm	0.00
13) Fluorene-d10	10.711	176	243000	4.00 ppm	0.00
23) Fluoranthene-d10	14.905	212	334707	4.00 ppm	0.00
33) Benzo(a)pyrene-d12	19.528	264	191849	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
14) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
22) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
30) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-Dioxane	1.435	88	12653	0.81 ppm	# 36
6) bis(2-Chloroethyl)ether	3.854	93	40190	1.02 ppm	88
8) Naphthalene	6.344	128	134299	1.01 ppm	97
9) Hexachlorobutadiene	6.650	225	18643	0.82 ppm	94
10) 2-Methylnaphthalene	7.648	141	68316	0.96 ppm	94
15) Acenaphthylene	9.367	152	114643	1.22 ppm	98
16) Acenaphthene	9.733	153	63593	1.25 ppm	96
17) Dibenzofuran	10.077	168	114493	1.30 ppm	85
18) Fluorene	10.760	166	65851	1.05 ppm	97
20) n-nitrosodiphenylamine	11.083	169	48826	1.32 ppm	94
21) 1,2-Diphenylhydrazine	11.133	77	74009	1.17 ppm	82
24) Hexachlorobenzene	11.842	284	21911	1.12 ppm	74
26) Phenanthrene	12.616	178	111116	1.22 ppm	87
27) Anthracene	12.719	178	95184	1.08 ppm	91
28) Fluoranthene	14.939	202	108650	1.04 ppm	94
29) Pyrene	15.335	202	102873	1.07 ppm	94
31) Benzo[a]anthracene	17.454	228	83563	1.22 ppm	99
32) Chrysene	17.512	228	93836	1.13 ppm	96
34) Benzo[b]fluoranthene	19.114	252	59634	0.88 ppm	96
35) Benzo[k]fluoranthene	19.148	252	71250	1.21 ppm	94
36) Benzo[a]pyrene	19.551	252	62521	1.02 ppm	93
37) Indeno[1,2,3-cd]pyrene	20.969	276	66608m	0.98 ppm	
38) Dibenz[a,h]anthracene	21.017	278	54267	0.98 ppm	92
39) Benzo[g,h,i]perylene	21.267	276	63559	1.02 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.48

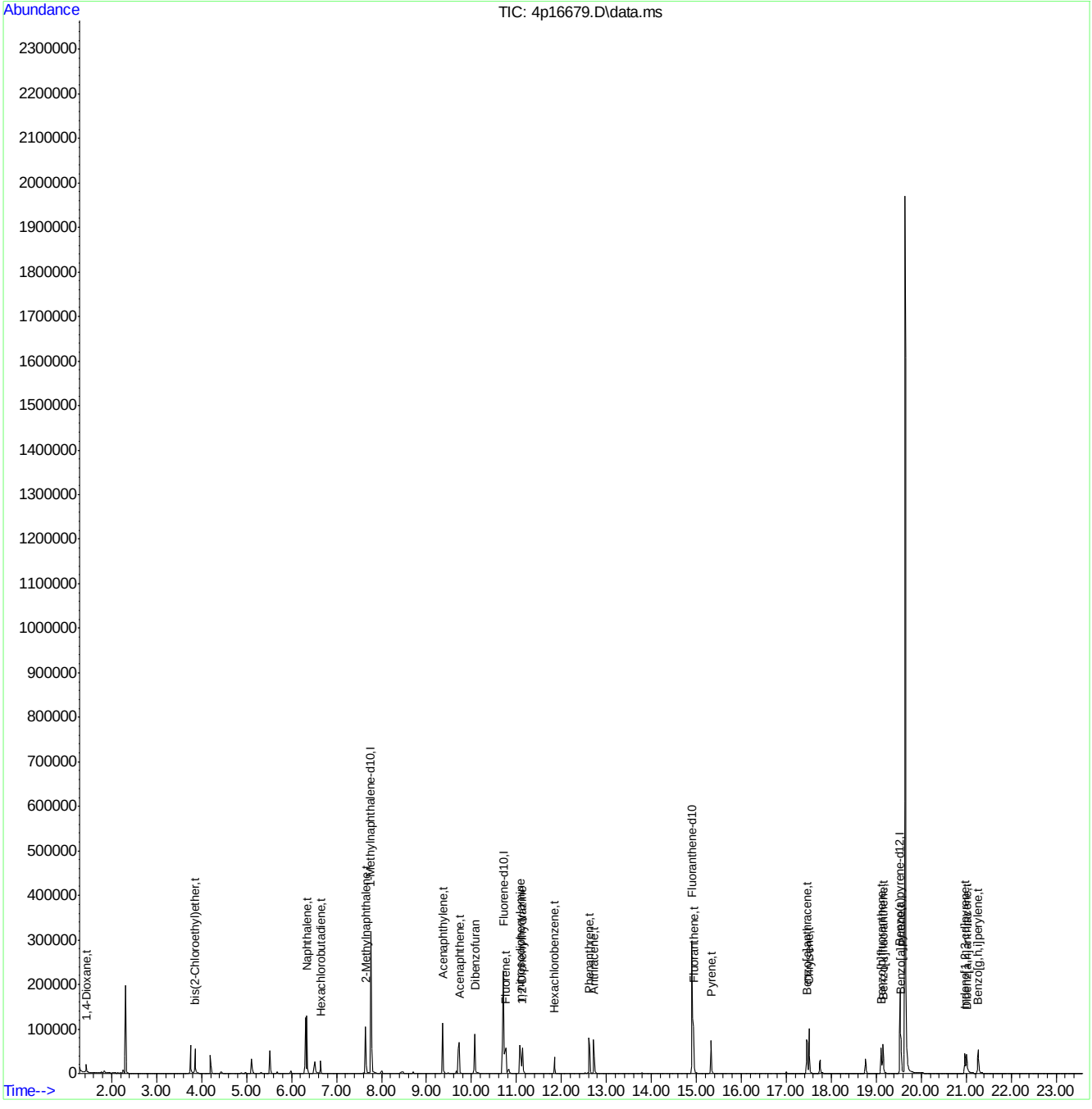
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16679.D
Acq On : 6 Jun 2016 3:19 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 15:45:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration



M4P887SIM.M Mon Jun 06 15:45:31 2016 Page: 2

Manual Integration Approval Summary

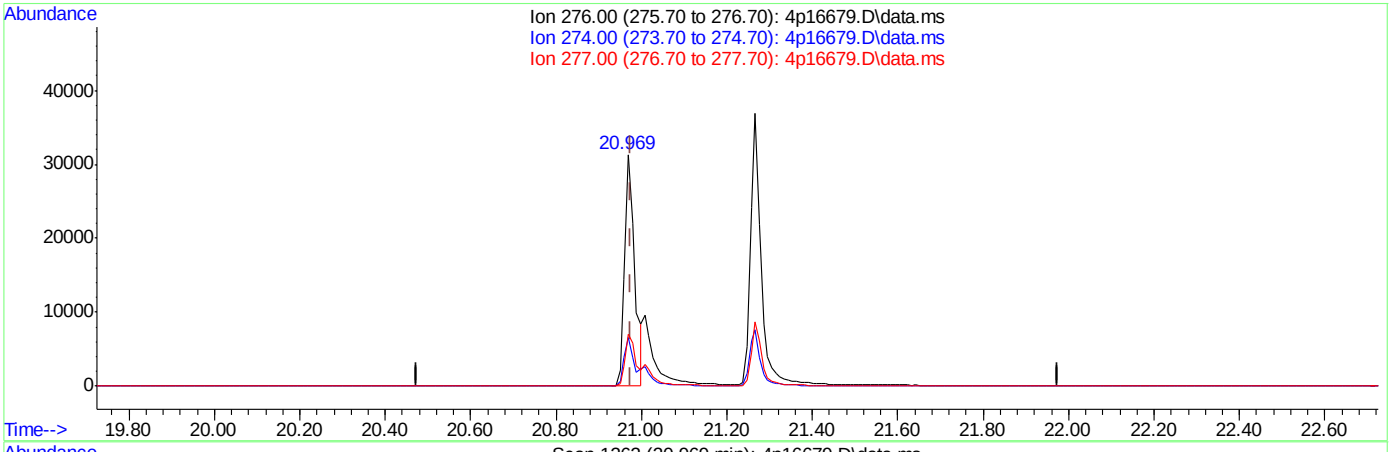
Sample Number:	E4P887-ICV887	**Method:**	SW846 8270D BY SIM
Lab FileID:	4P16679.D	**Analyst approved:**	06/06/16 15:58 Linsey Kirschmann
Injection Time:	06/06/16 15:19	**Supervisor approved:**	06/06/16 18:07 Kristi Schollenberger

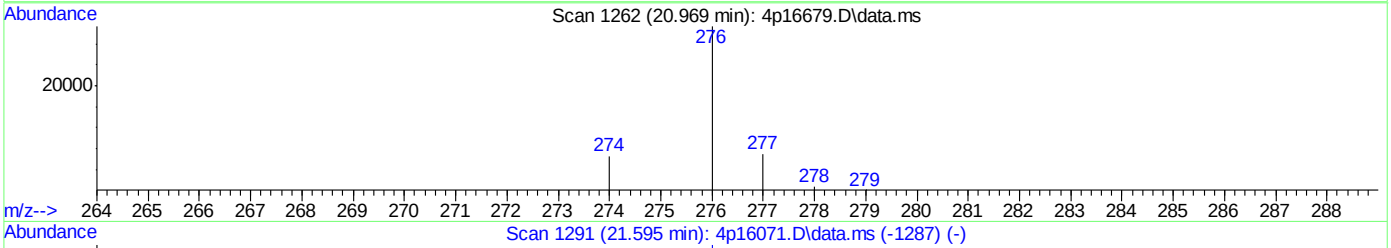
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.97	Split peak

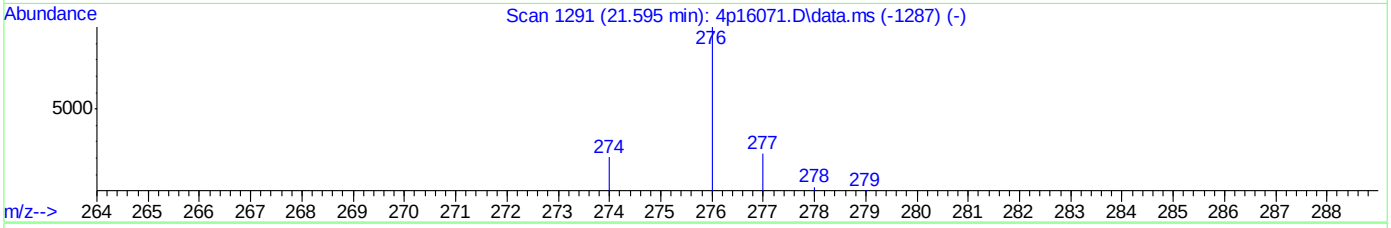
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16679.D
Acq On : 6 Jun 2016 3:19 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 15:43:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration







TIC: 4p16679.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.969min (-0.006) 0.75ppm

response 50960

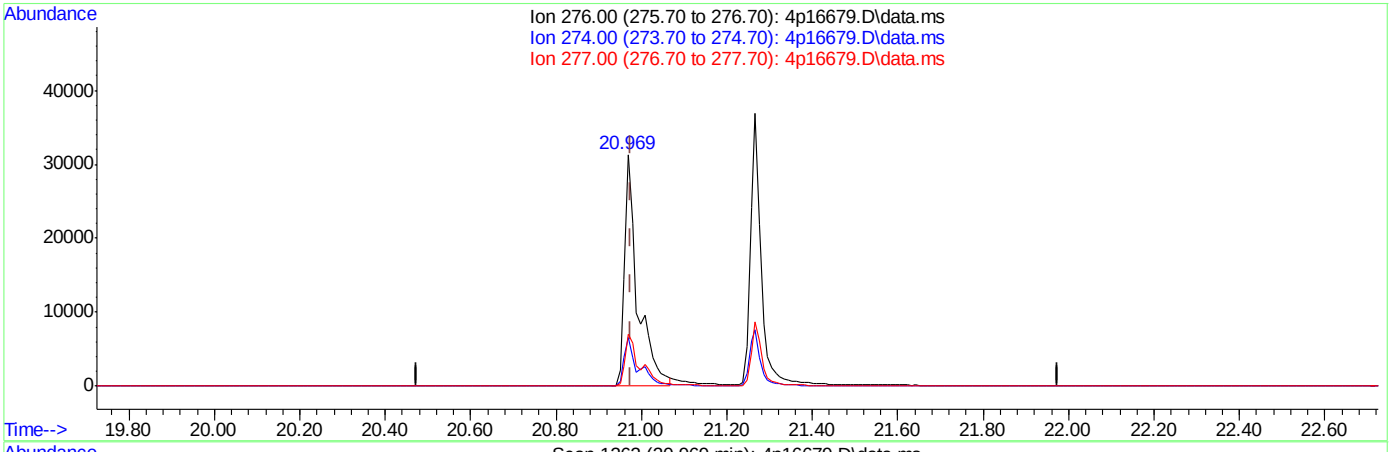
Ion	Exp%	Act%
276.00	100	100
274.00	18.70	19.88
277.00	24.90	21.87
0.00	0.00	0.00

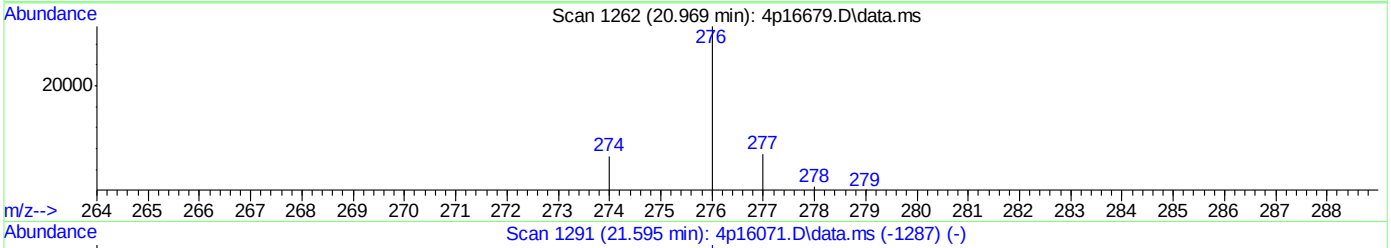
SGS ACCUTEST JC23443

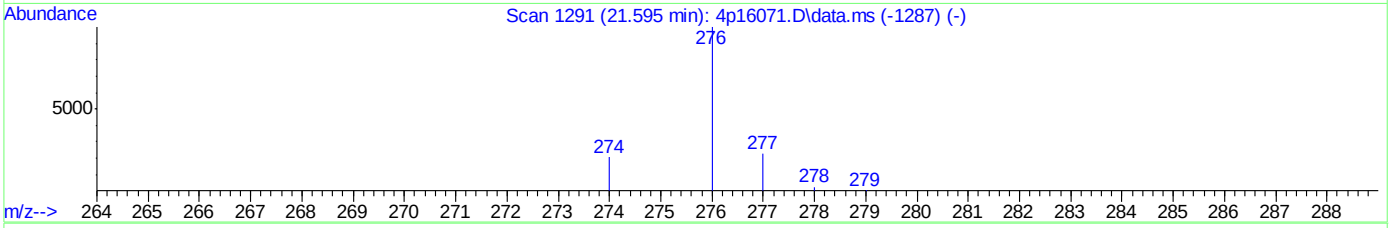
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4P887\
Data File : 4p16679.D
Acq On : 6 Jun 2016 3:19 pm
Operator : linseyk
Sample : icv887-1
Misc : op94376a,e4p887
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 15:43:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 06 15:07:18 2016
Response via : Initial Calibration







TIC: 4p16679.D\data.ms

(37) Indeno[1,2,3-cd]pyrene (t)

20.969min (-0.006) 0.98ppm m

response 66608

Ion	Exp%	Act%
276.00	100	100
274.00	18.70	20.87
277.00	24.90	22.47
0.00	0.00	0.00

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P944\
Data File : 4p17735.D
Acq On : 12 Jul 2016 12:21 pm
Operator : ashleyd
Sample : cc887-0.5
Misc : op95217a,e4p944
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 12:46:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 12 12:45:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.269	150	139417	4.00	ppm	0.00
13) Fluorene-d10	10.185	176	170257	4.00	ppm	0.00
23) Fluoranthene-d10	14.418	212	288537	4.00	ppm	0.00
33) Benzo(a)pyrene-d12	19.076	264	191696	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.294	112	185794	9.73	ppm	-0.19
Spiked Amount 50.000			Recovery = 19.46%			
4) Phenol-d5	3.376	99	310130	9.62	ppm	-0.14
Spiked Amount 50.000			Recovery = 19.24%			
7) Nitrobenzene-d5	4.624	82	257568	10.94	ppm	-0.12
Spiked Amount 50.000			Recovery = 21.88%			
14) 2-Fluorobiphenyl	7.934	172	524048	11.46	ppm	-0.08
Spiked Amount 50.000			Recovery = 22.92%			
22) 2,4,6-Tribromophenol	10.731	330	64570	13.73	ppm	0.05
Spiked Amount 50.000			Recovery = 27.46%			
30) Terphenyl-d14	15.295	244	432573	11.96	ppm	0.00
Spiked Amount 50.000			Recovery = 23.92%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.195	88	5510	0.51	ppm #	34
5) Phenol	3.393	94	77742	2.17	ppm #	76
6) bis(2-Chloroethyl)ether	3.462	93	13945	0.51	ppm #	54
8) Naphthalene	5.867	128	39524	0.43	ppm	100
9) Hexachlorobutadiene	6.172	225	6559	0.42	ppm	87
10) 2-Methylnaphthalene	7.178	141	19415	0.40	ppm	73
11) 1-Methylnaphthalene	7.338	141	25428	0.42	ppm	98
12) Hexachlorocyclopentadiene	7.521	237	5840	0.56	ppm	93
15) Acenaphthylene	8.873	152	30105	0.46	ppm	85
16) Acenaphthene	9.217	153	25929	0.73	ppm	79
17) Dibenzofuran	9.584	168	31708	0.51	ppm	74
18) Fluorene	10.235	166	27391	0.62	ppm #	65
19) 4,6-dinitro-2-methylph...	10.483	198	7495	2.54	ppm	81
20) n-nitrosodiphenylamine	10.607	169	16089	0.62	ppm	79
21) 1,2-Diphenylhydrazine	10.632	77	19233	0.44	ppm	88
24) Hexachlorobenzene	11.337	284	8563	0.51	ppm	76
25) Pentachlorophenol	11.784	266	19206	3.13	ppm	86
26) Phenanthrene	12.111	178	36373	0.46	ppm	93
27) Anthracene	12.215	178	35769	0.47	ppm	97
28) Fluoranthene	14.435	202	41549	0.46	ppm	98
29) Pyrene	14.831	202	40510	0.49	ppm	91
31) Benzo[a]anthracene	17.000	228	25448	0.43	ppm	100
32) Chrysene	17.057	228	39113	0.55	ppm	100
34) Benzo[b]fluoranthene	18.662	252	30833	0.45	ppm	98
35) Benzo[k]fluoranthene	18.708	252	33243	0.57	ppm	98
36) Benzo[a]pyrene	19.099	252	30508	0.50	ppm	97
37) Indeno[1,2,3-cd]pyrene	20.533	276	33232	0.49	ppm	99
38) Dibenz[a,h]anthracene	20.572	278	27144	0.49	ppm	83
39) Benzo[g,h,i]perylene	20.821	276	30932	0.50	ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P944\
Data File : 4p17735.D
Acq On : 12 Jul 2016 12:21 pm
Operator : ashleyd
Sample : cc887-0.5
Misc : op95217a,e4p944
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 12:46:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 12 12:45:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

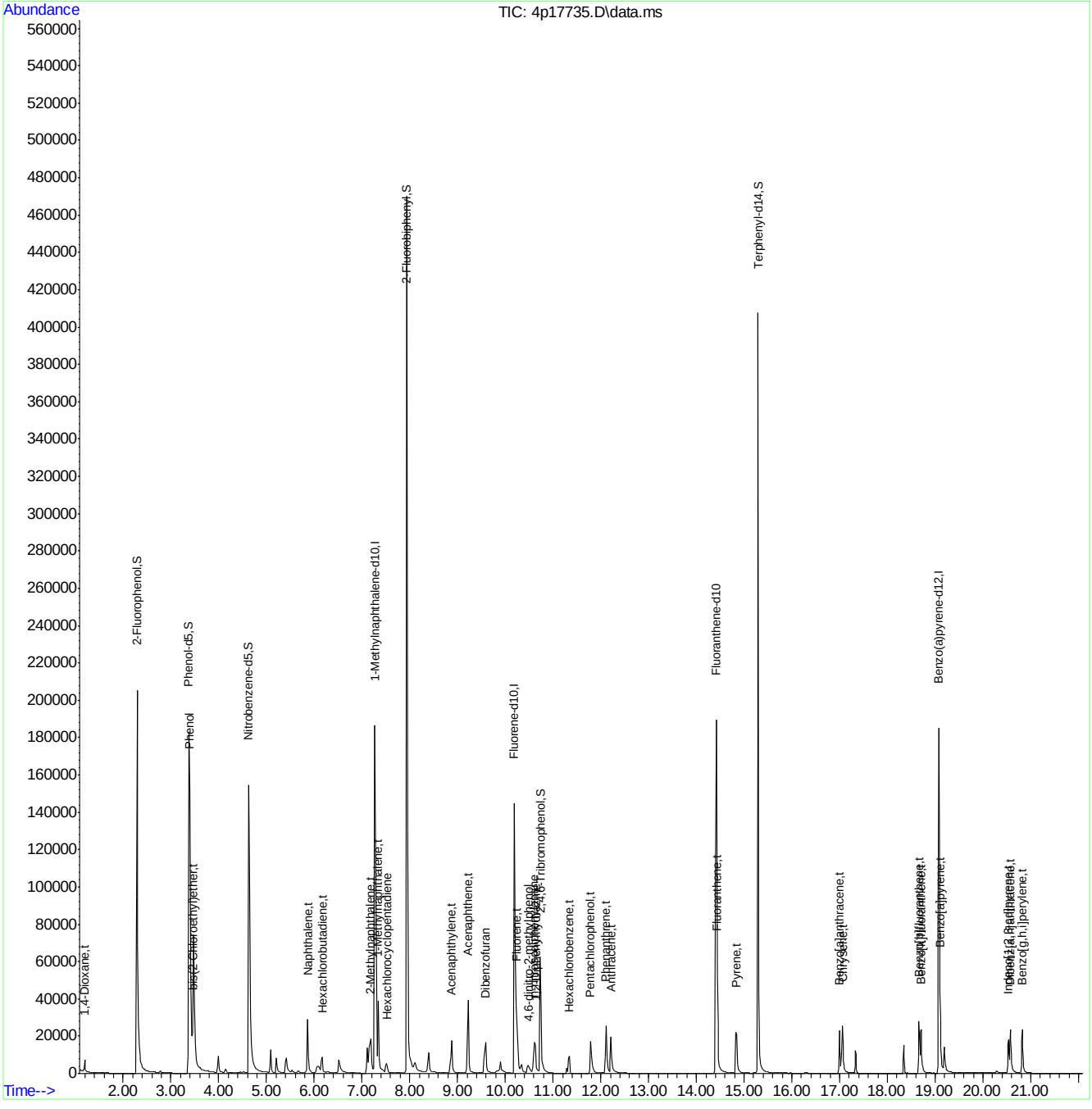
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P944\
Data File : 4p17735.D
Acq On : 12 Jul 2016 12:21 pm
Operator : ashleyd
Sample : cc887-0.5
Misc : op95217a,e4p944
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 12:46:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 12 12:45:55 2016
Response via : Initial Calibration



M4P887SIM.M Tue Jul 12 15:09:14 2016 Page: 3

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17769.D
Acq On : 13 Jul 2016 5:16 pm
Operator : ashleyd
Sample : cc887-0.5
Misc : op95217a,e4p946
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 16:56:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 16:56:26 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.258	150	134164	4.00	ppm	0.00
13) Fluorene-d10	10.172	176	222269	4.00	ppm	0.00
23) Fluoranthene-d10	14.378	212	320891	4.00	ppm	-0.02
33) Benzo(a)pyrene-d12	19.048	264	220837	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	2.281	112	201524	10.97	ppm	-0.20
Spiked Amount 50.000			Recovery = 21.94%			
4) Phenol-d5	3.359	99	330449	10.65	ppm	-0.15
Spiked Amount 50.000			Recovery = 21.30%			
7) Nitrobenzene-d5	4.598	82	263882	11.65	ppm	-0.14
Spiked Amount 50.000			Recovery = 23.30%			
14) 2-Fluorobiphenyl	7.923	172	542106	9.08	ppm	-0.08
Spiked Amount 50.000			Recovery = 18.16%			
22) 2,4,6-Tribromophenol	10.708	330	72261	11.77	ppm	0.04
Spiked Amount 50.000			Recovery = 23.54%			
30) Terphenyl-d14	15.273	244	462593	11.50	ppm	0.00
Spiked Amount 50.000			Recovery = 23.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.181	88	5957	0.57	ppm	94
5) Phenol	3.376	94	86064	2.49	ppm #	61
6) bis(2-Chloroethyl)ether	3.427	93	15588	0.59	ppm #	49
8) Naphthalene	5.840	128	44126	0.50	ppm	99
9) Hexachlorobutadiene	6.146	225	7551	0.50	ppm	95
10) 2-Methylnaphthalene	7.143	141	23483	0.50	ppm	76
11) 1-Methylnaphthalene	7.304	141	24822	0.42	ppm	74
12) Hexachlorocyclopentadiene	7.487	237	7910	0.83	ppm	93
15) Acenaphthylene	8.839	152	42147	0.49	ppm	89
16) Acenaphthene	9.183	153	27236	0.58	ppm #	64
17) Dibenzofuran	9.549	168	38836	0.48	ppm	96
18) Fluorene	10.221	166	28906	0.50	ppm	88
19) 4,6-dinitro-2-methylph...	10.470	198	9930	2.56	ppm	93
20) n-nitrosodiphenylamine	10.582	169	17537	0.52	ppm #	72
21) 1,2-Diphenylhydrazine	10.603	77	25734	0.45	ppm	98
24) Hexachlorobenzene	11.297	284	9066	0.48	ppm	100
25) Pentachlorophenol	11.779	266	17228	2.55	ppm	96
26) Phenanthrene	12.089	178	41018	0.47	ppm	95
27) Anthracene	12.192	178	39668	0.47	ppm	95
28) Fluoranthene	14.412	202	47457	0.47	ppm	98
29) Pyrene	14.808	202	47234	0.51	ppm	95
31) Benzo[a]anthracene	16.977	228	32669	0.50	ppm	96
32) Chrysene	17.025	228	43043	0.54	ppm	95
34) Benzo[b]fluoranthene	18.645	252	33431	0.43	ppm	91
35) Benzo[k]fluoranthene	18.679	252	40484	0.60	ppm	96
36) Benzo[a]pyrene	19.082	252	35761	0.51	ppm	99
37) Indeno[1,2,3-cd]pyrene	20.505	276	39609	0.50	ppm	95
38) Dibenz[a,h]anthracene	20.553	278	31682	0.50	ppm	82
39) Benzo[g,h,i]perylene	20.793	276	35447	0.50	ppm	98

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17769.D
Acq On : 13 Jul 2016 5:16 pm
Operator : ashleyd
Sample : cc887-0.5
Misc : op95217a,e4p946
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 16:56:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 16:56:26 2016
Response via : Initial Calibration

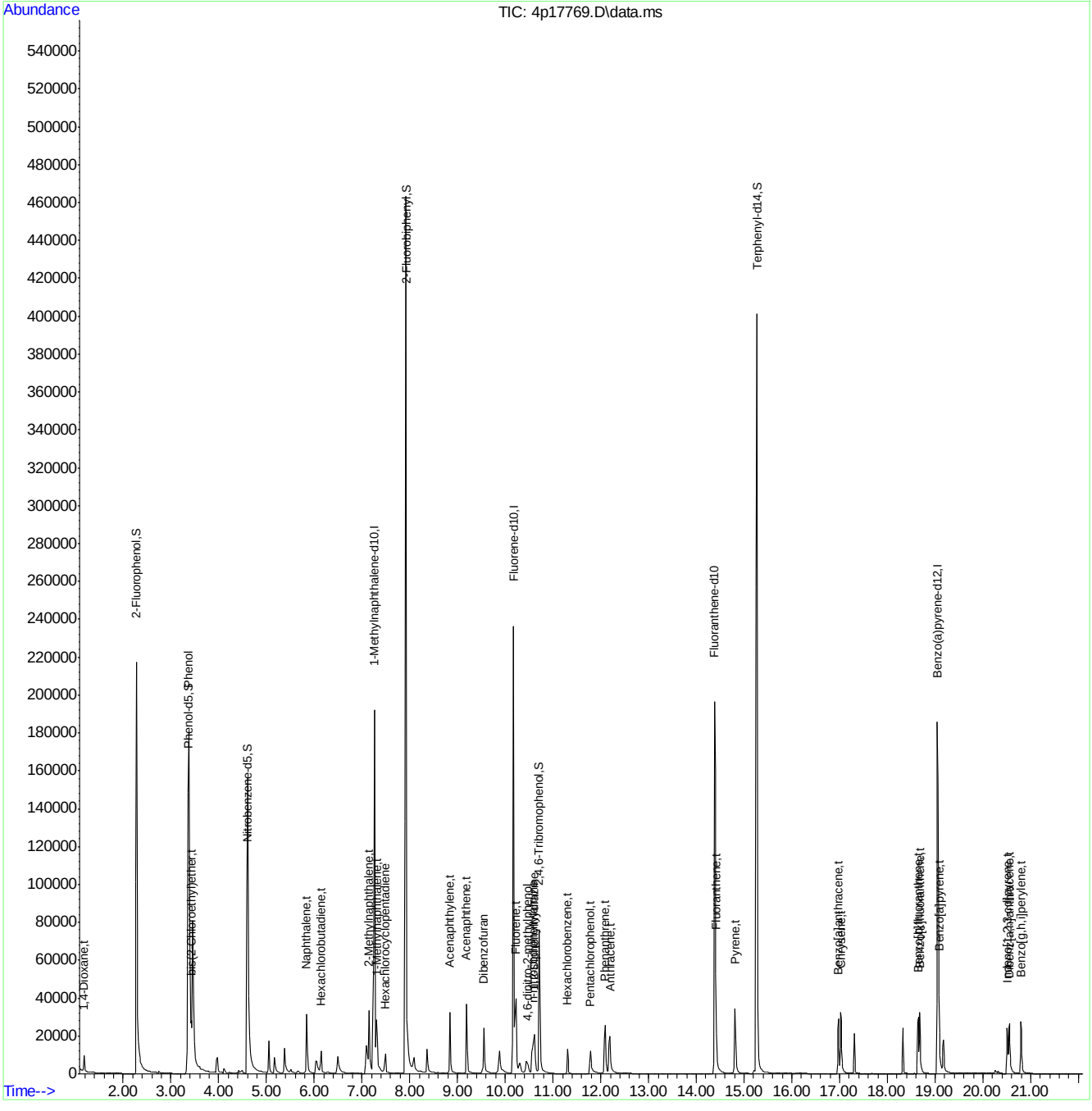
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4P946\
Data File : 4p17769.D
Acq On : 13 Jul 2016 5:16 pm
Operator : ashleyd
Sample : cc887-0.5
Misc : op95217a,e4p946
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 16:56:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4P887SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 16:56:26 2016
Response via : Initial Calibration



M4P887SIM.M Thu Jul 14 16:57:07 2016 Page: 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105688.D Vial: 2
Acq On : 28 Jun 2016 11:19 am Operator: ashleyd
Sample : ic4667-1 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:33:09 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:33:07 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	179512	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	627813	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	371505	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	596846	40.00	ppm	0.00
83) Chrysene-d12	14.23	240	429164	40.00	ppm	0.00
91) Perylene-d12	17.27	264	354316	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	179512	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	627813	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	371505	40.00	ppm	0.00
131) Phenanthrene-d10A	8.96	188	596846	40.00	ppm	0.00
146) Chrysene-d12A	14.23	240	429164	40.00	ppm	0.00
154) Perylene-d12A	17.27	264	354316	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	179512	40.00	ppm	0.00
160) Phenanthrene-d10b	8.96	188	596846	40.00	ppm	0.00
162) Chrysene-d12b	14.23	240	429164	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	627813	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	371505	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	627813	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	179512	40.00	ppm	0.00
175) Chrysene-d12c	14.23	240	429164	40.00	ppm	0.00
177) Chrysene-d12d	14.23	240	429164	40.00	ppm	0.00
179) Naphthalene-d8d	5.65	136	627813	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.74	112	7066	1.06	ppm	0.00
Spiked Amount 50.000			Recovery = 2.12%			
8) Phenol-d5	4.45	99	9528	1.17	ppm	-0.01
Spiked Amount 50.000			Recovery = 2.34%			
25) Nitrobenzene-d5	5.13	82	6397	1.20	ppm	0.00
Spiked Amount 50.000			Recovery = 2.40%			
51) 2-Fluorobiphenyl	6.45	172	10844	1.38	ppm	0.00
Spiked Amount 50.000			Recovery = 2.76%			
73) 2,4,6-Tribromophenol	7.96	330	705	0.81	ppm	0.00
Spiked Amount 50.000			Recovery = 1.62%			
85) Terphenyl-d14	12.02	244	9455	1.23	ppm	0.00
Spiked Amount 50.000			Recovery = 2.46%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.31	88	4474	1.18	ppm	96
3) Pyridine	2.64	79	9118	1.04	ppm	90
4) N-Nitrosodimethylamine	2.59	42	2703	1.00	ppm #	72
6) Indene	4.91	116	11943	1.60	ppm	99
7) Cumene	4.14	105	16559	1.36	ppm	97
9) Phenol	4.46	94	12361	1.41	ppm	95
10) Aniline	4.49	93	12845	1.33	ppm	44
11) bis(2-Chloroethyl)ether	4.53	93	7656	1.30	ppm	99
12) 2-Chlorophenol	4.57	128	7288	1.32	ppm	88
13) Decane	4.60	43	8093	1.63	ppm	97
14) 1,3-Dichlorobenzene	4.68	146	6837	1.22	ppm	89
15) 1,4-Dichlorobenzene	4.74	146	6603	1.25	ppm	97

(#) = qualifier out of range (m) = manual integration
P105688.D MP4667.M Tue Jun 28 18:34:16 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105688.D Vial: 2
Acq On : 28 Jun 2016 11:19 am Operator: ashleyd
Sample : ic4667-1 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:33:09 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:33:07 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.82	108	4183	1.05	ppm		90
17)	1,2-Dichlorobenzene	4.85	146	6375	1.36	ppm		99
18)	Acetophenone	5.02	105	9160	1.71	ppm		90
19)	2-Methylphenol	4.90	108	6238	1.28	ppm		97
20)	2,2'-oxybis(1-Chloropropan	4.92	121	2090	1.24	ppm	#	63
21)	3&4-Methylphenol	5.01	108	6785	1.48	ppm		97
22)	n-Nitroso-di-n-propylamine	5.01	70	4792	1.67	ppm		93
23)	Hexachloroethane	5.10	201	1634	0.92	ppm		92
26)	Nitrobenzene	5.14	77	6680	1.29	ppm		87
27)	Quinoline	5.90	129	11986	1.11	ppm		98
28)	Isophorone	5.31	82	12447	1.24	ppm		94
29)	2-Nitrophenol	5.37	139	2965	1.08	ppm		99
30)	2,4-Dimethylphenol	5.39	107	6339	1.36	ppm		90
31)	Benzoic acid	5.43	105	3184	0.66	ppm		81
32)	bis(2-Chloroethoxy)methane	5.46	93	8478	1.36	ppm		97
33)	2,4-Dichlorophenol	5.54	162	4504	1.10	ppm		86
34)	2,6-Dichlorophenol	5.70	162	4466	1.26	ppm		97
35)	1,3,5-Trichlorobenzene	5.38	180	5199	1.38	ppm		86
36)	1,2,4-Trichlorobenzene	5.60	180	4696	1.21	ppm		76
37)	1,2,3-Trichlorobenzene	5.76	180	5013	1.38	ppm		90
38)	Naphthalene	5.66	128	16666	1.47	ppm		94
39)	4-Chloroaniline	5.70	127	7322	1.39	ppm		98
40)	2,3-Dichloroaniline	6.39	161	6051	1.52	ppm		91
41)	Caprolactam	5.92	55	2945	1.00	ppm	#	78
42)	Hexachlorobutadiene	5.75	225	2161	1.13	ppm		98
43)	4-Chloro-3-methylphenol	6.04	107	5002	1.11	ppm		84
44)	2-Methylnaphthalene	6.16	141	9002	1.31	ppm		93
45)	1-Methylnaphthalene	6.24	142	11019	1.30	ppm		89
46)	Dimethylnaphthalene	6.68	156	9277	1.29	ppm		97
48)	Hexachlorocyclopentadiene	6.29	237	1539	0.78	ppm		92
49)	2,4,6-Trichlorophenol	6.38	196	2800	1.15	ppm		94
50)	2,4,5-Trichlorophenol	6.41	196	2902	1.07	ppm		89
52)	2-Chloronaphthalene	6.56	162	10252	1.47	ppm		90
53)	Biphenyl	6.54	154	13821	1.46	ppm		96
54)	2-Nitroaniline	6.64	65	3001	1.03	ppm	#	75
55)	Dimethylphthalate	6.80	163	9596	1.15	ppm		95
56)	Acenaphthylene	6.93	152	16067	1.31	ppm		96
57)	2,6-Dinitrotoluene	6.86	165	1668	0.76	ppm		90
58)	3-Nitroaniline	7.02	138	2739	0.88	ppm		84
59)	Acenaphthene	7.10	153	9858	1.33	ppm		81
60)	2,4-Dinitrophenol	7.12	184	493	0.37	ppm	#	43
61)	4-Nitrophenol	7.18	109	746	0.69	ppm	#	79
62)	Dibenzofuran	7.28	168	13587	1.34	ppm		93
63)	2,4-Dinitrotoluene	7.26	165	2015	0.69	ppm		89
64)	2,3,4,6-Tetrachlorophenol	7.41	232	1944	0.83	ppm		86
65)	Diethylphthalate	7.53	149	9836	1.13	ppm		96
66)	Fluorene	7.66	166	10606	1.36	ppm		99
67)	4-Chlorophenyl-phenylether	7.67	204	4513	1.26	ppm		91
68)	4-Nitroaniline	7.68	138	2515	0.85	ppm		79

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

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105688.D Vial: 2
Acq On : 28 Jun 2016 11:19 am Operator: ashleyd
Sample : ic4667-1 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:33:09 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:33:07 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

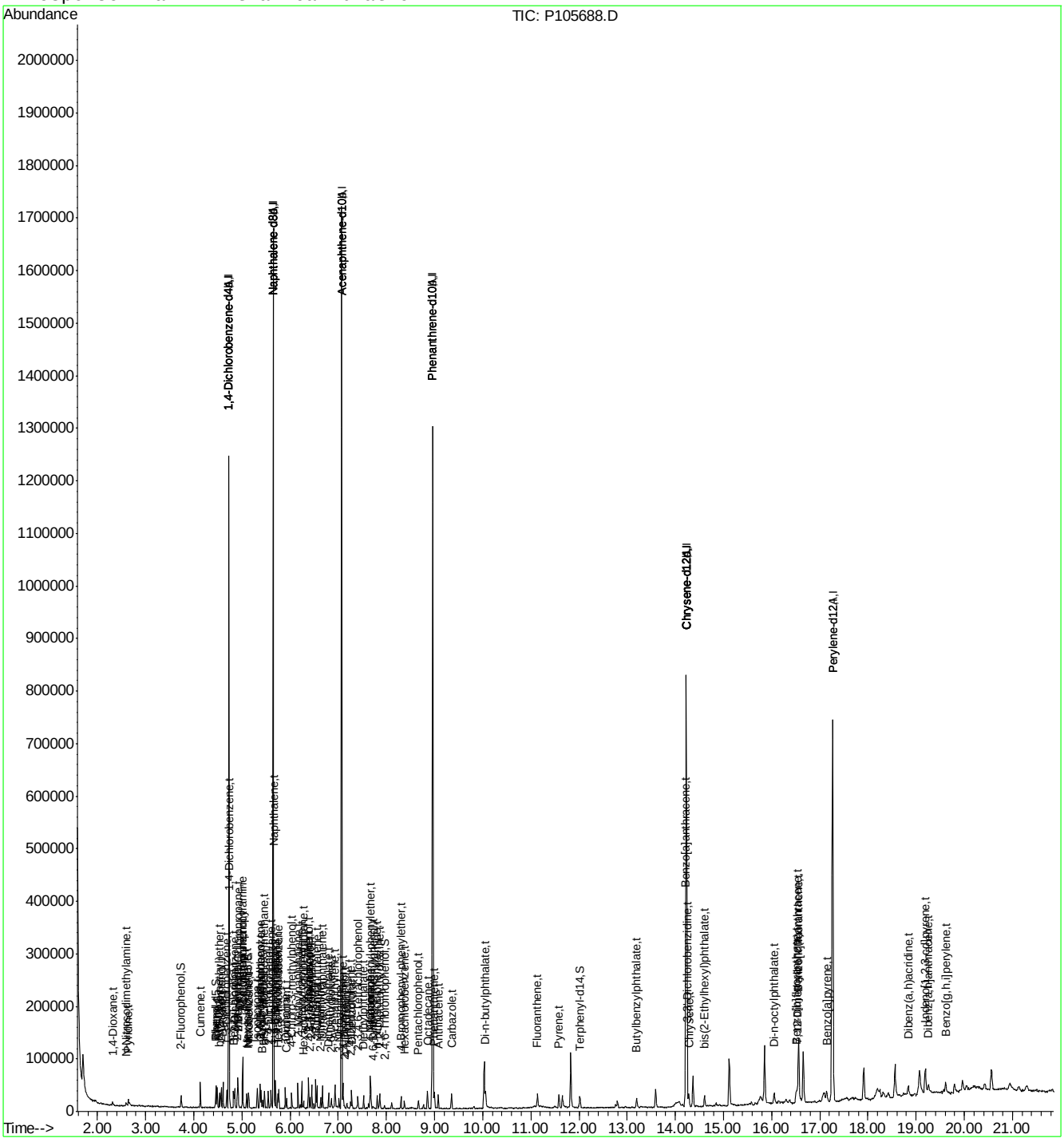
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
70)	4,6-Dinitro-2-methylphenol	7.72	198	499	0.29	ppm		68
71)	n-Nitrosodiphenylamine	7.81	169	6845	1.13	ppm		86
72)	1,2-Diphenylhydrazine	7.86	77	12101	1.26	ppm		87
74)	4-Bromophenyl-phenylether	8.31	248	2218	0.99	ppm	#	76
75)	Hexachlorobenzene	8.37	284	2150	1.03	ppm	#	41
76)	Pentachlorophenol	8.66	266	2080	1.43	ppm		87
77)	Phenanthrene	8.99	178	13401	1.18	ppm		95
78)	Anthracene	9.07	178	12420	1.05	ppm		96
79)	Carbazole	9.35	167	14463	1.14	ppm		98
80)	Di-n-butylphthalate	10.06	149	16975	1.11	ppm		99
81)	Fluoranthene	11.14	202	13727	1.02	ppm		76
82)	Octadecane	8.86	57	8639	1.27	ppm		87
84)	Pyrene	11.59	202	14941	1.11	ppm		85
86)	Butylbenzylphthalate	13.19	149	7028	0.98	ppm		87
87)	Benzo[a]anthracene	14.21	228	12725	1.10	ppm		94
88)	3,3'-Dichlorobenzidine	14.26	252	3074	0.74	ppm		85
89)	Chrysene	14.28	228	11374	1.08	ppm		95
90)	bis(2-Ethylhexyl)phthalate	14.60	149	9255	0.99	ppm		99
92)	Di-n-octylphthalate	16.05	149	15778	0.97	ppm		93
93)	Benzo[b]fluoranthene	16.51	252	11570	1.03	ppm		93
94)	Benzo[k]fluoranthene	16.56	252	12057	1.22	ppm		88
95)	Benzo[a]pyrene	17.15	252	11098	1.09	ppm		91
96)	Indeno[1,2,3-cd]pyrene	19.19	276	9355	1.10	ppm		72
97)	Dibenz(a,h)acridine	18.84	279	7849	0.98	ppm		90
98)	Dibenz[a,h]anthracene	19.26	278	9474	1.12	ppm		83
99)	7,12-Dimethylbenz(a)anthra	16.53	256	5809	1.13	ppm		97
100)	Benzo[g,h,i]perylene	19.62	276	10020	1.10	ppm	#	65

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105688.D Vial: 2
Acq On : 28 Jun 2016 11:19 am Operator: ashleyd
Sample : ic4667-1 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:34 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:33:07 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105695.D Vial: 9
Acq On : 28 Jun 2016 11:47 am Operator: ashleyd
Sample : ic4667-100 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:30:50 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:30:22 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	134915	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	491213	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	294015	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	488199	40.00	ppm	0.00
83) Chrysene-d12	14.24	240	351141	40.00	ppm	0.00
91) Perylene-d12	17.26	264	292022	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	134915	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	491213	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	294015	40.00	ppm	0.00
131) Phenanthrene-d10A	8.96	188	488199	40.00	ppm	0.00
146) Chrysene-d12A	14.24	240	351141	40.00	ppm	0.00
154) Perylene-d12A	17.26	264	292022	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	134915	40.00	ppm	0.00
160) Phenanthrene-d10b	8.96	188	488199	40.00	ppm	0.00
162) Chrysene-d12b	14.24	240	351141	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	491213	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	294015	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	491213	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	134915	40.00	ppm	0.00
175) Chrysene-d12c	14.24	240	351141	40.00	ppm	0.00
177) Chrysene-d12d	14.24	240	351141	40.00	ppm	0.00
179) Naphthalene-d8d	5.65	136	491213	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.74	112	509203	102.59	ppm	0.00
Spiked Amount 50.000			Recovery = 205.18%			
8) Phenol-d5	4.46	99	620859	102.37	ppm	0.00
Spiked Amount 50.000			Recovery = 204.74%			
25) Nitrobenzene-d5	5.13	82	411887	96.77	ppm	0.00
Spiked Amount 50.000			Recovery = 193.54%			
51) 2-Fluorobiphenyl	6.45	172	615918	98.35	ppm	0.00
Spiked Amount 50.000			Recovery = 196.70%			
73) 2,4,6-Tribromophenol	7.96	330	71306	101.42	ppm	0.00
Spiked Amount 50.000			Recovery = 202.84%			
85) Terphenyl-d14	12.02	244	635377	101.95	ppm	0.00
Spiked Amount 50.000			Recovery = 203.90%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.31	88	289852	103.54	ppm		94
3) Pyridine	2.62	79	661748	101.23	ppm		97
4) N-Nitrosodimethylamine	2.59	42	203397	99.39	ppm	#	70
6) Indene	4.92	116	559370	99.50	ppm		98
7) Cumene	4.14	105	918856	100.98	ppm		93
9) Phenol	4.47	94	665125	101.40	ppm		98
10) Aniline	4.49	93	729045	101.62	ppm		40
11) bis(2-Chloroethyl)ether	4.54	93	449065	102.74	ppm		98
12) 2-Chlorophenol	4.58	128	421807	103.01	ppm		92
13) Decane	4.61	43	372387	99.81	ppm		90
14) 1,3-Dichlorobenzene	4.69	146	427415	102.66	ppm		97
15) 1,4-Dichlorobenzene	4.74	146	402586	103.50	ppm		95

(#) = qualifier out of range (m) = manual integration
P105695.D MP4667.M Tue Jun 28 18:32:05 2016

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105695.D Vial: 9
Acq On : 28 Jun 2016 11:47 am Operator: ashleyd
Sample : ic4667-100 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:30:50 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:30:22 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.83	108	300363	100.99	ppm		90
17) 1,2-Dichlorobenzene	4.85	146	356212	102.96	ppm		96
18) Acetophenone	5.03	105	402989	100.04	ppm		90
19) 2-Methylphenol	4.91	108	367373	101.04	ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.93	121	128615	103.76	ppm	#	92
21) 3&4-Methylphenol	5.02	108	342528	98.28	ppm		98
22) n-Nitroso-di-n-propylamine	5.03	70	213105	98.04	ppm		97
23) Hexachloroethane	5.10	201	135151	103.64	ppm		99
26) Nitrobenzene	5.15	77	401416	98.01	ppm		96
27) Quinoline	5.91	129	840013	98.96	ppm		98
28) Isophorone	5.32	82	775660	96.80	ppm		99
29) 2-Nitrophenol	5.37	139	212518	97.79	ppm		89
30) 2,4-Dimethylphenol	5.40	107	366213	100.25	ppm		98
31) Benzoic acid	5.50	105	375401	99.75	ppm		86
32) bis(2-Chloroethoxy)methane	5.47	93	478353	96.82	ppm		96
33) 2,4-Dichlorophenol	5.54	162	319699	98.93	ppm		94
34) 2,6-Dichlorophenol	5.71	162	276009	98.69	ppm		96
35) 1,3,5-Trichlorobenzene	5.38	180	289511	96.80	ppm		97
36) 1,2,4-Trichlorobenzene	5.61	180	299739	97.33	ppm		97
37) 1,2,3-Trichlorobenzene	5.77	180	281968	98.95	ppm		97
38) Naphthalene	5.67	128	872304	96.22	ppm		94
39) 4-Chloroaniline	5.70	127	405764	97.54	ppm		96
40) 2,3-Dichloroaniline	6.39	161	306733	96.50	ppm		99
41) Caprolactam	5.98	55	226526	96.65	ppm		94
42) Hexachlorobutadiene	5.75	225	149052	99.03	ppm		99
43) 4-Chloro-3-methylphenol	6.05	107	350820	98.34	ppm		92
44) 2-Methylnaphthalene	6.16	141	525607	96.17	ppm		97
45) 1-Methylnaphthalene	6.24	142	660211	98.98	ppm		98
46) Dimethylnaphthalene	6.68	156	552993	97.23	ppm		99
48) Hexachlorocyclopentadiene	6.29	237	308971	194.70	ppm		98
49) 2,4,6-Trichlorophenol	6.39	196	192668	100.70	ppm		98
50) 2,4,5-Trichlorophenol	6.42	196	214396	100.50	ppm		96
52) 2-Chloronaphthalene	6.56	162	549726	98.97	ppm		97
53) Biphenyl	6.54	154	746246	99.62	ppm		97
54) 2-Nitroaniline	6.64	65	227787	97.95	ppm		87
55) Dimethylphthalate	6.80	163	662406	100.09	ppm		98
56) Acenaphthylene	6.93	152	964017	98.33	ppm		95
57) 2,6-Dinitrotoluene	6.86	165	174465	100.90	ppm		91
58) 3-Nitroaniline	7.03	138	246049	100.09	ppm		91
59) Acenaphthene	7.10	153	587016	99.86	ppm		99
60) 2,4-Dinitrophenol	7.13	184	213339	200.44	ppm	#	72
61) 4-Nitrophenol	7.18	109	84689	96.66	ppm		87
62) Dibenzofuran	7.29	168	803994	99.71	ppm		86
63) 2,4-Dinitrotoluene	7.26	165	232833	100.75	ppm		80
64) 2,3,4,6-Tetrachlorophenol	7.41	232	184318	99.66	ppm		96
65) Diethylphthalate	7.54	149	690261	99.93	ppm		97
66) Fluorene	7.67	166	611451	98.36	ppm		96
67) 4-Chlorophenyl-phenylether	7.67	204	280768	97.45	ppm		99
68) 4-Nitroaniline	7.70	138	235764	100.36	ppm		94

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

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105695.D Vial: 9
Acq On : 28 Jun 2016 11:47 am Operator: ashleyd
Sample : ic4667-100 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:30:50 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:30:22 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.73	198	140764	100.09	ppm	90
71)	n-Nitrosodiphenylamine	7.81	169	499078	100.78	ppm	100
72)	1,2-Diphenylhydrazine	7.87	77	774344	97.01	ppm	95
74)	4-Bromophenyl-phenylether	8.31	248	186394	103.37	ppm	94
75)	Hexachlorobenzene	8.38	284	172930	102.21	ppm	84
76)	Pentachlorophenol	8.67	266	242025	205.61	ppm	100
77)	Phenanthrene	9.00	178	927192	99.44	ppm	98
78)	Anthracene	9.08	178	972415	101.15	ppm	97
79)	Carbazole	9.36	167	1032974	99.90	ppm	98
80)	Di-n-butylphthalate	10.06	149	1247214	100.08	ppm	98
81)	Fluoranthene	11.14	202	1098285	98.67	ppm	90
82)	Octadecane	8.86	57	546405	96.14	ppm	90
84)	Pyrene	11.59	202	1106552	100.19	ppm	89
86)	Butylbenzylphthalate	13.20	149	594264	101.82	ppm	90
87)	Benzo[a]anthracene	14.21	228	959999	103.14	ppm	99
88)	3,3'-Dichlorobenzidine	14.26	252	345553	102.06	ppm	96
89)	Chrysene	14.29	228	867759	101.39	ppm	99
90)	bis(2-Ethylhexyl)phthalate	14.60	149	773913	103.01	ppm	99
92)	Di-n-octylphthalate	16.06	149	1353122	101.73	ppm	97
93)	Benzo[b]fluoranthene	16.52	252	938824	103.46	ppm	97
94)	Benzo[k]fluoranthene	16.60	252	816762	100.15	ppm	97
95)	Benzo[a]pyrene	17.16	252	843275	101.64	ppm	94
96)	Indeno[1,2,3-cd]pyrene	19.21	276	715695	104.91	ppm	72
97)	Dibenz(a,h)acridine	18.85	279	667980	103.18	ppm	100
98)	Dibenz[a,h]anthracene	19.28	278	716443	104.88	ppm	90
99)	7,12-Dimethylbenz(a)anthra	16.55	256	428364	102.81	ppm	97
100)	Benzo[g,h,i]perylene	19.65	276	769540	104.44	ppm	88

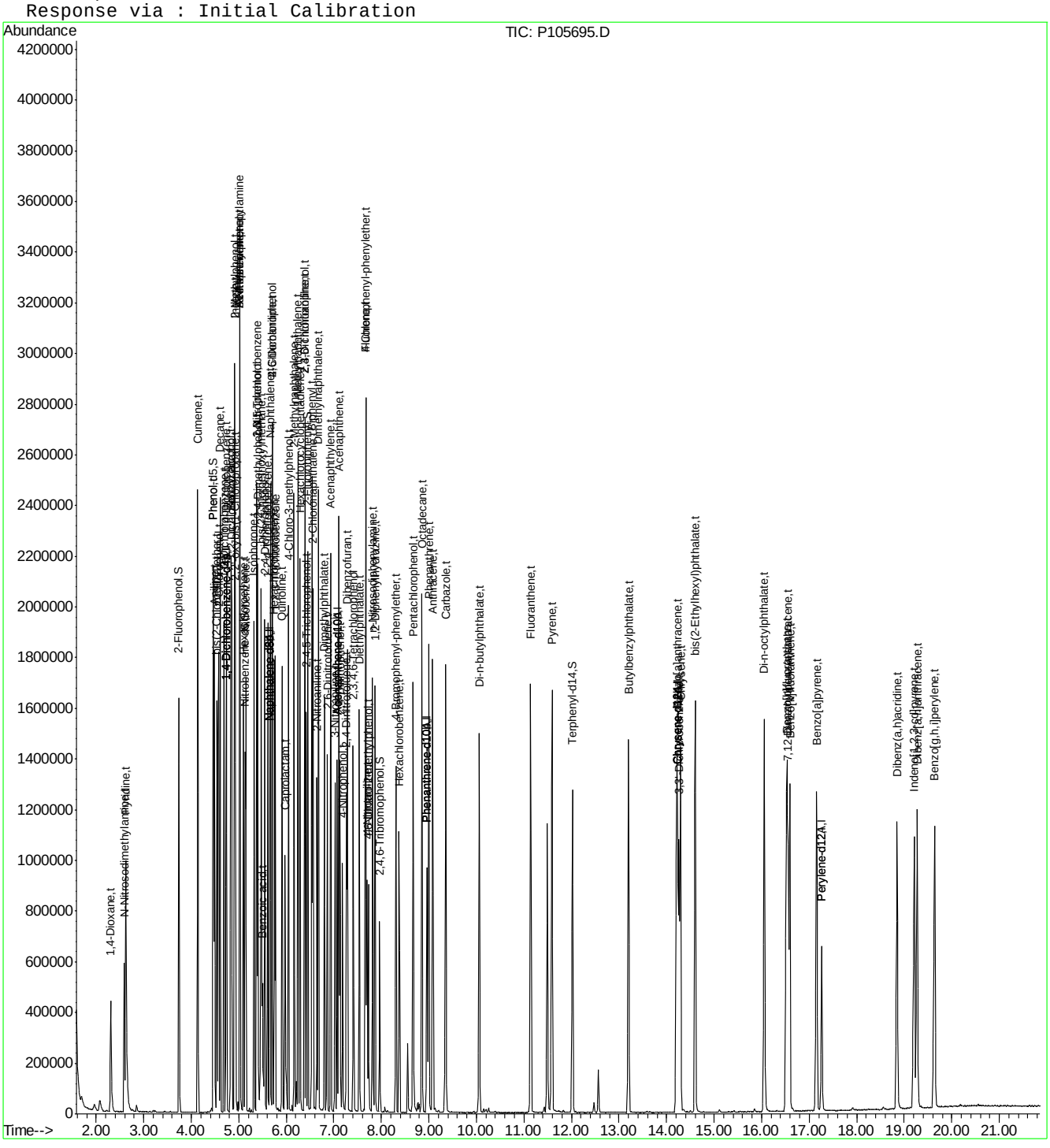
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105695.D Vial: 9
Acq On : 28 Jun 2016 11:47 am Operator: ashleyd
Sample : ic4667-100 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:31 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:30:22 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105689.D Vial: 3
Acq On : 28 Jun 2016 12:16 pm Operator: ashleyd
Sample : ic4667-2 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:34:29 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:34:23 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	167417	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	598711	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	365039	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	591243	40.00	ppm	0.00
83) Chrysene-d12	14.22	240	427228	40.00	ppm	-0.01
91) Perylene-d12	17.26	264	350657	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.73	152	167417	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	598711	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	365039	40.00	ppm	0.00
131) Phenanthrene-d10A	8.96	188	591243	40.00	ppm	0.00
146) Chrysene-d12A	14.22	240	427228	40.00	ppm	-0.01
154) Perylene-d12A	17.26	264	350657	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.73	152	167417	40.00	ppm	0.00
160) Phenanthrene-d10b	8.96	188	591243	40.00	ppm	0.00
162) Chrysene-d12b	14.22	240	427228	40.00	ppm	-0.01
164) Naphthalene-d8b	5.65	136	598711	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	365039	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	598711	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	167417	40.00	ppm	-0.01
175) Chrysene-d12c	14.22	240	427228	40.00	ppm	-0.01
177) Chrysene-d12d	14.22	240	427228	40.00	ppm	-0.01
179) Naphthalene-d8d	5.65	136	598711	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.74	112	11910	1.87	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.74%	
8) Phenol-d5	4.45	99	17089	2.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.26%	
25) Nitrobenzene-d5	5.13	82	12677	2.33	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.66%	
51) 2-Fluorobiphenyl	6.45	172	20623	2.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.74%	
73) 2,4,6-Tribromophenol	7.96	330	1190	1.48	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.96%	
85) Terphenyl-d14	12.01	244	14765	1.79	ppm	-0.01
Spiked Amount 50.000			Recovery	=	3.58%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.31	88	7070	1.89	ppm	96
3) Pyridine	2.64	79	16936	2.05	ppm	99
4) N-Nitrosodimethylamine	2.59	42	5133	2.03	ppm	79
6) Indene	4.91	116	21984	2.43	ppm	97
7) Cumene	4.14	105	31760	2.50	ppm	94
9) Phenol	4.46	94	22780	2.45	ppm	96
10) Aniline	4.48	93	24199	2.43	ppm	42
11) bis(2-Chloroethyl)ether	4.53	93	14958	2.47	ppm	97
12) 2-Chlorophenol	4.57	128	13535	2.37	ppm	91
13) Decane	4.60	43	15076	2.69	ppm	92
14) 1,3-Dichlorobenzene	4.68	146	13564	2.42	ppm	90
15) 1,4-Dichlorobenzene	4.74	146	11861	2.23	ppm	96

