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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

02i

SGS Accutest Job Number: JC24816

Sampling Dates: 07/22/16 - 07/26/16

Report to:

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

ATTN: Terry Taylor

Total number of pages in report: **378**

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)

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Test results relate only to samples analyzed.

SGS Accutest is the sole authority for authorizing edits or modifications to this document.
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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: JC24816-1: OSGP12-GWS 7
4.2: JC24816-2: OSGP12-GWD 8
4.3: JC24816-3: OSGP14-GWS 9
Section 5: Misc. Forms **10**
5.1: Chain of Custody 11
5.2: Sample Tracking Chronicle 14
5.3: Internal Chain of Custody 15
Section 6: GC/MS Semi-volatiles - QC Data Summaries **17**
6.1: Method Blank Summary 18
6.2: Blank Spike Summary 22
6.3: Matrix Spike/Matrix Spike Duplicate Summary 24
6.4: Instrument Performance Checks (DFTPP) 25
6.5: Internal Standard Area Summaries 38
6.6: Surrogate Recovery Summaries 45
6.7: Initial and Continuing Calibration Summaries 46
Section 7: GC/MS Semi-volatiles - Raw Data **86**
7.1: Samples 87
7.2: Method Blanks 98
7.3: Blank Spikes 106
7.4: Matrix Spike/Matrix Spike Duplicates 110
7.5: Instrument Performance Checks (DFTPP) 114
7.6: Initial and Continuing Calibrations 195
7.7: Instrument Run Logs 359
7.8: Prep Logs 377

SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: JC24816

BMSMC, Building 5 Area, PR
Project No: 02i

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC24816-1	07/26/16	12:30	TT	07/28/16	AQ	Ground Water	OSGP12-GWS
JC24816-2	07/26/16	10:45	TT	07/28/16	AQ	Ground Water	OSGP12-GWD
JC24816-3	07/22/16	14:50	TT	07/28/16	AQ	Ground Water	OSGP14-GWS

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC24816
Site:	BMSMC, Building 5 Area, PR	**Report Date**	8/10/2016 9:54:25 AM

From 07/28/2016 to 07/30/2016, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 3.2 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC24816 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:** OP95904A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP95904A-MB1: Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.
- OP95904A-MB1: Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.
- OP95904A-BS12: Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.
- JC24816-3: Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.
- JC24816-3: Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.
- JC24816-2: Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.

Matrix: AQ **Batch ID:** OP95939A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC24878-2MS, JC24878-2MSD were used as the QC samples indicated.
- RPD(s) for MS/MSD for 1,4-Dioxane are outside control limits. Analytical precision exceeds in-house control limits.
- OP95939A-BS12: low for full list

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: JC24816
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 07/22/16 thru 07/26/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC24816-1	**OSGP12-GWS**					
No hits reported in this sample.						
JC24816-2	**OSGP12-GWD**					
1,4-Dioxane [a]		0.361	0.11	0.054	ug/l	SW846 8270D BY SIM
JC24816-3	**OSGP14-GWS**					
1,4-Dioxane [a]		6.37	1.1	0.053	ug/l	SW846 8270D BY SIM

(a) Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP12-GWS		
Lab Sample ID:	JC24816-1	**Date Sampled:**	07/26/16
Matrix:	AQ - Ground Water	**Date Received:**	07/28/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M63435.D	1	08/03/16	SG	07/30/16	OP95939A	E3M3006
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	42%		24-125%
321-60-8	2-Fluorobiphenyl	44%		19-127%
1718-51-0	Terphenyl-d14	37%		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:	OSGP12-GWD		
Lab Sample ID:	JC24816-2	**Date Sampled:**	07/26/16
Matrix:	AQ - Ground Water	**Date Received:**	07/28/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3P55371.D	1	07/30/16	JJ	07/28/16	OP95904A	E3P2531
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	0.361	0.11	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	52%		24-125%
321-60-8	2-Fluorobiphenyl	52%		19-127%
1718-51-0	Terphenyl-d14	43%		10-119%

(a) Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.

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:	OSGP14-GWS		
Lab Sample ID:	JC24816-3	**Date Sampled:**	07/22/16
Matrix:	AQ - Ground Water	**Date Received:**	07/28/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	P106468.D	1	07/29/16	AD	07/28/16	OP95904A	EP4706
Run #2 [a]	3M63335.D	1	07/29/16	SG	07/28/16	OP95904A	E3M3000

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2	920 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [b]	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	6.37	1.1	0.053	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	57%	72%	24-125%
321-60-8	2-Fluorobiphenyl	66%	75%	19-127%
1718-51-0	Terphenyl-d14	68%	71%	10-119%

(a) Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.
(b) 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

CW

ACCUTEST LABORATORIES

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

809862883442

Bottle Order Control #

Accutest Quote #

Accutest Job # JC24816

Client / Reporting Information

Company Name: Anderson Mulholland & Associates
Street Address: 2700 Westchester Avenue, Suite 417
City State Zip: Purchase NY 10577
Project Contact: Terry Taylor
E-mail:
Phone #: 914-251-0400
Fax #:
Sampler(s) Name(s): N. Rivera, R. Stuart, R. O'Reilly, T. Taylor
Phone #:

Project Information

Project Name: BMSMC Phase 2A Release Assessment
Street:
City State: Humacao PR
Project #: 02i
Client Purchase Order #:
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)

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	OSGP 12-GWS		7-26-16	1230	TT	GW	2					2				X	E6
2	OSGP 12-GWD		7-26-16	1045	TT	GW	2					2				X	
3	OSGP 19-GWS		7-22-16	1450	TT	GW	2					2				X	

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:

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

INITIAL ASESSMENT 2/3B
LABEL VERIFICATION

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		7-27-16 1700	Fed EX	FED EX	7-28-16 9:30	
2						
3						
4						
5						

Custody Seal # 956 [x] Intact [ ] Not intact Preserved where applicable [ ] On Ice [ ] Cooler Temp. 1.0°C

JP

5.1 5

JC24816: Chain of Custody
Page 1 of 3

SGS Accutest Sample Receipt Summary

Job Number: JC24816 **Client:** _____ **Project:** _____

Date / Time Received: 7/28/2016 9:30:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (1.0);

Cooler Temps (Corrected) °C: Cooler 1: (1.9);

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:	Intact		

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

5.1

5

JC24816: Chain of Custody

Page 2 of 3

CHAIN OF CUSTODY

FX# 6740 5002 0050 JC24816

SGS ACCUTEST

495 Tech Center West, Bldg 1, Marlboro, MA 01752
TEL: (508)481-6200 FAX: (508)-481-7753

Accutest Job #:	MC47057
Accutest Quote #:	Page 1 of 1
AMS P.O. #:	
Project No.:	

Client Information			Subcontract Laboratory Information		
Name: SGS Accutest New England			Name: Accutest - New Jersey		
Address: 50 D'Angelo Drive			Address: 2235 Route 130		
City: Marlborough	State: MA	Zip: 01752	City: Dayton	State: NJ	Zip: 08810
Send Report to:			Contact: Sample Management		
Any questions contact: Rob Soll					
Phone/Fax #: (508)481-6200 / (508)481-7753			Phone: (732) 329-0200		

Field ID / Point of Collection	Collection Date	Collection Time		Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	Replacement volume**					Comments
MC47057 -1 (JC24816-1)	7/26/16	12:30 PM		GW	1	X					X					E6

INITIAL ASESSMENT 3/ 2am

LABEL VERIFICATION 0

Data Deliverable Information

- [x]
- [ ] Other ____ (Days)

*Please notify SGS-Accutest if surcharges are applied.

10 Day Turnaround Hardcopy, RUSH is FAX Data unless previously approved.

- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] Commercial "BN"
- [ ] Reduced Tier 1
- [ ] Full Tier 1
- [ ] PDF
- [ ] Compact Disk Deliverable
- [ ] Electronic Delivery:
- [ ] State Forms
- [ ] Other (Specify)

Comments / Remarks

**Replacement volume for JC24816-1 (OSGP12-GWS). Please notify Tammy McCloskey and Oprep lab upon receipt, see attached email.

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

Relinquished by:	Date & Time:	Received By:	Date & Time:
1	7/29/16	1	1
2	7/30/16 10:20	2	7/30/16 10:20
3		3	3

Seal #: Headspace: Yes No NA

Preserved where applicable:

Temperature °C 2.3 On Ice

sm022-01 (10/30/14)

5.1 5

JC24816: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC24816

BMSMC, Building 5 Area, PR
Project No: 02i

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC24816-1	Collected: 26-JUL-16 12:30 By: TT		Received: 28-JUL-16 By: RL			
OSGP12-GWS						
JC24816-1	SW846 8270D BY SIM	03-AUG-16 16:16	SG	30-JUL-16	AC	B8270SIM14DIOX,BSIM + NAP
JC24816-2	Collected: 26-JUL-16 10:45 By: TT		Received: 28-JUL-16 By: RL			
OSGP12-GWD						
JC24816-2	SW846 8270D BY SIM	30-JUL-16 00:26	JJ	28-JUL-16	SD	B8270SIM14DIOX,BSIM + NAP
JC24816-3	Collected: 22-JUL-16 14:50 By: TT		Received: 28-JUL-16 By: RL			
OSGP14-GWS						
JC24816-3	SW846 8270D BY SIM	29-JUL-16 13:33	SG	28-JUL-16	SD	BSIM + NAP
JC24816-3	SW846 8270D BY SIM	29-JUL-16 15:54	AD	28-JUL-16	SD	B8270SIM14DIOX

SGS Accutest Internal Chain of Custody

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 07/28/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC24816-1.1	Secured Storage	Alfredo Crespo	07/28/16 15:11	Retrieve from Storage
JC24816-1.1	Alfredo Crespo	Secured Staging Area	07/28/16 15:11	Return to Storage
JC24816-1.1	Secured Staging Area	Ryan Fantasia	07/28/16 15:14	Retrieve from Storage
JC24816-1.1	Ryan Fantasia		07/28/16 22:33	Depleted
JC24816-1.1.1	Ryan Fantasia	Organics Prep	07/28/16 15:33	Extract from JC24816-1.1
JC24816-1.1.1	Organics Prep	Stephen Domke	07/28/16 21:47	Extract from JC24816-1.1
JC24816-1.1.1	Stephen Domke	Extract Storage	07/28/16 21:47	Return to Storage
JC24816-1.2	Secured Storage	Alfredo Crespo	07/28/16 15:11	Retrieve from Storage
JC24816-1.2	Alfredo Crespo	Secured Staging Area	07/28/16 15:11	Return to Storage
JC24816-1.2	Secured Staging Area	Ryan Fantasia	07/28/16 15:14	Retrieve from Storage
JC24816-1.2	Ryan Fantasia		07/28/16 22:33	Depleted
JC24816-1.3	Secured Storage	Anthony DiSanto	07/30/16 11:15	Retrieve from Storage
JC24816-1.3	Anthony DiSanto		07/30/16 11:25	Depleted
JC24816-1.3.1	Anthony DiSanto	Organics Prep	07/30/16 11:16	Extract from JC24816-1.3
JC24816-1.3.1	Organics Prep	Allan Chung-yew	07/30/16 15:17	Extract from JC24816-1.3
JC24816-1.3.1	Allan Chung-yew	Extract Storage	07/30/16 15:17	Return to Storage
JC24816-1.3.1	Extract Storage	Kristi Schollenberger	07/31/16 13:21	Retrieve from Storage
JC24816-1.3.1	Kristi Schollenberger	GCMS2M	07/31/16 13:21	Load on Instrument
JC24816-1.3.1	GCMS2M	Ashley Noble	08/01/16 10:32	Unload from Instrument
JC24816-1.3.1	Ashley Noble	Extract Freezer	08/01/16 10:32	Return to Storage
JC24816-2.2	Secured Storage	Alfredo Crespo	07/28/16 15:11	Retrieve from Storage
JC24816-2.2	Alfredo Crespo	Secured Staging Area	07/28/16 15:11	Return to Storage
JC24816-2.2	Secured Staging Area	Ryan Fantasia	07/28/16 15:14	Retrieve from Storage
JC24816-2.2	Ryan Fantasia		07/28/16 22:33	Depleted
JC24816-2.2.1	Ryan Fantasia	Organics Prep	07/28/16 15:33	Extract from JC24816-2.2
JC24816-2.2.1	Organics Prep	Stephen Domke	07/28/16 21:47	Extract from JC24816-2.2
JC24816-2.2.1	Stephen Domke	Extract Storage	07/28/16 21:47	Return to Storage
JC24816-2.2.1	Extract Storage	Shanice Grant	07/29/16 10:04	Retrieve from Storage
JC24816-2.2.1	Shanice Grant	GCMS3M	07/29/16 10:04	Load on Instrument
JC24816-2.2.1	GCMS3M	Julius Johnson	07/29/16 23:34	Unload from Instrument
JC24816-2.2.1	Julius Johnson	Extract Freezer	07/29/16 23:34	Return to Storage
JC24816-2.2.1	Extract Freezer	Julius Johnson	07/29/16 23:59	Retrieve from Storage
JC24816-2.2.1	Julius Johnson	GCMS3P	07/29/16 23:59	Load on Instrument
JC24816-3.2	Secured Storage	Alfredo Crespo	07/28/16 15:11	Retrieve from Storage
JC24816-3.2	Alfredo Crespo	Secured Staging Area	07/28/16 15:11	Return to Storage
JC24816-3.2	Secured Staging Area	Ryan Fantasia	07/28/16 15:14	Retrieve from Storage
JC24816-3.2	Ryan Fantasia		07/28/16 22:33	Depleted

SGS Accutest Internal Chain of Custody

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 07/28/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC24816-3.2.1	Ryan Fantasia	Organics Prep	07/28/16 15:33	Extract from JC24816-3.2
JC24816-3.2.1	Organics Prep	Stephen Domke	07/28/16 21:47	Extract from JC24816-3.2
JC24816-3.2.1	Stephen Domke	Extract Storage	07/28/16 21:47	Return to Storage
JC24816-3.2.1	Extract Storage	Shanice Grant	07/29/16 10:04	Retrieve from Storage
JC24816-3.2.1	Shanice Grant	GCMS3M	07/29/16 10:04	Load on Instrument
JC24816-3.2.1	GCMS3M	Julius Johnson	07/29/16 23:34	Unload from Instrument
JC24816-3.2.1	Julius Johnson	Extract Freezer	07/29/16 23:34	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: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95904A-MB1 [a]	3M63330.D	1	07/29/16	SG	07/28/16	OP95904A	E3M3000

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

JC24816-2, JC24816-3

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	67%	24-125%
321-60-8	2-Fluorobiphenyl	69%	19-127%
1718-51-0	Terphenyl-d14	79%	10-119%

(a) Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.

Method Blank Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95904A-MB1 [a]	3P55370.D	1	07/29/16	JJ	07/28/16	OP95904A	E3P2531

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

JC24816-2, JC24816-3

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	63%	24-125%
321-60-8	2-Fluorobiphenyl	62%	19-127%
1718-51-0	Terphenyl-d14	68%	10-119%

(a) Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.

Method Blank Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95939A-MB1	3M63393.D	1	08/02/16	SG	07/30/16	OP95939A	E3M3004

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

JC24816-1

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	21%	14-81%
4165-62-2	Phenol-d5	17%	11-54%
118-79-6	2,4,6-Tribromophenol	42%	35-145%
4165-60-0	Nitrobenzene-d5	57%	24-125%
321-60-8	2-Fluorobiphenyl	54%	19-127%
1718-51-0	Terphenyl-d14	72%	10-119%

Method Blank Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95939A-MB1	3P55421.D	1	08/02/16	AD	07/30/16	OP95939A	E3P2534

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

JC24816-1

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	27%	14-81%
4165-62-2	Phenol-d5	21%	11-54%
118-79-6	2,4,6-Tribromophenol	65%	35-145%
4165-60-0	Nitrobenzene-d5	60%	24-125%
321-60-8	2-Fluorobiphenyl	46%	19-127%
1718-51-0	Terphenyl-d14	61%	10-119%

Blank Spike Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95904A-BS12 [a]	3M63331.D	1	07/29/16	SG	07/28/16	OP95904A	E3M3000

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

JC24816-2, JC24816-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.591	59	40-119
123-91-1	1,4-Dioxane	1	0.398	40	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	70%	24-125%
321-60-8	2-Fluorobiphenyl	72%	19-127%
1718-51-0	Terphenyl-d14	84%	10-119%

(a) Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95939A-BS12 [a]	3P55422.D	1	08/02/16	AD	07/30/16	OP95939A	E3P2534

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

JC24816-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.470	47	40-119
123-91-1	1,4-Dioxane	1	0.475	48	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	33%	14-81%
4165-62-2	Phenol-d5	25%	11-54%
118-79-6	2,4,6-Tribromophenol	67%	35-145%
4165-60-0	Nitrobenzene-d5	57%	24-125%
321-60-8	2-Fluorobiphenyl	44%	19-127%
1718-51-0	Terphenyl-d14	60%	10-119%

(a) low for full list

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95939A-MS	3P55591.D	1	08/09/16	AD	07/30/16	OP95939A	E3P2546
OP95939A-MSD	3P55592.D	1	08/09/16	AD	07/30/16	OP95939A	E3P2546
JC24878-2	3P55550.D	1	08/06/16	SG	07/30/16	OP95939A	E3P2541

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

JC24816-1

CAS No.	Compound	JC24878-2 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	0.176		2	1.08	45	2	1.06	44	2	23-140/36
123-91-1	1,4-Dioxane	ND		2	0.880	44	2	0.576	29	42* [a]	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC24878-2	Limits
367-12-4	2-Fluorophenol	39%	37%	29%	14-81%
4165-62-2	Phenol-d5	33%	33%	22%	11-54%
118-79-6	2,4,6-Tribromophenol	93%	90%	82%	35-145%
4165-60-0	Nitrobenzene-d5	56%	53%	57%	24-125%
321-60-8	2-Fluorobiphenyl	60%	76%	57%	19-127%
1718-51-0	Terphenyl-d14	78%	72%	51%	10-119%

(a) Analytical precision exceeds in-house control limits.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2975-DFTPP
Lab File ID: 3M62949.D
Instrument ID: GCMS3M
Injection Date: 07/14/16
Injection Time: 09:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	93493	45.9		Pass
68	Less than 2.0% of mass 69	952	0.47	(0.96) [a]	Pass
69	Mass 69 relative abundance	99021	48.6		Pass
70	Less than 2.0% of mass 69	292	0.14	(0.29) [a]	Pass
127	40.0 - 60.0% of mass 198	104053	51.0		Pass
197	Less than 1.0% of mass 198	639	0.31		Pass
198	Base peak, 100% relative abundance	203896	100.0		Pass
199	5.0 - 9.0% of mass 198	14288	7.01		Pass
275	10.0 - 30.0% of mass 198	46742	22.9		Pass
365	1.0 - 100.0% of mass 198	7258	3.56		Pass
441	Present, but less than mass 443	26169	12.8	(77.8) [b]	Pass
442	40.0 - 100.0% of mass 198	174995	85.8		Pass
443	17.0 - 23.0% of mass 442	33633	16.5	(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
E3M2975-IC2975	3M62950.D	07/14/16	10:23	00:53	Initial cal 0.2
E3M2975-IC2975	3M62951.D	07/14/16	10:55	01:25	Initial cal 0.1
E3M2975-IC2975	3M62952.D	07/14/16	11:28	01:58	Initial cal 0.05
E3M2975-IC2975	3M62953.D	07/14/16	12:01	02:31	Initial cal 0.02
E3M2975-IC2975	3M62954.D	07/14/16	12:34	03:04	Initial cal 0.01
E3M2975-IC2975	3M62955.D	07/14/16	13:07	03:37	Initial cal 5.0
E3M2975-IC2975	3M62956.D	07/14/16	13:40	04:10	Initial cal 2.5
E3M2975-ICC2975	3M62957.D	07/14/16	14:13	04:43	Initial cal 1.0
E3M2975-IC2975	3M62958.D	07/14/16	14:47	05:17	Initial cal 0.5

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M2976-DFTPP
Lab File ID: 3M62961.D
Instrument ID: GCMS3M
Injection Date: 07/14/16
Injection Time: 17:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	95013	46.3		Pass
68	Less than 2.0% of mass 69	3	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	96831	47.2		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	109997	53.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	205083	100.0		Pass
199	5.0 - 9.0% of mass 198	13647	6.65		Pass
275	10.0 - 30.0% of mass 198	47211	23.0		Pass
365	1.0 - 100.0% of mass 198	8163	3.98		Pass
441	Present, but less than mass 443	27820	13.6	(76.4) [b]	Pass
442	40.0 - 100.0% of mass 198	184928	90.2		Pass
443	17.0 - 23.0% of mass 442	36390	17.7	(19.7) [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
E3M2976-ICV2975	3M62962.D	07/14/16	17:18	00:14	Initial cal verification 1.0
E3M2976-ICV2975	3M62963.D	07/14/16	17:51	00:47	Initial cal verification 1.0

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M3000-DFTPP
Lab File ID: 3M63326.D
Instrument ID: GCMS3M
Injection Date: 07/29/16
Injection Time: 08:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	93903	51.3		Pass
68	Less than 2.0% of mass 69	582	0.32	(0.64) [a]	Pass
69	Mass 69 relative abundance	91071	49.7		Pass
70	Less than 2.0% of mass 69	331	0.18	(0.36) [a]	Pass
127	40.0 - 60.0% of mass 198	104544	57.1		Pass
197	Less than 1.0% of mass 198	1784	0.97		Pass
198	Base peak, 100% relative abundance	183171	100.0		Pass
199	5.0 - 9.0% of mass 198	12356	6.75		Pass
275	10.0 - 30.0% of mass 198	44907	24.5		Pass
365	1.0 - 100.0% of mass 198	9222	5.03		Pass
441	Present, but less than mass 443	16139	8.81	(79.9) [b]	Pass
442	40.0 - 100.0% of mass 198	105677	57.7		Pass
443	17.0 - 23.0% of mass 442	20203	11.0	(19.1) [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
E3M3000-CC2975	3M63327.D	07/29/16	08:52	00:18	Continuing cal 0.5
OP95878A-MB1	3M63328.D	07/29/16	09:42	01:08	Method Blank
OP95878A-BS12	3M63329.D	07/29/16	10:15	01:41	Blank Spike
OP95904A-MB1	3M63330.D	07/29/16	10:48	02:14	Method Blank
OP95904A-BS12	3M63331.D	07/29/16	11:21	02:47	Blank Spike
JC24816-3	3M63335.D	07/29/16	13:33	04:59	OSGP14-GWS
OP95878A-MS	3M63336.D	07/29/16	14:06	05:32	Matrix Spike
OP95878A-MSD	3M63337.D	07/29/16	14:39	06:05	Matrix Spike Duplicate
JC24650-1	3M63338.D	07/29/16	15:12	06:38	(used for QC only; not part of job JC24816)
OP95661A-MB1	3M63344.D	07/29/16	15:45	07:11	Method Blank
OP95661A-BS12	3M63345.D	07/29/16	16:18	07:44	Blank Spike
ZZZZZZ	3M63346.D	07/29/16	16:51	08:17	(unrelated sample)
ZZZZZZ	3M63339.D	07/29/16	17:24	08:50	(unrelated sample)
ZZZZZZ	3M63340.D	07/29/16	17:58	09:24	(unrelated sample)
ZZZZZZ	3M63341.D	07/29/16	18:31	09:57	(unrelated sample)
ZZZZZZ	3M63342.D	07/29/16	19:04	10:30	(unrelated sample)
ZZZZZZ	3M63343.D	07/29/16	19:37	11:03	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M3004-DFTPP
Lab File ID: 3M63390.D
Instrument ID: GCMS3M
Injection Date: 08/02/16
Injection Time: 10:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	172058	55.8		Pass
68	Less than 2.0% of mass 69	1530	0.50	(0.97) [a]	Pass
69	Mass 69 relative abundance	157016	50.9		Pass
70	Less than 2.0% of mass 69	1233	0.40	(0.79) [a]	Pass
127	40.0 - 60.0% of mass 198	183775	59.6		Pass
197	Less than 1.0% of mass 198	2113	0.69		Pass
198	Base peak, 100% relative abundance	308459	100.0		Pass
199	5.0 - 9.0% of mass 198	22647	7.34		Pass
275	10.0 - 30.0% of mass 198	80397	26.1		Pass
365	1.0 - 100.0% of mass 198	17502	5.67		Pass
441	Present, but less than mass 443	35098	11.4	(86.0) [b]	Pass
442	40.0 - 100.0% of mass 198	214451	69.5		Pass
443	17.0 - 23.0% of mass 442	40831	13.2	(19.0) [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
E3M3004-CC2975	3M63391.D	08/02/16	11:08	00:12	Continuing cal 0.5
OP94535A-LB34	3M63392.D	08/02/16	11:46	00:50	Leachate Blank
OP95939A-MB1	3M63393.D	08/02/16	12:31	01:35	Method Blank
ZZZZZZ	3M63395.D	08/02/16	13:04	02:08	(unrelated sample)
ZZZZZZ	3M63396.D	08/02/16	13:37	02:41	(unrelated sample)
ZZZZZZ	3M63397.D	08/02/16	14:10	03:14	(unrelated sample)
ZZZZZZ	3M63398.D	08/02/16	14:43	03:47	(unrelated sample)
ZZZZZZ	3M63399.D	08/02/16	15:16	04:20	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3M3006-DFTPP
Lab File ID: 3M63422.D
Instrument ID: GCMS3M
Injection Date: 08/03/16
Injection Time: 10:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	121988	48.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	118761	47.1		Pass
70	Less than 2.0% of mass 69	673	0.27	(0.57) [a]	Pass
127	40.0 - 60.0% of mass 198	136731	54.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	252400	100.0		Pass
199	5.0 - 9.0% of mass 198	15999	6.34		Pass
275	10.0 - 30.0% of mass 198	64603	25.6		Pass
365	1.0 - 100.0% of mass 198	10585	4.19		Pass
441	Present, but less than mass 443	30067	11.9	(89.1) [b]	Pass
442	40.0 - 100.0% of mass 198	166061	65.8		Pass
443	17.0 - 23.0% of mass 442	33749	13.4	(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
E3M3006-CC2975	3M63423.D	08/03/16	11:11	00:15	Continuing cal 0.5
ZZZZZZ	3M63424.D	08/03/16	11:53	00:57	(unrelated sample)
ZZZZZZ	3M63425.D	08/03/16	12:26	01:30	(unrelated sample)
ZZZZZZ	3M63426.D	08/03/16	12:59	02:03	(unrelated sample)
ZZZZZZ	3M63427.D	08/03/16	13:31	02:35	(unrelated sample)
ZZZZZZ	3M63428.D	08/03/16	14:04	03:08	(unrelated sample)
ZZZZZZ	3M63429.D	08/03/16	14:37	03:41	(unrelated sample)
ZZZZZZ	3M63430.D	08/03/16	15:10	04:14	(unrelated sample)
ZZZZZZ	3M63431.D	08/03/16	15:43	04:47	(unrelated sample)
JC24816-1	3M63435.D	08/03/16	16:16	05:20	OSGP12-GWS
ZZZZZZ	3M63432.D	08/03/16	16:48	05:52	(unrelated sample)
ZZZZZZ	3M63436.D	08/03/16	17:21	06:25	(unrelated sample)
ZZZZZZ	3M63433.D	08/03/16	17:54	06:58	(unrelated sample)
ZZZZZZ	3M63434.D	08/03/16	18:27	07:31	(unrelated sample)
ZZZZZZ	3M63437.D	08/03/16	19:00	08:04	(unrelated sample)
ZZZZZZ	3M63438.D	08/03/16	19:33	08:37	(unrelated sample)
ZZZZZZ	3M63439.D	08/03/16	20:05	09:09	(unrelated sample)
ZZZZZZ	3M63441.D	08/03/16	21:11	10:15	(unrelated sample)
ZZZZZZ	3M63442.D	08/03/16	21:44	10:48	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, 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: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2531-DFTPP
Lab File ID: 3P55368.D
Instrument ID: GCMS3P
Injection Date: 07/29/16
Injection Time: 22:07

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	109883	39.0		Pass
68	Less than 2.0% of mass 69	1700	0.60	(1.43) [a]	Pass
69	Mass 69 relative abundance	118994	42.3		Pass
70	Less than 2.0% of mass 69	404	0.14	(0.34) [a]	Pass
127	40.0 - 60.0% of mass 198	141256	50.2		Pass
197	Less than 1.0% of mass 198	2656	0.94		Pass
198	Base peak, 100% relative abundance	281461	100.0		Pass
199	5.0 - 9.0% of mass 198	19208	6.82		Pass
275	10.0 - 30.0% of mass 198	65752	23.4		Pass
365	1.0 - 100.0% of mass 198	8766	3.11		Pass
441	Present, but less than mass 443	31152	11.1	(80.3) [b]	Pass
442	40.0 - 100.0% of mass 198	200405	71.2		Pass
443	17.0 - 23.0% of mass 442	38789	13.8	(19.4) [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
E3P2531-CC2503	3P55369.D	07/29/16	22:19	00:12	Continuing cal 0.5
OP95904A-MB1	3P55370.D	07/29/16	23:56	01:49	Method Blank
JC24816-2	3P55371.D	07/30/16	00:26	02:19	OSGP12-GWD

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2534-DFTPP
Lab File ID: 3P55400.D
Instrument ID: GCMS3P
Injection Date: 08/02/16
Injection Time: 08:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	65780	37.2		Pass
68	Less than 2.0% of mass 69	834	0.47	(1.15) [a]	Pass
69	Mass 69 relative abundance	72656	41.1		Pass
70	Less than 2.0% of mass 69	253	0.14	(0.35) [a]	Pass
127	40.0 - 60.0% of mass 198	85875	48.6		Pass
197	Less than 1.0% of mass 198	1192	0.67		Pass
198	Base peak, 100% relative abundance	176699	100.0		Pass
199	5.0 - 9.0% of mass 198	12012	6.80		Pass
275	10.0 - 30.0% of mass 198	40499	22.9		Pass
365	1.0 - 100.0% of mass 198	5432	3.07		Pass
441	Present, but less than mass 443	20462	11.6	(78.8) [b]	Pass
442	40.0 - 100.0% of mass 198	137056	77.6		Pass
443	17.0 - 23.0% of mass 442	25979	14.7	(19.0) [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
E3P2534-CC2503	3P55401.D	08/02/16	09:07	00:12	Continuing cal 1
ZZZZZZ	3P55402.D	08/02/16	09:45	00:50	(unrelated sample)
ZZZZZZ	3P55403A.D	08/02/16	10:51	01:56	(unrelated sample)
ZZZZZZ	3P55404.D	08/02/16	11:23	02:28	(unrelated sample)
ZZZZZZ	3P55405.D	08/02/16	11:56	03:01	(unrelated sample)
OP95939A-MB1	3P55421.D	08/02/16	13:02	04:07	Method Blank
OP95939A-BS12	3P55422.D	08/02/16	13:35	04:40	Blank Spike
ZZZZZZ	3P55423.D	08/02/16	14:08	05:13	(unrelated sample)
ZZZZZZ	3P55407.D	08/02/16	14:41	05:46	(unrelated sample)
OP95661A-MS	3P55408.D	08/02/16	15:13	06:18	Matrix Spike
OP95661A-MSD	3P55409.D	08/02/16	15:46	06:51	Matrix Spike Duplicate
OP95821A-MB1	3P55410.D	08/02/16	16:18	07:23	Method Blank
OP95821A-BS12	3P55411.D	08/02/16	16:51	07:56	Blank Spike
OP95821A-MS	3P55412.D	08/02/16	17:23	08:28	Matrix Spike
OP95821A-MSD	3P55413.D	08/02/16	17:56	09:01	Matrix Spike Duplicate
JC24549-20	3P55414.D	08/02/16	18:28	09:33	(used for QC only; not part of job JC24816)
ZZZZZZ	3P55415.D	08/02/16	19:00	10:05	(unrelated sample)
ZZZZZZ	3P55416.D	08/02/16	19:32	10:37	(unrelated sample)
ZZZZZZ	3P55418.D	08/02/16	20:35	11:40	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: E3P2546-DFTPP
Lab File ID: 3P55585.D
Instrument ID: GCMS3P
Injection Date: 08/09/16
Injection Time: 14:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	77656	33.5		Pass
68	Less than 2.0% of mass 69	951	0.41	(1.09) [a]	Pass
69	Mass 69 relative abundance	87351	37.7		Pass
70	Less than 2.0% of mass 69	331	0.14	(0.38) [a]	Pass
127	40.0 - 60.0% of mass 198	109705	47.4		Pass
197	Less than 1.0% of mass 198	1219	0.53		Pass
198	Base peak, 100% relative abundance	231597	100.0		Pass
199	5.0 - 9.0% of mass 198	15096	6.52		Pass
275	10.0 - 30.0% of mass 198	55130	23.8		Pass
365	1.0 - 100.0% of mass 198	7983	3.45		Pass
441	Present, but less than mass 443	27961	12.1	(83.5) [b]	Pass
442	40.0 - 100.0% of mass 198	182904	79.0		Pass
443	17.0 - 23.0% of mass 442	33479	14.5	(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
E3P2546-CC2503	3P55586.D	08/09/16	14:35	00:09	Continuing cal 0.5
OP95939A-MS	3P55591.D	08/09/16	15:43	01:17	Matrix Spike
OP95939A-MSD	3P55592.D	08/09/16	16:14	01:48	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4681-DFTPP
Lab File ID: P105967.D
Instrument ID: GCMSP
Injection Date: 07/11/16
Injection Time: 08:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	44729	46.6		Pass
68	Less than 2.0% of mass 69	971	1.01	(1.86) [a]	Pass
69	Mass 69 relative abundance	52157	54.3		Pass
70	Less than 2.0% of mass 69	124	0.13	(0.24) [a]	Pass
127	40.0 - 60.0% of mass 198	55354	57.7		Pass
197	Less than 1.0% of mass 198	195	0.20		Pass
198	Base peak, 100% relative abundance	95994	100.0		Pass
199	5.0 - 9.0% of mass 198	6194	6.45		Pass
275	10.0 - 30.0% of mass 198	19648	20.5		Pass
365	1.0 - 100.0% of mass 198	2397	2.50		Pass
441	Present, but less than mass 443	6575	6.85	(73.8) [b]	Pass
442	40.0 - 100.0% of mass 198	39203	40.8		Pass
443	17.0 - 23.0% of mass 442	8912	9.28	(22.7) [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
EP4681-ICC4681	P105969.D	07/11/16	09:31	00:54	Initial cal 50
EP4681-IC4681	P105970.D	07/11/16	10:00	01:23	Initial cal 100
EP4681-IC4681	P105976.D	07/11/16	10:29	01:52	Initial cal 1
EP4681-IC4681	P105975.D	07/11/16	10:58	02:21	Initial cal 2
EP4681-IC4681	P105971.D	07/11/16	11:27	02:50	Initial cal 80
EP4681-IC4681	P105972A.D	07/11/16	12:25	03:48	Initial cal 25
EP4681-IC4681	P105973.D	07/11/16	12:57	04:20	Initial cal 10
EP4681-IC4681	P105974.D	07/11/16	13:29	04:52	Initial cal 5

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4682-DFTPP
Lab File ID: P105977.D
Instrument ID: GCMSP
Injection Date: 07/11/16
Injection Time: 15:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	62520	41.0		Pass
68	Less than 2.0% of mass 69	1082	0.71	(1.42) [a]	Pass
69	Mass 69 relative abundance	76442	50.1		Pass
70	Less than 2.0% of mass 69	398	0.26	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	80920	53.1		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	152504	100.0		Pass
199	5.0 - 9.0% of mass 198	10247	6.72		Pass
275	10.0 - 30.0% of mass 198	30823	20.2		Pass
365	1.0 - 100.0% of mass 198	3617	2.37		Pass
441	Present, but less than mass 443	10468	6.86	(75.0) [b]	Pass
442	40.0 - 100.0% of mass 198	63599	41.7		Pass
443	17.0 - 23.0% of mass 442	13961	9.15	(22.0) [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
EP4682-IC4682	P105978.D	07/11/16	15:49	00:25	Initial cal 100
EP4682-IC4682	P105979.D	07/11/16	16:22	00:58	Initial cal 80
EP4682-ICC4682	P105980.D	07/11/16	16:51	01:27	Initial cal 50
EP4682-IC4682	P105981.D	07/11/16	17:20	01:56	Initial cal 25
EP4682-IC4682	P105982.D	07/11/16	17:49	02:25	Initial cal 10
EP4682-IC4682	P105983.D	07/11/16	18:18	02:54	Initial cal 5
EP4682-IC4682	P105984.D	07/11/16	18:47	03:23	Initial cal 2
EP4682-IC4682	P105985.D	07/11/16	19:16	03:52	Initial cal 1
EP4682-ICV4681	P105986.D	07/11/16	19:46	04:22	Initial cal verification 50
EP4682-ICV4681	P105987.D	07/11/16	20:15	04:51	Initial cal verification 50
EP4682-ICV4681	P105988.D	07/11/16	20:44	05:20	Initial cal verification 50
EP4682-ICV4682	P105988A.D	07/11/16	20:44	05:20	Initial cal verification 50
EP4682-ICV4681	P105990.D	07/11/16	21:42	06:18	Initial cal verification 50
EP4682-ICV4681	P105991.D	07/11/16	22:11	06:47	Initial cal verification 50
EP4682-ICV4682	P105992.D	07/11/16	22:40	07:16	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4683-DFTPP
Lab File ID: P105997.D
Instrument ID: GCMSP
Injection Date: 07/12/16
Injection Time: 16:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	36464	41.0		Pass
68	Less than 2.0% of mass 69	770	0.87	(1.71) [a]	Pass
69	Mass 69 relative abundance	44922	50.5		Pass
70	Less than 2.0% of mass 69	172	0.19	(0.38) [a]	Pass
127	40.0 - 60.0% of mass 198	48794	54.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	88893	100.0		Pass
199	5.0 - 9.0% of mass 198	5860	6.59		Pass
275	10.0 - 30.0% of mass 198	17662	19.9		Pass
365	1.0 - 100.0% of mass 198	2500	2.81		Pass
441	Present, but less than mass 443	6000	6.75	(82.0) [b]	Pass
442	40.0 - 100.0% of mass 198	35880	40.4		Pass
443	17.0 - 23.0% of mass 442	7315	8.23	(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
EP4683-ICV4681	P105998.D	07/12/16	16:43	00:24	Initial cal verification 50
EP4683-ICV4682	P105998A.D	07/12/16	16:43	00:24	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: EP4706-DFTPP
Lab File ID: P106446.D
Instrument ID: GCMSP
Injection Date: 07/29/16
Injection Time: 08:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	39090	35.5		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	46430	42.2		Pass
70	Less than 2.0% of mass 69	482	0.44	(1.04) [a]	Pass
127	40.0 - 60.0% of mass 198	50136	45.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	109970	100.0		Pass
199	5.0 - 9.0% of mass 198	8102	7.37		Pass
275	10.0 - 30.0% of mass 198	25924	23.6		Pass
365	1.0 - 100.0% of mass 198	2827	2.57		Pass
441	Present, but less than mass 443	10098	9.18	(80.0) [b]	Pass
442	40.0 - 100.0% of mass 198	61328	55.8		Pass
443	17.0 - 23.0% of mass 442	12617	11.5	(20.6) [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
EP4706-CC4681	P106447.D	07/29/16	09:10	00:13	Continuing cal 25
EP4706-CC4682	P106448.D	07/29/16	09:49	00:52	Continuing cal 25
OP95904-MB1	P106450.D	07/29/16	10:52	01:55	Method Blank
OP95904-BS1	P106451.D	07/29/16	11:22	02:25	Blank Spike
ZZZZZZ	P106453.D	07/29/16	11:56	02:59	(unrelated sample)
OP95821-MB1	P106465.D	07/29/16	12:25	03:28	Method Blank
ZZZZZZ	P106467.D	07/29/16	13:23	04:26	(unrelated sample)
ZZZZZZ	P106454.D	07/29/16	13:52	04:55	(unrelated sample)
ZZZZZZ	P106455.D	07/29/16	14:21	05:24	(unrelated sample)
JC24784-3	P106456.D	07/29/16	14:50	05:53	(used for QC only; not part of job JC24816)
ZZZZZZ	P106457.D	07/29/16	15:19	06:22	(unrelated sample)
JC24816-3	P106468.D	07/29/16	15:54	06:57	OSGP14-GWS
ZZZZZZ	P106458.D	07/29/16	16:23	07:26	(unrelated sample)
ZZZZZZ	P106459.D	07/29/16	17:26	08:29	(unrelated sample)
ZZZZZZ	P106460.D	07/29/16	17:55	08:58	(unrelated sample)
ZZZZZZ	P106461.D	07/29/16	18:24	09:27	(unrelated sample)
ZZZZZZ	P106462.D	07/29/16	18:52	09:55	(unrelated sample)
OP95904-MS	P106463.D	07/29/16	19:21	10:24	Matrix Spike
OP95904-MSD	P106464.D	07/29/16	19:51	10:54	Matrix Spike Duplicate

Semivolatile Internal Standard Area Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M3000-CC2975	**Injection Date:**	07/29/16
Lab File ID:	3M63327.D	**Injection Time:**	08:52
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	326122	10.22	426045	13.22	672323	17.45	461460	22.07
Upper Limit [a]	652244	10.72	852090	13.72	1344646	17.95	922920	22.57
Lower Limit [b]	163061	9.72	213023	12.72	336162	16.95	230730	21.57

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95878A-MB1	399807	10.22	508620	13.22	775645	17.45	552087	22.07
OP95878A-BS12	404675	10.22	496887	13.22	771495	17.45	470742	22.07
OP95904A-MB1 [c]	347244	10.22	420987	13.22	652729	17.45	496114	22.07
OP95904A-BS12 [c]	335112	10.22	407272	13.22	624228	17.45	482330	22.07
JC24816-3 [c]	302672	10.22	353524	13.22	588129	17.45	448467	22.07
OP95878A-MS	385169	10.22	469131	13.22	677412	17.45	447397	22.07
OP95878A-MSD	379041	10.22	462656	13.22	663515	17.45	427789	22.07
JC24650-1	389829	10.22	462165	13.22	690922	17.45	451976	22.07
OP95661A-MB1	455782	10.22	791842	13.22	1219678	17.45	784132	22.07
OP95661A-BS12	404010	10.22	504546	13.22	766847	17.45	567690	22.07
ZZZZZZ	430171	10.22	724160	13.22	1151749	17.45	731592	22.07
ZZZZZZ	368607	10.22	433478	13.22	686812	17.45	506586	22.07
ZZZZZZ	408902	10.22	483709	13.22	761081	17.45	572400	22.07
ZZZZZZ	380441	10.22	455852	13.22	748404	17.45	540998	22.07
ZZZZZZ	392641	10.22	477817	13.22	650717	17.46	441155	22.09
ZZZZZZ	351351	10.22	428424	13.22	665118	17.45	415702	22.07

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.
(c) Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.

Semivolatile Internal Standard Area Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M3004-CC2975	**Injection Date:**	08/02/16
Lab File ID:	3M63391.D	**Injection Time:**	11:08
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	360456	10.10	494837	13.11	824313	17.34	390331	21.98
Upper Limit [a]	720912	10.60	989674	13.61	1648626	17.84	780662	22.48
Lower Limit [b]	180228	9.60	247419	12.61	412157	16.84	195166	21.48

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP94535A-LB34	378569	10.10	485627	13.11	823240	17.34	394948	21.98
OP95939A-MB1	419995	10.10	548385	13.11	844861	17.34	422043	21.98
ZZZZZZ	427925	10.10	597178	13.11	930669	17.34	464330	21.98
ZZZZZZ	436639	10.10	606328	13.11	948871	17.34	510458	21.98
ZZZZZZ	457243	10.10	594464	13.11	924670	17.34	556505	21.98
ZZZZZZ	441106	10.10	574569	13.11	878919	17.34	536776	21.98
ZZZZZZ	476858	10.10	624319	13.11	908886	17.34	612734	21.98

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: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3M3006-CC2975	**Injection Date:**	08/03/16
Lab File ID:	3M63423.D	**Injection Time:**	11:11
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	356282	10.06	515051	13.05	807464	17.30	535178	21.94
Upper Limit [a]	712564	10.56	1030102	13.55	1614928	17.80	1070356	22.44
Lower Limit [b]	178141	9.56	257526	12.55	403732	16.80	267589	21.44

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	382187	10.06	485953	13.05	787692	17.30	512791	21.93
ZZZZZZ	402370	10.06	551391	13.05	865410	17.30	536875	21.93
ZZZZZZ	404437	10.06	544144	13.05	874406	17.30	516689	21.93
ZZZZZZ	377877	10.06	524804	13.05	810249	17.30	498219	21.93
ZZZZZZ	381528	10.06	513204	13.05	776037	17.30	478090	21.93
ZZZZZZ	410980	10.06	547796	13.05	848260	17.30	552707	21.93
ZZZZZZ	424803	10.06	558784	13.05	905431	17.30	634204	21.93
ZZZZZZ	356321	10.06	414658	13.07	551191	17.35	386593	21.95
JC24816-1	405107	10.06	590641	13.05	911850	17.30	553765	21.93
ZZZZZZ	391707	10.06	518414	13.05	763254	17.30	468279	21.93
ZZZZZZ	430865	10.06	570868	13.05	887556	17.30	543722	21.93
ZZZZZZ	401235	10.06	549553	13.05	852117	17.30	505081	21.93
ZZZZZZ	378610	10.06	509287	13.05	810033	17.30	572429	21.93
ZZZZZZ	376143	10.06	586736	13.07	740936	17.32	416011	21.93
ZZZZZZ	395636	10.06	524484	13.05	778172	17.30	468217	21.93
ZZZZZZ	376962	10.06	519856	13.05	810178	17.30	539765	21.93
ZZZZZZ	434171	10.06	557736	13.05	785424	17.29	498508	21.93
ZZZZZZ	520781	10.06	660090	13.05	867691	17.30	541386	21.93

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: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3P2531-CC2503	**Injection Date:**	07/29/16
Lab File ID:	3P55369.D	**Injection Time:**	22:19
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	84776	10.84	111239	13.81	173885	17.98	118484	22.53
Upper Limit [a]	169552	11.34	222478	14.31	347770	18.48	236968	23.03
Lower Limit [b]	42388	10.34	55620	13.31	86943	17.48	59242	22.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95904A-MB1 [c]	68256	10.84	86621	13.81	128709	17.98	87875	22.55
JC24816-2 [c]	75046	10.84	86477	13.81	133061	17.98	95342	22.53

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.
(c) Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.

Semivolatile Internal Standard Area Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3P2534-CC2503	**Injection Date:**	08/02/16
Lab File ID:	3P55401.D	**Injection Time:**	09:07
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	66646	10.77	111093	13.74	168107	17.91	123544	22.48
Upper Limit [a]	133292	11.27	222186	14.24	336214	18.41	247088	22.98
Lower Limit [b]	33323	10.27	55547	13.24	84054	17.41	61772	21.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	58687	10.77	87511	13.74	123527	17.91	93310	22.48
ZZZZZZ	54197	10.77	81138	13.74	123346	17.91	98662	22.48
ZZZZZZ	62780	10.77	94337	13.74	144608	17.91	115426	22.48
ZZZZZZ	55389	10.77	82802	13.74	127721	17.91	106767	22.48
OP95939A-MB1	73226	10.77	116523	13.74	172162	17.91	135242	22.48
OP95939A-BS12 [c]	84499	10.77	134429	13.74	203571	17.91	152660	22.48
ZZZZZZ	76093	10.77	117177	13.74	176774	17.91	136276	22.48
ZZZZZZ	65270	10.77	99899	13.74	138900	17.91	114281	22.48
OP95661A-MS	51406	10.77	80968	13.74	119493	17.91	93444	22.48
OP95661A-MSD	53427	10.77	87890	13.74	129846	17.91	100173	22.48
OP95821A-MB1	92943	10.77	146213	13.74	209158	17.91	164232	22.48
OP95821A-BS12	86698	10.77	140144	13.74	206236	17.91	155549	22.48
OP95821A-MS	48865	10.77	75993	13.74	117429	17.91	84086	22.48
OP95821A-MSD	74835	10.77	114730	13.74	179725	17.91	133570	22.48
JC24549-20	85664	10.77	131743	13.74	203173	17.91	157193	22.48
ZZZZZZ	80529	10.77	121952	13.74	178001	17.91	150445	22.48
ZZZZZZ	73522	10.77	119649	13.74	172165	17.91	141301	22.48
ZZZZZZ	73494	10.77	75148	13.74	133562	17.92	107589	22.48

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.
(c) low for full list

Semivolatile Internal Standard Area Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	E3P2546-CC2503	**Injection Date:**	08/09/16
Lab File ID:	3P55586.D	**Injection Time:**	14:35
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	93673	10.84	145013	13.81	237955	17.97	202189	22.53
Upper Limit [a]	187346	11.34	290026	14.31	475910	18.47	404378	23.03
Lower Limit [b]	46837	10.34	72507	13.31	118978	17.47	101095	22.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95939A-MS	128510	10.84	188202	13.80	288496	17.97	206649	22.53
OP95939A-MSD	112822	10.84	128021	13.80	212379	17.97	164417	22.53

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: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	EP4706-CC4681	**Injection Date:**	07/29/16
Lab File ID:	P106447.D	**Injection Time:**	09:10
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	107977	4.38	405786	5.30	254041	6.63	468900	8.36	461345	13.48	407587	16.50
Upper Limit [a]	215954	4.88	811572	5.80	508082	7.13	937800	8.86	922690	13.98	815174	17.00
Lower Limit [b]	53989	3.88	202893	4.80	127021	6.13	234450	7.86	230673	12.98	203794	16.00

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
OP95904-MB1	127079	4.38	470673	5.30	288772	6.62	520947	8.36	442241	13.46	384660	16.48
OP95904-BS1	134478	4.38	483549	5.30	304036	6.62	546120	8.36	451581	13.47	407891	16.48
ZZZZZZ	138122	4.38	515538	5.30	314601	6.62	557537	8.36	470040	13.46	407297	16.48
OP95821-MB1	146851	4.38	516390	5.30	323900	6.62	574092	8.35	578976	13.46	533931	16.48
ZZZZZZ	118334	4.38	421780	5.30	257277	6.62	449536	8.36	458692	13.47	385362	16.49
ZZZZZZ	129584	4.37	489582	5.30	301147	6.62	530867	8.35	441932	13.46	378446	16.48
ZZZZZZ	126982	4.37	467460	5.30	288014	6.62	501338	8.35	425881	13.46	371617	16.47
JC24784-3	119780	4.37	453674	5.29	275579	6.62	490990	8.35	410060	13.46	361738	16.47
ZZZZZZ	137089	4.37	499593	5.30	301709	6.62	522602	8.36	417698	13.48	354781	16.50
JC24816-3 [c]	102401	4.38	368002	5.30	225131	6.62	401018	8.35	393856	13.46	355973	16.48
ZZZZZZ	134290	4.37	505695	5.30	299636	6.62	516896	8.35	441284	13.46	389776	16.48
ZZZZZZ	123394	4.38	433129	5.30	264079	6.62	465810	8.36	387884	13.50	323678	16.51
ZZZZZZ	133958	4.37	495293	5.30	299382	6.62	528855	8.35	438449	13.46	379729	16.48
ZZZZZZ	128461	4.37	473864	5.29	293525	6.62	517836	8.35	429723	13.46	383143	16.47
ZZZZZZ	121943	4.37	456788	5.29	274037	6.62	474350	8.35	411189	13.46	355643	16.47
OP95904-MS	127573	4.37	449389	5.30	284066	6.62	508806	8.35	415907	13.46	373954	16.47
OP95904-MSD	125248	4.37	451781	5.30	282953	6.62	509426	8.35	413374	13.46	369860	16.47

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) Precision and accuracy data unavailable for this batch due to the loss of the QC link sample during extraction.