(#) = qualifier out of range (m) = manual integration
P105689.D MP4667.M Tue Jun 28 18:35:34 2016

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105689.D Vial: 3
Acq On : 28 Jun 2016 12:16 pm Operator: ashleyd
Sample : ic4667-2 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:34:29 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:34:23 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.82	108	8428	2.23	ppm		96
17)	1,2-Dichlorobenzene	4.85	146	11487	2.35	ppm		95
18)	Acetophenone	5.01	105	17218	2.79	ppm		80
19)	2-Methylphenol	4.90	108	12507	2.52	ppm		97
20)	2,2'-oxybis(1-Chloropropan	4.92	121	4265	2.52	ppm	#	64
21)	3&4-Methylphenol	5.01	108	12620	2.54	ppm		99
22)	n-Nitroso-di-n-propylamine	5.01	70	9346	2.86	ppm		94
23)	Hexachloroethane	5.09	201	3550	2.21	ppm	#	72
26)	Nitrobenzene	5.14	77	12883	2.38	ppm		90
27)	Quinoline	5.90	129	23150	2.17	ppm		97
28)	Isophorone	5.31	82	23667	2.28	ppm		89
29)	2-Nitrophenol	5.37	139	5696	2.12	ppm		86
30)	2,4-Dimethylphenol	5.39	107	11420	2.29	ppm		95
31)	Benzoic acid	5.43	105	5962	1.30	ppm		76
32)	bis(2-Chloroethoxy)methane	5.46	93	16289	2.45	ppm		98
33)	2,4-Dichlorophenol	5.54	162	8387	2.07	ppm		91
34)	2,6-Dichlorophenol	5.70	162	8259	2.25	ppm		93
35)	1,3,5-Trichlorobenzene	5.38	180	9444	2.34	ppm		93
36)	1,2,4-Trichlorobenzene	5.60	180	9169	2.31	ppm		97
37)	1,2,3-Trichlorobenzene	5.76	180	8441	2.17	ppm		92
38)	Naphthalene	5.66	128	32798	2.62	ppm		96
39)	4-Chloroaniline	5.69	127	14208	2.51	ppm		93
40)	2,3-Dichloroaniline	6.38	161	10821	2.43	ppm		93
41)	Caprolactam	5.92	55	5936	2.11	ppm		87
42)	Hexachlorobutadiene	5.75	225	4088	2.15	ppm		93
43)	4-Chloro-3-methylphenol	6.04	107	9294	2.08	ppm		92
44)	2-Methylnaphthalene	6.16	141	17388	2.41	ppm		95
45)	1-Methylnaphthalene	6.24	142	21809	2.45	ppm		96
46)	Dimethylnaphthalene	6.67	156	18383	2.45	ppm		93
48)	Hexachlorocyclopentadiene	6.28	237	5111	3.30	ppm		79
49)	2,4,6-Trichlorophenol	6.38	196	5585	2.23	ppm		96
50)	2,4,5-Trichlorophenol	6.41	196	5621	2.07	ppm		98
52)	2-Chloronaphthalene	6.55	162	19035	2.40	ppm		93
53)	Biphenyl	6.53	154	26370	2.46	ppm		94
54)	2-Nitroaniline	6.64	65	5903	2.04	ppm		82
55)	Dimethylphthalate	6.79	163	18995	2.20	ppm		98
56)	Acenaphthylene	6.93	152	30363	2.28	ppm		95
57)	2,6-Dinitrotoluene	6.85	165	3091	1.56	ppm	#	62
58)	3-Nitroaniline	7.01	138	5162	1.76	ppm	#	61
59)	Acenaphthene	7.10	153	17788	2.20	ppm		94
60)	2,4-Dinitrophenol	7.12	184	1180	1.23	ppm	#	39
61)	4-Nitrophenol	7.18	109	1381	1.44	ppm	#	81
62)	Dibenzofuran	7.27	168	25121	2.26	ppm		89
63)	2,4-Dinitrotoluene	7.25	165	4173	1.62	ppm		97
64)	2,3,4,6-Tetrachlorophenol	7.41	232	3519	1.63	ppm		93
65)	Diethylphthalate	7.53	149	18673	2.09	ppm		98
66)	Fluorene	7.66	166	21515	2.51	ppm		100
67)	4-Chlorophenyl-phenylether	7.66	204	9444	2.46	ppm		95
68)	4-Nitroaniline	7.68	138	5045	1.82	ppm		78

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

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105689.D Vial: 3
Acq On : 28 Jun 2016 12:16 pm Operator: ashleyd
Sample : ic4667-2 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:34:29 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:34:23 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.72	198	1210	0.93	ppm	83
71)	n-Nitrosodiphenylamine	7.81	169	13603	2.17	ppm	94
72)	1,2-Diphenylhydrazine	7.86	77	24806	2.40	ppm	87
74)	4-Bromophenyl-phenylether	8.30	248	4505	2.04	ppm	97
75)	Hexachlorobenzene	8.37	284	4325	2.07	ppm	62
76)	Pentachlorophenol	8.66	266	3941	3.02	ppm	89
77)	Phenanthrene	8.99	178	25688	2.15	ppm	100
78)	Anthracene	9.07	178	25972	2.18	ppm	96
79)	Carbazole	9.35	167	26968	2.06	ppm	98
80)	Di-n-butylphthalate	10.05	149	29438	1.88	ppm	97
81)	Fluoranthene	11.13	202	26333	1.96	ppm	84
82)	Octadecane	8.85	57	16605	2.26	ppm	93
84)	Pyrene	11.58	202	29628	2.13	ppm	81
86)	Butylbenzylphthalate	13.19	149	11924	1.68	ppm	81
87)	Benzo[a]anthracene	14.20	228	23532	1.98	ppm	94
88)	3,3'-Dichlorobenzidine	14.25	252	6307	1.66	ppm	93
89)	Chrysene	14.27	228	21595	2.01	ppm	97
90)	bis(2-Ethylhexyl)phthalate	14.60	149	14001	1.51	ppm	91
92)	Di-n-octylphthalate	16.05	149	23227	1.46	ppm	97
93)	Benzo[b]fluoranthene	16.50	252	20539	1.83	ppm	86
94)	Benzo[k]fluoranthene	16.56	252	21365	2.03	ppm	84
95)	Benzo[a]pyrene	17.14	252	19498	1.88	ppm	88
96)	Indeno[1,2,3-cd]pyrene	19.19	276	14769	1.70	ppm	67
97)	Dibenz(a,h)acridine	18.83	279	13186	1.68	ppm	92
98)	Dibenz[a,h]anthracene	19.25	278	14478	1.66	ppm	79
99)	7,12-Dimethylbenz(a)anthra	16.52	256	9544	1.80	ppm	97
100)	Benzo[g,h,i]perylene	19.61	276	15741	1.69	ppm	85

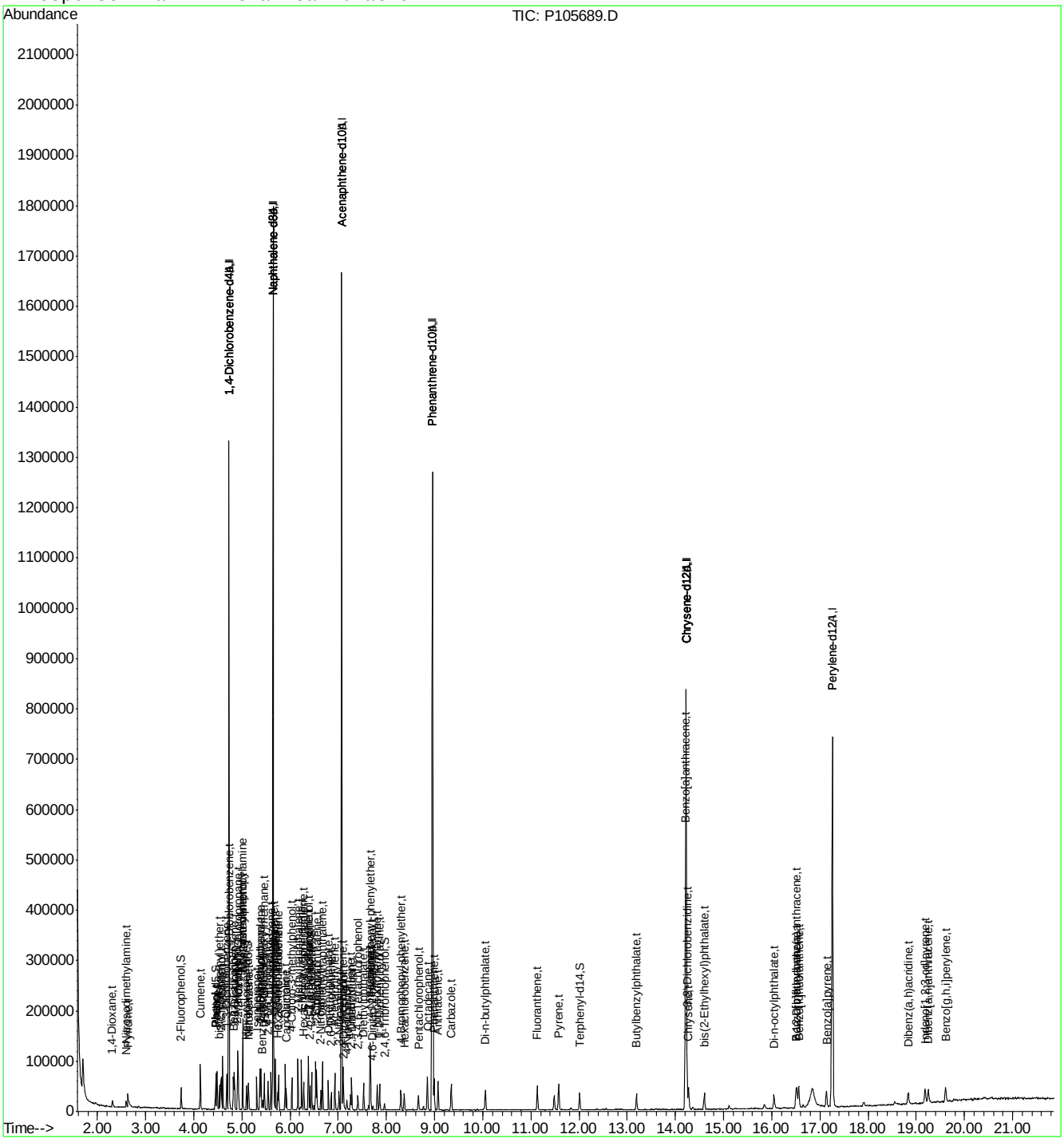
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105689.D Vial: 3
Acq On : 28 Jun 2016 12:16 pm Operator: ashleyd
Sample : ic4667-2 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:35 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:34:23 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105690.D Vial: 4
Acq On : 28 Jun 2016 12:45 pm Operator: ashleyd
Sample : ic4667-5 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:35:47 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:35:42 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	167812	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	589024	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	362176	40.00	ppm	0.00
69) Phenanthrene-d10	8.95	188	586557	40.00	ppm	0.00
83) Chrysene-d12	14.22	240	428410	40.00	ppm	0.00
91) Perylene-d12	17.26	264	348267	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	167812	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	589024	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	362176	40.00	ppm	0.00
131) Phenanthrene-d10A	8.95	188	586557	40.00	ppm	0.00
146) Chrysene-d12A	14.22	240	428410	40.00	ppm	0.00
154) Perylene-d12A	17.26	264	348267	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	167812	40.00	ppm	0.00
160) Phenanthrene-d10b	8.95	188	586557	40.00	ppm	0.00
162) Chrysene-d12b	14.22	240	428410	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	589024	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	362176	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	589024	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	167812	40.00	ppm	-0.01
175) Chrysene-d12c	14.22	240	428358	40.00	ppm	0.00
177) Chrysene-d12d	14.22	240	428358	40.00	ppm	0.00
179) Naphthalene-d8d	5.65	136	589024	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.74	112	31867	5.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.16%	
8) Phenol-d5	4.45	99	43166	5.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.54%	
25) Nitrobenzene-d5	5.13	82	30241	5.43	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.86%	
51) 2-Fluorobiphenyl	6.45	172	49154	5.45	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.90%	
73) 2,4,6-Tribromophenol	7.96	330	3398	4.55	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.10%	
85) Terphenyl-d14	12.01	244	36333	4.51	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.02%	

Target Compounds						Qvalue
2) 1,4-Dioxane	2.31	88	16920	4.57	ppm	92
3) Pyridine	2.63	79	39724	4.76	ppm	97
4) N-Nitrosodimethylamine	2.59	42	12410	4.88	ppm	85
6) Indene	4.91	116	54572	5.61	ppm	97
7) Cumene	4.13	105	77261	5.71	ppm	96
9) Phenol	4.46	94	49514	5.03	ppm	93
10) Aniline	4.48	93	61576	5.85	ppm	51
11) bis(2-Chloroethyl)ether	4.53	93	35179	5.48	ppm	99
12) 2-Chlorophenol	4.57	128	33778	5.64	ppm	94
13) Decane	4.60	43	35612	5.84	ppm	95
14) 1,3-Dichlorobenzene	4.68	146	31591	5.34	ppm	94
15) 1,4-Dichlorobenzene	4.74	146	30182	5.50	ppm	98

(#) = qualifier out of range (m) = manual integration
P105690.D MP4667.M Tue Jun 28 18:37:15 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105690.D Vial: 4
Acq On : 28 Jun 2016 12:45 pm Operator: ashleyd
Sample : ic4667-5 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:35:47 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:35:42 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.82	108	20302	5.22	ppm		96
17)	1,2-Dichlorobenzene	4.85	146	29646	5.80	ppm		99
18)	Acetophenone	5.01	105	41805	6.14	ppm		83
19)	2-Methylphenol	4.90	108	29840	5.63	ppm		97
20)	2,2'-oxybis(1-Chloropropan	4.92	121	9734	5.38	ppm	#	66
21)	3&4-Methylphenol	5.01	108	32081	6.04	ppm		97
22)	n-Nitroso-di-n-propylamine	5.01	70	21699	5.98	ppm		96
23)	Hexachloroethane	5.10	201	8603	5.21	ppm		95
26)	Nitrobenzene	5.14	77	30975	5.55	ppm		94
27)	Quinoline	5.90	129	58213	5.43	ppm		98
28)	Isophorone	5.31	82	59178	5.61	ppm		93
29)	2-Nitrophenol	5.37	139	13703	5.10	ppm		83
30)	2,4-Dimethylphenol	5.39	107	29263	5.76	ppm		99
31)	Benzoic acid	5.43	105	17055	3.78	ppm		83
32)	bis(2-Chloroethoxy)methane	5.46	93	39746	5.75	ppm		94
33)	2,4-Dichlorophenol	5.54	162	21130	5.26	ppm		87
34)	2,6-Dichlorophenol	5.70	162	20838	5.59	ppm		97
35)	1,3,5-Trichlorobenzene	5.38	180	24585	5.93	ppm		98
36)	1,2,4-Trichlorobenzene	5.60	180	23461	5.79	ppm		98
37)	1,2,3-Trichlorobenzene	5.76	180	21051	5.38	ppm		97
38)	Naphthalene	5.66	128	79400	5.98	ppm		96
39)	4-Chloroaniline	5.69	127	36278	6.12	ppm		97
40)	2,3-Dichloroaniline	6.38	161	27593	5.97	ppm		98
41)	Caprolactam	5.93	55	14927	5.33	ppm		89
42)	Hexachlorobutadiene	5.75	225	10279	5.39	ppm		99
43)	4-Chloro-3-methylphenol	6.04	107	23779	5.36	ppm		88
44)	2-Methylnaphthalene	6.16	141	42547	5.70	ppm		96
45)	1-Methylnaphthalene	6.24	142	55043	5.95	ppm		97
46)	Dimethylnaphthalene	6.67	156	46058	5.91	ppm		97
48)	Hexachlorocyclopentadiene	6.28	237	16207	11.03	ppm		96
49)	2,4,6-Trichlorophenol	6.38	196	13956	5.46	ppm		87
50)	2,4,5-Trichlorophenol	6.41	196	14125	5.19	ppm		96
52)	2-Chloronaphthalene	6.55	162	45154	5.46	ppm		97
53)	Biphenyl	6.53	154	63611	5.66	ppm		98
54)	2-Nitroaniline	6.64	65	15148	5.26	ppm	#	74
55)	Dimethylphthalate	6.79	163	47667	5.43	ppm		98
56)	Acenaphthylene	6.93	152	77023	5.63	ppm		96
57)	2,6-Dinitrotoluene	6.85	165	9138	4.91	ppm		77
58)	3-Nitroaniline	7.02	138	14091	4.99	ppm		84
59)	Acenaphthene	7.10	153	44168	5.37	ppm		97
60)	2,4-Dinitrophenol	7.12	184	5215	6.61	ppm	#	34
61)	4-Nitrophenol	7.17	109	4132	4.68	ppm	#	82
62)	Dibenzofuran	7.27	168	63245	5.55	ppm		90
63)	2,4-Dinitrotoluene	7.25	165	12302	5.05	ppm		88
64)	2,3,4,6-Tetrachlorophenol	7.41	232	9228	4.51	ppm		91
65)	Diethylphthalate	7.53	149	48104	5.37	ppm		96
66)	Fluorene	7.66	166	53173	5.88	ppm		97
67)	4-Chlorophenyl-phenylether	7.66	204	21965	5.46	ppm		97
68)	4-Nitroaniline	7.68	138	13853	5.15	ppm		92

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

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105690.D Vial: 4
Acq On : 28 Jun 2016 12:45 pm Operator: ashleyd
Sample : ic4667-5 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:35:47 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:35:42 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.71	198	4810	4.30	ppm	81
71)	n-Nitrosodiphenylamine	7.80	169	33689	5.30	ppm	96
72)	1,2-Diphenylhydrazine	7.86	77	63472	5.89	ppm	86
74)	4-Bromophenyl-phenylether	8.30	248	10726	4.86	ppm	91
75)	Hexachlorobenzene	8.37	284	9873	4.72	ppm	58
76)	Pentachlorophenol	8.66	266	11296	9.28	ppm	95
77)	Phenanthrene	8.99	178	65192	5.40	ppm	96
78)	Anthracene	9.07	178	64589	5.35	ppm	98
79)	Carbazole	9.35	167	69112	5.27	ppm	98
80)	Di-n-butylphthalate	10.05	149	76838	5.02	ppm	98
81)	Fluoranthene	11.13	202	69026	5.20	ppm	85
82)	Octadecane	8.85	57	43216	5.74	ppm	91
84)	Pyrene	11.58	202	73718	5.20	ppm	79
86)	Butylbenzylphthalate	13.19	149	30853	4.51	ppm	85
87)	Benzo[a]anthracene	14.20	228	56637	4.76	ppm	96
88)	3,3'-Dichlorobenzidine	14.25	252	16966	4.66	ppm	97
89)	Chrysene	14.27	228	53764	4.98	ppm	98
90)	bis(2-Ethylhexyl)phthalate	14.60	149	37733	4.33	ppm	90
92)	Di-n-octylphthalate	16.05	149	61471	4.16	ppm	93
93)	Benzo[b]fluoranthene	16.50	252	51217	4.70	ppm	94
94)	Benzo[k]fluoranthene	16.56	252	49041	4.68	ppm	89
95)	Benzo[a]pyrene	17.14	252	44733	4.41	ppm	90
96)	Indeno[1,2,3-cd]pyrene	19.19	276	34708	4.18	ppm	66
97)	Dibenz(a,h)acridine	18.83	279	32267	4.31	ppm	99
98)	Dibenz[a,h]anthracene	19.25	278	37007	4.46	ppm	84
99)	7,12-Dimethylbenz(a)anthra	16.52	256	23226	4.53	ppm	97
100)	Benzo[g,h,i]perylene	19.61	276	39417	4.43	ppm	83

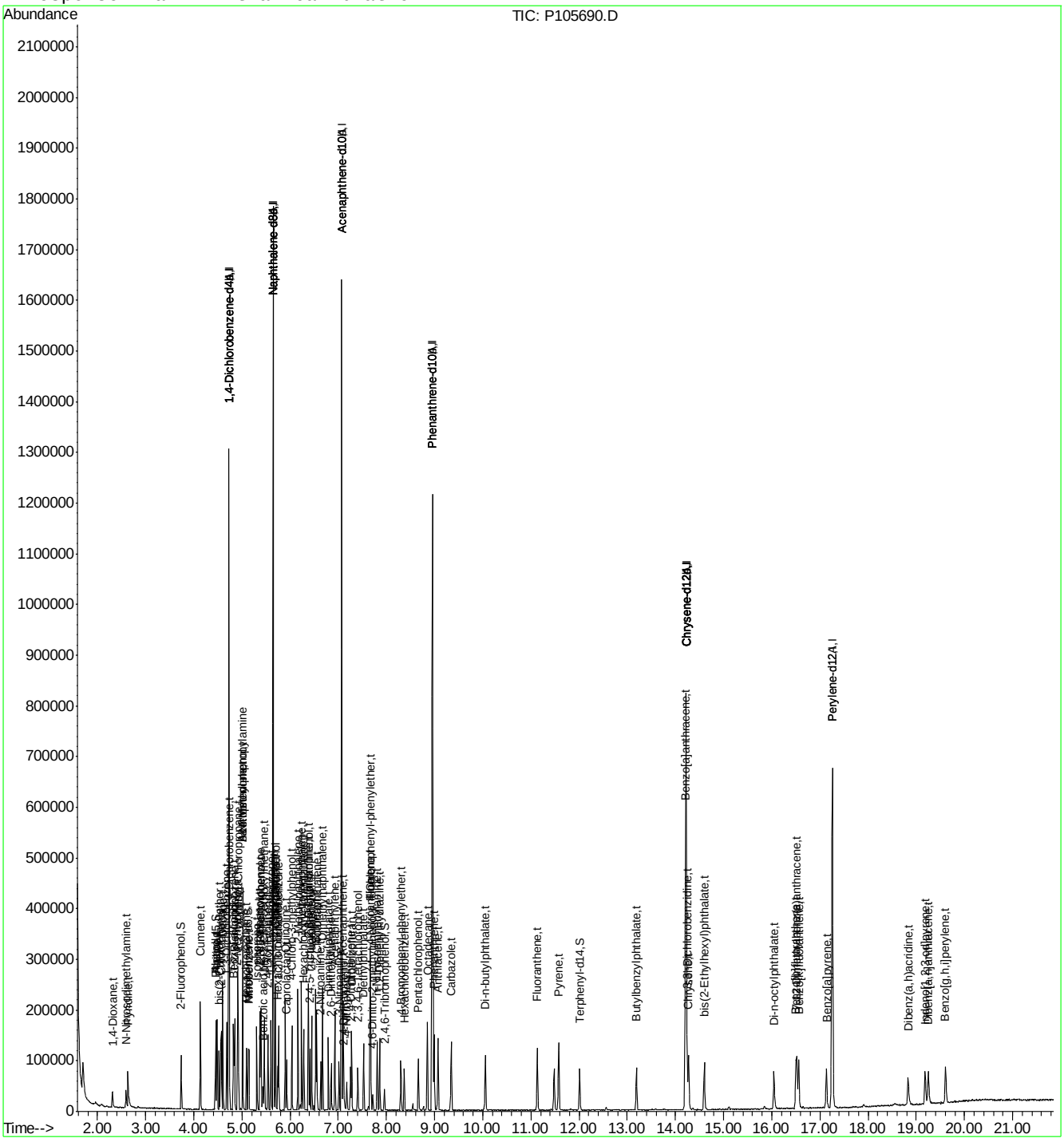
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105690.D Vial: 4
Acq On : 28 Jun 2016 12:45 pm Operator: ashleyd
Sample : ic4667-5 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:37 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:35:42 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105691.D Vial: 5
Acq On : 28 Jun 2016 1:14 pm Operator: ashleyd
Sample : ic4667-10 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:37:23 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:37:18 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	160749	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	568960	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	342170	40.00	ppm	0.00
69) Phenanthrene-d10	8.95	188	559204	40.00	ppm	0.00
83) Chrysene-d12	14.22	240	411362	40.00	ppm	0.00
91) Perylene-d12	17.26	264	335313	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	160749	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	568960	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	342170	40.00	ppm	0.00
131) Phenanthrene-d10A	8.95	188	559204	40.00	ppm	0.00
146) Chrysene-d12A	14.22	240	411362	40.00	ppm	0.00
154) Perylene-d12A	17.26	264	335313	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	160749	40.00	ppm	0.00
160) Phenanthrene-d10b	8.95	188	559204	40.00	ppm	0.00
162) Chrysene-d12b	14.22	240	411362	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	568960	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	342170	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	568960	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	160749	40.00	ppm	-0.01
175) Chrysene-d12c	14.22	240	411362	40.00	ppm	0.00
177) Chrysene-d12d	14.22	240	411362	40.00	ppm	0.00
179) Naphthalene-d8d	5.65	136	568960	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.74	112	59612	9.89	ppm	0.00
Spiked Amount 50.000			Recovery = 19.78%			
8) Phenol-d5	4.45	99	82569	10.42	ppm	0.00
Spiked Amount 50.000			Recovery = 20.84%			
25) Nitrobenzene-d5	5.13	82	55795	10.19	ppm	0.00
Spiked Amount 50.000			Recovery = 20.38%			
51) 2-Fluorobiphenyl	6.45	172	92313	10.64	ppm	0.00
Spiked Amount 50.000			Recovery = 21.28%			
73) 2,4,6-Tribromophenol	7.96	330	7277	10.42	ppm	0.00
Spiked Amount 50.000			Recovery = 20.84%			
85) Terphenyl-d14	12.01	244	70478	9.30	ppm	0.00
Spiked Amount 50.000			Recovery = 18.60%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.31	88	32991	9.46	ppm	92
3) Pyridine	2.62	79	79595	10.06	ppm	97
4) N-Nitrosodimethylamine	2.59	42	22825	9.41	ppm #	78
6) Indene	4.91	116	102084	10.63	ppm	98
7) Cumene	4.13	105	143911	10.79	ppm	96
9) Phenol	4.46	94	93661	9.92	ppm	91
10) Aniline	4.48	93	109508	10.50	ppm	39
11) bis(2-Chloroethyl)ether	4.53	93	66197	10.56	ppm	99
12) 2-Chlorophenol	4.57	128	62241	10.59	ppm	92
13) Decane	4.60	43	63698	10.55	ppm	93
14) 1,3-Dichlorobenzene	4.68	146	59234	10.31	ppm	98
15) 1,4-Dichlorobenzene	4.74	146	55849	10.41	ppm	99

(#) = qualifier out of range (m) = manual integration
P105691.D MP4667.M Tue Jun 28 18:38:39 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105691.D Vial: 5
Acq On : 28 Jun 2016 1:14 pm Operator: ashleyd
Sample : ic4667-10 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:37:23 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:37:18 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
16) Benzyl alcohol	4.82	108	37864	10.07 ppm		98
17) 1,2-Dichlorobenzene	4.85	146	54949	10.87 ppm		96
18) Acetophenone	5.01	105	77153	11.32 ppm		82
19) 2-Methylphenol	4.90	108	54185	10.41 ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.92	121	17788	10.11 ppm	#	43
21) 3&4-Methylphenol	5.01	108	58517	11.04 ppm		98
22) n-Nitroso-di-n-propylamine	5.01	70	40312	11.16 ppm		92
23) Hexachloroethane	5.09	201	15943	9.99 ppm	#	76
26) Nitrobenzene	5.14	77	60167	10.92 ppm		88
27) Quinoline	5.90	129	110359	10.48 ppm		99
28) Isophorone	5.31	82	109265	10.46 ppm		92
29) 2-Nitrophenol	5.37	139	27627	10.61 ppm		88
30) 2,4-Dimethylphenol	5.39	107	54672	10.81 ppm		96
31) Benzoic acid	5.44	105	34349	8.59 ppm		90
32) bis(2-Chloroethoxy)methane	5.46	93	72514	10.55 ppm		98
33) 2,4-Dichlorophenol	5.54	162	41336	10.55 ppm		89
34) 2,6-Dichlorophenol	5.70	162	38496	10.44 ppm		95
35) 1,3,5-Trichlorobenzene	5.38	180	43513	10.48 ppm		100
36) 1,2,4-Trichlorobenzene	5.60	180	41803	10.36 ppm		97
37) 1,2,3-Trichlorobenzene	5.76	180	40770	10.62 ppm		95
38) Naphthalene	5.66	128	145316	10.90 ppm		98
39) 4-Chloroaniline	5.69	127	67084	11.21 ppm		95
40) 2,3-Dichloroaniline	6.38	161	50223	10.83 ppm		99
41) Caprolactam	5.93	55	27007	9.85 ppm		91
42) Hexachlorobutadiene	5.75	225	18807	10.05 ppm		99
43) 4-Chloro-3-methylphenol	6.04	107	47635	10.96 ppm		87
44) 2-Methylnaphthalene	6.16	141	81475	10.99 ppm		98
45) 1-Methylnaphthalene	6.24	142	101214	10.92 ppm		97
46) Dimethylnaphthalene	6.67	156	83125	10.65 ppm		99
48) Hexachlorocyclopentadiene	6.28	237	34516	24.37 ppm		93
49) 2,4,6-Trichlorophenol	6.38	196	26526	10.78 ppm		97
50) 2,4,5-Trichlorophenol	6.41	196	25923	10.01 ppm		98
52) 2-Chloronaphthalene	6.55	162	83046	10.44 ppm		98
53) Biphenyl	6.53	154	117236	10.75 ppm		99
54) 2-Nitroaniline	6.64	65	29135	10.59 ppm	#	79
55) Dimethylphthalate	6.79	163	86253	10.23 ppm		99
56) Acenaphthylene	6.93	152	144360	10.90 ppm		95
57) 2,6-Dinitrotoluene	6.85	165	17728	10.13 ppm		73
58) 3-Nitroaniline	7.01	138	26379	9.90 ppm		76
59) Acenaphthene	7.10	153	83902	10.64 ppm		96
60) 2,4-Dinitrophenol	7.12	184	12984	18.67 ppm	#	56
61) 4-Nitrophenol	7.17	109	8775	10.65 ppm	#	77
62) Dibenzofuran	7.27	168	117257	10.66 ppm		89
63) 2,4-Dinitrotoluene	7.25	165	24798	10.75 ppm		89
64) 2,3,4,6-Tetrachlorophenol	7.40	232	19036	10.04 ppm		91
65) Diethylphthalate	7.53	149	89905	10.46 ppm		98
66) Fluorene	7.66	166	98296	11.11 ppm		96
67) 4-Chlorophenyl-phenylether	7.66	204	40325	10.42 ppm		97
68) 4-Nitroaniline	7.68	138	26136	10.23 ppm		84

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

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105691.D Vial: 5
Acq On : 28 Jun 2016 1:14 pm Operator: ashleyd
Sample : ic4667-10 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:37:23 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:37:18 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.71	198	10197	9.84	ppm	88
71)	n-Nitrosodiphenylamine	7.80	169	60884	9.93	ppm	99
72)	1,2-Diphenylhydrazine	7.86	77	116049	10.91	ppm	88
74)	4-Bromophenyl-phenylether	8.30	248	19933	9.53	ppm	92
75)	Hexachlorobenzene	8.37	284	19698	9.99	ppm	59
76)	Pentachlorophenol	8.66	266	24478	21.41	ppm	94
77)	Phenanthrene	8.99	178	121596	10.40	ppm	97
78)	Anthracene	9.07	178	122522	10.49	ppm	97
79)	Carbazole	9.35	167	131281	10.39	ppm	96
80)	Di-n-butylphthalate	10.05	149	148163	10.14	ppm	98
81)	Fluoranthene	11.13	202	132048	10.35	ppm	80
82)	Octadecane	8.85	57	81337	11.00	ppm	93
84)	Pyrene	11.58	202	141343	10.30	ppm	80
86)	Butylbenzylphthalate	13.19	149	60416	9.38	ppm	85
87)	Benzo[a]anthracene	14.20	228	105104	9.29	ppm	98
88)	3,3'-Dichlorobenzidine	14.25	252	32877	9.53	ppm	92
89)	Chrysene	14.27	228	102691	9.91	ppm	100
90)	bis(2-Ethylhexyl)phthalate	14.59	149	76464	9.39	ppm	97
92)	Di-n-octylphthalate	16.05	149	126145	9.18	ppm	96
93)	Benzo[b]fluoranthene	16.50	252	100206	9.67	ppm	93
94)	Benzo[k]fluoranthene	16.56	252	96689	9.71	ppm	92
95)	Benzo[a]pyrene	17.14	252	87901	9.22	ppm	91
96)	Indeno[1,2,3-cd]pyrene	19.18	276	67695	8.76	ppm	64
97)	Dibenz(a,h)acridine	18.83	279	62081	8.86	ppm	93
98)	Dibenz[a,h]anthracene	19.25	278	70580	9.03	ppm	87
99)	7,12-Dimethylbenz(a)anthra	16.52	256	45212	9.33	ppm	91
100)	Benzo[g,h,i]perylene	19.61	276	77025	9.19	ppm	82

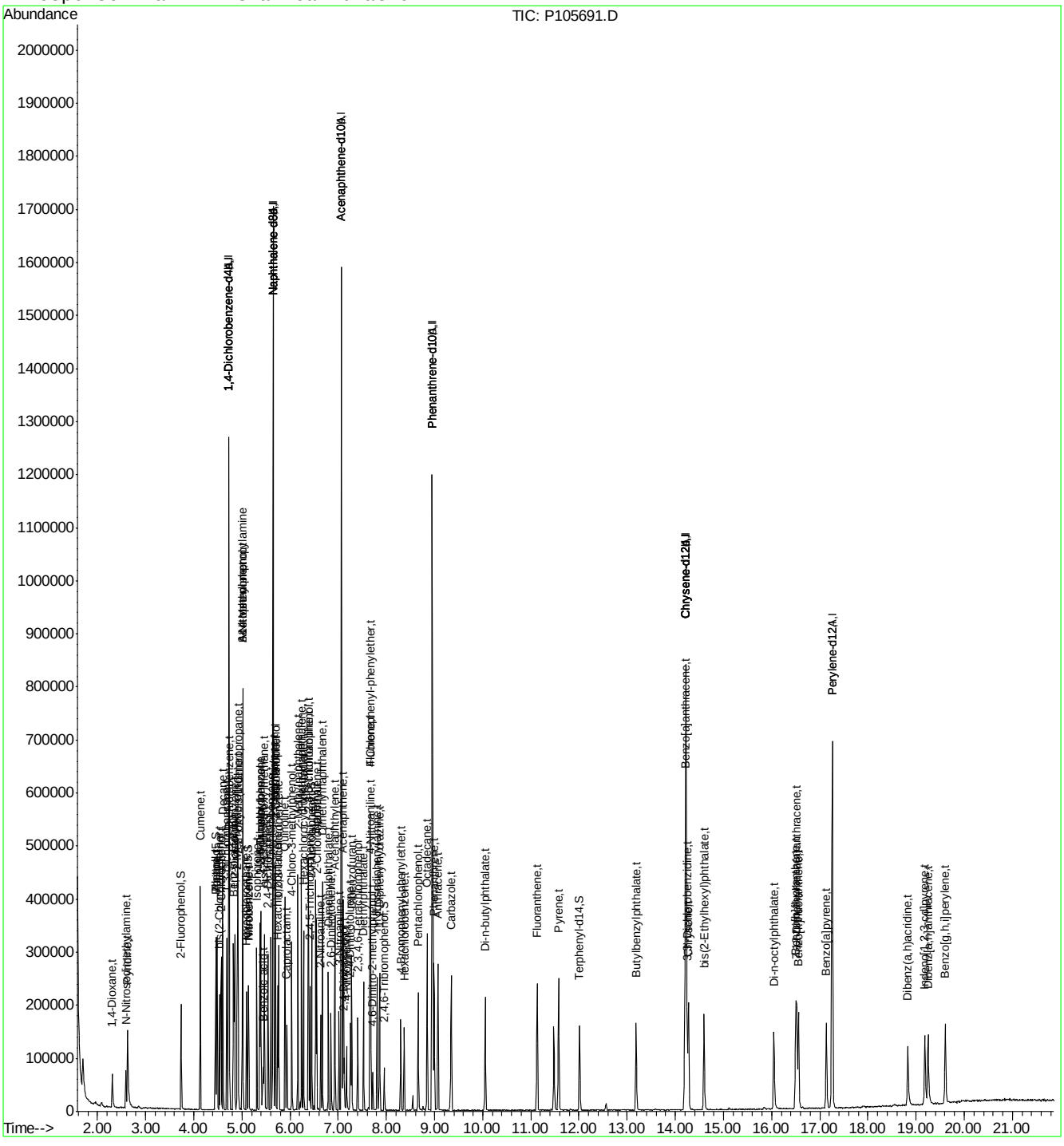
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105691.D Vial: 5
Acq On : 28 Jun 2016 1:14 pm Operator: ashleyd
Sample : ic4667-10 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:38 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:37:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105692.D Vial: 6
Acq On : 28 Jun 2016 1:43 pm Operator: ashleyd
Sample : ic4667-25 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:39:44 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:39:41 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	160822	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	567501	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	345510	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	559222	40.00	ppm	0.00
83) Chrysene-d12	14.22	240	417218	40.00	ppm	0.00
91) Perylene-d12	17.26	264	338790	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	160822	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	567501	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	345510	40.00	ppm	0.00
131) Phenanthrene-d10A	8.96	188	559222	40.00	ppm	0.00
146) Chrysene-d12A	14.22	240	417218	40.00	ppm	0.00
154) Perylene-d12A	17.26	264	338790	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	160822	40.00	ppm	0.00
160) Phenanthrene-d10b	8.96	188	559222	40.00	ppm	0.00
162) Chrysene-d12b	14.22	240	417218	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	567501	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	345510	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	567501	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	160822	40.00	ppm	-0.01
175) Chrysene-d12c	14.22	240	417218	40.00	ppm	0.00
177) Chrysene-d12d	14.22	240	417218	40.00	ppm	0.00
179) Naphthalene-d8d	5.65	136	567501	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.74	112	154102	25.61	ppm	0.00
Spiked Amount 50.000			Recovery = 51.22%			
8) Phenol-d5	4.45	99	212412	26.60	ppm	0.00
Spiked Amount 50.000			Recovery = 53.20%			
25) Nitrobenzene-d5	5.13	82	140852	25.72	ppm	0.00
Spiked Amount 50.000			Recovery = 51.44%			
51) 2-Fluorobiphenyl	6.45	172	224877	25.39	ppm	0.00
Spiked Amount 50.000			Recovery = 50.78%			
73) 2,4,6-Tribromophenol	7.96	330	18559	26.38	ppm	0.00
Spiked Amount 50.000			Recovery = 52.76%			
85) Terphenyl-d14	12.01	244	188198	24.77	ppm	0.00
Spiked Amount 50.000			Recovery = 49.54%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.31	88	86239	24.95	ppm	93
3) Pyridine	2.62	79	205756	25.96	ppm	96
4) N-Nitrosodimethylamine	2.58	42	62314	25.94	ppm	80
6) Indene	4.91	116	241152	24.79	ppm	97
7) Cumene	4.13	105	353311	26.14	ppm	99
9) Phenol	4.46	94	243970	25.85	ppm	99
10) Aniline	4.49	93	264726	25.16	ppm	46
11) bis(2-Chloroethyl)ether	4.53	93	157480	24.88	ppm	99
12) 2-Chlorophenol	4.57	128	147779	24.88	ppm	92
13) Decane	4.60	43	150597	24.70	ppm	96
14) 1,3-Dichlorobenzene	4.68	146	146367	25.32	ppm	98
15) 1,4-Dichlorobenzene	4.74	146	138331	25.60	ppm	99

(#) = qualifier out of range (m) = manual integration
P105692.D MP4667.M Tue Jun 28 18:40:53 2016

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105692.D Vial: 6
Acq On : 28 Jun 2016 1:43 pm Operator: ashleyd
Sample : ic4667-25 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:39:44 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:39:41 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
16) Benzyl alcohol	4.82	108	101593	26.97 ppm		98
17) 1,2-Dichlorobenzene	4.85	146	133901	26.10 ppm		98
18) Acetophenone	5.02	105	179699	25.79 ppm		95
19) 2-Methylphenol	4.90	108	138534	26.43 ppm		99
20) 2,2'-oxybis(1-Chloropropan	4.92	121	43935	24.92 ppm	#	67
21) 3&4-Methylphenol	5.01	108	146383	27.12 ppm		99
22) n-Nitroso-di-n-propylamine	5.01	70	90806	24.65 ppm		97
23) Hexachloroethane	5.10	201	41066	25.72 ppm	#	74
26) Nitrobenzene	5.14	77	146557	26.26 ppm		88
27) Quinoline	5.90	129	273908	25.86 ppm		99
28) Isophorone	5.31	82	277872	26.47 ppm		96
29) 2-Nitrophenol	5.37	139	75113	28.63 ppm		97
30) 2,4-Dimethylphenol	5.39	107	130910	25.60 ppm		97
31) Benzoic acid	5.46	105	98984	25.71 ppm		86
32) bis(2-Chloroethoxy)methane	5.46	93	174809	25.27 ppm		99
33) 2,4-Dichlorophenol	5.54	162	105906	26.85 ppm		97
34) 2,6-Dichlorophenol	5.70	162	99239	26.79 ppm		98
35) 1,3,5-Trichlorobenzene	5.38	180	109086	26.13 ppm		97
36) 1,2,4-Trichlorobenzene	5.60	180	104022	25.68 ppm		98
37) 1,2,3-Trichlorobenzene	5.76	180	98240	25.40 ppm		98
38) Naphthalene	5.66	128	353631	26.21 ppm		100
39) 4-Chloroaniline	5.70	127	161979	26.61 ppm		97
40) 2,3-Dichloroaniline	6.38	161	122867	26.20 ppm		99
41) Caprolactam	5.94	55	70749	25.93 ppm		91
42) Hexachlorobutadiene	5.75	225	48409	25.91 ppm		97
43) 4-Chloro-3-methylphenol	6.04	107	118838	26.97 ppm		83
44) 2-Methylnaphthalene	6.16	141	199078	26.49 ppm		96
45) 1-Methylnaphthalene	6.24	142	246541	26.26 ppm		98
46) Dimethylnaphthalene	6.67	156	207352	26.35 ppm		97
48) Hexachlorocyclopentadiene	6.28	237	98138	66.20 ppm		96
49) 2,4,6-Trichlorophenol	6.38	196	67841	26.96 ppm		99
50) 2,4,5-Trichlorophenol	6.41	196	65737	25.13 ppm		98
52) 2-Chloronaphthalene	6.55	162	200644	24.81 ppm		98
53) Biphenyl	6.54	154	284629	25.53 ppm		99
54) 2-Nitroaniline	6.64	65	73397	26.17 ppm		83
55) Dimethylphthalate	6.80	163	215504	25.22 ppm		99
56) Acenaphthylene	6.93	152	355495	26.19 ppm		98
57) 2,6-Dinitrotoluene	6.86	165	50220	28.35 ppm		91
58) 3-Nitroaniline	7.02	138	71852	26.74 ppm		82
59) Acenaphthene	7.10	153	208408	25.89 ppm		98
60) 2,4-Dinitrophenol	7.12	184	50142	72.22 ppm	#	71
61) 4-Nitrophenol	7.17	109	24930	29.64 ppm	#	82
62) Dibenzofuran	7.28	168	286169	25.49 ppm		92
63) 2,4-Dinitrotoluene	7.25	165	67911	28.79 ppm		72
64) 2,3,4,6-Tetrachlorophenol	7.40	232	52079	27.18 ppm		93
65) Diethylphthalate	7.53	149	229854	26.28 ppm		98
66) Fluorene	7.66	166	238927	26.25 ppm		98
67) 4-Chlorophenyl-phenylether	7.66	204	99798	25.36 ppm		97
68) 4-Nitroaniline	7.68	138	69006	26.64 ppm		89

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

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105692.D Vial: 6
Acq On : 28 Jun 2016 1:43 pm Operator: ashleyd
Sample : ic4667-25 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:39:44 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:39:41 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.72	198	34984	33.85	ppm	88
71)	n-Nitrosodiphenylamine	7.81	169	157257	25.68	ppm	96
72)	1,2-Diphenylhydrazine	7.86	77	288766	26.74	ppm	88
74)	4-Bromophenyl-phenylether	8.30	248	53503	25.79	ppm	92
75)	Hexachlorobenzene	8.37	284	52110	26.43	ppm	70
76)	Pentachlorophenol	8.66	266	68358	59.08	ppm	99
77)	Phenanthrene	8.99	178	308396	26.21	ppm	98
78)	Anthracene	9.07	178	319358	27.13	ppm	99
79)	Carbazole	9.35	167	342396	26.93	ppm	98
80)	Di-n-butylphthalate	10.05	149	402702	27.50	ppm	99
81)	Fluoranthene	11.13	202	348835	27.18	ppm	86
82)	Octadecane	8.85	57	207373	27.59	ppm	90
84)	Pyrene	11.58	202	364297	26.03	ppm	86
86)	Butylbenzylphthalate	13.19	149	170653	26.40	ppm	82
87)	Benzo[a]anthracene	14.20	228	281915	24.87	ppm	98
88)	3,3'-Dichlorobenzidine	14.25	252	92723	26.70	ppm	97
89)	Chrysene	14.28	228	264326	25.19	ppm	100
90)	bis(2-Ethylhexyl)phthalate	14.60	149	221804	27.13	ppm	99
92)	Di-n-octylphthalate	16.05	149	377313	27.56	ppm	95
93)	Benzo[b]fluoranthene	16.51	252	268059	25.74	ppm	94
94)	Benzo[k]fluoranthene	16.57	252	244622	24.42	ppm	93
95)	Benzo[a]pyrene	17.14	252	234977	24.72	ppm	91
96)	Indeno[1,2,3-cd]pyrene	19.19	276	187323	24.49	ppm	61
97)	Dibenz(a,h)acridine	18.84	279	174837	25.17	ppm	97
98)	Dibenz[a,h]anthracene	19.26	278	193098	24.85	ppm	85
99)	7,12-Dimethylbenz(a)anthra	16.53	256	120804	24.95	ppm	95
100)	Benzo[g,h,i]perylene	19.62	276	207033	24.79	ppm	83

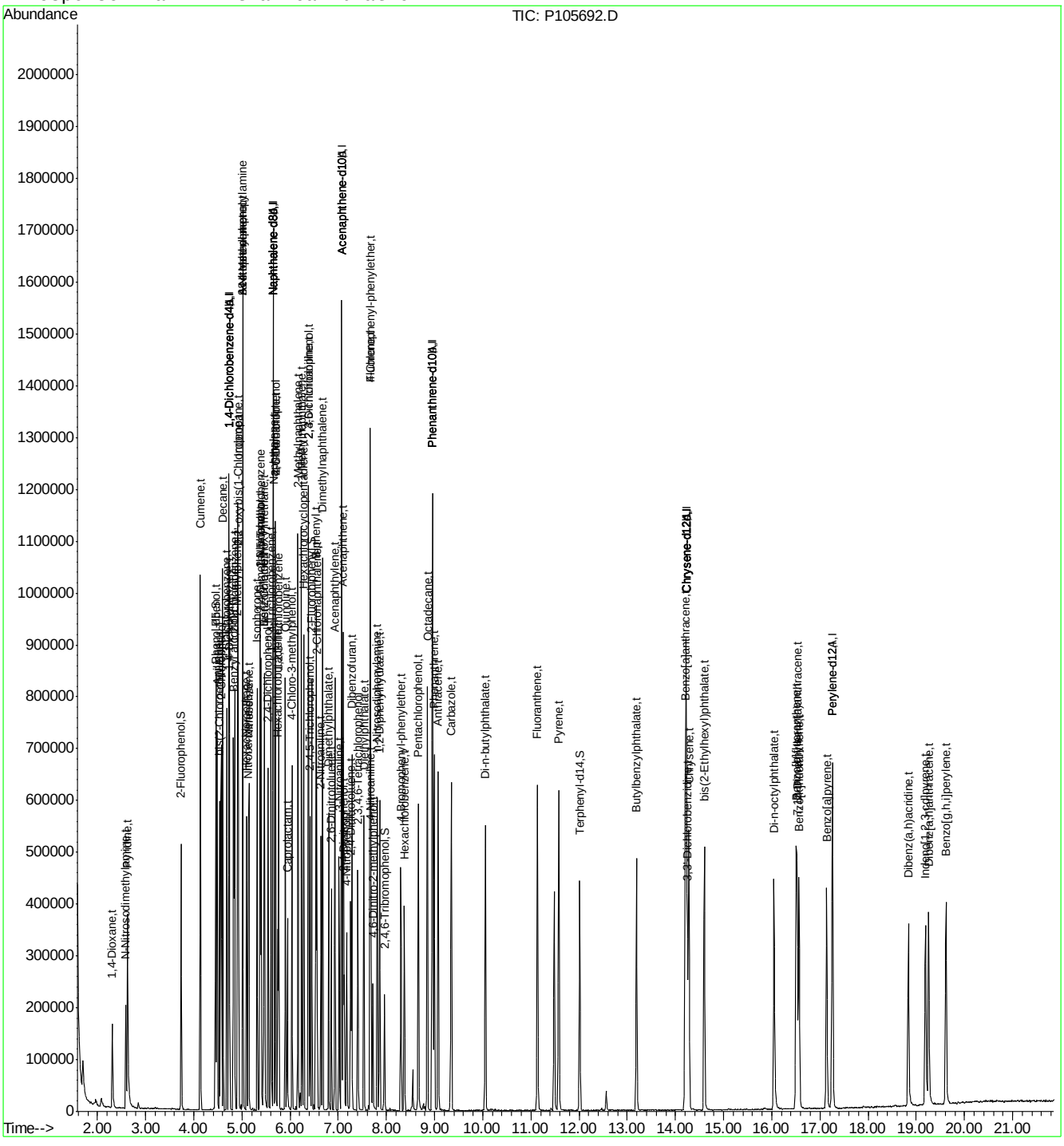
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105692.D Vial: 6
Acq On : 28 Jun 2016 1:43 pm Operator: ashleyd
Sample : ic4667-25 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:40 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:39:41 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105693.D Vial: 7
Acq On : 28 Jun 2016 2:18 pm Operator: ashleyd
Sample : icc4667-50 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:41:03 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:40:58 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	157904	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	553395	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	340120	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	554967	40.00	ppm	0.00
83) Chrysene-d12	14.23	240	412205	40.00	ppm	0.00
91) Perylene-d12	17.26	264	337013	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	157904	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	553395	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	340120	40.00	ppm	0.00
131) Phenanthrene-d10A	8.96	188	554967	40.00	ppm	0.00
146) Chrysene-d12A	14.23	240	412205	40.00	ppm	0.00
154) Perylene-d12A	17.26	264	337013	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	157904	40.00	ppm	0.00
160) Phenanthrene-d10b	8.96	188	554967	40.00	ppm	0.00
162) Chrysene-d12b	14.23	240	412205	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	553395	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	340120	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	553395	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	157904	40.00	ppm	-0.01
175) Chrysene-d12c	14.23	240	412205	40.00	ppm	0.00
177) Chrysene-d12d	14.23	240	412205	40.00	ppm	0.00
179) Naphthalene-d8d	5.65	136	553395	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.74	112	303311	51.15	ppm	0.00
Spiked Amount 50.000			Recovery = 102.30%			
8) Phenol-d5	4.45	99	388603	49.12	ppm	0.00
Spiked Amount 50.000			Recovery = 98.24%			
25) Nitrobenzene-d5	5.13	82	258864	48.27	ppm	0.00
Spiked Amount 50.000			Recovery = 96.54%			
51) 2-Fluorobiphenyl	6.45	172	399282	45.69	ppm	0.00
Spiked Amount 50.000			Recovery = 91.38%			
73) 2,4,6-Tribromophenol	7.96	330	38549	54.78	ppm	0.00
Spiked Amount 50.000			Recovery = 109.56%			
85) Terphenyl-d14	12.02	244	368005	49.09	ppm	0.00
Spiked Amount 50.000			Recovery = 98.18%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.31	88	168283	49.60	ppm		94
3) Pyridine	2.62	79	398055	50.87	ppm		97
4) N-Nitrosodimethylamine	2.59	42	121546	51.26	ppm	#	68
6) Indene	4.91	116	398797	41.82	ppm		99
7) Cumene	4.14	105	613604	45.94	ppm		97
9) Phenol	4.46	94	435247	46.74	ppm		99
10) Aniline	4.49	93	467293	45.19	ppm		44
11) bis(2-Chloroethyl)ether	4.53	93	282422	45.48	ppm		96
12) 2-Chlorophenol	4.57	128	266639	45.75	ppm		90
13) Decane	4.60	43	253221	42.38	ppm		92
14) 1,3-Dichlorobenzene	4.69	146	268930	47.30	ppm		99
15) 1,4-Dichlorobenzene	4.74	146	250467	47.05	ppm		97

(#) = qualifier out of range (m) = manual integration
P105693.D MP4667.M Tue Jun 28 18:42:31 2016

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105693.D Vial: 7
Acq On : 28 Jun 2016 2:18 pm Operator: ashleyd
Sample : icc4667-50 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:41:03 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:40:58 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.83	108	190476	50.93	ppm		90
17)	1,2-Dichlorobenzene	4.85	146	234437	46.25	ppm		97
18)	Acetophenone	5.02	105	293811	42.75	ppm		88
19)	2-Methylphenol	4.91	108	248453	47.89	ppm		99
20)	2,2'-oxybis(1-Chloropropan	4.93	121	79021	45.67	ppm	#	82
21)	3&4-Methylphenol	5.01	108	245220	45.72	ppm		98
22)	n-Nitroso-di-n-propylamine	5.02	70	148719	41.20	ppm		98
23)	Hexachloroethane	5.10	201	78835	50.09	ppm		96
26)	Nitrobenzene	5.14	77	257556	46.99	ppm		88
27)	Quinoline	5.91	129	508370	48.98	ppm		99
28)	Isophorone	5.31	82	500360	48.47	ppm		95
29)	2-Nitrophenol	5.37	139	138704	53.11	ppm		90
30)	2,4-Dimethylphenol	5.40	107	232405	46.44	ppm		98
31)	Benzoic acid	5.48	105	205022	54.31	ppm		86
32)	bis(2-Chloroethoxy)methane	5.47	93	307231	45.47	ppm		97
33)	2,4-Dichlorophenol	5.54	162	198926	51.17	ppm		97
34)	2,6-Dichlorophenol	5.70	162	176545	48.38	ppm		97
35)	1,3,5-Trichlorobenzene	5.38	180	190298	46.44	ppm		98
36)	1,2,4-Trichlorobenzene	5.60	180	188725	47.60	ppm		97
37)	1,2,3-Trichlorobenzene	5.76	180	178774	47.30	ppm		97
38)	Naphthalene	5.67	128	600824	45.35	ppm		98
39)	4-Chloroaniline	5.70	127	280542	46.83	ppm		98
40)	2,3-Dichloroaniline	6.38	161	206999	44.95	ppm		97
41)	Caprolactam	5.96	55	133513	49.92	ppm		91
42)	Hexachlorobutadiene	5.75	225	90992	49.69	ppm		96
43)	4-Chloro-3-methylphenol	6.04	107	220057	50.65	ppm		89
44)	2-Methylnaphthalene	6.16	141	350740	47.46	ppm		97
45)	1-Methylnaphthalene	6.24	142	432090	46.86	ppm		98
46)	Dimethylnaphthalene	6.68	156	362158	46.83	ppm		98
48)	Hexachlorocyclopentadiene	6.29	237	193789	126.93	ppm		93
49)	2,4,6-Trichlorophenol	6.38	196	123648	49.36	ppm		99
50)	2,4,5-Trichlorophenol	6.41	196	129747	50.34	ppm		99
52)	2-Chloronaphthalene	6.56	162	346751	43.60	ppm		97
53)	Biphenyl	6.54	154	497937	45.24	ppm		99
54)	2-Nitroaniline	6.64	65	139453	50.18	ppm		86
55)	Dimethylphthalate	6.80	163	404698	48.04	ppm		99
56)	Acenaphthylene	6.93	152	634909	47.20	ppm		99
57)	2,6-Dinitrotoluene	6.86	165	99451	55.95	ppm		82
58)	3-Nitroaniline	7.02	138	142051	53.17	ppm		86
59)	Acenaphthene	7.10	153	373485	46.90	ppm		99
60)	2,4-Dinitrophenol	7.12	184	112892	155.31	ppm	#	74
61)	4-Nitrophenol	7.18	109	49077	57.74	ppm	#	86
62)	Dibenzofuran	7.28	168	515641	46.53	ppm		89
63)	2,4-Dinitrotoluene	7.26	165	135507	57.12	ppm		72
64)	2,3,4,6-Tetrachlorophenol	7.41	232	104545	54.75	ppm		96
65)	Diethylphthalate	7.54	149	425520	49.07	ppm		98
66)	Fluorene	7.67	166	407482	45.16	ppm		98
67)	4-Chlorophenyl-phenylether	7.67	204	179702	46.29	ppm		98
68)	4-Nitroaniline	7.69	138	134045	52.09	ppm		91

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105693.D Vial: 7
Acq On : 28 Jun 2016 2:18 pm Operator: ashleyd
Sample : icc4667-50 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:41:03 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:40:58 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.72	198	77297	71.75	ppm	86
71)	n-Nitrosodiphenylamine	7.81	169	294961	48.34	ppm	98
72)	1,2-Diphenylhydrazine	7.86	77	507579	46.90	ppm	91
74)	4-Bromophenyl-phenylether	8.31	248	103666	50.13	ppm	92
75)	Hexachlorobenzene	8.37	284	97420	49.38	ppm	75
76)	Pentachlorophenol	8.66	266	139534	118.45	ppm	98
77)	Phenanthrene	9.00	178	569093	48.40	ppm	100
78)	Anthracene	9.08	178	590660	49.95	ppm	99
79)	Carbazole	9.35	167	633827	49.68	ppm	99
80)	Di-n-butylphthalate	10.06	149	764364	51.86	ppm	99
81)	Fluoranthene	11.14	202	670233	51.97	ppm	86
82)	Octadecane	8.85	57	359169	47.46	ppm	91
84)	Pyrene	11.59	202	676345	48.64	ppm	87
86)	Butylbenzylphthalate	13.19	149	344727	53.55	ppm	87
87)	Benzo[a]anthracene	14.21	228	551785	49.30	ppm	100
88)	3,3'-Dichlorobenzidine	14.26	252	192550	55.58	ppm	98
89)	Chrysene	14.29	228	511371	49.27	ppm	99
90)	bis(2-Ethylhexyl)phthalate	14.60	149	444614	54.38	ppm	99
92)	Di-n-octylphthalate	16.05	149	779253	56.40	ppm	98
93)	Benzo[b]fluoranthene	16.51	252	532383	51.17	ppm	94
94)	Benzo[k]fluoranthene	16.58	252	475549	47.89	ppm	93
95)	Benzo[a]pyrene	17.15	252	482489	51.12	ppm	92
96)	Indeno[1,2,3-cd]pyrene	19.20	276	386569	50.96	ppm	67
97)	Dibenz(a,h)acridine	18.85	279	368253	53.23	ppm	99
98)	Dibenz[a,h]anthracene	19.27	278	396026	51.28	ppm	87
99)	7,12-Dimethylbenz(a)anthra	16.54	256	242640	50.39	ppm	96
100)	Benzo[g,h,i]perylene	19.63	276	426661	51.42	ppm	85

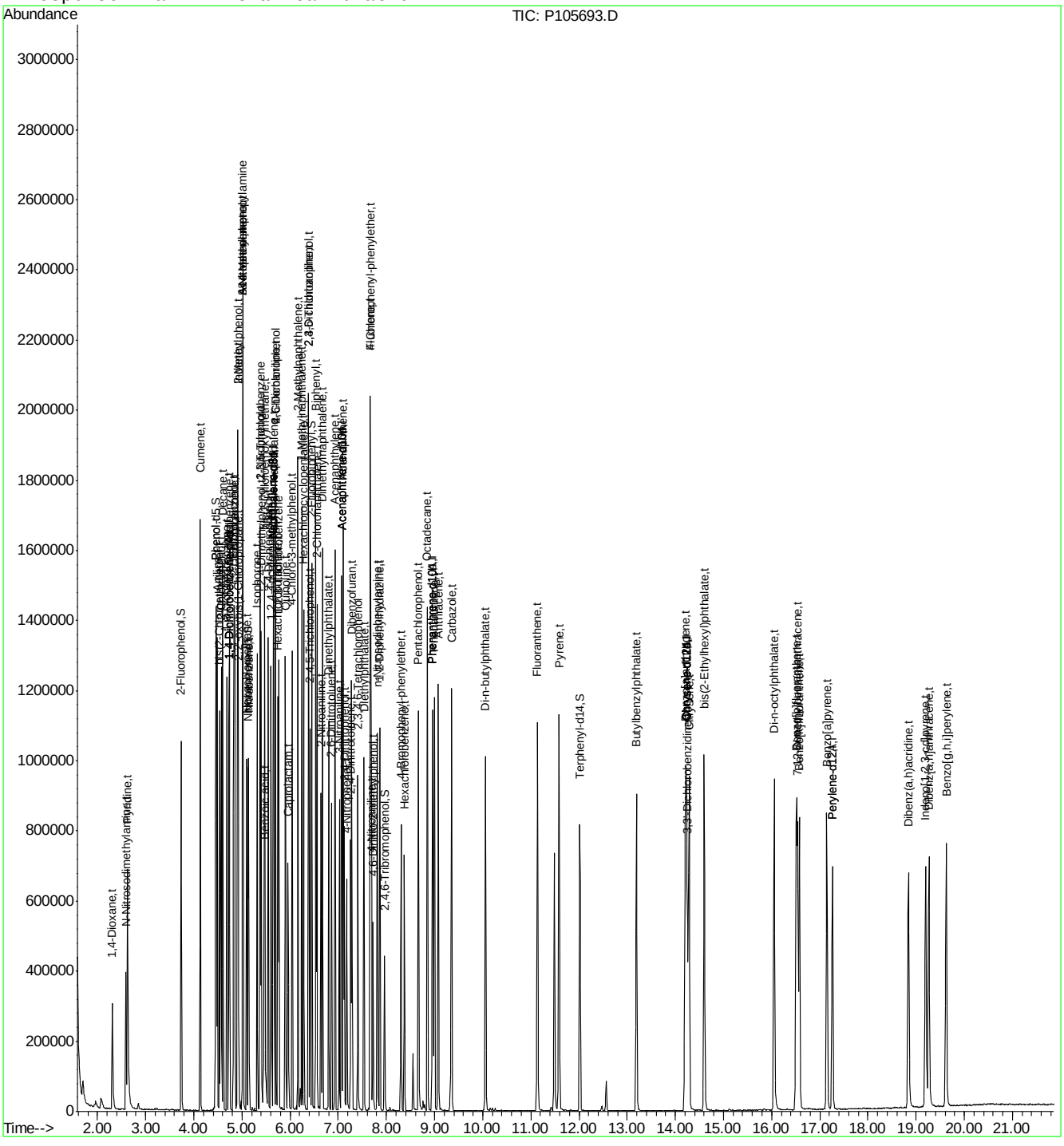
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105693.D Vial: 7
Acq On : 28 Jun 2016 2:18 pm Operator: ashleyd
Sample : icc4667-50 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:42 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:40:58 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105694.D Vial: 8
Acq On : 28 Jun 2016 2:47 pm Operator: ashleyd
Sample : ic4667-80 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:27:39 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:27:37 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	157062	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	550018	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	334248	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	560747	40.00	ppm	0.00
83) Chrysene-d12	14.24	240	407665	40.00	ppm	0.00
91) Perylene-d12	17.26	264	337791	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	157062	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	550018	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	334248	40.00	ppm	0.00
131) Phenanthrene-d10A	8.96	188	560747	40.00	ppm	0.00
146) Chrysene-d12A	14.24	240	407665	40.00	ppm	0.00
154) Perylene-d12A	17.26	264	337791	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	157062	40.00	ppm	0.00
160) Phenanthrene-d10b	8.96	188	560747	40.00	ppm	0.00
162) Chrysene-d12b	14.24	240	407665	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	550018	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	334248	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	550018	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	157062	40.00	ppm	0.00
175) Chrysene-d12c	14.24	240	407665	40.00	ppm	0.00
177) Chrysene-d12d	14.24	240	407665	40.00	ppm	0.00
179) Naphthalene-d8d	5.65	136	550018	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.74	112	462262	77.52	ppm	0.00
Spiked Amount 50.000			Recovery = 155.04%			
8) Phenol-d5	4.45	99	564856	74.90	ppm	0.00
Spiked Amount 50.000			Recovery = 149.80%			
25) Nitrobenzene-d5	5.13	82	381287	76.33	ppm	0.00
Spiked Amount 50.000			Recovery = 152.66%			
51) 2-Fluorobiphenyl	6.45	172	569579	71.56	ppm	0.00
Spiked Amount 50.000			Recovery = 143.12%			
73) 2,4,6-Tribromophenol	7.96	330	64604	84.67	ppm	0.00
Spiked Amount 50.000			Recovery = 169.34%			
85) Terphenyl-d14	12.02	244	578862	73.60	ppm	0.00
Spiked Amount 50.000			Recovery = 147.20%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.31	88	260707	74.15	ppm		94
3) Pyridine	2.62	79	608813	78.42	ppm		98
4) N-Nitrosodimethylamine	2.59	42	190595	80.36	ppm	#	75
6) Indene	4.92	116	523569	61.62	ppm		98
7) Cumene	4.14	105	847406	67.57	ppm		94
9) Phenol	4.46	94	610915	69.97	ppm		94
10) Aniline	4.49	93	668134	68.21	ppm		39
11) bis(2-Chloroethyl)ether	4.54	93	407058	71.75	ppm		98
12) 2-Chlorophenol	4.58	128	381362	68.45	ppm		92
13) Decane	4.60	43	347473	80.00	ppm		93
14) 1,3-Dichlorobenzene	4.69	146	387745	71.61	ppm		99
15) 1,4-Dichlorobenzene	4.74	146	362260	70.30	ppm		96

(#) = qualifier out of range (m) = manual integration
P105694.D MP4667.M Tue Jun 28 18:29:02 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105694.D Vial: 8
Acq On : 28 Jun 2016 2:47 pm Operator: ashleyd
Sample : ic4667-80 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:27:39 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:27:37 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.83	108	276982	78.25	ppm		93
17)	1,2-Dichlorobenzene	4.85	146	322221	67.09	ppm		95
18)	Acetophenone	5.03	105	375149	64.70	ppm		94
19)	2-Methylphenol	4.91	108	338627	69.89	ppm		99
20)	2,2'-oxybis(1-Chloropropan	4.93	121	115447	72.62	ppm	#	91
21)	3&4-Methylphenol	5.01	108	324571	64.98	ppm		98
22)	n-Nitroso-di-n-propylamine	5.03	70	202441	65.98	ppm		100
23)	Hexachloroethane	5.10	201	121447	80.59	ppm		99
26)	Nitrobenzene	5.15	77	366884	73.71	ppm		96
27)	Quinoline	5.91	129	760338	77.56	ppm		97
28)	Isophorone	5.32	82	717764	75.39	ppm		99
29)	2-Nitrophenol	5.37	139	194679	78.81	ppm		92
30)	2,4-Dimethylphenol	5.40	107	327215	71.42	ppm		98
31)	Benzoic acid	5.49	105	337118	80.17	ppm		85
32)	bis(2-Chloroethoxy)methane	5.47	93	442582	72.49	ppm		96
33)	2,4-Dichlorophenol	5.54	162	289473	77.93	ppm		94
34)	2,6-Dichlorophenol	5.71	162	250511	74.16	ppm		96
35)	1,3,5-Trichlorobenzene	5.38	180	267897	67.79	ppm		100
36)	1,2,4-Trichlorobenzene	5.61	180	275868	72.96	ppm		99
37)	1,2,3-Trichlorobenzene	5.76	180	255252	67.33	ppm		98
38)	Naphthalene	5.67	128	812053	65.62	ppm		97
39)	4-Chloroaniline	5.70	127	372630	80.00	ppm		95
40)	2,3-Dichloroaniline	6.39	161	284732	69.12	ppm		97
41)	Caprolactam	5.98	55	209943	81.36	ppm		94
42)	Hexachlorobutadiene	5.75	225	134820	77.08	ppm		99
43)	4-Chloro-3-methylphenol	6.05	107	319560	77.91	ppm		94
44)	2-Methylnaphthalene	6.16	141	489582	73.84	ppm		98
45)	1-Methylnaphthalene	6.24	142	597485	73.12	ppm		98
46)	Dimethylnaphthalene	6.68	156	509456	73.88	ppm		98
48)	Hexachlorocyclopentadiene	6.29	237	288657	203.63	ppm		98
49)	2,4,6-Trichlorophenol	6.38	196	174000	75.82	ppm		100
50)	2,4,5-Trichlorophenol	6.41	196	194026	77.88	ppm		98
52)	2-Chloronaphthalene	6.56	162	505143	69.55	ppm		96
53)	Biphenyl	6.54	154	681273	69.44	ppm		97
54)	2-Nitroaniline	6.64	65	211506	79.98	ppm		84
55)	Dimethylphthalate	6.80	163	601879	76.23	ppm		98
56)	Acenaphthylene	6.93	152	891661	73.17	ppm		97
57)	2,6-Dinitrotoluene	6.86	165	157263	9.37	ppm		89
58)	3-Nitroaniline	7.02	138	223568	83.25	ppm		87
59)	Acenaphthene	7.10	153	534619	72.16	ppm		96
60)	2,4-Dinitrophenol	7.13	184	193603	219.63	ppm	#	70
61)	4-Nitrophenol	7.18	109	79683	90.89	ppm		88
62)	Dibenzofuran	7.29	168	733373	72.06	ppm		87
63)	2,4-Dinitrotoluene	7.26	165	210183	88.97	ppm		80
64)	2,3,4,6-Tetrachlorophenol	7.41	232	168212	84.85	ppm		97
65)	Diethylphthalate	7.54	149	628226	76.77	ppm		96
66)	Fluorene	7.67	166	565354	71.99	ppm		96
67)	4-Chlorophenyl-phenylether	7.67	204	262020	74.67	ppm		98
68)	4-Nitroaniline	7.70	138	213650	84.18	ppm		94

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

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105694.D Vial: 8
Acq On : 28 Jun 2016 2:47 pm Operator: ashleyd
Sample : ic4667-80 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:27:39 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:27:37 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.73	198	129231	104.75	ppm	86
71)	n-Nitrosodiphenylamine	7.81	169	455034	76.47	ppm	99
72)	1,2-Diphenylhydrazine	7.87	77	733445	74.78	ppm	95
74)	4-Bromophenyl-phenylether	8.31	248	165690	78.95	ppm	94
75)	Hexachlorobenzene	8.38	284	155469	78.39	ppm	79
76)	Pentachlorophenol	8.67	266	216325	174.50	ppm	99
77)	Phenanthrene	9.00	178	856748	75.71	ppm	99
78)	Anthracene	9.08	178	883408	78.22	ppm	98
79)	Carbazole	9.36	167	950131	76.36	ppm	99
80)	Di-n-butylphthalate	10.06	149	1145175	77.05	ppm	98
81)	Fluoranthene	11.14	202	1022777	80.12	ppm	91
82)	Octadecane	8.86	57	522260	74.89	ppm	90
84)	Pyrene	11.59	202	1025757	77.20	ppm	91
86)	Butylbenzylphthalate	13.19	149	542047	79.91	ppm	90
87)	Benzo[a]anthracene	14.21	228	864445	76.19	ppm	99
88)	3,3'-Dichlorobenzidine	14.26	252	314478	86.85	ppm	98
89)	Chrysene	14.29	228	794920	77.39	ppm	99
90)	bis(2-Ethylhexyl)phthalate	14.60	149	697779	79.00	ppm	98
92)	Di-n-octylphthalate	16.05	149	1230838	80.13	ppm	97
93)	Benzo[b]fluoranthene	16.52	252	839734	77.79	ppm	97
94)	Benzo[k]fluoranthene	16.59	252	754725	74.54	ppm	94
95)	Benzo[a]pyrene	17.16	252	767757	76.95	ppm	94
96)	Indeno[1,2,3-cd]pyrene	19.21	276	631300	75.49	ppm	73
97)	Dibenz(a,h)acridine	18.85	279	599093	79.18	ppm	100
98)	Dibenz[a,h]anthracene	19.27	278	632159	75.19	ppm	89
99)	7,12-Dimethylbenz(a)anthra	16.55	256	385575	75.54	ppm	97
100)	Benzo[g,h,i]perylene	19.64	276	681869	75.83	ppm	88

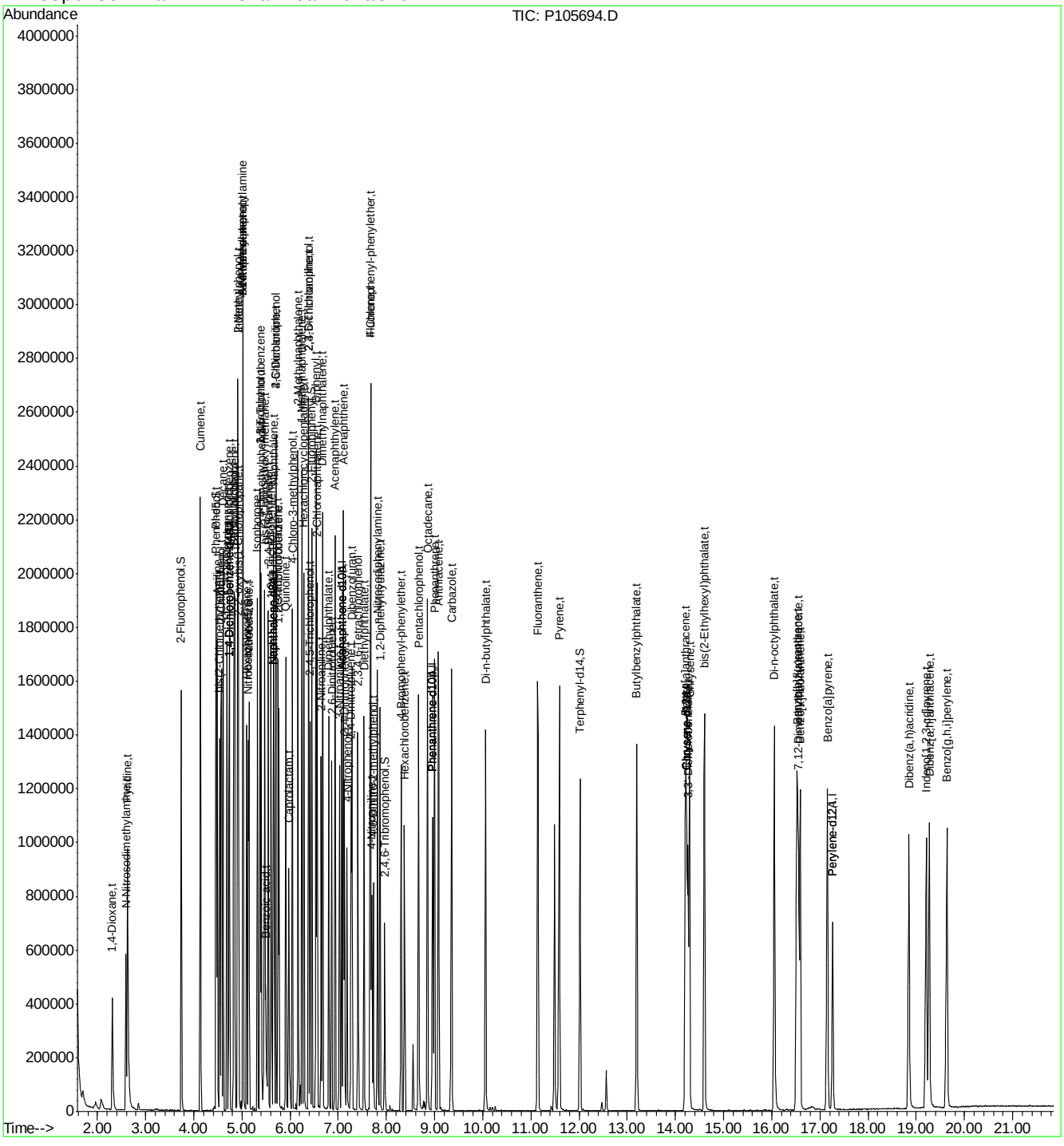
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4667\P105694.D Vial: 8
Acq On : 28 Jun 2016 2:47 pm Operator: ashleyd
Sample : ic4667-80 Inst : MSP
Misc : op93881,ep4667 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 28 18:28 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jun 28 18:27:48 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105705.D Vial: 10
Acq On : 28 Jun 2016 10:54 pm Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 10:46:42 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	164594	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	553529	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	307162	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	474797	40.00	ppm	0.00
83) Chrysene-d12	14.22	240	369911	40.00	ppm	-0.01
91) Perylene-d12	17.26	264	292445	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	164594	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	553529	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	307162	40.00	ppm	0.00
131) Phenanthrene-d10A	8.96	188	474797	40.00	ppm	0.00
146) Chrysene-d12A	14.22	240	369911	40.00	ppm	-0.01
154) Perylene-d12A	17.26	264	292445	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	164594	40.00	ppm	0.00
160) Phenanthrene-d10b	8.96	188	474797	40.00	ppm	0.00
162) Chrysene-d12b	14.22	240	369911	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	553529	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	307162	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	553529	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	164594	40.00	ppm	-0.01
175) Chrysene-d12c	14.22	240	369911	40.00	ppm	-0.01
177) Chrysene-d12d	14.22	240	369911	40.00	ppm	-0.01
179) Naphthalene-d8d	5.65	136	553529	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
9) Phenol	4.46	94	420631	43.69	ppm	96
12) 2-Chlorophenol	4.57	128	281718	46.87	ppm	91
19) 2-Methylphenol	4.90	108	272237	50.60	ppm	98
21) 3&4-Methylphenol	5.01	108	282341	51.05	ppm	98
29) 2-Nitrophenol	5.37	139	131763	50.05	ppm	82
30) 2,4-Dimethylphenol	5.39	107	240841	48.55	ppm	95
31) Benzoic acid	5.47	105	179343	46.82	ppm	85
33) 2,4-Dichlorophenol	5.54	162	186559	47.84	ppm	93
34) 2,6-Dichlorophenol	5.70	162	181297	49.87	ppm	95
43) 4-Chloro-3-methylphenol	6.04	107	212714	48.87	ppm	89
49) 2,4,6-Trichlorophenol	6.38	196	123999	54.90	ppm	98
50) 2,4,5-Trichlorophenol	6.41	196	119199	51.17	ppm	98

(#) = qualifier out of range (m) = manual integration
P105705.D MP4667.M Wed Jun 29 15:15:06 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105705.D Vial: 10
Acq On : 28 Jun 2016 10:54 pm Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 10:46:42 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
60)	2,4-Dinitrophenol	7.12	184	37909	41.88	ppm		76
61)	4-Nitrophenol	7.17	109	47568	60.80	ppm	#	80
64)	2,3,4,6-Tetrachlorophenol	7.40	232	88865	50.93	ppm		87
70)	4,6-Dinitro-2-methylphenol	7.72	198	61716	47.41	ppm		80
76)	Pentachlorophenol	8.66	266	58575	56.81	ppm		96

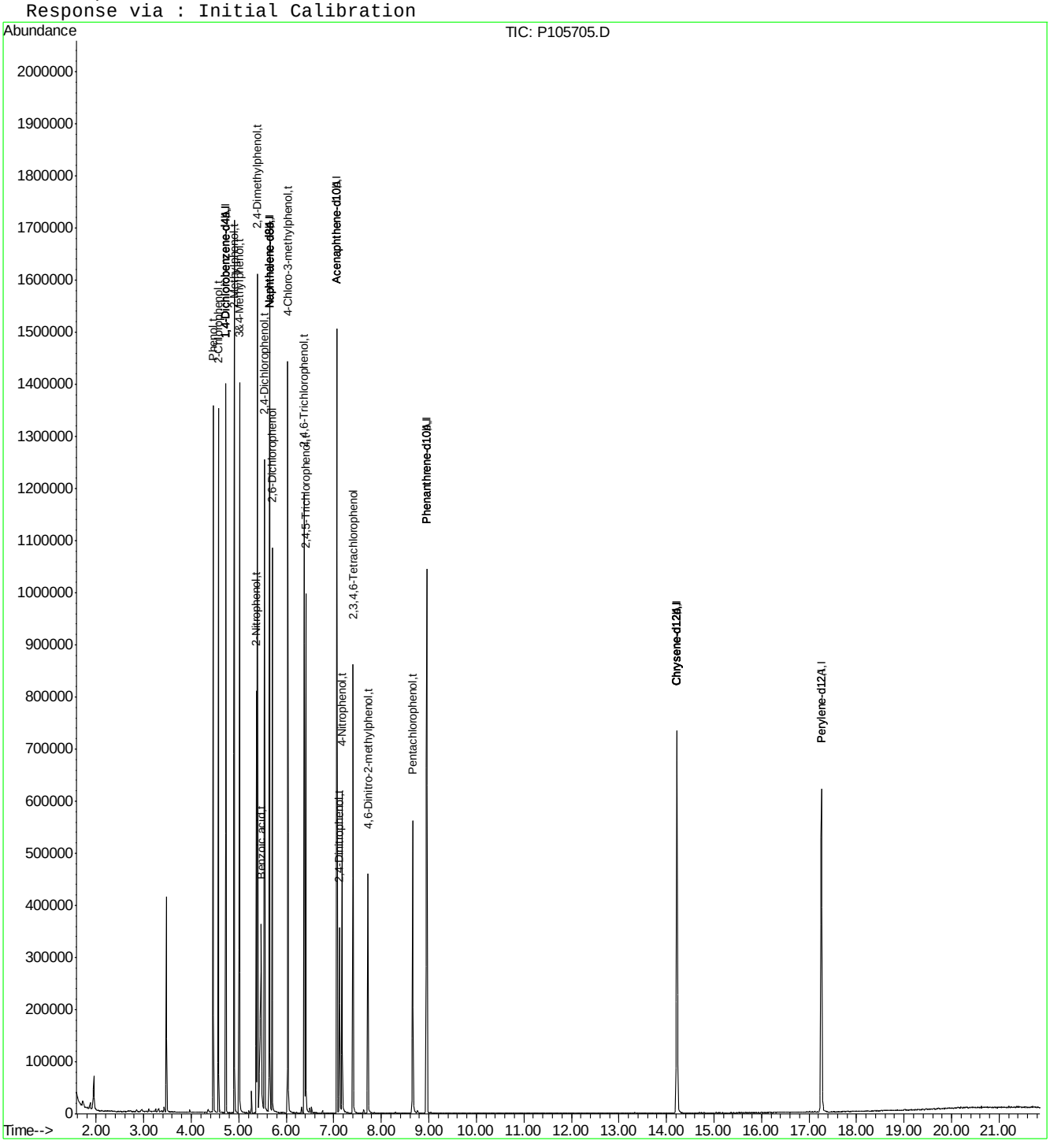
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105705.D Vial: 10
Acq On : 28 Jun 2016 10:54 pm Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 10:48 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105707.D Vial: 12
Acq On : 28 Jun 2016 11:52 pm Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 10:50:26 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	173285	40.00 ppm	0.00
24) Naphthalene-d8	5.65	136	595629	40.00 ppm	0.00
47) Acenaphthene-d10	7.07	164	313854	40.00 ppm	0.00
69) Phenanthrene-d10	8.95	188	490676	40.00 ppm	0.00
83) Chrysene-d12	14.22	240	376594	40.00 ppm	-0.01
91) Perylene-d12	17.26	264	295270	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	173285	40.00 ppm	0.00
111) Naphthalene-d8A	5.65	136	595629	40.00 ppm	0.00
120) Acenaphthene-d10A	7.07	164	313854	40.00 ppm	0.00
131) Phenanthrene-d10A	8.95	188	490676	40.00 ppm	0.00
146) Chrysene-d12A	14.22	240	376594	40.00 ppm	-0.01
154) Perylene-d12A	17.26	264	295270	40.00 ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	173285	40.00 ppm	0.00
160) Phenanthrene-d10b	8.95	188	490676	40.00 ppm	0.00
162) Chrysene-d12b	14.22	240	376594	40.00 ppm	0.00
164) Naphthalene-d8b	5.65	136	595629	40.00 ppm	0.00
166) Acenaphthene-d10b	7.07	164	313854	40.00 ppm	0.00
168) Naphthalene-d8c	5.65	136	595629	40.00 ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	173285	40.00 ppm	-0.01
175) Chrysene-d12c	14.22	240	376594	40.00 ppm	-0.01
177) Chrysene-d12d	14.22	240	376594	40.00 ppm	-0.01
179) Naphthalene-d8d	5.65	136	595629	40.00 ppm	0.00

System Monitoring Compounds					
5) 2-Fluorophenol	3.74	112	325421	49.87 ppm	0.00
Spiked Amount 50.000			Recovery = 99.74%		
8) Phenol-d5	4.45	99	425334	49.10 ppm	0.00
Spiked Amount 50.000			Recovery = 98.20%		
25) Nitrobenzene-d5	5.13	82	316115	55.01 ppm	0.00
Spiked Amount 50.000			Recovery = 110.02%		
51) 2-Fluorobiphenyl	6.45	172	467100	58.56 ppm	0.00
Spiked Amount 50.000			Recovery = 117.12%		
73) 2,4,6-Tribromophenol	7.96	330	34571	54.91 ppm	0.00
Spiked Amount 50.000			Recovery = 109.82%		
85) Terphenyl-d14	12.01	244	354380	51.86 ppm	0.00
Spiked Amount 50.000			Recovery = 103.72%		

Target Compounds Qvalue

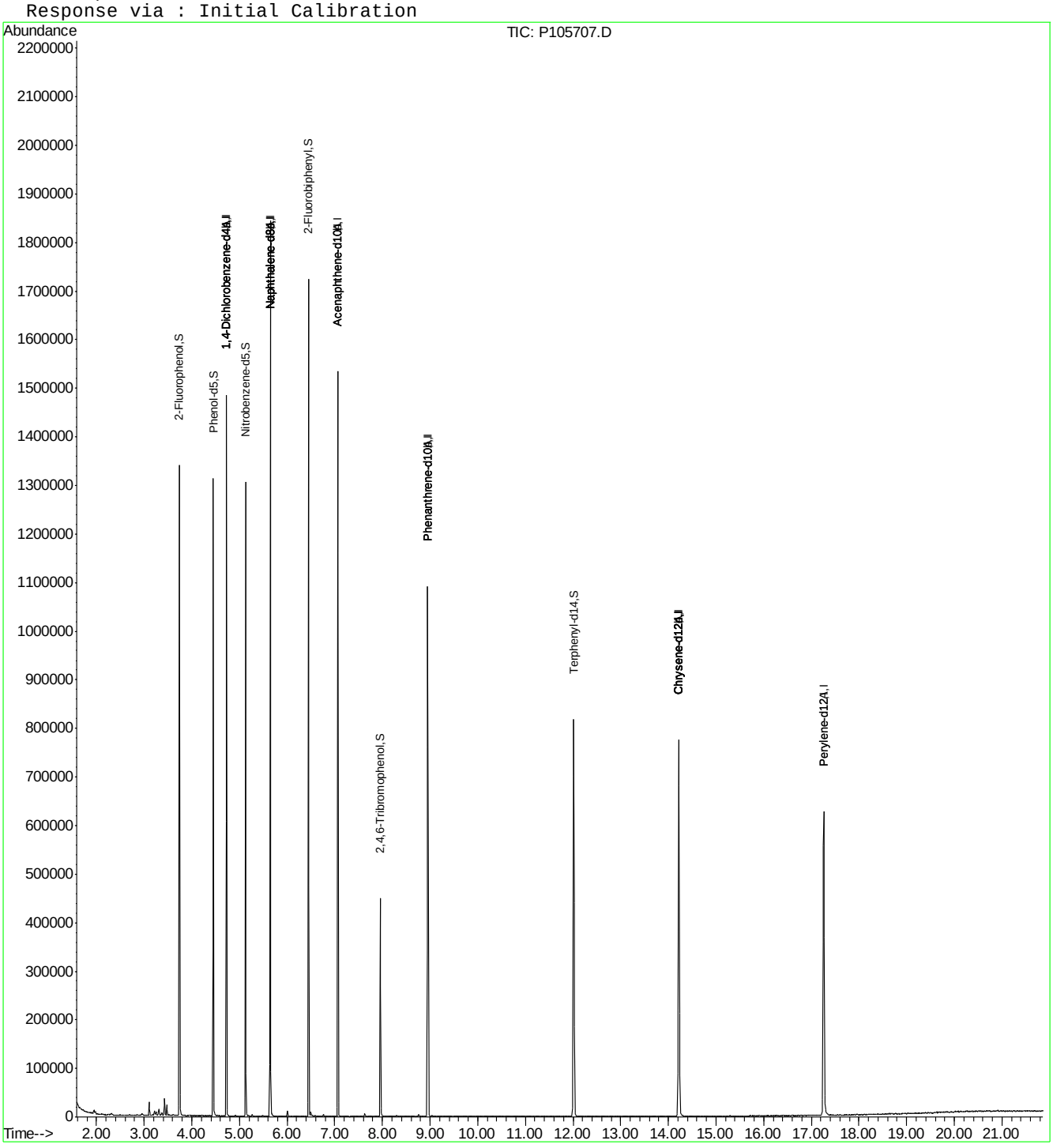
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105707.D Vial: 12
Acq On : 28 Jun 2016 11:52 pm Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 10:51 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105708.D Vial: 13
Acq On : 29 Jun 2016 12:21 am Operator: ashleyd
Sample : icV4667-50 Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 10:51:29 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	162651	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	558264	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	296616	40.00	ppm	0.00
69) Phenanthrene-d10	8.95	188	475666	40.00	ppm	0.00
83) Chrysene-d12	14.22	240	388986	40.00	ppm	-0.01
91) Perylene-d12	17.26	264	308141	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	162651	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	558264	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	296616	40.00	ppm	0.00
131) Phenanthrene-d10A	8.95	188	475666	40.00	ppm	0.00
146) Chrysene-d12A	14.22	240	388986	40.00	ppm	-0.01
154) Perylene-d12A	17.26	264	308141	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	162651	40.00	ppm	0.00
160) Phenanthrene-d10b	8.95	188	475666	40.00	ppm	0.00
162) Chrysene-d12b	14.22	240	388986	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	558264	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	296616	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	558264	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	162651	40.00	ppm	-0.01
175) Chrysene-d12c	14.22	240	388986	40.00	ppm	-0.01
177) Chrysene-d12d	14.22	240	388986	40.00	ppm	-0.01
179) Naphthalene-d8d	5.65	136	558264	40.00	ppm	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

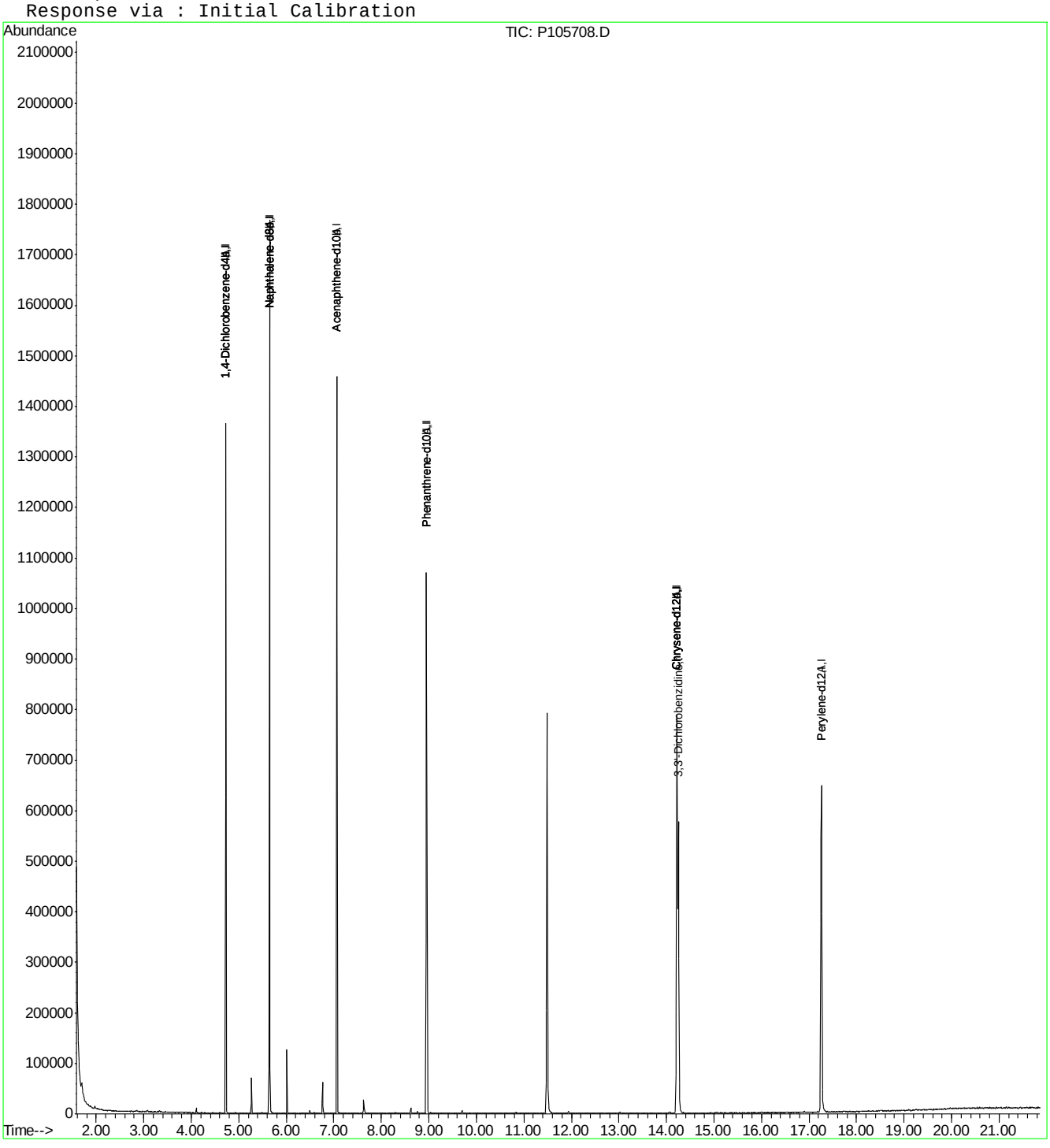
						Qvalue
88) 3,3'-Dichlorobenzidine	14.25	252	162978	49.17	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
P105708.D MP4667.M Wed Jun 29 15:54:28 2016 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105708.D Vial: 13
Acq On : 29 Jun 2016 12:21 am Operator: ashleyd
Sample : icV4667-50 Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 15:13 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105709.D Vial: 14
Acq On : 29 Jun 2016 12:50 am Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 11:16:37 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	152996	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	521867	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	284458	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	476559	40.00	ppm	0.00
83) Chrysene-d12	14.23	240	380230	40.00	ppm	0.00
91) Perylene-d12	17.26	264	310804	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	152996	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	521867	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	284458	40.00	ppm	0.00
131) Phenanthrene-d10A	8.96	188	476559	40.00	ppm	0.00
146) Chrysene-d12A	14.23	240	380230	40.00	ppm	0.00
154) Perylene-d12A	17.26	264	310804	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	152996	40.00	ppm	0.00
160) Phenanthrene-d10b	8.96	188	476559	40.00	ppm	0.00
162) Chrysene-d12b	14.23	240	380230	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	521867	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	284458	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	521867	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	152996	40.00	ppm	-0.01
175) Chrysene-d12c	14.23	240	380230	40.00	ppm	0.00
177) Chrysene-d12d	14.23	240	380230	40.00	ppm	0.00
179) Naphthalene-d8d	5.65	136	521867	40.00	ppm	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

							Qvalue
4) N-Nitrosodimethylamine	2.59	42	125846	54.60	ppm		78
11) bis(2-Chloroethyl)ether	4.53	93	352863	59.32	ppm		95
14) 1,3-Dichlorobenzene	4.68	146	282861	51.70	ppm		99
15) 1,4-Dichlorobenzene	4.74	146	257251	50.24	ppm		96
17) 1,2-Dichlorobenzene	4.85	146	260380	53.52	ppm		98
20) 2,2'-oxybis(1-Chloropropan	4.92	121	89632	54.05	ppm	#	61
22) n-Nitroso-di-n-propylamine	5.01	70	205917	57.77	ppm		93
23) Hexachloroethane	5.09	201	79998	52.45	ppm	#	79
26) Nitrobenzene	5.14	77	274586	53.53	ppm		89
28) Isophorone	5.31	82	518196	53.44	ppm		98
32) bis(2-Chloroethoxy)methane	5.46	93	358294	56.88	ppm		99
36) 1,2,4-Trichlorobenzene	5.60	180	197561	53.16	ppm		98

(#) = qualifier out of range (m) = manual integration
P105709.D MP4667.M Wed Jun 29 15:54:34 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105709.D Vial: 14
Acq On : 29 Jun 2016 12:50 am Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 11:16:37 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Naphthalene	5.66	128	628373	50.89	ppm	97
42)	Hexachlorobutadiene	5.75	225	93286	54.06	ppm	99
48)	Hexachlorocyclopentadiene	6.28	237	78770	55.30	ppm	92
52)	2-Chloronaphthalene	6.55	162	385816	58.94	ppm	95
55)	Dimethylphthalate	6.80	163	405709	57.87	ppm	99
56)	Acenaphthylene	6.93	152	610736	54.67	ppm	99
57)	2,6-Dinitrotoluene	6.86	165	92239	61.14	ppm	80
59)	Acenaphthene	7.10	153	378141	57.22	ppm	99
63)	2,4-Dinitrotoluene	7.26	165	116660	57.77	ppm	73
65)	Diethylphthalate	7.53	149	425625	58.82	ppm	98
66)	Fluorene	7.66	166	405632	54.41	ppm	97
67)	4-Chlorophenyl-phenylether	7.66	204	182242	56.65	ppm	98
71)	n-Nitrosodiphenylamine	7.81	169	299499	57.40	ppm	98
72)	1,2-Diphenylhydrazine	7.86	77	511158	55.43	ppm	92
74)	4-Bromophenyl-phenylether	8.30	248	104674	58.92	ppm	90
75)	Hexachlorobenzene	8.38	284	96781	57.22	ppm	77
77)	Phenanthrene	8.99	178	572072	56.89	ppm	100
78)	Anthracene	9.07	178	565371	55.68	ppm	99
80)	Di-n-butylphthalate	10.05	149	740874	58.26	ppm	99
81)	Fluoranthene	11.14	202	638092	57.34	ppm	87
84)	Pyrene	11.58	202	669105	52.34	ppm	87
86)	Butylbenzylphthalate	13.19	149	325527	54.33	ppm	85
87)	Benzo[a]anthracene	14.20	228	521972	50.65	ppm	99
89)	Chrysene	14.28	228	474556	49.66	ppm	99
90)	bis(2-Ethylhexyl)phthalate	14.60	149	418005	54.82	ppm	99
92)	Di-n-octylphthalate	16.05	149	720897	55.68	ppm	96
93)	Benzo[b]fluoranthene	16.52	252	471553	49.00	ppm	95
94)	Benzo[k]fluoranthene	16.57	252	471556	51.76	ppm	93
95)	Benzo[a]pyrene	17.15	252	451519	51.72	ppm	92
96)	Indeno[1,2,3-cd]pyrene	19.20	276	362269	51.66	ppm	67
98)	Dibenz[a,h]anthracene	19.27	278	366423	51.28	ppm	87
100)	Benzo[g,h,i]perylene	19.63	276	400078	52.09	ppm	86

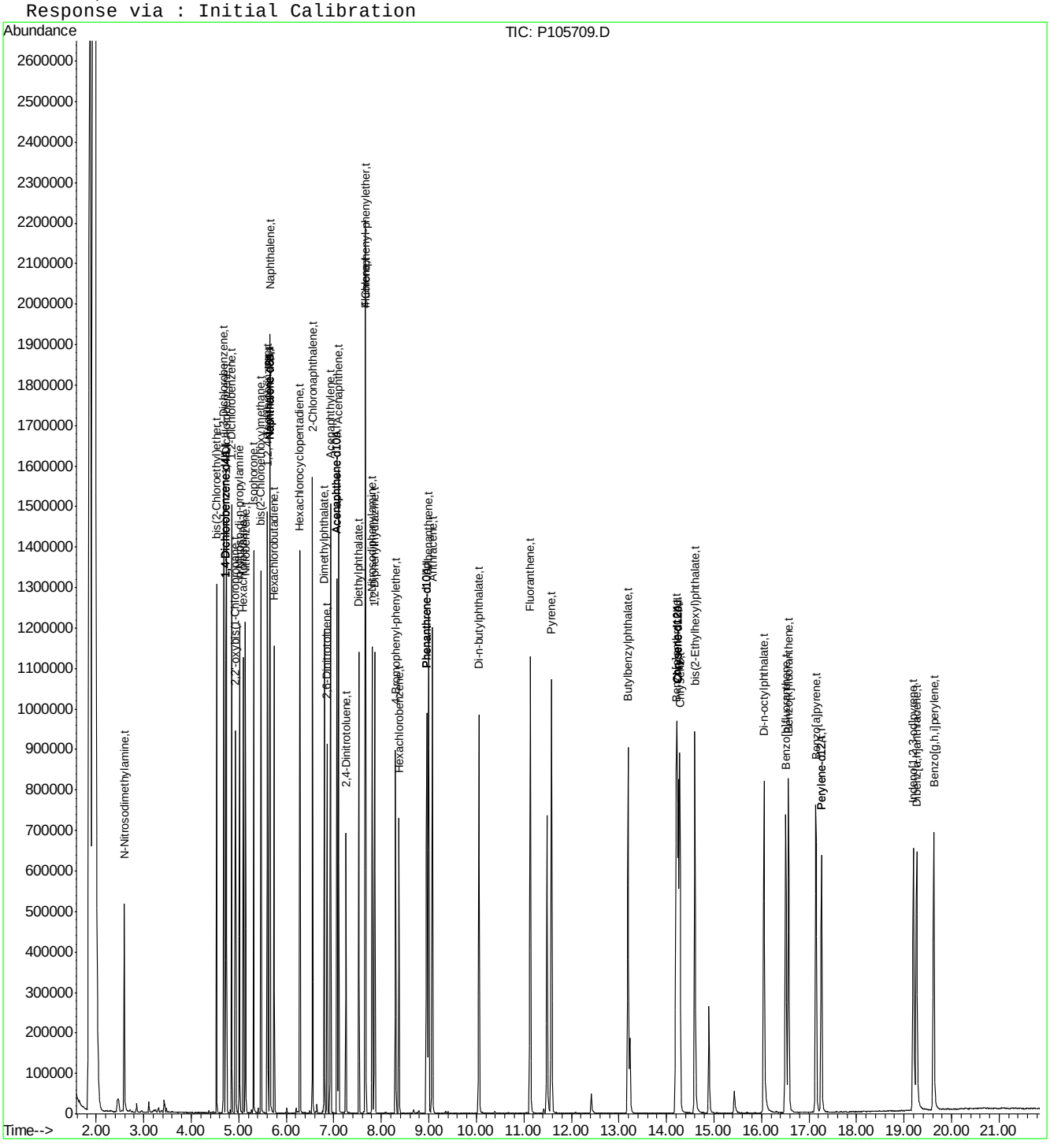
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4668\P105709.D Vial: 14
Acq On : 29 Jun 2016 12:50 am Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4668 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 15:42 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4669\P105714.D Vial: 2
Acq On : 29 Jun 2016 11:15 am Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4669 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 11:38:19 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	157860	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	612182	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	314756	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	532963	40.00	ppm	0.00
83) Chrysene-d12	14.22	240	418389	40.00	ppm	0.00
91) Perylene-d12	17.26	264	317289	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	157860	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	612182	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	314756	40.00	ppm	0.00
131) Phenanthrene-d10A	8.96	188	532963	40.00	ppm	0.00
146) Chrysene-d12A	14.22	240	418389	40.00	ppm	0.00
154) Perylene-d12A	17.26	264	317289	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	157860	40.00	ppm	0.00
160) Phenanthrene-d10b	8.96	188	532963	40.00	ppm	0.00
162) Chrysene-d12b	14.22	240	418389	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	612182	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	314756	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	612182	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	157860	40.00	ppm	0.00
175) Chrysene-d12c	14.22	240	418389	40.00	ppm	0.00
177) Chrysene-d12d	14.22	240	418389	40.00	ppm	0.00
179) Naphthalene-d8d	5.65	136	612182	40.00	ppm	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds

						Qvalue
3) Pyridine	2.70	79	455859	58.14	ppm	97
10) Aniline	4.49	93	565484	55.37	ppm	45
16) Benzyl alcohol	4.83	108	224446	59.89	ppm	98
39) 4-Chloroaniline	5.70	127	335189	50.98	ppm	96
44) 2-Methylnaphthalene	6.16	141	380211	46.80	ppm	97
54) 2-Nitroaniline	6.64	65	165268	64.23	ppm	83
58) 3-Nitroaniline	7.02	138	158097	63.45	ppm	80
62) Dibenzofuran	7.28	168	594117	58.44	ppm	88
68) 4-Nitroaniline	7.69	138	161375	67.41	ppm	86
79) Carbazole	9.36	167	705852	57.66	ppm	100

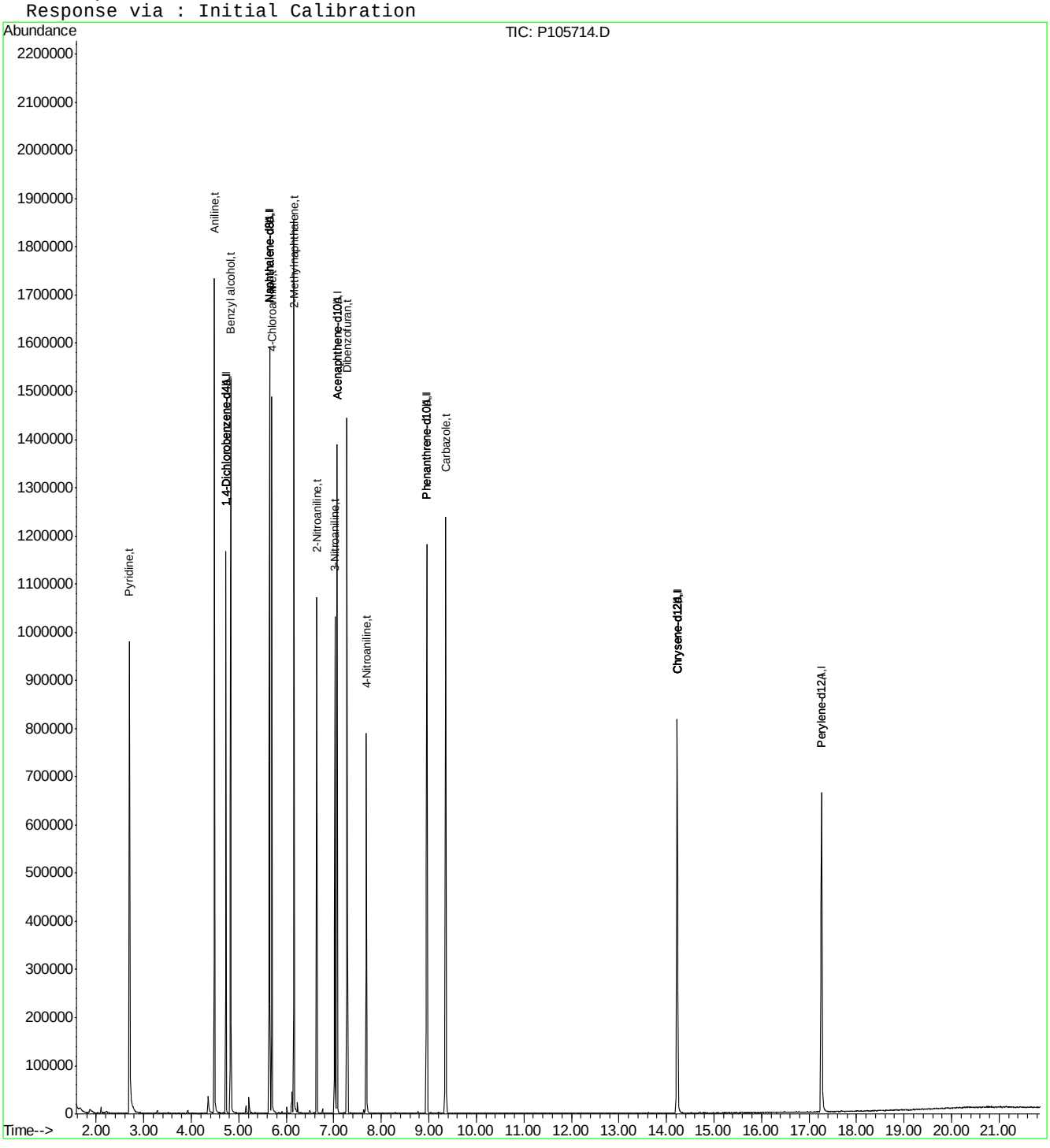
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4669\P105714.D Vial: 2
Acq On : 29 Jun 2016 11:15 am Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4669 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 11:39 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4669\P105715.D Vial: 3
Acq On : 29 Jun 2016 11:50 am Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4669 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 12:12:15 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.73	152	164832	40.00	ppm	0.00
24) Naphthalene-d8	5.65	136	667283	40.00	ppm	0.00
47) Acenaphthene-d10	7.07	164	312646	40.00	ppm	0.00
69) Phenanthrene-d10	8.96	188	473381	40.00	ppm	0.00
83) Chrysene-d12	14.22	240	385489	40.00	ppm	0.00
91) Perylene-d12	17.26	264	297555	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.73	152	164832	40.00	ppm	0.00
111) Naphthalene-d8A	5.65	136	667283	40.00	ppm	0.00
120) Acenaphthene-d10A	7.07	164	312646	40.00	ppm	0.00
131) Phenanthrene-d10A	8.96	188	473381	40.00	ppm	0.00
146) Chrysene-d12A	14.22	240	385489	40.00	ppm	0.00
154) Perylene-d12A	17.26	264	297555	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.73	152	164832	40.00	ppm	0.00
160) Phenanthrene-d10b	8.96	188	473381	40.00	ppm	0.00
162) Chrysene-d12b	14.22	240	385489	40.00	ppm	0.00
164) Naphthalene-d8b	5.65	136	667283	40.00	ppm	0.00
166) Acenaphthene-d10b	7.07	164	312646	40.00	ppm	0.00
168) Naphthalene-d8c	5.65	136	667283	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.73	152	164832	40.00	ppm	-0.01
175) Chrysene-d12c	14.22	240	385433	40.00	ppm	0.00
177) Chrysene-d12d	14.22	240	385433	40.00	ppm	0.00
179) Naphthalene-d8d	5.65	136	667283	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	0.00	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.00	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.00	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.00	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.00	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.31	88	175724	49.66	ppm	95
6) Indene	4.91	116	489070	52.24	ppm	98
7) Cumene	4.14	105	629038	45.58	ppm	96
13) Decane	4.60	43	282394	46.15	ppm	92
18) Acetophenone	5.02	105	377046	51.32	ppm	98
27) Quinoline	5.90	129	514931	41.25	ppm	96
40) 2,3-Dichloroaniline	6.38	161	218584	39.87	ppm	96
41) Caprolactam	5.93	55	137590	42.67	ppm	89
45) 1-Methylnaphthalene	6.24	142	455370	41.28	ppm	98
46) Dimethylnaphthalene	6.67	156	383895	41.49	ppm	99
53) Biphenyl	6.54	154	522227	52.24	ppm	98
82) Octadecane	8.85	57	392502	61.19	ppm	92

(#) = qualifier out of range (m) = manual integration
P105715.D MP4667.M Wed Jun 29 15:52:58 2016

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4669\P105715.D Vial: 3
Acq On : 29 Jun 2016 11:50 am Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4669 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 12:12:15 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99) 7,12-Dimethylbenz(a)anthra	16.53	256	198839	46.72	ppm	92

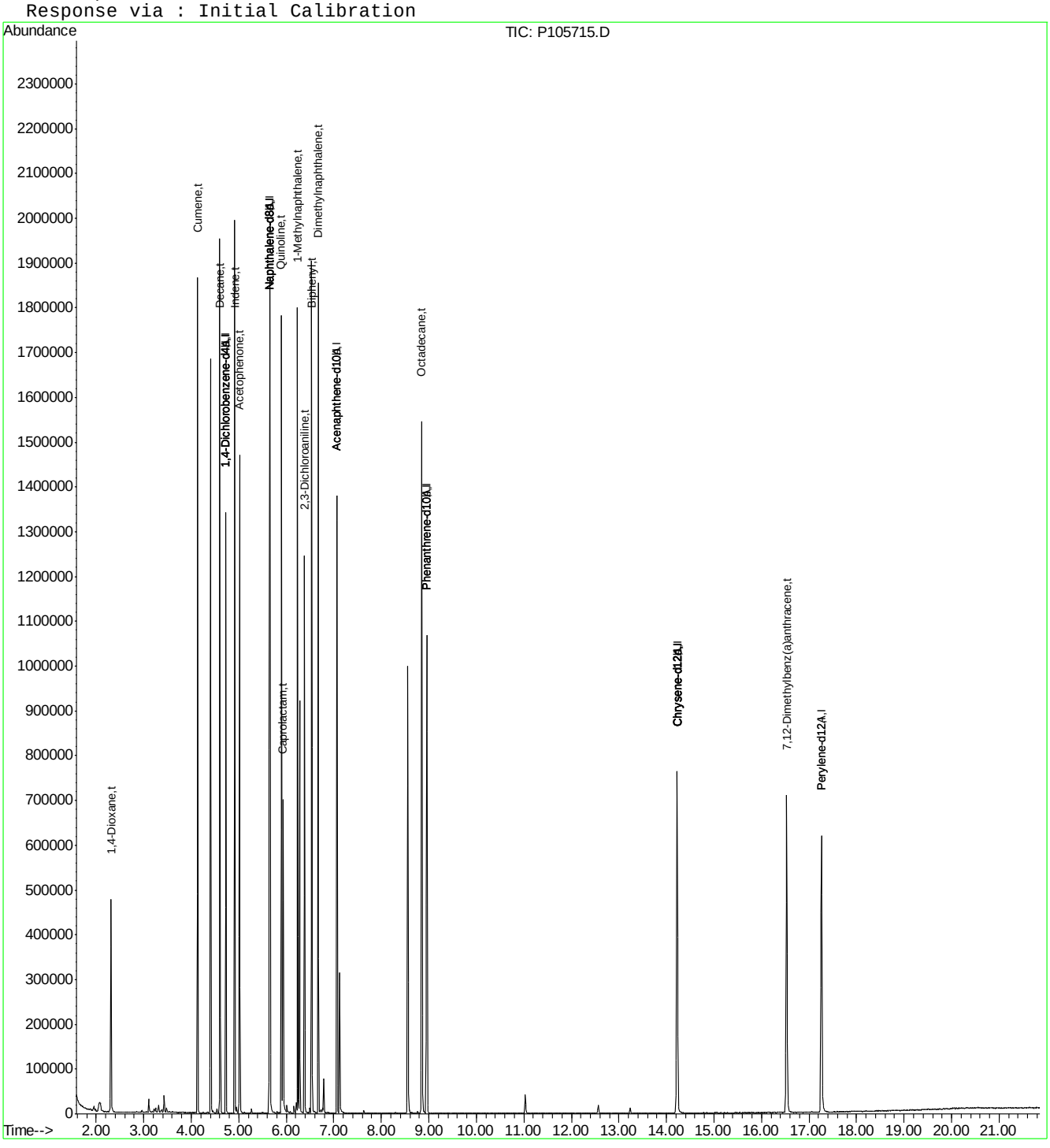
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4669\P105715.D Vial: 3
Acq On : 29 Jun 2016 11:50 am Operator: ashleyd
Sample : icv4667-50 Inst : MSP
Misc : op93881,ep4669 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 29 15:51 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Wed Jun 29 10:44:21 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4679\P105950.D Vial: 2
Acq On : 8 Jul 2016 11:18 am Operator: brittanp
Sample : cc4667-25 Inst : MSP
Misc : op93881,ep4679 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 08 11:40:25 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jul 07 15:46:22 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.64	152	181005	40.00	ppm	-0.02
24) Naphthalene-d8	5.56	136	618288	40.00	ppm	-0.02
47) Acenaphthene-d10	6.96	164	414163	40.00	ppm	-0.02
69) Phenanthrene-d10	8.82	188	766457	40.00	ppm	-0.02
83) Chrysene-d12	14.06	240	693914	40.00	ppm	-0.03
91) Perylene-d12	17.10	264	541048	40.00	ppm	-0.03
101) 1,4-Dichlorobenzene-d4b	4.64	152	181005	40.00	ppm	-0.02
103) Phenanthrene-d10b	8.82	188	766457	40.00	ppm	-0.02
105) Chrysene-d12b	14.06	240	693914	40.00	ppm	-0.03
107) Naphthalene-d8b	5.56	136	618288	40.00	ppm	-0.02
109) Acenaphthene-d10b	6.96	164	414163	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.65	112	156593	22.97	ppm	-0.04
Spiked Amount 50.000			Recovery = 45.94%			
8) Phenol-d5	4.38	99	207533	22.93	ppm	-0.03
Spiked Amount 50.000			Recovery = 45.86%			
25) Nitrobenzene-d5	5.04	82	180935	30.33	ppm	-0.03
Spiked Amount 50.000			Recovery = 60.66%			
51) 2-Fluorobiphenyl	6.36	172	285817	27.15	ppm	-0.01
Spiked Amount 50.000			Recovery = 54.30%			
73) 2,4,6-Tribromophenol	7.84	330	40379	41.06	ppm	-0.02
Spiked Amount 50.000			Recovery = 82.12%			
85) Terphenyl-d14	11.85	244	337195	26.78	ppm	0.00
Spiked Amount 50.000			Recovery = 53.56%			