Semivolatile Surrogate Recovery Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, 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
JC24816-1	3M63435.D	42	44	37
JC24816-2	3P55371.D	52	52	43
JC24816-3	P106468.D	57	66	68
JC24816-3	3M63335.D	72	75	71
OP95904A-BS12	3M63331.D	70	72	84
OP95904A-MB1	3M63330.D	67	69	79
OP95904A-MB1	3P55370.D	63	62	68
OP95939A-BS12	3P55422.D	57	44	60
OP95939A-MB1	3P55421.D	60	46	61
OP95939A-MB1	3M63393.D	57	54	72
OP95939A-MS	3P55591.D	56	60	78
OP95939A-MSD	3P55592.D	53	76	72

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

Initial Calibration Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2975-ICC2975
Lab FileID: 3M62957.D

Response Factor Report MS3M

Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration

Calibration Files
2.5 =3m62956.D 1.0 =3m62957.D 0.5 =3m62958.D 0.2 =3m62950.D
0.1 =3m62951.D 0.05=3m62952.D 0.02=3m62953.D 0.01=3m62954.D
5 =3m62955.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	0.206	0.209	0.206	0.254	0.223				0.222	0.220	8.37
3) 2-Fluorophenol	0.556	0.545	0.556	0.613	0.528	0.530			0.570	0.557	5.22
4) Phenol-d5	0.814	0.829	0.838	0.921	0.784	0.774			0.803	0.823	5.91
5) Phenol	0.871	0.876	0.885	0.961	0.846	0.827	0.766		0.841	0.859	6.46
6) bis(2-Chloroethyl)ether	0.671	0.670	0.670	0.729	0.643	0.630	0.565	0.474	0.671	0.636	11.73
7) Nitrobenzene-d5	0.738	0.775	0.770	0.886	0.741	0.687			0.816	0.773	8.20
8) Nitrobenzene	0.882	0.795	0.783	0.932	0.809	0.723	0.638	0.603	0.879	0.783	14.23
9) Naphthalene	2.372	2.302	2.347	2.569	2.272	2.279	2.298	2.232	2.388	2.340	4.24
10) Hexachlorobutadiene	0.413	0.423	0.435	0.441	0.405	0.409	0.408	0.413	0.423	0.419	3.01
11) 2-Methylnaphthalene	1.226	1.198	1.211	1.325	1.076	1.318			1.215	1.224	6.83
12) 1-Methylnaphthalene	1.334	1.336	1.392	1.355	1.231	1.307	1.353	1.370	1.342	1.336	3.44
13) Hexachlorocyclopentadiene	0.435	0.334	0.285	0.325	0.191				0.483	0.342	30.64
---- Quadratic regression ---- Coefficient = 0.9993											
Response Ratio = -0.01716 + 0.38446 *A + 0.04274 *A^2											
14) I Fluorene-d10 ----------ISTD----------											
15) 2-Fluorobiphenyl	0.805	1.050	1.192	1.260	1.143	1.171	1.128	1.085	0.936	1.086	12.90
16) Acenaphthylene	1.372	1.366	1.386	1.449	1.257	1.252	1.193		1.333	1.326	6.39
17) Acenaphthene	0.864	0.881	0.917	0.976	0.842	0.848	0.816	0.796	0.834	0.864	6.37
18) 4,6-dinitro-2-methylphenol	0.180	0.145	0.112	0.091	0.050	0.056				0.106	48.11
---- Quadratic regression ---- Coefficient = 0.9996											
Response Ratio = -0.00884 + 0.12555 *A + 0.01830 *A^2											
19) Fluorene	0.928	0.959	1.011	1.062	0.950	0.960	0.959		0.913	0.968	4.91
20) 2,4,6-Tribromophenol											

Initial Calibration Summary

Job Number: JC24816 **Sample:** E3M2975-ICC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62957.D
Project: BMSMC, Building 5 Area, PR

```
          0.151 0.170 0.173 0.174                        0.168        0.167    5.61

21) I   Fluoranthene-d10      ----------------ISTD---------------------
22)  Hexachlorobenzene
          0.214 0.226 0.232 0.223 0.205 0.204 0.213 0.202 0.208        0.214    5.07
23)  Pentachlorophenol
          0.104 0.082 0.063 0.082 0.036 0.040            0.118        0.075   40.84
           ---- Quadratic regression ----  Coefficient =  0.9994
             Response Ratio = -0.00759 + 0.08784 *A + 0.00508 *A^2

24)  Phenanthrene
          0.919 0.963 0.942 0.909 0.782 0.766            0.916        0.885    8.85
25)  Anthracene
          0.914 0.881 0.850 0.800 0.662                  0.906        0.835   11.32
26)  Fluoranthene
          1.099 1.113 1.143 1.121 1.016 1.087            1.076        1.094    3.73
27)  Pyrene
          1.115 1.084 1.065 1.072 0.912 0.884            1.095        1.032    9.07
28)  Terphenyl-d14
          0.583 0.643 0.665 0.656 0.574                  0.543        0.610    8.26
29)  Benzo[a]anthracene
          0.940 0.890 0.842 0.936 0.744 0.689            0.972        0.859   12.45
30)  Chrysene
          0.934 0.957 0.922 0.963 0.794 0.852            0.931        0.907    6.84

31) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
32)  Benzo[b]fluoranthene
          1.363 1.333 1.313 1.347 1.114                  1.331        1.300    7.14
33)  Benzo[k]fluoranthene
          1.165 1.305 1.285 1.193 0.942                  1.193        1.180   10.98
34)  Benzo[a]pyrene
          1.171 1.209 1.284 1.210 1.084 1.245            1.159        1.195    5.41
35)  Indeno[1,2,3-cd]pyrene
          1.277 1.256 1.216 1.243 1.000                  1.316        1.218    9.19
36)  Dibenz[a,h]anthracene
          1.073 1.054 1.015 1.018 0.813                  1.101        1.012   10.17
37)  Benzo[g,h,i]perylene
          1.126 1.161 1.161 1.142 0.991                  1.066        1.108    6.06
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

         M3M2975SIM.M        Fri Jul 15 17:12:37 2016   RPT1
```

Initial Calibration Verification

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2976-ICV2975
Lab FileID: 3M62962.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2976\3m62962.D          Vial: 2
Acq On    : 14 Jul 2016   5:18 pm                    Operator: ashleyd
Sample    : icv2975-1.0                              Inst    : MS3M
Misc      : op95160a,e3m2976                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Thu Jul 14 15:32:15 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	143	-0.02	10.28
5	Phenol	0.859	0.717	16.5	117	-0.01	5.92
	----------	AvgRF	CCRF	% Dev	----------		
14 I	Fluorene-d10	1.000	1.000	0.0	109	-0.02	13.26
	----------	True	Calc.	% Drift	----------		
18 t	4,6-dinitro-2-methylpheno	5.000	4.487	10.3	93	-0.02	13.48
	----------	AvgRF	CCRF	% Dev	----------		
21 I	Fluoranthene-d10	1.000	1.000	0.0	118	-0.02	17.46
	----------	True	Calc.	% Drift	----------		
23 t	Pentachlorophenol	5.000	5.892	-17.8	152	-0.02	14.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62957.D M3M2975SIM.M Fri Jul 15 17:12:25 2016 RPT1

Initial Calibration Verification

Job Number: JC24816 **Sample:** E3M2976-ICV2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62963.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E3M2976\3m62963.D Vial: 3
Acq On : 14 Jul 2016 5:51 pm Operator: ashleyd
Sample : icv2975-1.0 Inst : MS3M
Misc : op95160a,e3m2976 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Thu Jul 14 15:32:15 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	132	-0.02	10.28
2	t	1,4-dioxane	0.220	0.182	17.3	115	0.02	2.10
6	t	bis(2-Chloroethyl)ether	0.636	0.662	-4.1	130	-0.01	5.99
8	t	Nitrobenzene	0.783	0.626	20.1	104	0.00	7.45
9	t	Naphthalene	2.340	1.953	16.5	112	0.00	8.80
10	t	Hexachlorobutadiene	0.419	0.420	-0.2	131	-0.02	9.10
11	t	2-Methylnaphthalene	1.224	1.214	0.8	133	-0.02	10.16
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.701	29.9	82	0.00	10.53
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	101	-0.02	13.26
16	t	Acenaphthylene	1.326	1.652	-24.6	122	-0.02	11.92
17	t	Acenaphthene	0.864	1.092	-26.4	125	-0.02	12.27
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.968	1.276	-31.8#	135	-0.02	13.31
21	I	Fluoranthene-d10	1.000	1.000	0.0	106	-0.02	17.46
22	t	Hexachlorobenzene	0.214	0.252	-17.8	118	-0.02	14.42
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.885	1.094	-23.6	120	-0.02	15.21
25	t	Anthracene	0.835	0.967	-15.8	116	0.00	15.32
26	t	Fluoranthene	1.094	1.288	-17.7	122	-0.02	17.49
27	t	Pyrene	1.032	1.278	-23.8	125	-0.02	17.88
29	t	Benzo[a]anthracene	0.859	1.107	-28.9	131	-0.02	19.98
30	t	Chrysene	0.907	1.055	-16.3	116	-0.02	20.03
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	103	-0.02	22.05
32	t	Benzo[b]fluoranthene	1.300	1.476	-13.5	114	-0.02	21.64
33	t	Benzo[k]fluoranthene	1.180	1.400	-18.6	111	-0.02	21.68
34	t	Benzo[a]pyrene	1.195	1.365	-14.2	116	-0.02	22.09
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.427	-17.2	117	-0.02	23.54
36	t	Dibenz[a,h]anthracene	1.012	1.126	-11.3	110	-0.02	23.58
37	t	Benzo[g,h,i]perylene	1.108	1.249	-12.7	111	-0.02	23.88

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

Initial Calibration Verification

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3M2976-ICV2975
Lab FileID: 3M62963.D

```
3m62957.D  M3M2975SIM.M       Fri Jul 15 17:12:27 2016   RPT1
```

Continuing Calibration Summary

Job Number: JC24816 **Sample:** E3M3000-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63327.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M3000\3m63327.D          Vial: 2
Acq On    : 29 Jul 2016   8:52 am                    Operator: shaniceg
Sample    : cc2975-0.5                               Inst    : MS3M
Misc      : op95160a,e3m3000                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jul 29 15:16:40 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-Methylnaphthalene-d10	1.000	1.000	0.0	141	0.00	10.22
2	t	1,4-dioxane	0.220	0.213	3.2	146	-0.05	2.02
3	S	2-Fluorophenol	0.557	0.471	15.4	120	-0.04	4.23
4	S	Phenol-d5	0.823	0.727	11.7	123	-0.03	5.84
5		Phenol	0.859	0.798	7.1	127	-0.01	5.87
6	t	bis(2-Chloroethyl)ether	0.636	0.612	3.8	129	-0.01	5.90
7	S	Nitrobenzene-d5	0.773	0.781	-1.0	143	-0.04	7.33
8	t	Nitrobenzene	0.783	0.835	-6.6	151	-0.02	7.37
9	t	Naphthalene	2.340	1.958	16.3	118	0.00	8.73
10	t	Hexachlorobutadiene	0.419	0.347	17.2	113	-0.02	9.03
11	t	2-Methylnaphthalene	1.224	1.176	3.9	137	0.00	10.10
12	t	1-Methylnaphthalene	1.336	1.260	5.7	128	0.00	10.28
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.378	62.2#	39	0.00	10.45
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	119	0.08	13.22
15	S	2-Fluorobiphenyl	1.086	1.042	4.1	104	0.03	10.90
16	t	Acenaphthylene	1.326	1.578	-19.0	135	0.06	11.87
17	t	Acenaphthene	0.864	1.004	-16.2	130	0.06	12.22
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	1.714	31.4#	82	0.12	13.48
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.968	1.057	-9.2	124	0.08	13.28
20	S	2,4,6-Tribromophenol	0.167	0.134	19.8	92	0.08	13.79
21	I	Fluoranthene-d10	1.000	1.000	0.0	118	-0.02	17.45
22	t	Hexachlorobenzene	0.214	0.201	6.1	102	-0.03	14.39
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	1.824	27.0#	100	-0.02	14.84
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.885	1.089	-23.1#	136	-0.03	15.18
25	t	Anthracene	0.835	1.028	-23.1#	143	-0.02	15.29
26	t	Fluoranthene	1.094	1.213	-10.9	125	-0.02	17.48
27	t	Pyrene	1.032	1.226	-18.8	136	0.00	17.88
28	S	Terphenyl-d14	0.610	0.629	-3.1	112	-0.03	18.27

Continuing Calibration Summary

Job Number: JC24816 **Sample:** E3M3000-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63327.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.859	0.953	-10.9	133	0.00	19.98
30	t	Chrysene	0.907	0.992	-9.4	127	0.00	20.05
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	101	-0.04	22.07
32	t	Benzo[b]fluoranthene	1.300	1.699	-30.7#	131	-0.02	21.66
33	t	Benzo[k]fluoranthene	1.180	0.874	25.9#	69	-0.02	21.70
34	t	Benzo[a]pyrene	1.195	1.181	1.2	93	-0.04	22.11
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.312	-7.7	109	-0.04	23.56
36	t	Dibenz[a,h]anthracene	1.012	1.072	-5.9	107	-0.04	23.60
37	t	Benzo[g,h,i]perylene	1.108	1.153	-4.1	100	-0.02	23.92

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62958.D M3M2975SIM.M Fri Jul 29 15:21:47 2016 RPT1

Continuing Calibration Summary

Job Number: JC24816 **Sample:** E3M3004-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63391.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M3004\3m63391.D          Vial: 2
Acq On    :  2 Aug 2016  11:08 am                    Operator: SHANICEG
Sample    : cc2975-0.5                               Inst    : MS3M
Misc      : op95160a,e3m3004                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Aug 02 08:23:04 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	156	-0.12	10.10
2	t	1,4-dioxane	0.220	0.189	14.1	143	-0.03	1.93
3	S	2-Fluorophenol	0.557	0.393	29.4#	110	-0.12	4.15
4	S	Phenol-d5	0.823	0.661	19.7	123	-0.10	5.77
5		Phenol	0.859	0.696	19.0	123	-0.10	5.78
6	t	bis(2-Chloroethyl)ether		----------NA----------				
7	S	Nitrobenzene-d5	0.773	0.755	2.3	153	-0.15	7.22
8	t	Nitrobenzene	0.783	0.819	-4.6	163	-0.13	7.26
9	t	Naphthalene	2.340	2.006	14.3	133	-0.12	8.62
10	t	Hexachlorobutadiene	0.419	0.346	17.4	124	-0.14	8.92
11	t	2-Methylnaphthalene	1.224	1.160	5.2	150	-0.10	9.99
12	t	1-Methylnaphthalene	1.336	1.261	5.6	142	-0.10	10.18
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.236	76.4#	12	-0.10	10.34
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	138	-0.04	13.11
15	S	2-Fluorobiphenyl	1.086	1.121	-3.2	130	-0.10	10.77
16	t	Acenaphthylene	1.326	1.685	-27.1#	168	-0.07	11.75
17	t	Acenaphthene	0.864	1.059	-22.6#	160	-0.05	12.12
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	1.007	59.7#	47	0.02	13.39
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.968	1.191	-23.0#	163	-0.05	13.15
20	S	2,4,6-Tribromophenol	0.167	0.134	19.8	107	-0.03	13.67
21	I	Fluoranthene-d10	1.000	1.000	0.0	145	-0.08	17.34
22	t	Hexachlorobenzene	0.214	0.194	9.3	121	-0.12	14.27
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	1.743	30.3#	116	-0.07	14.74
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.885	0.982	-11.0	151	-0.12	15.05
25	t	Anthracene	0.835	1.082	-29.6#	184	-0.10	15.16
26	t	Fluoranthene	1.094	1.191	-8.9	151	-0.08	17.37
27	t	Pyrene	1.032	1.211	-17.3	164	-0.06	17.77
28	S	Terphenyl-d14	0.610	0.604	1.0	132	-0.09	18.16

Continuing Calibration Summary

Job Number: JC24816 **Sample:** E3M3004-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63391.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.859	0.840	2.2	144	-0.08	19.88
30	t	Chrysene	0.907	0.984	-8.5	154	-0.08	19.94
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	85	-0.09	21.98
32	t	Benzo[b]fluoranthene	1.300	1.220	6.2	79	-0.09	21.55
33	t	Benzo[k]fluoranthene	1.180	1.408	-19.3	94	-0.09	21.58
34	t	Benzo[a]pyrene	1.195	1.240	-3.8	83	-0.11	22.00
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.227	-0.7	86	-0.09	23.46
36	t	Dibenz[a,h]anthracene	1.012	0.964	4.7	81	-0.11	23.48
37	t	Benzo[g,h,i]perylene	1.108	1.083	2.3	80	-0.09	23.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62958.D M3M2975SIM.M Tue Aug 02 12:48:23 2016 RPT1

Continuing Calibration Summary

Job Number: JC24816 **Sample:** E3M3006-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63423.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M3006\3m63423.D          Vial: 2
Acq On    :  3 Aug 2016  11:11 am                    Operator: shaniceg
Sample    : cc2975-0.5                               Inst    : MS3M
Misc      : op95160a,e3m3006                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2975SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Aug 03 15:18:28 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	154	-0.06	10.06
2	t	1,4-dioxane	0.220	0.189	14.1	142	-0.04	1.90
3	S	2-Fluorophenol	0.557	0.381	31.6#	106	-0.12	4.11
4	S	Phenol-d5	0.823	0.615	25.3#	113	-0.09	5.72
5		Phenol	0.859	0.641	25.4#	112	-0.09	5.73
6	t	bis(2-Chloroethyl)ether		----------NA----------				
7	S	Nitrobenzene-d5	0.773	0.623	19.4	125	-0.11	7.18
8	t	Nitrobenzene	0.783	0.694	11.4	137	-0.09	7.22
9	t	Naphthalene	2.340	1.907	18.5	125	-0.09	8.56
10	t	Hexachlorobutadiene	0.419	0.364	13.1	129	-0.10	8.86
11	t	2-Methylnaphthalene	1.224	1.098	10.3	140	-0.04	9.95
12	t	1-Methylnaphthalene	1.336	1.306	2.2	145	-0.06	10.12
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	0.263	73.7#	18	-0.06	10.28
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	144	-0.08	13.05
15	S	2-Fluorobiphenyl	1.086	1.030	5.2	124	-0.12	10.73
16	t	Acenaphthylene	1.326	1.517	-14.4	157	-0.08	11.71
17	t	Acenaphthene	0.864	0.952	-10.2	149	-0.08	12.07
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	1.659	33.6#	95	0.00	13.35
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.968	1.111	-14.8	158	-0.08	13.11
20	S	2,4,6-Tribromophenol	0.167	0.166	0.6	138	-0.07	13.62
21	I	Fluoranthene-d10	1.000	1.000	0.0	142	-0.19	17.30
22	t	Hexachlorobenzene	0.214	0.225	-5.1	137	-0.20	14.23
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	1.707	31.7#	110	-0.17	14.70
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.885	0.917	-3.6	138	-0.16	15.01
25	t	Anthracene	0.835	0.886	-6.1	148	-0.16	15.12
26	t	Fluoranthene	1.094	1.185	-8.3	147	-0.19	17.33
27	t	Pyrene	1.032	1.218	-18.0	162	-0.17	17.73
28	S	Terphenyl-d14	0.610	0.650	-6.6	139	-0.20	18.11

Continuing Calibration Summary

Job Number: JC24816 **Sample:** E3M3006-CC2975
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M63423.D
Project: BMSMC, Building 5 Area, PR

29	t	Benzo[a]anthracene	0.859	0.981	-14.2	165	-0.19	19.84
30	t	Chrysene	0.907	1.065	-17.4	164	-0.20	19.89
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	117	-0.26	21.94
32	t	Benzo[b]fluoranthene	1.300	1.360	-4.6	121	-0.26	21.51
33	t	Benzo[k]fluoranthene	1.180	1.397	-18.4	127	-0.26	21.55
34	t	Benzo[a]pyrene	1.195	1.262	-5.6	115	-0.28	21.96
35	t	Indeno[1,2,3-cd]pyrene	1.218	1.281	-5.2	123	-0.29	23.41
36	t	Dibenz[a,h]anthracene	1.012	1.049	-3.7	121	-0.29	23.45
37	t	Benzo[g,h,i]perylene	1.108	1.119	-1.0	113	-0.29	23.75

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62958.D M3M2975SIM.M Wed Aug 03 15:57:32 2016 RPT1

Initial Calibration Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2503-ICC2503
Lab FileID: 3P54955.D

```
                        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: JC24816 **Sample:** E3P2503-ICC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P54955.D
Project: BMSMC, Building 5 Area, 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
```

Initial Calibration Verification

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: E3P2503-ICV2503
Lab FileID: 3P54964.D

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: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, 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: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, 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: JC24816 **Sample:** E3P2531-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55369.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2531\3p55369.D          Vial: 2
Acq On    : 29 Jul 2016  10:19 pm                    Operator: juliusj
Sample    : cc2503-0.5                               Inst    : MSGC3P
Misc      : op95837a,e3p2531                         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	104	-0.02	10.84
2	t	1,4-dioxane	0.403	0.345	14.4	104	0.00	2.57
3	S	2-Fluorophenol	0.646	0.569	11.9	104	-0.09	4.84
4	S	Phenol-d5	0.864	0.803	7.1	109	-0.06	6.40
		----------	True	Calc.	% Drift	----------		
5		Phenol	2.500	2.556	-2.2	111	-0.07	6.41
		----------	AvgRF	CCRF	% Dev	----------		
6	t	bis(2-Chloroethyl)ether	0.713	0.616	13.6	111	0.00	6.55
7	S	Nitrobenzene-d5	0.650	0.717	-10.3	118	-0.05	7.97
8	t	Nitrobenzene	0.722	0.714	1.1	114	-0.05	8.01
9	t	Naphthalene	2.629	2.325	11.6	106	-0.04	9.36
10	t	Hexachlorobutadiene	0.445	0.351	21.1#	98	-0.04	9.66
11	t	2-Methylnaphthalene	1.414	1.421	-0.5	115	-0.01	10.72
12	t	1-Methylnaphthalene	1.112	1.175	-5.7	121	0.00	10.91
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	1.000	1.111	-11.1	131	-0.02	11.08
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	96	-0.03	13.81
15	S	2-Fluorobiphenyl	0.984	0.869	11.7	91	-0.05	11.51
16	t	Acenaphthylene	1.411	1.634	-15.8	109	-0.04	12.49
17	t	Acenaphthene	0.893	0.992	-11.1	109	-0.03	12.85
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	2.500	3.660	-46.4#	181	-0.03	14.02
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.843	0.978	-16.0	113	-0.03	13.87
20	S	2,4,6-Tribromophenol	0.125	0.163	-30.4#	118	-0.02	14.36
21	I	Fluoranthene-d10	1.000	1.000	0.0	99	0.02	17.98
22	t	Hexachlorobenzene	0.221	0.237	-7.2	106	-0.03	14.98
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	2.500	3.138	-25.5#	146	-0.03	15.40
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.931	1.041	-11.8	104	-0.02	15.77

Continuing Calibration Summary

Job Number: JC24816 **Sample:** E3P2531-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55369.D
Project: BMSMC, Building 5 Area, PR

25	t	Anthracene	0.795	0.830	-4.4	100	-0.03	15.86
26	t	Fluoranthene	0.804	0.892	-10.9	110	0.02	18.01
27	t	Pyrene	0.899	0.995	-10.7	108	0.02	18.40
28	S	Terphenyl-d14	0.527	0.567	-7.6	111	0.04	18.77
29	t	Benzo[a]anthracene	0.749	0.878	-17.2	116	0.02	20.47
30	t	Chrysene	0.856	0.841	1.8	94	0.00	20.52
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	94	-0.05	22.53
32	t	Benzo[b]fluoranthene	1.325	1.731	-30.6#	122	-0.04	22.12
33	t	Benzo[k]fluoranthene	1.116	1.089	2.4	93	-0.04	22.17
34	t	Benzo[a]pyrene	1.045	1.092	-4.5	110	-0.03	22.57
35	t	Indeno[1,2,3-cd]pyrene	1.153	1.379	-19.6	119	-0.09	24.10
36	t	Dibenz[a,h]anthracene	0.887	1.153	-30.0#	123	-0.09	24.13
37	t	Benzo[g,h,i]perylene	1.134	1.248	-10.1	106	-0.13	24.49

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p54963.D M3P2503SIM.M Mon Aug 01 12:07:50 2016

6.7.10

6

Continuing Calibration Summary

Job Number: JC24816 **Sample:** E3P2534-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55401.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2534\3p55401.D          Vial: 2
Acq On    :  2 Aug 2016   9:07 am                    Operator: ashleyd
Sample    : cc2503-1                                 Inst    : MSGC3P
Misc      : op95837a,e3p2534                         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	122	0.00	10.77
2	t	1,4-dioxane	0.403	0.482	-19.6	140	-0.06	2.49
3	S	2-Fluorophenol	0.646	0.656	-1.5	135	-0.13	4.76
4	S	Phenol-d5	0.864	0.841	2.7	136	-0.08	6.33
		----------	True	Calc.	% Drift	----------		
5		Phenol	5.000	5.707	-14.1	138	-0.08	6.35
		----------	AvgRF	CCRF	% Dev	----------		
6	t	bis(2-Chloroethyl)ether	0.713	0.677	5.0	142	0.00	6.46
7	S	Nitrobenzene-d5	0.650	0.714	-9.8	145	-0.06	7.89
8	t	Nitrobenzene	0.722	0.688	4.7	138	-0.08	7.91
9	t	Naphthalene	2.629	2.443	7.1	130	-0.04	9.29
10	t	Hexachlorobutadiene	0.445	0.402	9.7	135	-0.03	9.59
11	t	2-Methylnaphthalene	1.414	1.156	18.2	119	0.00	10.65
12	t	1-Methylnaphthalene	1.112	1.152	-3.6	139	-0.01	10.82
		----------	True	Calc.	% Drift	----------		
13		Hexachlorocyclopentadiene	2.000	1.665	16.8	102	0.00	11.01
		----------	AvgRF	CCRF	% Dev	----------		
14	I	Fluorene-d10	1.000	1.000	0.0	134	0.00	13.74
15	S	2-Fluorobiphenyl	0.984	0.859	12.7	138	-0.05	11.41
16	t	Acenaphthylene	1.411	1.122	20.5#	114	-0.04	12.39
17	t	Acenaphthene	0.893	0.944	-5.7	150	-0.02	12.76
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	6.294	-25.9#	207	0.00	13.95
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	0.843	0.814	3.4	127	0.00	13.80
20	S	2,4,6-Tribromophenol	0.125	0.134	-7.2	132	0.01	14.29
21	I	Fluoranthene-d10	1.000	1.000	0.0	129	0.00	17.91
22	t	Hexachlorobenzene	0.221	0.205	7.2	131	-0.06	14.91
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	4.481	10.4	118	-0.05	15.32
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	0.931	0.931	0.0	139	0.00	15.68

Continuing Calibration Summary

Job Number: JC24816 **Sample:** E3P2534-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55401.D
Project: BMSMC, Building 5 Area, PR

25	t	Anthracene	0.795	0.757	4.8	125	0.00	15.79
26	t	Fluoranthene	0.804	0.822	-2.2	132	0.00	17.94
27	t	Pyrene	0.899	0.924	-2.8	133	0.00	18.32
28	S	Terphenyl-d14	0.527	0.447	15.2	132	0.03	18.69
29	t	Benzo[a]anthracene	0.749	0.837	-11.7	140	0.00	20.39
30	t	Chrysene	0.856	0.807	5.7	127	0.00	20.45
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	128	0.00	22.48
32	t	Benzo[b]fluoranthene	1.325	1.299	2.0	130	0.00	22.06
33	t	Benzo[k]fluoranthene	1.116	1.044	6.5	118	0.00	22.09
34	t	Benzo[a]pyrene	1.045	0.870	16.7	112	0.00	22.50
35	t	Indeno[1,2,3-cd]pyrene	1.153	1.201	-4.2	127	-0.05	24.02
36	t	Dibenz[a,h]anthracene	0.887	0.935	-5.4	121	-0.05	24.06
37	t	Benzo[g,h,i]perylene	1.134	1.049	7.5	118	-0.10	24.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p54955.D M3P2503SIM.M Tue Aug 02 12:17:46 2016

6.7.11

6

Continuing Calibration Summary

Job Number: JC24816 **Sample:** E3P2546-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55586.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\E3P2546\3p55586.D          Vial: 2
Acq On    :  9 Aug 2016   2:35 pm                    Operator: ashleyd
Sample    : cc2503-0.5                               Inst    : MSGC3P
Misc      : op95964a,e3p2546                         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	115	-0.04	10.84
2	t	1,4-dioxane	0.403	0.428	-6.2	142	-0.02	2.55
3	S	2-Fluorophenol	0.646	0.626	3.1	126	-0.10	4.84
4	S	Phenol-d5	0.864	0.857	0.8	129	-0.07	6.40
		----------	True	Calc.	% Drift		----------	
5		Phenol	2.500	2.791	-11.6	133	-0.07	6.43
		----------	AvgRF	CCRF	% Dev		----------	
6	t	bis(2-Chloroethyl)ether	0.713	0.684	4.1	136	0.00	6.53
7	S	Nitrobenzene-d5	0.650	0.738	-13.5	134	-0.07	7.97
8	t	Nitrobenzene	0.722	0.710	1.7	125	0.00	7.99
9	t	Naphthalene	2.629	2.603	1.0	131	-0.08	9.34
10	t	Hexachlorobutadiene	0.445	0.395	11.2	121	-0.07	9.65
11	t	2-Methylnaphthalene	1.414	1.342	5.1	120	-0.06	10.70
12	t	1-Methylnaphthalene	1.112	1.240	-11.5	141	-0.05	10.89
		----------	True	Calc.	% Drift		----------	
13		Hexachlorocyclopentadiene	1.000	0.896	10.4	112	-0.04	11.08
		----------	AvgRF	CCRF	% Dev		----------	
14	I	Fluorene-d10	1.000	1.000	0.0	125	-0.03	13.81
15	S	2-Fluorobiphenyl	0.984	1.120	-13.8	152	-0.07	11.48
16	t	Acenaphthylene	1.411	1.481	-5.0	128	-0.02	12.46
17	t	Acenaphthene	0.893	1.036	-16.0	148	-0.05	12.83
		----------	True	Calc.	% Drift		----------	
18	t	4,6-dinitro-2-methylpheno	2.500	3.938	-57.5#	259	-0.03	14.02
		----------	AvgRF	CCRF	% Dev		----------	
19	t	Fluorene	0.843	0.949	-12.6	143	-0.05	13.85
20	S	2,4,6-Tribromophenol	0.125	0.161	-28.8#	152	-0.03	14.36
21	I	Fluoranthene-d10	1.000	1.000	0.0	136	-0.04	17.97
22	t	Hexachlorobenzene	0.221	0.240	-8.6	147	-0.08	14.97
		----------	True	Calc.	% Drift		----------	
23	t	Pentachlorophenol	2.500	2.625	-5.0	164	-0.06	15.40
		----------	AvgRF	CCRF	% Dev		----------	
24	t	Phenanthrene	0.931	1.064	-14.3	145	-0.01	15.76

Continuing Calibration Summary

Job Number: JC24816 **Sample:** E3P2546-CC2503
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3P55586.D
Project: BMSMC, Building 5 Area, PR

25	t	Anthracene	0.795	0.907	-14.1	149	-0.03	15.85
26	t	Fluoranthene	0.804	0.907	-12.8	153	-0.04	18.00
27	t	Pyrene	0.899	1.081	-20.2#	161	-0.04	18.38
28	S	Terphenyl-d14	0.527	0.572	-8.5	154	-0.02	18.76
29	t	Benzo[a]anthracene	0.749	1.096	-46.3#	199	-0.06	20.45
30	t	Chrysene	0.856	1.006	-17.5	153	-0.06	20.52
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	160	-0.03	22.53
32	t	Benzo[b]fluoranthene	1.325	1.552	-17.1	187	-0.02	22.12
33	t	Benzo[k]fluoranthene	1.116	1.039	6.9	152	-0.07	22.15
34	t	Benzo[a]pyrene	1.045	0.932	10.8	160	-0.04	22.55
35	t	Indeno[1,2,3-cd]pyrene	1.153	1.844	-59.9#	271#	-0.07	24.10
36	t	Dibenz[a,h]anthracene	0.887	1.404	-58.3#	256#	-0.09	24.11
37	t	Benzo[g,h,i]perylene	1.134	1.617	-42.6#	234#	-0.12	24.47

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p54963.D M3P2503SIM.M Tue Aug 09 16:46:29 2016

Initial Calibration Summary

Job Number: JC24816 **Sample:** EP4681-ICC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105969.D
Project: BMSMC, Building 5 Area, PR

Response Factor Report MSP

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration

Calibration Files
2 =P105975.D 5 =P105974.D 25 =P105972a.D 80 =P105971.D
100 =P105970.D 50 =P105969.D 10 =P105973.D 1 =P105976.D

Compound	2	5	25	80	100	50	10	1	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.677	0.792	0.725	0.708	0.669	0.664	0.797	0.677	0.713	7.55
3) Pyridine	1.698	1.981	1.897	1.727	1.660	1.671	1.995	1.383	1.751	11.56
4) N-Nitrosodim	0.690	0.663	0.683	0.634	0.635	0.688	0.671	0.549	0.652	7.20
5) 2-Fluorophen	1.375	1.377	1.390	1.327	1.302	1.364	1.446	1.181	1.345	5.88
6) Indene	2.638	2.648	2.440	1.959	1.894	2.179	2.564	2.509	2.354	12.85
7) Cumene	3.896	3.946	3.642	2.972	2.857	3.238	3.869	3.823	3.530	12.53
8) Phenol-d5	2.118	2.039	1.969	1.748	1.717	1.891	2.033	1.664	1.897	8.94
9) Phenol	2.585	2.481	2.275	1.810	1.740	2.017	2.411	2.559	2.235	15.07
10) Aniline	3.084	2.963	2.540	2.078	1.993	2.220	2.804	2.891	2.572	16.60
11) bis(2-Chloro	1.650	1.652	1.443	1.296	1.273	1.362	1.562	1.535	1.472	10.26
12) 2-Chlorophen	1.525	1.502	1.353	1.233	1.228	1.308	1.456	1.400	1.376	8.38
13) Decane	1.828	1.729	1.478	1.040		1.259	1.598	1.681	1.516	18.48
14) 1,3-Dichloro	1.623	1.449	1.368	1.277	1.248	1.321	1.455	1.488	1.404	8.86
15) 1,4-Dichloro	1.407	1.394	1.307	1.238	1.227	1.298	1.465	1.370	1.338	6.31
16) Benzyl alcoh	1.027	1.004	0.986	0.862	0.809	0.946	0.994	1.071	0.962	9.05
17) 1,2-Dichloro	1.397	1.423	1.246	1.122	1.090	1.180	1.348	1.290	1.262	9.87
18) Acetophenone	2.167	2.078	1.915	1.493	1.447	1.720	2.076	2.127	1.878	15.39
19) 2-Methylphen	1.339	1.326	1.266	1.045	1.008	1.167	1.365	1.262	1.222	11.10
20) 2,2'-oxybis(	0.441	0.467	0.420	0.386	0.385	0.405	0.438	0.495	0.430	9.02
21) 3&4-Methylph	1.534	1.408	1.391	1.051	1.040	1.211	1.436	1.492	1.320	14.73
22) n-Nitroso-di	1.283	1.229	1.068	0.729		0.909	1.157	1.162	1.077	18.12
23) Hexachloroet	0.517	0.534	0.514	0.505	0.514	0.530	0.524	0.518	0.520	1.81
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.555	0.565	0.497	0.452	0.442	0.490	0.537	0.494	0.504	8.92
26) Nitrobenzene	0.573	0.570	0.501	0.437	0.424	0.481	0.556	0.621	0.520	13.53
27) Quinoline	0.835	0.882	0.774	0.727	0.735	0.761	0.829	0.827	0.796	6.93
28) Isophorone	0.968	0.981	0.872	0.754	0.734	0.823	0.935	0.964	0.879	11.27
29) 2-Nitropheno	0.218	0.224	0.219	0.200	0.196	0.217	0.224	0.187	0.211	6.73
30) 2,4-Dimethyl	0.489	0.489	0.434	0.388	0.380	0.408	0.468	0.416	0.434	10.01
31) Benzoic acid	0.283	0.302	0.329	0.354	0.362	0.356	0.329	0.243	0.320	12.91
32) bis(2-Chloro	0.576	0.587	0.482	0.443	0.430	0.470	0.547	0.547	0.510	11.99
33) 2,4-Dichloro	0.346	0.335	0.325	0.305	0.305	0.322	0.344	0.331	0.327	4.75
34) 2,6-Dichloro	0.334	0.338	0.313	0.289	0.296	0.312	0.338	0.321	0.318	5.86
35) 1,3,5-Trichl	0.411	0.410	0.369	0.338	0.327	0.360	0.398	0.376	0.374	8.47
36) 1,2,4-Trichl	0.361	0.379	0.342	0.320	0.317	0.340	0.364	0.390	0.352	7.51
37) 1,2,3-Trichl	0.352	0.360	0.333	0.313	0.305	0.334	0.359	0.366	0.340	6.62
38) Naphthalene	1.149	1.174	1.030	0.856	0.816	0.957	1.104	1.136	1.028	13.43
39) 4-Chloroanil	0.557	0.564	0.498	0.430	0.416	0.477	0.544	0.491	0.497	11.21
40) 2,3-Dichloro	0.451	0.407	0.392	0.350	0.347	0.380	0.423	0.417	0.396	9.13
41) Caprolactam	0.281	0.286	0.252	0.238	0.239	0.253	0.276		0.261	7.69
42) Hexachlorobu	0.222	0.225	0.218	0.210	0.213	0.225	0.230	0.216	0.220	3.06
43) 4-Chloro-3-m	0.395	0.401	0.375	0.344	0.345	0.373	0.394	0.335	0.370	7.00
44) 2-Methylnaph	0.685	0.674	0.624	0.544	0.529	0.600	0.670	0.634	0.620	9.52
45) 1-Methylnaph	0.803	0.796	0.713	0.625	0.615	0.683	0.753	0.747	0.717	9.97

Initial Calibration Summary

Job Number: JC24816 **Sample:** EP4681-ICC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105969.D
Project: BMSMC, Building 5 Area, PR

```
46) Dimethylnaph 0.712 0.697 0.633 0.570 0.563 0.620 0.680 0.708 0.648   9.29

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.327 0.367 0.406 0.423 0.429 0.445 0.406 0.309 0.389  12.71
49) 2,4,6-Trichl 0.483 0.466 0.415 0.404 0.412 0.439 0.448 0.397 0.433   7.14
50) 2,4,5-Trichl 0.489 0.483 0.434 0.435 0.435 0.453 0.453 0.467 0.456   4.76
51) 2-Fluorobiph 1.526 1.447 1.235 1.131 1.102 1.234 1.379 1.397 1.306  11.72
52) 2-Chloronaph 1.315 1.211 1.039 0.945 0.933 1.040 1.123 1.233 1.105  12.61
53) Biphenyl     1.784 1.691 1.467 1.308 1.276 1.462 1.604 1.584 1.522  11.66
54) 2-Nitroanili 0.599 0.595 0.536 0.498 0.496 0.538 0.558 0.587 0.551   7.45
55) Dimethylphth 1.411 1.342 1.187 1.136 1.124 1.199 1.289 1.417 1.263   9.38
56) Acenaphthyle 2.090 2.124 1.801 1.595 1.562 1.794 1.981 1.922 1.859  11.28
57) 2,6-Dinitrot 0.245 0.268 0.268 0.272 0.280 0.282 0.280 0.260 0.270   4.55
58) 3-Nitroanili 0.395 0.419 0.374 0.376 0.374 0.380 0.385 0.314 0.377   7.85
59) Acenaphthene 1.240 1.192 1.065 0.997 0.997 1.076 1.150 1.132 1.106   7.95
60) 2,4-Dinitrop 0.056 0.097 0.164 0.196 0.199 0.191 0.137       0.149  37.05
         ----- Quadratic regression -----                Coefficient =  0.9996
              Response Ratio = -0.02204 + 0.18761 *A + 0.00335 *A^2

61) 4-Nitropheno 0.203 0.257 0.248 0.260 0.267 0.275 0.241 0.188 0.242  12.91
62) Dibenzofuran 2.076 1.975 1.680 1.526 1.504 1.679 1.893 1.886 1.777  11.85
63) 2,4-Dinitrot 0.381 0.395 0.385 0.387 0.392 0.410 0.394 0.342 0.386   5.10
64) 2,3,4,6-Tetr 0.333 0.358 0.365 0.384 0.390 0.399 0.352 0.322 0.363   7.52
65) Diethylphtha 1.555 1.552 1.358 1.289 1.282 1.426 1.447 1.459 1.421   7.43
66) Fluorene     1.478 1.541 1.349 1.239 1.238 1.353 1.447 1.430 1.384   7.92
67) 4-Chlorophen 0.782 0.728 0.665 0.650 0.663 0.685 0.698 0.713 0.698   6.17
68) 4-Nitroanili 0.390 0.402 0.370 0.353 0.368 0.386 0.395 0.353 0.377   5.00

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro-       0.103 0.131 0.146 0.149 0.146 0.114       0.132  14.71
71) n-Nitrosodip 0.545 0.559 0.500 0.499 0.492 0.512 0.533 0.529 0.521   4.64
72) 1,2-Diphenyl 1.078 1.093 0.934 0.800 0.764 0.887 1.004 1.024 0.948  13.01
73) 2,4,6-Tribro 0.079 0.089 0.085 0.098 0.100 0.092 0.086 0.077 0.088   9.16
74) 4-Bromopheny 0.224 0.238 0.210 0.229 0.224 0.228 0.224 0.205 0.223   4.72
75) Hexachlorobe 0.230 0.251 0.216 0.222 0.223 0.222 0.215 0.238 0.227   5.34
76) Pentachlorop 0.084 0.106 0.134 0.148 0.153 0.149 0.122       0.128  19.86
77) Phenanthrene 1.093 1.074 0.942 0.903 0.891 0.947 0.996 1.056 0.988   7.98
78) Anthracene   1.106 1.083 0.986 0.935 0.904 0.966 1.064 1.050 1.012   7.32
79) Carbazole    1.164 1.133 1.037 0.965 0.964 1.033 1.113 1.080 1.061   7.02
80) Di-n-butylph 1.379 1.391 1.308 1.230 1.206 1.336 1.366 1.226 1.305   5.73
81) Fluoranthene 1.378 1.443 1.318 1.248 1.231 1.318 1.382 1.333 1.331   5.28
82) Octadecane   0.751 0.757 0.669 0.560 0.533 0.622 0.710 0.716 0.665  12.83

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.473 1.500 1.278 1.193 1.173 1.308 1.384 1.422 1.341   9.18
85) Terphenyl-d1 0.808 0.810 0.755 0.746 0.740 0.779 0.785 0.780 0.776   3.40
86) Butylbenzylp 0.604 0.622 0.587 0.591 0.584 0.626 0.609 0.541 0.596   4.52
87) Benzo[a]anth 1.229 1.190 1.117 1.087 1.066 1.139 1.173 1.211 1.151   5.10
88) 3,3'-Dichlor 0.364 0.372 0.380 0.400 0.394 0.403 0.382 0.380 0.384   3.52
89) Chrysene     1.096 1.093 0.980 0.957 0.944 1.011 1.037 1.065 1.023   5.81
90) bis(2-Ethylh 0.723 0.761 0.711 0.686 0.674 0.735 0.735 0.629 0.707   5.97

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.503 1.659 1.664 1.679 1.670 1.790 1.723 1.601 1.661   5.06
93) Benzo[b]fluo 1.378 1.462 1.419 1.455 1.484 1.498 1.439 1.316 1.431   4.19
94) Benzo[k]fluo 1.344 1.350 1.166 1.137 1.141 1.214 1.274 1.203 1.229   6.94
95) Benzo[a]pyre 1.159 1.264 1.222 1.243 1.245 1.267 1.267 1.173 1.230   3.45
96) Indeno[1,2,3 0.856 0.947 0.923 0.965 0.961 0.946 0.937 0.844 0.922   5.06
97) Dibenz(a,h)a 0.854 0.919 0.911 1.004 0.998 0.956 0.940 0.766 0.918   8.53
98) Dibenz[a,h]a 0.957 0.975 0.850 0.866 0.875 0.863 0.915 0.850 0.894   5.51
```

Initial Calibration Summary

Job Number: JC24816 **Sample:** EP4681-ICC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105969.D
Project: BMSMC, Building 5 Area, PR

```
 99) 7,12-Dimethy 0.640 0.656 0.611 0.652 0.678 0.656 0.629 0.649 0.646   3.11
100) Benzo[g,h,i] 0.988 1.058 0.947 0.983 0.960 0.954 1.059 0.914 0.983   5.27
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MP4681.M          Tue Jul 12 17:17:50 2016
```

Initial Calibration Summary

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4682-ICC4682
Lab FileID: P105980.D

Response Factor Report MSP

```
Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration

Calibration Files
2   =P105984.D  5   =P105983.D  25  =P105981.D  80  =P105979.D
100 =P105978.D  50  =P105980.D  10  =P105982.D  1   =P105985.D

 Compound          2     5     25    80    100   50    10    1     Avg %RSD
 ---------------------------------------------------------------------------
158) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
159) Benzaldehyde 1.067 1.070 1.053 0.705       1.029 1.171 1.096 1.027  14.49

160) I   Phenanthrene-d10b     ----------------ISTD---------------------
161) Atrazine     0.176 0.173 0.190 0.186 0.184 0.195 0.194 0.152 0.181   7.93

162) I   Chrysene-d12b         ----------------ISTD---------------------
163) Benzidine    0.491 0.562 0.608 0.353       0.480 0.700 0.481 0.525  21.12

164) I   Naphthalene-d8b       ----------------ISTD---------------------
165) Hydroquinone 0.277 0.311 0.366 0.359 0.361 0.417 0.353       0.349  12.69

166) I   Acenaphthene-d10b     ----------------ISTD---------------------
167) 1,2,4,5-Tetr 0.596 0.603 0.608 0.554 0.549 0.616 0.638 0.622 0.598   5.27

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

           MP4681.M          Tue Jul 12 13:55:56 2016
```

Initial Calibration Verification

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4682-ICV4681
Lab FileID: P105986.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105986.D          Vial: 10
Acq On    : 11 Jul 2016   7:46 pm                   Operator: brittanp
Sample    : icv4681-50                              Inst    : MSP
Misc      : op93881,ep4682                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 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	130	0.00	4.60
9	t	Phenol	2.235	1.620	27.5	105	0.00	4.35
12	t	2-Chlorophenol	1.376	1.112	19.2	111	0.00	4.44
19	t	2-Methylphenol	1.222	1.044	14.6	116	0.00	4.79
21	t	3&4-Methylphenol	1.320	1.070	18.9	115	0.00	4.89
24	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00	5.52
29	t	2-Nitrophenol	0.211	0.195	7.6	107	0.00	5.24
30	t	2,4-Dimethylphenol	0.434	0.375	13.6	109	0.00	5.27
31	t	Benzoic acid	0.320	0.283	11.6	94	0.00	5.37
33	t	2,4-Dichlorophenol	0.327	0.278	15.0	102	0.00	5.42
34		2,6-Dichlorophenol	0.318	0.273	14.2	104	0.00	5.58
43	t	4-Chloro-3-methylphenol	0.370	0.317	14.3	101	-0.01	5.91
47	I	Acenaphthene-d10	1.000	1.000	0.0	131	0.00	6.90
49	t	2,4,6-Trichlorophenol	0.433	0.351	18.9	105	0.00	6.24
50	t	2,4,5-Trichlorophenol	0.456	0.332	27.2	96	-0.01	6.27
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	37.247	25.5	86	0.00	6.96
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.242	0.193	20.2	92	0.00	7.03
64		2,3,4,6-Tetrachlorophenol	0.363	0.281	22.6	92	0.00	7.23
69	I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00	8.73
70	t	4,6-Dinitro-2-methylpheno	0.132	0.110	16.7	92	0.00	7.54
76	t	Pentachlorophenol	0.128	0.110	14.1	90	-0.01	8.45
83	I	Chrysene-d12	1.000	1.000	0.0	114	-0.02	13.94