Target Compounds							Qvalue
2) 1,4-Dioxane	2.19	88	80641	20.76	ppm		92
3) Pyridine	2.51	79	187588	20.87	ppm		84
4) N-Nitrosodimethylamine	2.48	42	104925	38.48	ppm		83
6) Indene	4.83	116	245370	23.87	ppm		95
7) Cumene	4.04	105	391088	25.80	ppm		98
9) Phenol	4.39	94	235581	22.25	ppm		96
10) Aniline	4.40	93	238666	20.38	ppm		96
11) bis(2-Chloroethyl)ether	4.45	93	153803	21.85	ppm		99
12) 2-Chlorophenol	4.49	128	151429	22.91	ppm		97
13) Decane	4.52	43	197036	29.33	ppm		96
14) 1,3-Dichlorobenzene	4.60	146	160589	24.81	ppm		97
15) 1,4-Dichlorobenzene	4.65	146	150376	24.83	ppm		99
16) Benzyl alcohol	4.74	108	100341	23.35	ppm		75
17) 1,2-Dichlorobenzene	4.76	146	142915	24.83	ppm		99
18) Acetophenone	4.93	105	198608	24.62	ppm		79
19) 2-Methylphenol	4.83	108	125594	21.23	ppm		96
20) 2,2'-oxybis(1-Chloropropan	4.84	121	45241	23.06	ppm	#	76
21) 3&4-Methylphenol	4.94	108	137108	22.54	ppm		99
22) n-Nitroso-di-n-propylamine	4.93	70	109041	25.86	ppm		92
23) Hexachloroethane	5.01	201	60508	33.53	ppm	#	81
26) Nitrobenzene	5.06	77	184378	30.34	ppm		98
27) Quinoline	5.82	129	294178	25.44	ppm		96
28) Isophorone	5.23	82	313980	27.33	ppm		95

(#) = qualifier out of range (m) = manual integration
P105950.D MP4667.M Fri Jul 08 14:51:45 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4679\P105950.D Vial: 2
Acq On : 8 Jul 2016 11:18 am Operator: brittanp
Sample : cc4667-25 Inst : MSP
Misc : op93881,ep4679 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 08 11:40:25 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jul 07 15:46:22 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29) 2-Nitrophenol	5.29	139	82847	28.18	ppm		81
30) 2,4-Dimethylphenol	5.32	107	155634	28.09	ppm		90
31) Benzoic acid	5.40	105	122775	28.70	ppm		88
32) bis(2-Chloroethoxy)methane	5.38	93	180423	24.17	ppm		99
33) 2,4-Dichlorophenol	5.46	162	126110	28.95	ppm		97
34) 2,6-Dichlorophenol	5.62	162	116124	28.60	ppm		97
35) 1,3,5-Trichlorobenzene	5.29	180	135508	29.86	ppm		98
36) 1,2,4-Trichlorobenzene	5.52	180	131479	29.86	ppm		98
37) 1,2,3-Trichlorobenzene	5.68	180	123777	29.51	ppm		97
38) Naphthalene	5.58	128	383827	26.24	ppm		99
39) 4-Chloroaniline	5.61	127	170135	25.62	ppm		90
40) 2,3-Dichloroaniline	6.29	161	139372	27.44	ppm		98
41) Caprolactam	5.86	55	97360	32.59	ppm		92
42) Hexachlorobutadiene	5.66	225	84079	41.13	ppm		97
43) 4-Chloro-3-methylphenol	5.96	107	145642	29.96	ppm	#	60
44) 2-Methylnaphthalene	6.07	141	217448	26.50	ppm		93
45) 1-Methylnaphthalene	6.15	142	262252	25.66	ppm		91
46) Dimethylnaphthalene	6.57	156	239808	27.97	ppm		96
48) Hexachlorocyclopentadiene	6.19	237	176068	84.90	ppm		97
49) 2,4,6-Trichlorophenol	6.29	196	92568	30.39	ppm		96
50) 2,4,5-Trichlorophenol	6.32	196	91838	29.24	ppm		96
52) 2-Chloronaphthalene	6.46	162	235676	24.73	ppm		93
53) Biphenyl	6.44	154	329571	24.89	ppm		100
54) 2-Nitroaniline	6.54	65	112139	33.12	ppm		87
55) Dimethylphthalate	6.70	163	280147	27.45	ppm		98
56) Acenaphthylene	6.83	152	422677	25.99	ppm		98
57) 2,6-Dinitrotoluene	6.76	165	64403	29.32	ppm		80
58) 3-Nitroaniline	6.92	138	81423	24.83	ppm		93
59) Acenaphthene	6.99	153	244951	25.46	ppm		98
60) 2,4-Dinitrophenol	7.02	184	75295	58.72	ppm	#	50
61) 4-Nitrophenol	7.09	109	62667	59.40	ppm	#	50
62) Dibenzofuran	7.17	168	359319	26.86	ppm		92
63) 2,4-Dinitrotoluene	7.15	165	91204	31.02	ppm		97
64) 2,3,4,6-Tetrachlorophenol	7.30	232	86167	36.62	ppm		92
65) Diethylphthalate	7.41	149	314765	29.88	ppm		99
66) Fluorene	7.55	166	298942	27.54	ppm		99
67) 4-Chlorophenyl-phenylether	7.55	204	149573	31.94	ppm		96
68) 4-Nitroaniline	7.57	138	81220	25.78	ppm	#	60
70) 4,6-Dinitro-2-methylphenol	7.61	198	54840	27.28	ppm		86
71) n-Nitrosodiphenylamine	7.69	169	207001	24.67	ppm		96
72) 1,2-Diphenylhydrazine	7.74	77	366728	24.73	ppm		92
74) 4-Bromophenyl-phenylether	8.17	248	93948	32.88	ppm		94
75) Hexachlorobenzene	8.24	284	94625	34.78	ppm		96
76) Pentachlorophenol	8.54	266	106329	63.88	ppm		96
77) Phenanthrene	8.86	178	400709	24.78	ppm		99
78) Anthracene	8.94	178	414001	25.35	ppm		98
79) Carbazole	9.21	167	431282	24.50	ppm		98
80) Di-n-butylphthalate	9.91	149	550091	26.90	ppm		98
81) Fluoranthene	10.98	202	549652	30.71	ppm		81

(#) = qualifier out of range (m) = manual integration
P105950.D MP4667.M Fri Jul 08 14:51:45 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4679\P105950.D Vial: 2
Acq On : 8 Jul 2016 11:18 am Operator: brittanp
Sample : cc4667-25 Inst : MSP
Misc : op93881,ep4679 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 08 11:40:25 2016 Quant Results File: MP4667.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jul 07 15:46:22 2016
Response via : Initial Calibration
DataAcq Meth : MP4667

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	Octadecane	8.71	57	272301	26.22 ppm	95
84)	Pyrene	11.41	202	554620	23.77 ppm	80
86)	Butylbenzylphthalate	13.02	149	257909	23.59 ppm	95
87)	Benzo[a]anthracene	14.04	228	476072	25.31 ppm	98
88)	3,3'-Dichlorobenzidine	14.09	252	167710	28.36 ppm	94
89)	Chrysene	14.11	228	425941	24.42 ppm	98
90)	bis(2-Ethylhexyl)phthalate	14.43	149	313634	22.54 ppm	96
92)	Di-n-octylphthalate	15.88	149	538604	23.90 ppm	96
93)	Benzo[b]fluoranthene	16.34	252	451320	26.94 ppm	86
94)	Benzo[k]fluoranthene	16.40	252	400781	25.27 ppm	86
95)	Benzo[a]pyrene	16.97	252	401254	26.40 ppm	85
96)	Indeno[1,2,3-cd]pyrene	19.03	276	316188	25.90 ppm	64
97)	Dibenz(a,h)acridine	18.67	279	317249	28.34 ppm	99
98)	Dibenz[a,h]anthracene	19.09	278	302473	24.32 ppm	81
99)	7,12-Dimethylbenz(a)anthra	16.36	256	192419	24.86 ppm	93
100)	Benzo[g,h,i]perylene	19.45	276	332179	24.85 ppm	73

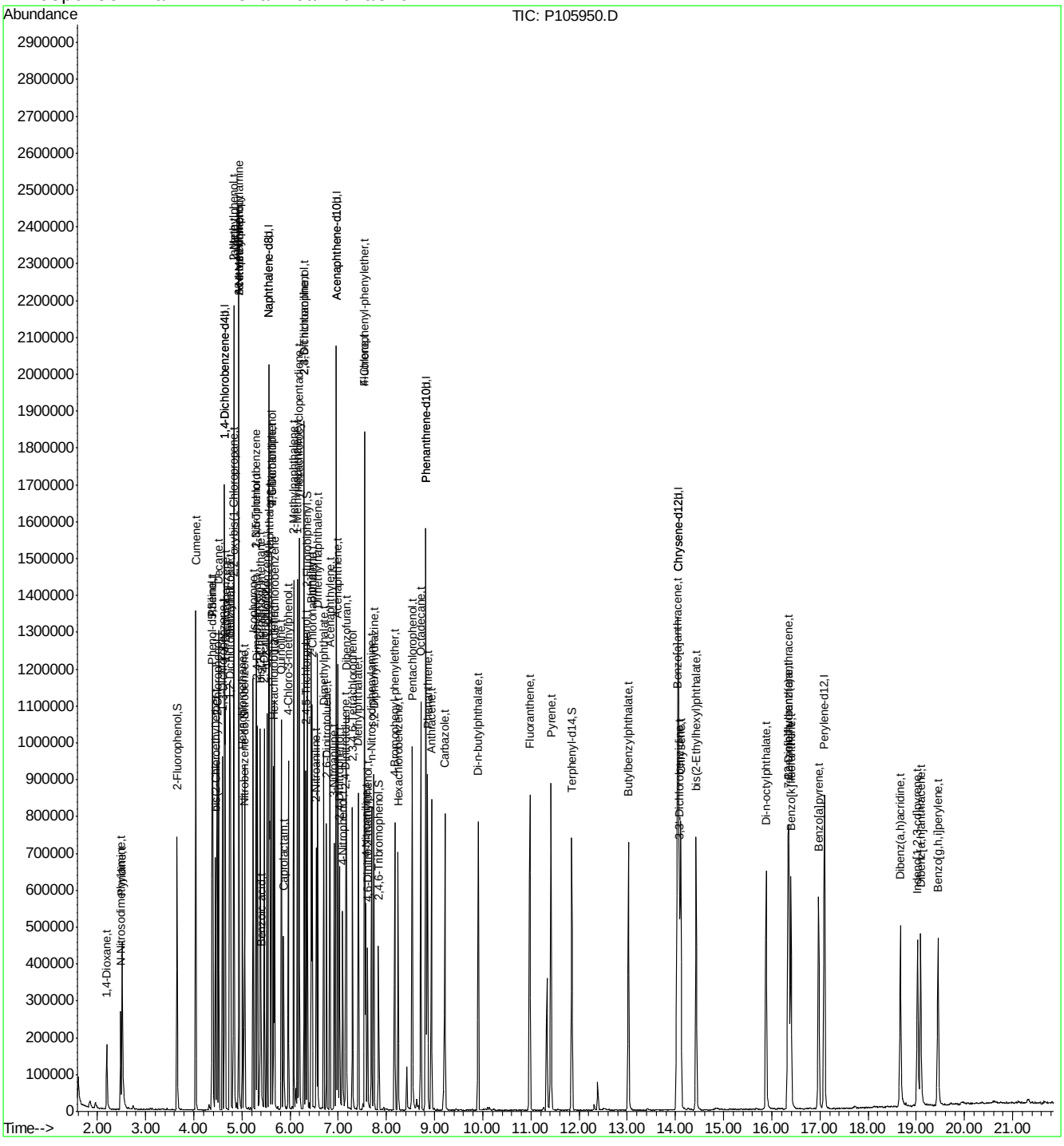
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4679\P105950.D Vial: 2
Acq On : 8 Jul 2016 11:18 am Operator: brittanp
Sample : cc4667-25 Inst : MSP
Misc : op93881,ep4679 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 8 14:51 2016 Quant Results File: MP4667.RES

Method : C:\MSDCHEM\1\METHODS\MP4667.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 08 12:04:46 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/17/16 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:53:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.648	152	151199	40.00	ppm	0.00
24) Naphthalene-d8	5.572	136	567296	40.00	ppm	0.00
47) Acenaphthene-d10	6.961	164	349025	40.00	ppm	0.00
69) Phenanthrene-d10	8.805	188	592475	40.00	ppm	0.00
83) Chrysene-d12	14.029	240	531836	40.00	ppm	0.00
91) Perylene-d12	17.053	264	489491	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.648	152	151199	40.00	ppm	0.00
103) Phenanthrene-d10a	8.805	188	592475	40.00	ppm	0.00
107) Chrysene-d12a	14.029	240	531836	40.00	ppm	0.00
109) Acenaphthene-d10a	6.961	164	349025	40.00	ppm	0.00
111) Naphthalene-d8a	5.572	136	567296	40.00	ppm	0.00
113) Chrysene-d12b	14.029	240	531836	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.660	112	511563	98.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	197.18%	
8) Phenol-d5	4.386	99	633450	96.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	193.36%	
25) Nitrobenzene-d5	5.054	82	532502	101.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	202.78%	
51) 2-Fluorobiphenyl	6.363	172	952494	85.82	ppm	0.00
Spiked Amount 50.000			Recovery	=	171.64%	
73) 2,4,6-Tribromophenol	7.838	330	131642	102.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	204.24%	
85) Terphenyl-d14	11.823	244	1086800	95.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	190.26%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	218568	96.22	ppm	97
3) Pyridine	2.490	79	580351	93.20	ppm	98
4) N-Nitrosodimethylamine	2.463	74	339657	99.22	ppm	90
6) Indene	4.835	116	766731	88.05	ppm	96
7) Cumene	4.055	105	1216004	93.41	ppm	99
9) Phenol	4.397	94	676304	94.16	ppm	68
10) Aniline	4.403	93	667425	84.94	ppm	97
11) bis(2-Chloroethyl)ether	4.456	93	438974	93.27	ppm	98
12) 2-Chlorophenol	4.499	128	495562	89.31	ppm	98
13) Decane	4.536	43	413376	87.84	ppm	97
14) 1,3-Dichlorobenzene	4.606	146	544820	89.91	ppm	97
15) 1,4-Dichlorobenzene	4.659	146	532756	87.98	ppm	97
16) Benzyl alcohol	4.755	108	316484	94.74	ppm	90
17) 1,2-Dichlorobenzene	4.776	146	477241	86.79	ppm	99
18) Acetophenone	4.947	105	615062	86.18	ppm	95
19) 2-Methylphenol	4.835	108	404102	87.99	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.851	121	134717	93.99	ppm #	63

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:53:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.947	108	428328	88.78	ppm	97
22) n-Nitroso-di-n-propyla...	4.947	70	333270	85.90	ppm	94
23) Hexachloroethane	5.022	201	186784	90.75	ppm	98
26) Nitrobenzene	5.065	77	517146	95.81	ppm	99
27) Quinoline	5.834	129	1029371	94.57	ppm	99
28) Isophorone	5.241	82	944984	92.14	ppm	99
29) 2-Nitrophenol	5.295	139	273469	108.73	ppm	85
30) 2,4-Dimethylphenol	5.327	107	470951	92.26	ppm	96
31) Benzoic Acid	5.439	105	350437	147.21	ppm	95
32) bis(2-Chloroethoxy)met...	5.391	93	536399	93.88	ppm	99
33) 2,4-Dichlorophenol	5.471	162	401930	93.97	ppm	99
34) 2,6-Dichlorophenol	5.631	162	371393	91.08	ppm	97
35) 1,3,5-Trichlorobenzene	5.305	180	435039	89.37	ppm	98
36) 1,2,4-Trichlorobenzene	5.530	180	430232	91.46	ppm	99
37) 1,2,3-Trichlorobenzene	5.690	180	406107	89.36	ppm	97
38) Naphthalene	5.588	128	1347643	89.96	ppm	99
39) 4-Chloroaniline	5.626	127	566536	89.44	ppm	95
40) 2,3-Dichloroaniline	6.299	161	474180	89.60	ppm	97
41) Caprolactam	5.898	55	207686m	94.77	ppm	
42) Hexachlorobutadiene	5.679	225	228898	89.31	ppm	99
43) 4-Chloro-3-methylphenol	5.973	107	442272	96.78	ppm	94
44) 2-Methylnaphthalene	6.085	141	784642	90.38	ppm	97
45) 1-Methylnaphthalene	6.160	141	805506	89.46	ppm	96
46) Dimethylnaphthalene	6.582	156	835894	90.53	ppm	98
48) Hexachlorocyclopentadiene	6.208	237	529169	183.13	ppm	99
49) 2,4,6-Trichlorophenol	6.304	196	270768	89.54	ppm	99
50) 2,4,5-Trichlorophenol	6.336	196	310895	90.11	ppm	100
52) 2-Chloronaphthalene	6.470	162	856144	85.37	ppm	97
53) Biphenyl	6.449	154	1141594	87.68	ppm	100
54) 2-Nitroaniline	6.550	65	289987	109.62	ppm	99
55) Dimethylphthalate	6.705	163	1050590	90.01	ppm	99
56) Acenaphthylene	6.833	152	1465120	88.48	ppm	100
57) 2,6-Dinitrotoluene	6.764	165	237193	116.25	ppm	99
58) 3-Nitroaniline	6.919	138	289280	114.61	ppm	97
59) Acenaphthene	6.999	153	873137	86.55	ppm	98
60) 2,4-Dinitrophenol	7.026	184	245567	329.34	ppm	95
61) 4-Nitrophenol	7.084	109	158245	112.41	ppm	86
62) Dibenzofuran	7.175	168	1219933	86.22	ppm	96
63) 2,4-Dinitrotoluene	7.154	165	332015	127.85	ppm	90
64) 2,3,4,6-Tetrachlorophenol	7.303	232	267873	96.55	ppm	96
65) Diethylphthalate	7.416	149	1056113	88.06	ppm	99
66) Fluorene	7.549	166	968022	85.23	ppm	98
67) 4-Chlorophenyl-phenyle...	7.544	204	449612	84.40	ppm	98
68) 4-Nitroaniline	7.581	138	289617	107.99	ppm	90
70) 4,6-Dinitro-2-methylph...	7.613	198	195274	153.72	ppm	96
71) n-Nitrosodiphenylamine	7.688	169	731829	90.71	ppm	98
72) 1,2-Diphenylhydrazine	7.736	77	1066412	91.33	ppm	98
74) 4-Bromophenyl-phenylether	8.163	248	294951	93.25	ppm	98
75) Hexachlorobenzene	8.254	284	302142	87.76	ppm	92
76) Pentachlorophenol	8.537	266	428966	221.23	ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:53:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration

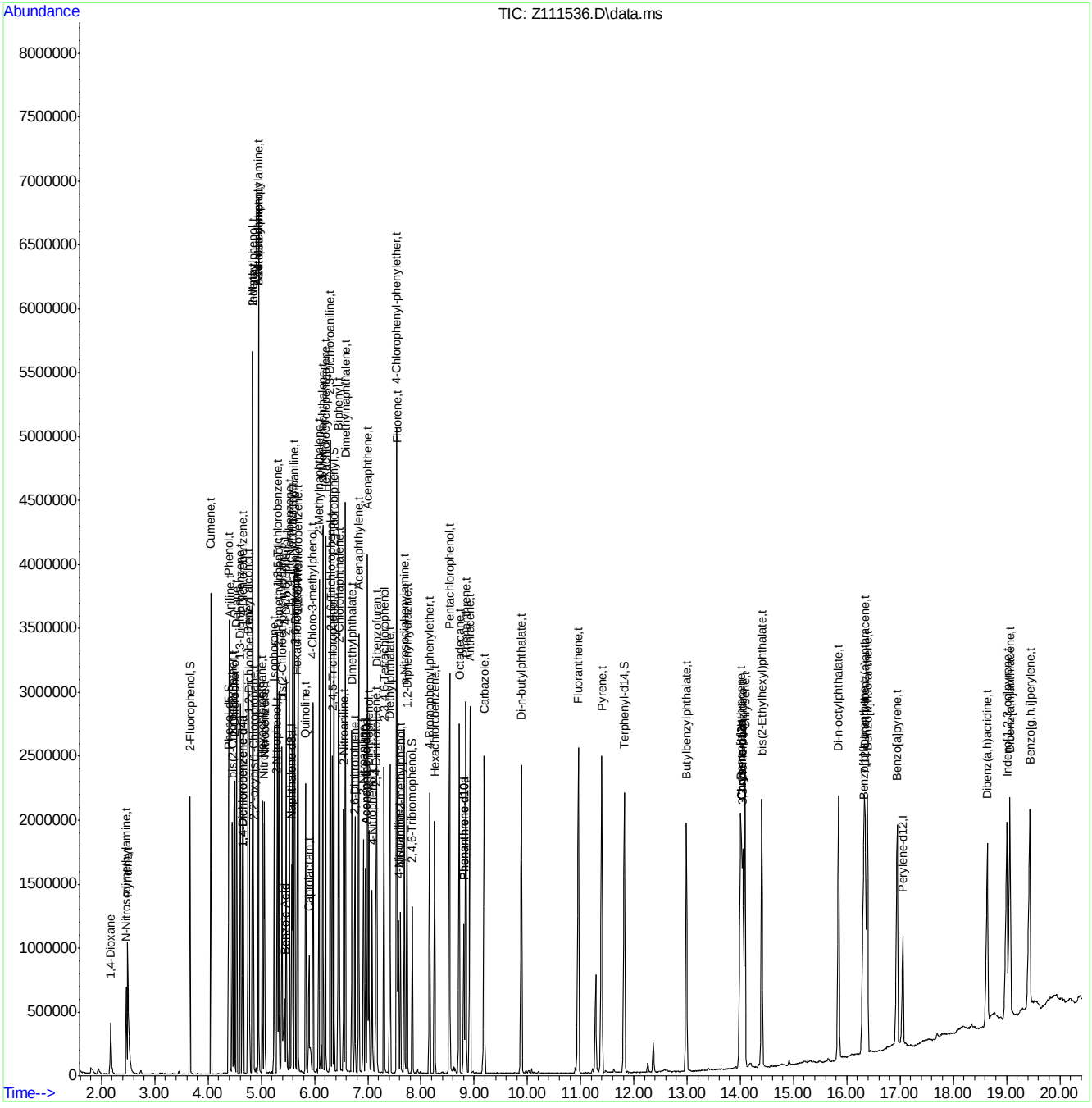
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.842	178	1464546	89.13	ppm	99
78)	Anthracene	8.922	178	1493732	89.60	ppm	99
79)	Carbazole	9.195	167	1454603	90.35	ppm	99
80)	Di-n-butylphthalate	9.889	149	1883022	95.33	ppm	99
81)	Fluoranthene	10.957	202	1663198	93.01	ppm	98
82)	Octadecane	8.719	57	595548	90.67	ppm	98
84)	Pyrene	11.396	202	1709755	94.91	ppm	99
86)	Butylbenzylphthalate	12.988	149	814773	100.14	ppm	93
87)	Benzo[a]anthracene	14.003	228	1530626	92.47	ppm	99
88)	3,3'-Dichlorobenzidine	14.051	252	564745	95.93	ppm	98
89)	Chrysene	14.093	228	1441674	93.23	ppm	98
90)	bis(2-Ethylhexyl)phtha...	14.403	149	1092106	97.96	ppm	96
92)	Di-n-octylphthalate	15.846	149	1856654	93.60	ppm	99
93)	Benzo[b]fluoranthene	16.316	252	1506024	92.53	ppm	97
94)	Benzo[k]fluoranthene	16.391	252	1318322	85.44	ppm	98
95)	Benzo[a]pyrene	16.951	252	1293504	89.34	ppm	99
96)	Indeno[1,2,3-cd]pyrene	19.008	276	1189083	91.98	ppm	94
97)	Dibenz(a,h)acridine	18.645	279	1105235	91.92	ppm	99
98)	Dibenz[a,h]anthracene	19.067	278	1261325	94.04	ppm	94
99)	7,12-Dimethylbenz(a)an...	16.348	256	670504	94.80	ppm	97
100)	Benzo[g,h,i]perylene	19.441	276	1228504	91.06	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:53:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 07:53:18 2016 RTE Page: 4

Manual Integration Approval Summary

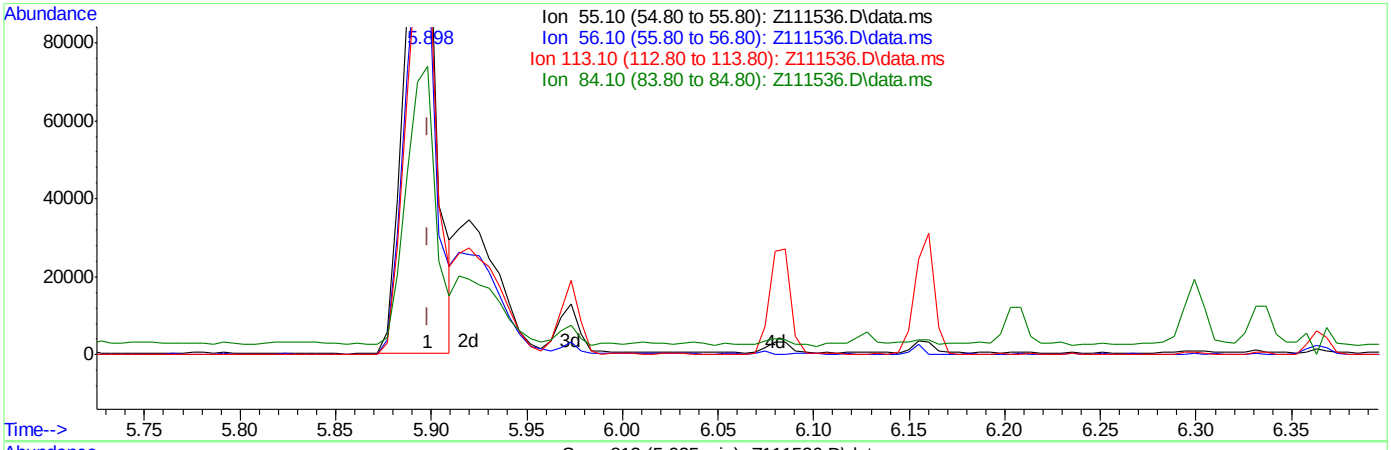
Sample Number:	EZ5571-IC5571	**Method:**	SW846 8270D
Lab FileID:	Z111536.D	**Analyst approved:**	06/15/16 08:31 Arielle Cocozza
Injection Time:	06/14/16 17:00	**Supervisor approved:**	06/17/16 15:33 Nina Pandya

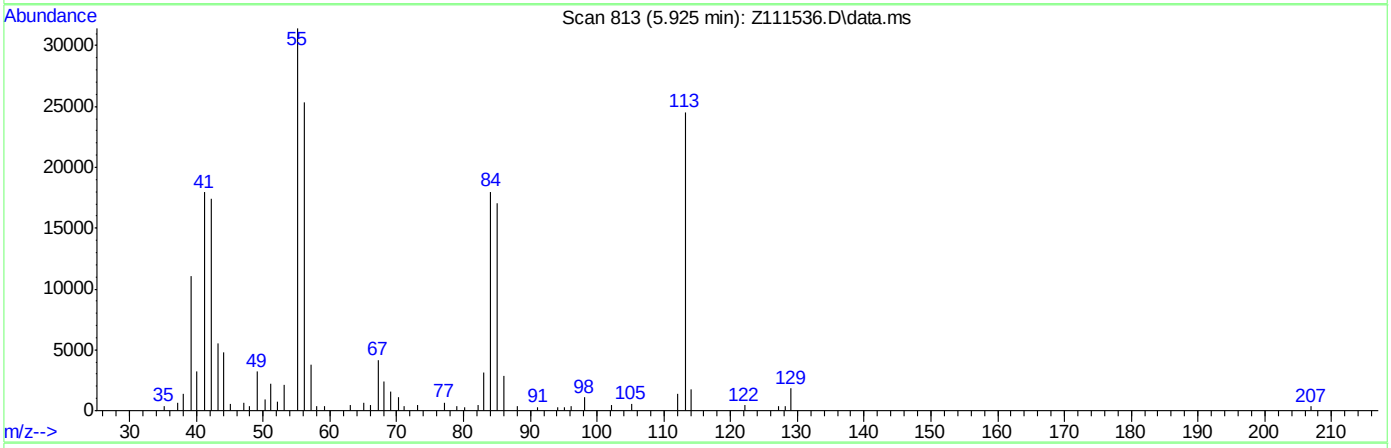
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.90	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:52:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration





TIC: Z111536.D\data.ms

(41) Caprolactam (t)

5.898min (0.000) 69.87ppm

response 153122

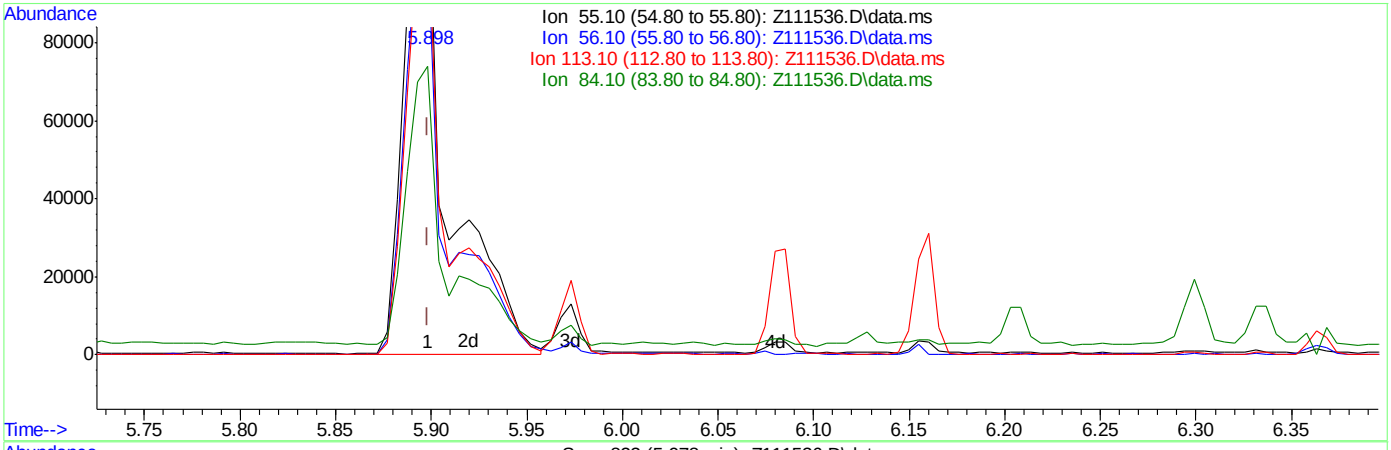
Ion	Exp%	Act%
55.10	100	100
56.10	83.10	79.79
113.10	83.80	86.13
84.10	52.40	52.06

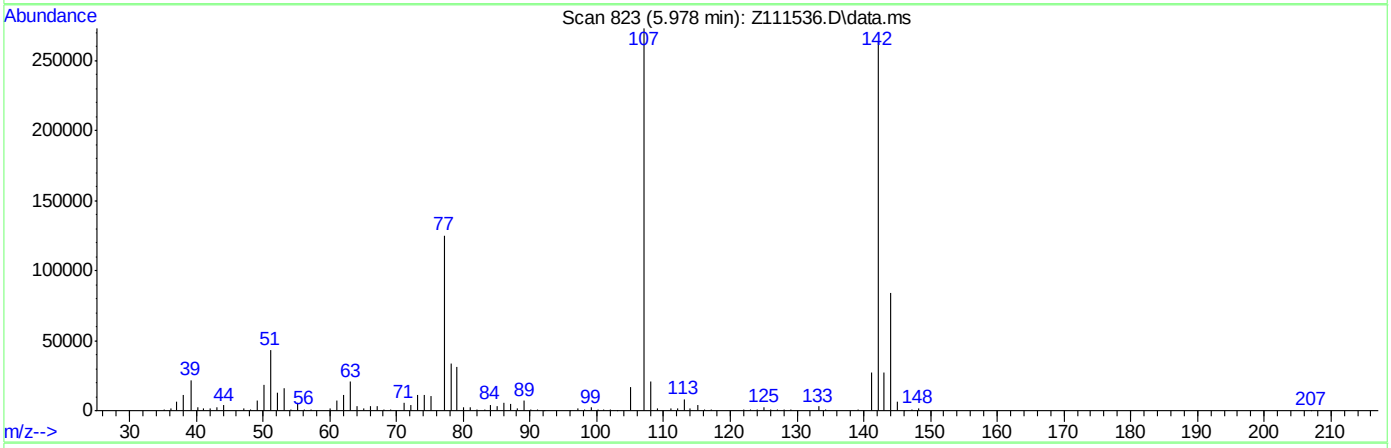
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111536.D
Acq On : 14 Jun 2016 5:00 pm
Operator : seanb1
Sample : ic5571-100
Misc : op94271,ez5571
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 07:52:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:52:28 2016
Response via : Initial Calibration





TIC: Z111536.D\data.ms

(41) Caprolactam (t)

5.898min (0.000) 94.77ppm m

response 207686

Ion	Exp%	Act%
55.10	100	100
56.10	83.10	79.43
113.10	83.80	84.96
84.10	52.40	52.85

SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/17/16 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:02:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.648	152	156968	40.00	ppm	0.00
24) Naphthalene-d8	5.567	136	596230	40.00	ppm	0.00
47) Acenaphthene-d10	6.961	164	357363	40.00	ppm	0.00
69) Phenanthrene-d10	8.799	188	612469	40.00	ppm	0.00
83) Chrysene-d12	14.018	240	559419	40.00	ppm	0.00
91) Perylene-d12	17.047	264	521840	40.00	ppm	0.01
101) 1,4-Dichlorobenzene-d4a	4.648	152	156968	40.00	ppm	0.00
103) Phenanthrene-d10a	8.799	188	612469	40.00	ppm	0.00
107) Chrysene-d12a	14.018	240	559419	40.00	ppm	0.00
109) Acenaphthene-d10a	6.961	164	357363	40.00	ppm	0.00
111) Naphthalene-d8a	5.567	136	596230	40.00	ppm	0.00
113) Chrysene-d12b	14.018	240	559419	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.660	112	426684	79.60	ppm	0.00
Spiked Amount 50.000			Recovery	=	159.20%	
8) Phenol-d5	4.386	99	522254	77.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	154.70%	
25) Nitrobenzene-d5	5.049	82	444316	80.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	160.08%	
51) 2-Fluorobiphenyl	6.363	172	804431	72.49	ppm	0.00
Spiked Amount 50.000			Recovery	=	144.98%	
73) 2,4,6-Tribromophenol	7.832	330	110080	80.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	161.86%	
85) Terphenyl-d14	11.817	244	931710	77.47	ppm	0.01
Spiked Amount 50.000			Recovery	=	154.94%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	183422	78.73	ppm	100
3) Pyridine	2.490	79	500638	79.36	ppm	97
4) N-Nitrosodimethylamine	2.458	74	278628	78.78	ppm	99
6) Indene	4.835	116	648858	73.14	ppm	99
7) Cumene	4.055	105	1021300	76.20	ppm	99
9) Phenol	4.397	94	581402	77.92	ppm	82
10) Aniline	4.402	93	573262	72.45	ppm	75
11) bis(2-Chloroethyl)ether	4.456	93	367914	76.23	ppm	95
12) 2-Chlorophenol	4.493	128	418199	74.17	ppm	97
13) Decane	4.536	43	351418	73.58	ppm	97
14) 1,3-Dichlorobenzene	4.605	146	457926	74.13	ppm	100
15) 1,4-Dichlorobenzene	4.659	146	448261	73.24	ppm	99
16) Benzyl alcohol	4.750	108	270218	78.26	ppm	96
17) 1,2-Dichlorobenzene	4.771	146	408077	73.11	ppm	98
18) Acetophenone	4.942	105	524106	72.31	ppm	98
19) 2-Methylphenol	4.835	108	346130	73.61	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.846	121	115504	77.55	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:02:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.947	108	371174	74.96	ppm	99
22) n-Nitroso-di-n-propyla...	4.947	70	278830	71.41	ppm	99
23) Hexachloroethane	5.017	201	155185	73.90	ppm	96
26) Nitrobenzene	5.065	77	434381	76.61	ppm	96
27) Quinoline	5.829	129	845454	75.18	ppm	100
28) Isophorone	5.241	82	801693	75.74	ppm	99
29) 2-Nitrophenol	5.295	139	229362	84.07	ppm	90
30) 2,4-Dimethylphenol	5.327	107	392804	75.08	ppm	97
31) Benzoic Acid	5.428	105	288097	97.47	ppm	98
32) bis(2-Chloroethoxy)met...	5.391	93	448431	75.64	ppm	99
33) 2,4-Dichlorophenol	5.471	162	342325	76.46	ppm	96
34) 2,6-Dichlorophenol	5.631	162	315435	74.48	ppm	97
35) 1,3,5-Trichlorobenzene	5.305	180	371057	73.39	ppm	96
36) 1,2,4-Trichlorobenzene	5.530	180	367761	75.26	ppm	97
37) 1,2,3-Trichlorobenzene	5.690	180	343405	73.41	ppm	99
38) Naphthalene	5.583	128	1131376	73.45	ppm	99
39) 4-Chloroaniline	5.620	127	483737	73.95	ppm	96
40) 2,3-Dichloroaniline	6.294	161	404972	74.21	ppm	100
41) Caprolactam	5.888	55	172885m	76.53	ppm	
42) Hexachlorobutadiene	5.674	225	196916	74.22	ppm	99
43) 4-Chloro-3-methylphenol	5.968	107	374435	77.83	ppm	93
44) 2-Methylnaphthalene	6.080	141	665506	73.78	ppm	99
45) 1-Methylnaphthalene	6.155	141	679022	73.03	ppm	97
46) Dimethylnaphthalene	6.582	156	714694	74.78	ppm	97
48) Hexachlorocyclopentadiene	6.208	237	447821	150.44	ppm	99
49) 2,4,6-Trichlorophenol	6.299	196	236776	76.31	ppm	98
50) 2,4,5-Trichlorophenol	6.331	196	257222	74.77	ppm	96
52) 2-Chloronaphthalene	6.464	162	723323	72.14	ppm	97
53) Biphenyl	6.443	154	955290	72.69	ppm	99
54) 2-Nitroaniline	6.545	65	239712	84.92	ppm	91
55) Dimethylphthalate	6.705	163	873882	74.43	ppm	100
56) Acenaphthylene	6.828	152	1237532	74.13	ppm	99
57) 2,6-Dinitrotoluene	6.758	165	198051	88.68	ppm	96
58) 3-Nitroaniline	6.919	138	236833	87.51	ppm	100
59) Acenaphthene	6.993	153	740660	73.20	ppm	99
60) 2,4-Dinitrophenol	7.020	184	197544	220.47	ppm	100
61) 4-Nitrophenol	7.079	109	132310	87.90	ppm	96
62) Dibenzofuran	7.170	168	1044259	73.50	ppm	99
63) 2,4-Dinitrotoluene	7.154	165	277863	94.60	ppm	95
64) 2,3,4,6-Tetrachlorophenol	7.298	232	226566	79.15	ppm	94
65) Diethylphthalate	7.415	149	891941	74.29	ppm	99
66) Fluorene	7.544	166	825082	72.51	ppm	99
67) 4-Chlorophenyl-phenyle...	7.538	204	382668	71.80	ppm	97
68) 4-Nitroaniline	7.570	138	242882	85.57	ppm	95
70) 4,6-Dinitro-2-methylph...	7.608	198	160151	106.97	ppm	99
71) n-Nitrosodiphenylamine	7.683	169	614776	74.94	ppm	99
72) 1,2-Diphenylhydrazine	7.731	77	907843	75.91	ppm	97
74) 4-Bromophenyl-phenylether	8.158	248	248599	76.47	ppm	97
75) Hexachlorobenzene	8.254	284	257004	74.10	ppm	97
76) Pentachlorophenol	8.532	266	365134	173.13	ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:02:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.836	178	1228127	73.73	ppm	99
78)	Anthracene	8.917	178	1261645	74.44	ppm	99
79)	Carbazole	9.189	167	1245760	75.90	ppm	99
80)	Di-n-butylphthalate	9.883	149	1591329	77.67	ppm	99
81)	Fluoranthene	10.952	202	1437543	77.72	ppm	99
82)	Octadecane	8.714	57	511528	76.03	ppm	98
84)	Pyrene	11.390	202	1467100	77.46	ppm	99
86)	Butylbenzylphthalate	12.982	149	701097	81.37	ppm	99
87)	Benzo[a]anthracene	13.997	228	1310881	76.52	ppm	100
88)	3,3'-Dichlorobenzidine	14.040	252	494457	79.98	ppm	99
89)	Chrysene	14.077	228	1247780	77.58	ppm	99
90)	bis(2-Ethylhexyl)phtha...	14.398	149	929390	79.26	ppm	99
92)	Di-n-octylphthalate	15.835	149	1581352	75.52	ppm	99
93)	Benzo[b]fluoranthene	16.305	252	1273290	75.22	ppm	98
94)	Benzo[k]fluoranthene	16.374	252	1177505	73.51	ppm	99
95)	Benzo[a]pyrene	16.941	252	1118242	74.14	ppm	99
96)	Indeno[1,2,3-cd]pyrene	18.997	276	1036914	76.77	ppm	99
97)	Dibenz(a,h)acridine	18.634	279	960168	76.32	ppm	98
98)	Dibenz[a,h]anthracene	19.056	278	1047015	75.13	ppm	99
99)	7,12-Dimethylbenz(a)an...	16.332	256	577696	77.49	ppm	99
100)	Benzo[g,h,i]perylene	19.430	276	1071167	76.46	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.67

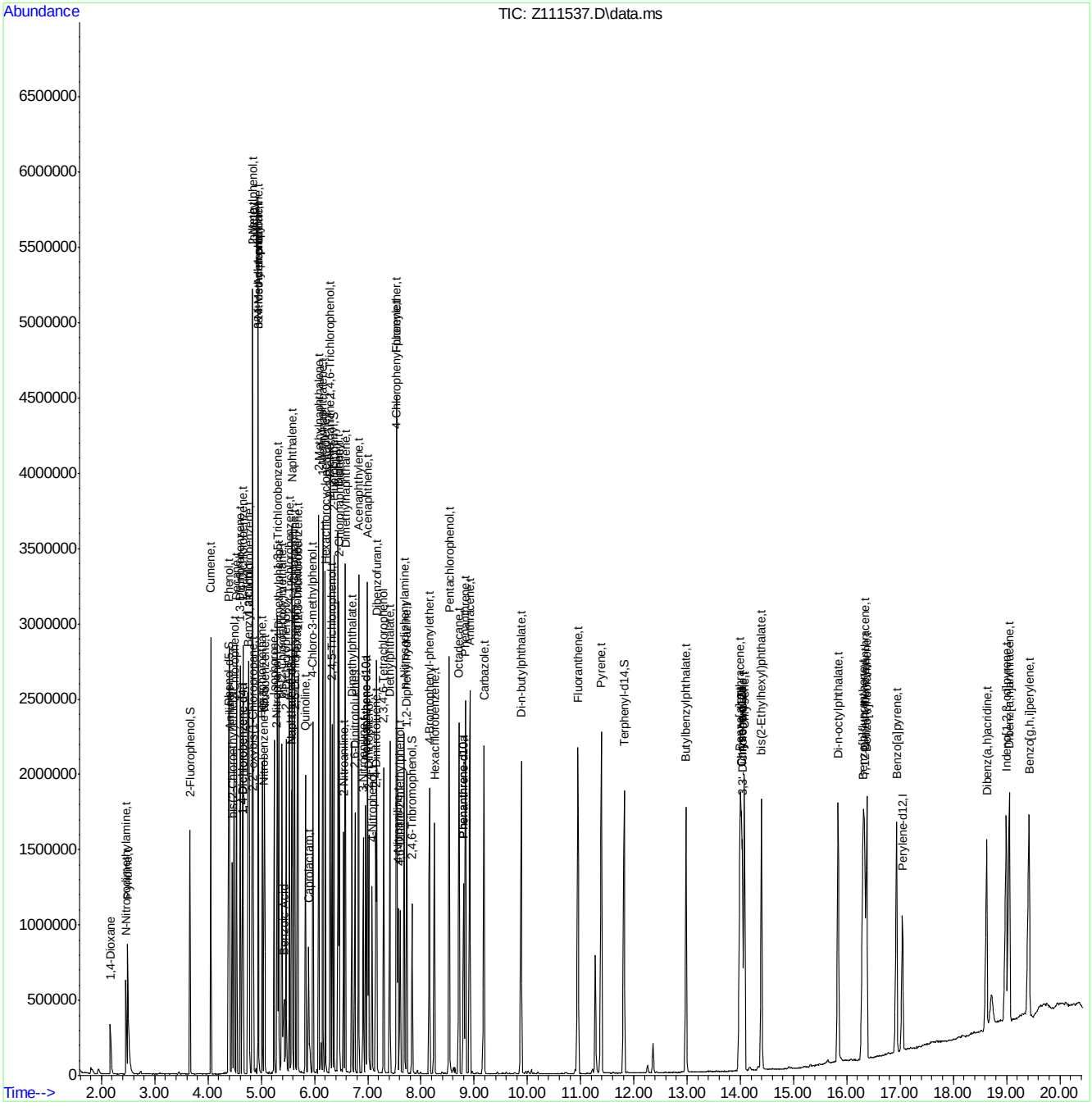
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:02:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integration Approval Summary

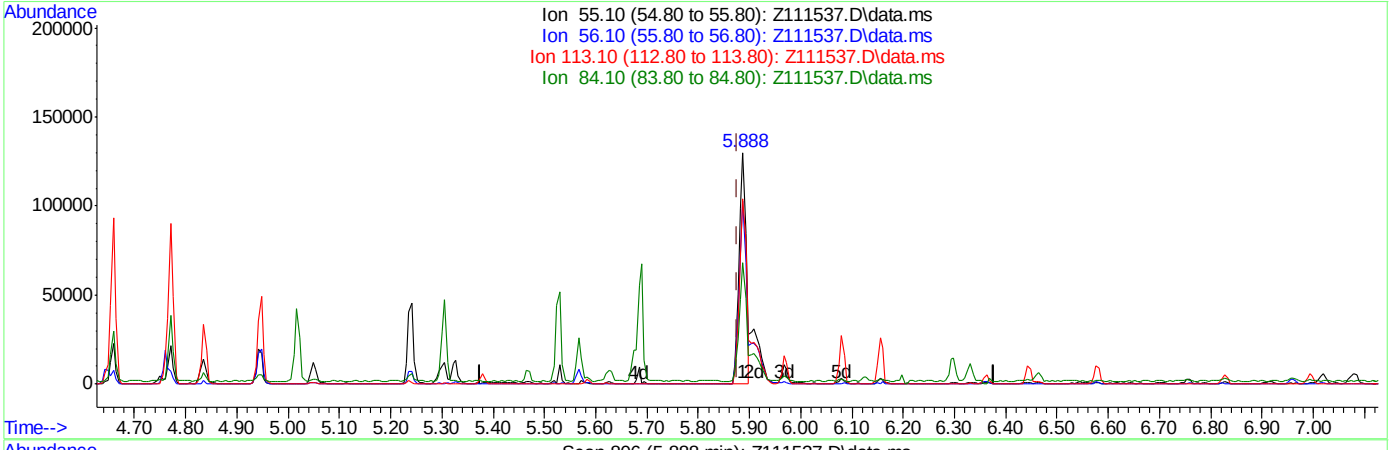
Sample Number:	EZ5571-IC5571	**Method:**	SW846 8270D
Lab FileID:	Z111537.D	**Analyst approved:**	06/15/16 08:31 Arielle Cocozza
Injection Time:	06/14/16 17:31	**Supervisor approved:**	06/17/16 15:33 Nina Pandya

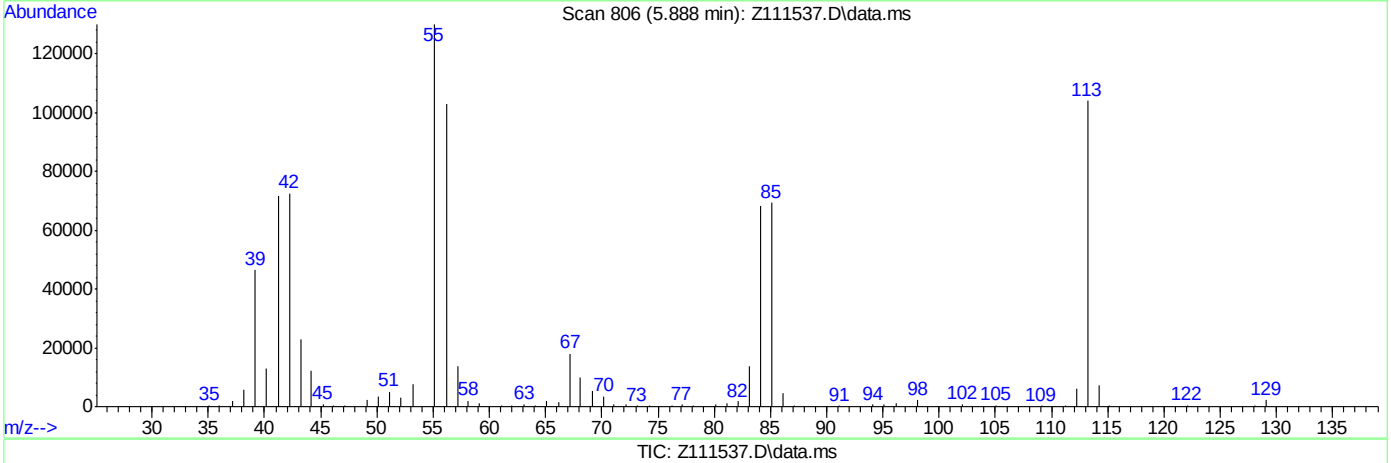
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		5.89	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:01:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration





TIC: Z111537.D\data.ms

(41) Caprolactam (t)

5.888min (+0.011) 56.92ppm

response 128591

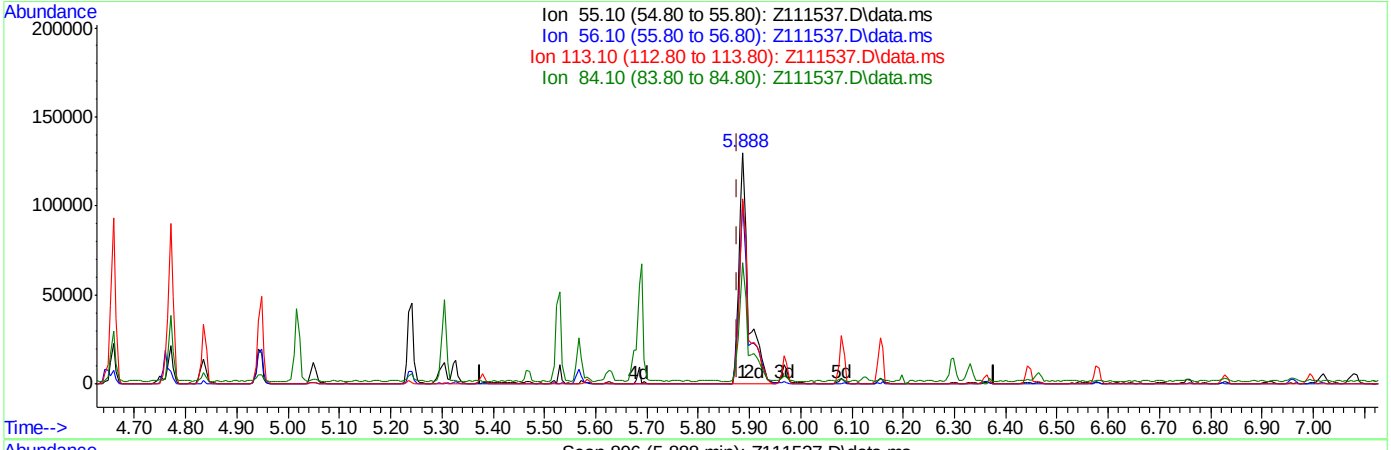
Ion	Exp%	Act%
55.10	100	100
56.10	78.70	79.50
113.10	82.70	79.18
84.10	49.80	51.51

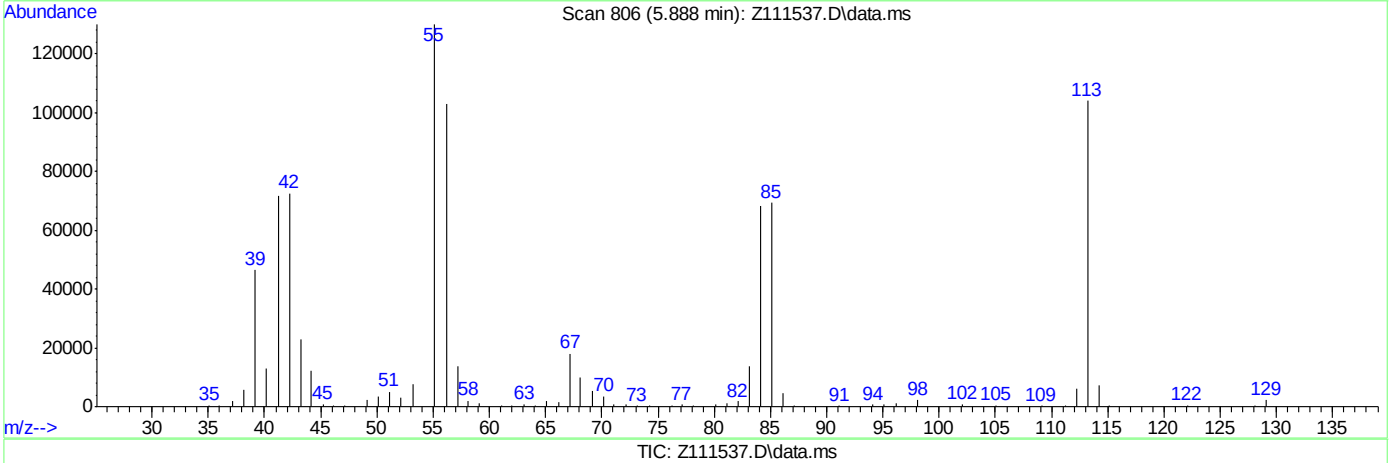
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111537.D
Acq On : 14 Jun 2016 5:31 pm
Operator : seanb1
Sample : ic5571-80
Misc : op94271,ez5571
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 08:01:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:56:18 2016
Response via : Initial Calibration





TIC: Z111537.D\data.ms

(41) Caprolactam (t)

5.888min (+0.011) 76.53ppm m

response 172885

Ion	Exp%	Act%
55.10	100	100
56.10	78.70	79.16
113.10	82.70	79.93
84.10	49.80	52.62

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111538.D
Acq On : 14 Jun 2016 6:00 pm
Operator : seanb1
Sample : icc5571-50
Misc : op94271,ez5571
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 07:55:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:53:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	164365	40.00	ppm	0.00
24) Naphthalene-d8	5.567	136	618907	40.00	ppm	0.00
47) Acenaphthene-d10	6.961	164	370945	40.00	ppm	0.00
69) Phenanthrene-d10	8.794	188	635703	40.00	ppm	-0.01
83) Chrysene-d12	14.013	240	587746	40.00	ppm	-0.02
91) Perylene-d12	17.037	264	535059	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.643	152	164365	40.00	ppm	0.00
103) Phenanthrene-d10a	8.794	188	635703	40.00	ppm	-0.01
107) Chrysene-d12a	14.013	240	587746	40.00	ppm	-0.02
109) Acenaphthene-d10a	6.961	164	370945	40.00	ppm	0.00
111) Naphthalene-d8a	5.567	136	618907	40.00	ppm	0.00
113) Chrysene-d12b	14.013	240	587746	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.654	112	277912	49.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	98.54%	
8) Phenol-d5	4.381	99	348254	48.90	ppm	0.00
Spiked Amount 50.000			Recovery	=	97.80%	
25) Nitrobenzene-d5	5.049	82	291378	50.85	ppm	0.00
Spiked Amount 50.000			Recovery	=	101.70%	
51) 2-Fluorobiphenyl	6.363	172	548391	46.49	ppm	0.00
Spiked Amount 50.000			Recovery	=	92.98%	
73) 2,4,6-Tribromophenol	7.827	330	73470	53.12	ppm	-0.01
Spiked Amount 50.000			Recovery	=	106.24%	
85) Terphenyl-d14	11.807	244	632839	50.13	ppm	-0.02
Spiked Amount 50.000			Recovery	=	100.26%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	118991	48.19	ppm	96
3) Pyridine	2.490	79	313926	46.37	ppm	98
4) N-Nitrosodimethylamine	2.458	74	183399	49.28	ppm	96
6) Indene	4.835	116	446732	47.19	ppm	97
7) Cumene	4.055	105	690003	48.76	ppm	99
9) Phenol	4.392	94	391180	50.10	ppm	81
10) Aniline	4.402	93	388607	45.50	ppm #	53
11) bis(2-Chloroethyl)ether	4.450	93	246442	48.17	ppm	97
12) 2-Chlorophenol	4.493	128	282458	46.83	ppm	98
13) Decane	4.536	43	238562	46.63	ppm	99
14) 1,3-Dichlorobenzene	4.605	146	311503	47.29	ppm	98
15) 1,4-Dichlorobenzene	4.659	146	302989	46.03	ppm	99
16) Benzyl alcohol	4.744	108	179202	49.34	ppm	97
17) 1,2-Dichlorobenzene	4.771	146	278963	46.67	ppm	98
18) Acetophenone	4.937	105	362628	46.74	ppm	93
19) 2-Methylphenol	4.830	108	239332	47.94	ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.846	121	78135	50.15	ppm #	67