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:23 2016

Initial Calibration Verification

Job Number: JC24816 **Sample:** EP4682-ICV4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105987.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105987.D          Vial: 11
Acq On    : 11 Jul 2016   8:15 pm                   Operator: brittanp
Sample    : icv4681-50                              Inst    : MSP
Misc      : op93881,ep4682                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 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	108	0.00	4.60
3	t	Pyridine	1.751	1.828	-4.4	119	0.11	2.57
10	t	Aniline	2.572	2.466	4.1	120	0.01	4.37
16	t	Benzyl alcohol	0.962	0.968	-0.6	111	0.00	4.70
24	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00	5.52
39	t	4-Chloroaniline	0.497	0.434	12.7	107	0.00	5.57
44	t	2-Methylnaphthalene	0.620	0.530	14.5	104	0.00	6.02
47	I	Acenaphthene-d10	1.000	1.000	0.0	112	0.00	6.90
54	t	2-Nitroaniline	0.551	0.496	10.0	103	0.00	6.49
58	t	3-Nitroaniline	0.377	0.367	2.7	108	0.00	6.86
		----------	AvgRF	CCRF	% Dev	----------		
62	t	Dibenzofuran	1.777	1.683	5.3	112	0.00	7.10
68	t	4-Nitroaniline	0.377	0.352	6.6	102	-0.02	7.50
69	I	Phenanthrene-d10	1.000	1.000	0.0	119	0.00	8.73
79	t	Carbazole	1.061	0.962	9.3	110	0.00	9.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:24 2016

Initial Calibration Verification

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4682-ICV4682
Lab FileID: P105988A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105988A.D          Vial: 12
Acq On    : 11 Jul 2016   8:44 pm                    Operator: brittanp
Sample    : icv4682-50                               Inst    : MSP
Misc      : op93881,ep4682                           Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 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.
162	I	Chrysene-d12b	1.000	1.000	0.0	82	0.01	13.95
163		Benzidine	0.525	0.421	19.8	73	0.00	11.23
164	I	Naphthalene-d8b	1.000	1.000	0.0	102	0.00	5.52
166	I	Acenaphthene-d10b	1.000	1.000	0.0	100	0.00	6.90
167		1,2,4,5-Tetrachlorobenzen	0.598	0.710	-18.7	115	0.00	6.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:26 2016

Initial Calibration Verification

Job Number: JC24816 **Sample:** EP4682-ICV4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105988.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 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	123	0.00	4.60
4	t	N-Nitrosodimethylamine	0.652	0.554	15.0	99	0.02	2.45
11	t	bis(2-Chloroethyl)ether	1.472	1.525	-3.6	137	0.00	4.41
14	t	1,3-Dichlorobenzene	1.404	1.390	1.0	129	0.00	4.56
15	t	1,4-Dichlorobenzene	1.338	1.302	2.7	123	0.00	4.61
17	t	1,2-Dichlorobenzene	1.262	1.320	-4.6	137	0.00	4.72
20	t	2,2'-oxybis(1-Chloropropa	0.430	0.422	1.9	128	0.00	4.80
22		n-Nitroso-di-n-propylamin	1.077	0.987	8.4	133	0.00	4.89
23	t	Hexachloroethane	0.520	0.542	-4.2	125	0.00	4.97
24	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00	5.52
26	t	Nitrobenzene	0.520	0.493	5.2	114	0.00	5.01
28	t	Isophorone	0.879	0.831	5.5	112	-0.01	5.18
32	t	bis(2-Chloroethoxy)methan	0.510	0.527	-3.3	124	0.00	5.34
36	t	1,2,4-Trichlorobenzene	0.352	0.376	-6.8	122	0.00	5.47
38	t	Naphthalene	1.028	0.967	5.9	112	0.00	5.53
42	t	Hexachlorobutadiene	0.220	0.259	-17.7	128	0.00	5.61
47	I	Acenaphthene-d10	1.000	1.000	0.0	109	0.00	6.90
48	t	Hexachlorocyclopentadiene	0.389	0.396	-1.8	98	0.00	6.14
52	t	2-Chloronaphthalene	1.105	1.176	-6.4	123	0.00	6.40
55	t	Dimethylphthalate	1.263	1.175	7.0	107	0.00	6.64
56	t	Acenaphthylene	1.859	1.732	6.8	105	0.00	6.77
57	t	2,6-Dinitrotoluene	0.270	0.274	-1.5	106	0.00	6.70
59	t	Acenaphthene	1.106	1.093	1.2	111	0.00	6.93
		----------	AvgRF	CCRF	% Dev	----------		
63	t	2,4-Dinitrotoluene	0.386	0.350	9.3	93	0.00	7.09
65	t	Diethylphthalate	1.421	1.323	6.9	101	-0.01	7.35
66	t	Fluorene	1.384	1.251	9.6	101	0.00	7.48
67	t	4-Chlorophenyl-phenylethe	0.698	0.652	6.6	104	0.00	7.48
69	I	Phenanthrene-d10	1.000	1.000	0.0	105	0.00	8.73
71	t	n-Nitrosodiphenylamine	0.521	0.473	9.2	97	0.00	7.62
72	t	1,2-Diphenylhydrazine	0.948	0.811	14.5	96	0.00	7.67
74	t	4-Bromophenyl-phenylether	0.223	0.222	0.4	102	0.00	8.10
75	t	Hexachlorobenzene	0.227	0.220	3.1	104	0.00	8.17
77	t	Phenanthrene	0.988	0.955	3.3	106	0.00	8.77
78	t	Anthracene	1.012	0.923	8.8	100	0.00	8.85
80	t	Di-n-butylphthalate	1.305	1.172	10.2	92	0.00	9.82
81	t	Fluoranthene	1.331	1.199	9.9	95	0.00	10.88

Initial Calibration Verification

Job Number: JC24816 **Sample:** EP4682-ICV4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105988.D
Project: BMSMC, Building 5 Area, PR

83	I	Chrysene-d12	1.000	1.000	0.0	88	0.00	13.95
84	t	Pyrene	1.341	1.363	-1.6	92	0.00	11.32
86	t	Butylbenzylphthalate	0.596	0.643	-7.9	91	0.00	12.93
87	t	Benzo[a]anthracene	1.151	1.180	-2.5	91	0.00	13.93
89	t	Chrysene	1.023	0.975	4.7	85	-0.01	14.01
90	t	bis(2-Ethylhexyl)phthalat	0.707	0.721	-2.0	87	0.00	14.33
91	I	Perylene-d12	1.000	1.000	0.0	84	-0.01	16.98
92	t	Di-n-octylphthalate	1.661	1.772	-6.7	83	-0.01	15.77
93	t	Benzo[b]fluoranthene	1.431	1.382	3.4	78	-0.01	16.23
94	t	Benzo[k]fluoranthene	1.229	1.294	-5.3	90	-0.02	16.29
95	t	Benzo[a]pyrene	1.230	1.326	-7.8	88	0.00	16.86
96	t	Indeno[1,2,3-cd]pyrene	0.922	1.152	-24.9	102	-0.02	18.91
98	t	Dibenz[a,h]anthracene	0.894	1.002	-12.1	98	-0.01	18.98
100	t	Benzo[g,h,i]perylene	0.983	1.088	-10.7	96	-0.02	19.34

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:25 2016

6.7.18

6

Initial Calibration Verification

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4682-ICV4681
Lab FileID: P105990.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105990.D          Vial: 14
Acq On    : 11 Jul 2016   9:42 pm                   Operator: brittanp
Sample    : icv4681-50                              Inst    : MSP
Misc      : op93881,ep4682                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 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	134	0.00	4.60
5	S	2-Fluorophenol	1.345	1.340	0.4	132	0.00	3.62
8	S	Phenol-d5	1.897	1.716	9.5	122	0.00	4.34
24	I	Naphthalene-d8	1.000	1.000	0.0	131	0.00	5.52
25	S	Nitrobenzene-d5	0.504	0.495	1.8	132	0.00	5.00
47	I	Acenaphthene-d10	1.000	1.000	0.0	126	0.00	6.90
51	S	2-Fluorobiphenyl	1.306	1.384	-6.0	142	0.00	6.31
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	120	0.00	8.73
73	S	2,4,6-Tribromophenol	0.088	0.098	-11.4	127	0.00	7.77
83	I	Chrysene-d12	1.000	1.000	0.0	107	-0.02	13.94
85	S	Terphenyl-d14	0.776	0.870	-12.1	120	0.00	11.75

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:27 2016

Initial Calibration Verification

Job Number: JC24816 **Sample:** EP4682-ICV4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P105991.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105991.D          Vial: 15
Acq On    : 11 Jul 2016  10:11 pm                   Operator: brittanp
Sample    : icv4681-50                              Inst    : MSP
Misc      : op93881,ep4682                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Wed Jul 13 09:03:58 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	119	-0.02	13.94
88 t	3,3'-Dichlorobenzidine	0.384	0.362	5.7	106	-0.01	13.98

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Wed Jul 13 09:08:14 2016

Initial Calibration Verification

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4682-ICV4682
Lab FileID: P105992.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4682\P105992.D          Vial: 16
Acq On    : 11 Jul 2016  10:40 pm                   Operator: brittanp
Sample    : icv4682-50                              Inst    : MSP
Misc      : op93881,ep4682                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 13:29:31 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.
164 I	Naphthalene-d8b	1.000	1.000	0.0	109	0.00	5.52
165	Hydroquinone	0.349	0.366	-4.9	95	0.00	5.81

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 13:53:29 2016

Initial Calibration Verification

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4683-ICV4681
Lab FileID: P105998.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4683\P105998.D          Vial: 2
Acq On    : 12 Jul 2016   4:43 pm                   Operator: ashleyd
Sample    : icv4681-50                              Inst    : MSP
Misc      : op93881,ep4683                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 17:11:18 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	113	-0.02	4.58
2	t	1,4-Dioxane	0.713	0.540	24.3	92	-0.02	2.12
6	t	Indene	2.354	2.132	9.4	110	-0.02	4.76
7	t	Cumene	3.530	2.811	20.4	98	-0.02	3.98
13	t	Decane	1.516	1.045	31.1#	94	-0.02	4.46
18	t	Acetophenone	1.878	1.710	8.9	112	-0.02	4.87
24	I	Naphthalene-d8	1.000	1.000	0.0	131	-0.02	5.50
27	t	Quinoline	0.796	0.584	26.6	100	-0.03	5.75
40	t	2,3-Dichloroaniline	0.396	0.283	28.5	97	-0.02	6.22
41	t	Caprolactam	0.261	0.183	29.9	94	-0.04	5.79
45	t	1-Methylnaphthalene	0.717	0.547	23.7	104	-0.02	6.08
46	t	Dimethylnaphthalene	0.648	0.498	23.1	105	-0.02	6.50
47	I	Acenaphthene-d10	1.000	1.000	0.0	111	-0.03	6.88
53	t	Biphenyl	1.522	1.388	8.8	105	-0.03	6.37
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	105	-0.04	8.70
82	t	Octadecane	0.665	0.579	12.9	97	-0.03	8.61
83	I	Chrysene-d12	1.000	1.000	0.0	110	-0.05	13.90
84	t							
91	I	Perylene-d12	1.000	1.000	0.0	108	-0.05	16.93
99	t	7,12-Dimethylbenz(a)anthr	0.646	0.434	32.8#	72	-0.06	16.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 17:22:45 2016

Initial Calibration Verification

Job Number: JC24816
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: EP4683-ICV4682
Lab FileID: P105998A.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4683\P105998A.D          Vial: 2
Acq On    : 12 Jul 2016   4:43 pm                    Operator: ashleyd
Sample    : icv4682-50                               Inst    : MSP
Misc      : op93881,ep4683                           Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Tue Jul 12 17:11:18 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.
158	I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	108	-0.02	4.58
159		Benzaldehyde	1.027	1.067	-3.9	112	-0.02	4.26
160	I	Phenanthrene-d10b	1.000	1.000	0.0	94	-0.03	8.70
161		Atrazine	0.181	0.222	-22.7	107	-0.02	8.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105980A.D MP4681.M Tue Jul 12 17:22:46 2016

Continuing Calibration Summary

Job Number: JC24816 **Sample:** EP4706-CC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P106447.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4706\P106447.D          Vial: 2
Acq On    : 29 Jul 2016   9:10 am                   Operator: ashleyd
Sample    : cc4681-25                               Inst    : MSP
Misc      : op95516,ep4706                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jul 29 12:21:50 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	61	-0.03	4.38
2	t	1,4-Dioxane	0.713	0.578	18.9	49	-0.04	1.84
3	t	Pyridine	1.751	1.660	5.2	54	-0.08	2.19
4	t	N-Nitrosodimethylamine	0.652	0.747	-14.6	67	-0.04	2.16
5	S	2-Fluorophenol	1.345	1.467	-9.1	65	-0.05	3.41
6	t	Indene	2.354	2.649	-12.5	66	-0.02	4.57
7	t	Cumene	3.530	3.749	-6.2	63	-0.06	3.78
8	S	Phenol-d5	1.897	1.819	4.1	56	-0.01	4.15
9	t	Phenol	2.235	2.222	0.6	60	-0.01	4.16
10	t	Aniline	2.572	2.467	4.1	59	-0.02	4.14
11	t	bis(2-Chloroethyl)ether	1.472	1.351	8.2	57	-0.03	4.19
12	t	2-Chlorophenol	1.376	1.544	-12.2	70	-0.03	4.23
13	t	Decane	1.516	1.326	12.5	55	-0.01	4.26
14	t	1,3-Dichlorobenzene	1.404	1.616	-15.1	72	-0.03	4.34
15	t	1,4-Dichlorobenzene	1.338	1.541	-15.2	72	-0.03	4.39
16	t	Benzyl alcohol	0.962	1.047	-8.8	65	-0.01	4.50
17	t	1,2-Dichlorobenzene	1.262	1.450	-14.9	71	-0.02	4.50
18	t	Acetophenone	1.878	2.157	-14.9	69	0.00	4.68
19	t	2-Methylphenol	1.222	1.387	-13.5	67	0.00	4.59
20	t	2,2'-oxybis(1-Chloropropa	0.430	0.461	-7.2	67	-0.02	4.58
21	t	3&4-Methylphenol	1.320	1.571	-19.0	69	0.01	4.70
22		n-Nitroso-di-n-propylamin	1.077	1.113	-3.3	64	0.00	4.68
23	t	Hexachloroethane	0.520	0.581	-11.7	69	-0.02	4.74
24	I	Naphthalene-d8	1.000	1.000	0.0	69	-0.03	5.30
25	S	Nitrobenzene-d5	0.504	0.441	12.5	62	-0.04	4.79
26	t	Nitrobenzene	0.520	0.450	13.5	62	-0.04	4.80
27	t	Quinoline	0.796	0.830	-4.3	74	-0.02	5.55
28	t	Isophorone	0.879	0.772	12.2	61	-0.04	4.97
29	t	2-Nitrophenol	0.211	0.234	-10.9	74	-0.03	5.03
30	t	2,4-Dimethylphenol	0.434	0.401	7.6	64	-0.01	5.08
31	t	Benzoic acid	0.320	0.301	5.9	63	-0.02	5.17
32	t	bis(2-Chloroethoxy)methan	0.510	0.435	14.7	63	-0.03	5.13
33	t	2,4-Dichlorophenol	0.327	0.347	-6.1	74	-0.02	5.21
34		2,6-Dichlorophenol	0.318	0.335	-5.3	74	-0.02	5.37
35		1,3,5-Trichlorobenzene	0.374	0.395	-5.6	74	-0.03	5.04
36	t	1,2,4-Trichlorobenzene	0.352	0.370	-5.1	75	-0.03	5.26
37		1,2,3-Trichlorobenzene	0.340	0.368	-8.2	77	-0.02	5.42
38	t	Naphthalene	1.028	1.066	-3.7	72	-0.03	5.31
39	t	4-Chloroaniline	0.497	0.509	-2.4	71	-0.02	5.36
40	t	2,3-Dichloroaniline	0.396	0.422	-6.6	75	-0.01	6.01
41	t	Caprolactam	0.261	0.173	33.7#	48#	0.00	5.63

Continuing Calibration Summary

Job Number: JC24816 **Sample:** EP4706-CC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P106447.D
Project: BMSMC, Building 5 Area, PR

42	t	Hexachlorobutadiene	0.220	0.221	-0.5	70	-0.02	5.40
43	t	4-Chloro-3-methylphenol	0.370	0.399	-7.8	74	0.00	5.73
44	t	2-Methylnaphthalene	0.620	0.693	-11.8	77	-0.03	5.81
45	t	1-Methylnaphthalene	0.717	0.785	-9.5	76	-0.03	5.87
46	t	Dimethylnaphthalene	0.648	0.714	-10.2	78	-0.02	6.27
47	I	Acenaphthene-d10	1.000	1.000	0.0	73	-0.03	6.63
48	t	Hexachlorocyclopentadiene	0.389	0.240	38.3#	43#	-0.01	5.91
49	t	2,4,6-Trichlorophenol	0.433	0.404	6.7	71	-0.02	6.02
50	t	2,4,5-Trichlorophenol	0.456	0.446	2.2	75	-0.02	6.06
51	S	2-Fluorobiphenyl	1.306	1.287	1.5	76	-0.01	6.07
52	t	2-Chloronaphthalene	1.105	1.121	-1.4	79	-0.02	6.16
53	t	Biphenyl	1.522	1.565	-2.8	78	-0.02	6.15
54	t	2-Nitroaniline	0.551	0.462	16.2	63	-0.01	6.25
55	t	Dimethylphthalate	1.263	1.412	-11.8	87	-0.02	6.39
56	t	Acenaphthylene	1.859	1.939	-4.3	78	-0.03	6.51
57	t	2,6-Dinitrotoluene	0.270	0.328	-21.5#	89	-0.02	6.45
58	t	3-Nitroaniline	0.377	0.405	-7.4	79	-0.02	6.60
59	t	Acenaphthene	1.106	1.176	-6.3	80	-0.04	6.65
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	51.641	-3.3	80	-0.03	6.71
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.242	0.201	16.9	59	0.02	6.80
62	t	Dibenzofuran	1.777	1.857	-4.5	80	-0.04	6.82
63	t	2,4-Dinitrotoluene	0.386	0.429	-11.1	81	-0.03	6.82
64		2,3,4,6-Tetrachlorophenol	0.363	0.343	5.5	68	-0.03	6.95
65	t	Diethylphthalate	1.421	1.423	-0.1	76	-0.04	7.06
66	t	Fluorene	1.384	1.380	0.3	75	-0.04	7.17
67	t	4-Chlorophenyl-phenylethe	0.698	0.732	-4.9	80	-0.04	7.17
68	t	4-Nitroaniline	0.377	0.381	-1.1	75	-0.04	7.22
69	I	Phenanthrene-d10	1.000	1.000	0.0	76	-0.04	8.36
70	t	4,6-Dinitro-2-methylpheno	0.132	0.155	-17.4	90	0.00	7.25
71	t	n-Nitrosodiphenylamine	0.521	0.541	-3.8	82	0.00	7.31
72	t	1,2-Diphenylhydrazine	0.948	0.771	18.7	63	-0.03	7.35
73	S	2,4,6-Tribromophenol	0.088	0.097	-10.2	87	-0.03	7.45
74	t	4-Bromophenyl-phenylether	0.223	0.220	1.3	80	-0.04	7.76
75	t	Hexachlorobenzene	0.227	0.220	3.1	78	-0.04	7.82
76	t	Pentachlorophenol	0.128	0.105	18.0	60	-0.03	8.11
77	t	Phenanthrene	0.988	1.060	-7.3	86	-0.04	8.40
78	t	Anthracene	1.012	1.106	-9.3	85	-0.04	8.48
79	t	Carbazole	1.061	1.131	-6.6	83	-0.03	8.75
80	t	Di-n-butylphthalate	1.305	1.340	-2.7	78	-0.03	9.42
81	t	Fluoranthene	1.331	1.315	1.2	76	-0.03	10.44
82	t	Octadecane	0.665	0.454	31.7#	52	-0.03	8.27
83	I	Chrysene-d12	1.000	1.000	0.0	73	-0.04	13.48
84	t	Pyrene	1.341	1.377	-2.7	79	-0.01	10.88
85	S	Terphenyl-d14	0.776	0.847	-9.1	82	-0.06	11.30
86	t	Butylbenzylphthalate	0.596	0.625	-4.9	78	-0.05	12.47
87	t	Benzo[a]anthracene	1.151	1.264	-9.8	82	-0.04	13.46
88	t	3,3'-Dichlorobenzidine	0.384	0.455	-18.5	87	-0.03	13.52
89	t	Chrysene	1.023	1.174	-14.8	87	-0.04	13.54
90	t	bis(2-Ethylhexyl)phthalat	0.707	0.833	-17.8	85	0.01	13.87
91	I	Perylene-d12	1.000	1.000	0.0	86	-0.03	16.50
92	t	Di-n-octylphthalate	1.661	1.568	5.6	81	-0.05	15.31
93	t	Benzo[b]fluoranthene	1.431	1.343	6.1	81	-0.02	15.75

Continuing Calibration Summary

Job Number: JC24816 **Sample:** EP4706-CC4681
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P106447.D
Project: BMSMC, Building 5 Area, PR

94	t	Benzo[k]fluoranthene	1.229	1.228	0.1	91	-0.01	15.81
95	t	Benzo[a]pyrene	1.230	1.166	5.2	82	0.00	16.38
96	t	Indeno[1,2,3-cd]pyrene	0.922	1.030	-11.7	96	0.08	18.43
97	t	Dibenz(a,h)acridine	0.918	0.958	-4.4	91	0.00	18.08
98	t	Dibenz[a,h]anthracene	0.894	1.014	-13.4	103	-0.02	18.50
99	t	7,12-Dimethylbenz(a)anthr	0.646	0.599	7.3	84	-0.06	15.77
100	t	Benzo[g,h,i]perylene	0.983	1.091	-11.0	99	-0.04	18.86

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105981A.D MP4681.M Fri Jul 29 12:43:10 2016

Continuing Calibration Summary

Job Number: JC24816 **Sample:** EP4706-CC4682
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** P106448.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\EP4706\P106448.D          Vial: 3
Acq On    : 29 Jul 2016   9:49 am                   Operator: brittanp
Sample    : cc4682-25                               Inst    : MSP
Misc      : op95516,ep4706                          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Fri Jul 29 12:21:50 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.
101	I	1,4-Dichlorobenzene-d4b	1.000	1.000	0.0	53	-0.03	4.38
102		Benzaldehyde	1.027	1.126	-9.6	56	0.02	4.05
103	I	Phenanthrene-d10b	1.000	1.000	0.0	65	-0.05	8.36
104		Atrazine	0.181	0.211	-16.6	72	-0.02	8.01
105	I	Chrysene-d12b	1.000	1.000	0.0	69	-0.05	13.47
106		Benzidine	0.525	0.588	-12.0	67	-0.09	10.80
107	I	Naphthalene-d8b	1.000	1.000	0.0	61	-0.03	5.30
108		Hydroquinone	0.349	0.413	-18.3	69	0.02	5.62
109	I	Acenaphthene-d10b	1.000	1.000	0.0	65	-0.04	6.62
110		1,2,4,5-Tetrachlorobenzen	0.598	0.562	6.0	60	-0.02	5.92

(#) = Out of Range SPCC's out = 0 CCC's out = 0
P105981A.D MP4681.M Fri Jul 29 12:43:11 2016

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3006\
Data File : 3m63435.D
Acq On : 3 Aug 2016 4:16 pm
Operator : shaniceg
Sample : jc24816-1
Misc : op95939a,e3m3006,900
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 17:04:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Aug 03 15:18:28 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.056	150	405107	4.00 ppm	-0.06
14) Fluorene-d10	13.051	176	590641	4.00 ppm	-0.08
21) Fluoranthene-d10	17.304	212	911850	4.00 ppm	-0.18
31) Benzo(a)pyrene-d12	21.934	264	553765	4.00 ppm	-0.27
System Monitoring Compounds					
3) 2-Fluorophenol	4.121	112	601722	10.67 ppm	-0.11
Spiked Amount 50.000			Recovery = 21.34%		
4) Phenol-d5	5.734	99	678876	8.14 ppm	-0.08
Spiked Amount 50.000			Recovery = 16.28%		
7) Nitrobenzene-d5	7.184	82	1659180	21.19 ppm	-0.11
Spiked Amount 50.000			Recovery = 42.38%		
15) 2-Fluorobiphenyl	10.733	172	3504602	21.86 ppm	-0.12
Spiked Amount 50.000			Recovery = 43.72%		
20) 2,4,6-Tribromophenol	13.616	330	542205	21.94 ppm	-0.07
Spiked Amount 50.000			Recovery = 43.88%		
28) Terphenyl-d14	18.123	244	2596359	18.66 ppm	-0.19
Spiked Amount 50.000			Recovery = 37.32%		

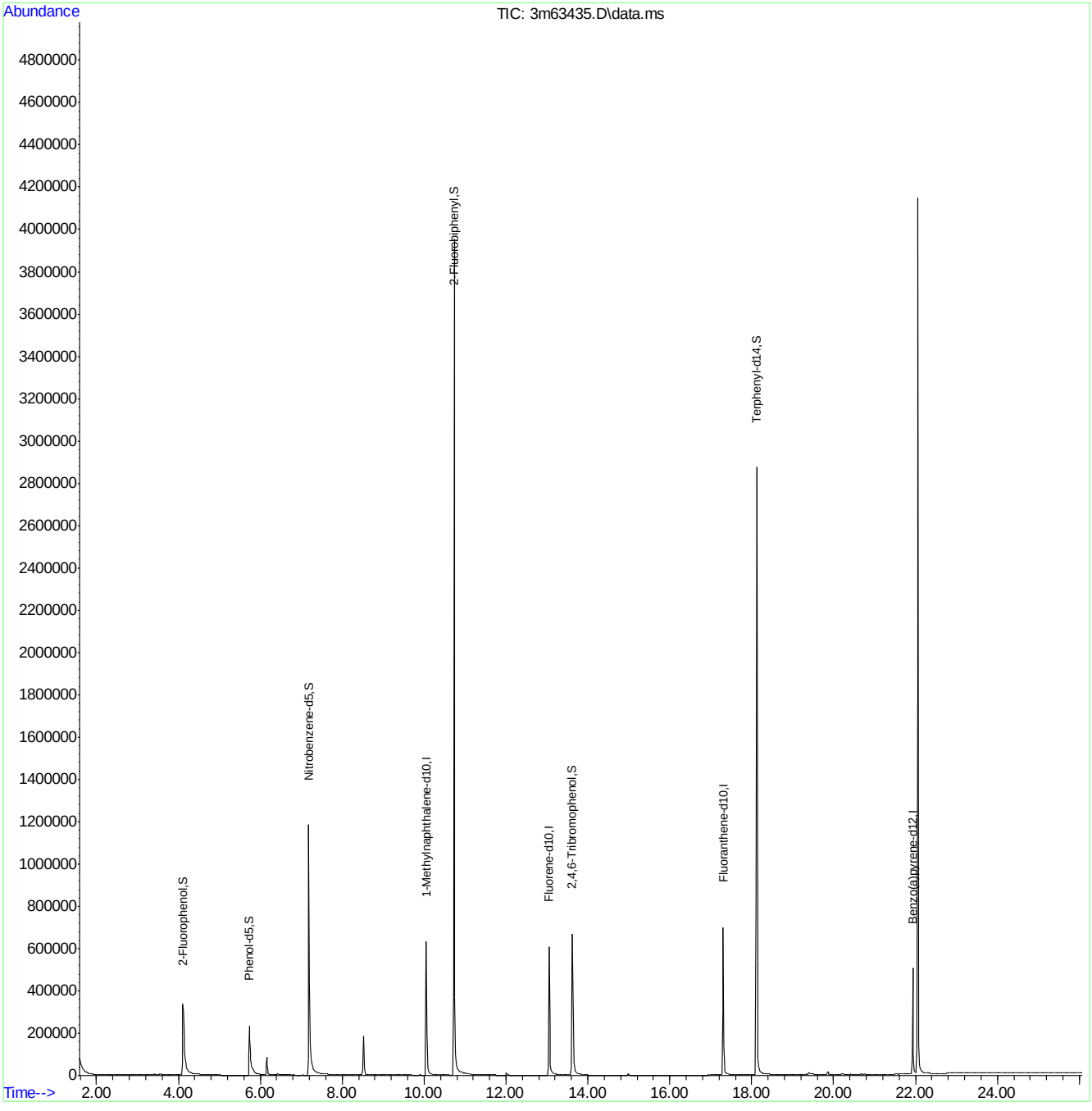
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3006\
Data File : 3m63435.D
Acq On : 3 Aug 2016 4:16 pm
Operator : shaniceg
Sample : jc24816-1
Misc : op95939a,e3m3006,900
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 03 17:04:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Aug 03 15:18:28 2016
Response via : Initial Calibration



M3M2975SIM.M Wed Aug 03 17:04:22 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2531\
Data File : 3p55371.D
Acq On : 30 Jul 2016 12:26 am
Operator : juliusj
Sample : jc24816-2
Misc : op95904a,e3p2531,900
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 12:07:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 26 16:24:11 2016
Response via : Initial Calibration

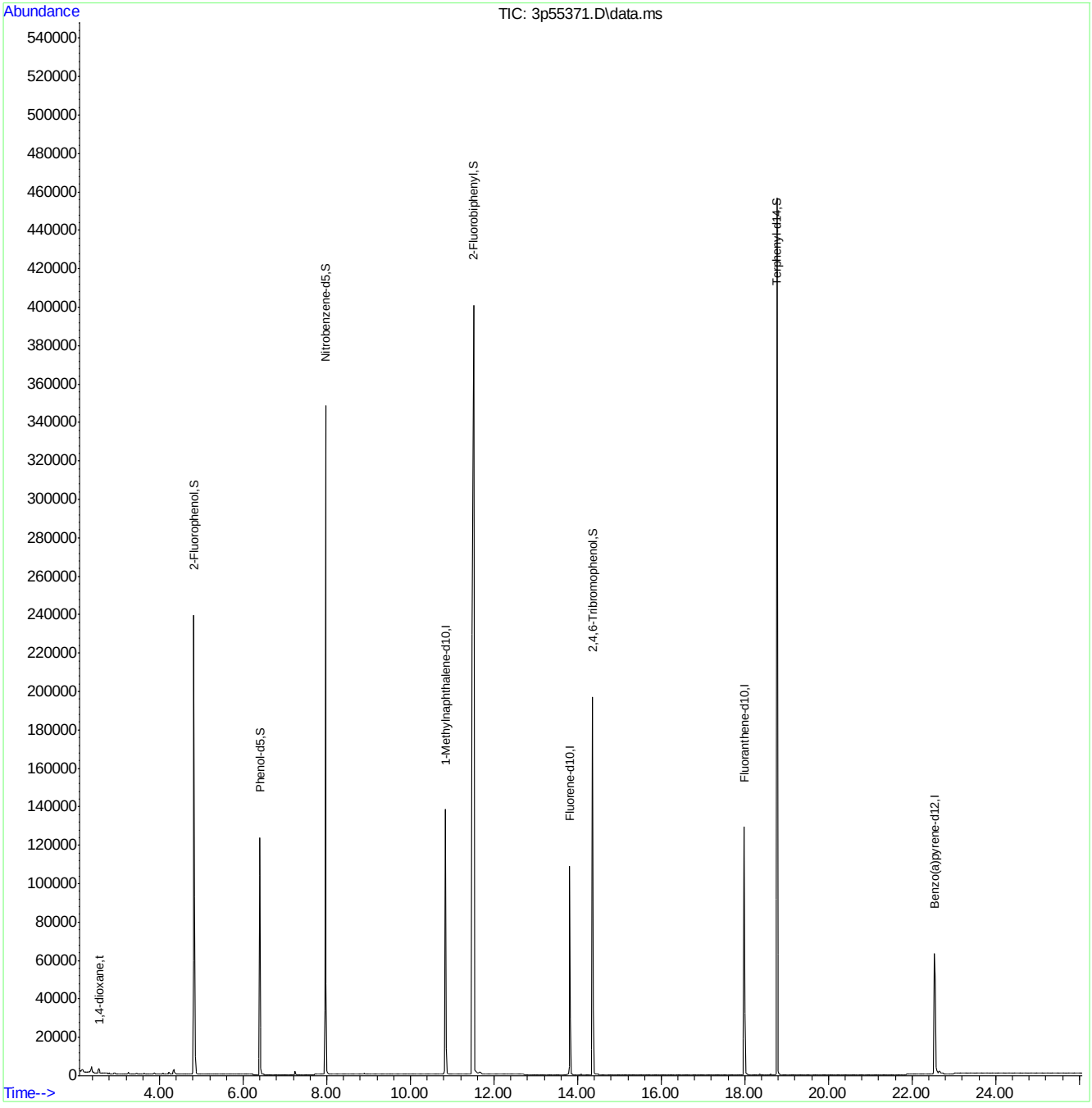
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.839	150	75046	4.00	ppm	-0.02
14) Fluorene-d10	13.815	176	86477	4.00	ppm	-0.03
21) Fluoranthene-d10	17.983	212	133061	4.00	ppm	-0.04
31) Benzo(a)pyrene-d12	22.535	264	95342	4.00	ppm	-0.05
System Monitoring Compounds						
3) 2-Fluorophenol	4.822	112	176324	14.55	ppm	-0.11
Spiked Amount 50.000			Recovery = 29.10%			
4) Phenol-d5	6.401	99	182856	11.27	ppm	-0.06
Spiked Amount 50.000			Recovery = 22.54%			
7) Nitrobenzene-d5	7.970	82	316761	25.96	ppm	-0.05
Spiked Amount 50.000			Recovery = 51.92%			
15) 2-Fluorobiphenyl	11.508	172	557759	26.21	ppm	-0.05
Spiked Amount 50.000			Recovery = 52.42%			
20) 2,4,6-Tribromophenol	14.361	330	109689	40.52	ppm	-0.02
Spiked Amount 50.000			Recovery = 81.04%			
28) Terphenyl-d14	18.771	244	373442	21.32	ppm	-0.02
Spiked Amount 50.000			Recovery = 42.64%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.551	88	2458	0.33	ppm	81

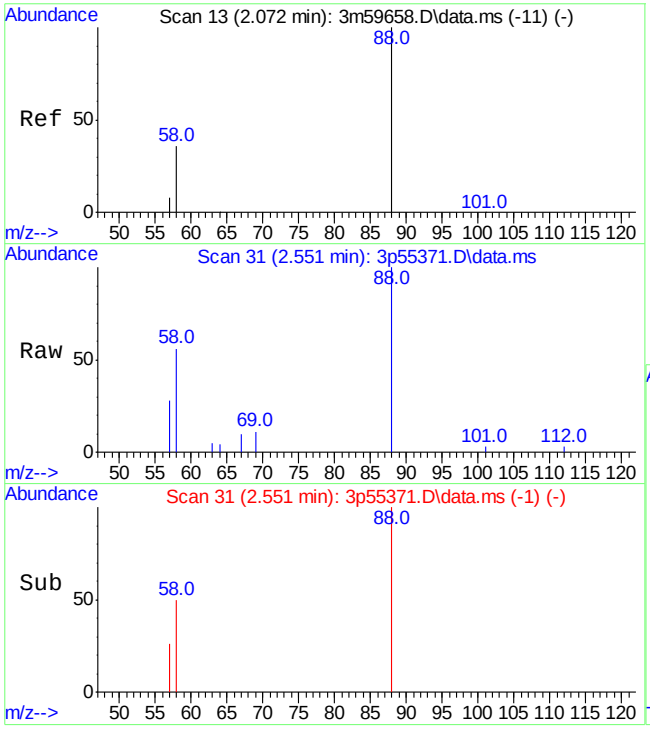
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2531\
Data File : 3p55371.D
Acq On : 30 Jul 2016 12:26 am
Operator : juliusj
Sample : jc24816-2
Misc : op95904a,e3p2531,900
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 12:07:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 26 16:24:11 2016
Response via : Initial Calibration

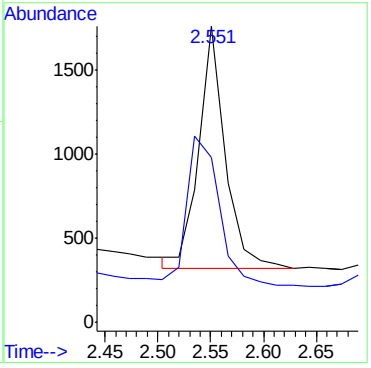




#2
1,4-dioxane
Concen: 0.33 ppm
RT: 2.551 min Scan# 31
Delta R.T. -0.015 min
Lab File: 3p55371.D
Acq: 30 Jul 2016 12:26 am

Tgt Ion: 88 Resp: 2458

Ion	Ratio	Lower	Upper
88	100		
58	52.8	20.8	60.8



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63335.D
Acq On : 29 Jul 2016 1:33 pm
Operator : shaniceg
Sample : JC24816-3
Misc : op95904a,e3m3000,920,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 15:18:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jul 29 15:16:40 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.220	150	302672	4.00 ppm	0.00
14) Fluorene-d10	13.220	176	353524	4.00 ppm	0.08
21) Fluoranthene-d10	17.449	212	588129	4.00 ppm	-0.02
31) Benzo(a)pyrene-d12	22.072	264	448467	4.00 ppm	-0.04
System Monitoring Compounds					
3) 2-Fluorophenol	4.245	112	807373	19.17 ppm	-0.03
Spiked Amount 50.000				Recovery = 38.34%	
4) Phenol-d5	5.843	99	874671	14.04 ppm	-0.03
Spiked Amount 50.000				Recovery = 28.08%	
7) Nitrobenzene-d5	7.335	82	2103928	35.97 ppm	-0.04
Spiked Amount 50.000				Recovery = 71.94%	
15) 2-Fluorobiphenyl	10.897	172	3590148	37.42 ppm	0.03
Spiked Amount 50.000				Recovery = 74.84%	
20) 2,4,6-Tribromophenol	13.767	330	506141	34.22 ppm	0.06
Spiked Amount 50.000				Recovery = 68.44%	
28) Terphenyl-d14	18.268	244	3202643	35.68 ppm	-0.03
Spiked Amount 50.000				Recovery = 71.36%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.019	88	90142	5.42 ppm	# 76

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

7.1.3

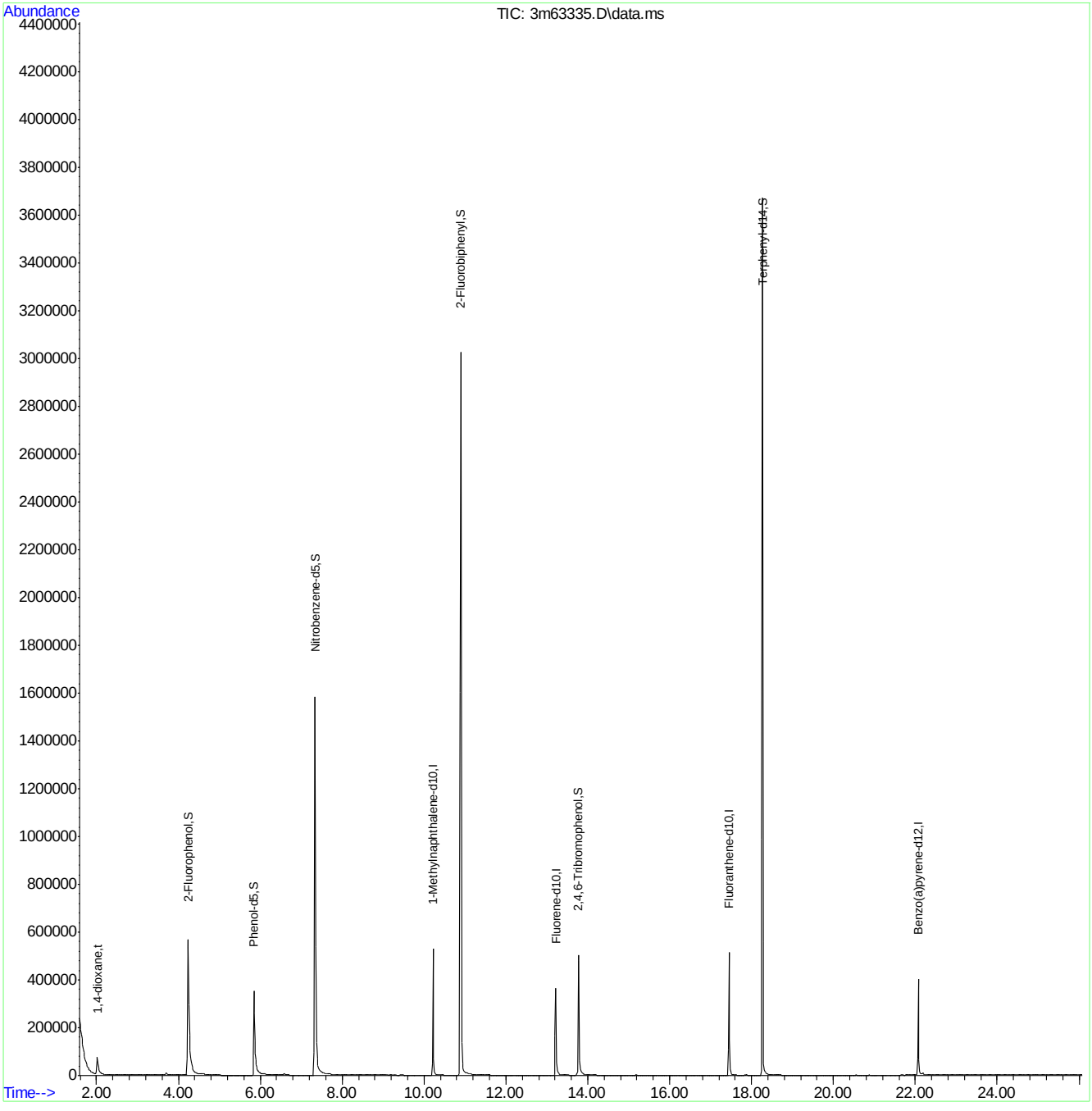
7

SGS ACCUTEST JC24816

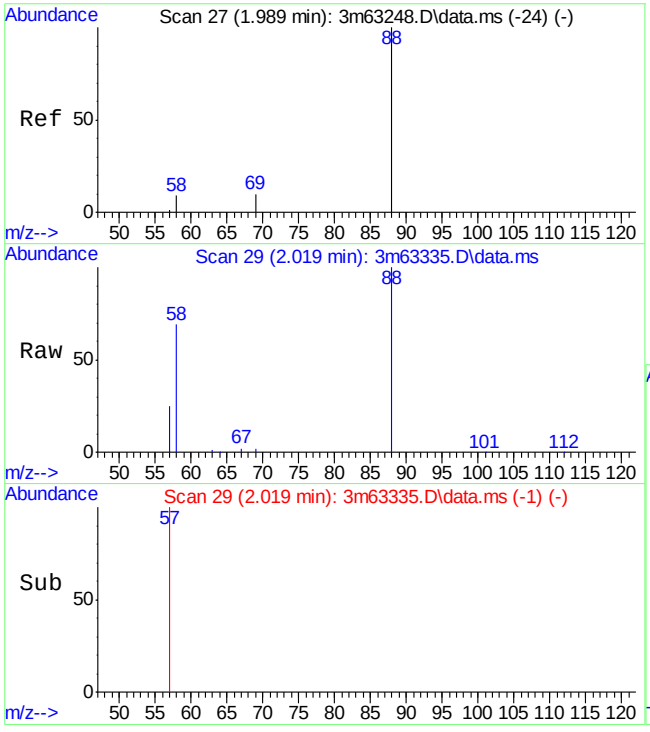
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63335.D
Acq On : 29 Jul 2016 1:33 pm
Operator : shaniceg
Sample : JC24816-3
Misc : op95904a,e3m3000,920,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 29 15:18:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jul 29 15:16:40 2016
Response via : Initial Calibration



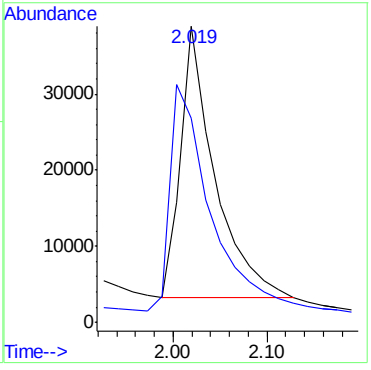
SGS ACCUTEST JC24816



#2
1,4-dioxane
Concen: 5.42 ppm
RT: 2.019 min Scan# 29
Delta R.T. -0.045 min
Lab File: 3m63335.D
Acq: 29 Jul 2016 1:33 pm

Tgt Ion: 88 Resp: 90142

Ion	Ratio	Lower	Upper
88	100		
58	66.8	69.2	109.2#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4706\P106468.D Vial: 23
Acq On : 29 Jul 2016 3:54 pm Operator: brittanp
Sample : jc24816-3 Inst : MSP
Misc : op95904,ep4706,920 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 16:16:10 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 29 12:21:50 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

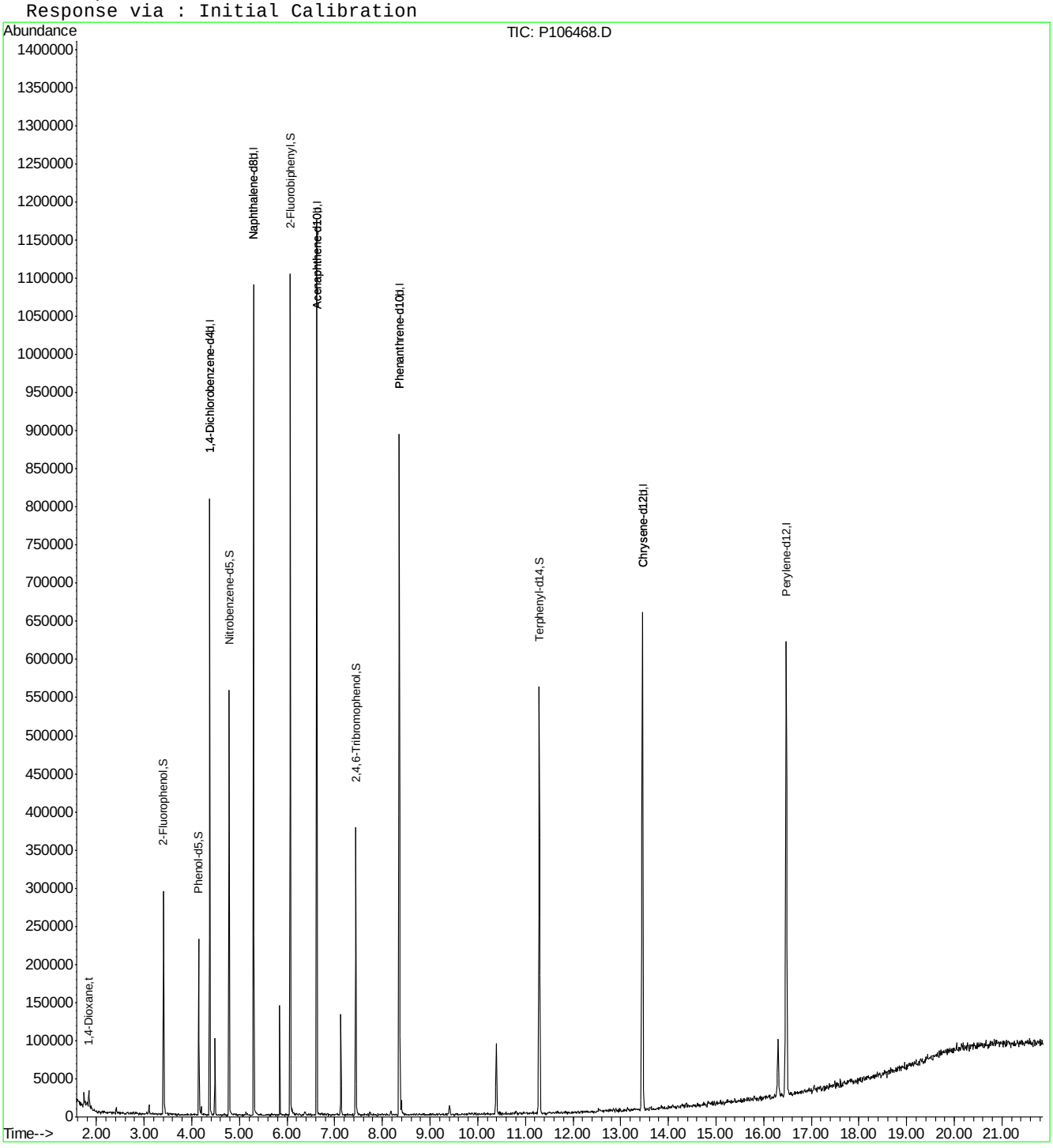
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.38	152	102401	40.00	ppm	-0.03
24) Naphthalene-d8	5.30	136	368002	40.00	ppm	-0.03
47) Acenaphthene-d10	6.62	164	225131	40.00	ppm	-0.04
69) Phenanthrene-d10	8.35	188	401018	40.00	ppm	-0.05
83) Chrysene-d12	13.46	240	393856	40.00	ppm	-0.06
91) Perylene-d12	16.48	264	355973	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4b	4.38	152	102401	40.00	ppm	-0.03
103) Phenanthrene-d10b	8.35	188	401018	40.00	ppm	-0.05
105) Chrysene-d12b	13.46	240	393856	40.00	ppm	-0.06
107) Naphthalene-d8b	5.30	136	368002	40.00	ppm	-0.03
109) Acenaphthene-d10b	6.62	164	225131	40.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.41	112	75270	21.86	ppm	-0.06
Spiked Amount 50.000			Recovery = 43.72%			
8) Phenol-d5	4.15	99	63618	13.10	ppm	-0.01
Spiked Amount 50.000			Recovery = 26.20%			
25) Nitrobenzene-d5	4.78	82	131738	28.41	ppm	-0.04
Spiked Amount 50.000			Recovery = 56.82%			
51) 2-Fluorobiphenyl	6.07	172	241706	32.88	ppm	-0.02
Spiked Amount 50.000			Recovery = 65.76%			
73) 2,4,6-Tribromophenol	7.45	330	37892	42.76	ppm	-0.04
Spiked Amount 50.000			Recovery = 85.52%			
85) Terphenyl-d14	11.29	244	261031	34.18	ppm	-0.07
Spiked Amount 50.000			Recovery = 68.36%			
Target Compounds						Qvalue
2) 1,4-Dioxane	1.84	88	10710	5.86	ppm	79