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111538.D
Acq On : 14 Jun 2016 6:00 pm
Operator : seanb1
Sample : icc5571-50
Misc : op94271,ez5571
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 07:55:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:53:22 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.942	108	253228	48.28	ppm	99
22) n-Nitroso-di-n-propyla...	4.942	70	191508	45.41	ppm	97
23) Hexachloroethane	5.017	201	106094	47.42	ppm	90
26) Nitrobenzene	5.059	77	294040	49.93	ppm	97
27) Quinoline	5.823	129	563483	47.45	ppm	99
28) Isophorone	5.236	82	529255	47.30	ppm	99
29) 2-Nitrophenol	5.294	139	150388	54.81	ppm	94
30) 2,4-Dimethylphenol	5.321	107	257722	46.28	ppm	97
31) Benzoic Acid	5.412	105	200523	77.21	ppm	98
32) bis(2-Chloroethoxy)met...	5.385	93	299787	48.09	ppm	99
33) 2,4-Dichlorophenol	5.465	162	230515	49.40	ppm	99
34) 2,6-Dichlorophenol	5.626	162	214580	48.24	ppm	98
35) 1,3,5-Trichlorobenzene	5.305	180	256126	48.23	ppm	97
36) 1,2,4-Trichlorobenzene	5.524	180	247676	48.26	ppm	97
37) 1,2,3-Trichlorobenzene	5.684	180	232573	46.91	ppm	97
38) Naphthalene	5.583	128	764201	46.76	ppm	100
39) 4-Chloroaniline	5.620	127	327498	47.39	ppm	96
40) 2,3-Dichloroaniline	6.293	161	272363	47.17	ppm	97
41) Caprolactam	5.877	55	112657	47.12	ppm	97
42) Hexachlorobutadiene	5.674	225	133506	47.75	ppm	99
43) 4-Chloro-3-methylphenol	5.968	107	250488	50.24	ppm	91
44) 2-Methylnaphthalene	6.080	141	457256	48.28	ppm	99
45) 1-Methylnaphthalene	6.155	141	465464	47.38	ppm	99
46) Dimethylnaphthalene	6.577	156	480840	47.74	ppm	99
48) Hexachlorocyclopentadiene	6.203	237	312737	101.84	ppm	98
49) 2,4,6-Trichlorophenol	6.299	196	161753	50.33	ppm	98
50) 2,4,5-Trichlorophenol	6.326	196	174783	48.43	ppm	99
52) 2-Chloronaphthalene	6.464	162	495374	46.48	ppm	97
53) Biphenyl	6.443	154	662318	47.86	ppm	99
54) 2-Nitroaniline	6.545	65	158354	56.33	ppm	94
55) Dimethylphthalate	6.699	163	587484	47.36	ppm	99
56) Acenaphthylene	6.828	152	839311	47.69	ppm	100
57) 2,6-Dinitrotoluene	6.753	165	130883	60.36	ppm	93
58) 3-Nitroaniline	6.913	138	153147	57.09	ppm	99
59) Acenaphthene	6.993	153	503183	46.93	ppm	98
60) 2,4-Dinitrophenol	7.015	184	120533	152.10	ppm	88
61) 4-Nitrophenol	7.073	109	84740	56.64	ppm	86
62) Dibenzofuran	7.164	168	708317	47.10	ppm	98
63) 2,4-Dinitrotoluene	7.148	165	181362	65.71	ppm	95
64) 2,3,4,6-Tetrachlorophenol	7.298	232	150804	51.14	ppm	93
65) Diethylphthalate	7.410	149	594609	46.65	ppm	99
66) Fluorene	7.538	166	564510	46.76	ppm	98
67) 4-Chlorophenyl-phenyle...	7.538	204	263688	46.57	ppm	98
68) 4-Nitroaniline	7.565	138	156913	55.05	ppm	89
70) 4,6-Dinitro-2-methylph...	7.602	198	96795	71.01	ppm	97
71) n-Nitrosodiphenylamine	7.677	169	411555	47.54	ppm	98
72) 1,2-Diphenylhydrazine	7.731	77	609151	48.62	ppm	98
74) 4-Bromophenyl-phenylether	8.158	248	166758	49.14	ppm	98
75) Hexachlorobenzene	8.249	284	170595	46.18	ppm	95
76) Pentachlorophenol	8.527	266	240610	115.65	ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111538.D
Acq On : 14 Jun 2016 6:00 pm
Operator : seanb1
Sample : icc5571-50
Misc : op94271,ez5571
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 07:55:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:53:22 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77)	Phenanthrene	8.831	178	830198	47.09 ppm	99
78)	Anthracene	8.911	178	849986	47.52 ppm	99
79)	Carbazole	9.178	167	828013	47.93 ppm	99
80)	Di-n-butylphthalate	9.878	149	1070487	50.51 ppm	100
81)	Fluoranthene	10.941	202	961103	50.09 ppm	98
82)	Octadecane	8.708	57	342732	48.63 ppm	98
84)	Pyrene	11.379	202	994031	49.93 ppm	100
86)	Butylbenzylphthalate	12.977	149	458662	51.01 ppm	95
87)	Benzo[a]anthracene	13.986	228	870555	47.59 ppm	100
88)	3,3'-Dichlorobenzidine	14.029	252	323661	49.75 ppm	97
89)	Chrysene	14.066	228	825701	48.32 ppm	99
90)	bis(2-Ethylhexyl)phtha...	14.392	149	615857	49.99 ppm	97
92)	Di-n-octylphthalate	15.829	149	1051929	48.51 ppm	99
93)	Benzo[b]fluoranthene	16.294	252	824535	46.35 ppm	95
94)	Benzo[k]fluoranthene	16.358	252	787063	46.95 ppm	98
95)	Benzo[a]pyrene	16.925	252	737092	46.57 ppm	100
96)	Indeno[1,2,3-cd]pyrene	18.976	276	664176	47.00 ppm	96
97)	Dibenz(a,h)acridine	18.618	279	620677	47.22 ppm	97
98)	Dibenz[a,h]anthracene	19.040	278	677123	46.19 ppm	96
99)	7,12-Dimethylbenz(a)an...	16.321	256	373465	48.31 ppm	98
100)	Benzo[g,h,i]perylene	19.409	276	679867	46.10 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.68

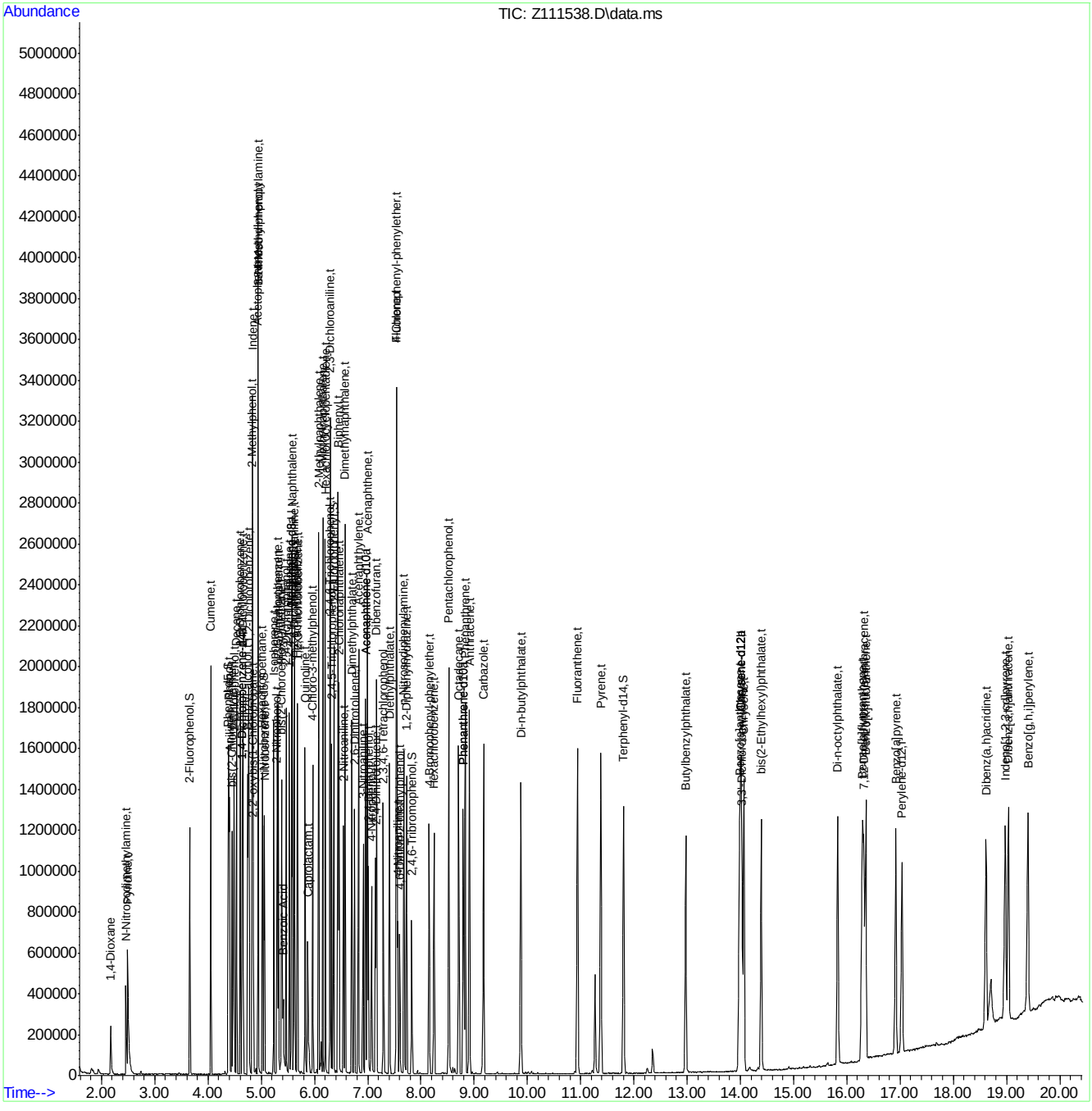
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111538.D
Acq On : 14 Jun 2016 6:00 pm
Operator : seanb1
Sample : icc5571-50
Misc : op94271,ez5571
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 07:55:01 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 07:53:22 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 07:55:05 2016 RTE Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111539.D
Acq On : 14 Jun 2016 6:30 pm
Operator : seanb1
Sample : ic5571-25
Misc : op94271,ez5571
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 08:05:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:03:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	174442	40.00	ppm	0.00
24) Naphthalene-d8	5.567	136	645095	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	380891	40.00	ppm	0.00
69) Phenanthrene-d10	8.794	188	649421	40.00	ppm	0.00
83) Chrysene-d12	14.003	240	611142	40.00	ppm	-0.02
91) Perylene-d12	17.032	264	532546	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.643	152	174442	40.00	ppm	0.00
103) Phenanthrene-d10a	8.794	188	649421	40.00	ppm	0.00
107) Chrysene-d12a	14.003	240	611142	40.00	ppm	-0.02
109) Acenaphthene-d10a	6.956	164	380891	40.00	ppm	0.00
111) Naphthalene-d8a	5.567	136	645095	40.00	ppm	0.00
113) Chrysene-d12b	14.003	240	611142	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.655	112	147830	24.85	ppm	0.00
Spiked Amount 50.000			Recovery	=	49.70%	
8) Phenol-d5	4.376	99	186398	25.05	ppm	-0.01
Spiked Amount 50.000			Recovery	=	50.10%	
25) Nitrobenzene-d5	5.044	82	153992	25.64	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.28%	
51) 2-Fluorobiphenyl	6.358	172	299496	25.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.86%	
73) 2,4,6-Tribromophenol	7.827	330	37361	25.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.66%	
85) Terphenyl-d14	11.801	244	328751	25.22	ppm	-0.02
Spiked Amount 50.000			Recovery	=	50.44%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	61551	23.87	ppm	98
3) Pyridine	2.490	79	162714	23.26	ppm	98
4) N-Nitrosodimethylamine	2.458	74	95450	24.38	ppm	97
6) Indene	4.835	116	249355	25.85	ppm	97
7) Cumene	4.050	105	377325	25.64	ppm	98
9) Phenol	4.386	94	214225	26.00	ppm	95
10) Aniline	4.397	93	214469	24.98	ppm	99
11) bis(2-Chloroethyl)ether	4.445	93	132540	25.00	ppm	94
12) 2-Chlorophenol	4.488	128	155405	25.26	ppm	97
13) Decane	4.531	43	132301	25.44	ppm	93
14) 1,3-Dichlorobenzene	4.605	146	170988	25.37	ppm	98
15) 1,4-Dichlorobenzene	4.659	146	168960	25.38	ppm	99
16) Benzyl alcohol	4.744	108	94356	24.72	ppm	93
17) 1,2-Dichlorobenzene	4.771	146	156751	25.83	ppm	98
18) Acetophenone	4.937	105	201023	25.57	ppm	99
19) 2-Methylphenol	4.830	108	132797	25.93	ppm	100
20) 2,2'-oxybis(1-Chloropr...	4.846	121	42765	26.04	ppm	95

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111539.D
Acq On : 14 Jun 2016 6:30 pm
Operator : seanb1
Sample : ic5571-25
Misc : op94271,ez5571
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 08:05:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:03:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.937	108	137543	25.40	ppm	99
22) n-Nitroso-di-n-propyla...	4.937	70	108930	25.80	ppm	95
23) Hexachloroethane	5.017	201	57664	25.19	ppm	94
26) Nitrobenzene	5.060	77	158085	26.04	ppm	95
27) Quinoline	5.818	129	295634	24.67	ppm	99
28) Isophorone	5.231	82	285438	25.26	ppm	98
29) 2-Nitrophenol	5.289	139	77477	25.92	ppm	82
30) 2,4-Dimethylphenol	5.321	107	135832	24.37	ppm	97
31) Benzoic Acid	5.396	105	95332	28.27	ppm	97
32) bis(2-Chloroethoxy)met...	5.385	93	158836	25.10	ppm	99
33) 2,4-Dichlorophenol	5.460	162	125379	26.17	ppm	98
34) 2,6-Dichlorophenol	5.626	162	115809	25.72	ppm	97
35) 1,3,5-Trichlorobenzene	5.300	180	141294	26.38	ppm	97
36) 1,2,4-Trichlorobenzene	5.524	180	135253	25.97	ppm	96
37) 1,2,3-Trichlorobenzene	5.685	180	129341	26.09	ppm	98
38) Naphthalene	5.578	128	414041	25.36	ppm	99
39) 4-Chloroaniline	5.615	127	180941	26.06	ppm	97
40) 2,3-Dichloroaniline	6.294	161	146890	25.34	ppm	98
41) Caprolactam	5.861	55	58654	24.26	ppm	98
42) Hexachlorobutadiene	5.674	225	74880	26.56	ppm	99
43) 4-Chloro-3-methylphenol	5.962	107	132699	25.67	ppm	99
44) 2-Methylnaphthalene	6.080	141	248245	25.94	ppm	96
45) 1-Methylnaphthalene	6.155	141	252287	25.64	ppm	99
46) Dimethylnaphthalene	6.571	156	263187	25.87	ppm	99
48) Hexachlorocyclopentadiene	6.203	237	173307	55.45	ppm	99
49) 2,4,6-Trichlorophenol	6.294	196	89074	27.25	ppm	98
50) 2,4,5-Trichlorophenol	6.320	196	90686	25.14	ppm	98
52) 2-Chloronaphthalene	6.459	162	267183	25.63	ppm	97
53) Biphenyl	6.438	154	349556	25.54	ppm	99
54) 2-Nitroaniline	6.539	65	80304	26.29	ppm	95
55) Dimethylphthalate	6.694	163	315302	25.64	ppm	100
56) Acenaphthylene	6.823	152	452189	25.89	ppm	100
57) 2,6-Dinitrotoluene	6.748	165	64763	26.49	ppm	95
58) 3-Nitroaniline	6.908	138	75035	25.42	ppm	98
59) Acenaphthene	6.988	153	268870	25.47	ppm	99
60) 2,4-Dinitrophenol	7.010	184	48684	46.58	ppm	84
61) 4-Nitrophenol	7.068	109	42160	25.65	ppm	94
62) Dibenzofuran	7.164	168	383885	25.88	ppm	98
63) 2,4-Dinitrotoluene	7.143	165	91076	27.82	ppm	95
64) 2,3,4,6-Tetrachlorophenol	7.293	232	76452	25.13	ppm	96
65) Diethylphthalate	7.405	149	315892	25.13	ppm	99
66) Fluorene	7.538	166	307017	25.92	ppm	99
67) 4-Chlorophenyl-phenyle...	7.533	204	145565	26.30	ppm	99
68) 4-Nitroaniline	7.554	138	78972	25.66	ppm	99
70) 4,6-Dinitro-2-methylph...	7.592	198	44455	25.83	ppm	94
71) n-Nitrosodiphenylamine	7.672	169	221530	25.88	ppm	98
72) 1,2-Diphenylhydrazine	7.725	77	321298	25.66	ppm	100
74) 4-Bromophenyl-phenylether	8.153	248	89167	26.16	ppm	98
75) Hexachlorobenzene	8.244	284	92077	25.51	ppm	96
76) Pentachlorophenol	8.521	266	123532	54.13	ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111539.D
Acq On : 14 Jun 2016 6:30 pm
Operator : seanb1
Sample : ic5571-25
Misc : op94271,ez5571
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 08:05:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:03:02 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.826	178	442520	25.56	ppm	99
78)	Anthracene	8.906	178	456271	25.84	ppm	99
79)	Carbazole	9.173	167	440506	25.64	ppm	100
80)	Di-n-butylphthalate	9.873	149	560254	25.98	ppm	100
81)	Fluoranthene	10.936	202	506993	26.04	ppm	98
82)	Octadecane	8.708	57	181754	25.80	ppm	98
84)	Pyrene	11.374	202	522877	25.47	ppm	98
86)	Butylbenzylphthalate	12.971	149	243508	25.76	ppm	98
87)	Benzo[a]anthracene	13.981	228	458985	24.79	ppm	99
88)	3,3'-Dichlorobenzidine	14.019	252	169272	25.07	ppm	98
89)	Chrysene	14.056	228	435087	24.95	ppm	99
90)	bis(2-Ethylhexyl)phtha...	14.387	149	324284	25.37	ppm	99
92)	Di-n-octylphthalate	15.824	149	543128	25.78	ppm	99
93)	Benzo[b]fluoranthene	16.278	252	434966	25.56	ppm	99
94)	Benzo[k]fluoranthene	16.342	252	404499	25.26	ppm	98
95)	Benzo[a]pyrene	16.909	252	385669	25.52	ppm	100
96)	Indeno[1,2,3-cd]pyrene	18.965	276	341501	25.03	ppm	96
97)	Dibenz(a,h)acridine	18.602	279	317215	24.99	ppm	98
98)	Dibenz[a,h]anthracene	19.024	278	345826	24.69	ppm	99
99)	7,12-Dimethylbenz(a)an...	16.305	256	194756	25.80	ppm	99
100)	Benzo[g,h,i]perylene	19.393	276	349959	24.75	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.69

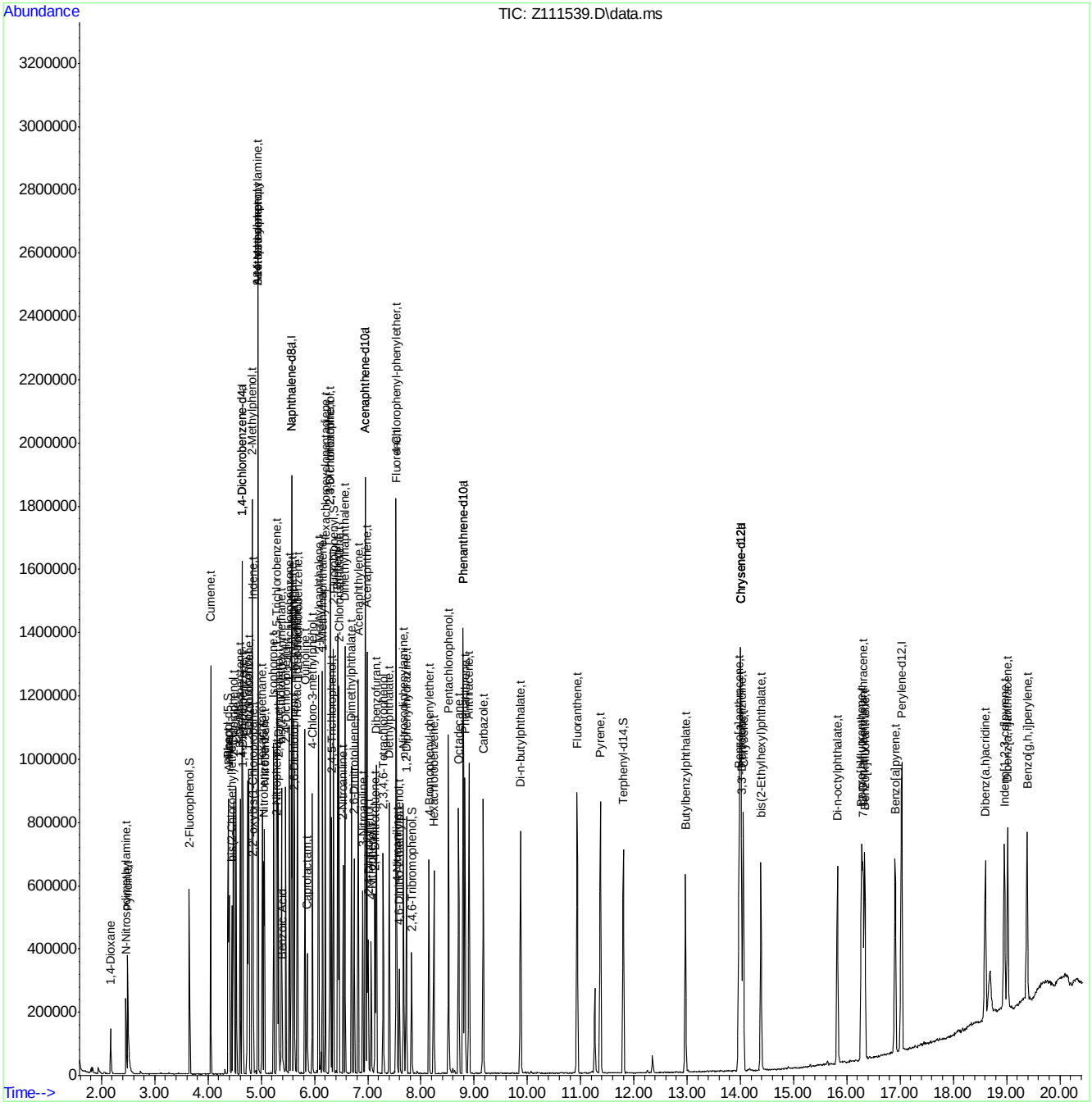
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111539.D
Acq On : 14 Jun 2016 6:30 pm
Operator : seanb1
Sample : ic5571-25
Misc : op94271,ez5571
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 08:05:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:03:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/17/16 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:07:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	174718	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	644114	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	381092	40.00	ppm	0.00
69) Phenanthrene-d10	8.788	188	648960	40.00	ppm	0.00
83) Chrysene-d12	13.997	240	627120	40.00	ppm	0.00
91) Perylene-d12	17.026	264	545794	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.643	152	174718	40.00	ppm	0.00
103) Phenanthrene-d10a	8.788	188	648960	40.00	ppm	0.00
107) Chrysene-d12a	13.997	240	627120	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	381092	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	644114	40.00	ppm	0.00
113) Chrysene-d12b	13.997	240	627120	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.654	112	59124	9.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.86%	
8) Phenol-d5	4.370	99	75441	10.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.24%	
25) Nitrobenzene-d5	5.043	82	61672	10.23	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.46%	
51) 2-Fluorobiphenyl	6.358	172	126971	10.91	ppm	0.00
Spiked Amount 50.000			Recovery	=	21.82%	
73) 2,4,6-Tribromophenol	7.821	330	15089	10.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.74%	
85) Terphenyl-d14	11.796	244	137603	10.27	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.54%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	24475	9.56	ppm	95
3) Pyridine	2.500	79	71441	10.34	ppm	97
4) N-Nitrosodimethylamine	2.463	74	38505	9.87	ppm	98
6) Indene	4.830	116	105693	10.86	ppm	94
7) Cumene	4.050	105	153079	10.33	ppm	97
9) Phenol	4.381	94	80405m	9.67	ppm	
10) Aniline	4.397	93	95379	11.09	ppm	99
11) bis(2-Chloroethyl)ether	4.445	93	55521	10.46	ppm	97
12) 2-Chlorophenol	4.488	128	66451	10.76	ppm	98
13) Decane	4.531	43	53878	10.31	ppm	96
14) 1,3-Dichlorobenzene	4.600	146	70377	10.40	ppm	97
15) 1,4-Dichlorobenzene	4.653	146	70051	10.47	ppm	98
16) Benzyl alcohol	4.744	108	38429	10.08	ppm	90
17) 1,2-Dichlorobenzene	4.771	146	66370	10.85	ppm	97
18) Acetophenone	4.937	105	86096	10.88	ppm	97
19) 2-Methylphenol	4.824	108	55441	10.73	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.846	121	18213	10.98	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:07:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.937	108	58969	10.84	ppm	99
22) n-Nitroso-di-n-propyla...	4.937	70	46319	10.88	ppm	99
23) Hexachloroethane	5.017	201	23514	10.24	ppm	91
26) Nitrobenzene	5.059	77	64996	10.64	ppm	93
27) Quinoline	5.818	129	123367	10.34	ppm	98
28) Isophorone	5.230	82	116788	10.33	ppm	99
29) 2-Nitrophenol	5.289	139	29542	9.83	ppm	86
30) 2,4-Dimethylphenol	5.316	107	55921	10.10	ppm	100
31) Benzoic Acid	5.375	105	33140	9.59	ppm	96
32) bis(2-Chloroethoxy)met...	5.385	93	67586	10.69	ppm	99
33) 2,4-Dichlorophenol	5.460	162	50828	10.53	ppm	97
34) 2,6-Dichlorophenol	5.620	162	47789	10.57	ppm	96
35) 1,3,5-Trichlorobenzene	5.300	180	60374	11.16	ppm	96
36) 1,2,4-Trichlorobenzene	5.524	180	57527	10.98	ppm	99
37) 1,2,3-Trichlorobenzene	5.684	180	56409	11.30	ppm	97
38) Naphthalene	5.578	128	175542	10.74	ppm	99
39) 4-Chloroaniline	5.615	127	77221	11.04	ppm	99
40) 2,3-Dichloroaniline	6.288	161	63078	10.87	ppm	98
41) Caprolactam	5.850	55	24771	10.32	ppm	97
42) Hexachlorobutadiene	5.674	225	31036	10.89	ppm	96
43) 4-Chloro-3-methylphenol	5.957	107	53836	10.37	ppm	95
44) 2-Methylnaphthalene	6.074	141	101901	10.59	ppm	99
45) 1-Methylnaphthalene	6.149	141	108036	10.94	ppm	98
46) Dimethylnaphthalene	6.571	156	111147	10.87	ppm	99
48) Hexachlorocyclopentadiene	6.203	237	70334	22.01	ppm	100
49) 2,4,6-Trichlorophenol	6.293	196	36964	11.10	ppm	96
50) 2,4,5-Trichlorophenol	6.320	196	38802	10.74	ppm	99
52) 2-Chloronaphthalene	6.459	162	115786	11.05	ppm	98
53) Biphenyl	6.438	154	149210	10.85	ppm	99
54) 2-Nitroaniline	6.534	65	30868	10.00	ppm	88
55) Dimethylphthalate	6.694	163	130765	10.57	ppm	99
56) Acenaphthylene	6.822	152	191657	10.89	ppm	100
57) 2,6-Dinitrotoluene	6.748	165	24201	9.78	ppm	94
58) 3-Nitroaniline	6.902	138	28382	9.58	ppm	92
59) Acenaphthene	6.988	153	114098	10.76	ppm	96
60) 2,4-Dinitrophenol	7.004	184	13223	12.82	ppm	86
61) 4-Nitrophenol	7.063	109	15842	9.58	ppm	96
62) Dibenzofuran	7.159	168	164096	10.98	ppm	99
63) 2,4-Dinitrotoluene	7.138	165	32757	9.78	ppm	91
64) 2,3,4,6-Tetrachlorophenol	7.292	232	31704	10.40	ppm	95
65) Diethylphthalate	7.405	149	132581	10.53	ppm	100
66) Fluorene	7.533	166	133515	11.18	ppm	98
67) 4-Chlorophenyl-phenyle...	7.533	204	61397	10.97	ppm	98
68) 4-Nitroaniline	7.544	138	31078	10.04	ppm	90
70) 4,6-Dinitro-2-methylph...	7.586	198	13566	7.83	ppm	98
71) n-Nitrosodiphenylamine	7.672	169	92205	10.70	ppm	100
72) 1,2-Diphenylhydrazine	7.720	77	138162	10.99	ppm	98
74) 4-Bromophenyl-phenylether	8.153	248	36801	10.70	ppm	91
75) Hexachlorobenzene	8.238	284	38286	10.57	ppm	98
76) Pentachlorophenol	8.516	266	48467	20.91	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:07:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77) Phenanthrene	8.826	178	185618	10.68 ppm	99
78) Anthracene	8.900	178	192380	10.83 ppm	99
79) Carbazole	9.168	167	183824	10.65 ppm	100
80) Di-n-butylphthalate	9.867	149	226108	10.41 ppm	99
81) Fluoranthene	10.931	202	211584	10.78 ppm	97
82) Octadecane	8.703	57	75299	10.63 ppm	100
84) Pyrene	11.369	202	220538	10.43 ppm	99
86) Butylbenzylphthalate	12.966	149	99608	10.21 ppm	99
87) Benzo[a]anthracene	13.970	228	196219	10.35 ppm	96
88) 3,3'-Dichlorobenzidine	14.018	252	71953	10.38 ppm	95
89) Chrysene	14.045	228	188016	10.51 ppm	99
90) bis(2-Ethylhexyl)phtha...	14.382	149	135116	10.27 ppm	99
92) Di-n-octylphthalate	15.819	149	229965	10.58 ppm	98
93) Benzo[b]fluoranthene	16.267	252	187137	10.68 ppm	99
94) Benzo[k]fluoranthene	16.326	252	176094	10.71 ppm	98
95) Benzo[a]pyrene	16.898	252	165582	10.65 ppm	98
96) Indeno[1,2,3-cd]pyrene	18.949	276	143755	10.28 ppm	98
97) Dibenz(a,h)acridine	18.591	279	139845	10.75 ppm	95
98) Dibenz[a,h]anthracene	19.013	278	146810	10.25 ppm	97
99) 7,12-Dimethylbenz(a)an...	16.294	256	82612	10.61 ppm	98
100) Benzo[g,h,i]perylene	19.377	276	148972	10.30 ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.70

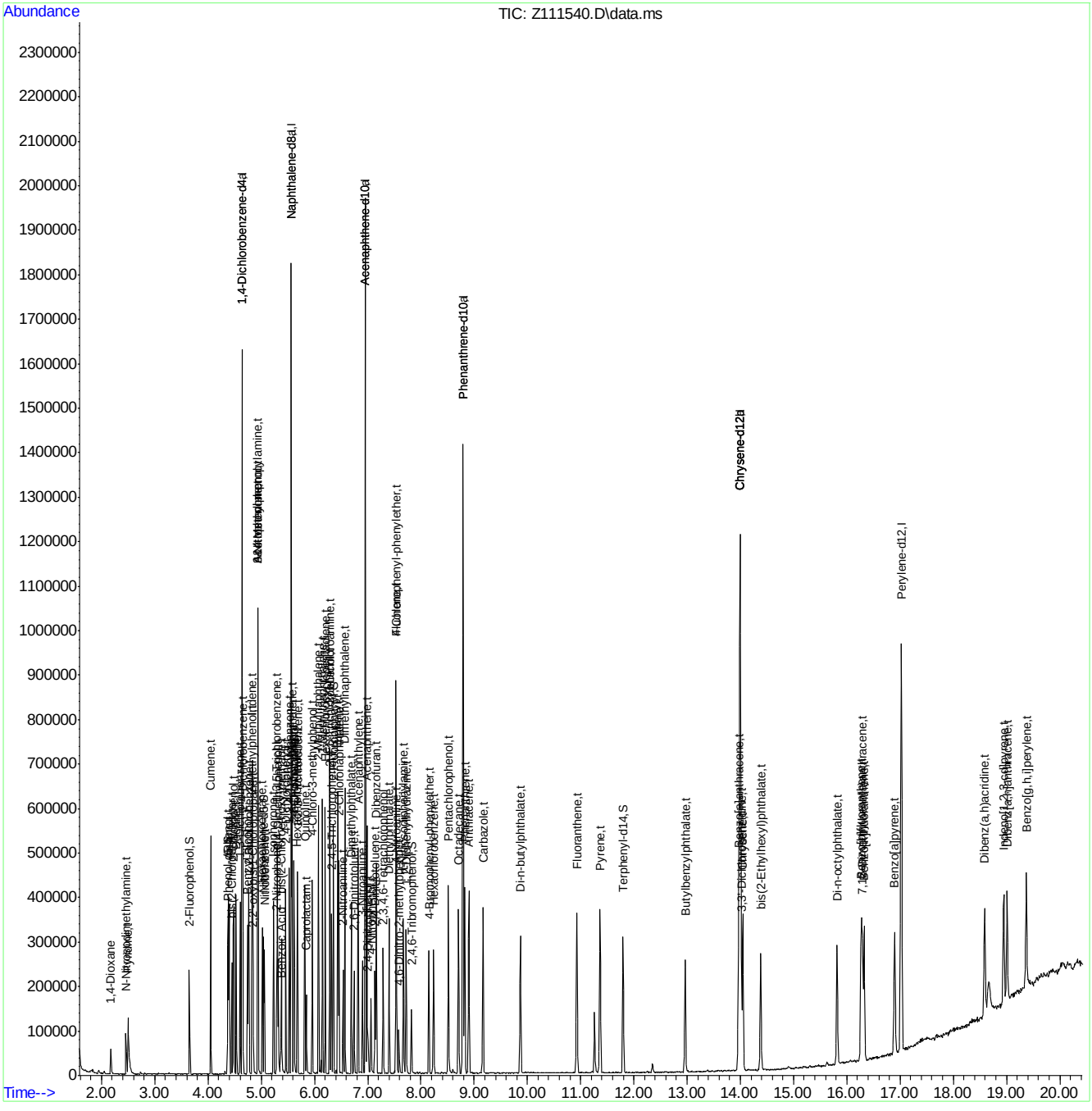
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:07:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 08:07:19 2016 RTE Page: 4

Manual Integration Approval Summary

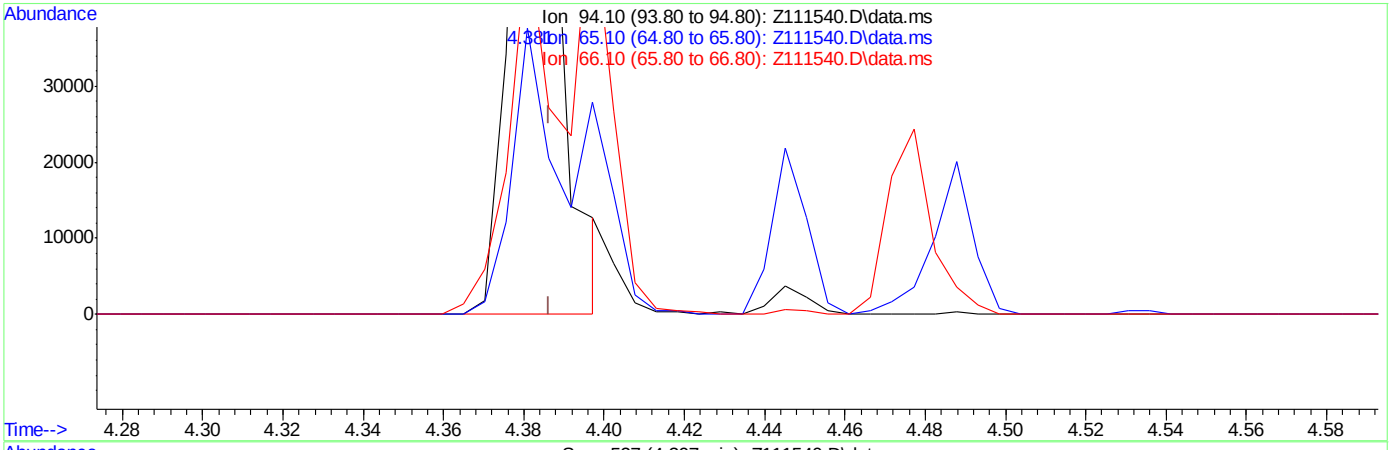
Sample Number:	EZ5571-IC5571	**Method:**	SW846 8270D
Lab FileID:	Z111540.D	**Analyst approved:**	06/15/16 08:31 Arielle Cocozza
Injection Time:	06/14/16 19:00	**Supervisor approved:**	06/17/16 15:33 Nina Pandya

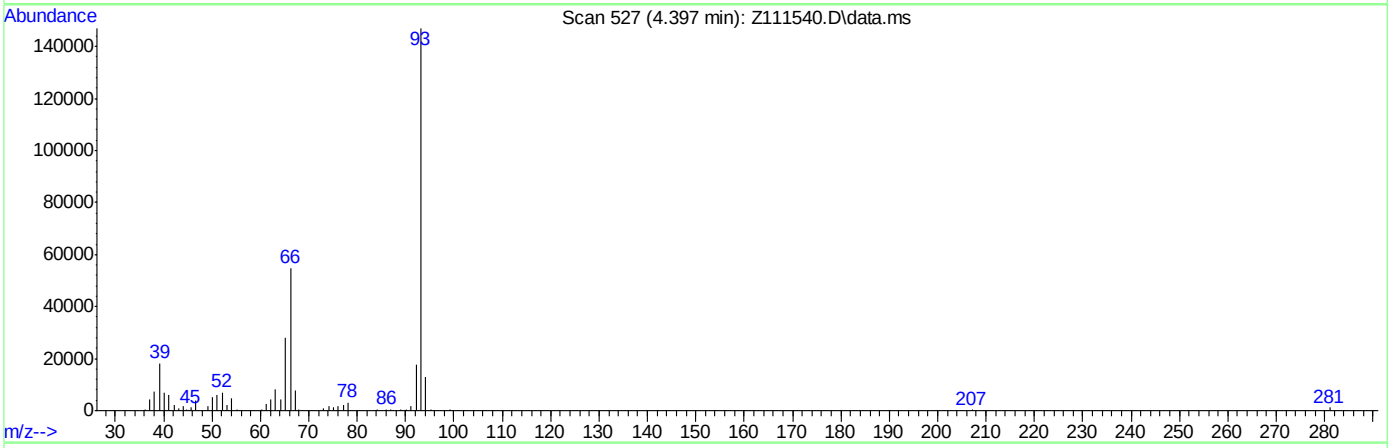
Parameter	CAS	Sig#	R.T. (min.)	Reason
Phenol	108-95-2		4.38	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:05:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration





TIC: Z111540.D\data.ms

(9) Phenol (t)

4.381min (-0.005) 10.16ppm

response 84487

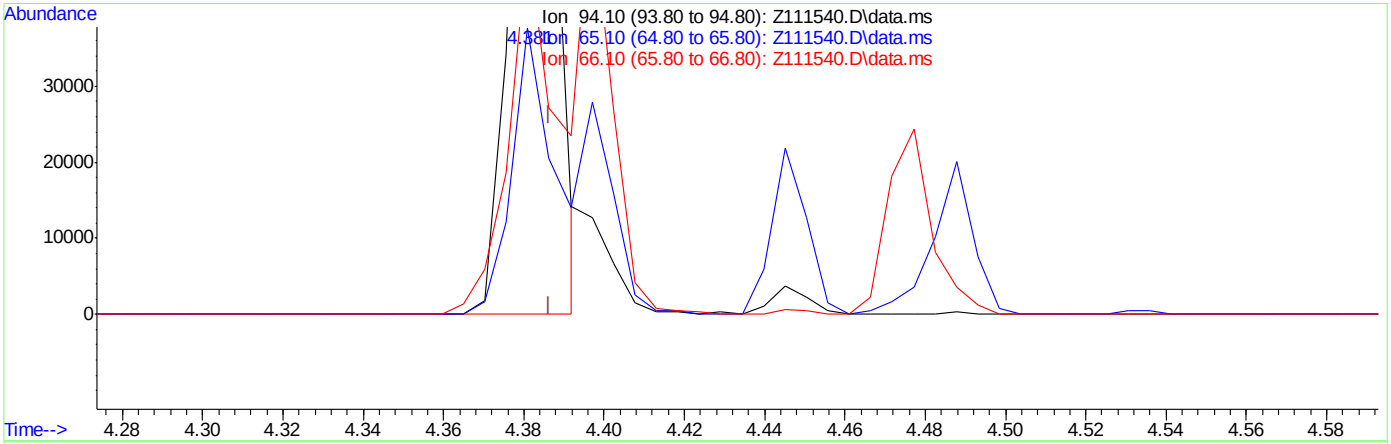
Ion	Exp%	Act%
94.10	100	100
65.10	29.60	20.04
66.10	39.90	17.35
0.00	0.00	0.00

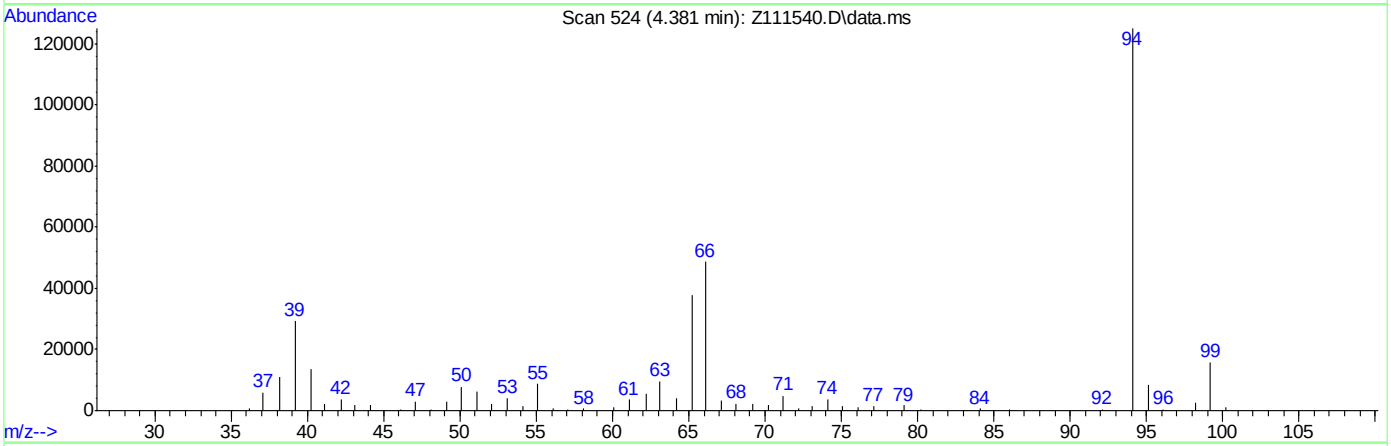
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111540.D
Acq On : 14 Jun 2016 7:00 pm
Operator : seanb1
Sample : ic5571-10
Misc : op94271,ez5571
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:05:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration





TIC: Z111540.D\data.ms

(9) Phenol (t)

4.381min (-0.005) 9.67ppm m

response 80405

Ion	Exp%	Act%
94.10	100	100
65.10	29.60	30.17
66.10	39.90	38.93
0.00	0.00	0.00

SGS ACCUTEST JC23443

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/17/16 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:10:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	183518	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	688038	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	400229	40.00	ppm	0.00
69) Phenanthrene-d10	8.788	188	682148	40.00	ppm	0.00
83) Chrysene-d12	13.992	240	667057	40.00	ppm	-0.01
91) Perylene-d12	17.026	264	575126	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.643	152	183518	40.00	ppm	0.00
103) Phenanthrene-d10a	8.788	188	682148	40.00	ppm	0.00
107) Chrysene-d12a	13.992	240	667057	40.00	ppm	-0.01
109) Acenaphthene-d10a	6.956	164	400229	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	688038	40.00	ppm	0.00
113) Chrysene-d12b	13.992	240	667057	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.649	112	31709	5.07	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.14%	
8) Phenol-d5	4.370	99	40627	5.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.38%	
25) Nitrobenzene-d5	5.044	82	33245	5.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.32%	
51) 2-Fluorobiphenyl	6.358	172	68834	5.63	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.26%	
73) 2,4,6-Tribromophenol	7.822	330	7841	5.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.26%	
85) Terphenyl-d14	11.796	244	73103	5.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.26%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.169	88	13758	5.12	ppm	98
3) Pyridine	2.501	79	38595	5.32	ppm	97
4) N-Nitrosodimethylamine	2.463	74	20584	5.02	ppm	99
6) Indene	4.830	116	59932	5.87	ppm	98
7) Cumene	4.050	105	82656	5.31	ppm	97
9) Phenol	4.381	94	43221m	4.95	ppm	
10) Aniline	4.397	93	52714	5.84	ppm	97
11) bis(2-Chloroethyl)ether	4.445	93	29334	5.26	ppm	94
12) 2-Chlorophenol	4.488	128	36524	5.63	ppm	98
13) Decane	4.531	43	29767	5.42	ppm	96
14) 1,3-Dichlorobenzene	4.600	146	39371	5.54	ppm	99
15) 1,4-Dichlorobenzene	4.654	146	38698	5.51	ppm	98
16) Benzyl alcohol	4.739	108	20074	5.01	ppm	91
17) 1,2-Dichlorobenzene	4.766	146	36813	5.73	ppm	96
18) Acetophenone	4.931	105	46873	5.64	ppm	94
19) 2-Methylphenol	4.825	108	30752	5.67	ppm	95
20) 2,2'-oxybis(1-Chloropr...	4.841	121	9742	5.59	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:10:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.931	108	31155	5.45	ppm	93
22) n-Nitroso-di-n-propyla...	4.937	70	26672	5.97	ppm	97
23) Hexachloroethane	5.017	201	13247	5.49	ppm	86
26) Nitrobenzene	5.054	77	36136	5.54	ppm	99
27) Quinoline	5.813	129	66971	5.25	ppm	99
28) Isophorone	5.225	82	64283	5.32	ppm	94
29) 2-Nitrophenol	5.289	139	14309	4.46	ppm	91
30) 2,4-Dimethylphenol	5.316	107	31884	5.39	ppm	99
31) Benzoic Acid	5.359	105	15691	4.25	ppm	95
32) bis(2-Chloroethoxy)met...	5.380	93	37604	5.57	ppm	98
33) 2,4-Dichlorophenol	5.460	162	28155	5.46	ppm	95
34) 2,6-Dichlorophenol	5.620	162	26830	5.55	ppm	99
35) 1,3,5-Trichlorobenzene	5.300	180	33339	5.77	ppm	98
36) 1,2,4-Trichlorobenzene	5.524	180	31910	5.70	ppm	97
37) 1,2,3-Trichlorobenzene	5.685	180	29859	5.60	ppm	96
38) Naphthalene	5.578	128	96377	5.52	ppm	99
39) 4-Chloroaniline	5.615	127	42301	5.66	ppm	98
40) 2,3-Dichloroaniline	6.288	161	34929	5.63	ppm	99
41) Caprolactam	5.840	55	13021	5.08	ppm	95
42) Hexachlorobutadiene	5.674	225	17183	5.64	ppm	97
43) 4-Chloro-3-methylphenol	5.957	107	29283	5.28	ppm	99
44) 2-Methylnaphthalene	6.075	141	56205	5.47	ppm	98
45) 1-Methylnaphthalene	6.149	141	59013	5.59	ppm	98
46) Dimethylnaphthalene	6.571	156	59018	5.40	ppm	99
48) Hexachlorocyclopentadiene	6.203	237	37332	11.13	ppm	98
49) 2,4,6-Trichlorophenol	6.288	196	20178	5.77	ppm	96
50) 2,4,5-Trichlorophenol	6.320	196	20925	5.51	ppm	99
52) 2-Chloronaphthalene	6.454	162	63335	5.75	ppm	96
53) Biphenyl	6.438	154	81206	5.62	ppm	97
54) 2-Nitroaniline	6.534	65	15855	4.89	ppm	86
55) Dimethylphthalate	6.689	163	71842	5.53	ppm	99
56) Acenaphthylene	6.817	152	104036	5.63	ppm	99
57) 2,6-Dinitrotoluene	6.742	165	11994	4.61	ppm	90
58) 3-Nitroaniline	6.903	138	13886	4.46	ppm	95
59) Acenaphthene	6.988	153	61361	5.51	ppm	94
60) 2,4-Dinitrophenol	7.004	184	4831	4.46	ppm	77
61) 4-Nitrophenol	7.058	109	7403	4.26	ppm	88
62) Dibenzofuran	7.159	168	88581	5.64	ppm	97
63) 2,4-Dinitrotoluene	7.138	165	14740	4.19	ppm	98
64) 2,3,4,6-Tetrachlorophenol	7.287	232	16647	5.20	ppm	97
65) Diethylphthalate	7.399	149	71836	5.43	ppm	98
66) Fluorene	7.533	166	72528	5.79	ppm	99
67) 4-Chlorophenyl-phenyle...	7.533	204	34585	5.89	ppm	97
68) 4-Nitroaniline	7.544	138	15804	4.86	ppm	97
70) 4,6-Dinitro-2-methylph...	7.586	198	5165	2.84	ppm	89
71) n-Nitrosodiphenylamine	7.667	169	49842	5.50	ppm	98
72) 1,2-Diphenylhydrazine	7.720	77	74287	5.62	ppm	100
74) 4-Bromophenyl-phenylether	8.147	248	19563	5.41	ppm	94
75) Hexachlorobenzene	8.238	284	20276	5.33	ppm	99
76) Pentachlorophenol	8.516	266	24387	10.01	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:10:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.820	178	101701	5.57	ppm	97
78)	Anthracene	8.901	178	104564	5.60	ppm	100
79)	Carbazole	9.168	167	100102	5.52	ppm	100
80)	Di-n-butylphthalate	9.868	149	121731	5.33	ppm	98
81)	Fluoranthene	10.925	202	114583	5.56	ppm	98
82)	Octadecane	8.703	57	40132	5.39	ppm	98
84)	Pyrene	11.363	202	121129	5.39	ppm	97
86)	Butylbenzylphthalate	12.961	149	53108	5.12	ppm	92
87)	Benzo[a]anthracene	13.970	228	104748	5.19	ppm	97
88)	3,3'-Dichlorobenzidine	14.013	252	39105	5.30	ppm	97
89)	Chrysene	14.045	228	101797	5.35	ppm	98
90)	bis(2-Ethylhexyl)phtha...	14.382	149	73860	5.28	ppm	100
92)	Di-n-octylphthalate	15.813	149	125662	5.49	ppm	97
93)	Benzo[b]fluoranthene	16.268	252	101639	5.51	ppm	98
94)	Benzo[k]fluoranthene	16.321	252	97228	5.61	ppm	99
95)	Benzo[a]pyrene	16.893	252	90037	5.49	ppm	99
96)	Indeno[1,2,3-cd]pyrene	18.944	276	79980	5.43	ppm	97
97)	Dibenz(a,h)acridine	18.591	279	75392	5.50	ppm	97
98)	Dibenz[a,h]anthracene	19.008	278	81078	5.37	ppm	97
99)	7,12-Dimethylbenz(a)an...	16.289	256	43408	5.29	ppm	93
100)	Benzo[g,h,i]perylene	19.371	276	82871	5.44	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.71

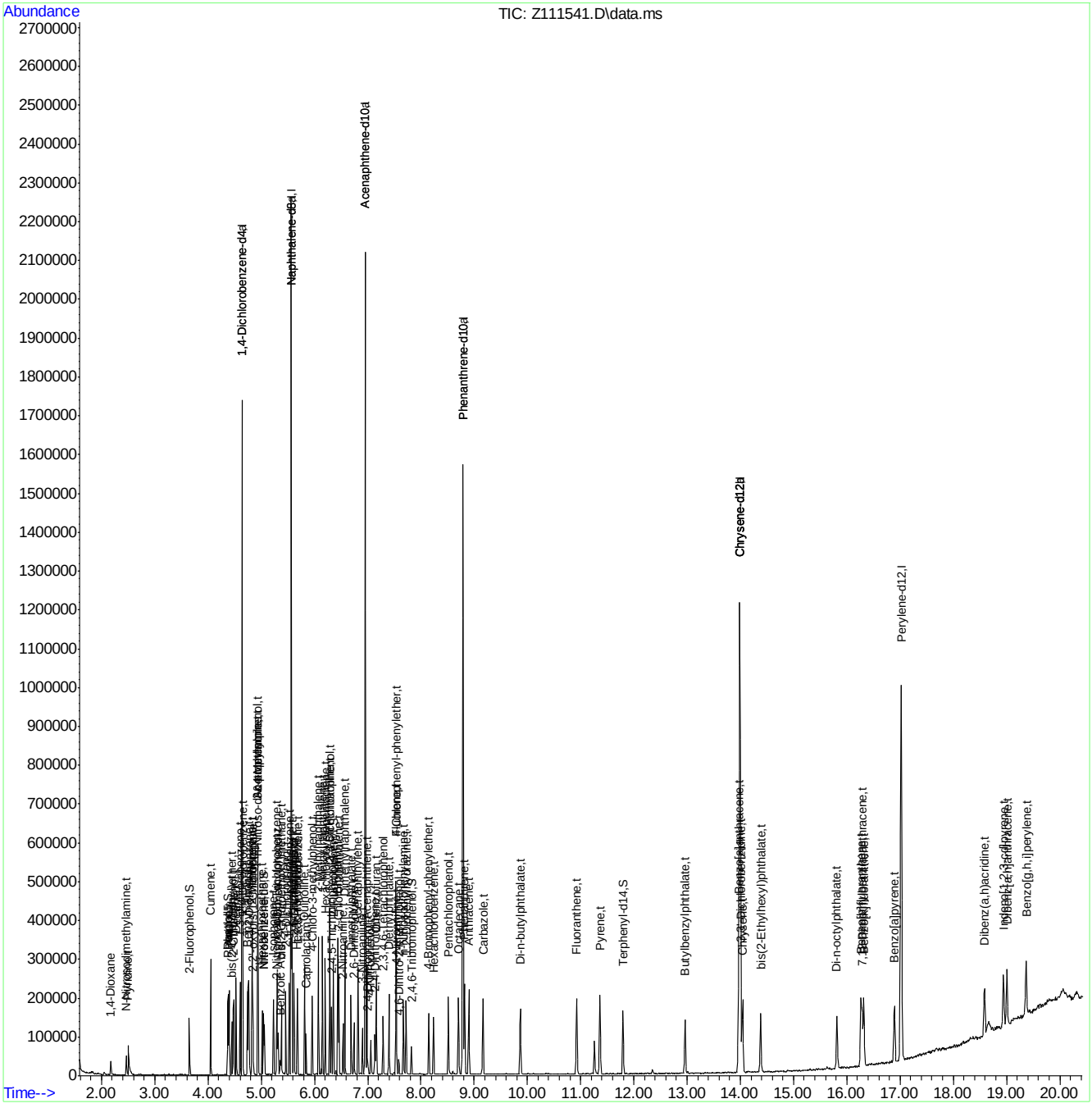
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:10:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 08:10:50 2016 RTE Page: 4

Manual Integration Approval Summary

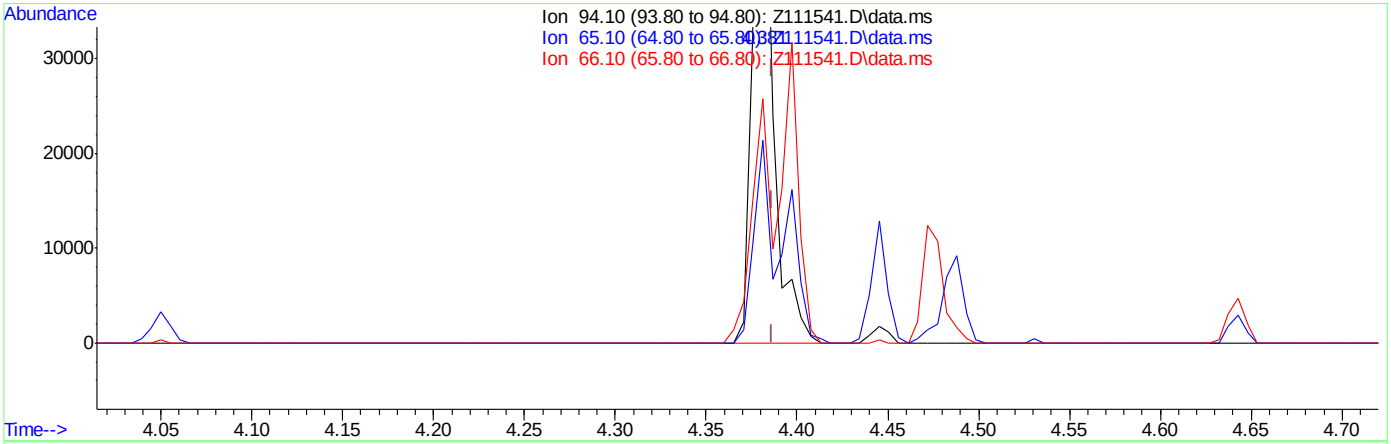
Sample Number:	EZ5571-IC5571	**Method:**	SW846 8270D
Lab FileID:	Z111541.D	**Analyst approved:**	06/15/16 08:31 Arielle Cocozza
Injection Time:	06/14/16 19:30	**Supervisor approved:**	06/17/16 15:33 Nina Pandya

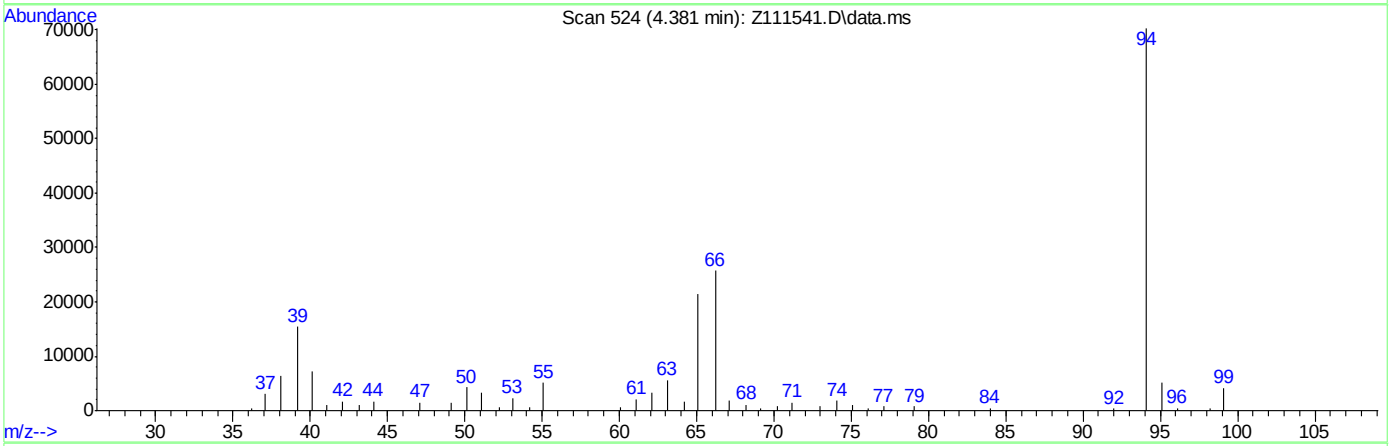
Parameter	CAS	Sig#	R.T. (min.)	Reason
Phenol	108-95-2		4.38	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:09:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration





TIC: Z111541.D\data.ms

(9) Phenol (t)

4.381min (-0.005) 5.32ppm

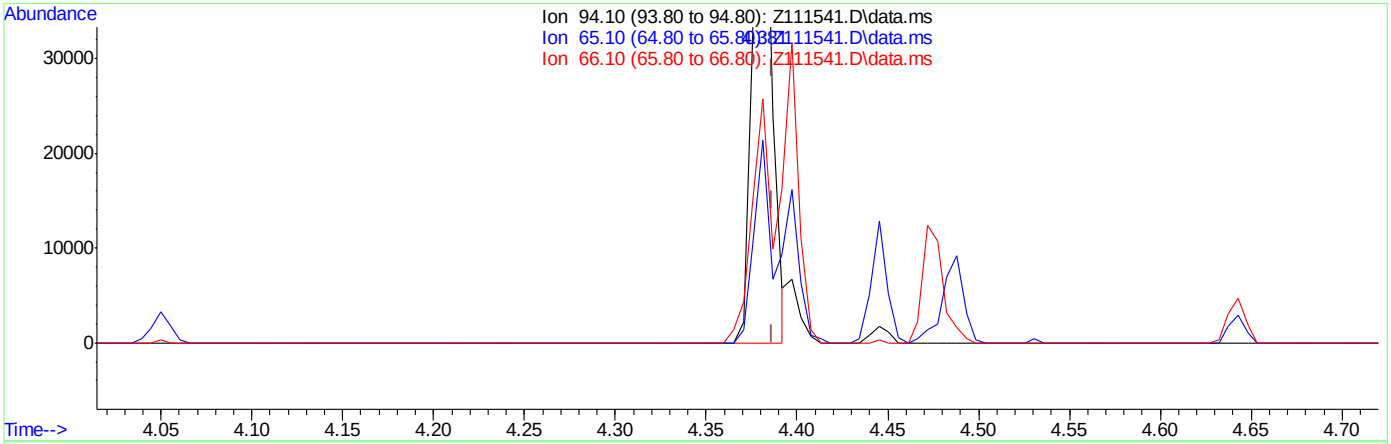
response 46437

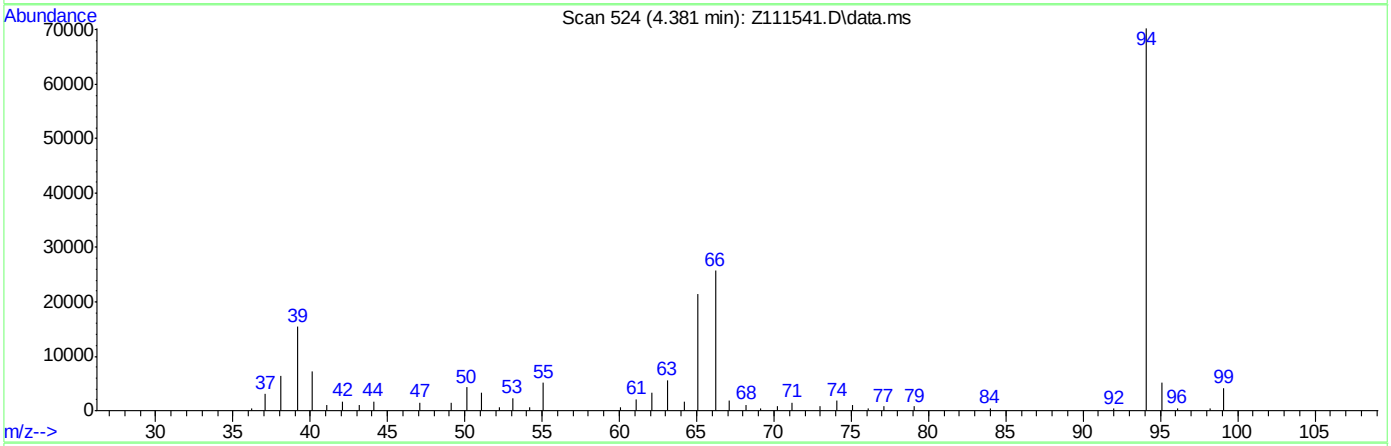
Ion	Exp%	Act%
94.10	100	100
65.10	29.60	30.12
66.10	39.90	35.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111541.D
Acq On : 14 Jun 2016 7:30 pm
Operator : seanb1
Sample : ic5571-5
Misc : op94271,ez5571
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 08:09:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:05:17 2016
Response via : Initial Calibration