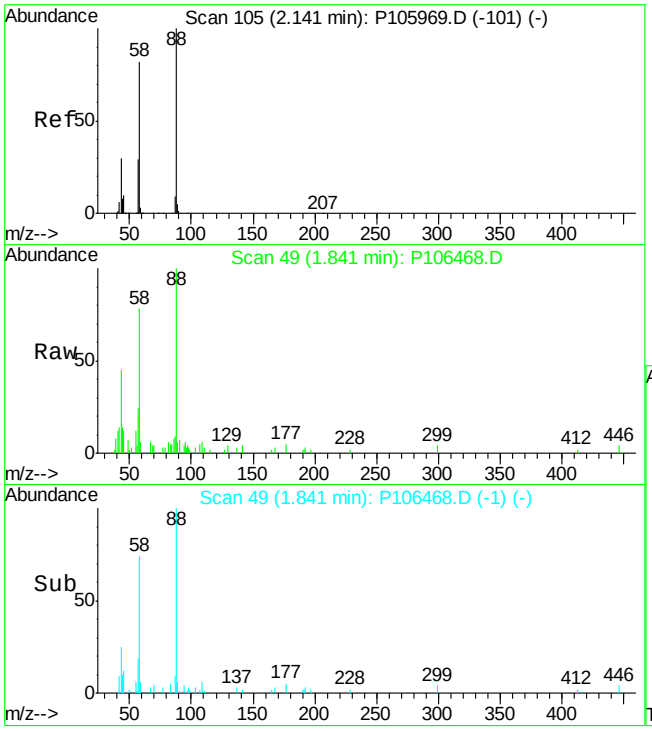
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4706\P106468.D Vial: 23
Acq On : 29 Jul 2016 3:54 pm Operator: brittanp
Sample : jc24816-3 Inst : MSP
Misc : op95904,ep4706,920 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 16:38 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 29 12:21:50 2016
Response via : Initial Calibration

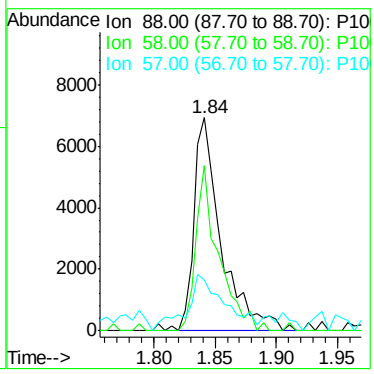




#2
1,4-Dioxane
Concen: 5.86 ppm
RT: 1.84 min Scan# 49
Delta R.T. -0.04 min
Lab File: P106468.D
Acq: 29 Jul 2016 3:54 pm

Tgt Ion: 88 Resp: 10710

Ion	Ratio	Lower	Upper
88	100		
58	77.7	28.3	88.3
57	18.4	0.0	51.4



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63330.D
Acq On : 29 Jul 2016 10:48 am
Operator : shaniceg
Sample : op95904A-MB1
Misc : op95904a,e3m3000,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 15:15:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jul 29 09:25:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.220	150	347244	4.00	ppm	-0.02
14) Fluorene-d10	13.220	176	420987	4.00	ppm	0.08
21) Fluoranthene-d10	17.449	212	652729	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.072	264	496114	4.00	ppm	-0.04
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	733246	15.17	ppm	-0.04
Spiked Amount 50.000			Recovery = 30.34%			
4) Phenol-d5	5.855	99	761616	10.66	ppm	-0.03
Spiked Amount 50.000			Recovery = 21.32%			
7) Nitrobenzene-d5	7.335	82	2252486	33.56	ppm	-0.05
Spiked Amount 50.000			Recovery = 67.12%			
15) 2-Fluorobiphenyl	10.897	172	3919497	34.30	ppm	0.03
Spiked Amount 50.000			Recovery = 68.60%			
20) 2,4,6-Tribromophenol	13.785	330	535846	30.42	ppm	0.08
Spiked Amount 50.000			Recovery = 60.84%			
28) Terphenyl-d14	18.268	244	3950562	39.66	ppm	-0.03
Spiked Amount 50.000			Recovery = 79.32%			

Target Compounds Qvalue

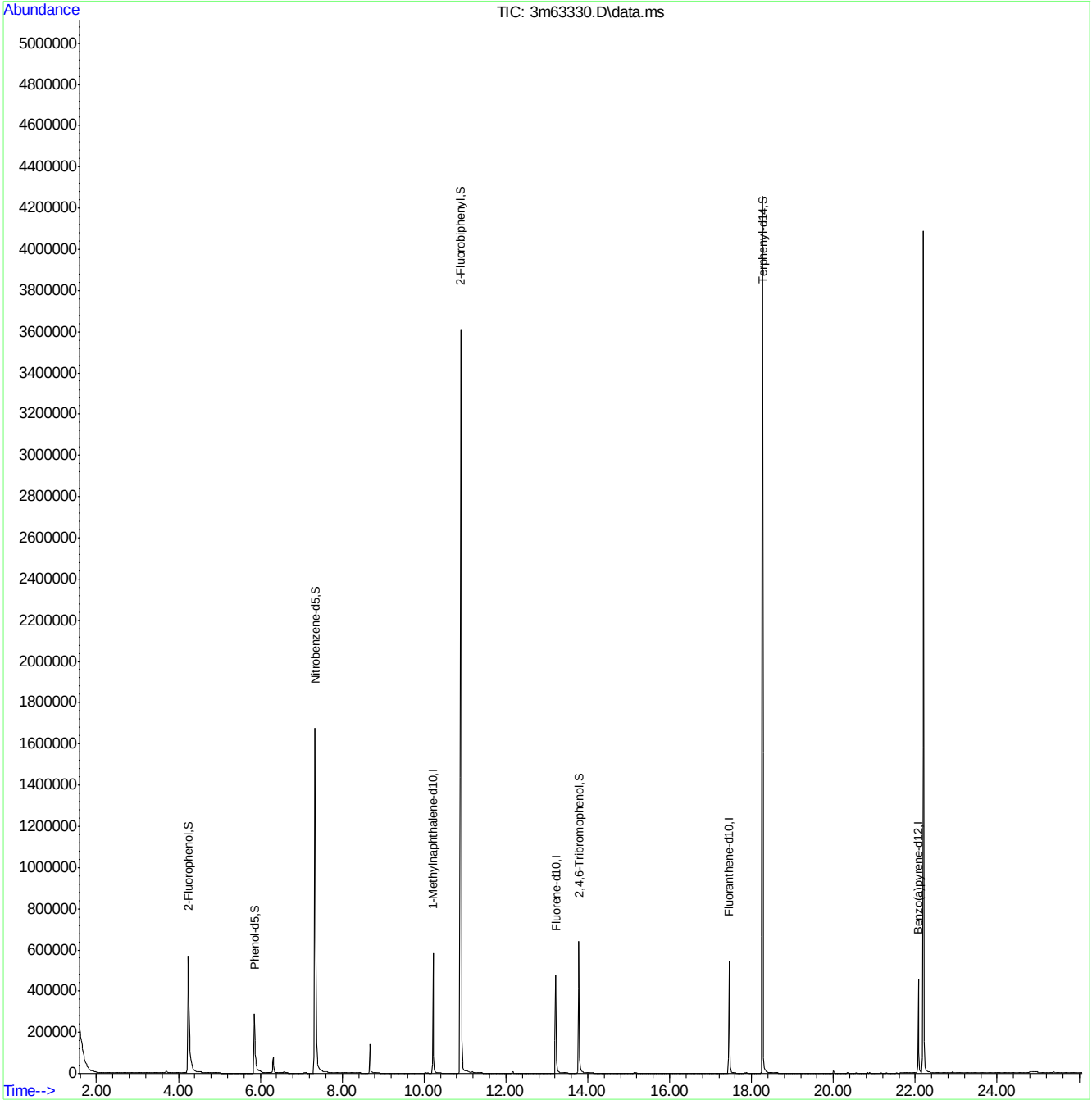
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63330.D
Acq On : 29 Jul 2016 10:48 am
Operator : shaniceg
Sample : op95904A-MB1
Misc : op95904a,e3m3000,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 15:15:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jul 29 09:25:14 2016
Response via : Initial Calibration



M3M2975SIM.M Fri Jul 29 15:15:54 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2531\
Data File : 3p55370.D
Acq On : 29 Jul 2016 11:56 pm
Operator : juliusj
Sample : op95904a-mb1
Misc : op95904a,e3p2531,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 12:06:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 26 16:24:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.839	150	68256	4.00 ppm	-0.02
14) Fluorene-d10	13.815	176	86621	4.00 ppm	-0.03
21) Fluoranthene-d10	17.983	212	128709	4.00 ppm	#-0.04
31) Benzo(a)pyrene-d12	22.554	264	87875	4.00 ppm	-0.03
System Monitoring Compounds					
3) 2-Fluorophenol	4.822	112	179611	16.29 ppm	-0.11
Spiked Amount 50.000			Recovery = 32.58%		
4) Phenol-d5	6.401	99	162759	11.03 ppm	-0.06
Spiked Amount 50.000			Recovery = 22.06%		
7) Nitrobenzene-d5	7.970	82	349538	31.50 ppm	-0.05
Spiked Amount 50.000			Recovery = 63.00%		
15) 2-Fluorobiphenyl	11.508	172	657847	30.86 ppm	-0.05
Spiked Amount 50.000			Recovery = 61.72%		
20) 2,4,6-Tribromophenol	14.361	330	121832	44.93 ppm	-0.02
Spiked Amount 50.000			Recovery = 89.86%		
28) Terphenyl-d14	18.771	244	576017	33.99 ppm	-0.02
Spiked Amount 50.000			Recovery = 67.98%		

Target Compounds Qvalue

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

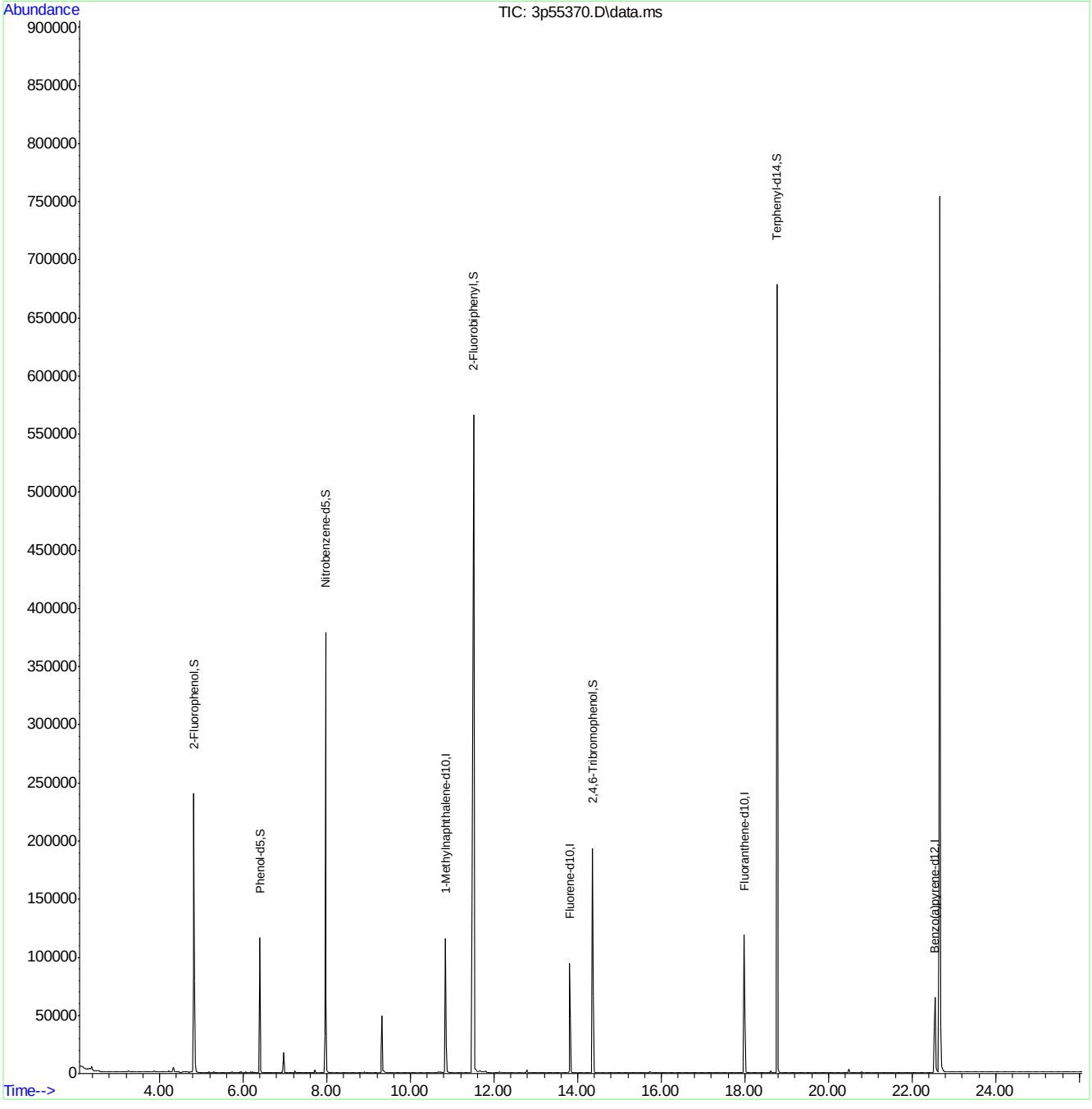
7.2.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2531\
Data File : 3p55370.D
Acq On : 29 Jul 2016 11:56 pm
Operator : juliusj
Sample : op95904a-mb1
Misc : op95904a,e3p2531,1000
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 01 12:06:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 26 16:24:11 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Aug 01 12:06:49 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63393.D
Acq On : 2 Aug 2016 12:31 pm
Operator : SHANICEG
Sample : op95939a-mb1
Misc : op95939a,e3m3004,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 02 15:03:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.097	150	419995	4.00	ppm	-0.12
14) Fluorene-d10	13.107	176	548385	4.00	ppm	-0.04
21) Fluoranthene-d10	17.341	212	844861	4.00	ppm	-0.08
31) Benzo(a)pyrene-d12	21.978	264	422043	4.00	ppm	-0.09
System Monitoring Compounds						
3) 2-Fluorophenol	4.152	112	611243	10.46	ppm	-0.12
Spiked Amount 50.000			Recovery = 20.92%			
4) Phenol-d5	5.770	99	730515	8.45	ppm	-0.10
Spiked Amount 50.000			Recovery = 16.90%			
7) Nitrobenzene-d5	7.222	82	2329756	28.70	ppm	-0.15
Spiked Amount 50.000			Recovery = 57.40%			
15) 2-Fluorobiphenyl	10.774	172	4034829	27.11	ppm	-0.10
Spiked Amount 50.000			Recovery = 54.22%			
20) 2,4,6-Tribromophenol	13.672	330	479785	20.91	ppm	-0.03
Spiked Amount 50.000			Recovery = 41.82%			
28) Terphenyl-d14	18.176	244	4665936	36.19	ppm	-0.07
Spiked Amount 50.000			Recovery = 72.38%			

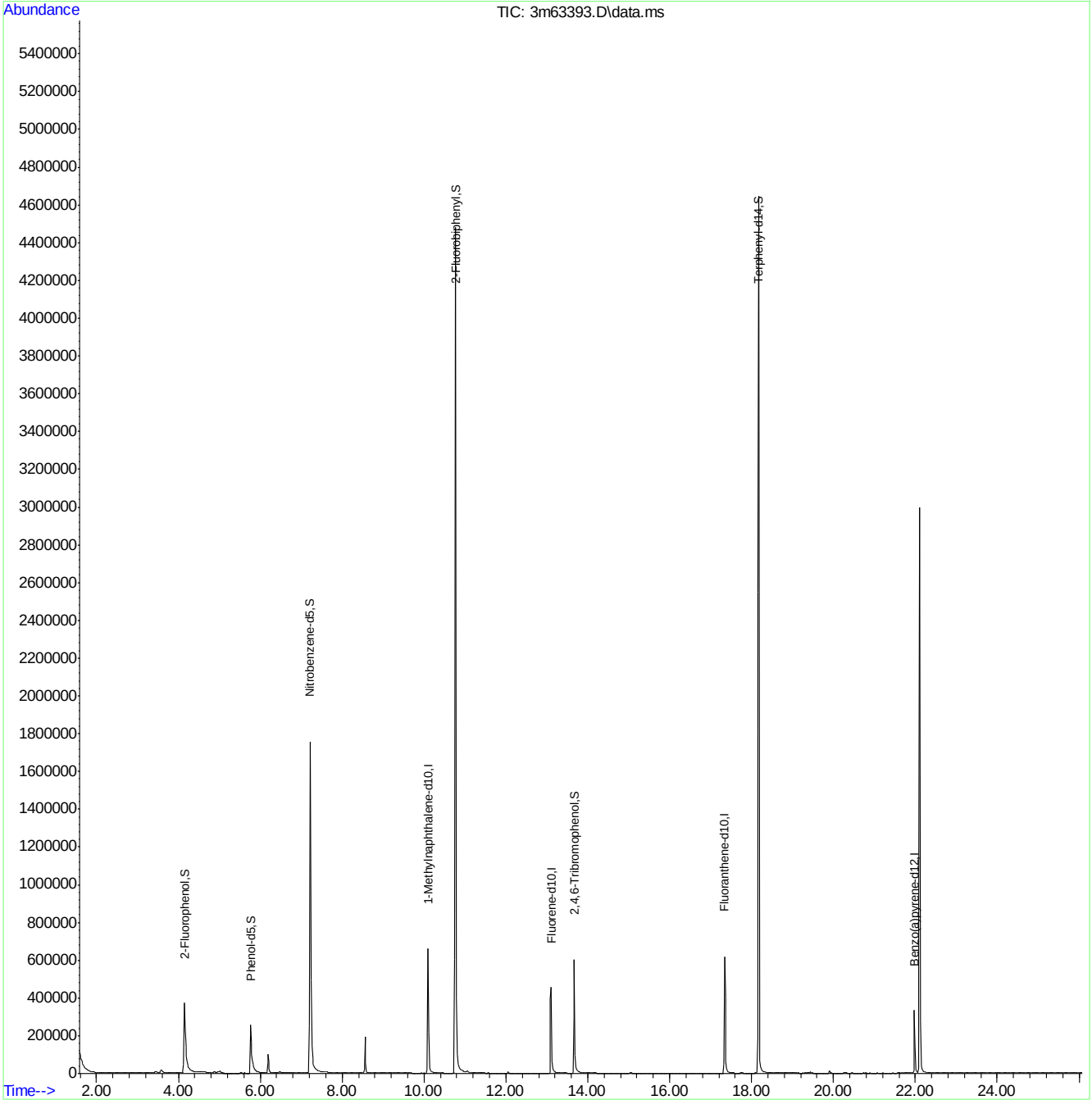
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63393.D
Acq On : 2 Aug 2016 12:31 pm
Operator : SHANICEG
Sample : op95939a-mb1
Misc : op95939a,e3m3004,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 02 15:03:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55421.D
Acq On : 2 Aug 2016 1:02 pm
Operator : ashleyd
Sample : op95939a-mb1
Misc : op95939a,e3p2534,1000,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 02 14:36:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.768	150	73226	4.00	ppm	0.00
14) Fluorene-d10	13.739	176	116523	4.00	ppm	0.00
21) Fluoranthene-d10	17.905	212	172162	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.478	264	135242	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.760	112	157113	13.29	ppm	-0.13
Spiked Amount 50.000			Recovery = 26.58%			
4) Phenol-d5	6.328	99	169072	10.68	ppm	-0.08
Spiked Amount 50.000			Recovery = 21.36%			
7) Nitrobenzene-d5	7.895	82	359878	30.23	ppm	-0.06
Spiked Amount 50.000			Recovery = 60.46%			
15) 2-Fluorobiphenyl	11.412	172	663433	23.14	ppm	-0.05
Spiked Amount 50.000			Recovery = 46.28%			
20) 2,4,6-Tribromophenol	14.286	330	118478	32.48	ppm	0.01
Spiked Amount 50.000			Recovery = 64.96%			
28) Terphenyl-d14	18.693	244	687926	30.35	ppm	0.03
Spiked Amount 50.000			Recovery = 60.70%			

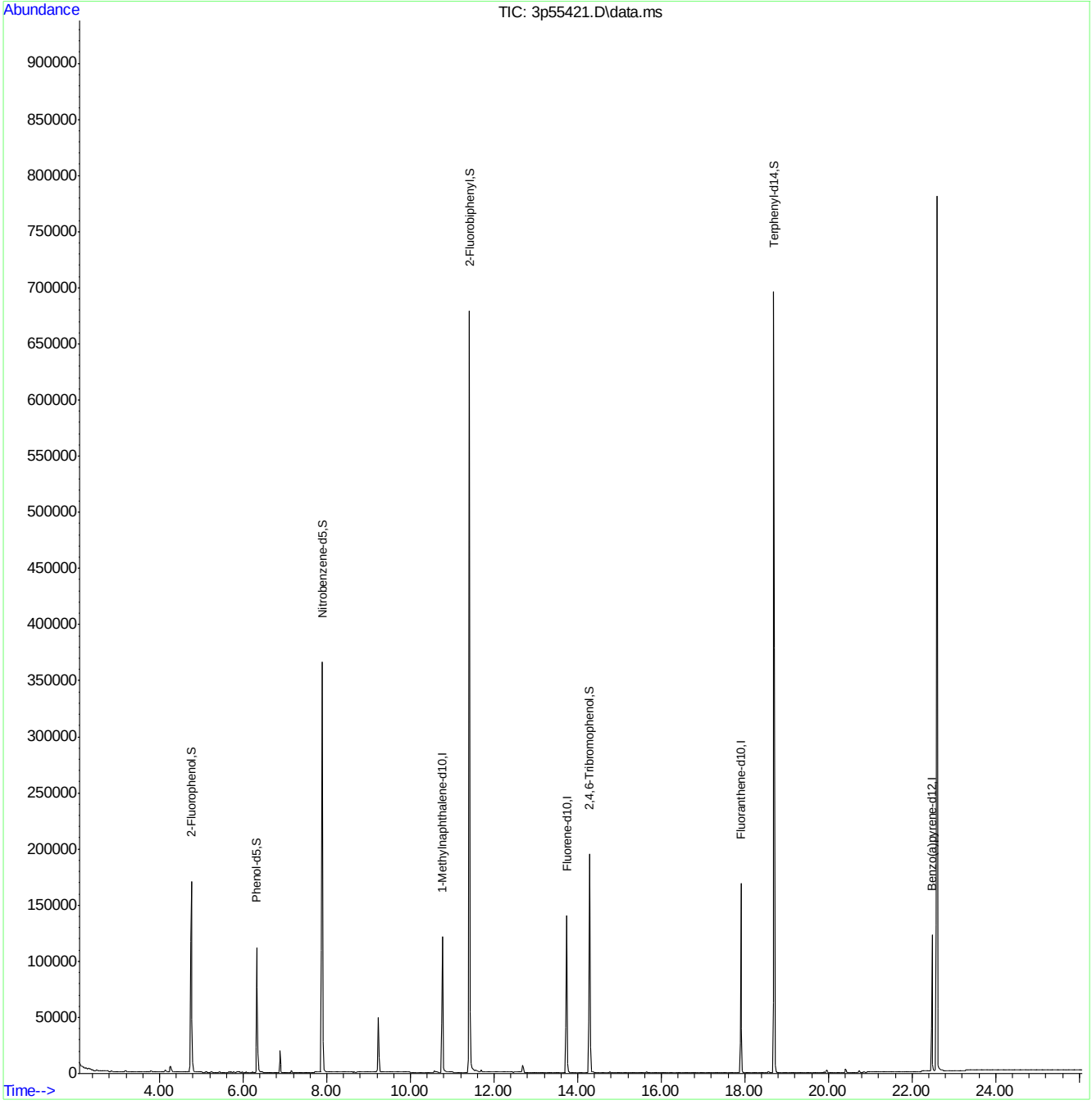
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55421.D
Acq On : 2 Aug 2016 1:02 pm
Operator : ashleyd
Sample : op95939a-mb1
Misc : op95939a,e3p2534,1000,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 02 14:36:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration



M3P2503SIM.M Tue Aug 02 14:36:52 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63331.D
Acq On : 29 Jul 2016 11:21 am
Operator : shaniceg
Sample : op95904A-BS12
Misc : op95904a,e3m3000,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 15:17:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jul 29 15:16:40 2016
Response via : Initial Calibration

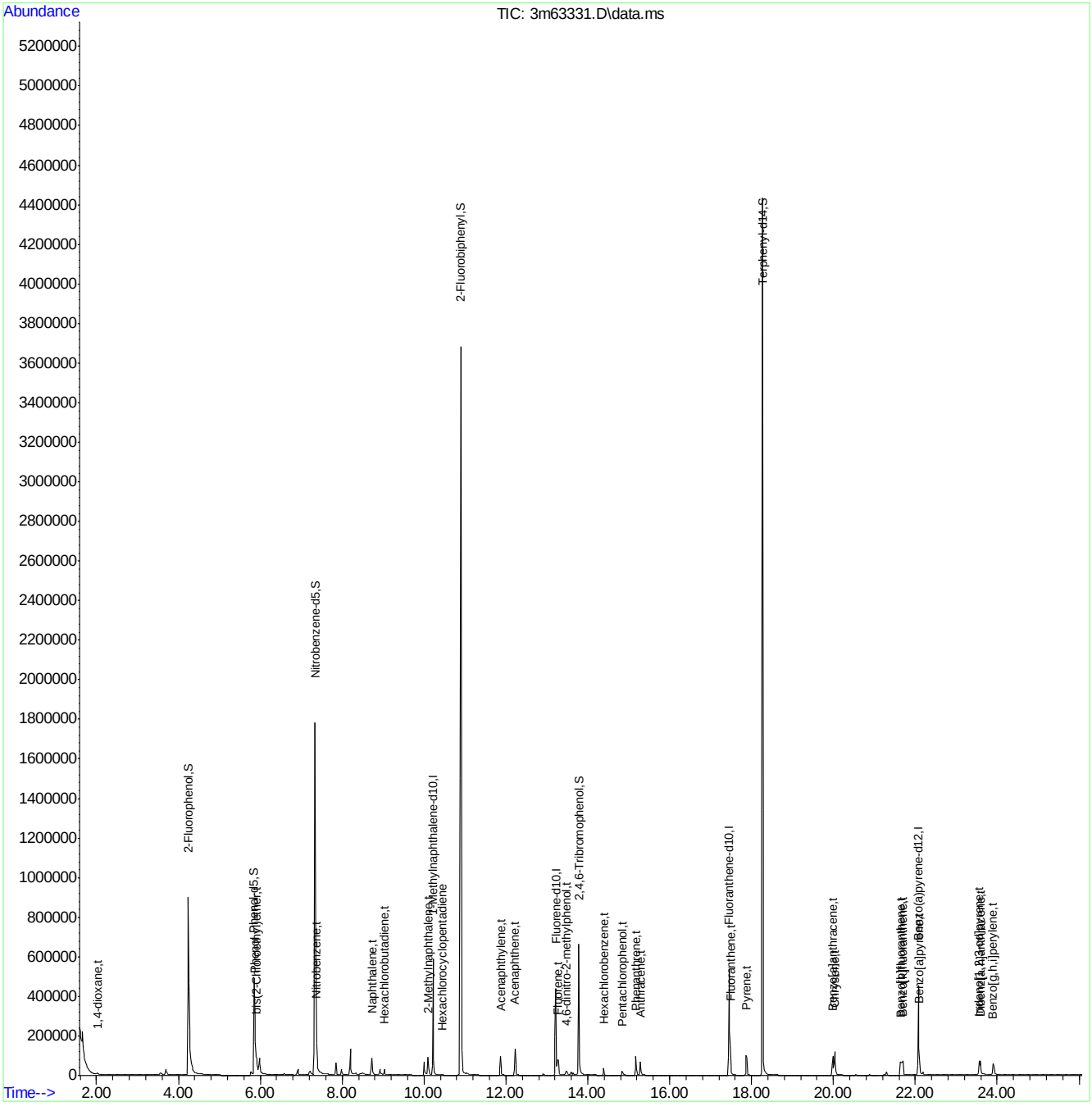
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.220	150	335112	4.00	ppm	0.00
14) Fluorene-d10	13.220	176	407272	4.00	ppm	0.08
21) Fluoranthene-d10	17.449	212	624228	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.072	264	482330	4.00	ppm	-0.04
System Monitoring Compounds						
3) 2-Fluorophenol	4.245	112	991990	21.27	ppm	-0.03
Spiked Amount 50.000			Recovery = 42.54%			
4) Phenol-d5	5.843	99	998870	14.48	ppm	-0.03
Spiked Amount 50.000			Recovery = 28.96%			
7) Nitrobenzene-d5	7.335	82	2270686	35.06	ppm	-0.04
Spiked Amount 50.000			Recovery = 70.12%			
15) 2-Fluorobiphenyl	10.897	172	4000169	36.19	ppm	0.03
Spiked Amount 50.000			Recovery = 72.38%			
20) 2,4,6-Tribromophenol	13.785	330	574197	33.70	ppm	0.08
Spiked Amount 50.000			Recovery = 67.40%			
28) Terphenyl-d14	18.268	244	4005397	42.05	ppm	-0.03
Spiked Amount 50.000			Recovery = 84.10%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.019	88	7344	0.40	ppm	# 44
5) Phenol	5.867	94	124237	1.73	ppm	# 88
6) bis(2-Chloroethyl)ether	5.915	93	32797	0.62	ppm	# 50
8) Nitrobenzene	7.372	77	58464	0.89	ppm	67
9) Naphthalene	8.728	128	115891	0.59	ppm	97
10) Hexachlorobutadiene	9.029	225	16954	0.48	ppm	82
11) 2-Methylnaphthalene	10.097	141	66910	0.65	ppm	# 68
13) Hexachlorocyclopentadiene	10.445	237	1319	0.22	ppm	89
16) Acenaphthylene	11.869	152	120479	0.89	ppm	99
17) Acenaphthene	12.225	153	78303	0.89	ppm	97
18) 4,6-dinitro-2-methylph...	13.484	198	35742	2.79	ppm	# 61
19) Fluorene	13.277	166	80898	0.82	ppm	97
22) Hexachlorobenzene	14.389	284	23960	0.72	ppm	96
23) Pentachlorophenol	14.837	266	27730	2.29	ppm	91
24) Phenanthrene	15.177	178	128195	0.93	ppm	100
25) Anthracene	15.286	178	127832	0.98	ppm	91
26) Fluoranthene	17.480	202	152854	0.90	ppm	99
27) Pyrene	17.867	202	157498	0.98	ppm	99
29) Benzo[a]anthracene	19.983	228	119893	0.89	ppm	99
30) Chrysene	20.030	228	123748	0.87	ppm	100
32) Benzo[b]fluoranthene	21.639	252	99282	0.63	ppm	78
33) Benzo[k]fluoranthene	21.696	252	104708	0.74	ppm	92
34) Benzo[a]pyrene	22.091	252	98346	0.68	ppm	87
35) Indeno[1,2,3-cd]pyrene	23.558	276	96644	0.66	ppm	98
36) Dibenz[a,h]anthracene	23.595	278	78857	0.65	ppm	98
37) Benzo[g,h,i]perylene	23.896	276	84572	0.63	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63331.D
Acq On : 29 Jul 2016 11:21 am
Operator : shaniceg
Sample : op95904A-BS12
Misc : op95904a,e3m3000,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 15:17:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jul 29 15:16:40 2016
Response via : Initial Calibration



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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55422.D
Acq On : 2 Aug 2016 1:35 pm
Operator : ashleyd
Sample : op95939a-bs12
Misc : op95939a,e3p2534,1000,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 02 14:37:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.768	150	84499	4.00 ppm	0.00
14) Fluorene-d10	13.740	176	134429	4.00 ppm	0.00
21) Fluoranthene-d10	17.905	212	203571	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.478	264	152660	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.760	112	227589	16.68 ppm	-0.13
Spiked Amount 50.000			Recovery = 33.36%		
4) Phenol-d5	6.328	99	228668	12.52 ppm	-0.08
Spiked Amount 50.000			Recovery = 25.04%		
7) Nitrobenzene-d5	7.895	82	391932	28.53 ppm	-0.06
Spiked Amount 50.000			Recovery = 57.06%		
15) 2-Fluorobiphenyl	11.412	172	723153	21.86 ppm	-0.05
Spiked Amount 50.000			Recovery = 43.72%		
20) 2,4,6-Tribromophenol	14.286	330	141752	33.69 ppm	0.01
Spiked Amount 50.000			Recovery = 67.38%		
28) Terphenyl-d14	18.693	244	804231	30.00 ppm	0.03
Spiked Amount 50.000			Recovery = 60.00%		
Target Compounds					Qvalue
2) 1,4-dioxane	2.489	88	4041	0.47 ppm #	40
5) Phenol	6.353	94	24073	1.52 ppm #	75
6) bis(2-Chloroethyl)ether	6.461	93	8260	0.55 ppm	85
8) Nitrobenzene	7.933	77	8213	0.54 ppm	89
9) Naphthalene	9.288	128	26088	0.47 ppm	92
10) Hexachlorobutadiene	9.590	225	2440	0.26 ppm	96
11) 2-Methylnaphthalene	10.624	141	12950	0.43 ppm	71
13) Hexachlorocyclopentadiene	11.006	237	477	0.22 ppm	93
16) Acenaphthylene	12.391	152	21831	0.46 ppm	97
17) Acenaphthene	12.756	153	18654	0.62 ppm	87
18) 4,6-dinitro-2-methylph...	13.947	198	11025	4.76 ppm #	45
19) Fluorene	13.796	166	16173	0.57 ppm	89
22) Hexachlorobenzene	14.891	284	5608	0.50 ppm	70
23) Pentachlorophenol	15.324	266	17619	3.55 ppm	99
24) Phenanthrene	15.679	178	32315	0.68 ppm	99
25) Anthracene	15.787	178	26349	0.65 ppm	99
26) Fluoranthene	17.936	202	29670	0.72 ppm	99
27) Pyrene	18.323	202	34792	0.76 ppm	97
29) Benzo[a]anthracene	20.393	228	30750	0.81 ppm	98
30) Chrysene	20.455	228	29165	0.67 ppm	100
32) Benzo[b]fluoranthene	22.062	252	29976	0.59 ppm	96
33) Benzo[k]fluoranthene	22.093	252	25332	0.59 ppm	99
34) Benzo[a]pyrene	22.497	252	19087	0.48 ppm	95
35) Indeno[1,2,3-cd]pyrene	24.021	276	24979	0.57 ppm	93
36) Dibenz[a,h]anthracene	24.058	278	20694	0.61 ppm	53
37) Benzo[g,h,i]perylene	24.397	276	21057	0.49 ppm	88

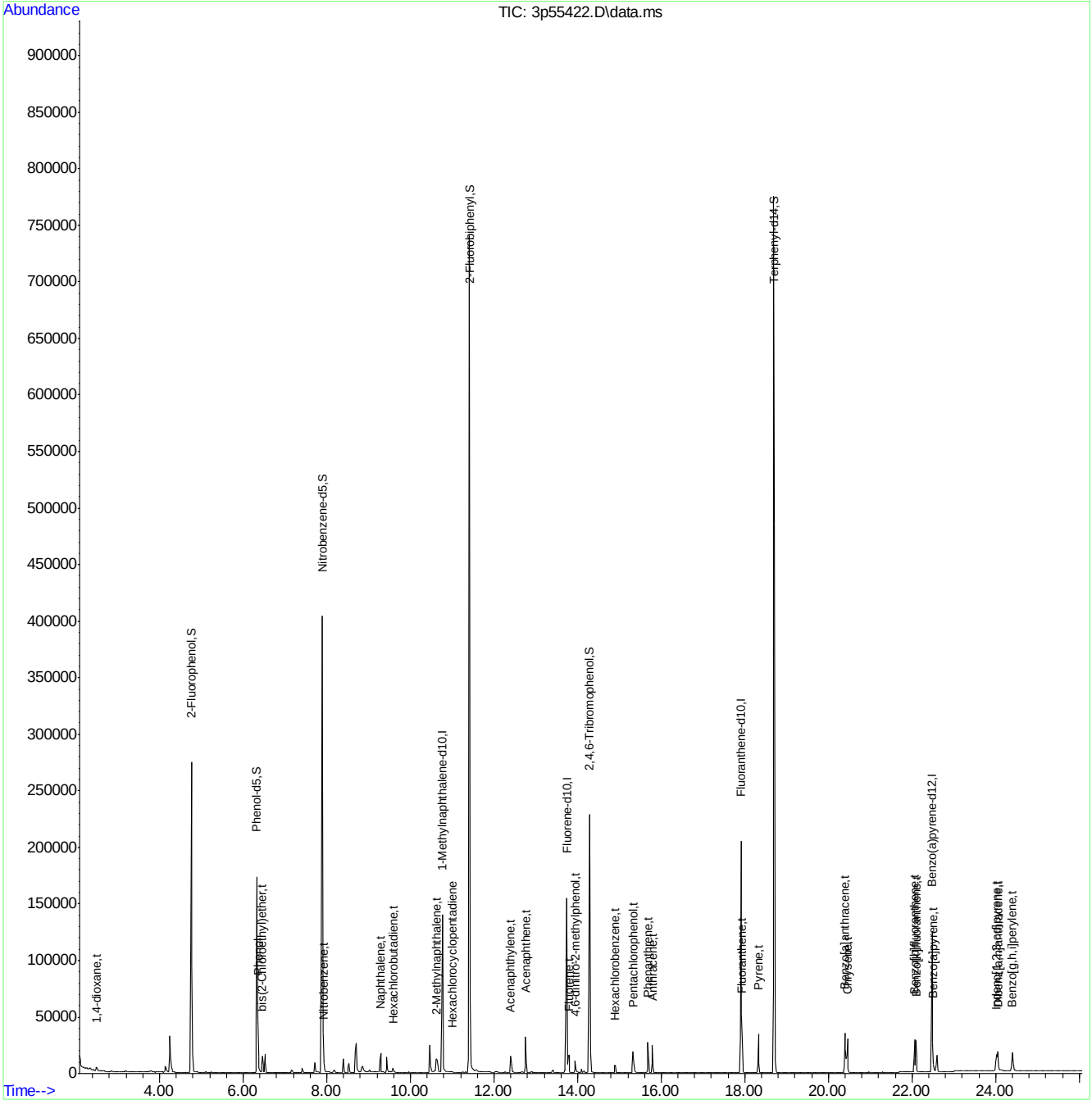
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55422.D
Acq On : 2 Aug 2016 1:35 pm
Operator : ashleyd
Sample : op95939a-bs12
Misc : op95939a,e3p2534,1000,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 02 14:37:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration



M3P2503SIM.M Tue Aug 02 14:37:13 2016 Page: 2

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55591.D
Acq On : 9 Aug 2016 3:43 pm
Operator : ashleyd
Sample : op95939a-ms
Misc : op95939a,e3p2546,500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 16:45:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 09 15:21:22 2016
Response via : Initial Calibration

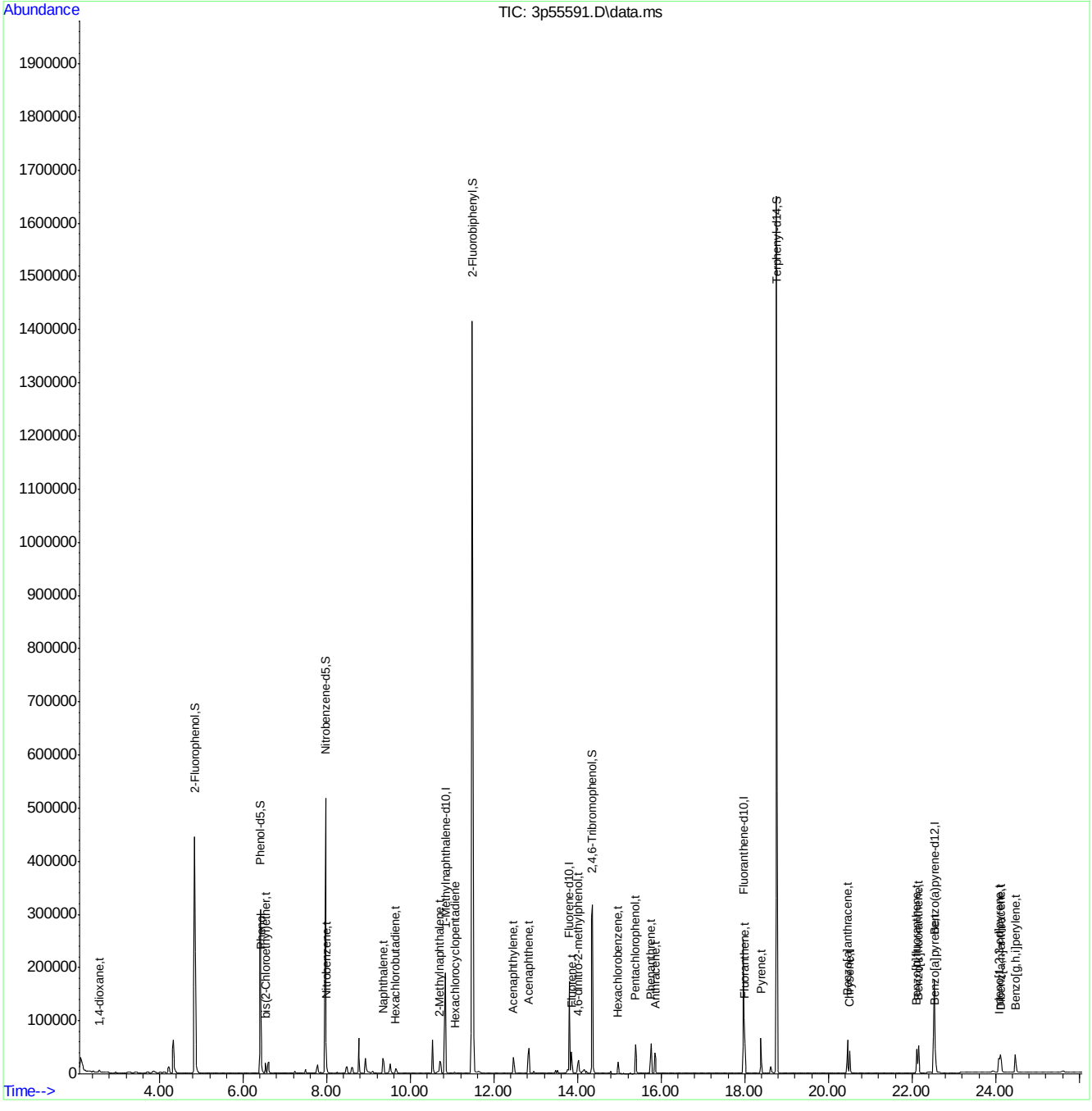
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.839	150	128510	4.00	ppm		0.14
14) Fluorene-d10	13.796	176	188202	4.00	ppm		0.13
21) Fluoranthene-d10	17.967	212	288496	4.00	ppm		0.09
31) Benzo(a)pyrene-d12	22.535	264	206649	4.00	ppm		0.08
System Monitoring Compounds							
3) 2-Fluorophenol	4.838	112	402890	19.41	ppm		-0.02
Spiked Amount 50.000			Recovery = 38.82%				
4) Phenol-d5	6.413	99	460538	16.58	ppm		0.05
Spiked Amount 50.000			Recovery = 33.16%				
7) Nitrobenzene-d5	7.970	82	583624	27.93	ppm		0.06
Spiked Amount 50.000			Recovery = 55.86%				
15) 2-Fluorobiphenyl	11.484	172	1380597	29.81	ppm		0.08
Spiked Amount 50.000			Recovery = 59.62%				
20) 2,4,6-Tribromophenol	14.342	330	275105	46.70	ppm		0.15
Spiked Amount 50.000			Recovery = 93.40%				
28) Terphenyl-d14	18.755	244	1486279	39.13	ppm		0.12
Spiked Amount 50.000			Recovery = 78.26%				
Target Compounds							Qvalue
2) 1,4-dioxane	2.566	88	5696	0.44	ppm		68
5) Phenol	6.425	94	49851	2.15	ppm	#	79
6) bis(2-Chloroethyl)ether	6.534	93	12514	0.55	ppm		95
8) Nitrobenzene	7.989	77	12535	0.54	ppm		93
9) Naphthalene	9.345	128	45566	0.54	ppm		98
10) Hexachlorobutadiene	9.646	225	6090	0.43	ppm		72
11) 2-Methylnaphthalene	10.696	141	24019	0.53	ppm		79
13) Hexachlorocyclopentadiene	11.078	237	2072	0.37	ppm		90
16) Acenaphthylene	12.463	152	43565	0.66	ppm		80
17) Acenaphthene	12.833	153	31909	0.76	ppm		99
18) 4,6-dinitro-2-methylph...	14.022	198	29401	7.77	ppm		96
19) Fluorene	13.853	166	32861	0.83	ppm	#	68
22) Hexachlorobenzene	14.968	284	13146	0.83	ppm		85
23) Pentachlorophenol	15.386	266	40410	5.57	ppm		98
24) Phenanthrene	15.757	178	64190	0.96	ppm		94
25) Anthracene	15.849	178	52374	0.91	ppm		96
26) Fluoranthene	17.998	202	56603	0.98	ppm		100
27) Pyrene	18.385	202	70075	1.08	ppm		97
29) Benzo[a]anthracene	20.455	228	62263	1.15	ppm		93
30) Chrysene	20.501	228	51831	0.84	ppm		88
32) Benzo[b]fluoranthene	22.108	252	64312	0.94	ppm		87
33) Benzo[k]fluoranthene	22.155	252	41983	0.73	ppm		89
34) Benzo[a]pyrene	22.554	252	36928	0.68	ppm		95
35) Indeno[1,2,3-cd]pyrene	24.077	276	50300	0.84	ppm		92
36) Dibenz[a,h]anthracene	24.115	278	38147	0.83	ppm		52
37) Benzo[g,h,i]perylene	24.472	276	43213	0.74	ppm		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55591.D
Acq On : 9 Aug 2016 3:43 pm
Operator : ashleyd
Sample : op95939a-ms
Misc : op95939a,e3p2546,500
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 09 16:45:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 09 15:21:22 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55592.D
Acq On : 9 Aug 2016 4:14 pm
Operator : ashleyd
Sample : op95939a-msd
Misc : op95939a,e3p2546,500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 16:45:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 09 16:30:30 2016
Response via : Initial Calibration

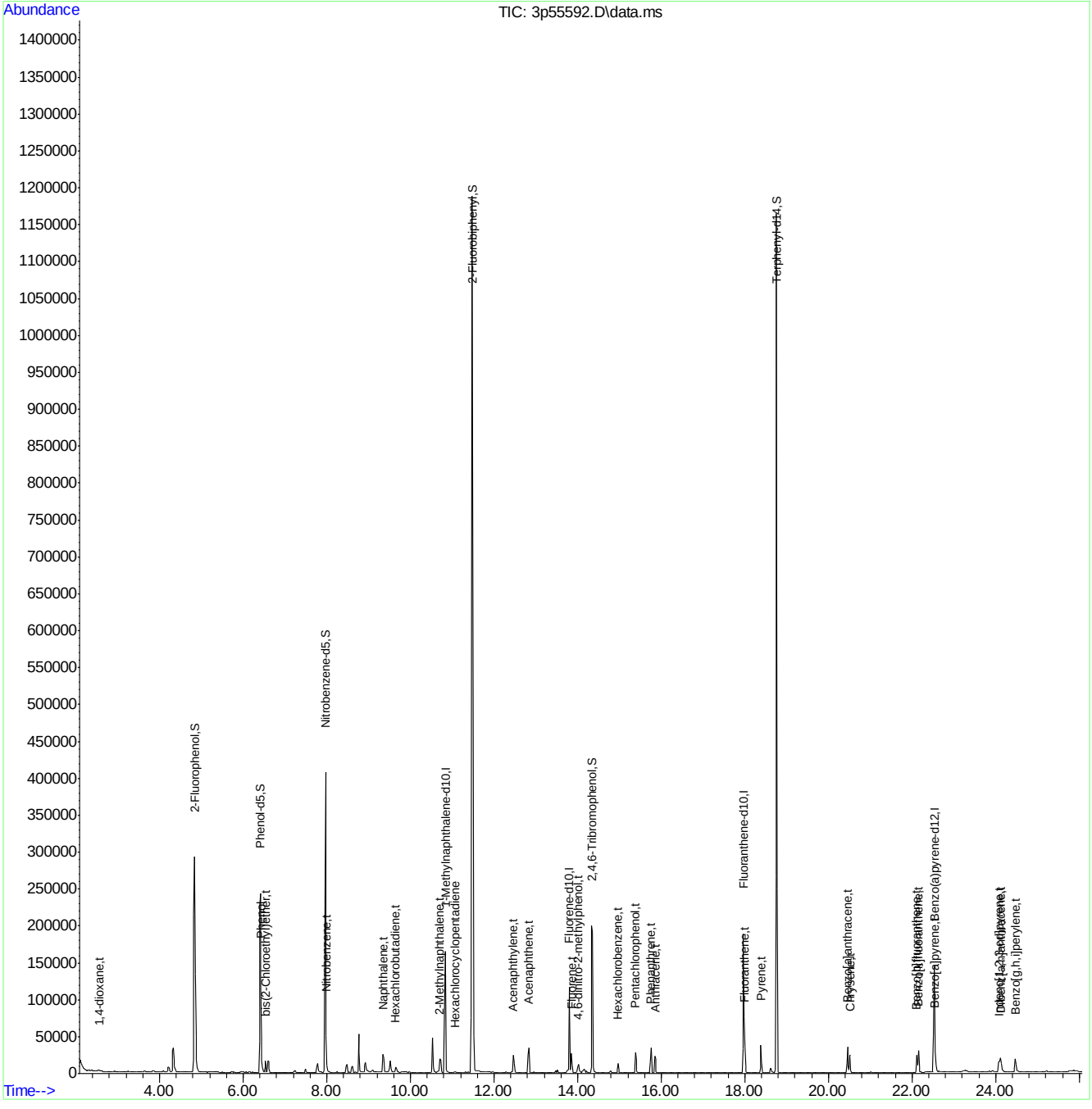
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.839	150	112822	4.00	ppm	#-0.04
14) Fluorene-d10	13.796	176	128021	4.00	ppm	-0.05
21) Fluoranthene-d10	17.967	212	212379	4.00	ppm	-0.04
31) Benzo(a)pyrene-d12	22.535	264	164417	4.00	ppm	-0.03
System Monitoring Compounds						
3) 2-Fluorophenol	4.838	112	333130	18.28	ppm	-0.10
Spiked Amount 50.000			Recovery = 36.56%			
4) Phenol-d5	6.413	99	405910	16.65	ppm	-0.06
Spiked Amount 50.000			Recovery = 33.30%			
7) Nitrobenzene-d5	7.970	82	486974	26.55	ppm	-0.07
Spiked Amount 50.000			Recovery = 53.10%			
15) 2-Fluorobiphenyl	11.484	172	1191161	37.81	ppm	-0.07
Spiked Amount 50.000			Recovery = 75.62%			
20) 2,4,6-Tribromophenol	14.342	330	180044	44.93	ppm	-0.04
Spiked Amount 50.000			Recovery = 89.86%			
28) Terphenyl-d14	18.755	244	1007099	36.02	ppm	-0.02
Spiked Amount 50.000			Recovery = 72.04%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.551	88	3275	0.29	ppm #	65
5) Phenol	6.425	94	42673	2.09	ppm #	74
6) bis(2-Chloroethyl)ether	6.534	93	10706	0.53	ppm	92
8) Nitrobenzene	7.989	77	8897	0.44	ppm	97
9) Naphthalene	9.345	128	39395	0.53	ppm	99
10) Hexachlorobutadiene	9.646	225	4958	0.39	ppm	73
11) 2-Methylnaphthalene	10.696	141	20289	0.51	ppm	79
13) Hexachlorocyclopentadiene	11.078	237	1381	0.32	ppm	89
16) Acenaphthylene	12.463	152	33763	0.75	ppm	80
17) Acenaphthene	12.833	153	23030	0.81	ppm	98
18) 4,6-dinitro-2-methylph...	14.022	198	14186	5.99	ppm	91
19) Fluorene	13.853	166	20494	0.76	ppm #	67
22) Hexachlorobenzene	14.968	284	7816	0.67	ppm	83
23) Pentachlorophenol	15.386	266	23009	4.37	ppm	96
24) Phenanthrene	15.757	178	39230	0.79	ppm	95
25) Anthracene	15.849	178	31537	0.75	ppm	95
26) Fluoranthene	17.998	202	35031	0.82	ppm	99
27) Pyrene	18.384	202	41122	0.86	ppm	98
29) Benzo[a]anthracene	20.455	228	34037	0.86	ppm	95
30) Chrysene	20.517	228	30216	0.66	ppm	97
32) Benzo[b]fluoranthene	22.108	252	35537	0.65	ppm	87
33) Benzo[k]fluoranthene	22.154	252	23866	0.52	ppm	89
34) Benzo[a]pyrene	22.553	252	19928	0.46	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.077	276	27109	0.57	ppm	92
36) Dibenz[a,h]anthracene	24.115	278	21104	0.58	ppm	52
37) Benzo[g,h,i]perylene	24.472	276	23830	0.51	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55592.D
Acq On : 9 Aug 2016 4:14 pm
Operator : ashleyd
Sample : op95939a-msd
Misc : op95939a,e3p2546,500
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 09 16:45:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 09 16:30:30 2016
Response via : Initial Calibration

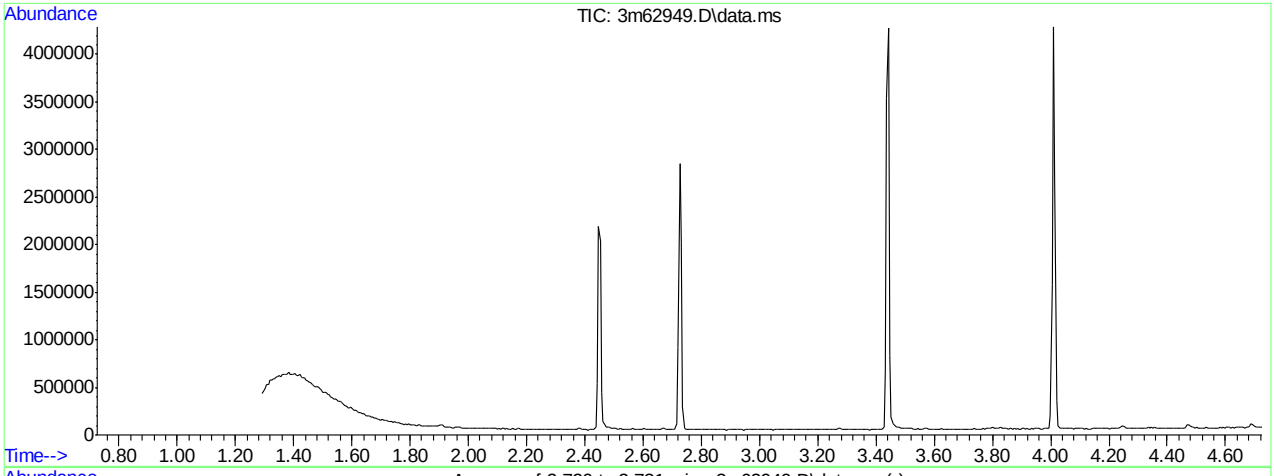


SGS ACCUTEST JC24816

DFTPP

Data File : C:\msdchem\1\DATA\E3M2975\3m62949.D Vial: 1
Acq On : 14 Jul 2016 9:30 am Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m2975 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 268, 269, 270; Background Corrected with Scan 264

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.9	93493	PASS
68	69	0.00	2	1.0	952	PASS
69	198	0.00	100	48.6	99021	PASS
70	69	0.00	2	0.3	292	PASS
127	198	40	60	51.0	104053	PASS
197	198	0.00	1	0.3	639	PASS
198	198	100	100	100.0	203896	PASS
199	198	5	9	7.0	14288	PASS
275	198	10	30	22.9	46742	PASS
365	198	1	100	3.6	7258	PASS
441	443	0.10	100	77.8	26169	PASS
442	198	40	100	85.8	174995	PASS
443	442	17	23	19.2	33633	PASS

3m62949.D DFTPP3M.M Fri Jul 15 17:10:05 2016 RPT1

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.80	780	50.00	23989	60.85	867	70.10	292
36.85	282	51.00	93493	61.20	841	73.00	1571
37.10	251	52.00	4391	61.95	1401	74.00	8270
37.95	1347	53.20	195	63.10	3792	75.00	14425
39.05	7079	54.00	80	63.90	121	76.15	5735
40.00	153	54.90	522	64.10	391	77.10	97888
43.05	643	56.00	2572	65.00	1887	78.00	6998
43.95	95	57.00	6041	65.85	232	79.00	5682
45.20	181	57.90	301	68.00	952	80.00	4121
48.05	1098	58.80	90	69.00	99021	81.05	6340
49.00	2458	59.85	223	69.80	198	81.95	2010

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.00	1730	93.95	925	102.95	1237	112.20	443
84.00	1130	94.80	131	104.00	2295	113.00	324
84.95	932	95.10	98	104.90	275	113.80	100
86.00	1924	95.80	260	105.10	2132	114.50	139
86.80	176	96.05	281	105.90	477	115.10	517
87.05	922	97.95	6986	107.00	29784	115.90	371
87.95	259	99.00	6718	107.95	4955	116.95	20106
90.95	1792	99.80	150	108.90	470	118.00	1660
91.90	413	99.95	528	109.95	56525	118.95	281
92.05	1709	101.00	4893	110.95	7971	119.20	210
92.95	9486	102.00	215	111.90	550	119.90	514

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
120.95	335	130.00	3555	137.85	442	144.95	441
121.90	1518	130.85	331	138.70	141	145.60	304
122.90	696	131.10	282	138.90	104	146.00	423
123.10	2538	132.05	544	139.90	127	147.05	2269
123.80	392	132.80	190	140.90	2952	148.00	4977
124.05	1204	133.40	116	141.05	2336	148.95	1547
124.40	172	134.05	1095	141.90	908	150.00	494
125.05	1600	134.95	3478	142.15	757	151.15	987
127.00	104053	135.80	494	142.70	651	152.00	331
128.05	8192	136.00	611	143.05	547	152.80	313
129.00	41717	137.00	1821	144.00	338	153.00	1377

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
153.90	1491	162.95	302	170.70	389	177.05	1410
155.00	3313	163.60	80	171.15	369	177.90	274
156.00	4526	163.80	214	171.75	581	178.10	290
157.10	1201	164.20	178	172.10	337	179.00	7154
157.85	398	165.00	1370	172.70	129	180.00	4620
158.10	694	166.05	1449	172.95	920	180.95	2398
159.05	878	166.95	10807	173.70	283	181.70	169
159.95	1482	167.95	5557	174.05	1826	182.20	100
161.00	2558	168.95	1254	175.05	3871	182.80	126
161.85	718	169.65	270	176.00	1063	183.00	146
162.10	240	170.00	129	176.80	161	183.40	111

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
184.00	588	193.00	2487	202.90	701	212.20	108
185.15	4273	193.95	536	203.10	549	213.00	125
186.00	30404	194.80	315	204.05	8251	213.90	89
187.00	8487	195.00	253	205.05	11894	214.65	518

187.90	432	196.00	6915	206.00	52107	215.05	395
188.10	448	197.00	639	206.95	6824	215.90	242
188.95	1910	197.90	203896	207.95	1376	217.00	13616
189.95	375	198.90	14288	209.05	789	217.80	808
190.70	105	199.95	1342	210.10	1323	218.05	1006
190.90	582	201.10	387	210.50	614	219.10	117
192.00	2244	201.50	1424	211.05	2473	219.70	77

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
220.00	152	229.00	2554	237.05	1156	247.05	818
221.05	11183	229.80	94	238.05	290	248.15	200
221.70	1528	230.90	683	238.85	317	249.05	712
222.00	983	231.10	591	239.65	338	250.00	86
223.00	3570	231.85	265	241.00	705	251.10	314
224.00	30289	232.75	285	241.70	136	252.10	537
224.95	7608	233.70	355	242.10	1431	252.90	454
226.05	613	234.05	604	243.00	1372	253.10	522
227.00	12039	235.00	863	244.05	22305	253.70	79
227.80	884	235.95	700	245.00	3084	255.00	118573
228.00	1084	236.70	280	246.00	4456	256.00	17297

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.95	1127	266.00	241	276.05	5603	288.70	81
258.00	6788	267.60	75	276.95	4368	290.70	120
259.00	790	267.90	168	277.90	483	292.90	189
259.95	219	268.10	86	278.10	245	293.05	960
260.80	143	269.95	176	280.80	75	294.10	203
261.10	152	271.50	188	281.05	179	296.00	12489
262.90	80	272.15	601	283.00	209	296.90	1981
263.85	185	272.90	352	283.20	193	298.10	130
264.80	264	273.05	2929	283.80	158	301.80	402
265.00	2166	274.05	8593	284.05	389	303.00	1665
265.70	223	275.00	46742	284.95	865	304.10	399

Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
307.80	192	323.05	5445	335.10	593	353.90	153
309.10	94	323.90	440	336.05	229	354.10	1218
309.75	276	324.10	279	338.55	153	354.70	98
313.10	114	325.30	110	340.80	287	355.05	203
314.00	789	325.90	92	341.00	391	365.00	7258
314.60	74	326.95	1136	343.90	82	366.00	1197
315.05	1316	328.00	379	345.85	1198	370.00	84
315.85	1099	331.85	336	347.00	328	370.90	433
317.00	236	333.05	651	351.95	1819	371.80	86
321.00	483	334.05	2460	353.00	546	372.00	2842
321.85	286	334.80	281	353.20	584	372.85	631

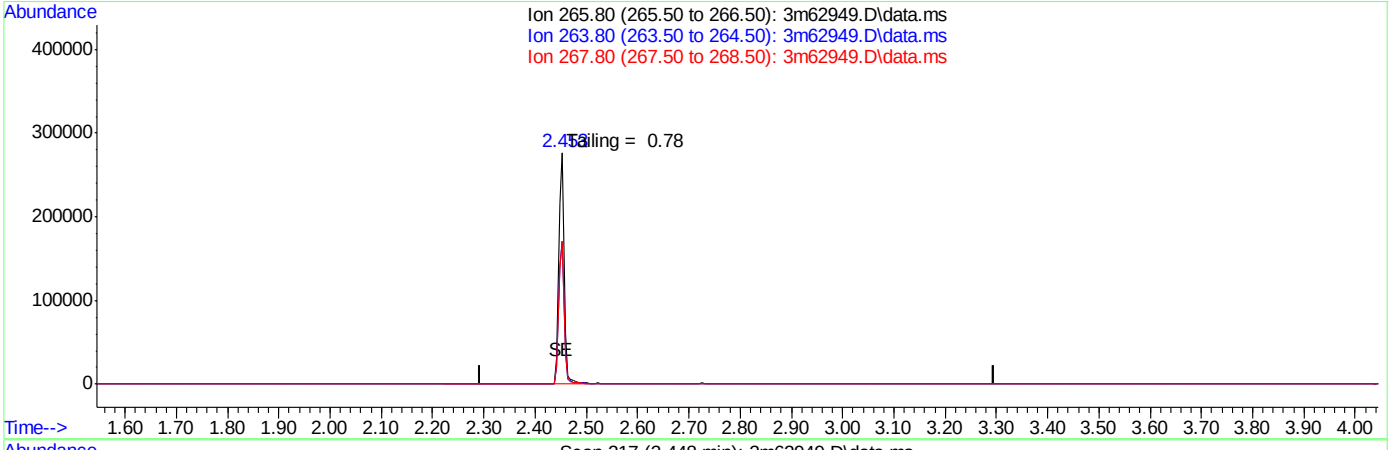
Average of 2.720 to 2.731 min.: 3m62949.D\data.ms
dftpp
Modified:subtracted

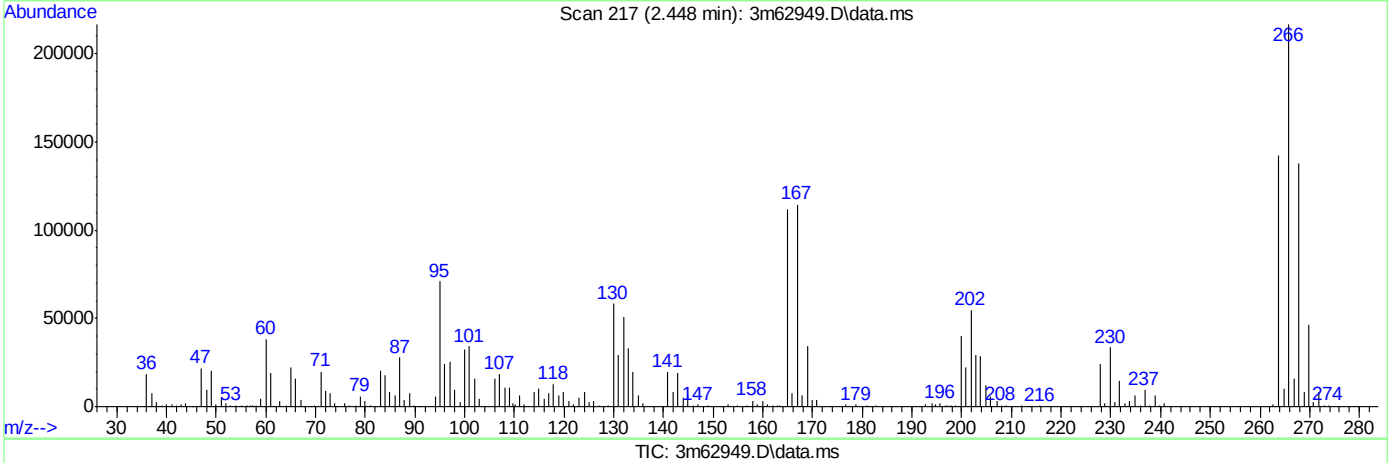
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
373.20	205	422.10	457	444.90	96		
382.80	520	422.90	546				
390.05	439	423.05	9075				
390.90	98	424.00	2332				
391.30	83	424.70	90				
400.70	124	425.50	77				
402.00	1136	439.80	286				
403.00	1853	441.00	26169				
404.05	626	442.00	174995				
405.00	113	443.00	33633				
420.95	1401	443.95	3002				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62949.D
Acq On : 14 Jul 2016 9:30 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2975
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 17:09:34 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: 3m62949.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 JC24816

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62949.D
Acq On    : 14 Jul 2016   9:30 am
Operator  : ashleyd
Sample    : dftpp
Misc      : op95160a,e3m2975
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jul 15 17:09:34 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
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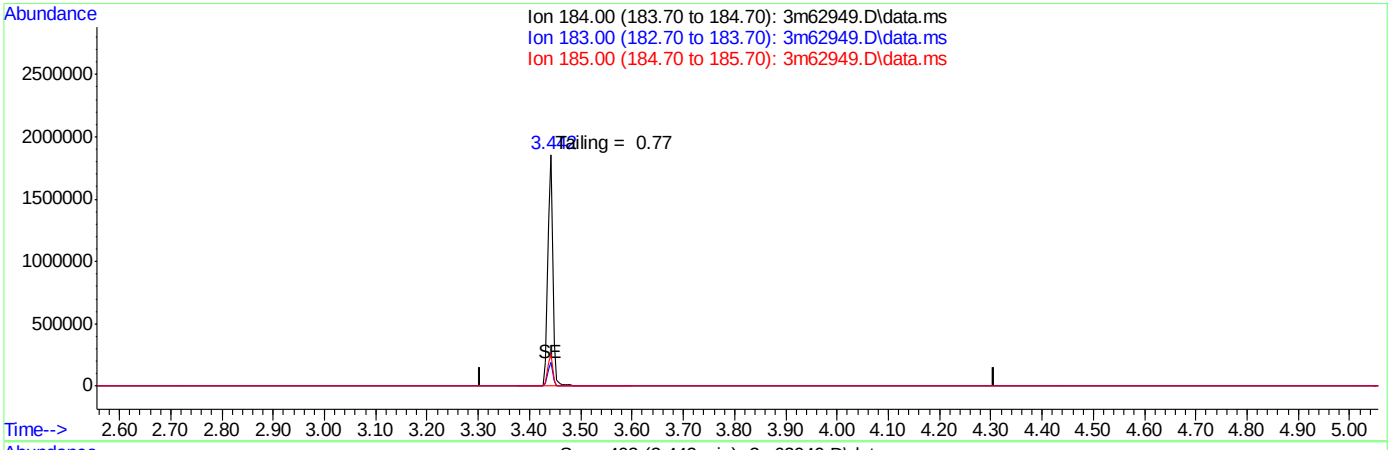
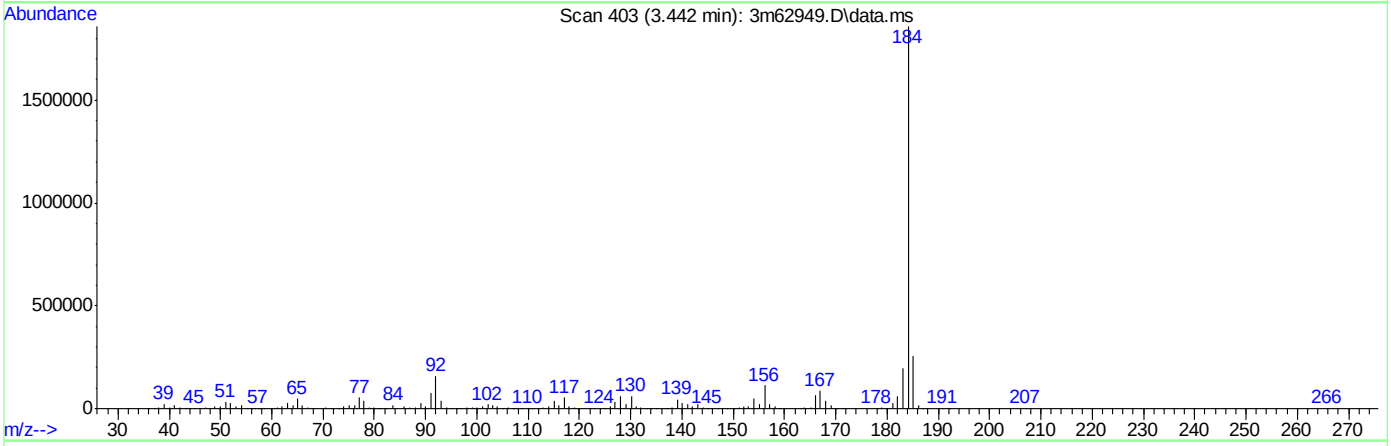




TIC: 3m62949.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

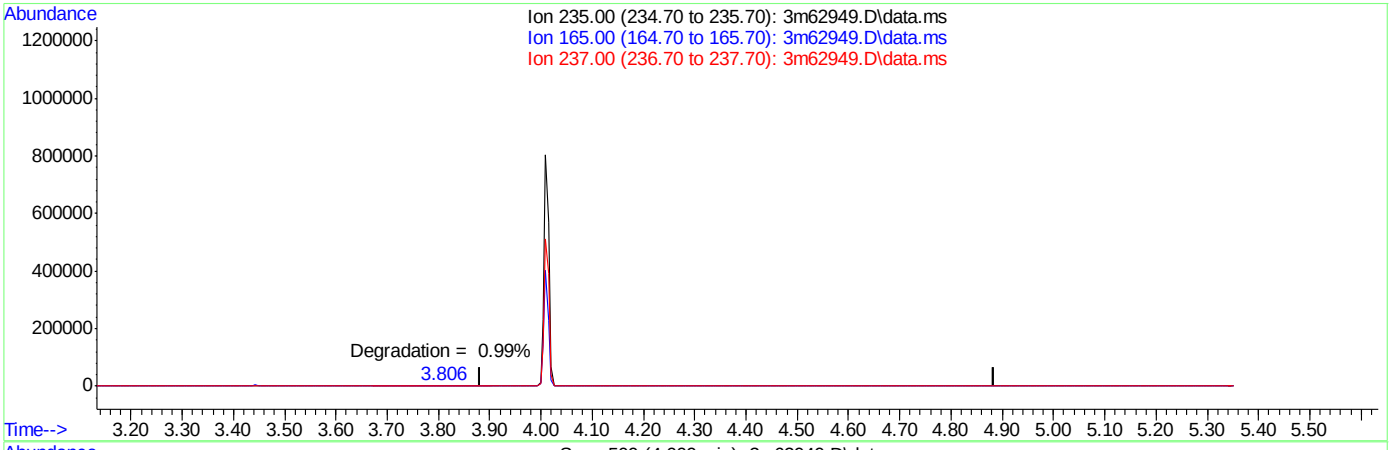
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

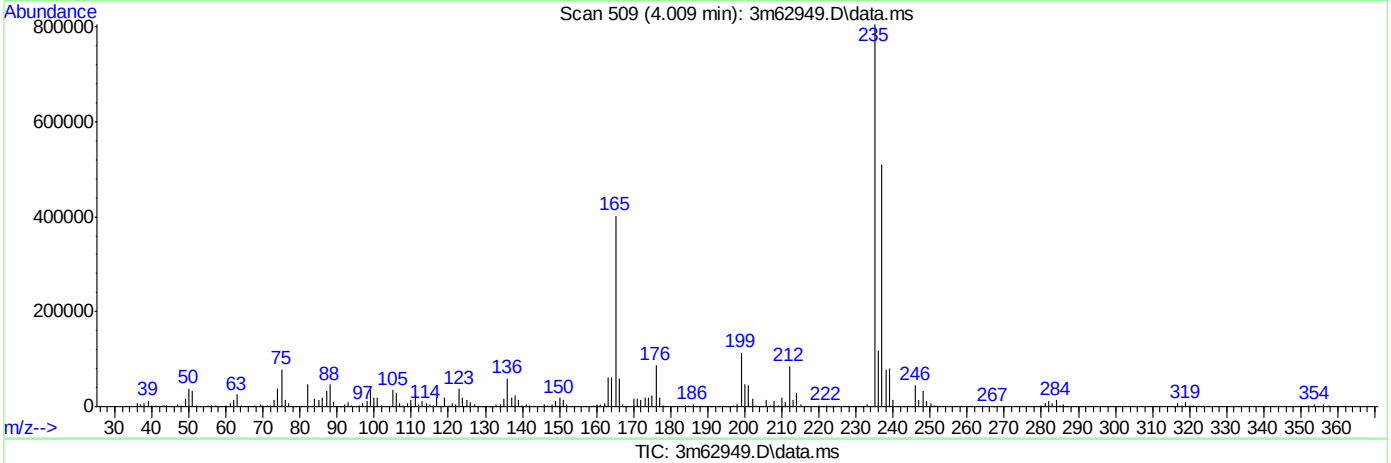
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62949.D
Acq On : 14 Jul 2016 9:30 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2975
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 15 17:09:34 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: 3m62949.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

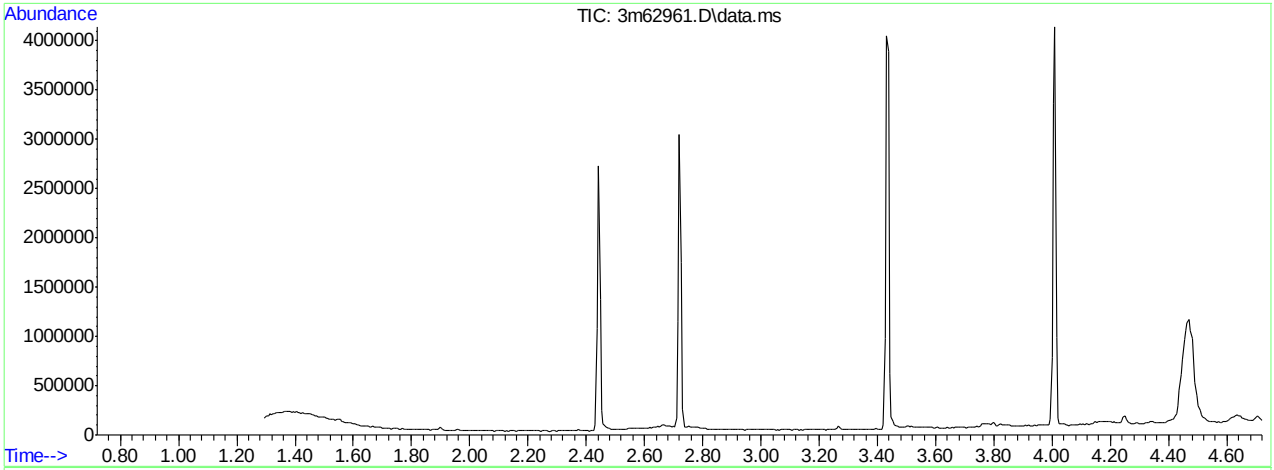
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

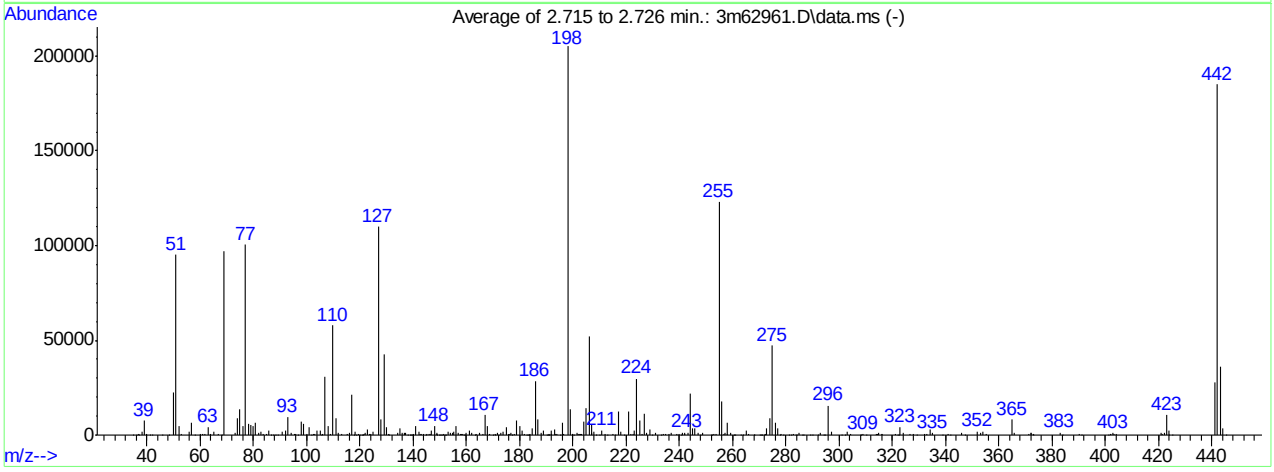
SGS ACCUTEST JC24816

DFTPP

Data File : C:\msdchem\1\DATA\E3M2976\3m62961.D Vial: 1
Acq On : 14 Jul 2016 5:04 pm Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m2976 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 267, 268, 269; Background Corrected with Scan 260

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.3	95013	PASS
68	69	0.00	2	0.0	3	PASS
69	198	0.00	100	47.2	96831	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	53.6	109997	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	205083	PASS
199	198	5	9	6.7	13647	PASS
275	198	10	30	23.0	47211	PASS
365	198	1	100	4.0	8163	PASS
441	443	0.10	100	76.4	27820	PASS
442	198	40	100	90.2	184928	PASS
443	442	17	23	19.7	36390	PASS

3m62961.D DFTPP3M.M Fri Jul 15 17:11:59 2016 RPT1

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	206	49.95	22678	64.05	453	78.95	5589
36.10	298	50.95	95013	65.00	1993	79.95	4550
37.00	428	52.10	4813	67.10	327	80.95	6353
37.20	148	53.00	507	67.95	3	82.00	1380
38.10	1685	55.95	1815	69.00	96831	83.00	1613
39.00	7669	57.00	6400	73.10	1282	83.90	463
39.95	717	58.10	273	74.00	9040	84.95	740
41.05	74	59.95	617	75.00	13380	85.95	2197
42.05	205	60.95	826	76.05	4738	86.70	232
45.90	180	61.95	856	77.05	100557	87.70	224
48.20	193	63.00	4206	78.10	6042	88.20	124

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.05	191	101.00	4158	110.00	57869	119.80	236
90.95	1632	101.90	194	111.00	8844	120.60	102
92.05	2127	102.75	878	112.00	1180	121.10	313
93.00	9779	103.10	619	113.00	726	121.80	396
94.05	921	103.90	2465	115.10	560	122.00	1264
95.70	387	105.00	2436	115.95	1365	122.95	2870
96.00	407	105.70	217	116.95	21115	123.80	668
96.95	293	106.00	500	117.80	304	124.05	905
97.95	7299	106.95	30629	118.05	1680	125.05	1848
99.00	5764	108.00	4565	118.85	135	127.00	109997
100.05	456	108.80	341	119.30	333	128.00	8341

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.00	42463	139.20	145	146.25	627	152.10	157
130.00	3978	139.75	291	147.00	2460	152.30	153
130.80	38	140.00	361	147.95	4941	153.00	1837
131.00	591	141.00	4866	148.80	249	154.00	1369
134.05	972	142.05	1828	148.90	327	154.85	1305
134.95	3433	142.80	562	149.05	1039	155.10	1952
136.00	1483	143.00	675	149.90	207	156.00	4923
136.80	993	144.05	541	150.10	139	157.00	1057
137.05	949	144.60	94	150.80	221	157.60	696
138.10	244	145.10	681	151.05	172	158.05	471
139.00	117	146.00	499	151.55	492	158.85	668

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.10	275	167.95	4931	176.40	455	183.50	87
159.60	298	168.95	768	176.80	1256	184.00	796
159.90	1090	170.00	238	177.20	224	184.95	3523
161.00	2186	170.80	450	178.00	417	186.00	28453
161.95	973	171.00	163	179.00	7430	187.05	8201
163.10	113	171.80	1055	179.95	4715	188.05	932
163.85	621	172.10	258	181.00	2312	188.95	2233
164.80	940	173.00	1191	182.00	469	190.05	284
165.00	483	174.00	1859	182.60	207	190.60	87
166.05	711	175.00	4346	182.90	124	190.90	146
166.95	10404	175.95	901	183.30	89	191.10	731

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.70	588	200.10	590	207.10	5129	219.20	89
192.05	2179	200.40	205	207.95	1530	220.95	12345
193.00	2749	201.50	1376	208.90	214	221.90	636
193.75	348	202.10	351	210.10	293	222.80	689

194.10	437	202.50	325	210.90	2410	222.95	2670
195.10	210	202.90	615	212.10	401	224.05	29870
196.05	6405	203.10	451	213.05	220	225.05	7434
196.60	488	204.05	7361	215.00	536	225.90	361
198.00	205083	205.05	14281	216.00	287	226.95	11462
198.90	13647	206.00	52144	217.00	12568	227.85	1339
199.85	581	206.90	1287	218.00	1972	228.95	2771

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
229.95	319	241.90	656	253.10	501	263.20	129
230.85	1074	242.15	1214	253.85	558	263.85	281
232.95	272	243.05	1374	255.00	122883	264.95	2632
234.00	901	244.00	22042	256.00	17689	265.90	527
234.95	690	244.95	3293	256.80	334	267.90	134
236.00	456	245.95	3661	257.00	1048	268.20	91
236.95	957	246.95	991	257.80	880	270.10	184
239.05	323	248.00	136	258.00	6575	270.80	146
239.95	493	248.90	1009	259.15	936	271.00	176
240.70	221	252.00	302	260.50	86	271.80	87
241.05	986	252.20	198	261.10	212	272.10	469

Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
272.90	3650	283.70	82	296.00	15586	314.30	331
274.00	8716	284.10	136	296.95	1961	314.95	1425
275.00	47211	285.00	1188	300.90	154	315.90	628
276.00	6810	286.10	85	302.20	261	316.10	415
276.95	3529	286.70	98	302.95	1733	321.05	701
277.90	197	289.05	219	304.10	403	321.80	217
278.20	330	289.85	198	307.90	179	322.30	81
279.10	85	292.00	220	308.10	115	323.00	4319
281.30	90	292.95	1290	309.05	391	323.95	1226
281.85	185	294.00	222	310.00	152	326.75	765
282.95	765	294.70	174	313.95	676	328.00	547

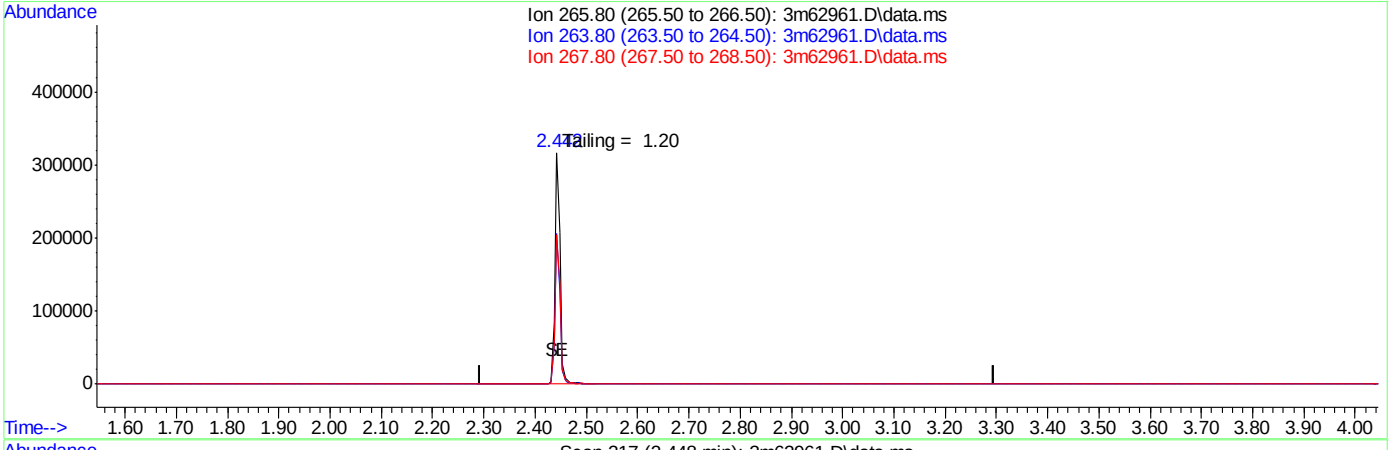
Average of 2.715 to 2.726 min.: 3m62961.D\data.ms
dftpp
Modified:subtracted

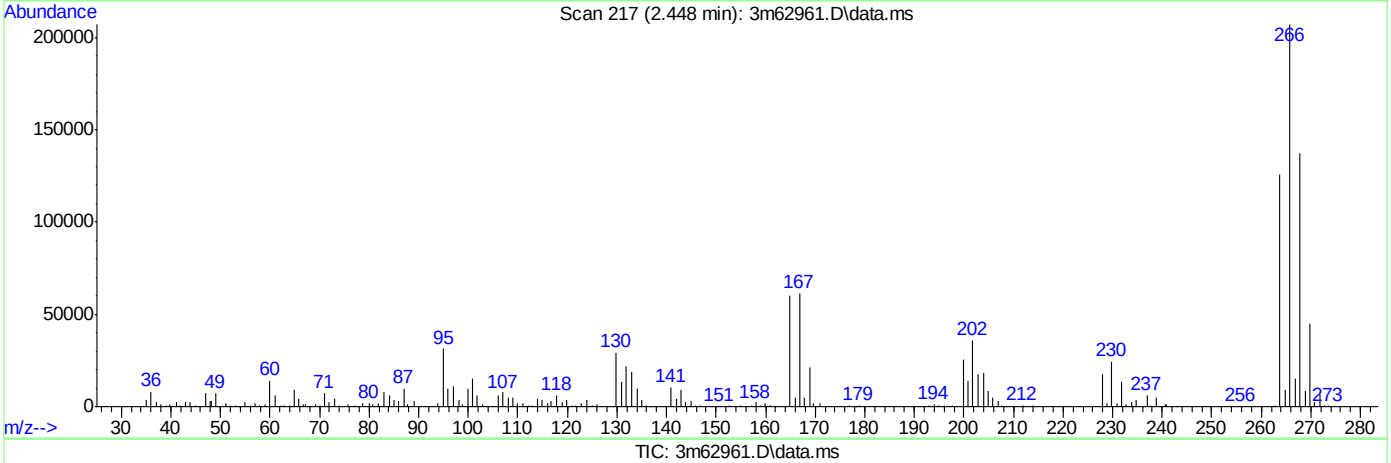
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
329.15	298	353.05	1455	384.00	285	422.00	1282
332.10	581	353.95	1766	390.10	380	423.05	10484
332.95	687	355.15	334	390.95	306	423.80	242
334.05	3119	365.00	8163	401.10	123	424.00	2139
335.05	1076	365.85	960	401.80	712	424.90	290
338.80	110	371.05	411	402.00	686	441.00	27820
340.95	763	371.90	1451	402.90	1115	442.00	184928
341.80	101	372.10	1194	403.10	900	443.00	36390
345.95	1427	372.70	275	403.95	776	444.05	3829
347.00	260	373.05	716	420.90	1344	445.10	83
351.95	1812	382.95	1299	421.30	417		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62961.D
Acq On : 14 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2976
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 17:08:27 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: 3m62961.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

response 0

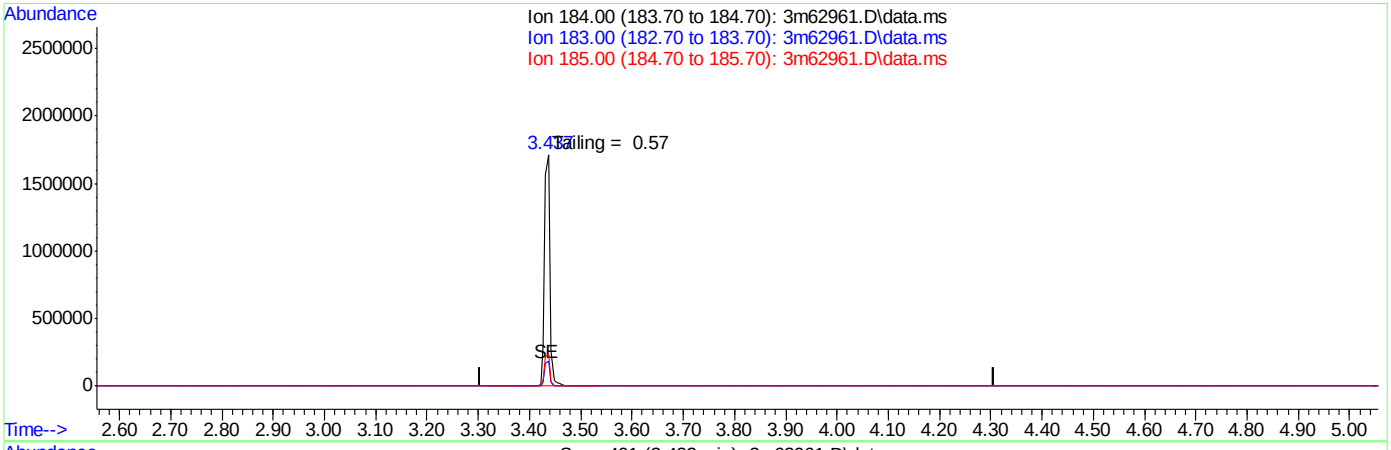
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

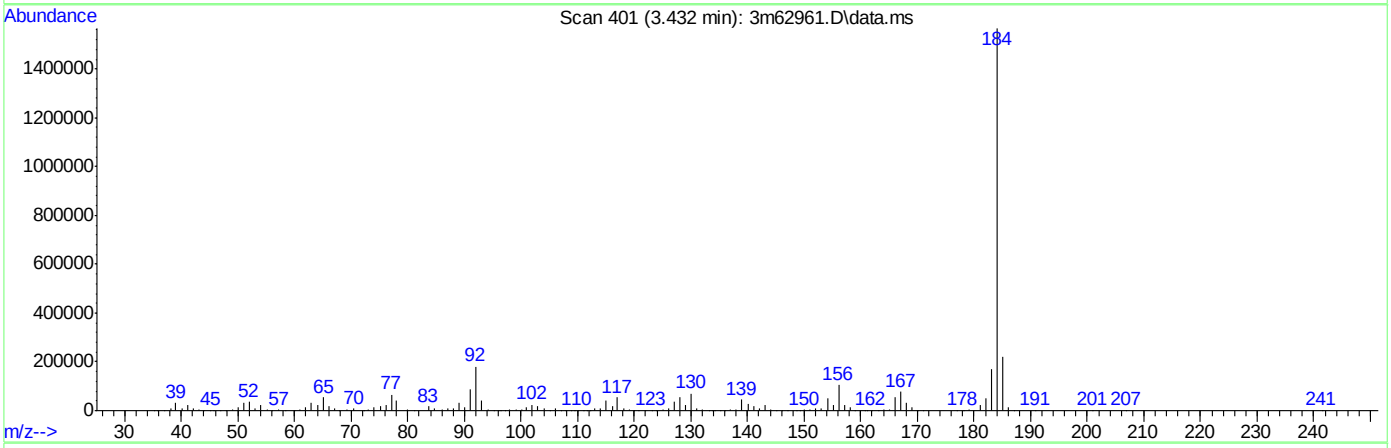
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62961.D
Acq On : 14 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2976
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 17:08:27 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: 3m62961.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

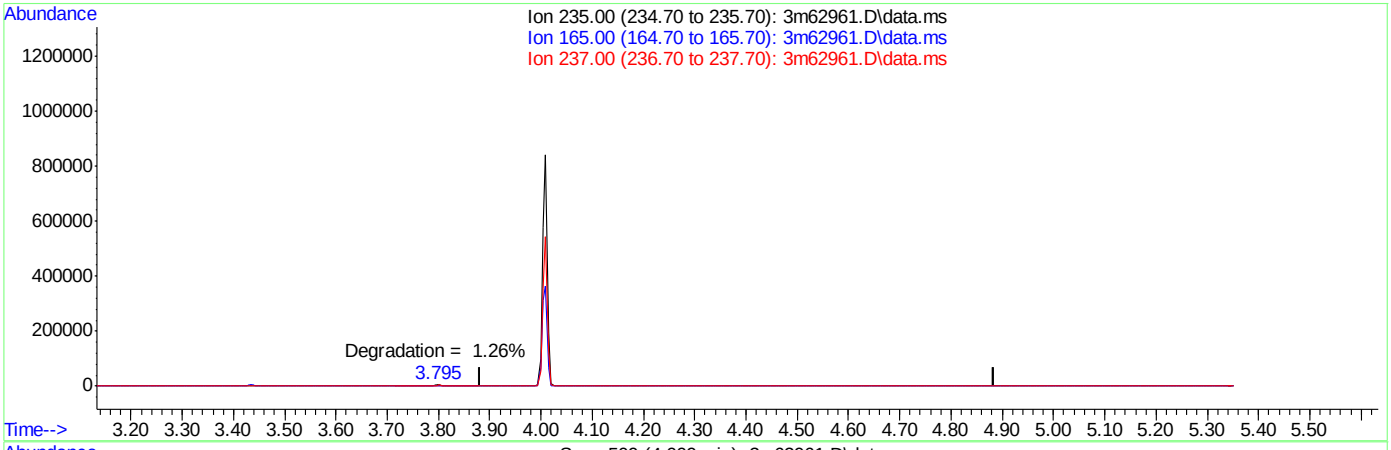
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

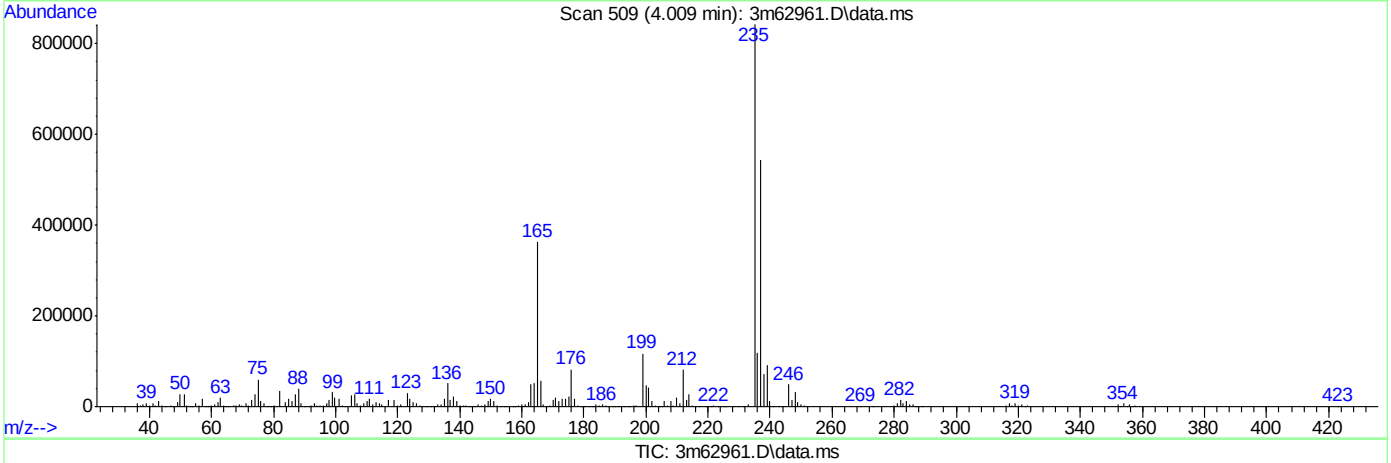
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62961.D
Acq On : 14 Jul 2016 5:04 pm
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2976
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 17:08:27 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: 3m62961.D\data.ms

(3) PP-DDT (t)

4.384min 0.00ppb d

response 0

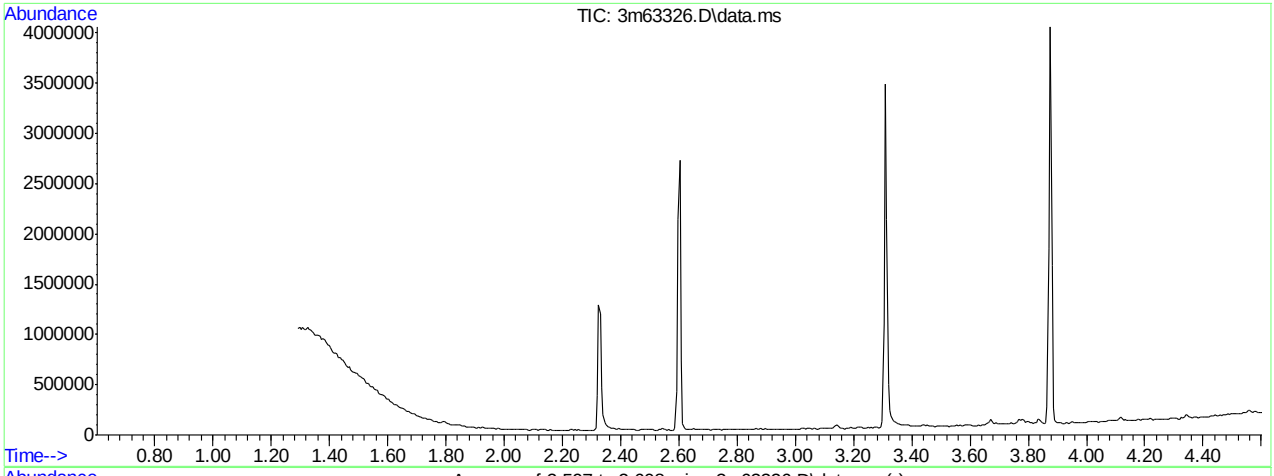
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