TIC: Z111541.D\data.ms

(9) Phenol (t)

4.381min (-0.005) 4.95ppm m

response 43221

Ion	Exp%	Act%
94.10	100	100
65.10	29.60	30.45
66.10	39.90	36.62
0.00	0.00	0.00

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111542.D
Acq On : 14 Jun 2016 8:00 pm
Operator : seanb1
Sample : ic5571-2
Misc : op94271,ez5571
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 08:56:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 11:33:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	173638	40.00	ppm	0.01
24) Naphthalene-d8	5.562	136	660705	40.00	ppm	0.01
47) Acenaphthene-d10	6.956	164	379584	40.00	ppm	0.02
69) Phenanthrene-d10	8.788	188	660014	40.00	ppm	0.02
83) Chrysene-d12	13.997	240	653013	40.00	ppm	0.04
91) Perylene-d12	17.031	264	563847	40.00	ppm	0.05
101) 1,4-Dichlorobenzene-d4a	4.643	152	173638	40.00	ppm	0.01
103) Phenanthrene-d10a	8.788	188	660014	40.00	ppm	0.02
107) Chrysene-d12a	13.997	240	653013	40.00	ppm	0.04
109) Acenaphthene-d10a	6.956	164	379584	40.00	ppm	0.02
111) Naphthalene-d8a	5.562	136	660705	40.00	ppm	0.01
113) Chrysene-d12b	13.997	240	653013	40.00	ppm	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.649	112	12086	2.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.02%	
8) Phenol-d5	4.370	99	15548	2.05	ppm	0.01
Spiked Amount 50.000			Recovery	=	4.10%	
25) Nitrobenzene-d5	5.043	82	12064	1.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.86%	
51) 2-Fluorobiphenyl	6.358	172	27562	2.25	ppm	0.01
Spiked Amount 50.000			Recovery	=	4.50%	
73) 2,4,6-Tribromophenol	7.821	330	2811	1.92	ppm	0.02
Spiked Amount 50.000			Recovery	=	3.84%	
85) Terphenyl-d14	11.796	244	29419	2.08	ppm	0.03
Spiked Amount 50.000			Recovery	=	4.16%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.175	88	5414	2.14	ppm	91
3) Pyridine	2.511	79	15276	2.21	ppm	95
4) N-Nitrosodimethylamine	2.463	74	7924	2.04	ppm	88
6) Indene	4.830	116	22392	2.18	ppm	91
7) Cumene	4.050	105	31871	2.11	ppm	99
9) Phenol	4.381	94	17460	2.12	ppm	79
10) Aniline	4.397	93	20764	2.29	ppm	96
11) bis(2-Chloroethyl)ether	4.445	93	11538	2.14	ppm	94
12) 2-Chlorophenol	4.488	128	14107	2.21	ppm	96
13) Decane	4.531	43	12122	2.24	ppm	96
14) 1,3-Dichlorobenzene	4.600	146	15321	2.19	ppm	96
15) 1,4-Dichlorobenzene	4.653	146	15581	2.23	ppm	98
16) Benzyl alcohol	4.739	108	8077	2.09	ppm	93
17) 1,2-Dichlorobenzene	4.766	146	14299	2.23	ppm	96
18) Acetophenone	4.931	105	18659	2.25	ppm	97
19) 2-Methylphenol	4.824	108	11816	2.20	ppm	96
20) 2,2'-oxybis(1-Chloropr...	4.846	121	3490	1.99	ppm #	84

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111542.D
Acq On : 14 Jun 2016 8:00 pm
Operator : seanb1
Sample : ic5571-2
Misc : op94271,ez5571
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 08:56:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 11:33:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	4.931	108	12325	2.19	ppm	97
22) n-Nitroso-di-n-propyla...	4.937	70	10168	2.27	ppm	96
23) Hexachloroethane	5.017	201	5165	2.21	ppm	94
26) Nitrobenzene	5.054	77	13099	2.03	ppm	93
27) Quinoline	5.813	129	26732	2.14	ppm	99
28) Isophorone	5.230	82	25769	2.17	ppm	98
29) 2-Nitrophenol	5.289	139	5347	1.81	ppm	78
30) 2,4-Dimethylphenol	5.316	107	12810	2.19	ppm	97
31) Benzoic Acid	5.348	105	2927	0.77	ppm	95
32) bis(2-Chloroethoxy)met...	5.380	93	14123	2.10	ppm	99
33) 2,4-Dichlorophenol	5.460	162	10564	2.06	ppm	94
34) 2,6-Dichlorophenol	5.620	162	10345	2.16	ppm	98
35) 1,3,5-Trichlorobenzene	5.300	180	12544	2.13	ppm	97
36) 1,2,4-Trichlorobenzene	5.524	180	11894	2.13	ppm	96
37) 1,2,3-Trichlorobenzene	5.684	180	11713	2.17	ppm	96
38) Naphthalene	5.578	128	38394	2.18	ppm	98
39) 4-Chloroaniline	5.615	127	16311	2.16	ppm	96
40) 2,3-Dichloroaniline	6.288	161	13610	2.17	ppm	99
41) Caprolactam	5.839	55	5372	2.14	ppm	93
42) Hexachlorobutadiene	5.674	225	6608	2.13	ppm	98
43) 4-Chloro-3-methylphenol	5.957	107	10988	2.03	ppm	98
44) 2-Methylnaphthalene	6.074	141	22169	2.16	ppm	96
45) 1-Methylnaphthalene	6.149	141	23185	2.18	ppm	96
46) Dimethylnaphthalene	6.571	156	23543	2.16	ppm	99
48) Hexachlorocyclopentadiene	6.203	237	13630	4.16	ppm	99
49) 2,4,6-Trichlorophenol	6.288	196	7265	2.08	ppm	95
50) 2,4,5-Trichlorophenol	6.315	196	8009	2.17	ppm	91
52) 2-Chloronaphthalene	6.459	162	25006	2.25	ppm	99
53) Biphenyl	6.438	154	31811	2.21	ppm	97
54) 2-Nitroaniline	6.534	65	5200	1.74	ppm	83
55) Dimethylphthalate	6.689	163	27925	2.18	ppm	98
56) Acenaphthylene	6.822	152	40164	2.18	ppm	99
57) 2,6-Dinitrotoluene	6.742	165	3717	1.58	ppm	85
58) 3-Nitroaniline	6.903	138	4688	1.70	ppm	89
59) Acenaphthene	6.988	153	24894	2.25	ppm	97
60) 2,4-Dinitrophenol	7.004	184	1146	7.57	ppm	81
61) 4-Nitrophenol	7.057	109	2682	1.76	ppm	86
62) Dibenzofuran	7.159	168	35014	2.24	ppm	100
63) 2,4-Dinitrotoluene	7.132	165	4075	1.80	ppm	70
64) 2,3,4,6-Tetrachlorophenol	7.287	232	6243	2.05	ppm	86
65) Diethylphthalate	7.399	149	29203	2.25	ppm	98
66) Fluorene	7.533	166	28356	2.24	ppm	97
67) 4-Chlorophenyl-phenyle...	7.533	204	13395	2.26	ppm	97
68) 4-Nitroaniline	7.538	138	5367	1.82	ppm	92
70) 4,6-Dinitro-2-methylph...	7.586	198	1310	3.06	ppm	90
71) n-Nitrosodiphenylamine	7.672	169	19645	2.16	ppm	99
72) 1,2-Diphenylhydrazine	7.720	77	28270	2.11	ppm	99
74) 4-Bromophenyl-phenylether	8.153	248	7523	2.08	ppm	97
75) Hexachlorobenzene	8.238	284	8610	2.29	ppm	97
76) Pentachlorophenol	8.516	266	7723	3.37	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111542.D
Acq On : 14 Jun 2016 8:00 pm
Operator : seanb1
Sample : ic5571-2
Misc : op94271,ez5571
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 08:56:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 11:33:05 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
77)	Phenanthrene	8.826	178	40586	2.20	ppm	98
78)	Anthracene	8.901	178	41004	2.17	ppm	98
79)	Carbazole	9.168	167	39332	2.15	ppm	98
80)	Di-n-butylphthalate	9.873	149	46065	2.05	ppm	99
81)	Fluoranthene	10.931	202	42627	2.06	ppm	99
82)	Octadecane	8.708	57	16001	2.16	ppm	91
84)	Pyrene	11.369	202	46486	2.06	ppm	97
86)	Butylbenzylphthalate	12.966	149	19952	1.94	ppm	99
87)	Benzo[a]anthracene	13.976	228	43709	2.14	ppm	96
88)	3,3'-Dichlorobenzidine	14.013	252	15046	2.05	ppm	94
89)	Chrysene	14.045	228	40545	2.10	ppm	97
90)	bis(2-Ethylhexyl)phtha...	14.387	149	27935	2.01	ppm	90
92)	Di-n-octylphthalate	15.819	149	48627	2.10	ppm	96
93)	Benzo[b]fluoranthene	16.267	252	41055	2.17	ppm	96
94)	Benzo[k]fluoranthene	16.321	252	40292	2.25	ppm	99
95)	Benzo[a]pyrene	16.898	252	36912	2.19	ppm	97
96)	Indeno[1,2,3-cd]pyrene	18.944	276	32169	2.14	ppm	94
97)	Dibenz(a,h)acridine	18.591	279	29938	2.13	ppm	96
98)	Dibenz[a,h]anthracene	19.008	278	32741	2.14	ppm	96
99)	7,12-Dimethylbenz(a)an...	16.289	256	17142	2.09	ppm	98
100)	Benzo[g,h,i]perylene	19.371	276	33858	2.18	ppm	97

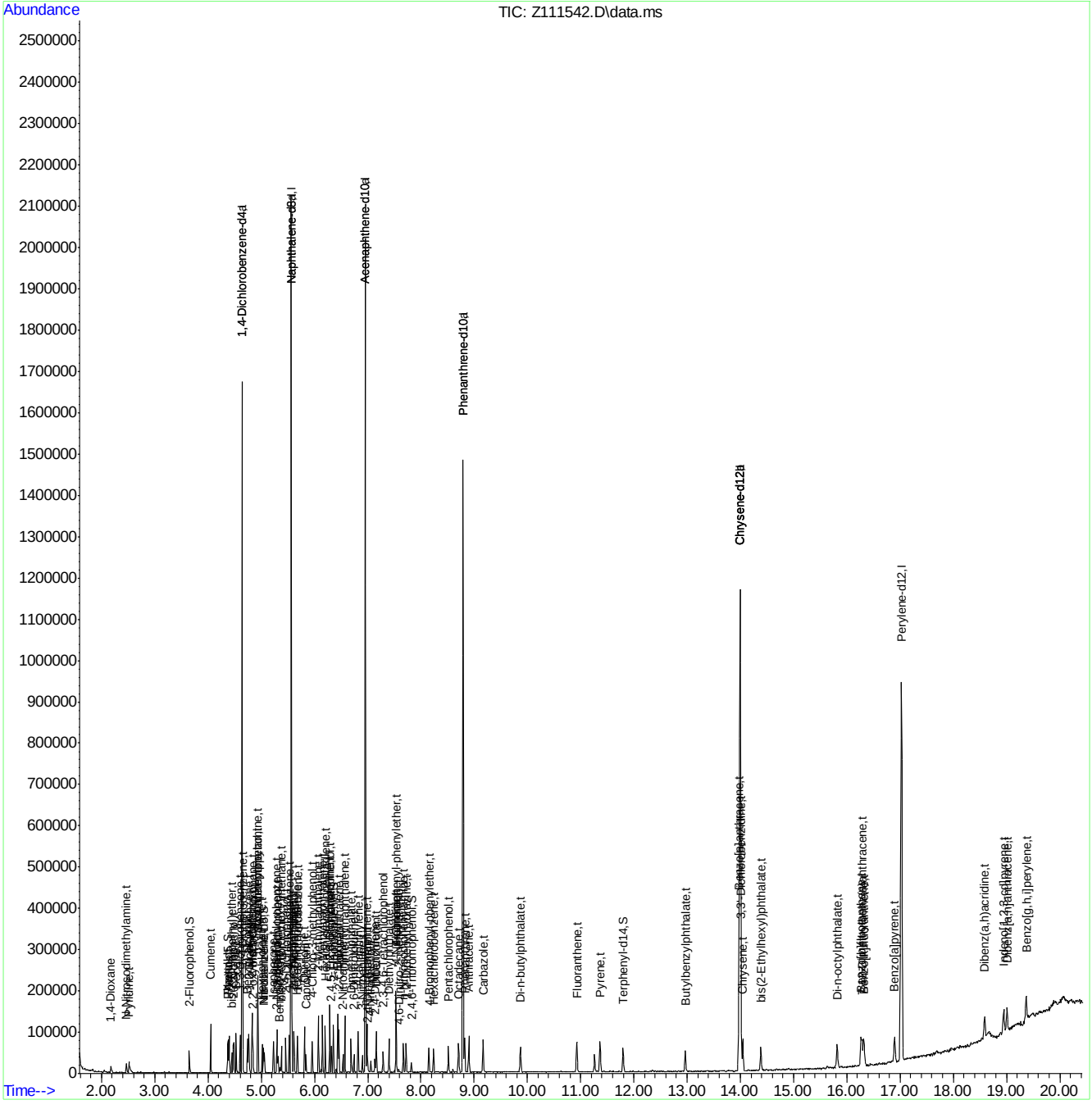
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111542.D
Acq On : 14 Jun 2016 8:00 pm
Operator : seanb1
Sample : ic5571-2
Misc : op94271,ez5571
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 08:56:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 11:33:05 2016
Response via : Initial Calibration



MZ5571.M Fri Jun 17 08:56:58 2016 RTE Page: 4

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/17/16 15:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:12:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	180874	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	682876	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	394408	40.00	ppm	0.00
69) Phenanthrene-d10	8.789	188	675196	40.00	ppm	0.00
83) Chrysene-d12	13.997	240	673081	40.00	ppm	0.00
91) Perylene-d12	17.026	264	575390	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.643	152	180874	40.00	ppm	0.00
103) Phenanthrene-d10a	8.789	188	675196	40.00	ppm	0.00
107) Chrysene-d12a	13.997	240	673081	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	394408	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	682876	40.00	ppm	0.00
113) Chrysene-d12b	13.997	240	673081	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.649	112	6833	1.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.22%	
8) Phenol-d5	4.370	99	8861	1.14	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.28%	
25) Nitrobenzene-d5	5.044	82	6571	1.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.04%	
51) 2-Fluorobiphenyl	6.358	172	15030	1.22	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.44%	
73) 2,4,6-Tribromophenol	7.822	330	1307	0.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.72%	
85) Terphenyl-d14	11.796	244	15160	1.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.10%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.175	88	2616	0.98	ppm	84
3) Pyridine	2.522	79	6941	0.96	ppm	86
4) N-Nitrosodimethylamine	2.469	74	4099	1.01	ppm	90
6) Indene	4.830	116	12472	1.20	ppm	99
7) Cumene	4.050	105	17165	1.11	ppm	98
9) Phenol	4.381	94	8817	1.03	ppm	77
10) Aniline	4.397	93	10946	1.20	ppm	72
11) bis(2-Chloroethyl)ether	4.445	93	5945	1.07	ppm	94
12) 2-Chlorophenol	4.488	128	7123	1.09	ppm	95
13) Decane	4.531	43	6558	1.20	ppm	91
14) 1,3-Dichlorobenzene	4.600	146	8253	1.16	ppm	96
15) 1,4-Dichlorobenzene	4.654	146	8629	1.23	ppm	98
16) Benzyl alcohol	4.739	108	4467	1.13	ppm	88
17) 1,2-Dichlorobenzene	4.766	146	7719	1.19	ppm	93
18) Acetophenone	4.931	105	9940	1.19	ppm	97
19) 2-Methylphenol	4.825	108	6254	1.14	ppm	100
20) 2,2'-oxybis(1-Chloropr...	4.841	121	2240	1.28	ppm #	63

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:12:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	4.931	108	6487	1.13	ppm		95
22) n-Nitroso-di-n-propyla...	4.937	70	5222	1.15	ppm		93
23) Hexachloroethane	5.017	201	2567	1.06	ppm	#	75
26) Nitrobenzene	5.054	77	6963	1.06	ppm		95
27) Quinoline	5.813	129	13747	1.08	ppm		95
28) Isophorone	5.225	82	13275	1.10	ppm		94
29) 2-Nitrophenol	5.289	139	2504	0.80	ppm		75
30) 2,4-Dimethylphenol	5.316	107	6713	1.13	ppm		97
31) Benzoic Acid	5.348	105	1824m	0.51	ppm		
32) bis(2-Chloroethoxy)met...	5.380	93	7544	1.10	ppm		96
33) 2,4-Dichlorophenol	5.460	162	5808	1.12	ppm		96
34) 2,6-Dichlorophenol	5.621	162	5176	1.06	ppm		94
35) 1,3,5-Trichlorobenzene	5.300	180	7120	1.21	ppm		91
36) 1,2,4-Trichlorobenzene	5.524	180	6045	1.06	ppm		88
37) 1,2,3-Trichlorobenzene	5.685	180	6340	1.17	ppm		95
38) Naphthalene	5.578	128	21022	1.19	ppm		97
39) 4-Chloroaniline	5.610	127	8743	1.15	ppm		91
40) 2,3-Dichloroaniline	6.288	161	7483	1.19	ppm		93
41) Caprolactam	5.834	55	2777	1.09	ppm		97
42) Hexachlorobutadiene	5.674	225	3865	1.25	ppm		96
43) 4-Chloro-3-methylphenol	5.952	107	5622	1.01	ppm		96
44) 2-Methylnaphthalene	6.075	141	11812	1.14	ppm		94
45) 1-Methylnaphthalene	6.149	141	12363	1.16	ppm		97
46) Dimethylnaphthalene	6.571	156	12495	1.14	ppm		99
48) Hexachlorocyclopentadiene	6.203	237	6770	2.01	ppm		97
49) 2,4,6-Trichlorophenol	6.288	196	3967	1.12	ppm		95
50) 2,4,5-Trichlorophenol	6.315	196	3865	1.02	ppm		94
52) 2-Chloronaphthalene	6.454	162	13528	1.22	ppm		96
53) Biphenyl	6.438	154	17277	1.19	ppm		99
54) 2-Nitroaniline	6.534	65	2538	0.80	ppm		81
55) Dimethylphthalate	6.689	163	14637	1.12	ppm		99
56) Acenaphthylene	6.817	152	21405	1.15	ppm		98
57) 2,6-Dinitrotoluene	6.742	165	1851	0.73	ppm		97
58) 3-Nitroaniline	6.897	138	1893	0.63	ppm	#	70
59) Acenaphthene	6.983	153	13033	1.17	ppm		95
61) 4-Nitrophenol	7.058	109	1044	0.63	ppm	#	75
62) Dibenzofuran	7.159	168	18261	1.16	ppm		97
63) 2,4-Dinitrotoluene	7.132	165	1530	0.45	ppm		67
64) 2,3,4,6-Tetrachlorophenol	7.287	232	3031	0.95	ppm		92
65) Diethylphthalate	7.400	149	14983	1.13	ppm		97
66) Fluorene	7.533	166	15143	1.19	ppm		97
67) 4-Chlorophenyl-phenyle...	7.533	204	7194	1.21	ppm		97
68) 4-Nitroaniline	7.538	138	2203	0.69	ppm		83
71) n-Nitrosodiphenylamine	7.667	169	10248	1.12	ppm		93
72) 1,2-Diphenylhydrazine	7.720	77	15366	1.15	ppm		95
74) 4-Bromophenyl-phenylether	8.147	248	3983	1.10	ppm		90
75) Hexachlorobenzene	8.238	284	3950	1.04	ppm		95
76) Pentachlorophenol	8.516	266	3534	1.47	ppm		96
77) Phenanthrene	8.821	178	20798	1.13	ppm		96
78) Anthracene	8.901	178	21262	1.13	ppm		98

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:12:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	Carbazole	9.162	167	21112	1.16	ppm	99
80)	Di-n-butylphthalate	9.868	149	23359	1.02	ppm	96
81)	Fluoranthene	10.925	202	22235	1.07	ppm	97
82)	Octadecane	8.703	57	8008	1.07	ppm	93
84)	Pyrene	11.363	202	24446	1.06	ppm	98
86)	Butylbenzylphthalate	12.966	149	10940	1.04	ppm	94
87)	Benzo[a]anthracene	13.970	228	24531	1.20	ppm	98
88)	3,3'-Dichlorobenzidine	14.013	252	7846	1.04	ppm	87
89)	Chrysene	14.045	228	22280	1.15	ppm	97
90)	bis(2-Ethylhexyl)phtha...	14.382	149	14851	1.04	ppm	97
92)	Di-n-octylphthalate	15.819	149	25047	1.08	ppm	96
93)	Benzo[b]fluoranthene	16.262	252	22021	1.17	ppm	95
94)	Benzo[k]fluoranthene	16.321	252	21216	1.20	ppm	93
95)	Benzo[a]pyrene	16.893	252	20055	1.20	ppm	97
96)	Indeno[1,2,3-cd]pyrene	18.944	276	17602	1.18	ppm	95
97)	Dibenz(a,h)acridine	18.586	279	16316	1.17	ppm	99
98)	Dibenz[a,h]anthracene	19.008	278	18006	1.18	ppm	98
99)	7,12-Dimethylbenz(a)an...	16.289	256	8576	1.03	ppm	84
100)	Benzo[g,h,i]perylene	19.366	276	18165	1.17	ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.73

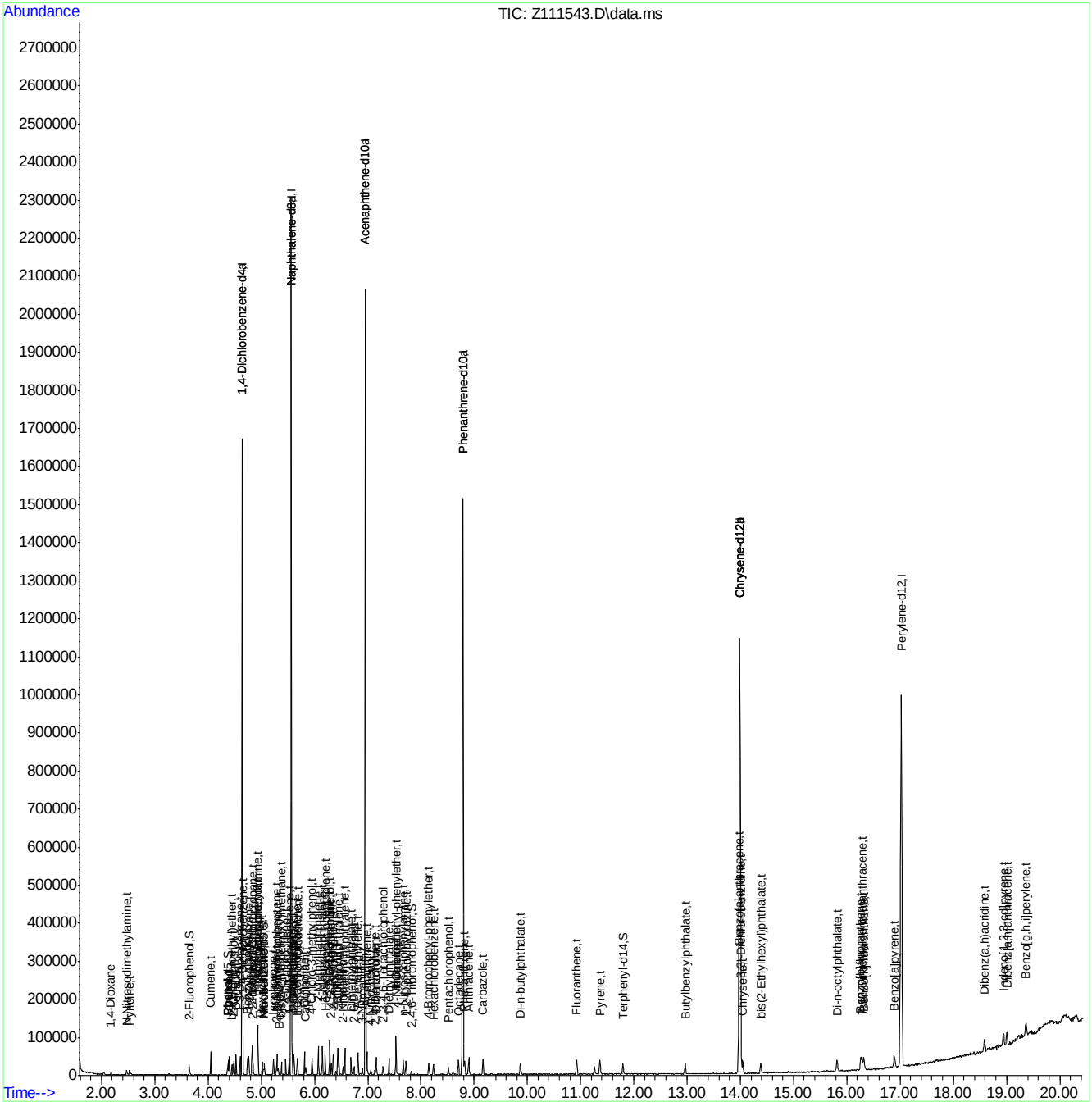
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:12:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 08:42:49 2016 RTE Page: 4

Manual Integration Approval Summary

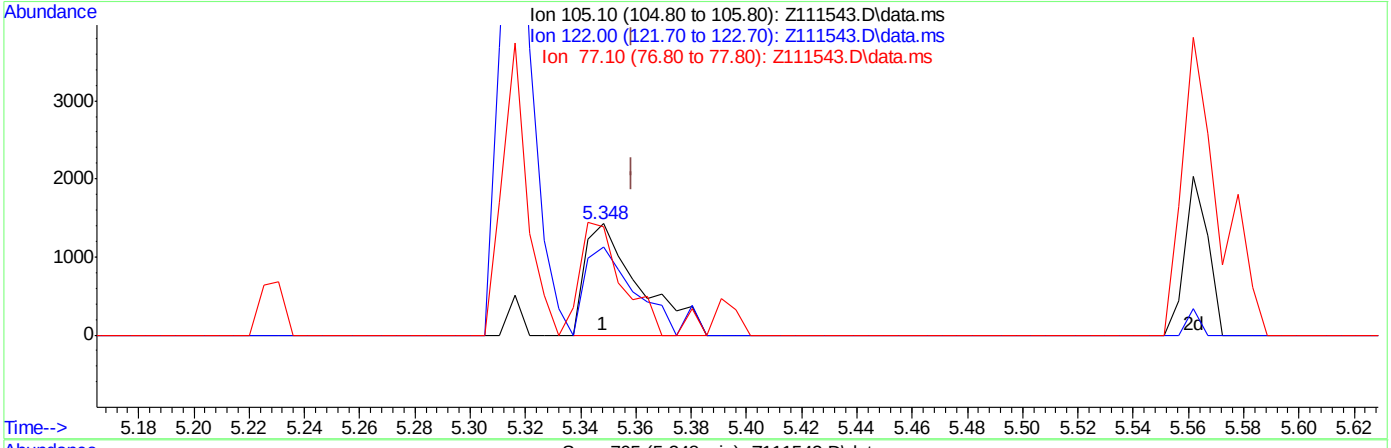
Sample Number:	EZ5571-IC5571	**Method:**	SW846 8270D
Lab FileID:	Z111543.D	**Analyst approved:**	06/15/16 08:31 Arielle Cocozza
Injection Time:	06/14/16 20:30	**Supervisor approved:**	06/17/16 15:33 Nina Pandya

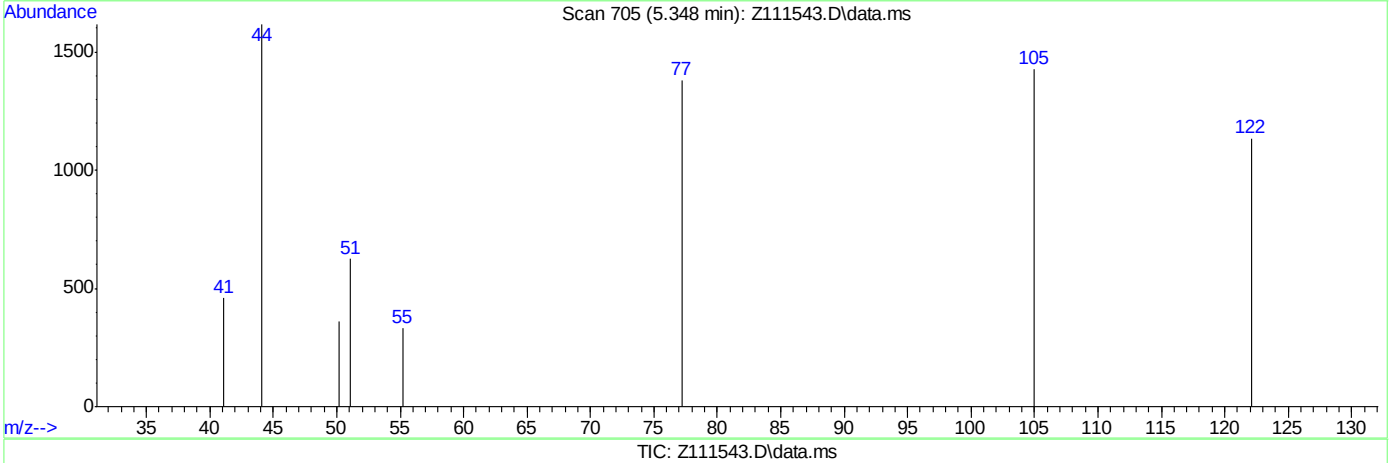
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic Acid	65-85-0		5.35	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:11:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration





TIC: Z111543.D\data.ms

(31) Benzoic Acid

5.348min (-0.011) 0.54ppm

response 1943

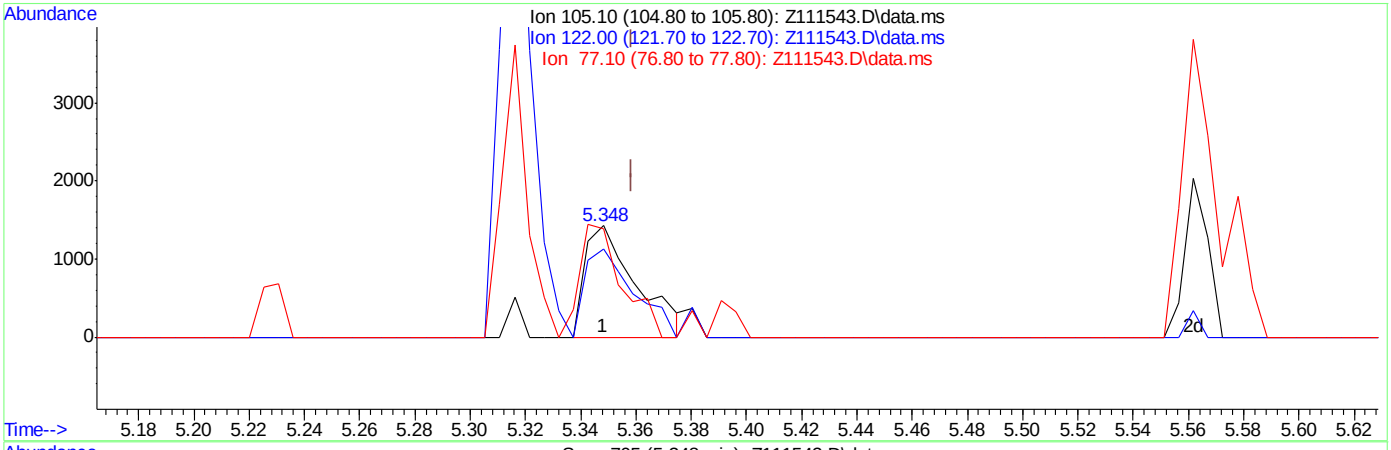
Ion	Exp%	Act%
105.10	100	100
122.00	72.90	79.40
77.10	73.60	84.23
0.00	0.00	0.00

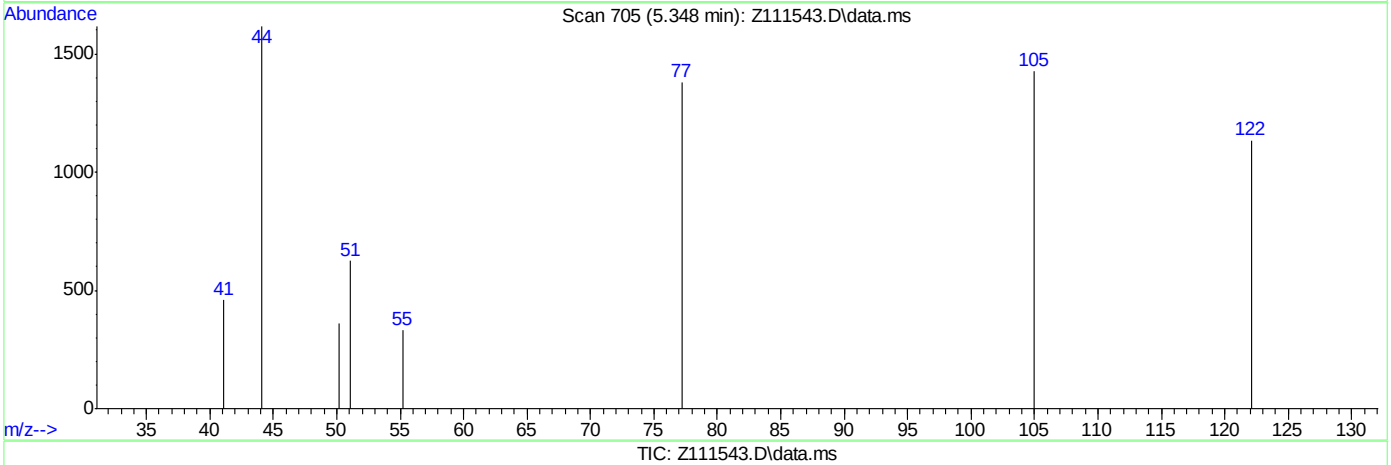
SGS ACCUTEST JC23443

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ez5571\
Data File : Z111543.D
Acq On : 14 Jun 2016 8:30 pm
Operator : seanb1
Sample : ic5571-1
Misc : op94271,ez5571
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 08:11:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:10:54 2016
Response via : Initial Calibration





TIC: Z111543.D\data.ms

(31) Benzoic Acid

5.348min (-0.011) 0.51ppm m

response 1824

Ion	Exp%	Act%
105.10	100	100
122.00	72.90	79.40
77.10	73.60	96.71#
0.00	0.00	0.00

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111545.D
Acq On : 15 Jun 2016 8:19 am
Operator : ariellec
Sample : ic5573-100
Misc : op94271,ez5573
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 08:42:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:41:40 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	168263	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	656372	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	373356	40.00	ppm	0.00
69) Phenanthrene-d10	8.789	188	608560	40.00	ppm	0.00
83) Chrysene-d12	13.992	240	592249	40.00	ppm	0.00
91) Perylene-d12	17.021	264	527157	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.643	152	168263	40.00	ppm	0.00
103) Phenanthrene-d10a	8.789	188	608560	40.00	ppm	0.00
107) Chrysene-d12a	13.992	240	592249	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	373356	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	656372	40.00	ppm	0.00
113) Chrysene-d12b	13.992	240	592249	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
104) 1-chlorooctadecane	10.915	57	386949	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
105) o-terphenyl	9.456	230	737287	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
Target Compounds						Qvalue
102) Benzaldehyde	4.317	105	330208	99.78	ppm	97
106) Atrazine	8.404	215	145136	100.00	ppm	86
108) Benzidine	11.262	184	427995	100.00	ppm	98
110) 1,2,4,5-Tetrachloroben...	6.208	216	422412	100.00	ppm	99
112) Hydroquinone	5.856	110	489258	100.00	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.74

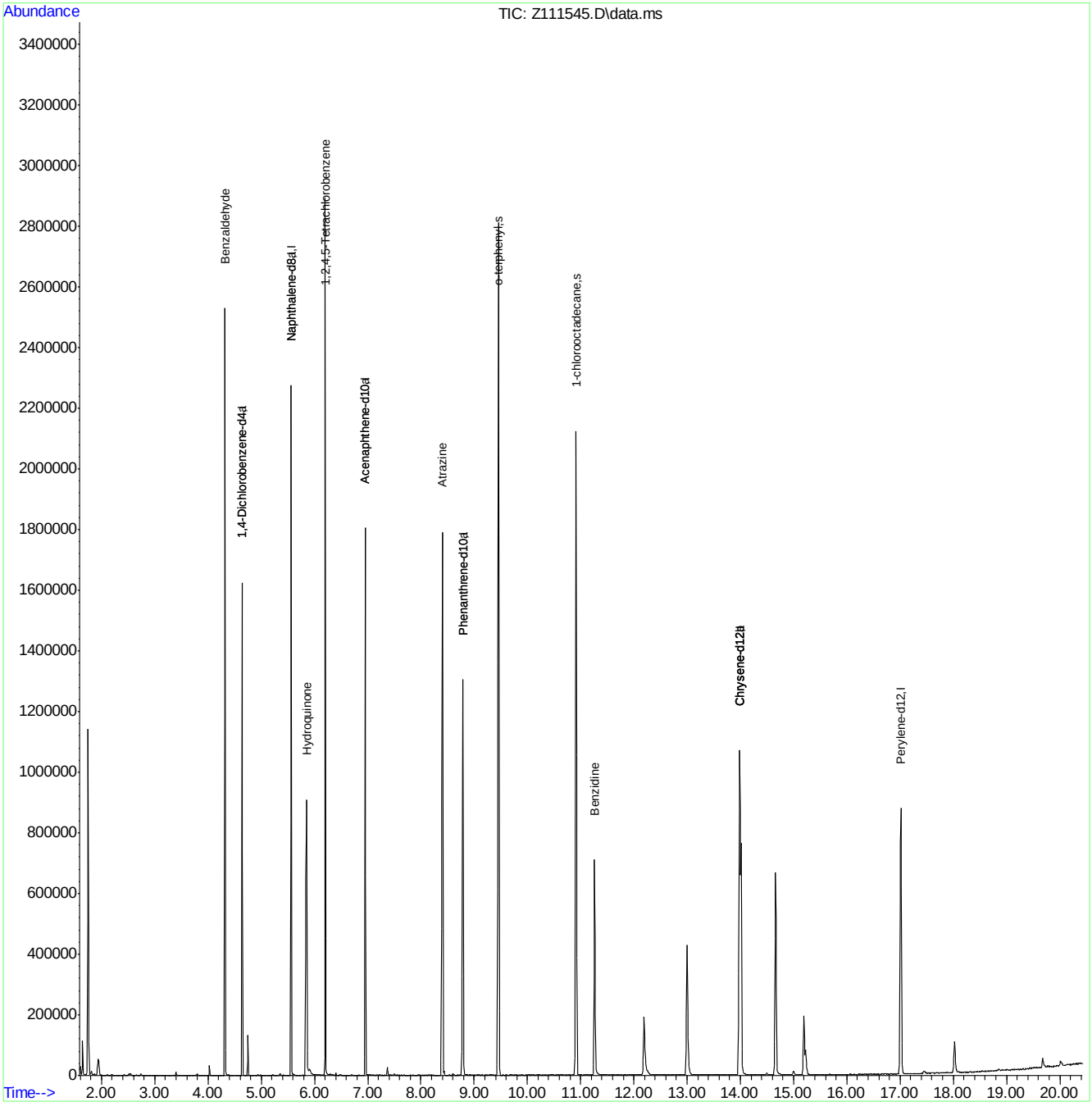
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111545.D
Acq On : 15 Jun 2016 8:19 am
Operator : ariellec
Sample : ic5573-100
Misc : op94271,ez5573
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 15 08:42:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 08:41:40 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 08:42:09 2016 RTE

Page: 2

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111546.D
Acq On : 15 Jun 2016 8:48 am
Operator : ariellec
Sample : ic5573-80
Misc : op94271,ez5573
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 09:19:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 09:18:40 2016
Response via : Initial Calibration

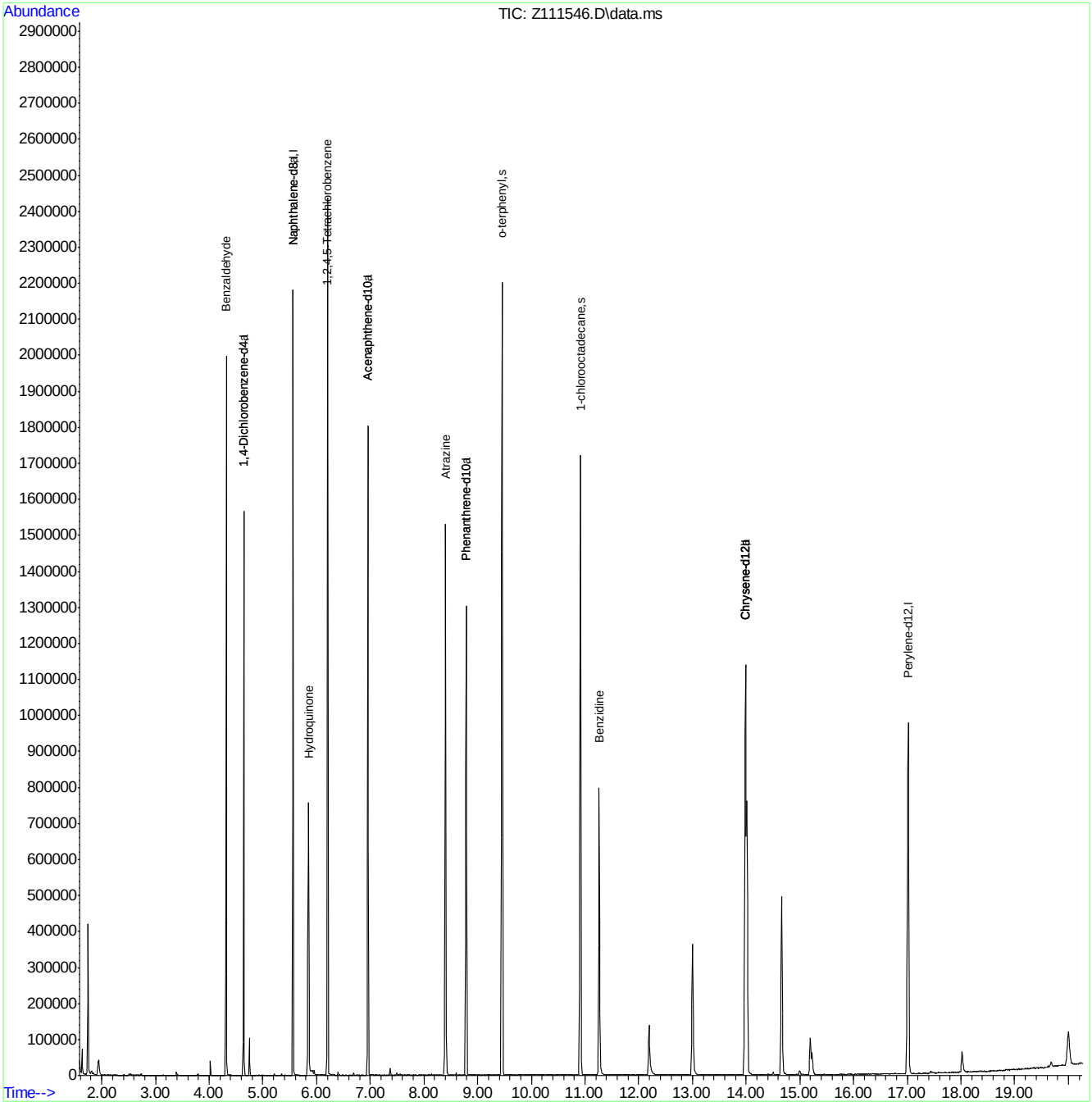
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	167894	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	634586	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	363250	40.00	ppm	0.00
69) Phenanthrene-d10	8.788	188	607375	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	628309	40.00	ppm	-0.01
91) Perylene-d12	17.015	264	569334	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	167894	40.00	ppm	0.00
103) Phenanthrene-d10a	8.788	188	607375	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	628309	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	363250	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	634586	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	628309	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
104) 1-chlorooctadecane	10.915	57	317642	81.11	ppm	0.00
Spiked Amount 50.000			Recovery = 162.22%			
105) o-terphenyl	9.456	230	604951	81.09	ppm	0.00
Spiked Amount 50.000			Recovery = 162.18%			
Target Compounds						Qvalue
102) Benzaldehyde	4.317	105	291691	83.96	ppm	95
106) Atrazine	8.404	215	119257	81.15	ppm	90
108) Benzidine	11.262	184	458246	89.25	ppm	98
110) 1,2,4,5-Tetrachloroben...	6.203	216	337543	81.05	ppm	98
112) Hydroquinone	5.850	110	384204	80.61	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111546.D
Acq On : 15 Jun 2016 8:48 am
Operator : ariellec
Sample : ic5573-80
Misc : op94271,ez5573
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 15 09:19:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 09:18:40 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 09:19:26 2016 RTE

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111547.D
Acq On : 15 Jun 2016 9:17 am
Operator : ariellec
Sample : icc5573-50
Misc : op94271,ez5573
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 09:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 09:54:00 2016
Response via : Initial Calibration

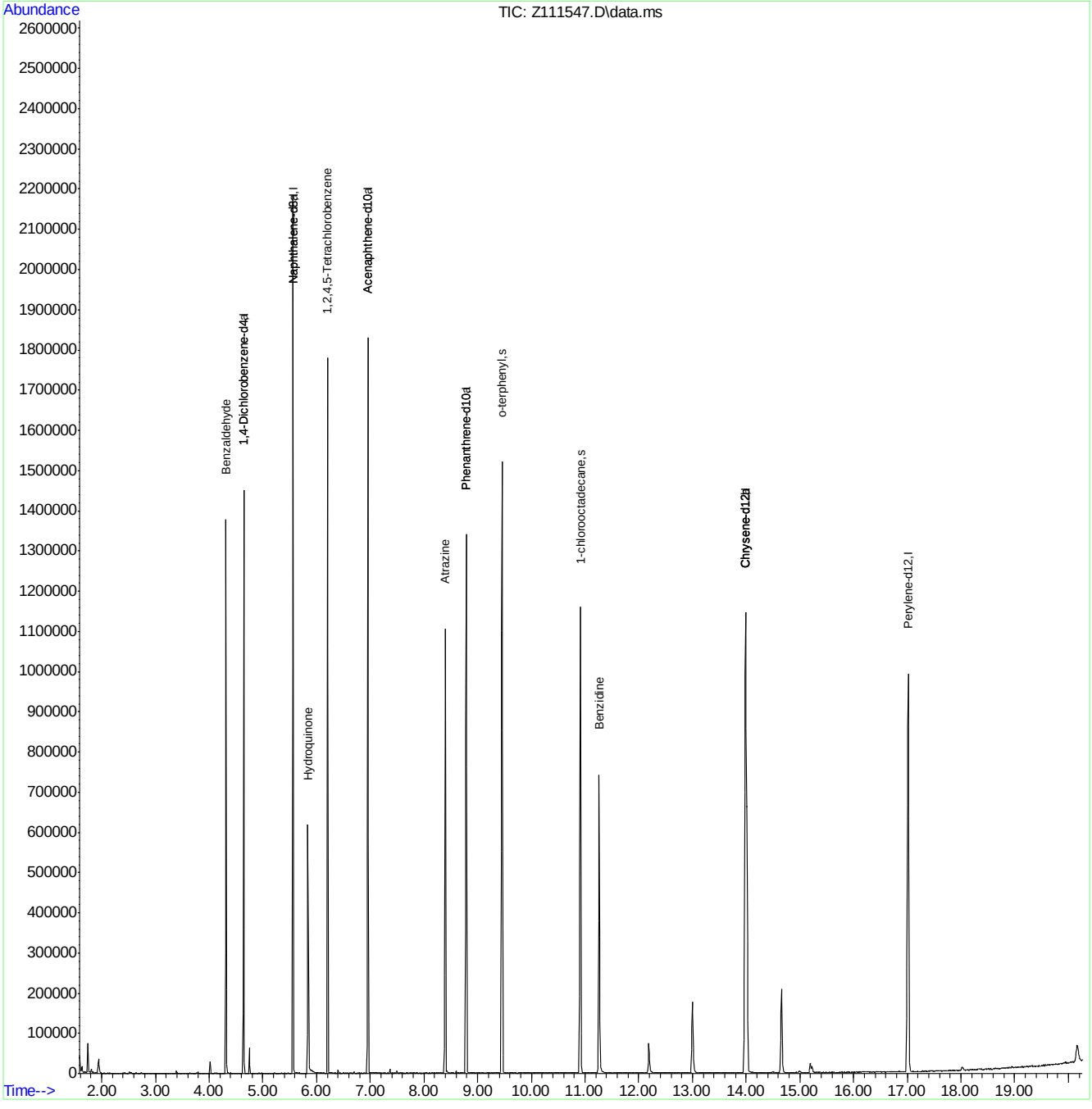
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	165199	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	635468	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	368761	40.00	ppm	0.00
69) Phenanthrene-d10	8.789	188	635147	40.00	ppm	0.00
83) Chrysene-d12	13.987	240	643097	40.00	ppm	-0.01
91) Perylene-d12	17.016	264	589351	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	165199	40.00	ppm	0.00
103) Phenanthrene-d10a	8.789	188	635147	40.00	ppm	0.00
107) Chrysene-d12a	13.987	240	643097	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	368761	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	635468	40.00	ppm	0.00
113) Chrysene-d12b	13.987	240	643097	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
104) 1-chlorooctadecane	10.915	57	211960	51.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.32%	
105) o-terphenyl	9.451	230	408894	51.58	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.16%	
Target Compounds						Qvalue
102) Benzaldehyde	4.312	105	205573	56.33	ppm	100
106) Atrazine	8.399	215	78057	50.52	ppm	100
108) Benzidine	11.262	184	414986	66.19	ppm	100
110) 1,2,4,5-Tetrachloroben...	6.203	216	224312	52.00	ppm	100
112) Hydroquinone	5.840	110	249538	51.50	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111547.D
Acq On : 15 Jun 2016 9:17 am
Operator : ariellec
Sample : icc5573-50
Misc : op94271,ez5573
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 15 09:54:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 09:54:00 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 09:55:04 2016 RTE

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111548.D
Acq On : 15 Jun 2016 9:47 am
Operator : ariellec
Sample : ic5573-25
Misc : op94271,ez5573
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 10:14:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 10:14:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	169252	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	651814	40.00	ppm	0.00
47) Acenaphthene-d10	6.956	164	384304	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	654774	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	661066	40.00	ppm	-0.01
91) Perylene-d12	17.015	264	609419	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	169252	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	654774	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	661066	40.00	ppm	0.00
109) Acenaphthene-d10a	6.956	164	384304	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	651814	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	661066	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
104) 1-chlorooctadecane	10.909	57	107679	25.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	50.32%	
105) o-terphenyl	9.451	230	213615	25.85	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.70%	
Target Compounds						Qvalue
102) Benzaldehyde	4.311	105	110533	28.27	ppm	99
106) Atrazine	8.393	215	39868	25.02	ppm	97
108) Benzidine	11.256	184	261991	35.15	ppm	99
110) 1,2,4,5-Tetrachloroben...	6.203	216	118861	26.06	ppm	99
112) Hydroquinone	5.839	110	122823	24.78	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.77

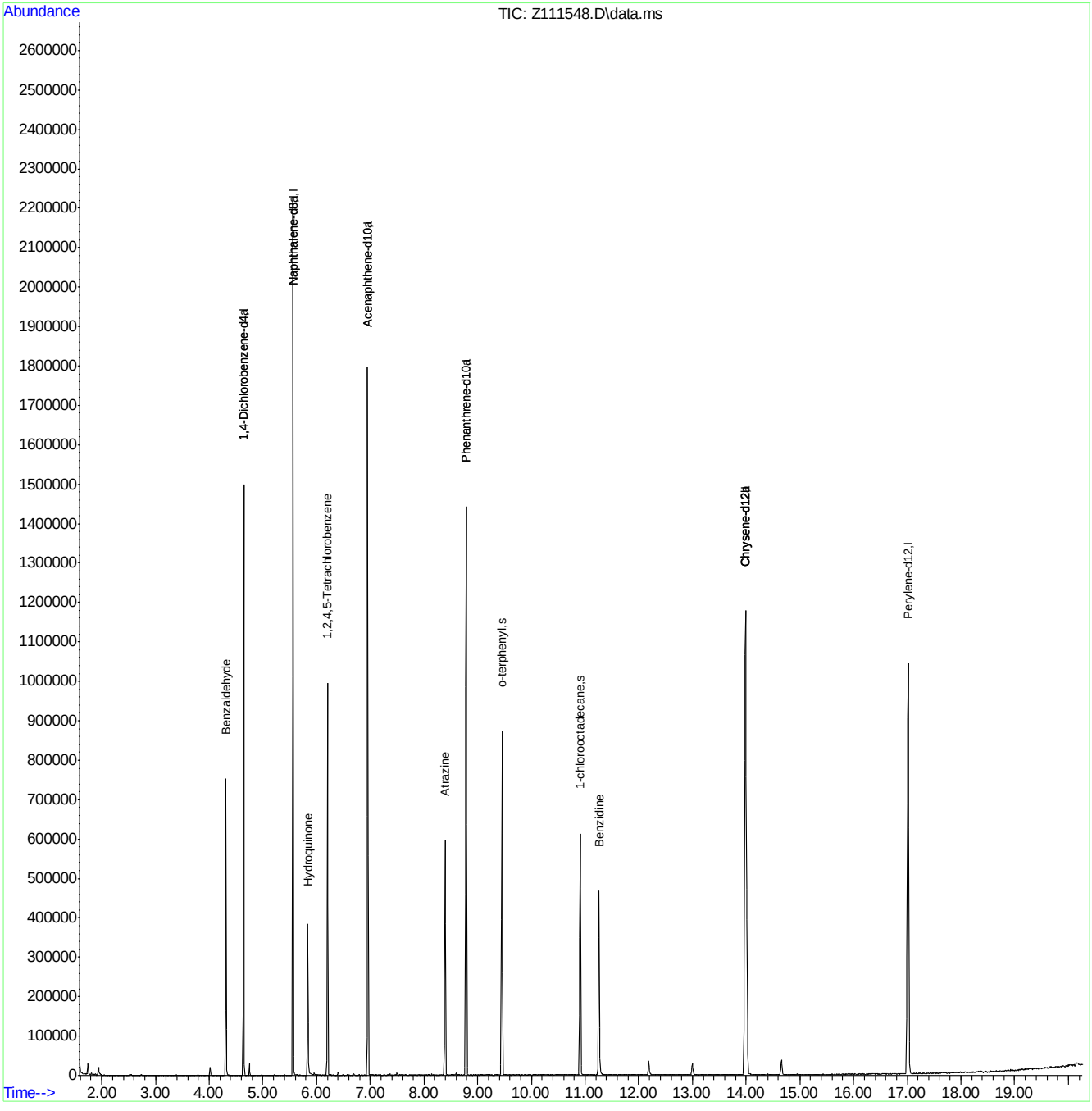
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111548.D
Acq On : 15 Jun 2016 9:47 am
Operator : ariellec
Sample : ic5573-25
Misc : op94271,ez5573
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 15 10:14:57 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 10:14:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111549.D
Acq On : 15 Jun 2016 10:16 am
Operator : ariellec
Sample : ic5573-10
Misc : op94271,ez5573
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 10:53:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 10:53:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	172403	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	656368	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	385346	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	650591	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	659696	40.00	ppm	-0.01
91) Perylene-d12	17.015	264	603598	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	172403	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	650591	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	659696	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	385346	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	656368	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	659696	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
104) 1-chlorooctadecane	10.904	57	44570	10.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.76%	
105) o-terphenyl	9.451	230	93144	11.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	22.10%	
Target Compounds						Qvalue
102) Benzaldehyde	4.312	105	47584	11.50	ppm	98
106) Atrazine	8.388	215	17102	10.63	ppm	94
108) Benzidine	11.257	184	110392	13.53	ppm	98
110) 1,2,4,5-Tetrachloroben...	6.203	216	51774	11.03	ppm	99
112) Hydroquinone	5.834	110	43664	8.79	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.78

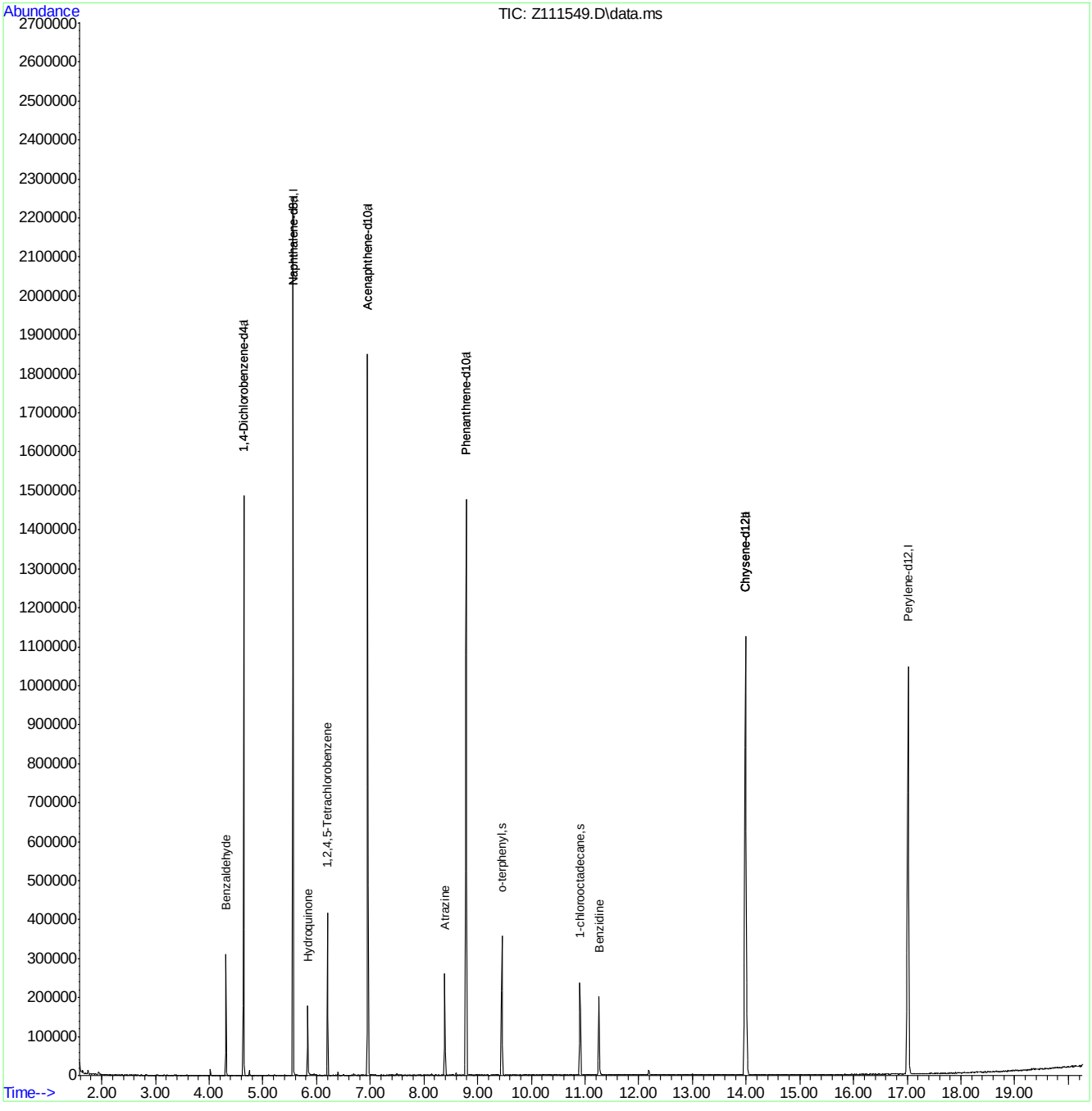
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111549.D
Acq On : 15 Jun 2016 10:16 am
Operator : ariellec
Sample : ic5573-10
Misc : op94271,ez5573
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 10:53:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 10:53:04 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111550.D
Acq On : 15 Jun 2016 10:46 am
Operator : ariellec
Sample : ic5573-5
Misc : op94271,ez5573
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 11:08:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 11:08:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	177819	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	678641	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	397513	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	680866	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	693017	40.00	ppm	-0.01
91) Perylene-d12	17.016	264	637256	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	177819	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	680866	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	693017	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	397513	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	678641	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	693017	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
104) 1-chlorooctadecane	10.904	57	20336	4.60	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.20%	
105) o-terphenyl	9.446	230	43873	4.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.96%	
Target Compounds						Qvalue
102) Benzaldehyde	4.312	105	23578	5.43	ppm	97
106) Atrazine	8.388	215	7853	4.72	ppm	95
108) Benzidine	11.257	184	50265	5.70	ppm	99
110) 1,2,4,5-Tetrachloroben...	6.203	216	25487	5.22	ppm	100
112) Hydroquinone	5.834	110	19412	3.87	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.79