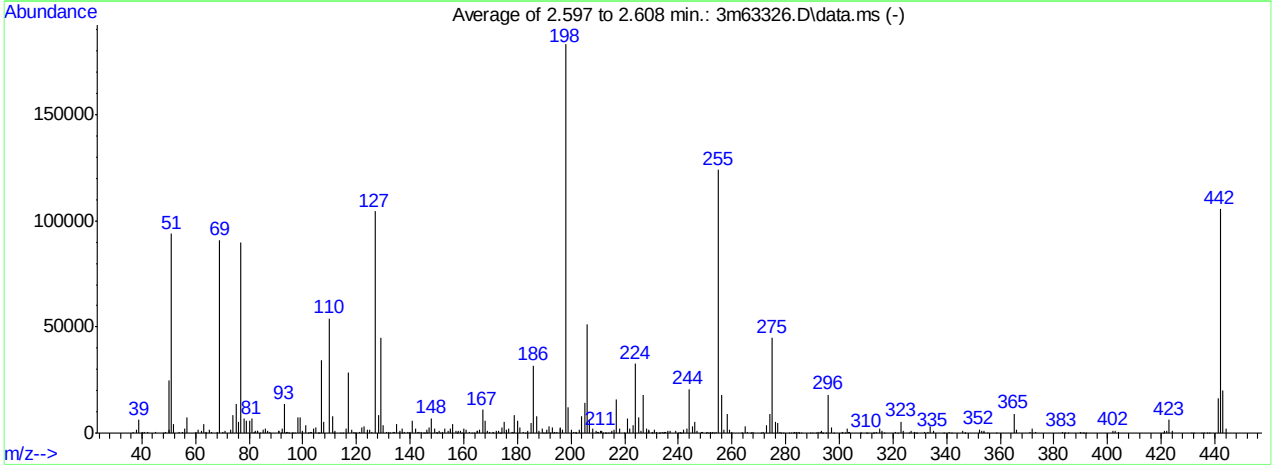
SGS ACCUTEST JC24816

DFTPP

Data File : C:\msdchem\1\DATA\E3M3000\3m63326.D Vial: 1
Acq On : 29 Jul 2016 8:34 am Operator: shaniceg
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m3000 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 245, 246, 247; Background Corrected with Scan 240

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.3	93903	PASS
68	69	0.00	2	0.6	582	PASS
69	198	0.00	100	49.7	91071	PASS
70	69	0.00	2	0.4	331	PASS
127	198	40	60	57.1	104544	PASS
197	198	0.00	1	1.0	1784	PASS
198	198	100	100	100.0	183171	PASS
199	198	5	9	6.7	12356	PASS
275	198	10	30	24.5	44907	PASS
365	198	1	100	5.0	9222	PASS
441	443	0.10	100	79.9	16139	PASS
442	198	40	100	57.7	105677	PASS
443	442	17	23	19.1	20203	PASS

3m63326.D DFTPP3M.M Fri Jul 29 15:12:45 2016 RPT1

Average of 2.597 to 2.608 min.: 3m63326.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.90	729	50.20	1685	63.70	109	76.10	5297
38.05	1778	51.00	93903	63.95	557	76.95	89767
39.00	6321	51.95	4326	65.00	1756	78.05	6847
39.95	56	53.75	394	65.85	340	78.95	5993
40.20	408	55.00	464	67.95	582	80.00	5700
41.05	804	56.00	2336	69.00	91071	81.00	6713
41.95	397	56.95	7327	70.05	331	81.90	676
44.90	337	60.00	400	71.00	1101	82.10	903
48.00	83	60.95	1481	73.00	1464	82.90	1163
48.95	505	62.05	1231	74.00	8285	83.10	847
50.00	25037	63.00	4003	74.95	13581	83.90	256

Average of 2.597 to 2.608 min.: 3m63326.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.00	1563	94.20	392	103.10	711	114.20	82
85.90	2165	94.60	214	104.05	2028	115.05	4
86.85	1115	95.90	244	104.95	2503	116.00	2299
87.85	368	96.10	17	105.80	213	117.00	28652
90.90	1291	97.00	218	106.10	258	118.05	1733
91.10	844	98.00	7623	107.00	34274	118.95	718
91.90	80	99.00	7246	107.95	5226	119.65	181
92.15	1913	99.90	903	110.00	54084	120.00	227
93.00	13628	100.95	3765	111.00	7716	121.10	388
93.70	127	101.90	210	111.70	191	121.95	2421
94.00	463	102.90	681	111.95	1086	123.00	3455

Average of 2.597 to 2.608 min.: 3m63326.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.05	1611	134.15	694	141.95	2000	149.80	203
124.95	1475	134.95	4200	142.80	724	150.00	336
125.80	370	135.70	126	143.10	641	151.00	1067
126.95	104544	136.05	1114	144.00	691	151.20	158
128.05	8587	136.80	214	144.80	157	152.05	593
129.00	44786	137.05	2298	145.20	183	152.95	1917
129.95	3870	137.85	480	146.00	1420	154.00	1191
131.05	660	138.90	325	146.20	177	154.90	1096
132.00	310	139.70	256	146.95	2622	155.05	1988
132.30	241	140.10	434	147.95	7011	156.00	4243
133.80	640	140.95	5615	148.95	2010	157.00	886

Average of 2.597 to 2.608 min.: 3m63326.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.30	130	166.05	1698	174.05	2569	183.90	1108
157.80	1039	166.95	11053	175.00	5065	184.90	4751
158.90	958	167.95	6004	176.05	1713	186.00	31916
159.30	81	168.95	817	176.85	2210	187.00	8158
159.95	2150	169.80	547	177.80	469	188.00	1042
160.95	1806	170.70	250	178.20	492	189.05	2093
162.00	800	171.05	428	178.95	8306	189.60	218
162.90	82	171.95	960	180.00	5895	190.30	79
163.70	188	172.95	1328	180.95	2694	190.95	1662
164.80	915	173.20	202	182.00	445	191.95	3079
164.90	1032	173.80	189	183.05	247	192.20	251

Average of 2.597 to 2.608 min.: 3m63326.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
193.00	2598	201.60	556	210.90	910	219.90	208
193.60	107	201.90	107	211.20	1123	220.95	6831
194.00	802	202.95	1754	211.80	255	221.85	2128
194.80	406	204.00	8204	212.80	134	222.95	3974

195.90	2842	205.00	14366	213.00	99	224.00	32611
196.10	2231	206.00	51509	213.90	114	225.00	7472
196.95	1784	207.00	6297	214.60	228	225.95	999
197.90	183171	207.95	1972	214.95	831	227.00	17978
198.95	12356	209.20	906	216.10	1789	227.90	1938
200.00	1866	209.90	485	216.90	16015	228.10	307
201.10	656	210.30	546	217.95	2069	228.80	1174

Average of 2.597 to 2.608 min.: 3m63326.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
229.00	1832	235.95	917	245.15	3435	253.30	146
230.00	319	237.05	1324	245.95	5225	253.85	593
230.30	230	238.90	832	246.85	955	255.00	124021
230.95	1429	239.95	273	248.70	347	255.90	18086
232.00	350	240.50	104	248.95	611	256.95	1751
232.70	263	240.80	453	250.20	80	258.00	8894
233.00	116	241.10	275	250.85	315	258.95	1587
233.85	624	241.80	658	251.10	112	260.00	415
234.20	150	241.95	1754	251.85	423	263.60	107
234.90	382	243.00	1957	252.20	122	263.80	94
235.05	752	244.00	20843	252.90	797	265.00	3043

Average of 2.597 to 2.608 min.: 3m63326.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
265.90	537	277.85	620	285.90	126	297.05	2636
266.90	89	278.20	122	289.00	141	297.90	217
267.10	90	278.90	266	289.90	241	301.00	155
267.80	414	281.10	91	291.10	147	301.20	378
270.90	228	281.90	76	291.90	329	301.90	235
271.75	351	282.70	108	292.75	589	302.95	1895
273.00	3711	283.10	472	293.10	851	303.20	311
274.00	9225	283.70	144	293.70	89	303.95	659
275.00	44907	284.00	314	293.90	95	307.80	137
276.00	5147	284.75	255	294.90	230	308.00	134
277.00	4997	285.15	537	296.00	18107	310.20	179

Average of 2.597 to 2.608 min.: 3m63326.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
310.60	75	325.80	78	341.90	85	366.00	1496
312.70	145	326.90	1245	346.00	1229	371.05	468
313.10	80	327.90	688	346.80	76	372.00	2306
313.90	794	328.20	144	347.00	176	373.00	634
315.00	2169	328.90	196	352.05	1714	382.95	704
316.00	1047	331.95	706	353.00	983	383.90	89
316.80	111	332.95	579	353.90	1189	384.10	279
321.00	406	334.00	3328	354.10	347	385.10	79
321.90	113	335.00	876	354.95	244	389.70	146
323.05	5336	338.70	80	358.60	79	389.95	297
324.00	1105	341.00	652	365.00	9222	390.70	96

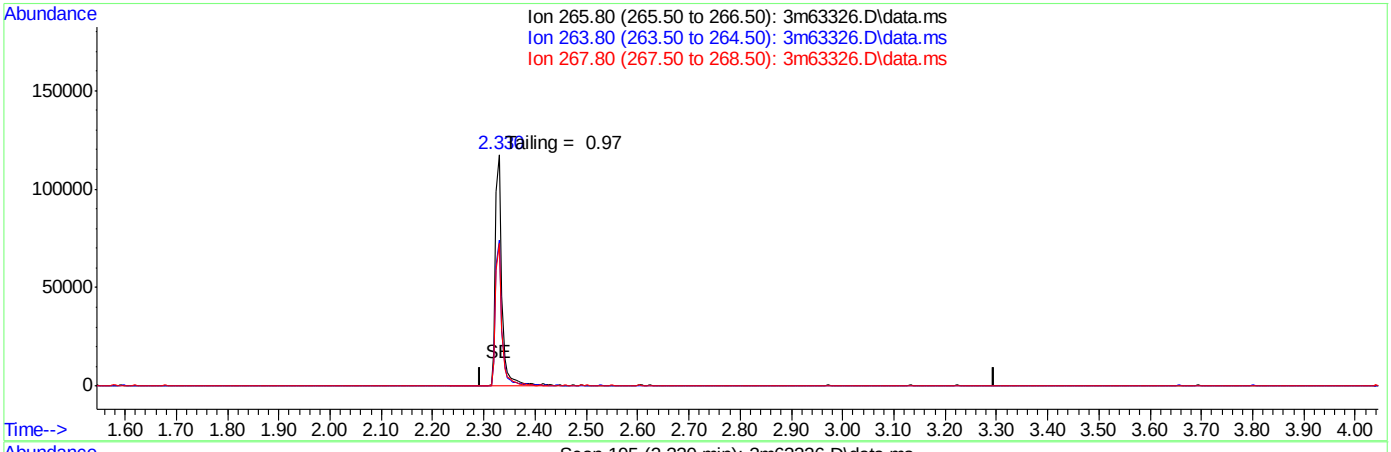
Average of 2.597 to 2.608 min.: 3m63326.D\data.ms
dftpp
Modified:subtracted

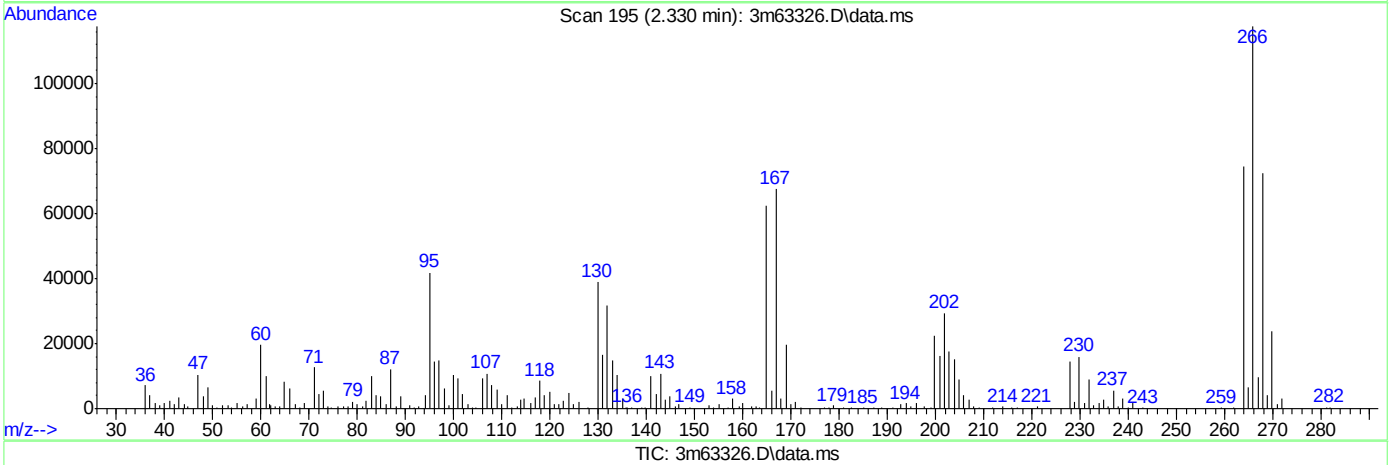
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
391.00	142	431.90	80				
391.90	74	434.80	120				
402.05	1253	435.90	136				
402.90	1088	436.90	126				
403.90	391	438.10	279				
420.70	225	441.10	16139				
421.00	1224	442.00	105677				
422.00	1107	443.00	20203				
423.00	6108	444.00	1943				
424.00	1307						
431.10	97						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63326.D
Acq On : 29 Jul 2016 8:34 am
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3000
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 29 08:38:14 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: 3m63326.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

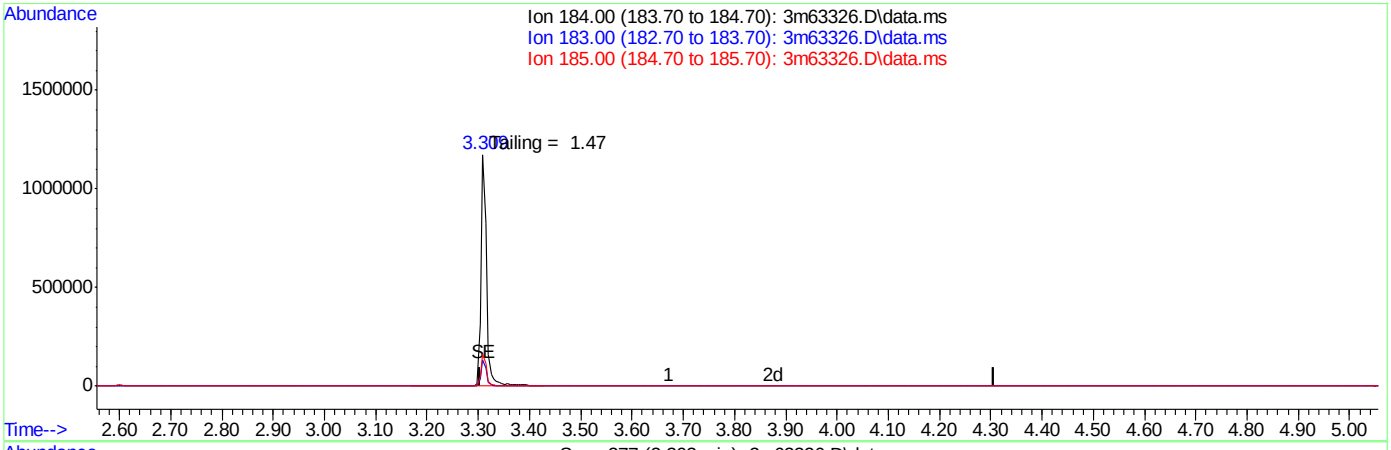
response 0

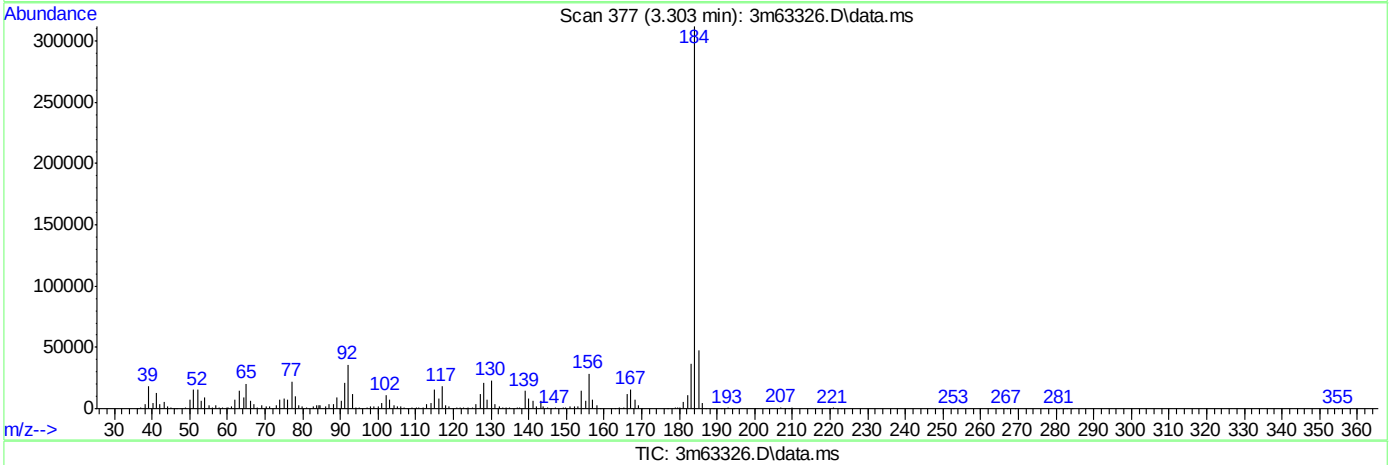
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63326.D
Acq On : 29 Jul 2016 8:34 am
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3000
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 29 08:38:14 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: 3m63326.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

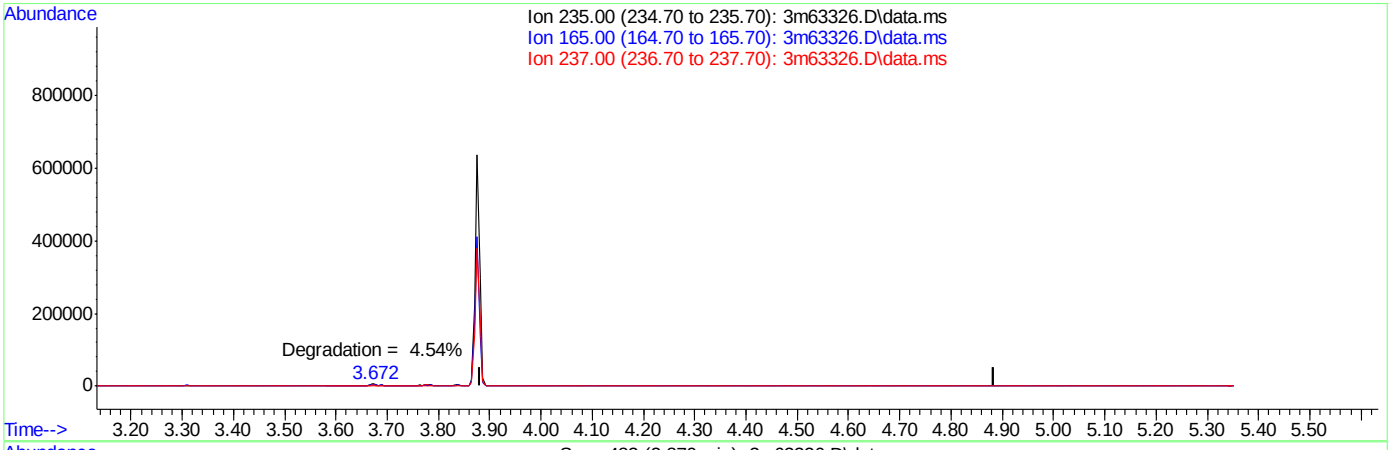
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

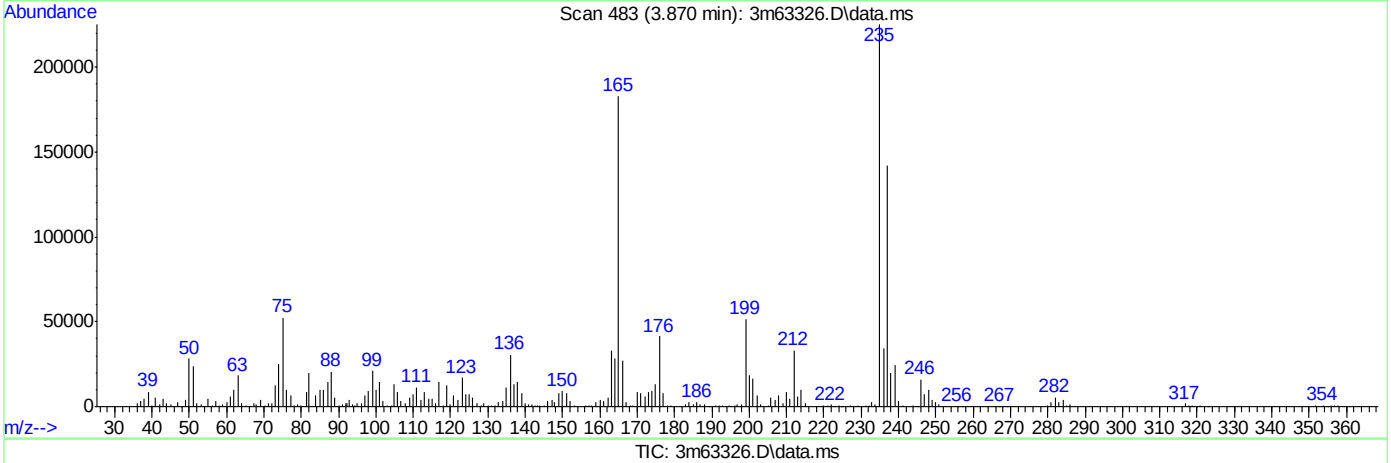
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63326.D
Acq On : 29 Jul 2016 8:34 am
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3000
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 29 08:38:14 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: 3m63326.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

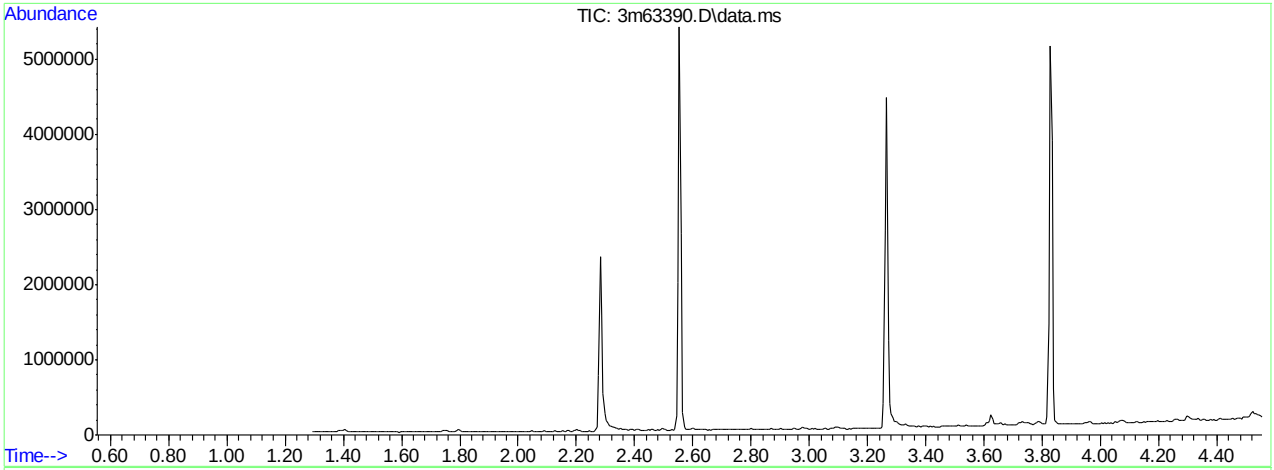
response 0

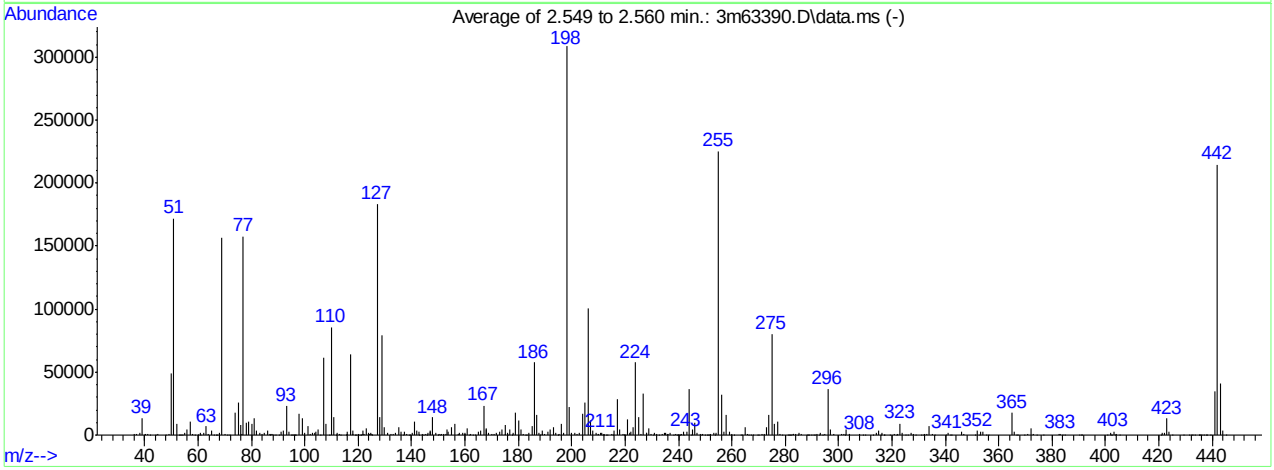
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\DATA\E3M3004\3m63390.D Vial: 1
Acq On : 2 Aug 2016 10:56 am Operator: SHANICEG
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m3004 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 236, 237, 238; Background Corrected with Scan 231

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	55.8	172058	PASS
68	69	0.00	2	1.0	1530	PASS
69	198	0.00	100	50.9	157016	PASS
70	69	0.00	2	0.8	1233	PASS
127	198	40	60	59.6	183775	PASS
197	198	0.00	1	0.7	2113	PASS
198	198	100	100	100.0	308459	PASS
199	198	5	9	7.3	22647	PASS
275	198	10	30	26.1	80397	PASS
365	198	1	100	5.7	17502	PASS
441	443	0.10	100	86.0	35098	PASS
442	198	40	100	69.5	214451	PASS
443	442	17	23	19.0	40831	PASS

3m63390.D DFTPP3M.M Tue Aug 02 12:46:43 2016 RPT1

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.85	980	49.00	951	57.90	514	66.80	169
36.95	720	50.00	48980	58.90	242	67.10	335
38.10	2125	50.95	172058	59.80	245	68.00	1530
38.95	13799	52.00	8526	60.10	157	69.00	157016
39.90	424	52.95	193	60.70	351	70.05	1233
40.20	511	53.20	139	61.00	1428	70.95	256
41.00	1308	53.80	85	62.10	2164	71.80	213
41.85	442	54.00	167	63.00	6760	74.05	17822
44.00	136	55.05	1629	63.95	1054	75.00	25968
44.95	590	55.90	4638	65.05	3305	76.00	7739
47.85	199	57.00	10751	65.90	186	76.20	1224

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.95	157816	87.00	774	95.20	282	103.85	2184
78.05	10086	87.20	1005	95.80	100	104.10	2524
78.95	10761	87.85	780	96.10	108	104.95	4385
80.00	9051	88.05	27	96.30	195	105.90	333
81.00	13577	89.00	459	96.60	122	107.00	61683
82.00	3322	90.20	156	97.95	16525	107.90	9115
83.00	1894	91.00	2683	99.05	13463	109.00	412
83.90	1039	91.95	3213	100.05	1651	109.95	85669
84.95	1882	93.05	22801	100.95	7446	111.00	14549
85.95	3664	93.90	2543	102.05	538	111.70	385
86.80	190	94.85	143	103.00	1443	111.90	1376

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
112.90	731	120.10	133	125.20	463	136.70	410
113.30	208	120.80	318	127.00	183775	137.15	3109
115.30	128	121.10	227	128.00	13987	138.00	1207
115.70	595	121.70	653	129.00	79283	138.80	312
115.95	2572	121.95	3701	129.90	6615	139.25	328
117.00	63872	122.20	634	130.90	2143	140.05	1418
117.90	1075	122.95	5819	132.05	772	140.90	10663
118.05	3525	123.95	1851	133.05	986	142.10	3356
118.90	255	124.20	724	133.95	1965	142.70	451
119.35	399	124.85	1983	135.00	6223	142.95	2422
119.90	556	125.00	598	136.05	2405	144.10	669

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.50	111	151.05	1232	160.00	747	168.10	5182
145.10	1130	151.80	953	160.15	2105	169.00	2014
145.70	372	152.80	858	161.00	5079	170.15	570
146.20	1697	153.05	4452	161.70	327	170.95	1074
146.90	3518	153.85	2702	162.05	1137	171.85	2070
147.15	2697	155.00	6270	162.95	468	172.90	3124
147.95	14238	156.00	8997	163.90	199	174.00	4818
149.00	2140	157.30	1328	165.00	3068	175.00	8057
149.80	155	158.00	1436	166.05	3846	175.20	1282
150.15	748	159.00	1761	166.95	23400	175.90	364
150.70	141	159.90	658	167.90	4780	176.05	1450

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.95	4176	186.00	57731	194.90	107	205.00	26271
177.60	344	187.00	16254	195.15	686	206.00	100496
178.05	1664	187.90	1454	196.00	9196	207.00	11953
179.00	17715	188.30	335	196.95	2113	208.00	3720

180.05	11685	188.80	589	198.00	308459	209.00	1680
180.95	4891	189.05	3324	198.90	22647	209.90	1148
181.95	677	189.95	1006	199.90	2042	210.10	831
182.60	177	191.00	2599	201.30	1475	210.90	1823
183.05	175	191.95	4795	201.80	562	211.10	2123
184.00	1884	193.00	6122	202.90	2049	211.60	269
185.05	7384	194.00	1514	204.00	16986	211.90	507

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
212.15	416	220.00	253	229.00	5604	236.10	506
212.80	202	221.00	12545	229.90	953	236.95	1793
213.20	199	221.80	1422	230.40	85	238.05	178
214.95	540	222.10	3000	230.90	2097	238.90	934
215.30	447	223.05	5884	232.00	510	239.40	104
215.95	3518	224.00	57627	232.80	449	239.70	268
217.00	28632	225.00	14676	233.85	1213	239.95	345
217.95	4184	225.90	1315	234.85	1668	240.30	144
219.05	680	226.95	32685	235.05	1591	240.80	324
219.60	118	227.85	1670	235.50	222	241.15	1338
219.80	228	228.10	2166	235.90	716	241.80	310

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
242.05	2833	250.60	296	259.05	2978	270.00	395
243.00	3129	251.10	349	259.85	528	271.20	539
244.00	36427	251.75	446	260.80	99	272.10	1102
244.80	450	252.15	760	263.30	472	272.95	6125
245.05	4327	253.10	1623	263.75	384	274.00	15821
246.00	10007	253.60	379	265.00	6629	275.00	80397
246.95	1884	254.00	1616	265.85	707	276.00	9304
248.05	604	255.00	225208	266.20	369	277.05	10733
248.80	306	256.00	32150	267.00	122	277.85	1160
249.05	967	256.95	2909	268.00	168	279.00	357
249.95	372	258.00	15946	269.50	256	281.00	248

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
281.20	88	288.70	112	296.95	4608	313.00	423
281.70	170	289.10	456	298.05	729	314.10	1417
282.05	308	289.80	156	300.95	798	315.00	3896
282.85	645	290.80	110	301.80	802	315.90	359
283.00	710	291.10	157	302.40	121	316.05	1576
283.20	536	292.05	657	302.95	4248	316.90	189
284.05	980	292.80	400	303.90	697	317.15	247
284.80	214	293.00	2156	304.10	569	319.20	206
285.05	1379	293.95	358	307.95	499	321.00	1196
286.05	588	294.85	947	309.20	122	321.60	126
287.90	137	296.00	36833	310.05	358	322.15	858

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
323.00	9188	334.05	6780	352.70	82	372.05	5405
323.95	1601	334.95	1069	353.00	2582	373.00	1034
324.90	167	336.10	85	354.05	2549	374.05	191
326.00	162	340.00	160	355.10	415	376.80	113
326.95	1943	341.00	1378	356.05	147	382.70	589
328.05	1163	341.80	95	365.00	17502	383.05	951
328.90	102	342.30	92	366.00	2677	384.05	418
330.90	111	345.95	2848	366.80	94	384.90	115
331.80	139	347.05	667	367.25	299	390.10	242
332.10	608	351.10	142	369.70	84	390.80	264
333.00	1116	352.00	3562	370.90	836	391.10	239

Average of 2.549 to 2.560 min.: 3m63390.D\data.ms

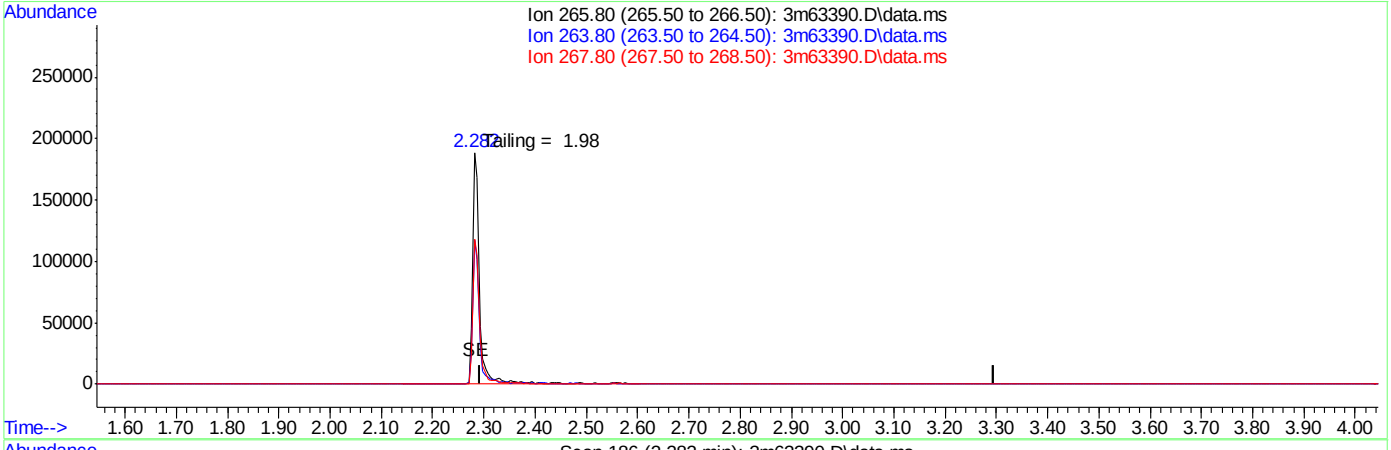
dftpp
Modified:subtracted

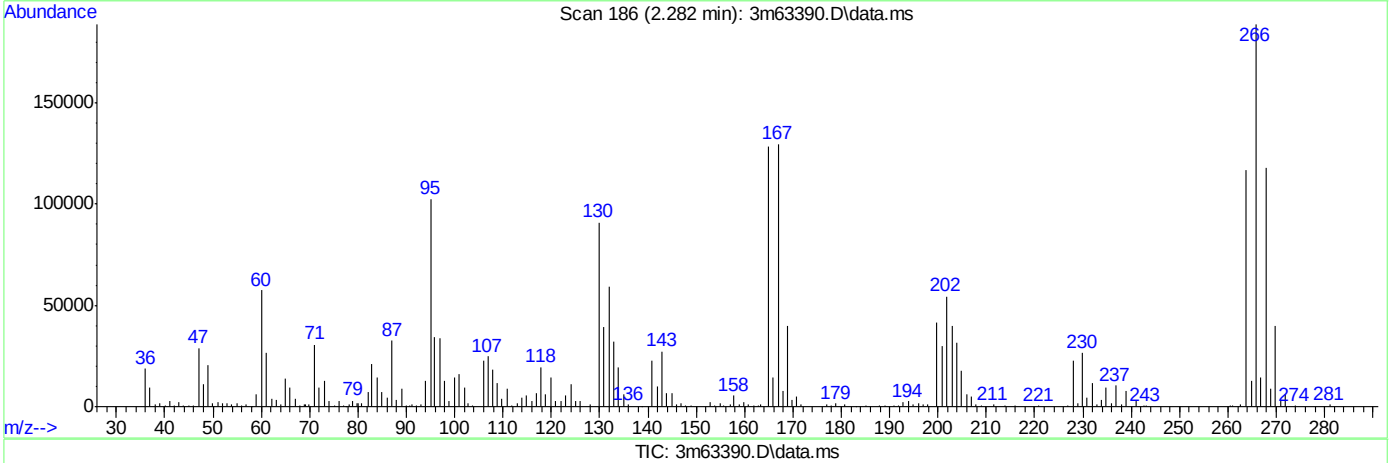
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
400.85	365	423.05	13179	436.15	394		
401.80	122	423.90	2607	436.90	231		
402.05	1903	425.00	392	437.45	428		
402.40	86	429.30	400	438.10	144		
403.00	2930	431.50	359	439.50	95		
403.70	150	432.30	81	441.05	35098		
403.95	771	432.60	113	442.00	214451		
405.20	170	433.40	314	443.00	40831		
420.80	112	435.00	242	444.00	3683		
421.10	2183	435.20	147	445.00	152		
422.05	2244	435.60	449				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63390.D
Acq On : 2 Aug 2016 10:56 am
Operator : SHANICEG
Sample : dftpp
Misc : op95160a,e3m3004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 11:01:00 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: 3m63390.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

response 0

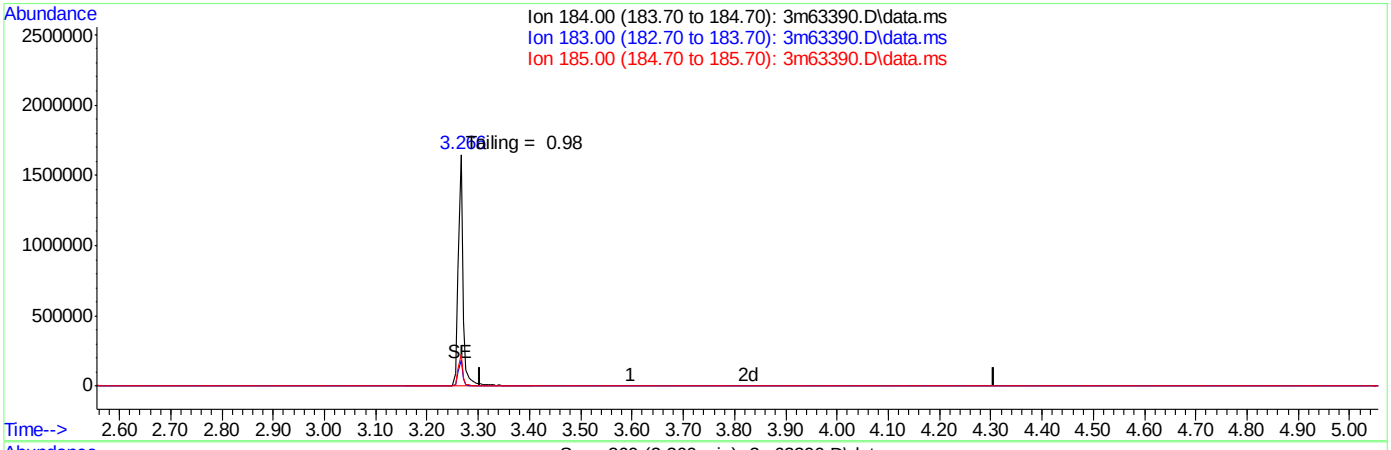
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

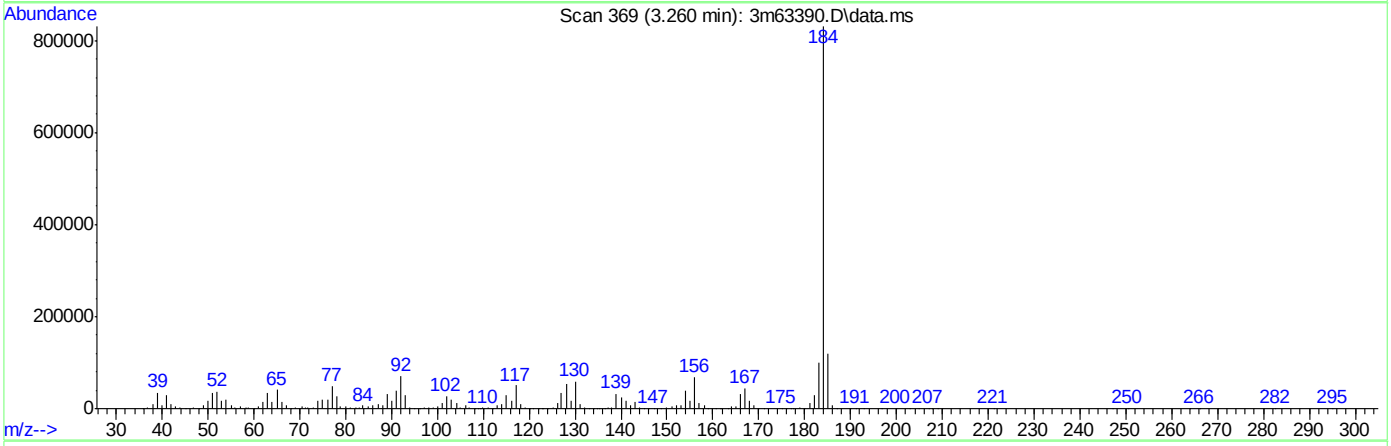
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63390.D
Acq On : 2 Aug 2016 10:56 am
Operator : SHANICEG
Sample : dftpp
Misc : op95160a,e3m3004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 11:01:00 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: 3m63390.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

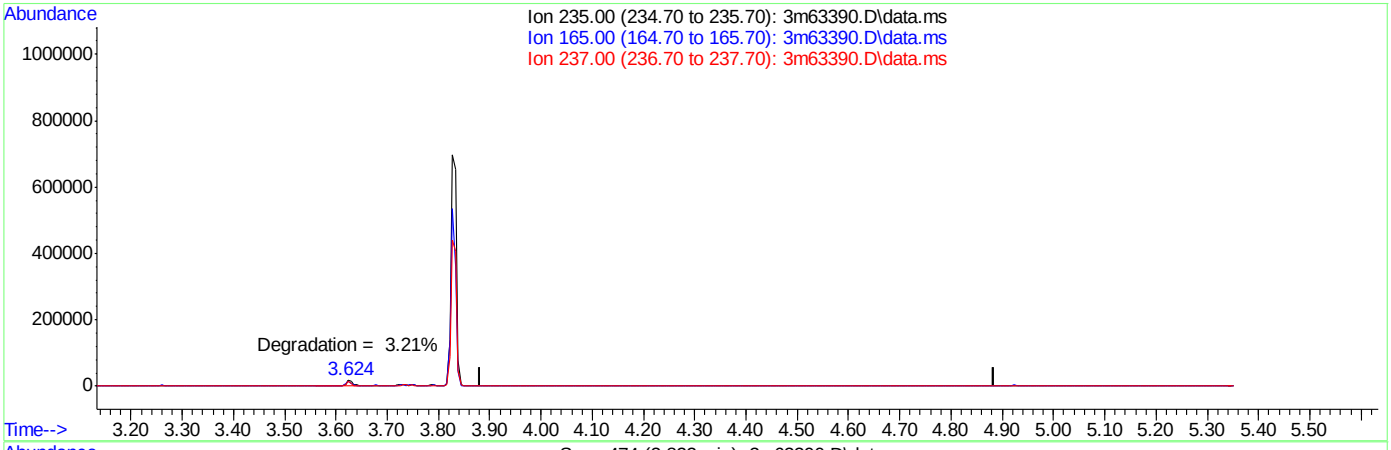
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

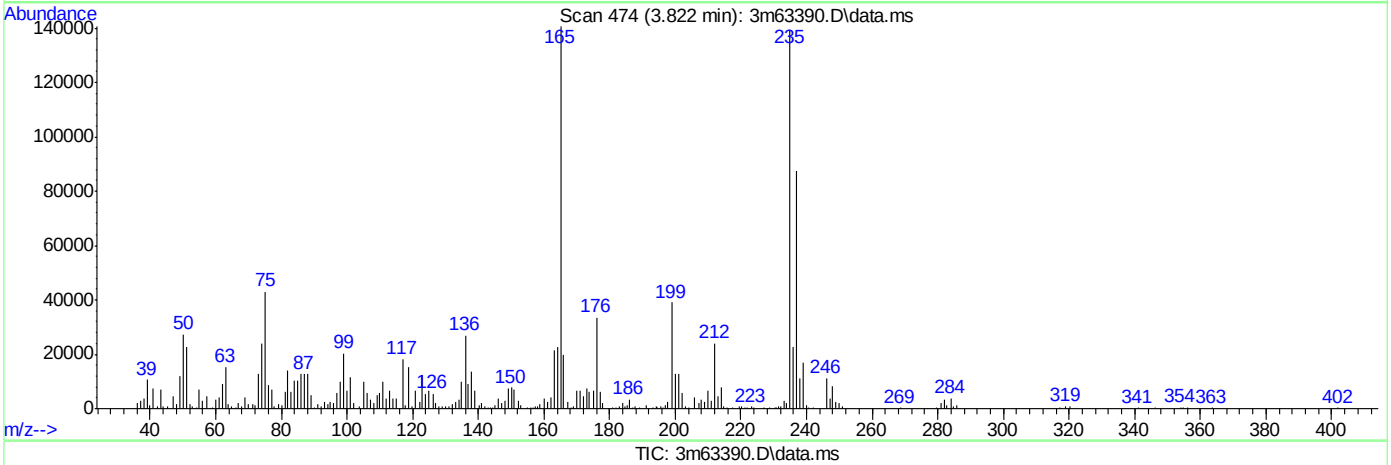
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63390.D
Acq On : 2 Aug 2016 10:56 am
Operator : SHANICEG
Sample : dftpp
Misc : op95160a,e3m3004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 11:01:00 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: 3m63390.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

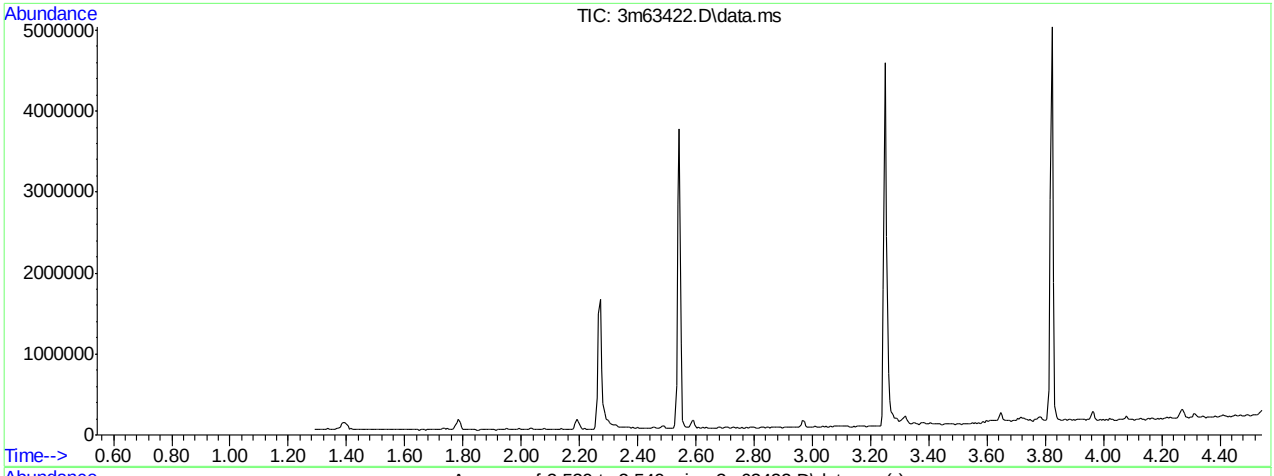
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

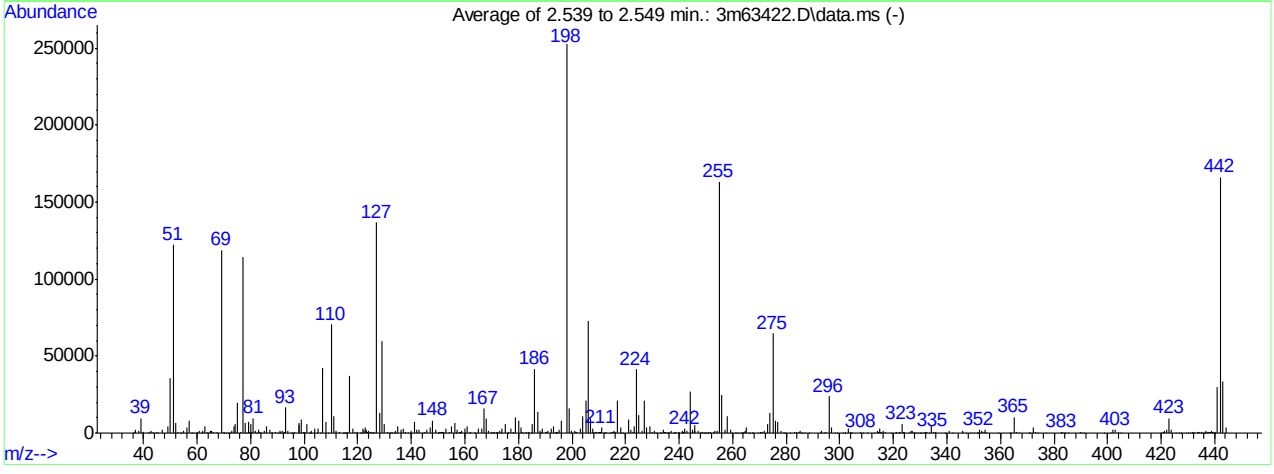
SGS ACCUTEST JC24816

DFTPP

Data File : C:\msdchem\1\DATA\E3M3006\3m63422.D Vial: 1
Acq On : 3 Aug 2016 10:56 am Operator: shaniceg
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m3006 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 234, 235, 236; Background Corrected with Scan 229

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	48.3	121988	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.1	118761	PASS
70	69	0.00	2	0.6	673	PASS
127	198	40	60	54.2	136731	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	252400	PASS
199	198	5	9	6.3	15999	PASS
275	198	10	30	25.6	64603	PASS
365	198	1	100	4.2	10585	PASS
441	443	0.10	100	89.1	30067	PASS
442	198	40	100	65.8	166061	PASS
443	442	17	23	20.3	33749	PASS

3m63422.D DFTPP3M.M Wed Aug 03 15:50:32 2016 RPT1

Average of 2.539 to 2.549 min.: 3m63422.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.30	410	49.00	4223	58.20	187	65.20	1459
37.05	1920	50.05	35612	59.50	86	66.05	431
38.05	1662	51.00	121988	59.90	121	67.40	646
39.00	9829	52.00	6435	60.10	383	69.00	118761
39.90	763	53.00	637	60.95	1520	69.80	243
41.95	862	53.70	109	61.70	281	70.05	673
42.85	1167	54.20	90	62.10	1788	70.65	260
43.75	535	55.05	1215	63.00	4649	71.50	120
45.00	480	56.00	3797	63.80	409	72.10	288
45.50	139	56.95	8108	64.00	355	73.00	1559
46.95	2446	58.00	181	65.00	1376	73.90	4704

Average of 2.539 to 2.549 min.: 3m63422.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
74.10	6181	81.90	1782	90.90	1512	98.10	4827
75.00	19909	82.20	175	91.10	261	99.05	8404
76.20	605	82.95	2269	91.80	1367	99.80	590
77.00	114523	83.20	568	92.20	353	100.10	499
77.95	6509	83.95	126	92.70	697	100.90	5885
78.30	231	85.10	1274	93.00	16585	101.85	250
79.00	7594	85.95	4166	94.00	1169	102.40	190
79.70	553	87.05	2208	94.90	151	102.85	1741
80.00	5908	87.85	583	95.60	185	104.00	2847
80.30	630	89.05	444	96.20	801	104.80	98
80.95	9676	90.00	184	97.90	6495	105.05	2982

Average of 2.539 to 2.549 min.: 3m63422.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.80	268	115.50	376	123.05	1862	129.90	5504
107.00	42292	116.00	694	123.70	450	131.05	873
108.00	7089	117.00	36848	123.90	279	132.00	334
108.95	9	117.95	3117	124.15	1562	132.20	857
110.00	70387	119.05	715	124.90	629	132.80	354
110.95	10927	120.00	837	125.10	1074	133.70	151
111.90	1432	120.90	23	125.60	365	134.00	1629
113.05	736	121.20	335	126.00	504	134.20	209
114.30	91	121.75	2645	127.00	136731	135.05	4566
114.70	379	122.20	1379	128.05	13161	136.00	2518
115.10	182	122.85	3728	129.00	59638	137.00	2984

Average of 2.539 to 2.549 min.: 3m63422.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.90	700	147.90	8397	156.05	6347	165.00	2820
138.75	268	148.95	2386	156.70	127	166.10	2608
139.30	220	149.80	89	157.05	1986	167.05	15912
139.90	1488	150.20	739	158.00	844	168.05	9780
140.95	7365	150.75	711	158.20	905	168.85	1351
142.00	1976	151.15	767	158.90	1245	169.70	373
143.00	2525	151.75	807	160.05	3090	170.00	638
143.90	362	152.10	1012	160.95	4578	170.50	248
144.80	567	152.90	2866	161.50	248	171.00	1098
145.95	1973	154.05	1000	162.10	1046	171.80	736
146.90	3380	155.00	4316	163.95	632	172.10	432

Average of 2.539 to 2.549 min.: 3m63422.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
172.25	308	180.05	7963	187.05	13861	194.30	156
173.00	1580	180.95	3348	188.05	1229	194.50	516
173.20	287	181.20	741	188.30	350	195.10	1857
174.00	2988	181.90	315	188.95	2956	196.00	8174

174.95	5878	182.40	224	190.25	751	197.90	252400
175.90	349	183.15	476	190.50	540	198.90	15999
176.15	1063	183.80	501	191.10	1266	199.70	307
177.05	2700	184.00	704	192.05	3194	199.95	1251
177.90	934	184.80	358	192.95	4393	201.15	1368
178.10	26	185.10	5569	193.80	354	201.50	697
179.00	10538	186.00	41740	193.95	727	201.85	732

Average of 2.539 to 2.549 min.: 3m63422.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
203.00	3029	210.70	1071	218.00	3388	228.00	3778
204.05	11275	211.00	3454	218.30	389	229.00	4750
205.10	21002	211.70	161	219.00	326	229.85	738
206.00	72912	212.20	641	221.00	8514	230.90	1629
207.00	9253	212.80	89	221.90	2148	231.30	177
207.90	2842	213.90	170	222.80	611	231.70	74
208.10	596	214.65	902	223.10	4767	232.90	342
208.80	589	215.15	936	224.05	41296	233.20	280
209.10	565	215.80	1289	225.00	11836	233.95	1969
209.90	918	216.10	828	225.95	1178	234.60	511
210.20	505	217.00	21209	227.00	21223	234.85	611

Average of 2.539 to 2.549 min.: 3m63422.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
235.20	235	241.80	718	248.90	523	256.00	24614
235.90	332	242.10	2593	249.25	382	256.95	2089
236.20	719	243.05	1356	249.70	129	257.95	11077
236.90	1566	244.05	26992	250.10	321	259.00	1908
237.80	240	245.00	1639	250.70	500	259.80	151
238.15	315	245.15	2233	250.95	293	260.90	350
238.90	1116	245.80	1761	251.70	1038	261.40	87
239.70	281	245.95	5447	252.85	1095	262.30	150
239.90	669	247.00	1543	253.40	1319	262.95	192
241.10	1395	247.80	350	254.10	1181	263.60	97
241.30	218	248.00	167	255.00	163045	263.90	166

Average of 2.539 to 2.549 min.: 3m63422.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
264.10	493	271.85	1161	283.05	751	293.75	342
264.80	1234	272.90	6172	283.90	659	294.90	805
265.00	3441	274.05	13176	284.80	509	296.00	23992
265.90	347	275.00	64603	285.10	1432	297.05	3765
266.30	199	275.95	8203	285.60	269	298.15	221
267.00	391	277.00	7300	286.10	106	299.00	152
267.60	138	277.90	1544	286.80	90	301.10	138
269.30	200	278.70	218	288.60	126	301.85	244
270.10	113	279.20	110	292.60	144	302.10	299
270.45	404	279.80	77	292.95	1414	303.05	3170
271.05	689	281.50	84	293.20	639	303.80	423

Average of 2.539 to 2.549 min.: 3m63422.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
304.00	207	315.50	568	324.20	633	332.20	541
304.25	237	315.95	1387	325.90	87	332.60	445
307.85	540	317.00	449	326.75	1581	333.10	172
308.75	210	319.10	356	327.10	1135	334.05	5461
310.10	220	320.90	152	328.00	994	334.85	864
312.90	181	321.15	808	328.30	88	335.10	685
313.95	1439	321.80	202	329.15	337	336.00	452
314.20	587	322.00	389	329.80	86	339.20	94
314.60	572	322.60	773	330.20	169	341.00	1222
314.95	2628	323.15	6014	331.10	155	342.00	261
315.20	356	323.85	509	331.80	279	345.70	516

Average of 2.539 to 2.549 min.: 3m63422.D\data.ms

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.00	1207	354.05	1941	372.15	3745	390.40	251
347.00	293	354.80	87	373.10	846	390.90	297
349.00	134	359.30	316	374.00	92	398.80	294
349.90	154	363.40	205	377.00	104	401.05	269
351.10	232	363.90	213	382.60	276	401.90	2065
351.40	137	364.95	10585	382.85	733	403.00	2160
351.70	206	365.85	1014	383.30	164	404.10	1063
352.05	2149	366.15	736	383.80	210	404.90	87
352.85	756	366.90	85	384.00	80	419.90	103
353.10	1318	370.50	155	385.20	87	420.80	516
353.90	859	371.10	340	389.75	566	421.05	1556

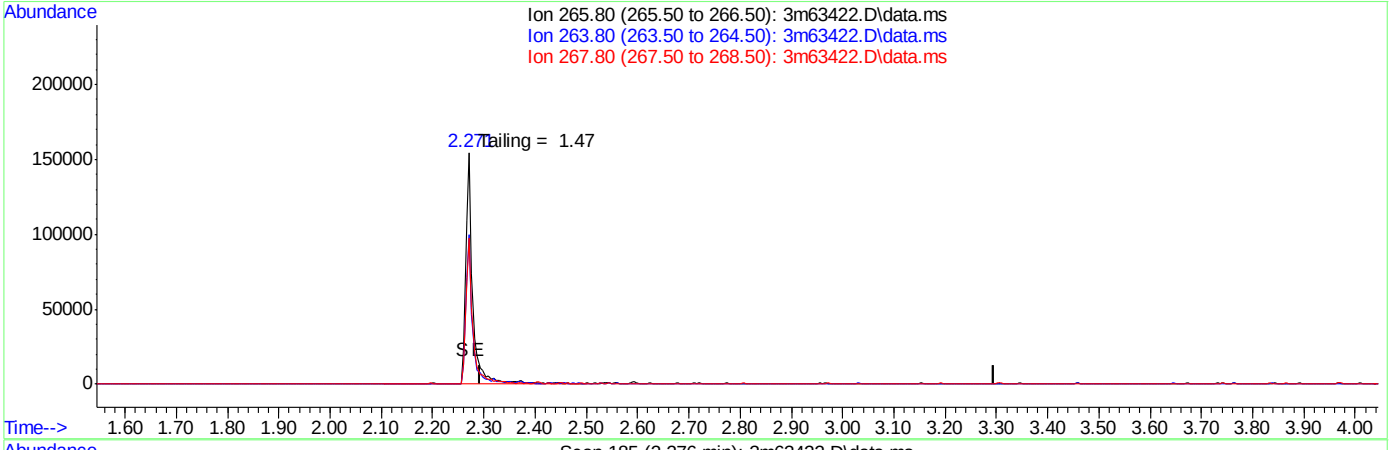
Average of 2.539 to 2.549 min.: 3m63422.D\data.ms
dftpp
Modified:subtracted

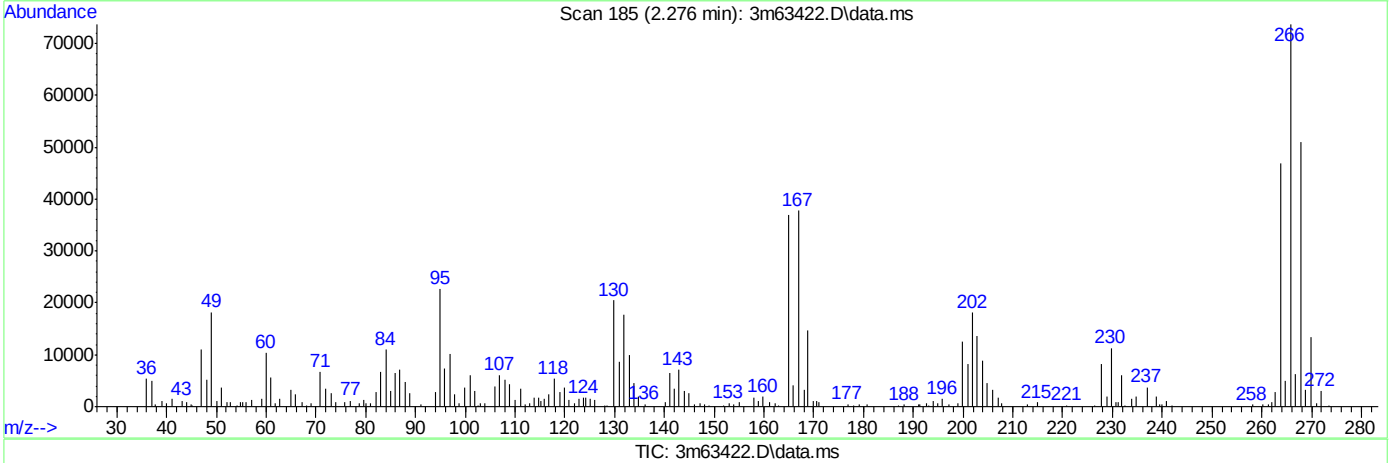
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
421.95	1964	432.55	430	437.90	427		
423.05	9625	433.25	302	438.20	831		
423.85	2015	433.70	670	438.80	1258		
425.30	208	434.35	719	439.20	658		
426.70	78	435.00	292	439.40	367		
427.40	110	435.20	462	439.90	771		
429.30	161	435.90	297	440.10	94		
430.05	321	436.20	251	441.10	30067		
430.80	389	436.75	1484	442.00	166061		
431.55	428	437.10	174	443.00	33749		
431.80	219	437.60	651	444.05	3776		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3006\
Data File : 3m63422.D
Acq On : 3 Aug 2016 10:56 am
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3006
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 03 11:01:08 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: 3m63422.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

response 0

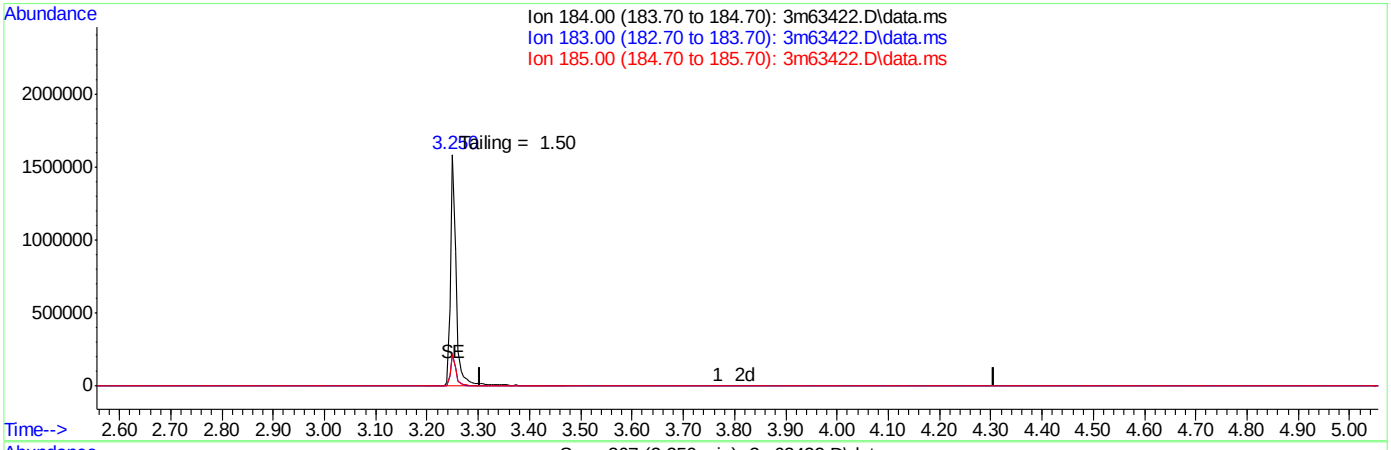
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

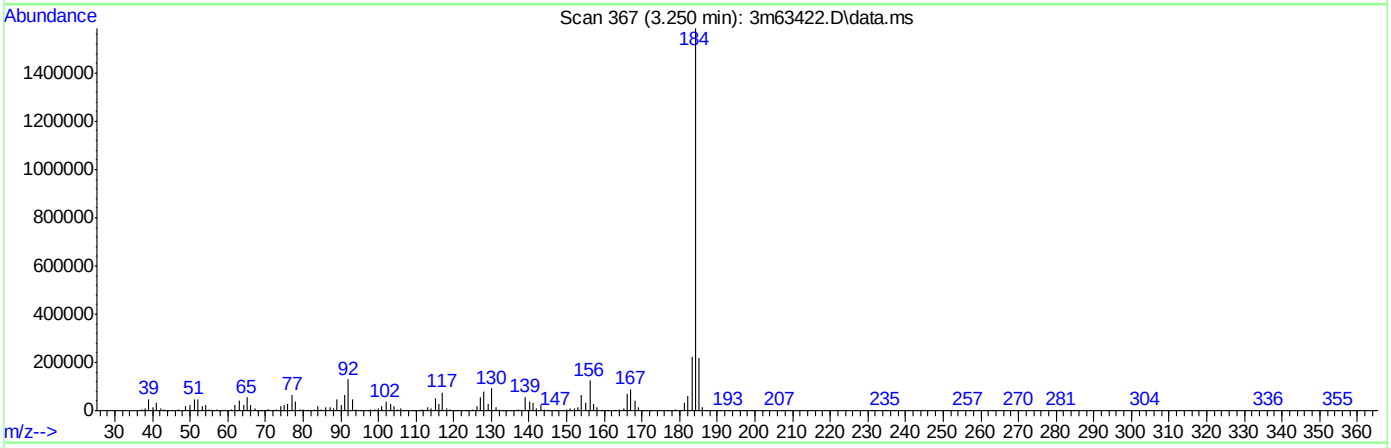
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3006\
Data File : 3m63422.D
Acq On : 3 Aug 2016 10:56 am
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3006
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 03 11:01:08 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: 3m63422.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

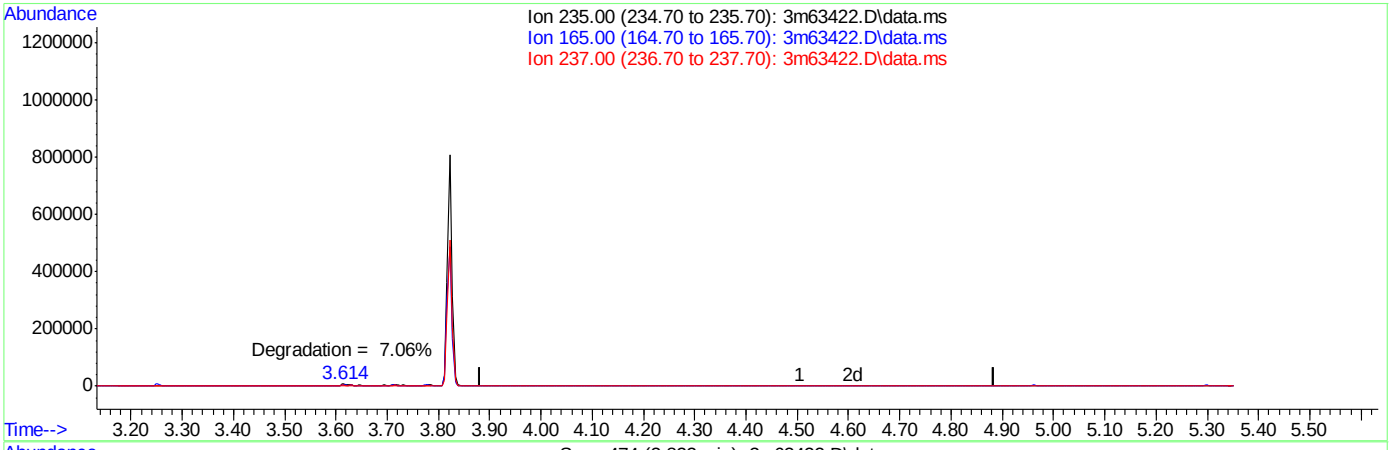
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

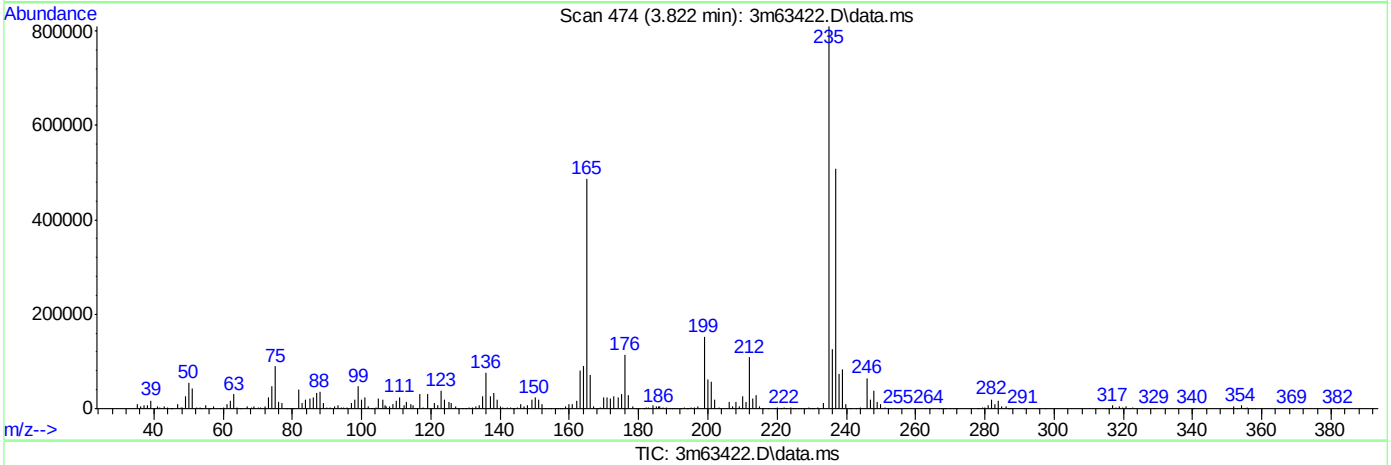
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3006\
Data File : 3m63422.D
Acq On : 3 Aug 2016 10:56 am
Operator : shaniceg
Sample : dftpp
Misc : op95160a,e3m3006
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 03 11:01:08 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: 3m63422.D\data.ms

(3) PP-DDT (t)

4.384min 0.00ppb d

response 0

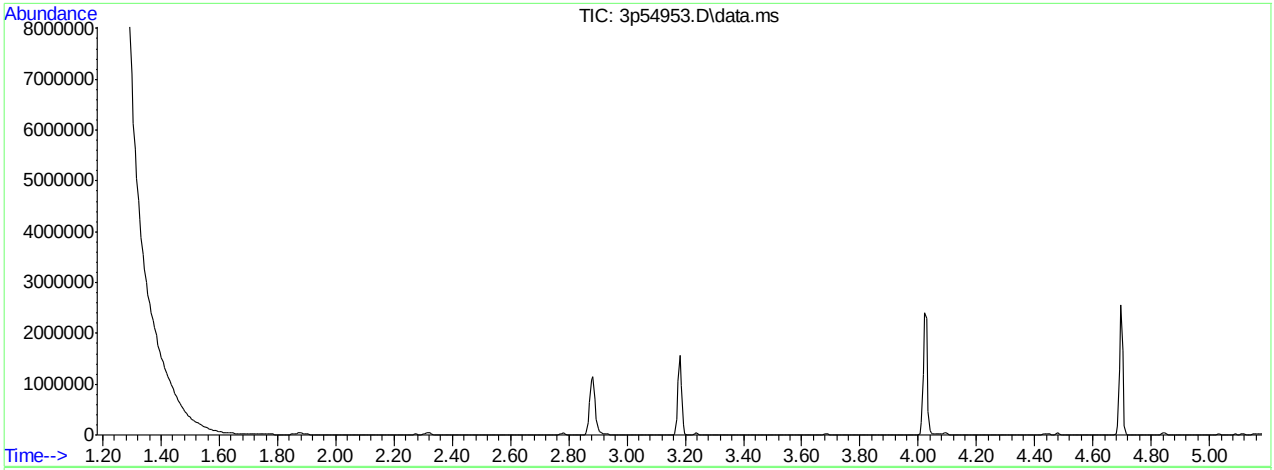
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

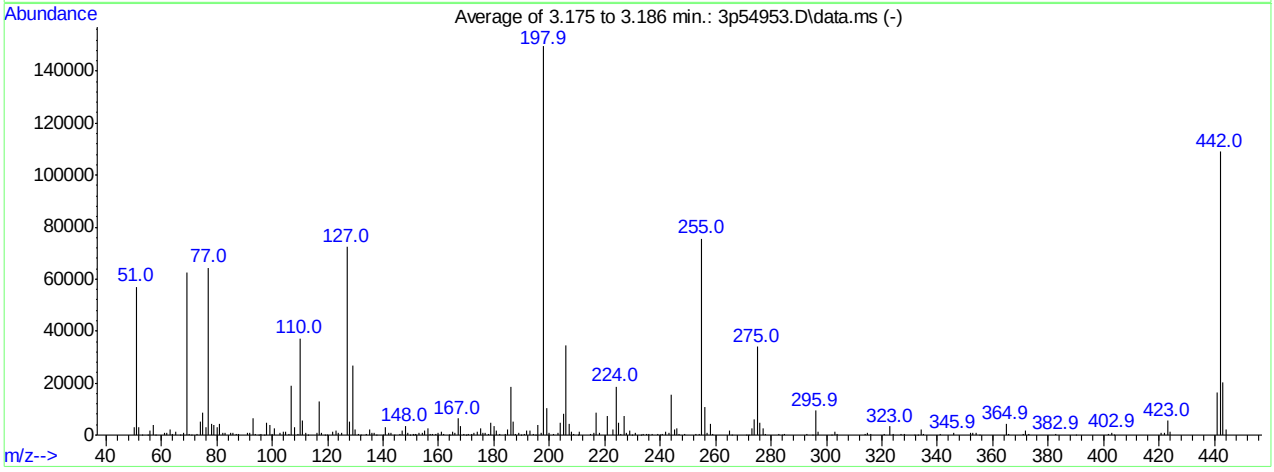
SGS ACCUTEST JC24816

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

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

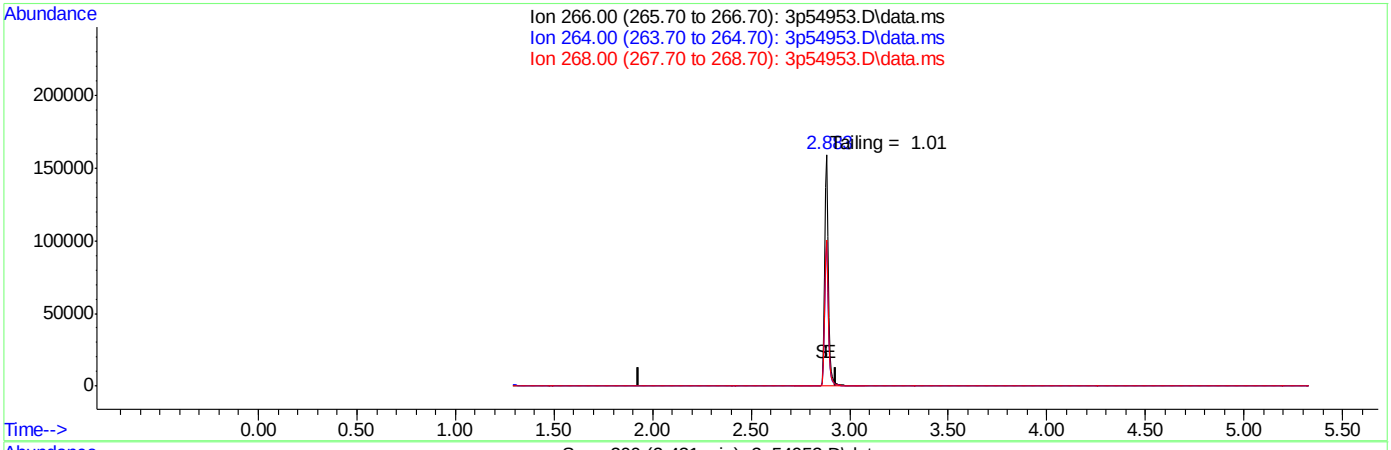
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
364.90	4170	421.95	702				
365.90	597	423.00	5541				
370.90	237	424.00	1113				
371.95	1727	441.00	16547				
372.90	423	442.00	109091				
382.90	397	443.00	20290				
389.90	210	444.00	2003				
401.85	620						
402.95	941						
403.90	227						
420.90	854						

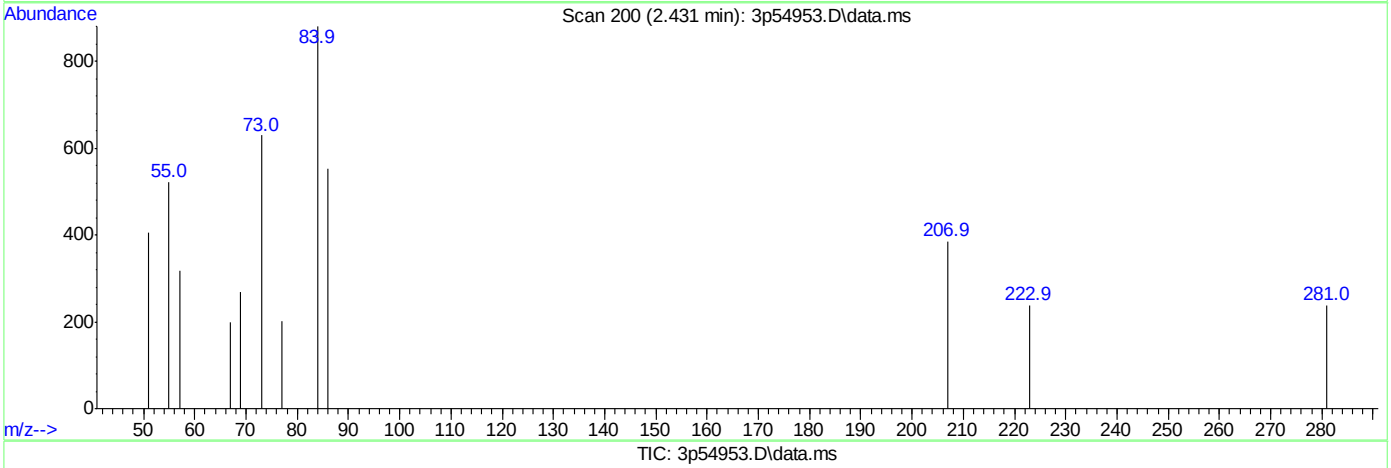
SGS ACCUTEST JC24816

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

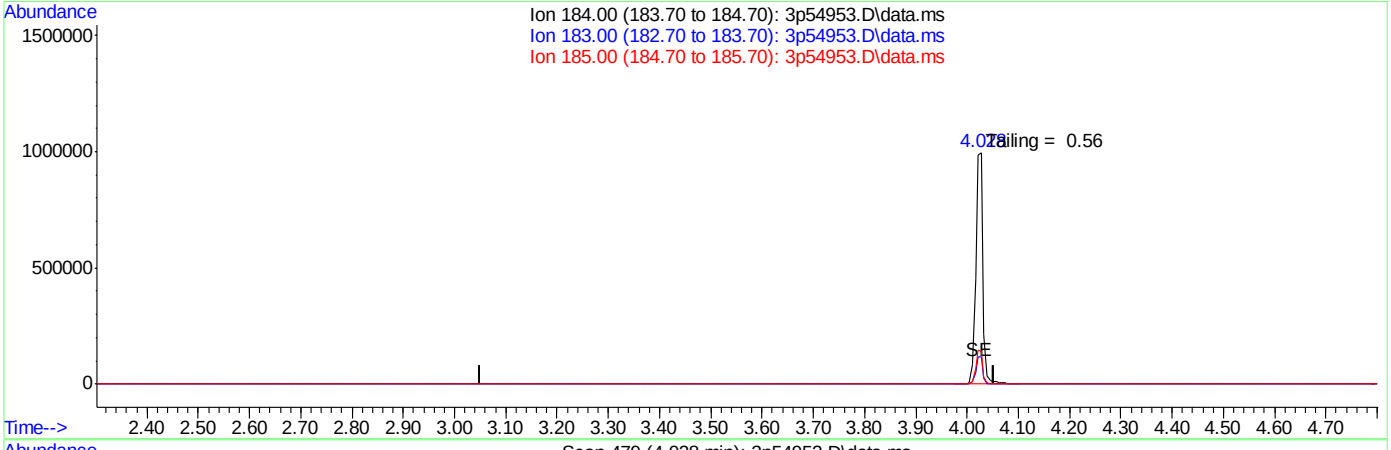
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

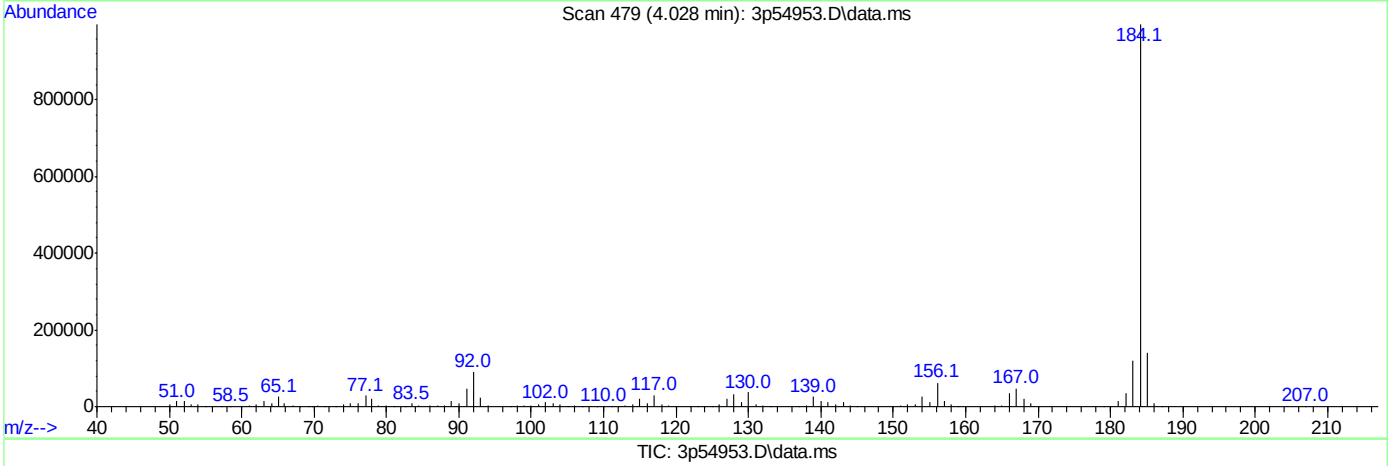
SGS ACCUTEST JC24816

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

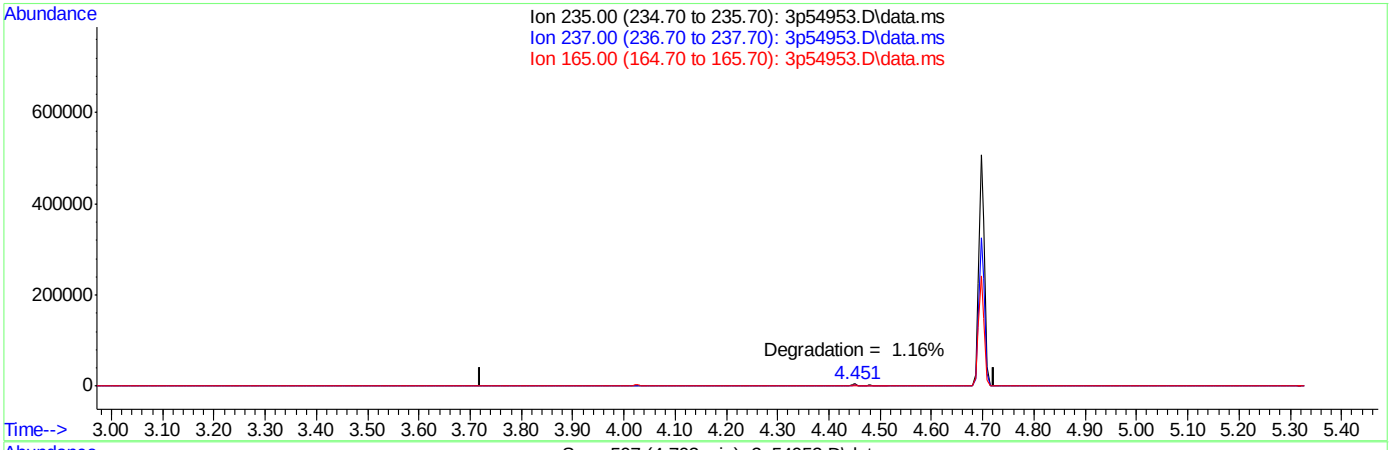
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

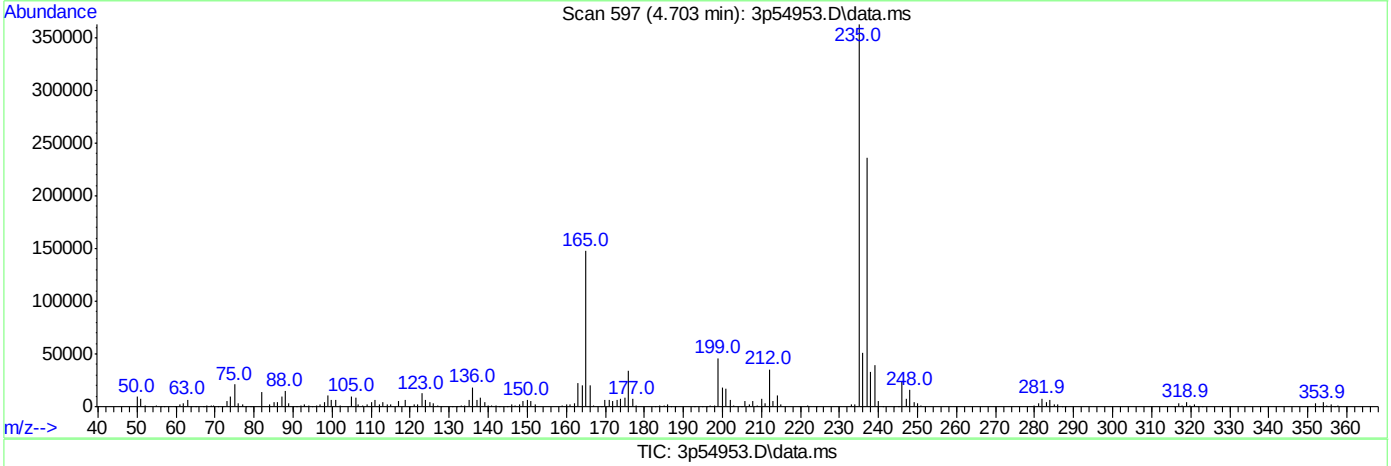
SGS ACCUTEST JC24816

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

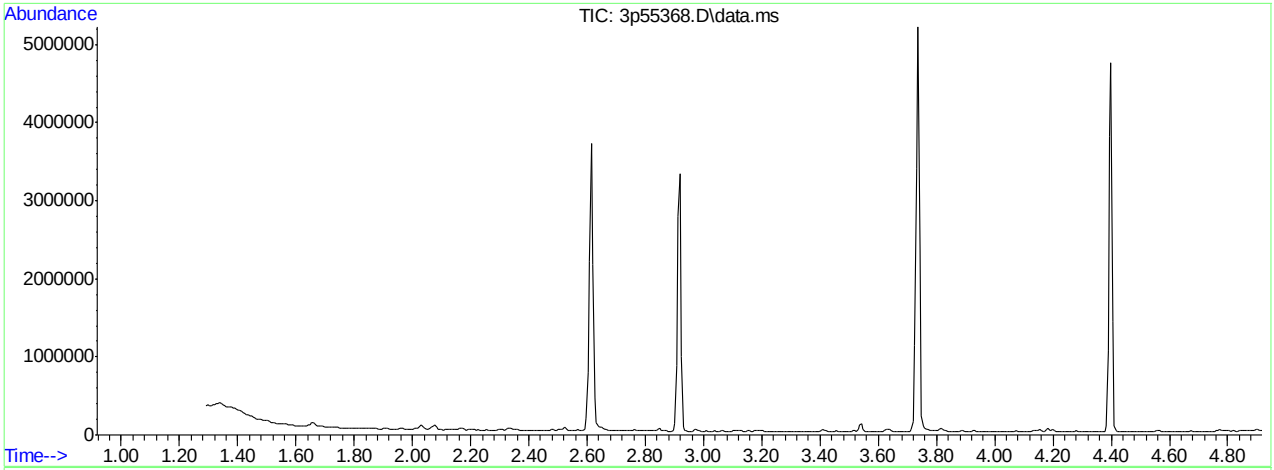
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

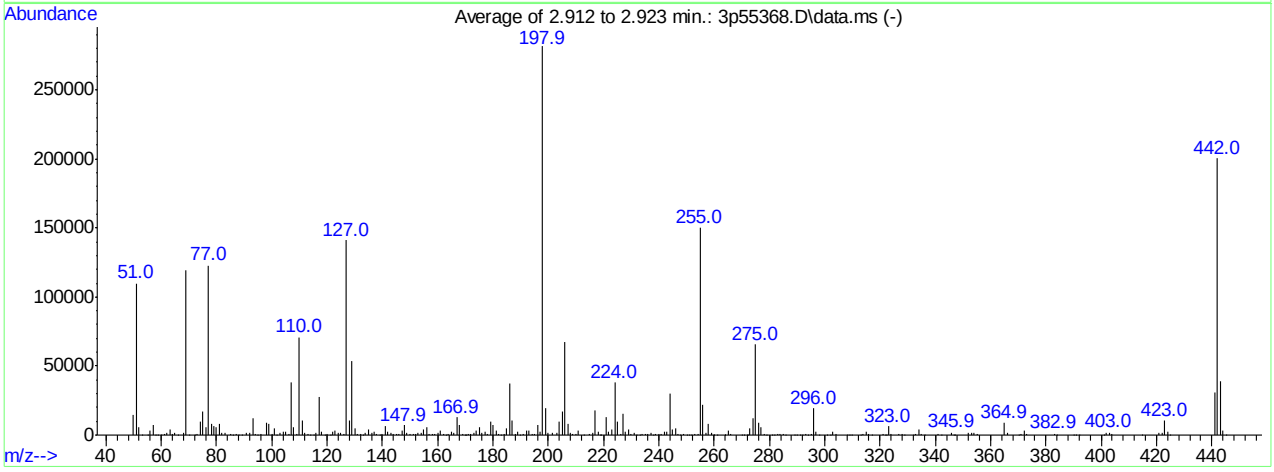
SGS ACCUTEST JC24816

DFTPP

Data File : C:\msdchem\1\data\E3P2531\3p55368.D Vial: 1
Acq On : 29 Jul 2016 10:07 pm Operator: juliusj
Sample : dftpp Inst : MSGC3P
Misc : op95837a,e3p2531 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 284, 285, 286; Background Corrected with Scan 280

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.0	109883	PASS
68	69	0.00	2	1.4	1700	PASS
69	198	0.00	100	42.3	118994	PASS
70	69	0.00	2	0.3	404	PASS
127	198	40	60	50.2	141256	PASS
197	198	0.00	1	0.9	2656	PASS
198	198	100	100	100.0	281461	PASS
199	198	5	9	6.8	19208	PASS
275	198	10	30	23.4	65752	PASS
365	198	1	100	3.1	8766	PASS
441	443	0.01	100	80.3	31152	PASS
442	198	40	100	71.2	200405	PASS
443	442	17	23	19.4	38789	PASS

3p55368.D DFTPP3P.M Mon Aug 01 12:05:20 2016

Average of 2.912 to 2.923 min.: 3p55368.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	14776	62.00	1516	75.00	16971	86.95	995
51.00	109883	63.00	4253	76.00	5688	87.90	274
52.00	5566	64.05	619	77.00	122717	88.95	91
53.00	99	64.95	2044	78.00	8399	90.95	1600
55.00	373	66.00	227	79.00	6921	92.00	2016
56.00	3146	68.00	1700	80.00	5567	93.00	12305
57.00	7533	69.00	118994	80.95	8115	94.00	776
57.90	423	70.00	404	82.00	1727	95.00	136
58.90	80	72.10	68	83.00	1709	96.00	451
59.95	160	72.95	599	85.00	1158	98.00	8946
61.00	1170	74.00	10032	85.90	6	99.00	7984

Average of 2.912 to 2.923 min.: 3p55368.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
100.00	698	111.00	10564	122.00	2324	132.90	54
101.00	4877	111.95	1376	123.00	3365	133.95	1434
101.90	287	112.95	579	123.95	1748	135.00	4228
103.00	1549	114.00	85	125.00	1626	136.00	1692
104.00	2787	114.95	71	126.10	595	137.00	2183
104.95	2345	116.00	2009	127.00	141256	138.00	452
106.00	1074	117.00	27913	127.95	10481	138.95	176
107.00	38542	118.00	2217	129.00	53862	139.95	639
108.00	5973	118.95	248	130.00	4711	141.00	6400
109.00	776	119.95	629	130.90	856	141.95	2193
110.00	70882	121.05	299	131.95	541	142.95	1321

Average of 2.912 to 2.923 min.: 3p55368.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
143.90	450	155.00	3698	165.95	1859	176.00	1744
145.00	597	156.00	5813	166.95	12627	176.95	2139
145.95	1089	157.05	1172	168.00	7656	178.00	645
147.00	3166	157.90	1147	169.00	1091	179.00	9394
147.95	7177	158.95	728	169.80	181	180.00	6931
148.95	1549	159.95	2047	170.05	234	181.00	3115
150.00	565	161.00	2995	170.95	505	182.00	506
151.00	967	161.95	908	171.90	1133	183.00	175
151.85	588	163.00	217	173.00	1585	183.90	753
153.00	1895	163.95	488	174.00	2946	185.00	4870
154.00	1589	164.95	2111	175.00	5403	186.00	37271

Average of 2.912 to 2.923 min.: 3p55368.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
187.00	10245	197.90	281461	210.05	1160	223.00	4039
188.00	1128	198.90	19208	210.95	2889	224.00	37925
188.95	2181	200.00	1475	213.00	214	225.00	9486
189.90	359	201.55	1311	215.00	719	226.00	1040
191.00	1184	202.95	1771	216.00	1540	227.00	15725
191.95	3382	204.00	9788	216.90	18211	227.95	2288
193.00	3425	205.00	16687	218.00	2294	229.00	3692
194.00	1108	206.00	67224	218.80	92	229.90	499
195.05	518	206.95	8433	219.00	118	231.00	1463
196.00	7177	208.00	2016	221.00	13100	231.95	206
197.00	2656	208.95	1009	221.80	2314	232.90	220

Average of 2.912 to 2.923 min.: 3p55368.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
233.95	1030	245.00	4126	256.00	21925	269.85	160
234.95	1110	246.00	5292	256.95	1702	270.95	293
235.95	812	246.90	1163	258.00	8530	271.85	203
237.00	1290	247.85	246	259.00	1407	272.10	204

M3P2503SIM.M Mon Aug 01 11:57:19 2016 Page: 0

237.90	234	248.90	963	259.80	93	273.00	5013
238.90	652	250.00	138	260.00	216	274.00	12314
239.95	441	251.00	231	260.90	230	275.00	65752
240.95	887	251.90	274	263.80	123	276.00	8715
241.95	2086	252.95	717	263.95	216	277.00	5631
243.00	2395	254.00	1238	264.95	3606	277.90	1039
244.00	30383	255.00	149893	265.90	734	278.95	170

Average of 2.912 to 2.923 min.: 3p55368.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
281.00	83	293.95	288	309.85	218	326.90	1209
281.85	187	295.00	432	313.00	67	327.90	605
282.95	679	296.00	19357	313.95	869	328.90	72
283.95	453	296.95	2677	314.90	2251	331.95	429
285.00	972	298.00	213	316.00	1090	332.95	539
286.00	93	301.00	100	316.95	213	334.00	4156
288.90	208	301.95	326	320.95	613	334.95	928
289.95	160	303.00	2237	321.90	102	335.90	71
290.90	84	303.95	611	322.10	105	341.00	754
292.00	244	307.95	171	323.00	6162	342.00	97
292.95	1246	308.90	90	324.00	1195	345.90	1658