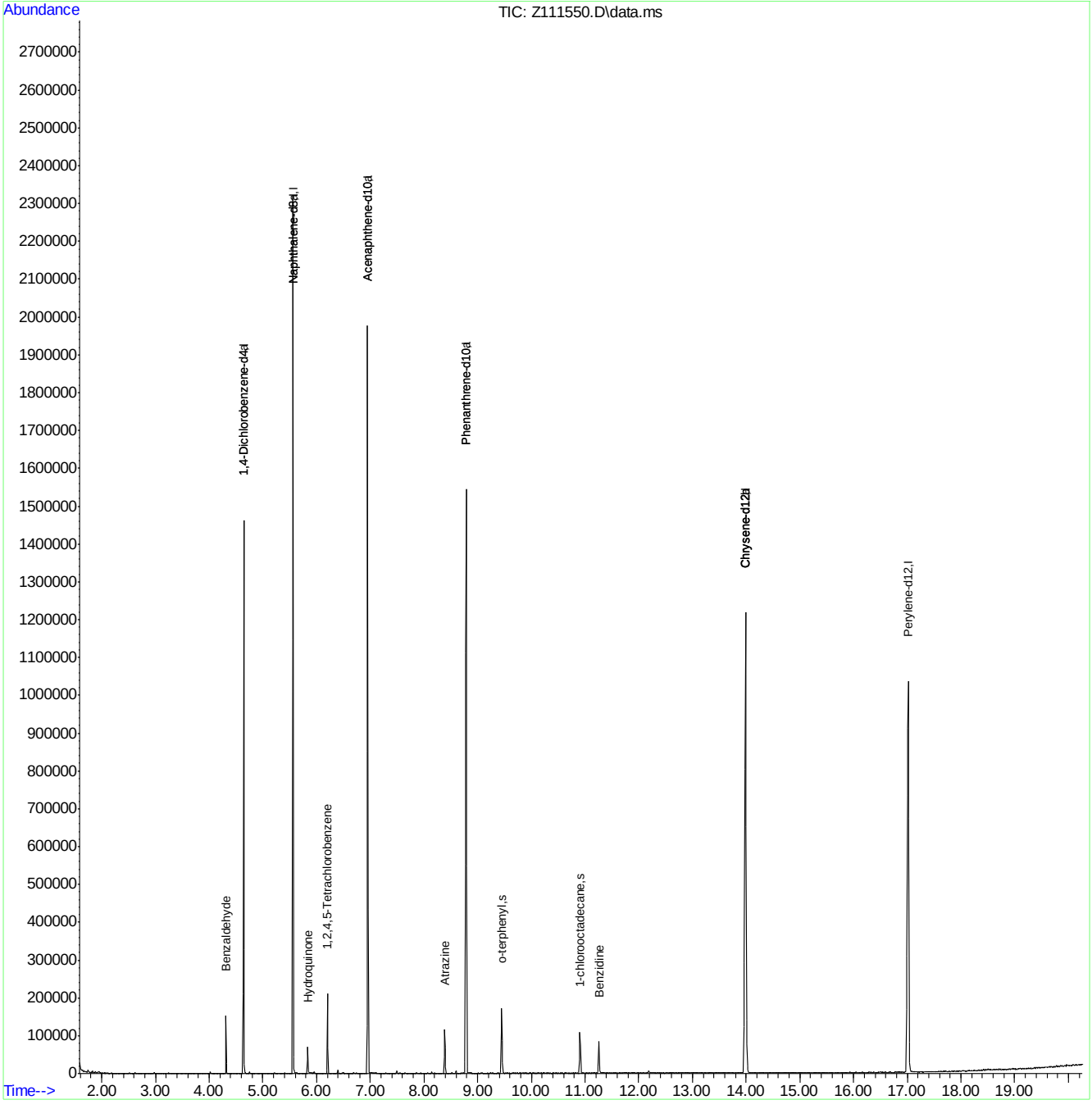
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111550.D
Acq On : 15 Jun 2016 10:46 am
Operator : ariellec
Sample : ic5573-5
Misc : op94271,ez5573
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 15 11:08:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 11:08:21 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 11:08:51 2016 RTE Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111551.D
Acq On : 15 Jun 2016 11:16 am
Operator : ariellec
Sample : ic5573-2
Misc : op94271,ez5573
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 17:09:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 11:08:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	180048	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	680752	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	391464	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	667613	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	682353	40.00	ppm	-0.01
91) Perylene-d12	17.016	264	629531	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	180048	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	667613	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	682353	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	391464	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	680752	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	682353	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
104) 1-chlorooctadecane	10.909	57	9663	2.23	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.46%	
105) o-terphenyl	9.446	230	20800	2.41	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.82%	
Target Compounds						Qvalue
102) Benzaldehyde	4.317	105	11117	2.53	ppm	97
106) Atrazine	8.388	215	3470	2.13	ppm	80
108) Benzidine	11.257	184	6474	0.75	ppm	91
110) 1,2,4,5-Tetrachloroben...	6.203	216	11910	2.48	ppm	90
112) Hydroquinone	5.834	110	7628	1.51	ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.80

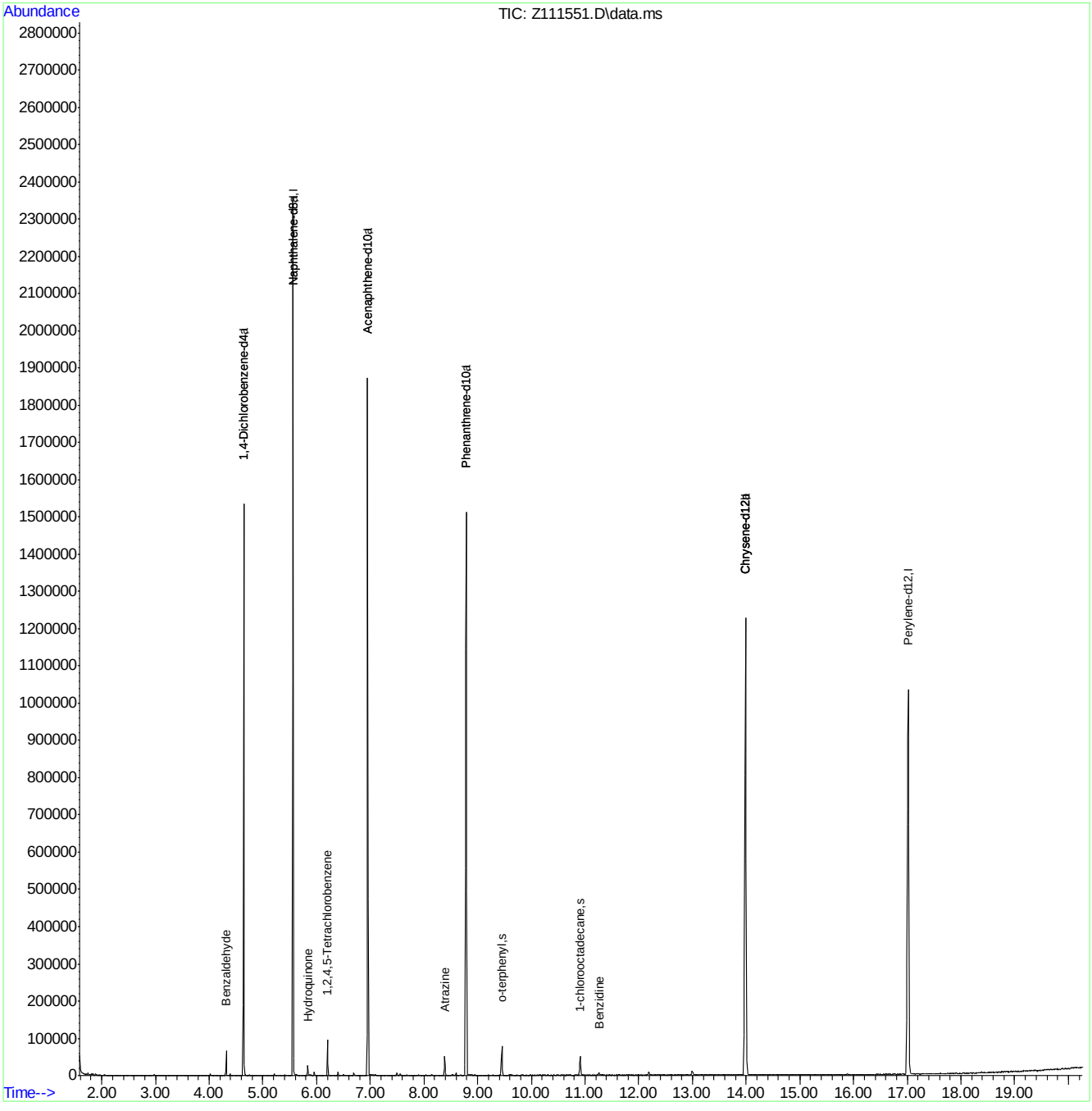
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111551.D
Acq On : 15 Jun 2016 11:16 am
Operator : ariellec
Sample : ic5573-2
Misc : op94271,ez5573
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 17 17:09:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 11:08:21 2016
Response via : Initial Calibration



MZ5571.M Fri Jun 17 17:09:47 2016 RTE Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111552.D
Acq On : 15 Jun 2016 11:46 am
Operator : ariellec
Sample : ic5573-1
Misc : op94271,ez5573
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 12:14:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:14:29 2016
Response via : Initial Calibration

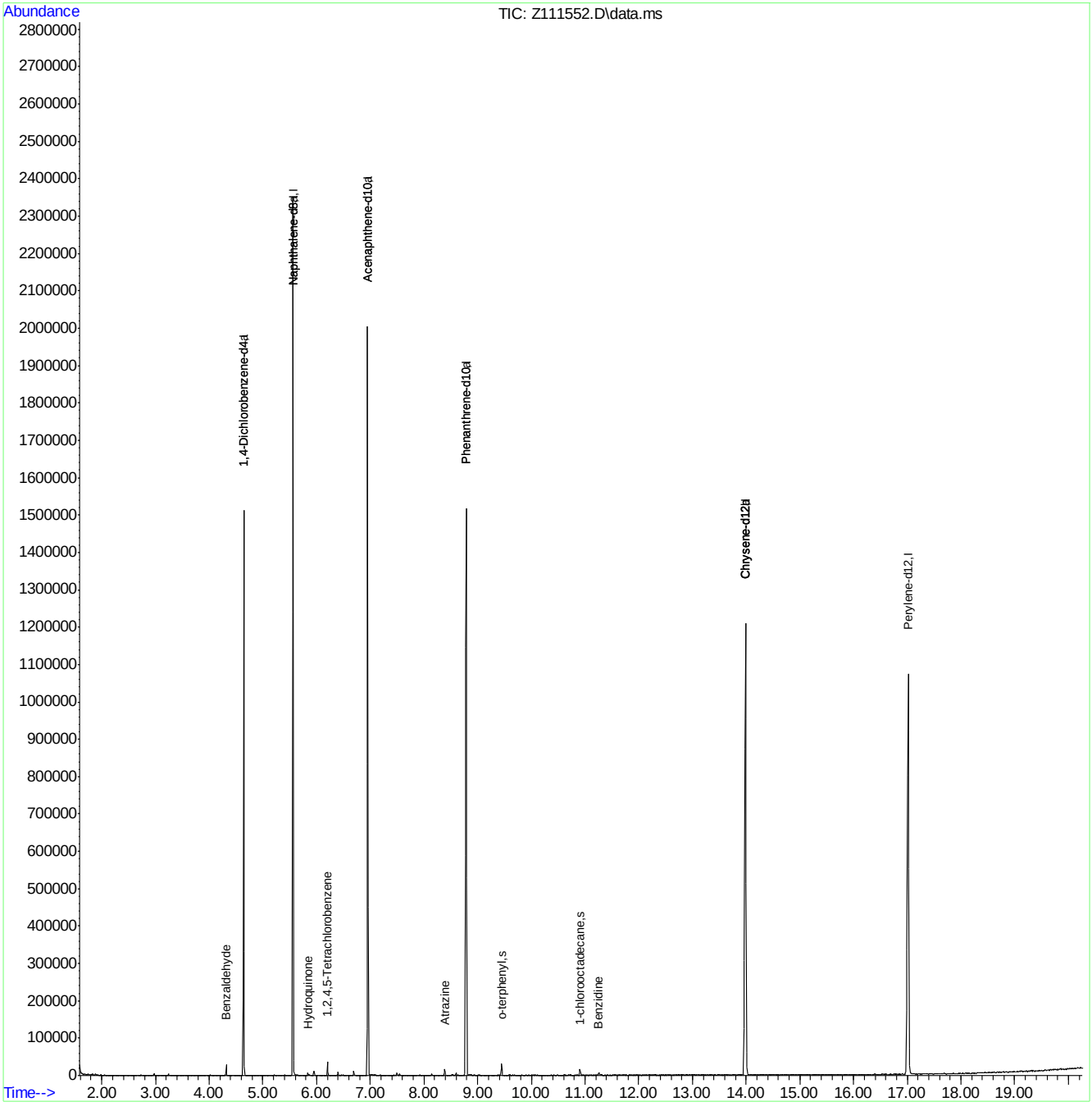
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	177205	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	687772	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	404763	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	682094	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	689110	40.00	ppm	-0.01
91) Perylene-d12	17.015	264	632115	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	177205	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	682094	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	689110	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	404763	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	687772	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	689110	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
104) 1-chlorooctadecane	10.909	57	3516	0.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.60%	
105) o-terphenyl	9.446	230	8578	0.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.90%	
Target Compounds						Qvalue
102) Benzaldehyde	4.317	105	4614	1.02	ppm	89
106) Atrazine	8.388	215	1531	0.92	ppm #	66
108) Benzidine	11.251	184	6538	0.84	ppm	95
110) 1,2,4,5-Tetrachloroben...	6.203	216	4912	0.96	ppm	94
112) Hydroquinone	5.840	110	1970	0.43	ppm	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111552.D
Acq On : 15 Jun 2016 11:46 am
Operator : ariellec
Sample : ic5573-1
Misc : op94271,ez5573
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 15 12:14:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:14:29 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111554.D
Acq On : 15 Jun 2016 12:45 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 15 13:43:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	200835	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	760904	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	427146	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	708933	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	674293	40.00	ppm	-0.01
91) Perylene-d12	17.015	264	599680	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	200835	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	708933	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	674293	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	427146	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	760904	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	674293	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.655	112	319318	46.00	ppm	0.00
Spiked Amount 50.000			Recovery = 92.00%			
8) Phenol-d5	4.370	99	391549	44.59	ppm	0.00
Spiked Amount 50.000			Recovery = 89.18%			
25) Nitrobenzene-d5	5.044	82	334097	46.43	ppm	0.00
Spiked Amount 50.000			Recovery = 92.86%			
51) 2-Fluorobiphenyl	6.352	172	645163	46.73	ppm	0.00
Spiked Amount 50.000			Recovery = 93.46%			
73) 2,4,6-Tribromophenol	7.816	330	67540	42.89	ppm	0.00
Spiked Amount 50.000			Recovery = 85.78%			
85) Terphenyl-d14	11.796	244	632830	43.35	ppm	0.00
Spiked Amount 50.000			Recovery = 86.70%			
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.82

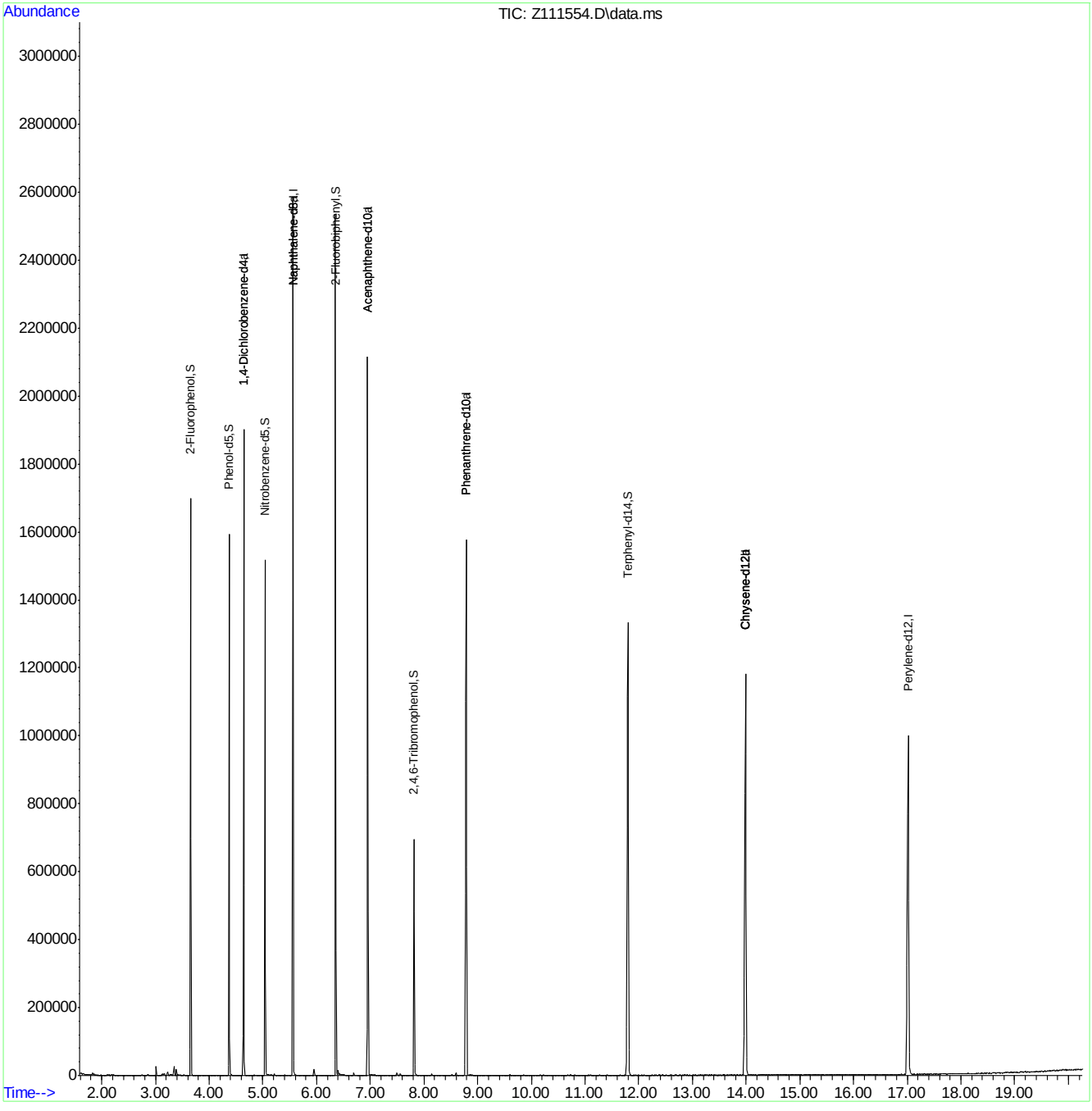
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111554.D
Acq On : 15 Jun 2016 12:45 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 15 13:43:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



MZ5571.M Wed Jun 15 13:43:48 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111555.D
Acq On : 15 Jun 2016 1:15 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 15 13:46:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	163735	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	655318	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	366826	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	633994	40.00	ppm	0.00
83) Chrysene-d12	13.981	240	624233	40.00	ppm	-0.02
91) Perylene-d12	17.010	264	559531	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.643	152	163735	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	633994	40.00	ppm	0.00
107) Chrysene-d12a	13.981	240	624233	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	366826	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	655318	40.00	ppm	0.00
113) Chrysene-d12b	13.981	240	624233	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
3) Pyridine	2.581	79	315933	48.38	ppm	99
10) Aniline	4.402	93	460953	53.80	ppm	64
16) Benzyl alcohol	4.744	108	186404	51.25	ppm	100
39) 4-Chloroaniline	5.615	127	337397	45.08	ppm	100
44) 2-Methylnaphthalene	6.074	141	449841	44.22	ppm	99
54) 2-Nitroaniline	6.534	65	134783	46.68	ppm	92
58) 3-Nitroaniline	6.903	138	129783	48.74	ppm	93
62) Dibenzofuran	7.159	168	714777	47.28	ppm	99
68) 4-Nitroaniline	7.549	138	127879	44.80	ppm	95
79) Carbazole	9.168	167	792797	45.08	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.83

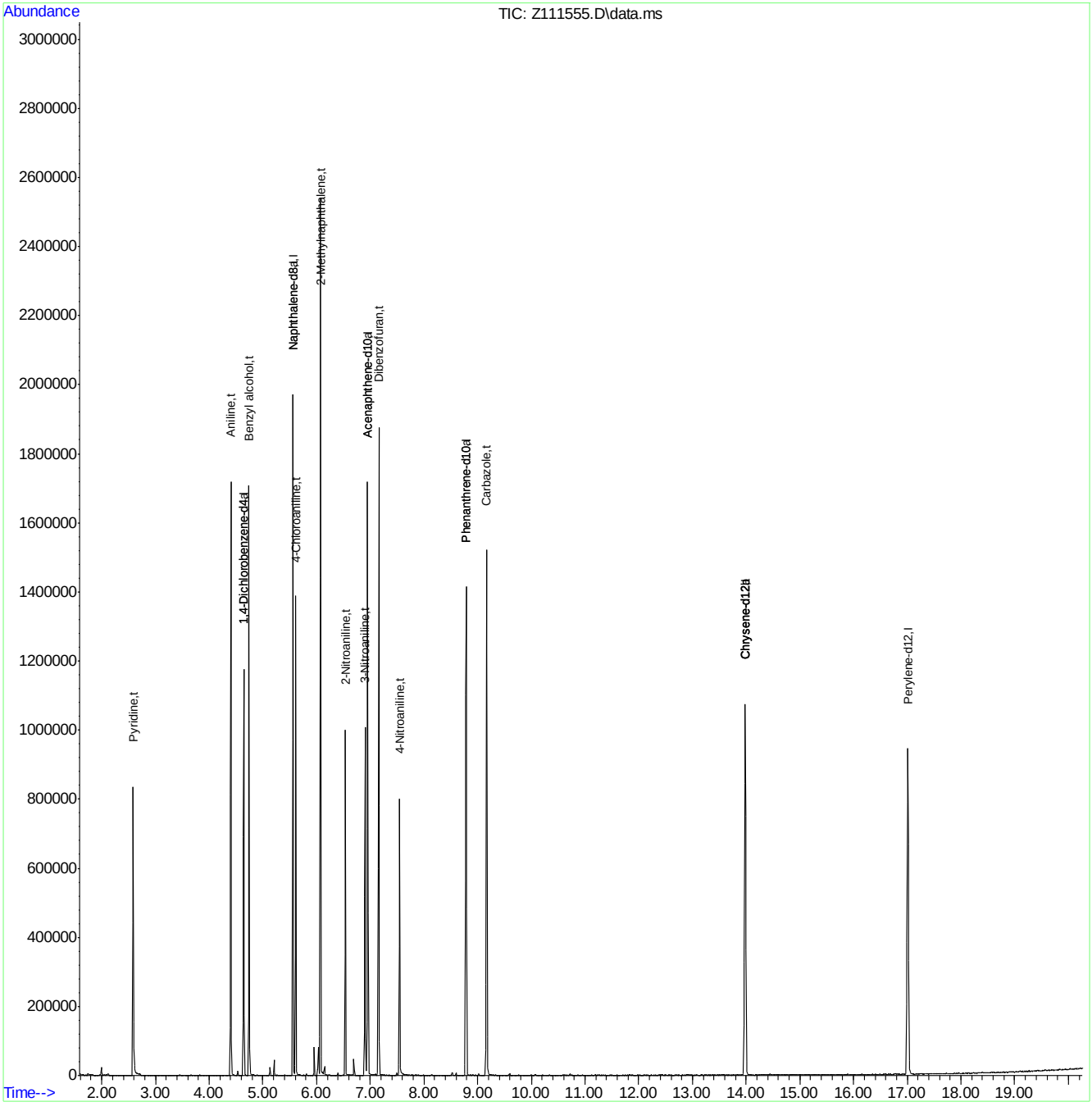
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111555.D
Acq On : 15 Jun 2016 1:15 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 15 13:46:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111558.D
Acq On : 15 Jun 2016 2:44 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 16 09:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:20:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	174078	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	658609	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	384147	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	658295	40.00	ppm	0.00
83) Chrysene-d12	13.986	240	680207	40.00	ppm	-0.01
91) Perylene-d12	17.016	264	626712	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.643	152	174078	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	658295	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	680207	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	384147	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	658609	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	680207	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
88) 3,3'-Dichlorobenzidine	14.013	252	318654	41.58	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.84

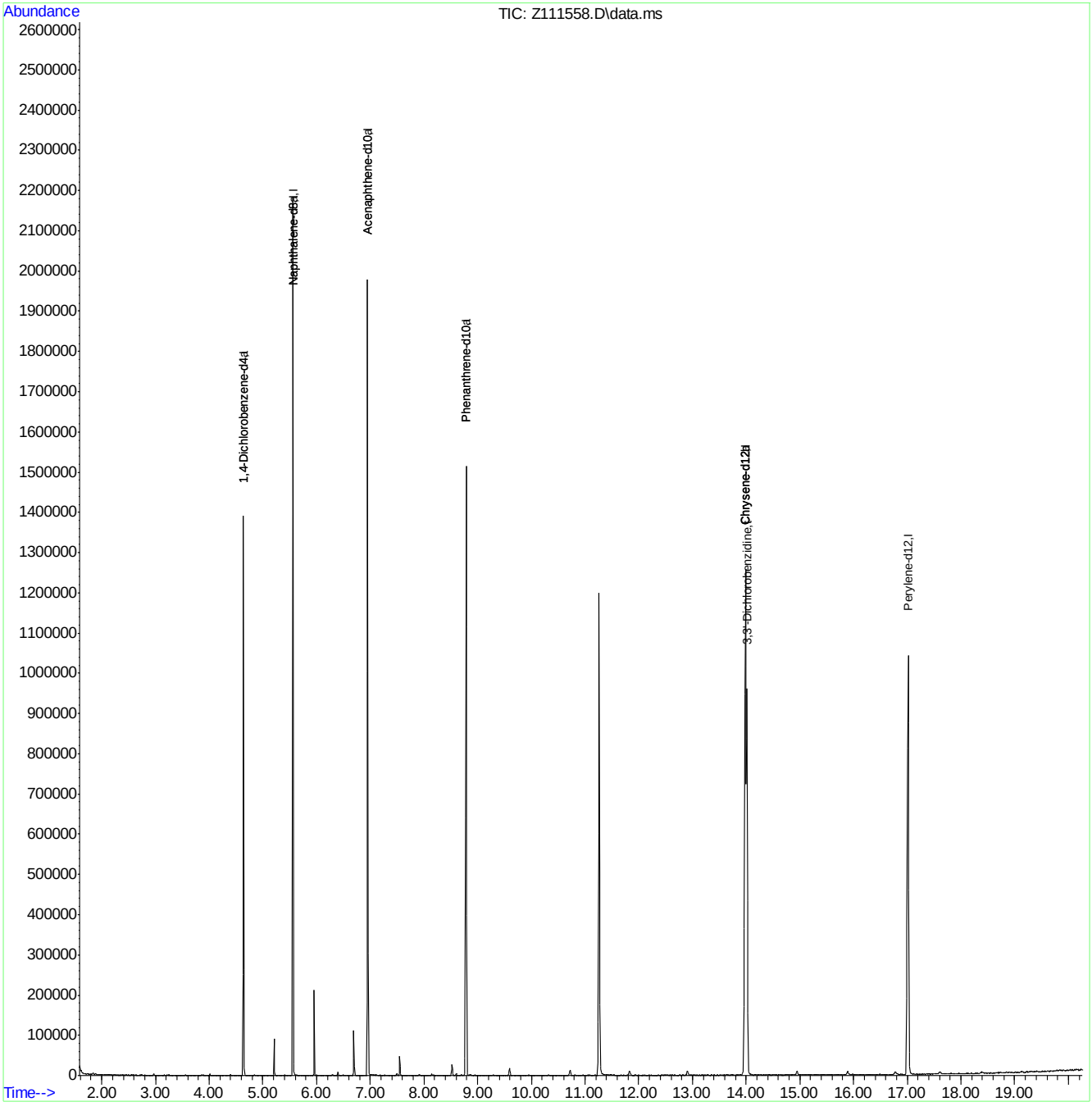
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111558.D
Acq On : 15 Jun 2016 2:44 pm
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5573
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 16 09:36:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:20:46 2016
Response via : Initial Calibration



MZ5571.M Thu Jun 16 09:36:38 2016 RTE

Page: 2

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111559.D
Acq On : 15 Jun 2016 3:14 pm
Operator : ariellec
Sample : icv5573-50
Misc : op94271,ez5573
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 16 09:26:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

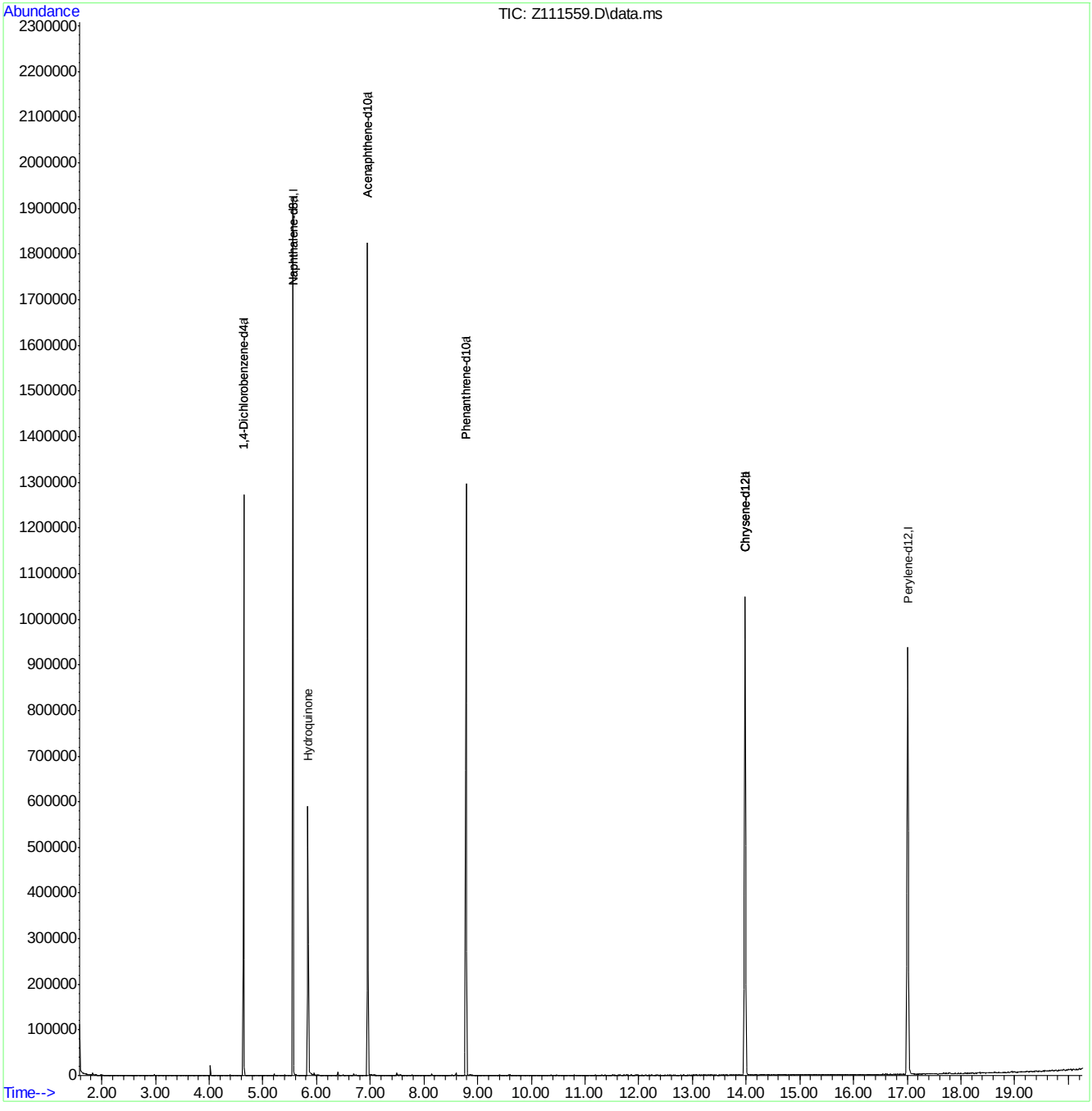
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.643	152	163732	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	612950	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	346397	40.00	ppm	0.00
69) Phenanthrene-d10	8.783	188	584973	40.00	ppm	0.00
83) Chrysene-d12	13.981	240	585907	40.00	ppm	-0.02
91) Perylene-d12	17.010	264	543275	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.643	152	163732	40.00	ppm	0.00
103) Phenanthrene-d10a	8.783	188	584973	40.00	ppm	0.00
107) Chrysene-d12a	13.981	240	585907	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	346397	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	612950	40.00	ppm	0.00
113) Chrysene-d12b	13.981	240	585907	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
112) Hydroquinone	5.840	110	256704	61.76	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5573\
Data File : Z111559.D
Acq On : 15 Jun 2016 3:14 pm
Operator : ariellec
Sample : icv5573-50
Misc : op94271,ez5573
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 16 09:26:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



MZ5571.M Thu Jun 16 09:43:49 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111561.D
Acq On : 15 Jun 2016 5:03 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 09:45:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.637	152	177942	40.00	ppm	0.00
24) Naphthalene-d8	5.556	136	634443	40.00	ppm	0.00
47) Acenaphthene-d10	6.945	164	377693	40.00	ppm	-0.01
69) Phenanthrene-d10	8.778	188	635554	40.00	ppm	-0.01
83) Chrysene-d12	13.976	240	625061	40.00	ppm	-0.02
91) Perylene-d12	17.005	264	559166	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.637	152	177942	40.00	ppm	0.00
103) Phenanthrene-d10a	8.778	188	635554	40.00	ppm	0.00
107) Chrysene-d12a	13.976	240	625061	40.00	ppm	-0.01
109) Acenaphthene-d10a	6.945	164	377693	40.00	ppm	0.00
111) Naphthalene-d8a	5.556	136	634443	40.00	ppm	0.00
113) Chrysene-d12b	13.976	240	625061	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
9) Phenol	4.381	94	371300	43.94	ppm	94
12) 2-Chlorophenol	4.483	128	300615	45.98	ppm	95
19) 2-Methylphenol	4.819	108	262559	47.65	ppm	99
21) 3&4-Methylphenol	4.931	108	272572	47.26	ppm	99
29) 2-Nitrophenol	5.284	139	154248	54.40	ppm	92
30) 2,4-Dimethylphenol	5.311	107	284280	50.66	ppm	99
31) Benzoic Acid	5.396	105	203302	56.03	ppm	96
33) 2,4-Dichlorophenol	5.455	162	225411	45.80	ppm	98
34) 2,6-Dichlorophenol	5.615	162	217212	47.30	ppm	98
43) 4-Chloro-3-methylphenol	5.946	107	245530	47.35	ppm	90
49) 2,4,6-Trichlorophenol	6.283	196	170411	49.09	ppm	99
50) 2,4,5-Trichlorophenol	6.310	196	158810	43.21	ppm	100
60) 2,4-Dinitrophenol	6.993	184	61163	55.99	ppm #	68
61) 4-Nitrophenol	7.058	109	82784	54.46	ppm	97
64) 2,3,4,6-Tetrachlorophenol	7.282	232	139706	46.02	ppm	98
70) 4,6-Dinitro-2-methylph...	7.576	198	99537	51.17	ppm	97
76) Pentachlorophenol	8.505	266	116107	52.60	ppm	99

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111561.D
Acq On : 15 Jun 2016 5:03 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 09:45:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

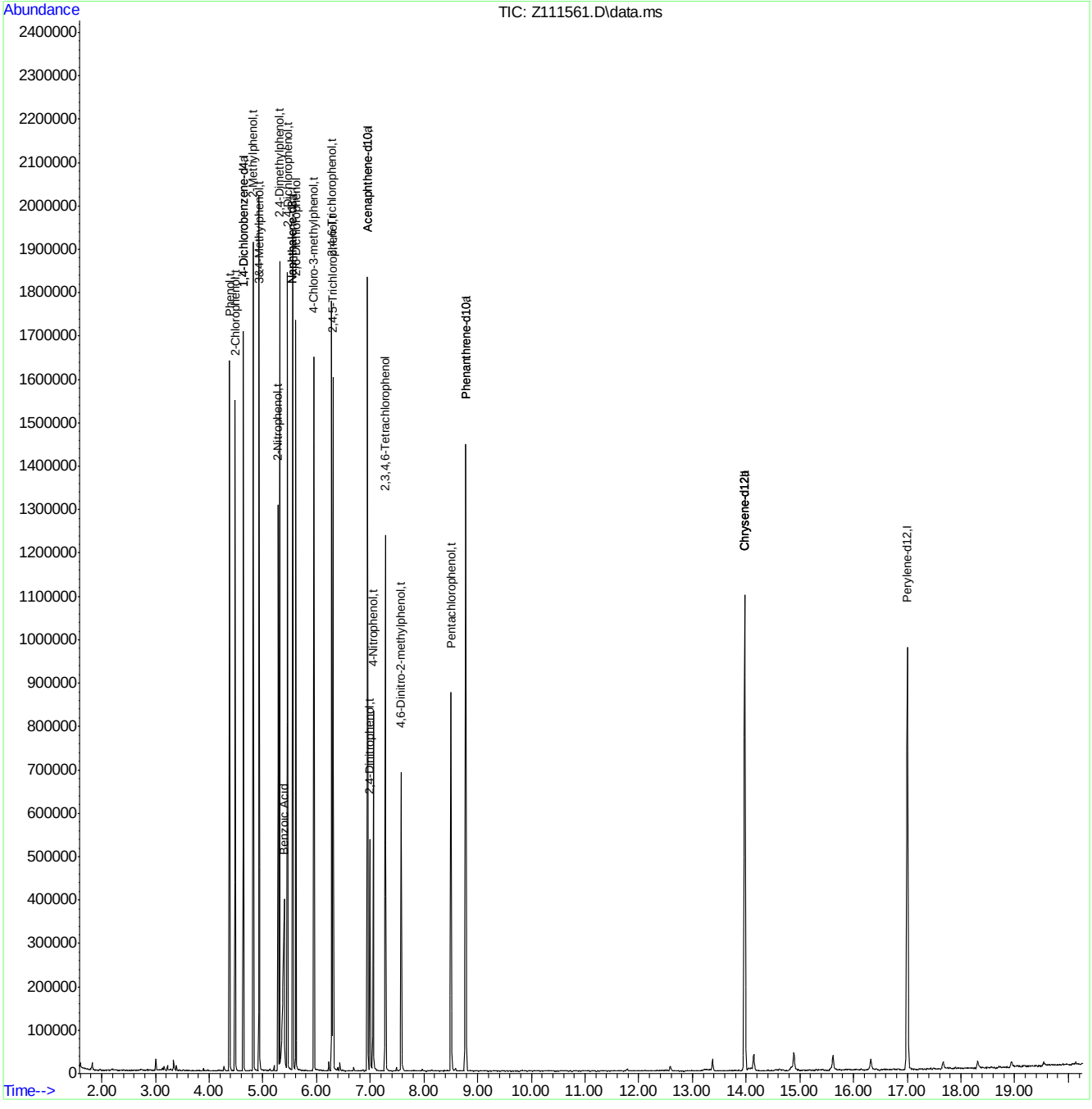
7.6.86

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111561.D
Acq On : 15 Jun 2016 5:03 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 09:45:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111562.D
Acq On : 15 Jun 2016 5:33 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 09:55:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:33:31 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.637	152	171765	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	628315	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	360539	40.00	ppm	0.00
69) Phenanthrene-d10	8.778	188	610746	40.00	ppm	-0.01
83) Chrysene-d12	13.986	240	547371	40.00	ppm	-0.01
91) Perylene-d12	17.005	264	493230	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.637	152	171765	40.00	ppm	0.00
103) Phenanthrene-d10a	8.778	188	610746	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	547371	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	360539	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	628315	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	547371	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.463	74	162707	42.38	ppm	98
11) bis(2-Chloroethyl)ether	4.440	93	263100	49.30	ppm	96
14) 1,3-Dichlorobenzene	4.600	146	313009	45.20	ppm	99
15) 1,4-Dichlorobenzene	4.653	146	298543	43.27	ppm	99
17) 1,2-Dichlorobenzene	4.766	146	288271	45.37	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.840	121	72152	41.54	ppm	93
22) n-Nitroso-di-n-propyla...	4.931	70	192567	43.48	ppm	99
23) Hexachloroethane	5.011	201	103525	44.73	ppm	93
26) Nitrobenzene	5.054	77	275751	44.88	ppm	95
28) Isophorone	5.225	82	505596	44.70	ppm	98
32) bis(2-Chloroethoxy)met...	5.380	93	300077	46.85	ppm	98
36) 1,2,4-Trichlorobenzene	5.519	180	240313	45.17	ppm	97
38) Naphthalene	5.572	128	721550	43.14	ppm	99
42) Hexachlorobutadiene	5.668	225	133630	45.26	ppm	98
48) Hexachlorocyclopentadiene	6.197	237	134998	43.38	ppm	99
52) 2-Chloronaphthalene	6.448	162	483013	45.83	ppm	95
55) Dimethylphthalate	6.689	163	524983	43.21	ppm	100

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111562.D
Acq On : 15 Jun 2016 5:33 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 09:55:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:33:31 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56)	Acenaphthylene	6.812	152	732378	41.94	ppm	100
57)	2,6-Dinitrotoluene	6.742	165	110476	49.51	ppm	99
59)	Acenaphthene	6.983	153	448676	42.78	ppm	95
63)	2,4-Dinitrotoluene	7.132	165	137920	40.13	ppm	80
65)	Diethylphthalate	7.394	149	522470	42.34	ppm	98
66)	Fluorene	7.528	166	493690	41.14	ppm	99
67)	4-Chlorophenyl-phenyle...	7.528	204	236194	41.91	ppm	97
71)	n-Nitrosodiphenylamine	7.666	169	345041	40.95	ppm	99
72)	1,2-Diphenylhydrazine	7.715	77	521544	41.98	ppm	98
74)	4-Bromophenyl-phenylether	8.142	248	147390	44.08	ppm	99
75)	Hexachlorobenzene	8.233	284	147352	42.33	ppm	97
77)	Phenanthrene	8.815	178	714612	41.95	ppm	100
78)	Anthracene	8.895	178	706505	40.47	ppm	99
80)	Di-n-butylphthalate	9.862	149	894465	43.00	ppm	100
81)	Fluoranthene	10.920	202	798326	41.78	ppm	99
84)	Pyrene	11.358	202	799450	42.28	ppm	99
86)	Butylbenzylphthalate	12.955	149	382527	44.42	ppm	97
87)	Benzo[a]anthracene	13.960	228	727879	42.49	ppm	99
89)	Chrysene	14.040	228	652445	40.37	ppm	99
90)	bis(2-Ethylhexyl)phtha...	14.371	149	507763	43.49	ppm	100
92)	Di-n-octylphthalate	15.808	149	881522	43.54	ppm	100
93)	Benzo[b]fluoranthene	16.262	252	672825	40.66	ppm	97
94)	Benzo[k]fluoranthene	16.316	252	669170	42.80	ppm	98
95)	Benzo[a]pyrene	16.887	252	636795	43.22	ppm	99
96)	Indeno[1,2,3-cd]pyrene	18.939	276	592380	45.13	ppm	100
98)	Dibenz[a,h]anthracene	19.003	278	572251	42.66	ppm	99
100)	Benzo[g,h,i]perylene	19.366	276	592659	43.66	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.87

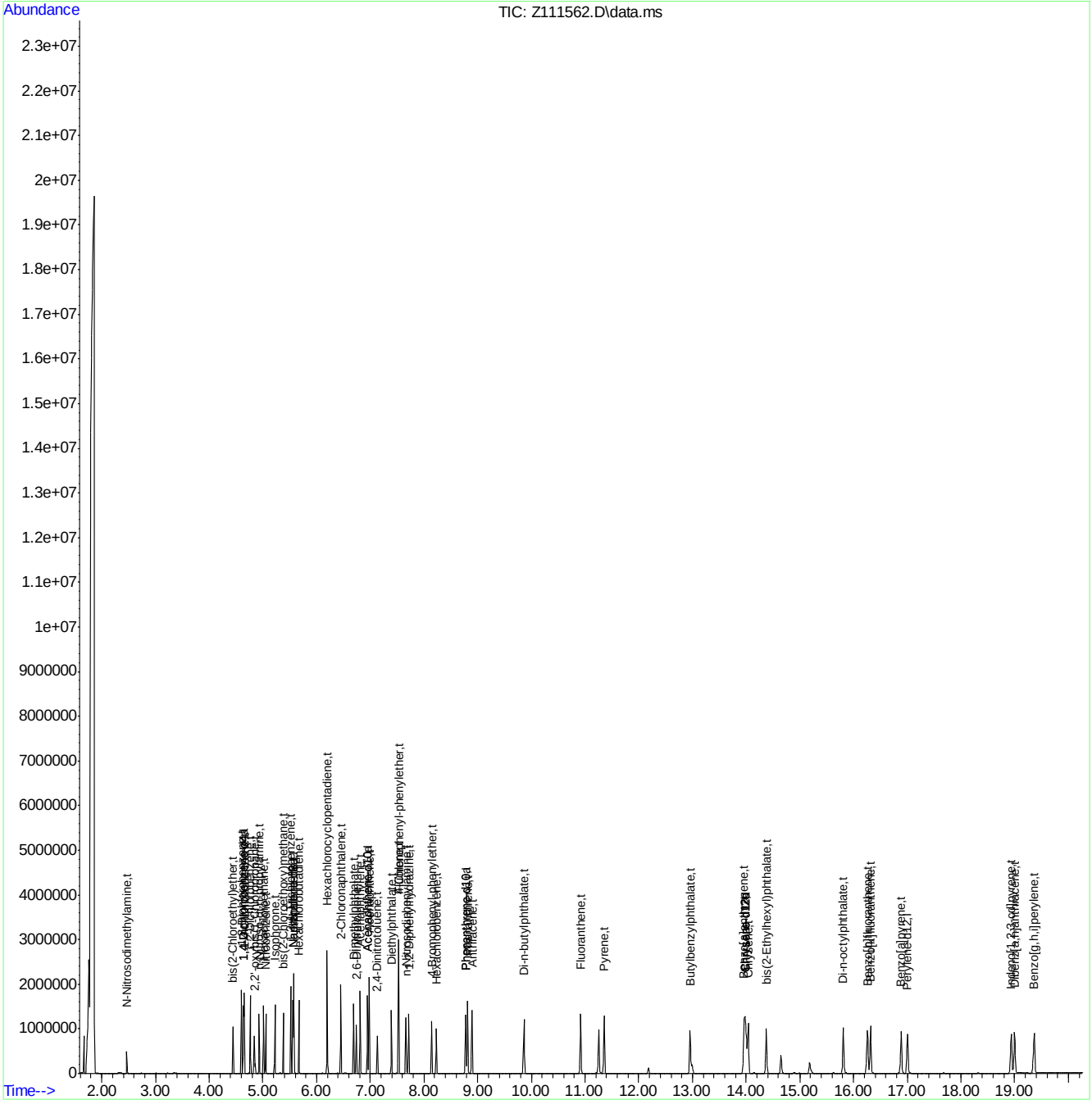
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111562.D
Acq On : 15 Jun 2016 5:33 pm
Operator : seanb1
Sample : icv5571-50
Misc : op94271,ez5574
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 09:55:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:33:31 2016
Response via : Initial Calibration



MZ5571.M Thu Jun 16 09:55:09 2016 RTE Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111562a.D
Acq On : 15 Jun 2016 5:33 pm
Operator : seanb1
Sample : icv5573-50
Misc : op94271,ez5574
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 09:53:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:33:31 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.637	152	171765	40.00	ppm	0.00
24) Naphthalene-d8	5.562	136	628315	40.00	ppm	0.00
47) Acenaphthene-d10	6.951	164	360539	40.00	ppm	0.00
69) Phenanthrene-d10	8.778	188	610746	40.00	ppm	-0.01
83) Chrysene-d12	13.986	240	547371	40.00	ppm	-0.01
91) Perylene-d12	17.005	264	493230	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4a	4.637	152	171765	40.00	ppm	0.00
103) Phenanthrene-d10a	8.778	188	610746	40.00	ppm	0.00
107) Chrysene-d12a	13.986	240	547371	40.00	ppm	0.00
109) Acenaphthene-d10a	6.951	164	360539	40.00	ppm	0.00
111) Naphthalene-d8a	5.562	136	628315	40.00	ppm	0.00
113) Chrysene-d12b	13.986	240	547371	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
108) Benzidine	11.256	184	567370	91.33	ppm	98
110) 1,2,4,5-Tetrachloroben...	6.197	216	233489	51.26	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

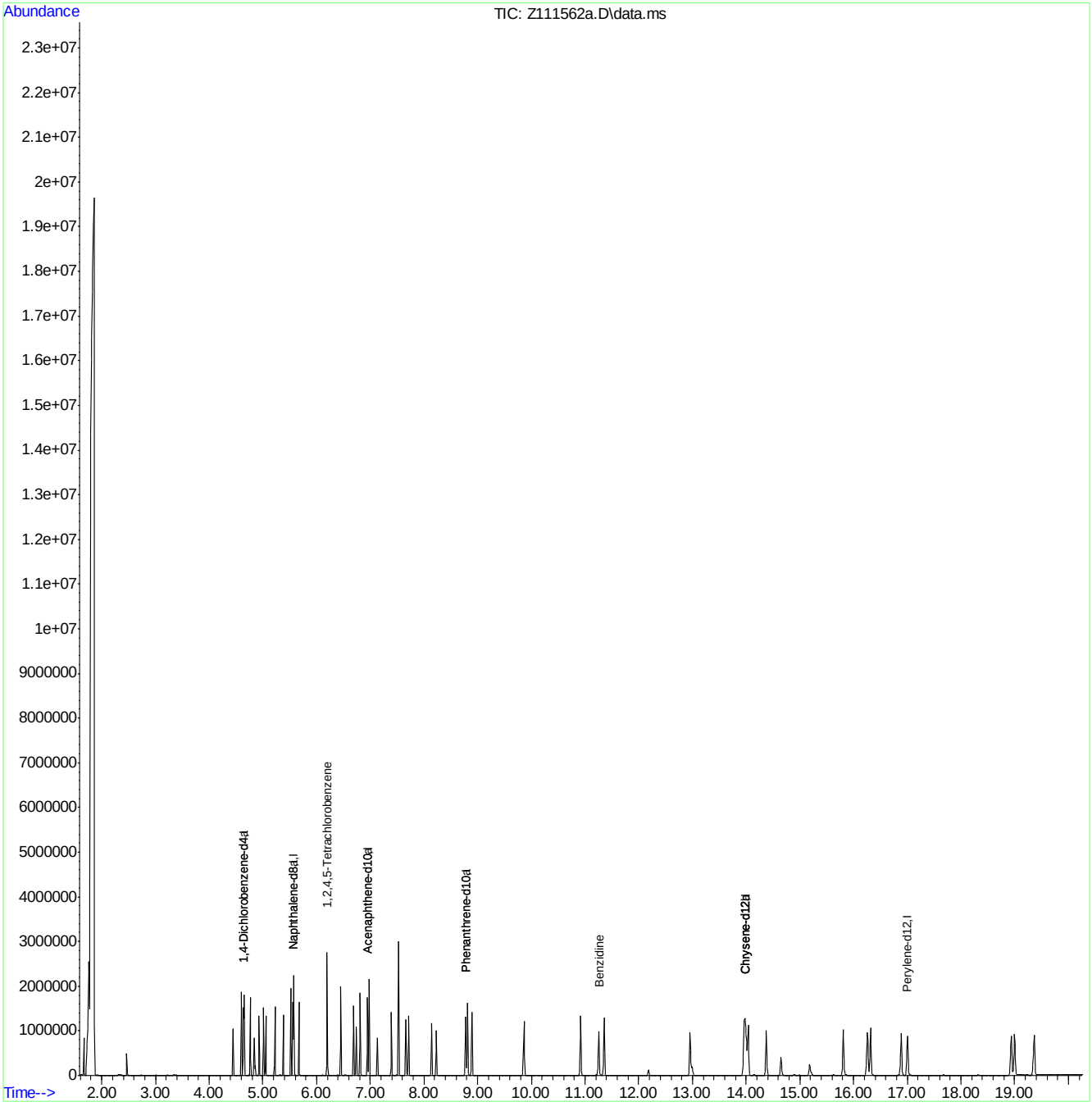
7.6.88

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5574\
Data File : Z111562a.D
Acq On : 15 Jun 2016 5:33 pm
Operator : seanb1
Sample : icv5573-50
Misc : op94271,ez5574
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 09:53:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Thu Jun 16 09:33:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111565.D
Acq On : 16 Jun 2016 8:58 am
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5575
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 10:10:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.632	152	173751	40.00	ppm	-0.01
24) Naphthalene-d8	5.551	136	652521	40.00	ppm	-0.01
47) Acenaphthene-d10	6.940	164	368775	40.00	ppm	-0.02
69) Phenanthrene-d10	8.767	188	595233	40.00	ppm	-0.02
83) Chrysene-d12	13.960	240	584685	40.00	ppm	-0.04
91) Perylene-d12	16.983	264	501809	40.00	ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.632	152	173751	40.00	ppm	-0.01
103) Phenanthrene-d10a	8.767	188	595233	40.00	ppm	-0.02
107) Chrysene-d12a	13.960	240	584685	40.00	ppm	-0.03
109) Acenaphthene-d10a	6.940	164	368775	40.00	ppm	-0.01
111) Naphthalene-d8a	5.551	136	652521	40.00	ppm	-0.01
113) Chrysene-d12b	13.960	240	584685	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.175	88	117232	46.25	ppm	98
6) Indene	4.824	116	492119	47.89	ppm	99
7) Cumene	4.044	105	675594	44.65	ppm	97
13) Decane	4.525	43	245829	45.43	ppm	96
18) Acetophenone	4.921	105	377637	45.56	ppm	85
27) Quinoline	5.802	129	527486	42.72	ppm	99
40) 2,3-Dichloroaniline	6.278	161	240024	38.74	ppm	99
41) Caprolactam	5.834	55	99089	40.06	ppm	99
45) 1-Methylnaphthalene	6.139	141	442324	42.14	ppm	98
46) Dimethylnaphthalene	6.561	156	451768	41.93	ppm	100
53) Biphenyl	6.427	154	623096	44.47	ppm	100
82) Octadecane	8.687	57	317171	47.46	ppm	98
99) 7,12-Dimethylbenz(a)an...	16.262	256	348725	47.74	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.89

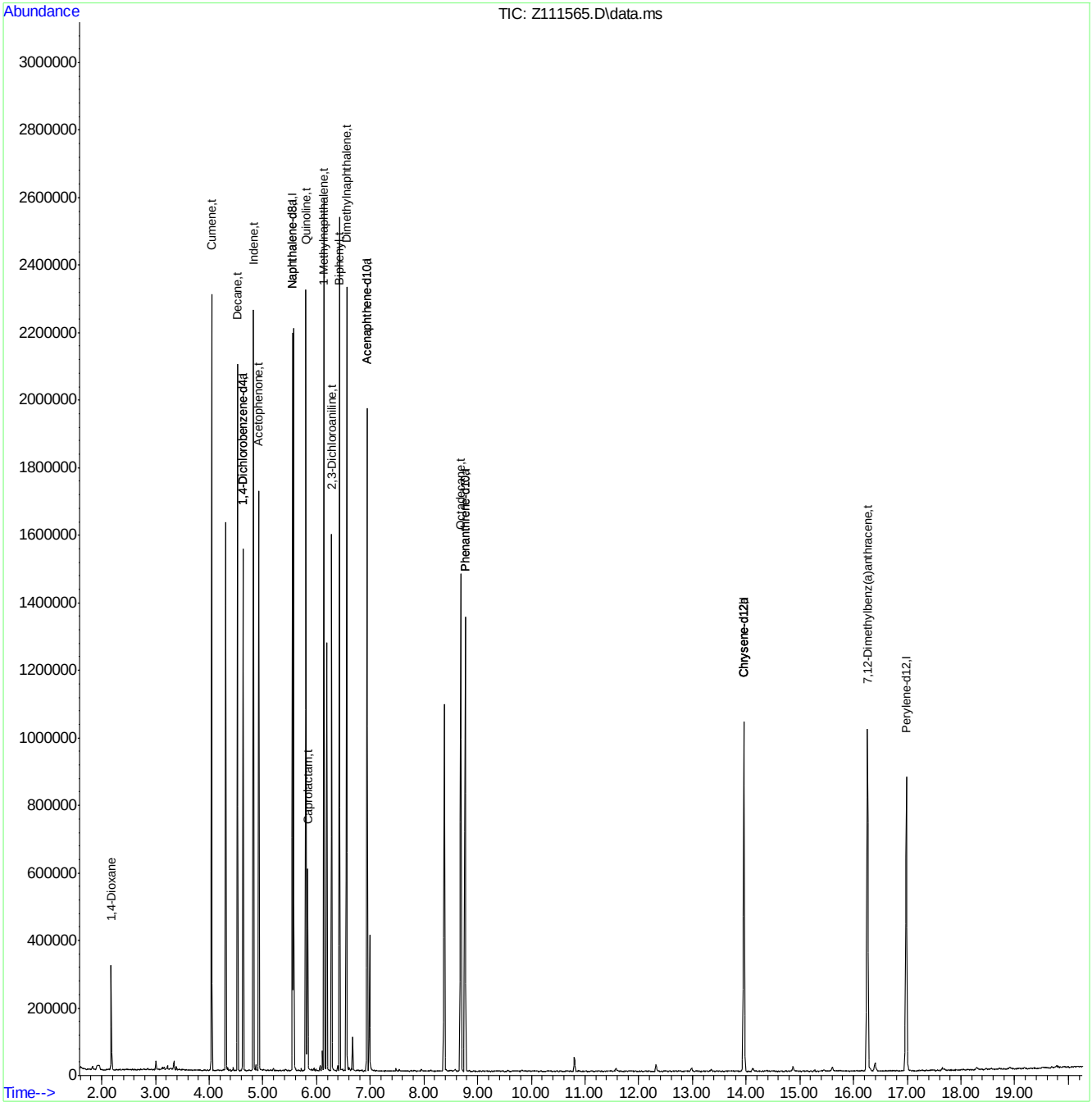
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111565.D
Acq On : 16 Jun 2016 8:58 am
Operator : ariellec
Sample : icv5571-50
Misc : op94271,ez5575
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 10:10:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



MZ5571.M Thu Jun 16 10:10:11 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111565a.D
Acq On : 16 Jun 2016 8:58 am
Operator : ariellec
Sample : icv5573-50
Misc : op94271,ez5575
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 10:07:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.632	152	173751	40.00	ppm	-0.01
24) Naphthalene-d8	5.551	136	652521	40.00	ppm	-0.01
47) Acenaphthene-d10	6.940	164	368775	40.00	ppm	-0.02
69) Phenanthrene-d10	8.767	188	595233	40.00	ppm	-0.02
83) Chrysene-d12	13.960	240	584685	40.00	ppm	-0.04
91) Perylene-d12	16.983	264	501809	40.00	ppm	-0.04
101) 1,4-Dichlorobenzene-d4a	4.632	152	173751	40.00	ppm	-0.01
103) Phenanthrene-d10a	8.767	188	595233	40.00	ppm	-0.02
107) Chrysene-d12a	13.960	240	584685	40.00	ppm	-0.03
109) Acenaphthene-d10a	6.940	164	368775	40.00	ppm	-0.01
111) Naphthalene-d8a	5.551	136	652521	40.00	ppm	-0.01
113) Chrysene-d12b	13.960	240	584685	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
104) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
105) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
102) Benzaldehyde	4.306	105	237488	53.75	ppm	98
106) Atrazine	8.382	215	77586	53.44	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.90

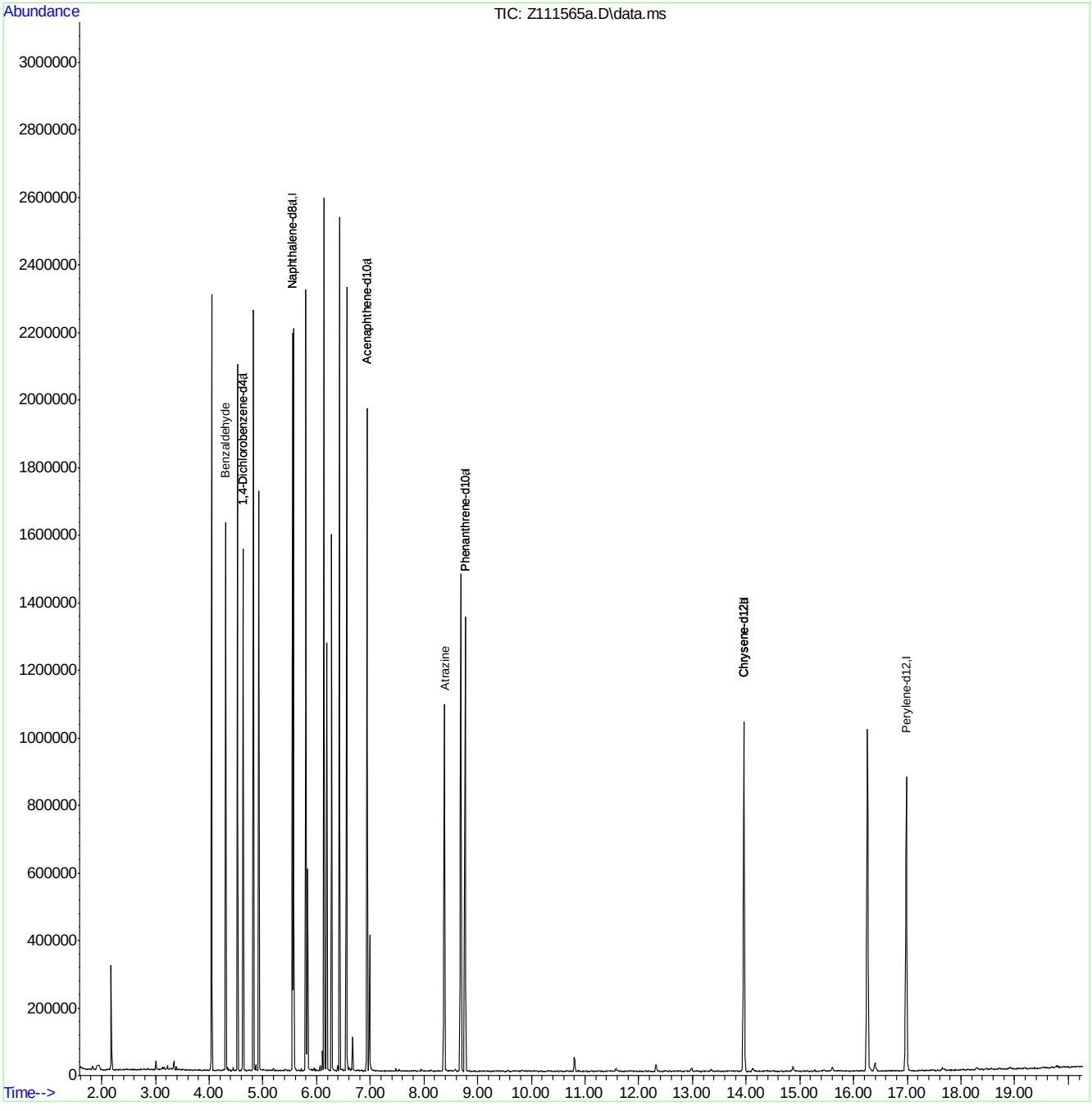
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ez5575\
Data File : Z111565a.D
Acq On : 16 Jun 2016 8:58 am
Operator : ariellec
Sample : icv5573-50
Misc : op94271,ez5575
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 10:07:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Wed Jun 15 12:16:37 2016
Response via : Initial Calibration



MZ5571.M Thu Jun 16 10:07:31 2016 RTE

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112255.D
Acq On : 10 Jul 2016 8:57 am
Operator : ARIELLEC
Sample : cc5571-50
Misc : op95277,ez5607,31.5
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 11:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 08 15:09:40 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.541	152	144494	40.00	ppm	-0.03
24) Naphthalene-d8	5.466	136	567183	40.00	ppm	-0.02
47) Acenaphthene-d10	6.833	164	336265	40.00	ppm	-0.09
69) Phenanthrene-d10	8.634	188	581641	40.00	ppm	-0.13
83) Chrysene-d12	13.826	240	533100	40.00	ppm	-0.15
91) Perylene-d12	16.855	264	460948	40.00	ppm	-0.18
101) 1,4-Dichlorobenzene-d4a	4.541	152	144494	40.00	ppm	-0.07
103) Phenanthrene-d10a	8.634	188	581641	40.00	ppm	-0.13
105) Chrysene-d12a	13.826	240	533100	40.00	ppm	-0.15
107) Acenaphthene-d10a	6.833	164	336265	40.00	ppm	-0.09
109) Naphthalene-d8a	5.466	136	567183	40.00	ppm	-0.07
System Monitoring Compounds						
5) 2-Fluorophenol	3.580	112	243640	48.79	ppm	-0.04
Spiked Amount 50.000			Recovery = 97.58%			
8) Phenol-d5	4.306	99	317900	50.31	ppm	-0.03
Spiked Amount 50.000			Recovery = 100.62%			
25) Nitrobenzene-d5	4.947	82	284528	53.04	ppm	-0.02
Spiked Amount 50.000			Recovery = 106.08%			
51) 2-Fluorobiphenyl	6.246	172	488394	44.94	ppm	-0.08
Spiked Amount 50.000			Recovery = 89.88%			
73) 2,4,6-Tribromophenol	7.688	330	56783	43.95	ppm	-0.11
Spiked Amount 50.000			Recovery = 87.90%			
85) Terphenyl-d14	11.615	244	519332	44.99	ppm	-0.15
Spiked Amount 50.000			Recovery = 89.98%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.036	88	115985	55.02	ppm	96
3) Pyridine	2.378	79	292005	50.67	ppm	99
4) N-Nitrosodimethylamine	2.351	74	172671	53.47	ppm	96
6) Indene	4.728	116	433097	50.68	ppm	98
7) Cumene	3.948	105	644605	51.23	ppm	98
9) Phenol	4.317	94	369704	53.88	ppm	97
10) Aniline	4.306	93	341701	45.19	ppm	71
11) bis(2-Chloroethyl)ether	4.349	93	228264	50.85	ppm	97
12) 2-Chlorophenol	4.403	128	267666	50.42	ppm	99
13) Decane	4.429	43	222275	49.40	ppm	98
14) 1,3-Dichlorobenzene	4.504	146	278865	47.87	ppm	99
15) 1,4-Dichlorobenzene	4.557	146	278295	47.94	ppm	98
16) Benzyl alcohol	4.654	108	164450	51.23	ppm	97
17) 1,2-Dichlorobenzene	4.670	146	251355	47.03	ppm	97
18) Acetophenone	4.841	105	365949	53.08	ppm #	73
19) 2-Methylphenol	4.750	108	219918	49.15	ppm	99
20) 2,2'-oxybis(1-Chloropr...	4.744	121	73707	50.44	ppm	95
21) 3&4-Methylphenol	4.862	108	243095	51.91	ppm	98
22) n-Nitroso-di-n-propyla...	4.841	70	195994	52.61	ppm	97
23) Hexachloroethane	4.910	201	91290	46.88	ppm	96
26) Nitrobenzene	4.963	77	281652	50.78	ppm	98
27) Quinoline	5.727	129	518934	48.35	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112255.D
Acq On : 10 Jul 2016 8:57 am
Operator : ARIELLEC
Sample : cc5571-50
Misc : op95277,ez5607,31.5
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 11:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 08 15:09:40 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Isophorone	5.134	82	493316	48.31	ppm		98
29) 2-Nitrophenol	5.193	139	153835	60.69	ppm		86
30) 2,4-Dimethylphenol	5.236	107	258464	51.52	ppm		98
31) Benzoic Acid	5.348	105	190234	58.65	ppm		94
32) bis(2-Chloroethoxy)met...	5.284	93	275383	47.63	ppm		99
33) 2,4-Dichlorophenol	5.380	162	217864	49.52	ppm		98
34) 2,6-Dichlorophenol	5.535	162	200135	48.75	ppm		97
35) 1,3,5-Trichlorobenzene	5.204	180	232286	45.84	ppm		98
36) 1,2,4-Trichlorobenzene	5.428	180	217195	45.22	ppm		98
37) 1,2,3-Trichlorobenzene	5.583	180	210711	45.39	ppm		100
38) Naphthalene	5.482	128	708939	46.96	ppm		99
39) 4-Chloroaniline	5.524	127	291591	45.02	ppm		97
40) 2,3-Dichloroaniline	6.187	161	259875	48.25	ppm		99
41) Caprolactam	5.786	55	109611	51.52	ppm		97
42) Hexachlorobutadiene	5.567	225	116533	43.72	ppm		100
43) 4-Chloro-3-methylphenol	5.888	107	252091	54.38	ppm		95
44) 2-Methylnaphthalene	5.973	141	417066	47.37	ppm		97
45) 1-Methylnaphthalene	6.048	141	436580	47.85	ppm		98
46) Dimethylnaphthalene	6.459	156	438856	46.86	ppm		98
48) Hexachlorocyclopentadiene	6.091	237	216585	74.61	ppm		100
49) 2,4,6-Trichlorophenol	6.198	196	150204	48.60	ppm		97
50) 2,4,5-Trichlorophenol	6.235	196	154208	47.13	ppm		99
52) 2-Chloronaphthalene	6.347	162	441344	44.90	ppm		96
53) Biphenyl	6.326	154	597996	46.80	ppm		100
54) 2-Nitroaniline	6.438	65	158311	59.81	ppm		96
55) Dimethylphthalate	6.577	163	536315	47.33	ppm		100
56) Acenaphthylene	6.700	152	769387	47.24	ppm		99
57) 2,6-Dinitrotoluene	6.641	165	123681	59.43	ppm		95
58) 3-Nitroaniline	6.796	138	146220	57.14	ppm		86
59) Acenaphthene	6.860	153	457198	46.74	ppm		96
60) 2,4-Dinitrophenol	6.908	184	136804	124.11	ppm	#	66
61) 4-Nitrophenol	6.999	109	74697	52.63	ppm	#	79
62) Dibenzofuran	7.031	168	634723	45.80	ppm		100
63) 2,4-Dinitrotoluene	7.031	165	168063	52.22	ppm		99
64) 2,3,4,6-Tetrachlorophenol	7.175	232	120961	44.75	ppm		95
65) Diethylphthalate	7.266	149	549604	47.75	ppm		99
66) Fluorene	7.400	166	519071	46.37	ppm		100
67) 4-Chlorophenyl-phenyle...	7.394	204	241724	45.99	ppm		99
68) 4-Nitroaniline	7.437	138	133598	51.05	ppm		84
70) 4,6-Dinitro-2-methylph...	7.485	198	98859	55.08	ppm		96
71) n-Nitrosodiphenylamine	7.538	169	353813	44.09	ppm		98
72) 1,2-Diphenylhydrazine	7.581	77	583619	49.33	ppm		97
74) 4-Bromophenyl-phenylether	7.998	248	135907	42.68	ppm		90
75) Hexachlorobenzene	8.094	284	143955	43.42	ppm		92
76) Pentachlorophenol	8.388	266	151873	75.17	ppm		97
77) Phenanthrene	8.671	178	739645	45.59	ppm		100
78) Anthracene	8.751	178	759874	45.71	ppm		99
79) Carbazole	9.029	167	757919	46.98	ppm		98
80) Di-n-butylphthalate	9.691	149	997404	50.35	ppm		99
81) Fluoranthene	10.765	202	829801	45.60	ppm		96

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112255.D
Acq On : 10 Jul 2016 8:57 am
Operator : ARIELLEC
Sample : cc5571-50
Misc : op95277,ez5607,31.5
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 11:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 08 15:09:40 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82)	Octadecane	8.532	57	337636	51.70	ppm	99
84)	Pyrene	11.198	202	854752	46.41	ppm	95
86)	Butylbenzylphthalate	12.769	149	444281	52.97	ppm	93
87)	Benzo[a]anthracene	13.800	228	768613	46.07	ppm	99
88)	3,3'-Dichlorobenzidine	13.842	252	272684	45.40	ppm	98
89)	Chrysene	13.880	228	727896	46.24	ppm	99
90)	bis(2-Ethylhexyl)phtha...	14.168	149	617107	54.27	ppm	99
92)	Di-n-octylphthalate	15.605	149	1076597	56.90	ppm	99
93)	Benzo[b]fluoranthene	16.113	252	772014	49.80	ppm	90
94)	Benzo[k]fluoranthene	16.177	252	679720	46.51	ppm	98
95)	Benzo[a]pyrene	16.743	252	656868	47.71	ppm	97
96)	Indeno[1,2,3-cd]pyrene	18.805	276	524659	42.77	ppm	98
97)	Dibenz(a,h)acridine	18.437	279	509648	44.37	ppm	97
98)	Dibenz[a,h]anthracene	18.859	278	539898	43.07	ppm	96
99)	7,12-Dimethylbenz(a)an...	16.123	256	347396	51.77	ppm	97
100)	Benzo[g,h,i]perylene	19.233	276	551428	43.47	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.91

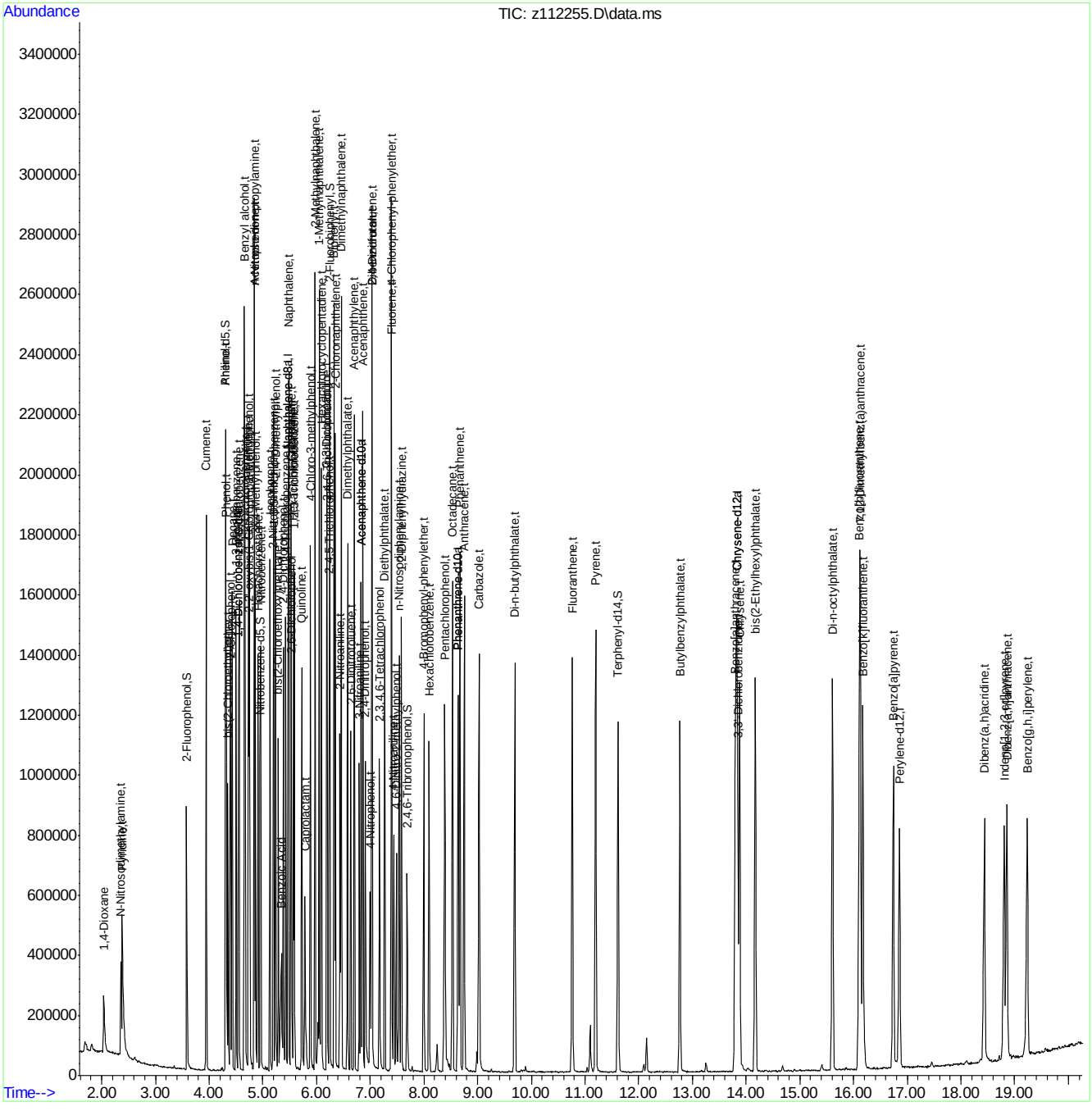
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112255.D
Acq On : 10 Jul 2016 8:57 am
Operator : ARIELLEC
Sample : cc5571-50
Misc : op95277,ez5607,31.5
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 11:13:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 08 15:09:40 2016
Response via : Initial Calibration



MZ5571.M Sun Jul 10 11:14:01 2016 RTE Page: 4

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112256.D
Acq On : 10 Jul 2016 9:26 am
Operator : ARIELLEC
Sample : cc5573-50
Misc : op95277,ez5607,31.5
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 10 11:15:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 08 15:09:40 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.541	152	143844	40.00	ppm	-0.03
24) Naphthalene-d8	5.460	136	562618	40.00	ppm	-0.03
47) Acenaphthene-d10	6.828	164	330292	40.00	ppm	-0.10
69) Phenanthrene-d10	8.628	188	564670	40.00	ppm	-0.14
83) Chrysene-d12	13.815	240	541477	40.00	ppm	-0.17
91) Perylene-d12	16.850	264	490868	40.00	ppm	-0.19
101) 1,4-Dichlorobenzene-d4a	4.541	152	143844	40.00	ppm	-0.07
103) Phenanthrene-d10a	8.628	188	564670	40.00	ppm	-0.14
105) Chrysene-d12a	13.815	240	541477	40.00	ppm	-0.17
107) Acenaphthene-d10a	6.828	164	330292	40.00	ppm	-0.10
109) Naphthalene-d8a	5.460	136	562618	40.00	ppm	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
102) Benzaldehyde	4.215	105	156771	42.86	ppm	97
104) Atrazine	8.254	215	71672	52.04	ppm	97
106) Benzidine	11.096	184	318689	51.86	ppm	99
108) 1,2,4,5-Tetrachloroben...	6.101	216	195756	46.91	ppm	97
110) Hydroquinone	5.781	110	247811	64.95	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.92

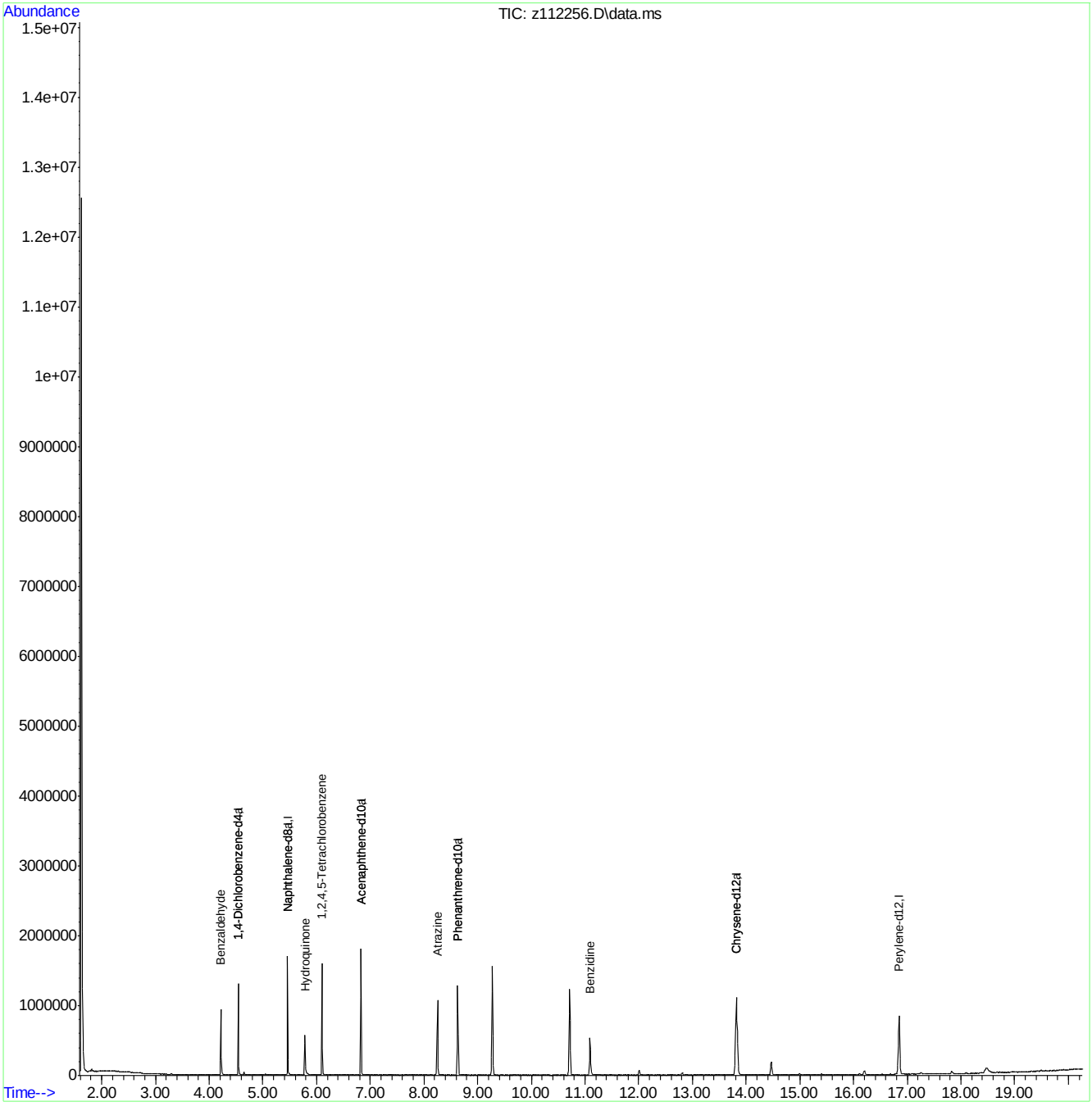
7

SGS ACCUTEST JC23443

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EZ5607\
Data File : z112256.D
Acq On : 10 Jul 2016 9:26 am
Operator : ARIELLEC
Sample : cc5573-50
Misc : op95277,ez5607,31.5
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 10 11:15:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\MZ5571.M
Quant Title : Semi Volatile GC/MS, ZB-5MS 15m x .25mm x .25um
QLast Update : Fri Jul 08 15:09:40 2016
Response via : Initial Calibration



MZ5571.M Sun Jul 10 11:15:19 2016 RTE

Page: 2

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2942

Print Analyst Name: Ashley Mayo

Analyst Signature: AMO

Date: 6/20/2016

Columns: RVI(G)1123 0mx0.5mmx0.5µ

Method 8270D/625

Initial Cal. Method 113M2942Sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.
		AMO 6/20/16

Standard Data

Lot #	Description	Conc.
SV518879	DFTPP	50ng
SV161935	8MTSTD	40ng
16248	DCMAFSTD	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M62370	DFTPP				1					OK	623PM
	62371	ICV2942-.2		BNAsim	W	2					OK	SV161935-60C
	62372	-.1				3					OK	-60D
	62373	-1.0				4					OK	-84A
	62374	-.5				5					OK	-84B
	62375	-.05				6					RR	SV161935-60E Bad injection
	62376	-.02				7					OK	SV161935-60F
	62377	-.01				8					OK	-60G
	62378	-.5				9					OK	-60A
	62379	-2.5				10					OK	-60B
	62380	-.05				11					OK	-60E
	62381	ICV2942-1.0		Bsim2nd	W	12					RR	OP16072012
	62382	-1.0		Acid2nd	W	13					OK	SV161935G6 12:50AM
												AMO

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

47

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2943

Print Analyst Name: LMSELK

Date: 6/21/16

Analyst Signature: [illegible]

Columns: Rxi-5sil MS 30m x .25mm x .25um

Method 8270D/1625

Initial Cal. Method M3M2942SIM

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SI1502791	DFTPP	50ppm
SI1602580	SIM ISTD	40ppm
162039	DCM EFCHON	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible]

Date: 6-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M022383	DFTPP			W	1					OK	9:00AM
	1022384	1012942-1.0		BSIM 20%	W	2					OK	9:20AM

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

49

Form: OR015-07
Rev. Date: 1/19/16

7.7.2

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3M2968

Print Analyst Name: Linsey K

Date: 7/8/16

Analyst Signature: JK

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SMC0435 89	DFTPP	50ppm
-100	SIMStd.	0.5ppm
-94	SIMTSTD	40ppm
163031	DCM (Fisher)	—

Columns: Rtx-5SilMS 30mx.25mmx.25um

Method: 8270D/625

Initial Cal. Method: M3M2942Sim

Injection Volume: 1uL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7/8/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M02848	DFTPP			W	1					NA	8:53AM
	02849	CC2942-0.5		BNsim	W	2					↓	bad ↓ reinstall
	02850	DFTPP			W	1					d	10:03AM
	02851	CC2942-0.5		BNsim	W	2					d	
	02852	0895323/5/4	953231	B52to	W	3			/	/	d	
	02853	-MB1				4			/	/	d	
	02854	JC-23443-1		NAP+14dioxane		5			/	/	d	
	02855	-2				6			/	/	d	
	02856	-3				7			/	/	d	
	02857	-4				8			/	/	d	Run by 9210
	02858	JC22603-1	951601	1,4dioxane	W	9			/	/	d	2-Copy

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

133

Form: OR015-07
Rev. Date: 1/19/16

7.7.3

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P 2503

Print Analyst Name: Hank Chao

Analyst Signature: HC

Date: 7/6/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV515791	DFTPP	50ppm
SV16A3594	SIM internal	400ppm
163B9	DCM Fished	—

Columns: Rtx-5Sil ms 30m x .25mm x .25

Method 8270D/625

Initial Cal. Method M3P2503SIM

Injection Volume: 1.0µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to compl with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 7/8/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3P54953	DFTPP				1					OK	9:12 am
	54954	ICC2503-1.0		BLASIM	W	2					not using	fix integration rerun as A file not
	54955	ICC2503-1.0		BLASIM	W	2					OK	SV16A935-90A
	54956	IC2503-001				3					OK	SV16-1935-60G
	54957	-0.02				4					OK	-60F
	54958	-0.05				5					OK	-60E
	54959	-0.1				6					OK	-60D
	54960	-0.2				7					OK	-60C
	54961	-5				8					OK	-60A
	54962	-2.5				9					OK	-60B
	54963	-0.5				10					OK	-90B
	54964	ICV2503-1.0		BSIM2nd	W	11					OK	OP16A7972 pan ST Rerun.
	54965	-1.0		Acid2nd	W	12					OK	SV16A93596 phenol T

AMO

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

11

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E3P2509

Print Analyst Name: Ashley Hyde

Date: 7/13/2016

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SU 15-1827-92	DFTPP	50 ppm
SU 16-1935-10B	Sim Std	0.5 ppm
SU 161935104	Sim Internal	4(X) ppm
163534	DCM (Fisher)	—

Columns: RTX-5Sil MS 30m x 0.25mm x

Method: 8270D/625

Initial Cal. Method: M3P2503Sim

Injection Volume: 1 µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7/15/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	BPS507-5	DFTPP				1					OK	9:19AM.
	55076	CC2503-0.5		BLASIM	W	2					OK	
	55077	OP95472-MB1	95472-1	B8270	W	3			✓	✓	OK	
	55078	JC23761-1		1.4D10X		4			✓	✓	OK	
	55079	-3				5			✓	✓	OK	
	55080	-4				6			✓	✓	OK	
	55081	-5				7			✓	✓	OK	mnb/8270!
	55082	JC23765-14		1.4D10X		8			✓	✓	OK	
	55083	-16				9			✓	✓	OK	
	55084	-42				10			✓	✓	OK	
	55085	OP95323A-MB1	95323A	B8270	W	11			✓	✓	OK	
	55086	JC23215-8		1.4D10X		12			✓	✓	OK	
	55087	-9				13			✓	✓	OK	
	55088	-10				14			✓	✓	OK	
	55089	-11				15			✓	✓	ok	
	55090	JC23368-1	95345-1	1.4D10X	W	16			✓	✓	ok	
	55091	JC23474-1	95376-1	1.4D10X	W	17			✓	✓	ok	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

31

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P2509

Print Analyst Name: Ashley Hoye

Analyst Signature: AMO

Date: 7/13/2016

Columns: 12x15m x30m x.5mm x

Method 8270D/625

Initial Cal. Method M3P2503sim

Injection Volume: µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	SEE PAGE 31	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible]

Date: 7/15/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3P55092	JC23474-3	953761	1,4D10X	W	18			✓	✓	ok	RRby 8270 1.5 636P
												AMO

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC23443

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M2974

Print Analyst Name: Ashley Mdyp

Date: 6/20/2016

Analyst Signature: AMO

Columns: ZB5ms 30m x 5mm x 5μ

Method 8270D/625

Initial Cal. Method M4M2973 4 5ppm

Injection Volume: 1μL AMO 6/20/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1582791	DFTPP	50ppm
SV1609350	Sim std. JSTD 6/20/16	400ppm
K0324	DCM-(Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M66179	DFTPP				1					OK	1066PLL
	66180	ICV2974-1		BLASIM	W	2					na	using fix windows Rerun
	66181	~~-.2~~	.1			~~3~~ 2					OK	SV1609350-60D
	66182	~~-.5~~	.2			~~4~~ 3					OK	-60C JK 6/21/16
	66183	~~-1.0~~	.5			~~5~~ 4					OK	~~-60~~ -84B
	66184	~~-.05~~	1.0			~~6~~ 5					OK	-84A
	66185	~~-.02~~	.05			~~7~~ 6					OK	-60E
	66186	~~-.01~~	.02			~~8~~ 7					OK	-60F
	66187	~~-.5~~	.01			~~9~~ 8					OK	-60G
	66188	AMO ~~-2.5~~	5			~~10~~ 9	AMO 6/20/16 ④				OK	-60A
	66189	6/20/16 ④ ~~-2.5~~				10					OK	-60B
	66190	ICV2974-1.0		BSim2nd	W	11					OK	OP1617406
	66191	1.0		Acid2nd	W	12					OK	SV1609357 4.00AM

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

167

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC23443

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M2998

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 7/6/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15B27-91	DFTPP	50ppm
SV16A935-94	SIM STD	1.0ppm
-94	SIM ISTD	400ppm
163039	DCM (Fisher)	—

Columns: ZB5ms30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M4M2974SIM

Injection Volume: 1µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JM

Date: 7-7-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4M66645	DFTPP				1					Ok	10:10am
	66646	CC2974-1.0				2					Ok	
	66647	JC22708-1				3					Not Using	
	66648	~~094536-MB1-2~~ 3/4/7/16	94530	B8270		4					↓	Vial was in incorrect well
	66649	-BSD2-3				5			/	/	Ok	
	66650	-BSD2-4				6			/	/	Ok	
	66651	JC21236-38 5 AT		BaPyrn		7			/	/	Ok	
	66652	-10 AT -6		↓		8			/	/	Ok	
	66653	-40 AT -7		↓		9			/	/	Ok	
	66654	~~094528-BSD2-8~~	95328	B8270		10			/	/	Ok	
	66655	-MS 9				11			/	/	Ok	
	66656	-MSD 7/6/16				12			/	/	Ok	
	66657	JC22450-8		B5imNJ 14D10X		13			/	/	Ok	
	66658	-9		↓		14			/	/	Ok	
	66659	-10		↓		15			/	/	Ok	
	66660	JC22499-2		B5im 14D10X +NAP		16			/	/	Ok	
	66661	JC23443-5		↓		17			/	/	Ok	7:33AM MNB 8/22/01

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

47

Form: OR015-07
Rev. Date: 1/19/16

7.2.7

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E4M2998

Print Analyst Name: Julius M. Johnson

Date: 4/4/16

Analyst Signature: [signature]

Columns: ZB5MS 30m x .25mm x .25µm

Method: 8270D/625

Initial Cal. Method: M4M2974SIM

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 47	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature]

Date: 7-7-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M66662	OP94536-MB1	94536			4			/	/	ok	ran after 4M66648
	66663	OP95328-MB1	95328			18					n	closed in seq & not run before 4M66654

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC23443

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M3003

Print Analyst Name Ashley Mayo

Analyst Signature: AMO

Date: 7/9/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16H3559	DFTPP	50ppm
SV16H3510CB	simstd.	50ppm
SV16H3594	siminternal	400ppm
163039	DCM Fisher	—

Columns: 2BSMS (+) 30m×25mm×25µm

Method 8270D/625

Initial Cal. Method M4M2974Sim

Injection Volume: 1µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible]

Date: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4M66740	DFTPP				1					ok	1213PM.
	66741	CC2974-.5		BMSim	W2						OK	acids & nonaqueous.
	66742	qp95328mbl	953294	B8270	W	3			/	J	OK	voran as "A" filena ISTD.
	66743	-bs12				4			/	J	OK	
	66744	-nb				5			/	J	OK	
	66745	-nsd				6			/	J	OK	
	66746	qp95394mbl	953941	AB8270	W	7			/	/	ok	
	66747	-bs12				8			/	/	ok	
	66748	JC22208-1		simpak		9			/	/	ok	
	66749	-2				10			/	/	ok	
	66750	-3				11			/	/	ok	
	66751	-4				12			/	/	ok	
	66752	-6				13			/	/	ok	
	66753	-7				14			/	/	ok	
	66754	-8				15			/	/	ok	
	66755	JC23251-1	953281	BSimSC2	W	16			/	J	OK	
	66756	-2				17			/	J	ok	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M3003

Print Analyst Name: Ashley M Dye

Analyst Signature: AMD

Date: 7/9/16

Columns: 2B5TMS 30m x 0.25mm x 0.25µ

Method 8270D/625

Initial Cal. Method M4M2974SIRC

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 63	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: NS

Date: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M66757	JC23251-3	95328	1,3,5,7,8,22	W	18			✓	✓	OK	
	66758	-4				19			✓	✓	OK	
	66759	-5				20			✓	✓	OK	
	66760	-6				21			✓	✓	OK	
	66761	-9				22			✓	✓	OK	
	66762	-10				23			✓	✓	OK	
	66763	-11				24			✓	✓	OK	11:47 pm
	66764	-13				25			✓		not using	12:17 am outside 12 hours

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC23443

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4P887

Print Analyst Name: Linsey K

Analyst Signature: [signature]

Date: 6/6/16

Columns: Rtx-5ilms 30mx.25mmx.25um

Method 8270D/1625 ~~8270 AK160606~~

Initial Cal. Method M4P887Bsim

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV160791	DFTPP	50ppm
SV160935	55 SIMSK ISTD	40ppm
	AK160606	
1603836	DCM (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-6-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4P16065	DFTPP			W	1					ok	front pkrgrem
	16066	DFTPP			W	1					ok	8:49AM
	16067	CC887-0.5		B1Bsim	W	2					↓	low response
	16068	DFTPP ~~87 AK160606~~			W	1					ok	9:57AM
	16069	CC887-0.5		B1Bsim	W	2					ok	SV160935-57B
	16070	ICC887-1.0				3					ok	-57A
	16071	ICC887-0.2				4					ok	-60C
	16072	-0.1				5					ok	-60D
	16073	-0.05				6					ok	-60E
	16074	-0.02				7					ok	-60F
	16075	-0.01				8					ok	-60G
	16076	-50				9					ok	-60A
	16077	-2.5				10					ok	-60B
	16078	ICV887-1.0		Acids 2nd		11					ok	SV160935-66
	16079	ICV887-1.0		Bsim 2nd		12					ok	QC160712-28 3:19pm

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

183

7.7.9

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4P944

Print Analyst Name: Ashley Mdyc

Analyst Signature: AMO

Date: 7/12/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15-1527-91	DFTPP	50 ppm
SV16-1935-103	SIM Std	0.5 ppm
SV16-1935-104	SIM IS	400 ppm
163534	DCM (Fisher)	—

Columns: Rxi-5Sil MS 30m x 25mm x 0.25µm

Method 8270D/625

Initial Cal. Method U4P887SIM

Injection Volume: 1µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible]

Date: 7/15/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4P17734	DFTPP				1					OK	1205PM
	17735	CC887-5		BUASIM	W	2					OK	
	17736	OP95318-MB1	95318-1	AB8270	W	3					RR	SUMT
	17737	JC232273		ABSIMNST+ 1,4DIOX		4					RR	SUMT
	17738	JC23036-9	95217A	BSIMNST+ 1,4DIOX	W	5			J	J	OK	
	17739	OP95361AMB1	95361A	AB8270	W	6					RR	SUMT
	17740	-BS12				7					RR	SUMT
	17741	JC23370-1		ABSIMNST 1,4DIOX		8			J	J	OK	
	17742	JC23326-5		1,4DIOX		9			J	J	OK	
	17743	OP95361A-MS		AB8270		10			J	J	OK	
	17744	-MSD				11			J	J	OK	
	17745	JC23081-1	95276A	1,4DIOX	W	12			J	J	OK	mnby 8270!
	17746	JC23215-3		1,4DIOX		13			J	J	OK	
	17747	-4				14			J	J	OK	
	17748	OP95276A-MS		AB8270	W	15			J	J	OK	
	17749	OP95256A-MS	95256A	AB8270	W	16			J	J	OK	
	17750	JC23396-2	95361A	1,4DIOX	W	17			J	J	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

163

7.7.10

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4P944

Print Analyst Name: Ashley Hdyle

Analyst Signature: AMO

Date: 7/12/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 163	

Columns: 12x15 Sil MS 30m x 25mm x 25µm

Method 8270D/625

Initial Cal. Method M4P887sim

Injection Volume: µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible] Date: 7/15/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4P17751	JC23420-1	95361A	624D10X	W	18			J	J	OK	
	17752	on 95328-MB1	95326-1	BS740	W	19			J	J	OK	
	17753	JC23251-13		BSMSL2		20			J	J	OK	
	17754	-15				21			J	J	OK	
	17755	-16				22			J	J	OK	948PM

AMO

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

165

7.7.10

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4P946

Print Analyst Name: Hank Chao

Analyst Signature: HC

Date: 7/13/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	DFTPP	50 ppm
SV161935100	Sim Std	.5 ppm
SV161935104	Sim Internal	400 ppm
163534	DCM (Fisher)	—

Columns: Rxi5si/ms 30mx.25mmX.25µm

Method 8270D/625

Initial Cal. Method M4P887Sim

Injection Volume: 1.0µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 7/15/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4P17768	DFTPP				1					OK	50ppm
	17769	CC887-5		BUAsim	W	2					OK	
	17770	op95361-mb1	95361-1	ABS270	W	3			✓	✓	OK	
	17771	-bs12				4			✓	✓	OK	
	17772	op95345-mb1	95345-1	ABS270	W	5			✓	✓	OK	
	17773	-bs12				6			✓	✓	OK	
	17774	JC23338-1		BSIMNT+14DIOX		7			✓	✓	OK	
	17775	JC23330-2				8			✓	✓	OK	
	17776	JC23248-16				9			✓	✓	OK	Not needed
	17777	JC23321-1				10			✓	✓	OK	
	17778	-2				11			✓	✓	OK	
	17779	OP95376a MB1	95376	ABS270		12			✓	✓	OK	
	17780	-BS12				13			✓	✓	OK	
	17781	JC23491-1		ABSIMNT		14			✓	✓	OK	
	17782	OP95376a-MS		ABS270		15			✓	✓	OK	
	17783	-MSD				16			✓	✓	OK	
	17784	OP95323-MB1	95323	BS270		17			✓	✓	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E4P946

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 7/13/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 169	

Columns: Rxissilms 30m x .25mm x .25µm

Method: 8270D/625

Initial Cal. Method: M4P887SIM

Injection Volume: 1µl

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMW

Date: 7/15/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	4m17785	SP95323a-BS12	95323	B8270		18			✓	✓	OK	fails low heavy palms
	17786	-MS				19			✓	✓	OK	
	17787	-MSD				20			✓	✓	OK	
	17788	JC23268-1		BSIMNJ14D10X		21			✓	✓	OK	
	17789	-2		↓		22			✓	✓	OK	
	17790	JC23294-1		BSIM14D10X		23			✓	✓	OK	309AM

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

171

7.7.11

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4667

Print Analyst Name: Ashley M Dye

Analyst Signature: AMD

Date: 6/28/2016

Columns: 7B5 ms(4) 30m x 0.25mm x 0.25 µm

Method 8270D/625

Initial Cal. Method MP4667

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1518279	DFTPP	50ppm
CM5732	Internal Std	4000ppm
163039	(Fisher) DCM.	"

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6/29/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	7	AMD 6/28/16(4)										
	P105687	DFTPP				1					OK	10:19am
	105688	IC4667-1		BNA	W	2					OK	SV16193592I
	105689	-2				3					OK	H
	105690	-5				4					OK	G
	105691	-10				5					OK	E
	105692	-25				6					OK	D
	105693	IC4667-50				7					OK	C
	105694	IC4667-80				8					OK	B 247PM
	105695	-100				9					OK	Tangier P105688 A 1147AM

AMD

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC23443

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4668

Print Analyst Name: Ashley Mdx

Date: 6/28/2016

Analyst Signature: AMO

Columns: ZB5MS 15@30 m x 25mm x 25µm

Method 8270D/625

Initial Cal. Method MP4667

Injection Volume: 1 µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV15182791	DFTPP	50 ppm
CMS732	Internal Std	4000 ppm
163039	DCM (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-29-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	P105696	DFTPP				1					OK	647PM
	105697	IC4668-100		TCL42	W	2					OK	SV16193531A
	105698	IC4668-80				3					OK	B
	105699	IC4668-50	AMO 6/28/16			4					OK	C
	105700	IC4668-25				5					OK	SV16193532P
	105701	IC4668-10				6					OK	SV16193531E
	105702	-5				7					OK	G
	105703	-2				8					OK	H
	105704	-1				9					OK	I
	105705	ICV4667-50		Acid	W	10					OK	SV15182779
	105706	-50		Aniline	W	11					OK not using	SV15182774 3NAT
	105707	-50		ABNsvr	W	12		AMO 6/29/16			OK	OP16712107
	105708	-50		BZD3rd	W	13					OK	SV15182738B
	105709	ICV4667-50		BN1spike	W	14					OK	SV16193575
	105710	-50		BN2spike	W	15		AMO 6/29/16			OK not using	SV15182780 7/12L
	105711	ICV4668-50		HQ	W	16					OK	SV15182798D 148AM
	105712	SV16193595		BN1		17					OK	passing extraction test

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

AMO

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC23443

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4669

Print Analyst Name: Ashley Mdyk

Analyst Signature: AMO

Date: 6/29/2016

Columns: ZB5MS 30m x 5mm x 25µm

Method 8270D/625

Initial Cal. Method U P4667

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVS182791	DFTPP	50ppm
CM5732	internal std.	4000ppm
163039	DCM (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-29-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	P105713	DFTPP				1					OK	1059 AM.
	105714	ICV 466750		Aniline	W	2					OK	SVI193585 4NAT
	105715	ICV 466750		BN2	W	3					OK	AMO 6/29/16 SVI193582 1150AM

AMO

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

5

Form: QR015-07
Rev. Date: 1/19/16

7.7.14

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4679

Print Analyst Name: Brittany Piercy

Date: 07/08/2016

Analyst Signature: B.P

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	DFTPP	50ppm
-920	BNA	25ppm
32A-HR	TCL42	25ppm
BP7/8-116(1)		
CM-5732	Internal Std.	4000ppm
1623039	DCM (Fisher)	—

Columns: ZB-5MS® 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MP4667

Injection Volume: 1.0µL

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JM **Date:** 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	P 105944	DFTPP			W	1					not using	7:58 Am
	105945	CC4667-25		BNA	W	2						4,23,41,42,48,54,61,64,73,↑ 2↓ acidsum↑
	105946A	CC4668-25		TCL42	W	3						Wrong Bottle RRas A file
	105947	BNA verf. -1ppm			W	4						SV161935-67A.
	105948	DFTPP			W	1					not using	51↓ rerun
	105949	DFTPP			W	1					OK	
	105950	CC4667-75		BNA	W	2					OK	
	105951	OP95069-MB1	95069-1	AB8270	W	3			2↓		not using	RR for ISTD
	105952	JC22087		Pahsim		4			/	/	OK	
	105953	OP95328-MB1	95328-1	AB8270	W	5			/	1↑	OK	
	105954	JC23443		1,4Dioxane		6			/	/	OK	2:10 pm
R	105955	OP95069-MB1	95069-1	AB8270	W	7			2↓		not using	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

43

Form: OR015-07
Rev. Date: 1/19/16

7.7.15

7

SGS ACCUTEST JC23443

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EZ5571

Print Analyst Name: Agelle Cocozza

Analyst Signature:

Date: 6/14/16

Columns: RXJ 5ms 30mx0.25mx0.25um; ZB5ms+30mx0.25mmx0.25um AC 6/15/16

Method 8270D 1625

Initial Cal. Method MZ5571

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 15182791	DFTPP	50ppm
CM-5732	Internal Std	4000ppm
160038	DCM (Rinse)	-

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO. Date: 6/15/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	111534	DFTPP			W	1					NC	baseline not re-injected
	111535	DFTPP				1					OK	4.45
	111536	6/14/16 IC5571-100		BNA		2					OK	SV 169185-63A
	111537	6/14/16 IC5571 -80				3					OK	-63B
	111538	IC5571-50				4					OK	-63C
	111539	IC5571-25				5					OK	-63D
	111540	-10				6					OK	-63E
	111541	-5				7					OK	-63G
	111542	-2				8					OK	-63H
	111543	-1				9					OK	-63I 8.3ppm
												SB

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

109

7.7.16

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EZ5573

Print Analyst Name: Arielle Cavazza

Analyst Signature:

Date: 6/15/16

Columns: Rtx-5 (15m x 25mm x 25um)

Method 8270D/625

Initial Cal. Method MZ5571

Injection Volume: 1ul

Standard Data		
Lot #	Description	Conc.

Standard Data		
Lot #	Description	Conc.
1518791	PFTBA	50ppm
CM5732	Int Std	40ppm
162418	PCM (Fisher)	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	Z11544	pcmpp				1					OK	80ppm
	545	ICV5573-106		TCLP		2					OK	SU16153538
	546	80				3					OK	3B
	547	ICV5573-58				4					OK	3C
	548	ICV5573-28				5					OK	3D
	549	10				6					OK	3E
	550	5				7					OK	3G
	551	2				8					OK	3H
	552	1				9					OK	3I
	553	ICV5571-56		Acids		10					RR	60↓ SU16193521
	554	50		ABN Surr		11					OK	08/6/16 16:07 75
	555	50		Anilines		12					OK	SU16135-20
	556	50		3NI		13					RR	-75 63↓
	557	50		3NR		14					RR	SU15827 80
	558	ICV5573-50		~~HQ~~ BZP 3rd		15					OK	SU15827 3983 Reporting 3,300,000
	559	50		~~BZP 3rd~~ HQ		16					OK	980 314ppm

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

113

Form: OR015-07
Rev. Date: 1/19/16

7.7.17

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EZ5574

Print Analyst Name: Sean Black

Analyst Signature: Sean T Black

Date: 6/15/16

Columns: Rtx-5Sil MS 30m x .25mm x .25µ

Method 8270 D/625

Initial Cal. Method MZ5571

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 151827-91	DFTPP	50ppm
CM-5732	Internal Std	400ppm
162418	DCM (Rinse)	-/-

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	211580	DFTPP				1					OK	4.41ppm
	111561	ICV5571-50		Acids		2					OK	SV161635-21
	111562	-50		BN1		3					GE	SV161635-75
	111563	-50		BN2		4					RR	SV151827-80 6.23ppm

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

115

Form: OR015-07
Rev. Date: 1/19/16

7.7.18

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EZ5575

Print Analyst Name: Archie Cooper

Date: 6/16/16

Analyst Signature: [illegible]

Columns: 8270D/625

Method: 8270D/625

Initial Cal. Method: M75571

Injection Volume: 1 µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
1032791	DFTPP	50ppm
CM5732	int std	400ppm
62458	DCM (Fish-d)	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 6/16/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	11584	DFTPP									ok	841AM
	11585	EZ5575-50		BNZ							OK	SV16-3565 855AM

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

117

7.7.19

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EZ5607

Print Analyst Name: Arielle Cocozza

Analyst Signature: [signature]

Date: 7/10/16

Columns: Restek 30m x 25mm x 25um

Method 8270D/625

Initial Cal. Method MZ5571

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SU 161635589	8270	50ppm
931	BNA	↓
925	625	↓
MS752	IS/SU	4000ppm
163359	DCM Fluor	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMO

Date: 7/11/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	112254	DFTPP			W	1					OK	8% abn
	112255	CC5571-50			W	2					OK	48 26 60,25
	112256	CC5573-50			W	3					OK	HOT
	112257	BNA 50 ppm			W	4					OK	SU 161935651
	112258A	JC23443-4	95323A	14 NBA TMP	W	5			/	/	OK	Breakthrough change
	112259	GP 95383-MB1	95383	AB52701	S	6		X	/	/	OK	Can AB52 112257
	112260	JC23279-12		AB52701		7		X	/	/	OK	
	112261	3				8		X	/	/	OK	
	112262	14				9		X	/	/	OK	
	112263	JC22677-20A	95053	AB52701	S	10			/	/	OK	CFS
	112264	JC23243-14	95277	AB52701	S	11		X	/	/	OK	
	112265	15				12		X	/	/	OK	
	112266	8				13		X	/	/	OK	
	112267	10				14		X	/	/	OK	
	112268	11				15		X	/	/	OK	
	112269	12				16		X	/	/	OK	RQ 1:5
	112270	13				17		X	/	/	OK	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC23443

7.7.20 7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EZ5607

Print Analyst Name: Anne Cooper

Analyst Signature:

Date: 7/6/16

Columns: Rtx-5Sil MS 30m x 0.25mm x 0.25um

Method 8270D/625

Initial Cal. Method M75571

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	Surr 37	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: AMD Date: 7/11/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	Z112271	JC22283-9	95677	8270D	S	18		X	/	/	Ok	
	112272	16				19		X	/	/	Ok	549pm RR 1:5
	112273	JC22556-1A	95683	8270D	S	20	2		/	/	OK	Rn After Z112261
	112274	DCM			W	100						run at end of sequence

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

LOGBOOK ID: 6-1747

ABN Aqueous Extraction Logbook

Date Started: 07.06.16 Time Started: 7:45 AM
Date Finished: 07.06.16 Time Finished: 12:45

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # MS 95323	RACK# D-6
Extracted by:	EMC NL & SZ
Concentrated by:	SG SD
Vialed by:	SP
Relinquished by:	
Accepted by:	
Supervisor Review:	7/6/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) > H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
MB1	ABN		DI H2O	1000	1	4	clear	1		
BS1			DI H2O	1000	1	4	yellow	1		
JC23268-1 MS		2	1. Yellow	500	1	4	yellow	1		
MSD		2	1. Yellow	500	1	4	yellow	1		
BS	12SIM		DI H2O	1000	1	4	yellow	1		
JC23294-1 MS		2	clear	475	1	4	yellow	1		
MSD		2	clear	475	1	4	yellow	1		
1 JC23215-5	ABN	1	Clear	950	1	4	clear	1		
2 -6		2	Yellow	1000	1	4	clear	1		
3 -7		1	1. Yellow	1000	1	4	clear	1		
4 -8		1	1. Yellow	1000	1	4	clear	1		
5 -9		2	1. Yellow	1000	1	4	clear	1		
6 -10		2	Yellow	1000	1	4	clear	1		
7 -11		2	1. Yellow	1000	1	4	clear	1		
8 JC23217-1		1	Clear	1000	1	4	clear	1		
9 JC23218-1		3	1. Yellow	980	1	4	yellow	1		
10 JC23207-3		3	Clear	1000	1	4	clear	1		
11 JC23268-1		1	1. Yellow	1000	1	4	yellow	1		
12 -2		3	Yellow	1000	1	4	clear	1		
13 JC23274-1		2	Yellow	1000	1	4	yellow	1		
14 -3		1	Yellow	1000	1	4	yellow	1		
15 -8		1	1. Yellow	1000	1	4	clear	1		
16 JC23294-1		1	Clear	930	1	4	clear	1		
17 JC23443-1		2	Brown	890	1	4	clear	1		
18 -2		1	Brown	900	1	4	clear	1		
19 -3		1	Brown	910	1	4	clear	1		
20 -4		1	Brown	940	1	4	clear	1		

Comments: Okay to split sim ms/msd not enough bottles.

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD: HT today

Final Volume:

Other: Ident AT

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	617	7.5, 7.5	-.5, .1	74.7, 74.7	N/A
Waterbath Chiller (GPM)	F2	3	—	—	2
NEVAP (32-38°C, LPM)	2	36.2	+.1	36.3	10

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16F17 7071	50	1

WITNESS SIGN: EMC SPIKE SIGN: NL

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193583	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	16193595	50	1
Base #2	16193596	50	1
Anilines	16193585	50	1
BSIM	16F7810	1	1

WITNESS SIGN: EMC SPIKE SIGN: NL

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	163039	Fisher	6/60

REAGENT	LOT #	BRAND
NaOH	157997	Fisher
H2SO4	4603889	Acce
Sodium Sulfate	157477	Fisher
Glass Wool	09012-2	LAB
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

23 77

LOGBOOK ID: 6-1747

ABN Aqueous Extraction Logbook

Date Started: 7/6/16 Time Started: 8:00
Date Finished: ~~7/6~~ 7/6/16 Time Finished: 1430
SP-

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other √ 3510C SIM –
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 95328	RACK# 07
Extracted by:	BLC NL MP SZ
Concentrated by:	SG, SP
Vialed by:	SP
Relinquished by:	
Accepted by:	
Supervisor Review:	7/6/16

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) < H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H2O	1000	1	4	clear	1		
	BS1			DI H2O	1000	1	4	yellow	1		
	JC23251-1 MS		2	l. Brown	500	1	4	yellow	1		
	MSD		2	l. Brown	500	1	4	yellow	1		
	BS	125IM		DI H2O	1000	1	4	yellow	1		
	JC23251-2 MS		2	l. Brown	500	1	4	yellow	1		
	MSD		2	l. Brown	500	1	4	yellow	1		
1	JC23251-1	ABN	1	l. Brown	1000	1	4	clear	1		
2	-2		1	l. Brown	1000	1	4	clear	1		
3	-3		1	Yellow	1000	1	4	clear	1		
4	-4		1	Yellow	1000	1	4	clear	1		
5	-5		1	l. Yellow	1000	1	4	clear	1		
6	-6		1	Clear	1000	1	4	clear	1		
7	-9		1	Clear	940	1	4	clear	1		
8	-10		1	Clear	1000	1	4	clear	1		
9	-11		1	clear	1000	1	4	clear	1		
10	-13		1	l. Yellow	1000	1	4	clear	1		
11	-15		1	l. Yellow	1000	1	4	clear	1		
12	-16		1	Clear	910	1	4	clear	1		
13	JC22450-8		2	Yellow	1000	1	4	yellow	1		
14	-9		2	Orange	1000	1	4	clear	1		
15	-10		2	l. Yellow	950	1	4	clear	1		
16	JC22499-2		2	Clear	1000	1	4	clear	1		
17	JC23296-20		1	Yellow	1000	1	4	clear	1		
18	-21		1	Yellow	1000	1	4	yellow	1		
19	JC23443-5		1	Brown	910	1	4	clear	1		
20											

Comments:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes: HT today

Required MS/MSD:

Final Volume: past due

Other: 3day TAT

24 1day TAT

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	6,7	75,75	-.5,-.1	74.7,74.4	N/A
Waterbath Chiller (GPM)	F2	3	–	–	2
NEVAP (32-38°C; LPM)	2	36.2	+.1	36.3	10

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16177021	50	1

WITNESS SIGN: BLC SPIKE SIGN: NL

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193583	50	Acid: 1
Acid (for SIM)			A(SIM): .1
Base #1	16193595	50	1
Base #2	16193596	50	1
Anilines	16193585	50	1
BSIM	16177012	1	1

WITNESS SIGN: BLC SPIKE SIGN: NL

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	163039	Fisher	660

REAGENT	LOT #	BRAND
NaOH	157991	Fisher
H2SO4	4603899	Ricca
Sodium Sulfate	157477	Fisher
Glass Wool	629122	LAB S$S
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

Prep Log OP95328A page 1 of 1
SGS
658 of 658
ACCUTEST
JC23443
7.8.2 7