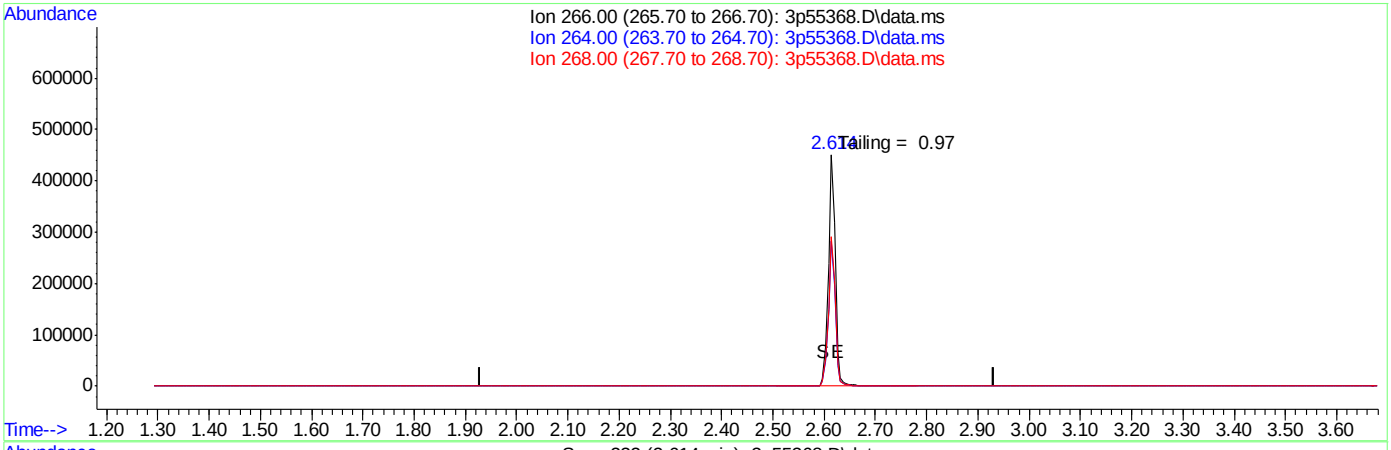
Average of 2.912 to 2.923 min.: 3p55368.D\data.ms
dftpp
Modified:subtracted

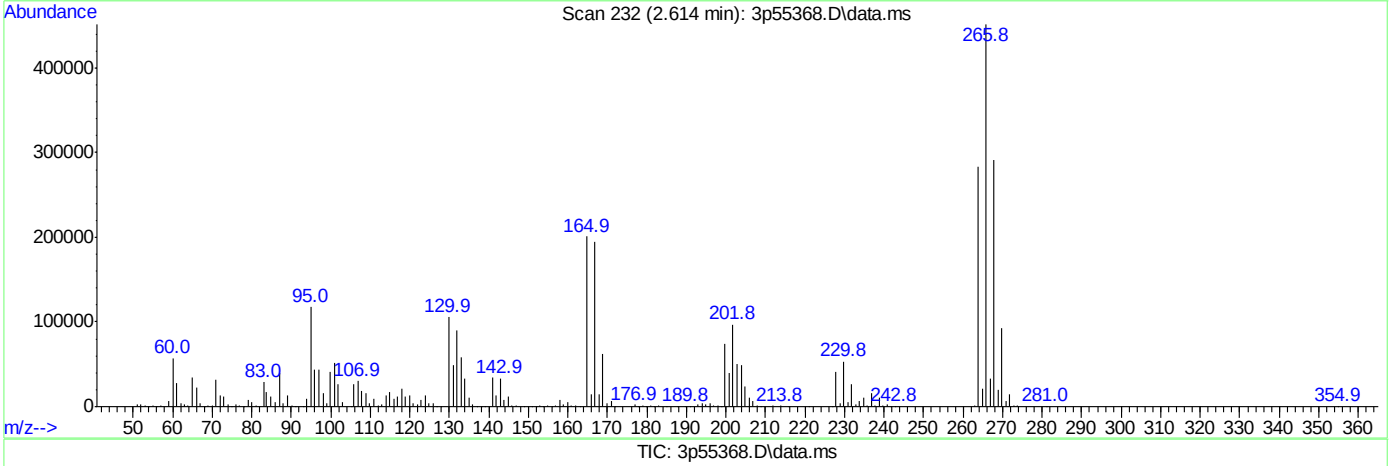
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.80	74	372.95	745	420.95	1558		
347.00	113	382.95	831	421.95	1635		
351.95	1827	383.90	225	423.00	10534		
352.95	1340	389.95	429	424.00	2366		
354.00	1843	390.95	180	424.95	255		
354.95	541	391.90	76	441.00	31152		
364.95	8766	401.00	76	442.00	200405		
365.90	1396	401.95	1396	443.00	38789		
369.95	168	403.00	1928	444.00	3644		
371.00	551	403.95	667	445.00	89		
372.00	3215	414.90	68				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2531\
Data File : 3p55368.D
Acq On : 29 Jul 2016 10:07 pm
Operator : juliusj
Sample : dftpp
Misc : op95837a,e3p2531
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 29 22:13:17 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





(1) Pentachlorophenol

2.431min (-2.431) 0.00

response 0

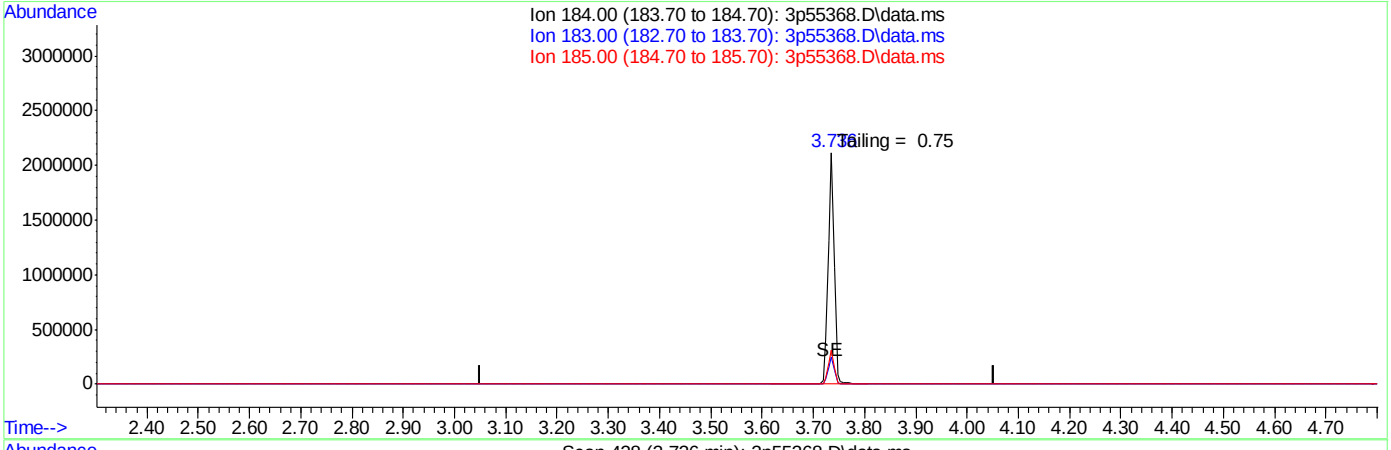
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

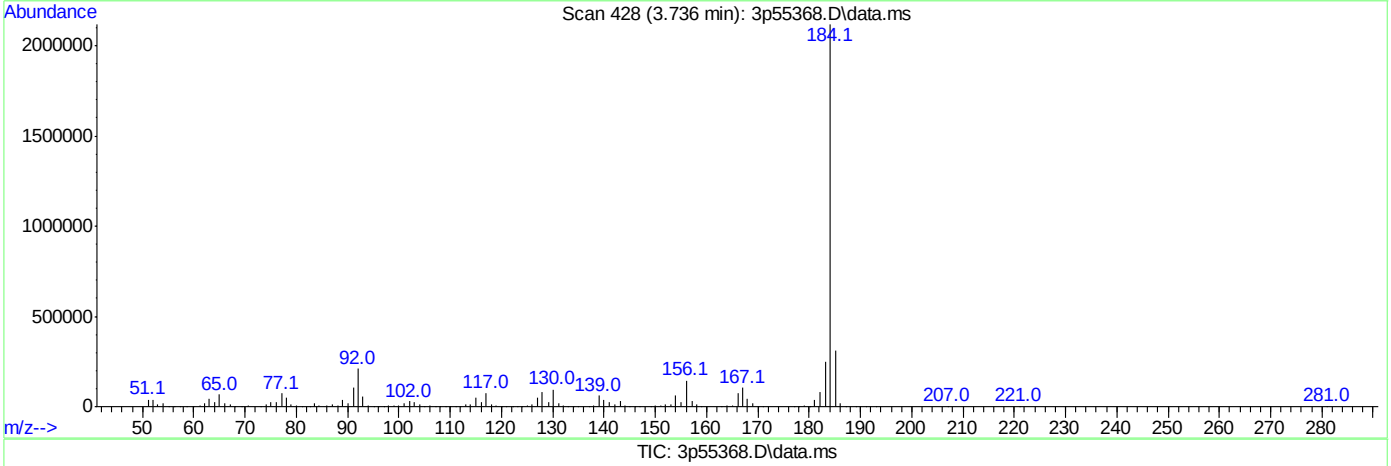
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2531\
Data File : 3p55368.D
Acq On : 29 Jul 2016 10:07 pm
Operator : juliusj
Sample : dftpp
Misc : op95837a,e3p2531
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 29 22:13:17 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: 3p55368.D\data.ms

(2) Benzidine

3.552min (-3.552) 0.00

response 0

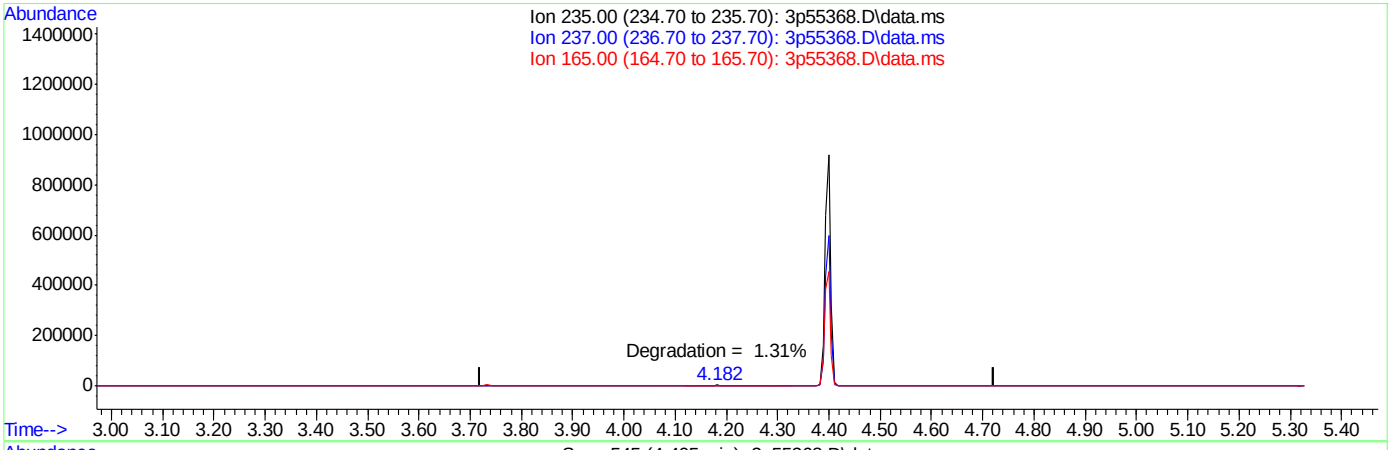
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

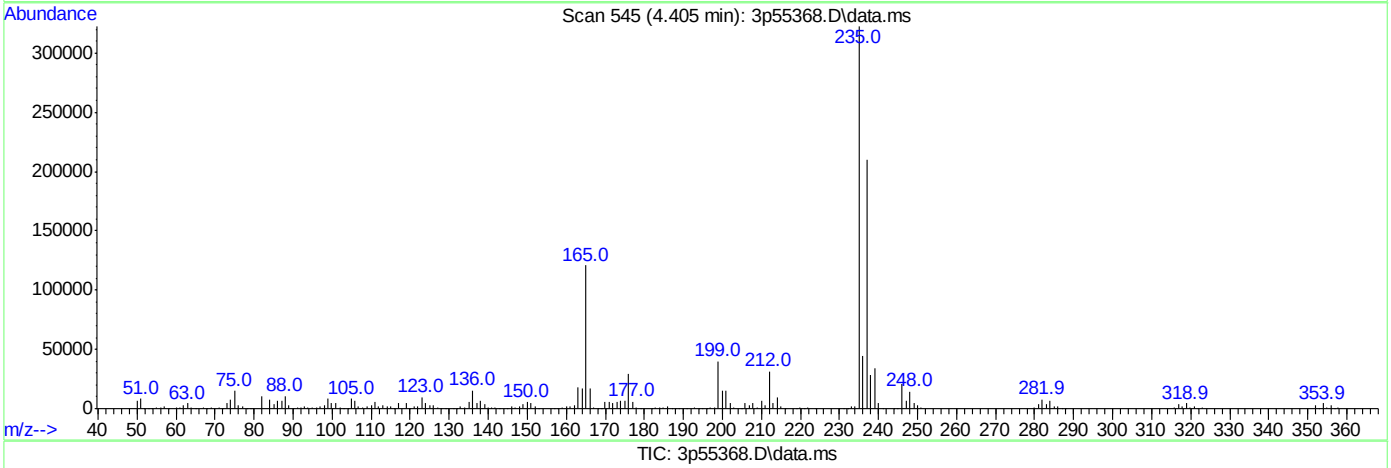
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2531\
Data File : 3p55368.D
Acq On : 29 Jul 2016 10:07 pm
Operator : juliusj
Sample : dftpp
Misc : op95837a,e3p2531
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 29 22:13:17 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: 3p55368.D\data.ms

(3) PP-DDT

4.222min (-4.222) 0.00

response 0

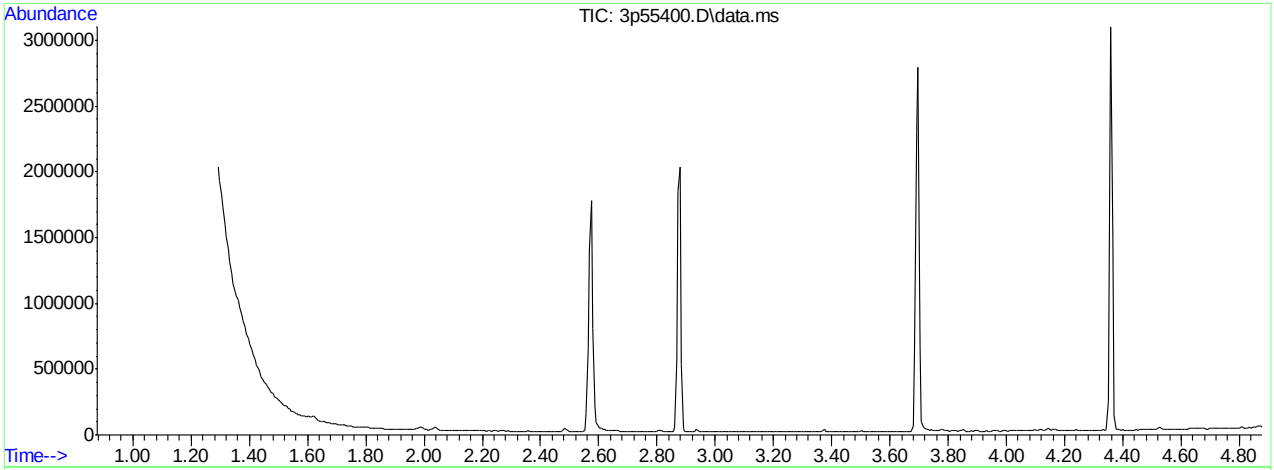
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

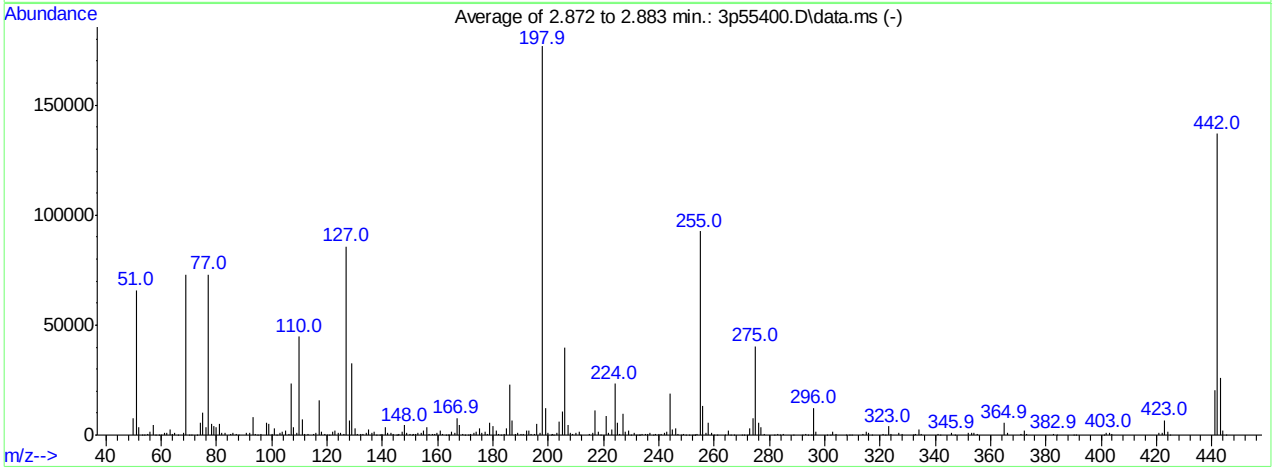
SGS ACCUTEST JC24816

DFTPP

Data File : C:\msdchem\1\data\E3P2534\3p55400.D Vial: 1
Acq On : 2 Aug 2016 8:55 am Operator: ashleyd
Sample : dftpp Inst : MSGC3P
Misc : op95837a,e3p2534 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 277, 278, 279; Background Corrected with Scan 272

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.2	65780	PASS
68	69	0.00	2	1.1	834	PASS
69	198	0.00	100	41.1	72656	PASS
70	69	0.00	2	0.3	253	PASS
127	198	40	60	48.6	85875	PASS
197	198	0.00	1	0.7	1192	PASS
198	198	100	100	100.0	176699	PASS
199	198	5	9	6.8	12012	PASS
275	198	10	30	22.9	40499	PASS
365	198	1	100	3.1	5432	PASS
441	443	0.01	100	78.8	20462	PASS
442	198	40	100	77.6	137056	PASS
443	442	17	23	19.0	25979	PASS

3p55400.D DFTPP3P.M Tue Aug 02 12:11:08 2016

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	7782	61.00	819	73.95	5736	85.90	1020
51.00	65780	62.00	914	75.00	10205	86.95	772
52.00	3477	63.00	2354	76.00	3388	87.90	160
52.95	162	63.95	373	77.00	72911	90.95	1075
53.90	170	64.95	1194	78.00	5007	92.00	1247
55.00	345	65.95	177	78.95	4268	93.00	8026
56.00	1580	68.00	834	80.00	3580	93.95	688
57.00	4752	69.00	72656	81.00	5059	94.95	41
57.95	30	70.05	253	82.00	1039	95.90	350
59.00	161	71.00	110	83.00	1115	98.00	5420
59.95	19	73.00	172	84.90	658	99.00	5076

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.95	460	111.00	6906	123.00	2101	134.00	855
101.00	3100	112.00	752	123.90	1077	135.00	2422
101.90	211	113.00	365	124.95	1111	136.00	998
103.00	959	115.00	328	126.10	644	137.00	1393
103.90	1689	116.00	914	127.00	85875	138.00	241
105.00	1915	117.00	15948	128.00	6446	138.90	160
106.00	652	117.95	1360	128.95	32722	140.00	308
107.00	23354	119.00	354	129.95	2903	141.00	3644
108.00	3720	119.90	256	130.95	751	142.00	1190
109.00	785	120.90	258	132.00	327	142.90	1015
110.00	44750	121.95	1435	133.00	341	143.95	282

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.95	258	153.95	1049	164.00	123	175.00	3098
145.70	67	155.00	2278	164.90	1296	175.95	1010
145.95	544	156.00	3381	166.00	1085	177.00	1513
146.95	1698	157.00	699	166.90	7693	177.90	434
148.00	4390	157.90	661	168.00	4367	178.95	5854
148.90	967	158.95	522	169.00	755	180.00	4330
150.00	330	159.90	1176	169.90	225	181.00	2066
150.80	69	160.95	1892	170.90	246	182.00	430
151.05	469	161.90	466	171.90	702	182.90	88
151.90	356	163.05	178	172.95	898	183.95	412
152.90	1204	163.70	98	174.00	1682	185.00	3074

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
186.00	22790	197.00	1192	206.95	4605	221.00	8491
187.00	6417	197.90	176699	207.95	1161	221.70	1046
188.00	601	198.95	12012	208.95	551	222.95	2507
188.95	1138	200.00	879	210.15	807	224.00	23274
189.95	278	201.20	68	211.00	1679	225.00	5686
191.00	741	201.45	735	211.60	85	225.95	641
191.95	2025	201.70	80	215.00	488	227.00	9850
192.90	1869	203.00	1131	215.95	929	227.90	1387
193.95	390	204.00	5946	216.90	11084	229.00	1937
194.95	296	205.00	10519	218.00	1440	229.90	254
195.95	4879	206.00	39809	219.00	92	230.95	791

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
232.00	76	242.00	1197	252.80	116	264.95	2099
232.70	98	243.00	1302	253.00	256	265.85	198
233.00	98	244.00	18787	253.95	591	267.00	77
233.90	553	245.00	2586	255.00	92531	269.80	77

DFTPP3P.M Tue Aug 02 12:11:04 2016 Page: 0

234.95	699	246.00	3285	255.95	13420	270.95	160
235.90	456	246.90	588	256.95	1112	271.95	254
236.90	839	247.90	76	258.00	5394	272.95	2955
237.90	74	248.90	710	258.90	868	273.95	7533
238.90	303	249.90	74	259.90	70	275.00	40499
239.95	301	251.00	75	260.90	77	276.00	5559
240.95	548	252.05	194	263.80	222	277.00	3581

Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.90	597	296.95	1690	316.90	68	335.00	562
281.90	85	300.90	180	320.90	461	340.90	550
283.00	444	301.95	159	321.95	202	341.90	72
283.90	229	303.00	1435	323.00	4020	345.90	965
284.95	614	303.95	387	323.95	780	346.85	191
288.80	85	307.90	71	326.95	863	352.00	1282
291.90	86	308.90	69	327.95	334	352.95	868
293.00	782	309.90	75	331.90	129	354.00	1151
293.95	184	313.90	626	332.05	197	354.95	303
295.00	256	314.90	1381	333.00	287	364.95	5432
296.00	12332	315.95	788	334.00	2641	365.90	906

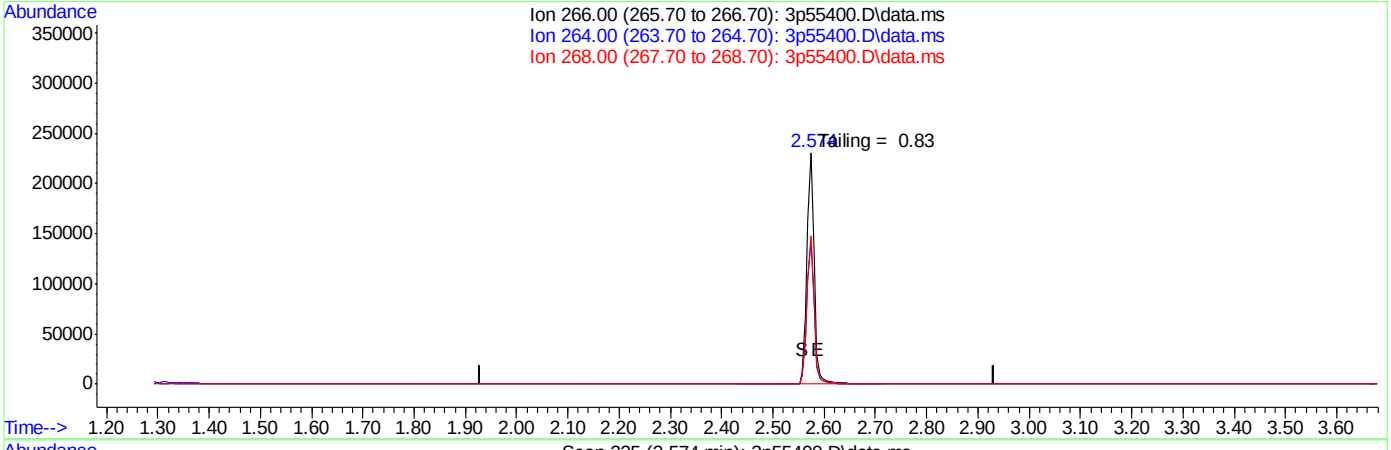
Average of 2.872 to 2.883 min.: 3p55400.D\data.ms
dftpp
Modified:subtracted

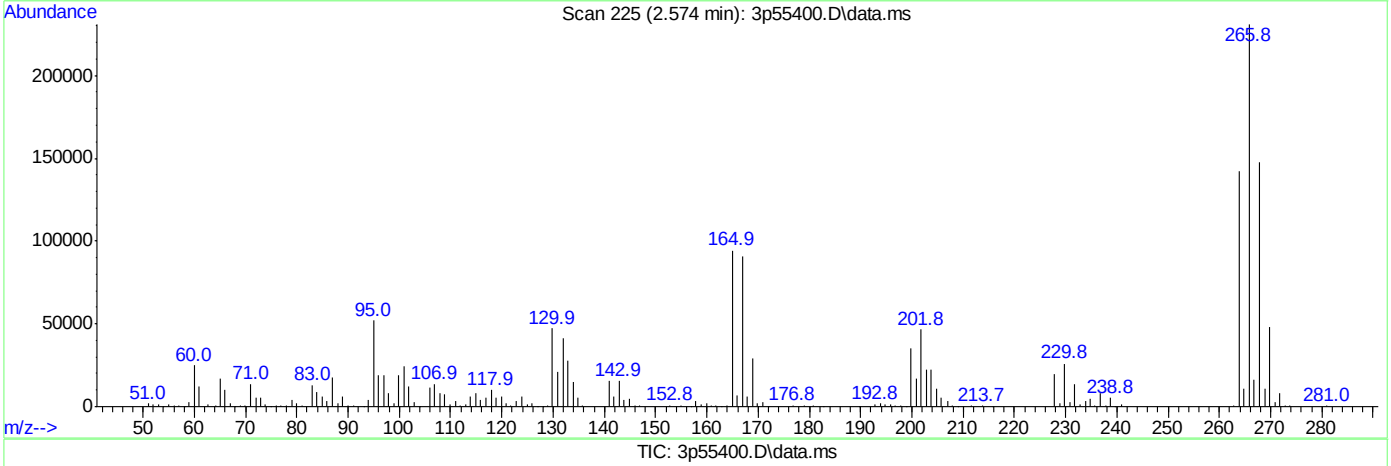
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
370.95	305	420.95	1026				
372.00	2201	421.95	962				
373.00	514	423.00	6807				
382.90	546	424.00	1773				
383.90	78	425.00	85				
389.90	240	441.00	20462				
390.90	89	442.00	137056				
401.00	89	443.00	25979				
401.95	810	444.00	2201				
403.00	1162	445.00	88				
403.95	569						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55400.D
Acq On : 2 Aug 2016 8:55 am
Operator : ashleyd
Sample : dftpp
Misc : op95837a,e3p2534
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 09:00:59 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





(1) Pentachlorophenol

2.431min (-2.431) 0.00

response 0

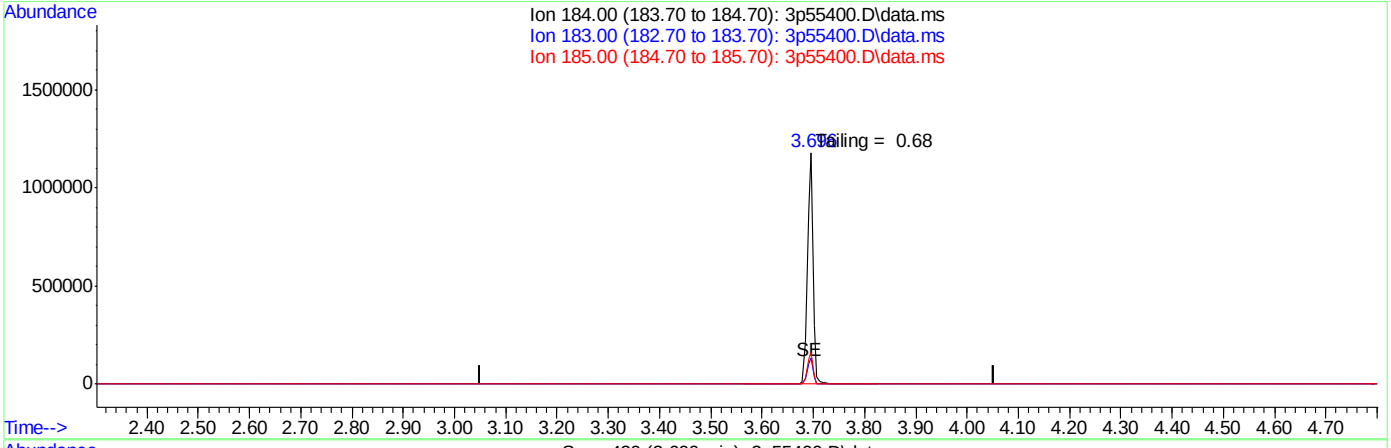
Ion	Exp%	Act%
266.00	100	0.00
264.00	0.00	0.00
268.00	0.00	0.00
0.00	0.00	0.00

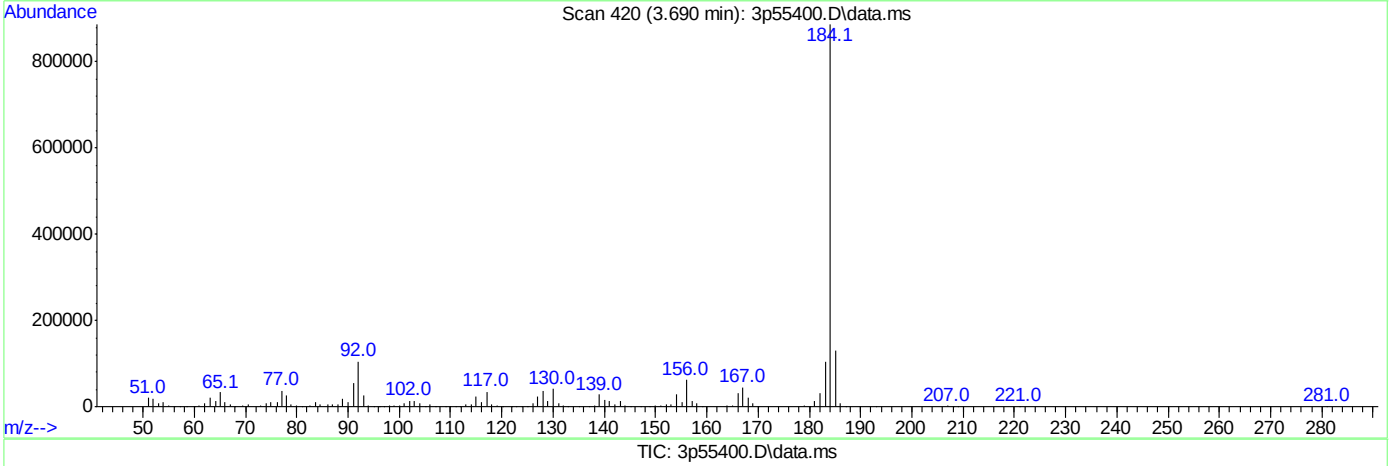
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55400.D
Acq On : 2 Aug 2016 8:55 am
Operator : ashleyd
Sample : dftpp
Misc : op95837a,e3p2534
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 09:00:59 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: 3p55400.D\data.ms

(2) Benzidine

3.552min (-3.552) 0.00

response 0

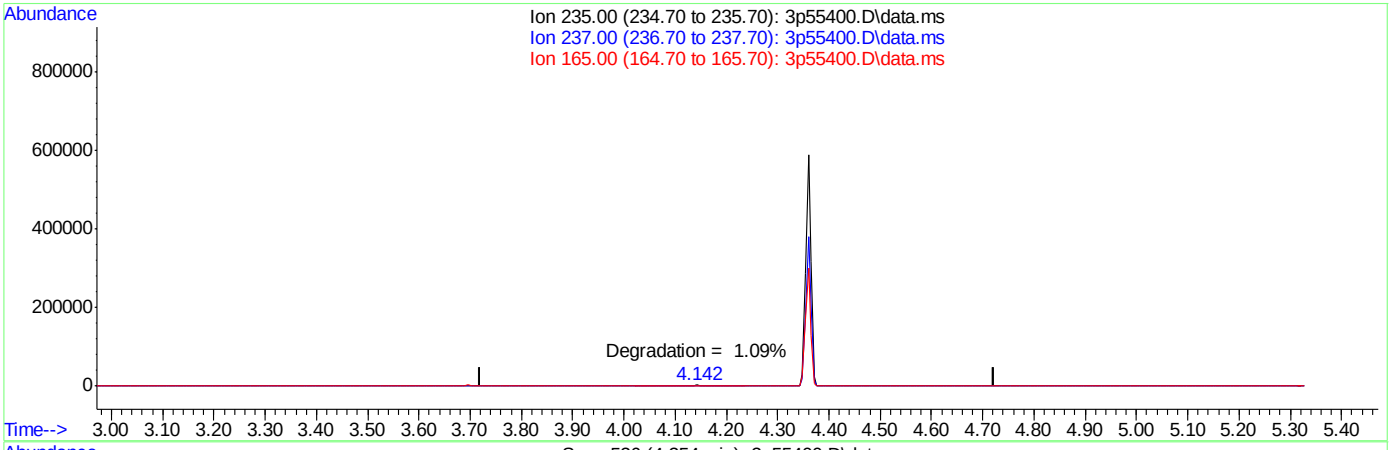
Ion	Exp%	Act%
184.00	100	0.00
183.00	0.00	0.00
185.00	0.00	0.00
0.00	0.00	0.00

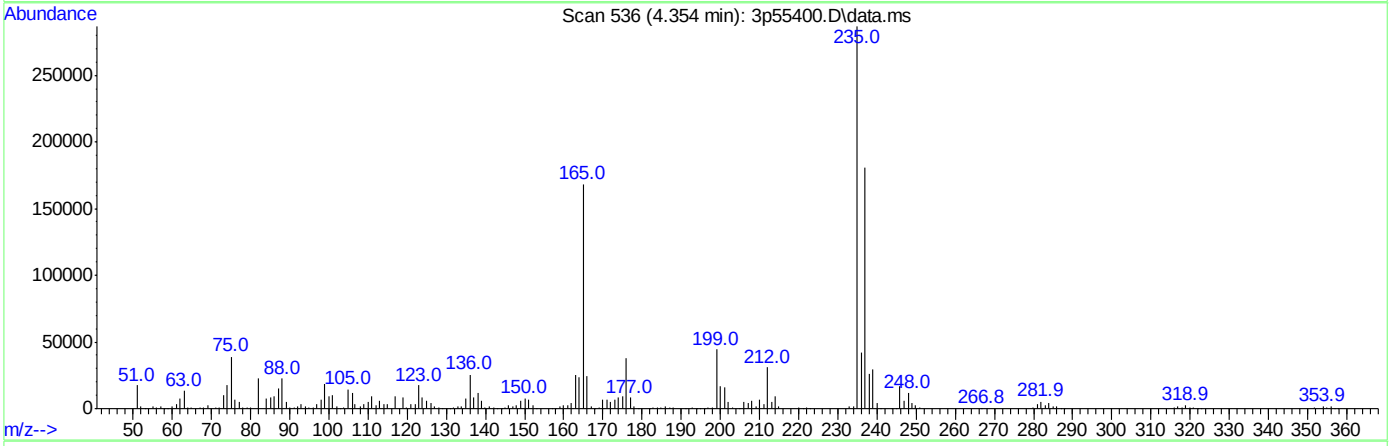
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55400.D
Acq On : 2 Aug 2016 8:55 am
Operator : ashleyd
Sample : dftpp
Misc : op95837a,e3p2534
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 02 09:00:59 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: 3p55400.D\data.ms

(3) PP-DDT

4.222min (-4.222) 0.00

response 0

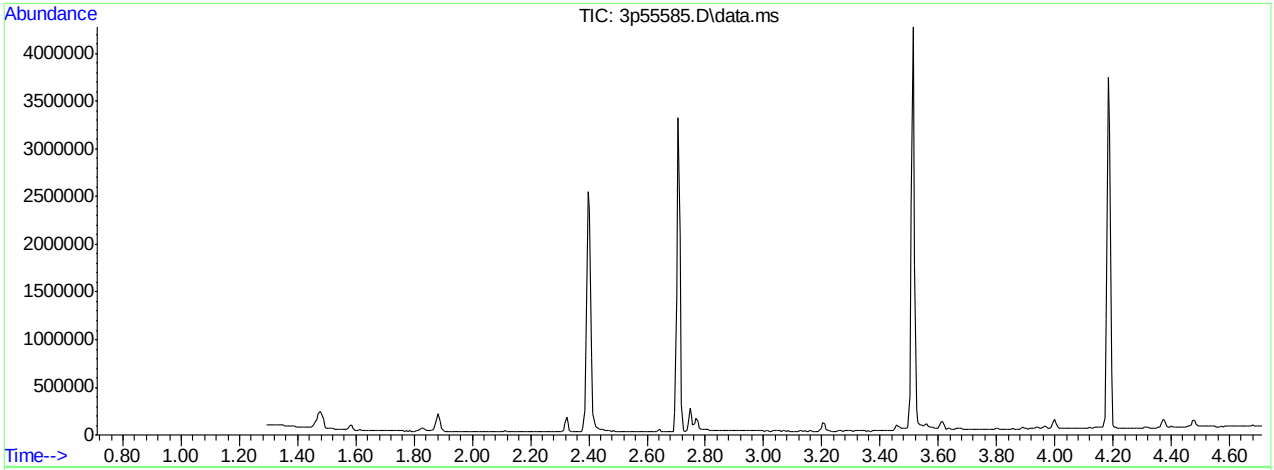
Ion	Exp%	Act%
235.00	100	0.00
237.00	0.00	0.00
165.00	0.00	0.00
0.00	0.00	0.00

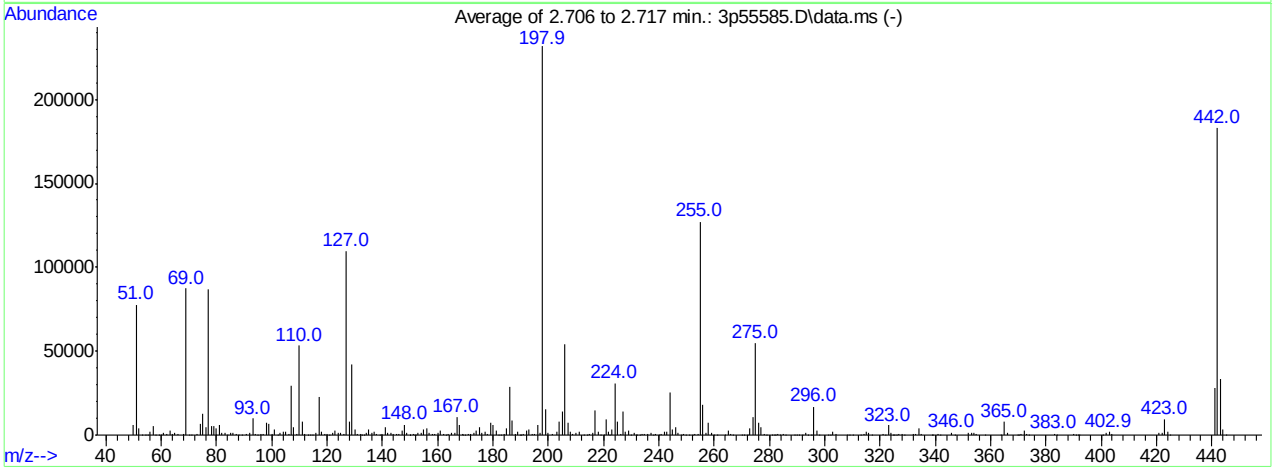
SGS ACCUTEST JC24816

DFTPP

Data File : C:\msdchem\1\data\E3P2546\3p55585.D Vial: 1
Acq On : 9 Aug 2016 2:26 pm Operator: ashleyd
Sample : DFTPP Inst : MSGC3P
Misc : op95964a,e3p2546 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 248, 249, 250; Background Corrected with Scan 242

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.5	77656	PASS
68	69	0.00	2	1.1	951	PASS
69	198	0.00	100	37.7	87351	PASS
70	69	0.00	2	0.4	331	PASS
127	198	40	60	47.4	109705	PASS
197	198	0.00	1	0.5	1219	PASS
198	198	100	100	100.0	231597	PASS
199	198	5	9	6.5	15096	PASS
275	198	10	30	23.8	55130	PASS
365	198	1	100	3.4	7983	PASS
441	443	0.01	100	83.5	27961	PASS
442	198	40	100	79.0	182904	PASS
443	442	17	23	18.3	33479	PASS

3p55585.D DFTPP3P.M Tue Aug 09 16:44:19 2016

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	5776	60.95	1152	74.00	6705	83.95	213
51.00	77656	62.00	939	75.00	12396	84.95	1033
52.00	3947	63.00	2817	76.00	4387	86.00	1483
53.00	76	64.00	504	77.00	86794	86.95	961
54.15	286	65.00	1487	78.00	5130	87.90	337
55.05	286	66.00	372	79.00	5067	89.00	153
55.95	2351	68.00	951	79.70	114	90.95	799
57.00	5224	69.00	87351	80.00	4354	91.95	1292
57.90	185	70.00	331	81.00	6340	93.00	9757
59.10	192	71.00	55	82.00	1348	93.95	593
59.95	143	73.00	872	83.00	1251	95.00	110

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.95	515	107.00	29102	118.00	1765	128.95	41934
96.95	409	108.00	4722	119.00	401	129.95	3245
98.00	7075	109.00	729	119.95	405	131.00	945
99.00	6380	110.00	53425	120.90	73	131.95	423
100.00	619	111.00	8246	121.95	1630	132.70	85
100.90	3661	111.95	817	123.00	2608	133.20	80
101.95	312	112.95	131	123.95	1296	134.00	1028
102.90	1059	113.90	71	124.95	1469	135.00	3125
103.95	2290	114.80	212	126.05	499	136.00	1369
104.95	2135	116.00	1446	127.00	109705	137.00	1916
106.05	876	116.95	23066	127.95	7926	137.95	469

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
139.05	285	149.90	85	158.90	714	169.20	80
140.00	490	150.10	155	160.00	1629	169.95	313
140.90	4808	151.05	737	161.00	2801	170.90	437
142.05	1619	151.70	337	162.00	831	171.90	956
142.95	1105	151.95	307	162.95	217	173.00	1304
144.00	466	152.95	1592	163.90	375	173.95	2360
144.95	373	154.00	1118	164.90	1613	175.00	4661
146.05	813	155.00	3244	166.00	1514	175.90	1424
147.00	2486	156.00	4276	167.00	10758	176.95	1719
148.00	6244	156.95	1130	167.95	6348	178.00	750
148.95	1301	157.95	845	169.00	1021	179.00	7627

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.00	5930	190.00	87	201.35	908	213.90	77
181.00	2851	190.90	714	202.95	1704	215.00	749
181.95	188	192.00	2900	204.00	8213	215.95	1420
182.70	254	193.00	3119	205.00	13993	216.90	14885
183.95	626	194.05	547	206.00	54002	217.95	1951
185.00	3961	194.90	530	207.00	7255	218.90	140
186.00	28657	196.00	5770	208.00	1881	220.10	301
187.00	8860	197.00	1219	208.90	628	220.95	9494
187.95	819	197.90	231597	210.15	1102	221.80	2126
188.90	2018	198.90	15096	211.00	2322	222.00	72
189.80	194	199.95	1262	212.95	241	222.95	3463

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
224.00	30944	233.90	770	245.00	3142	256.00	18372
225.00	7898	234.90	721	246.00	4973	257.00	1412
226.00	663	236.00	681	247.00	1063	257.95	7167
227.00	13768	236.95	1076	247.95	235	258.90	1150

M3P2503SIM.M Tue Aug 09 16:32:43 2016 Page: 0

227.95	1819	238.00	129	249.00	833	260.00	229
228.95	2623	238.90	463	249.90	232	260.95	193
229.90	289	239.90	345	250.85	210	263.80	72
231.00	1152	240.95	602	252.10	279	264.95	2927
231.70	100	242.00	1853	252.95	602	265.90	784
232.00	133	243.00	1742	254.00	921	266.85	161
233.00	182	244.00	25333	255.00	127099	269.90	113

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
270.95	283	282.00	235	295.00	343	312.90	77
271.95	321	283.05	739	296.00	16884	314.00	894
272.95	4020	283.95	357	297.00	2418	314.95	1849
274.00	10614	285.00	954	297.90	70	316.00	1165
275.00	55130	285.90	185	301.05	179	316.90	73
276.00	7378	288.85	174	301.95	236	320.95	474
276.95	4727	289.85	186	302.95	2159	321.90	213
277.95	915	290.80	74	304.00	495	323.00	5741
278.90	81	291.95	182	308.00	181	324.00	1074
281.00	227	292.95	1379	308.90	92	324.80	71
281.80	82	294.05	316	309.95	301	325.10	112

Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
326.00	79	341.90	229	369.80	82	391.90	81
326.95	961	346.00	1583	370.00	78	400.75	193
327.90	571	346.85	217	370.90	418	401.95	1208
328.90	102	351.95	1582	372.00	2777	402.95	1793
331.90	412	353.00	1179	372.95	508	403.85	566
333.00	516	354.00	1603	373.95	143	420.95	1327
334.00	3769	354.90	370	383.00	828	422.00	1220
334.95	988	358.10	78	384.05	264	423.00	9630
338.80	93	363.80	68	390.00	413	424.05	2143
339.10	76	365.00	7983	391.00	315	425.00	180
340.95	732	366.00	1406	391.70	68	441.00	27961

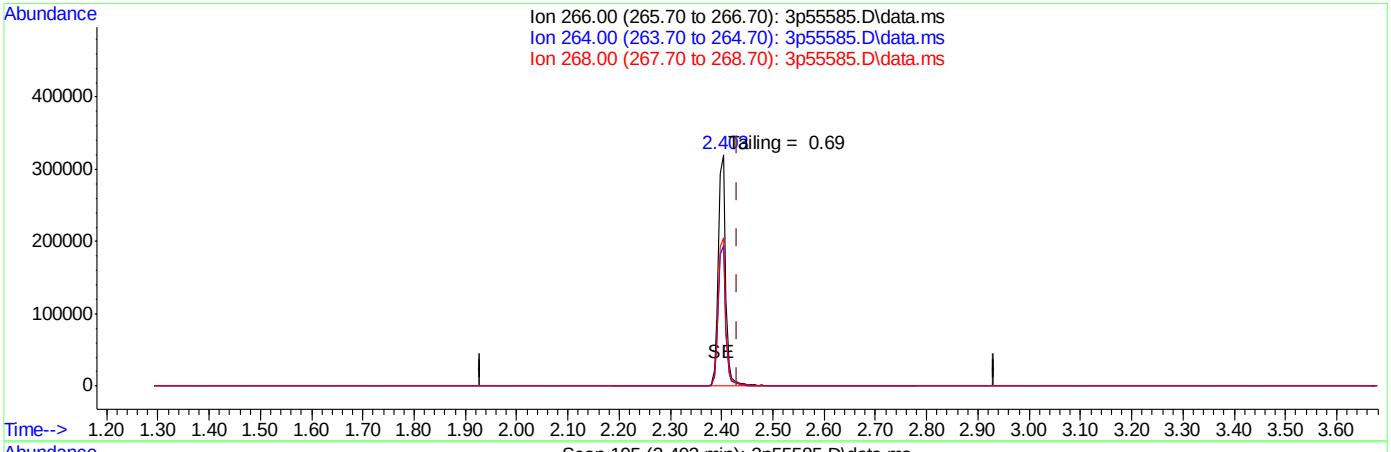
Average of 2.706 to 2.717 min.: 3p55585.D\data.ms
DFTPP
Modified:subtracted

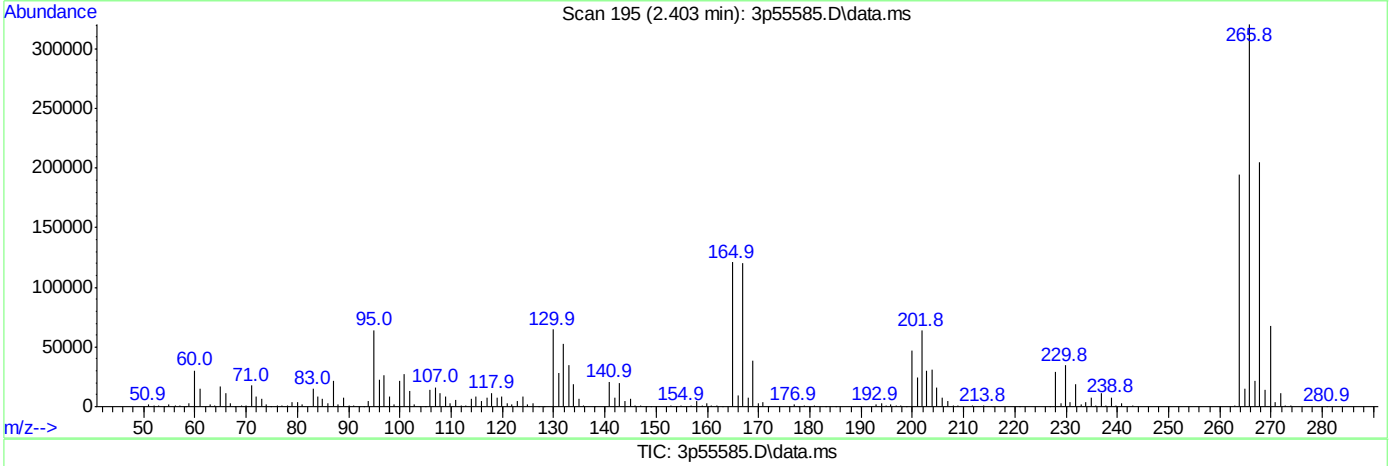
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
442.00	182904						
443.00	33479						
444.00	3289						
445.00	195						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55585.D
Acq On : 9 Aug 2016 2:26 pm
Operator : ashleyd
Sample : DFTPP
Misc : op95964a,e3p2546
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 14:32:04 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





(1) Pentachlorophenol

2.403min (-0.028) 31.36

response 3147085

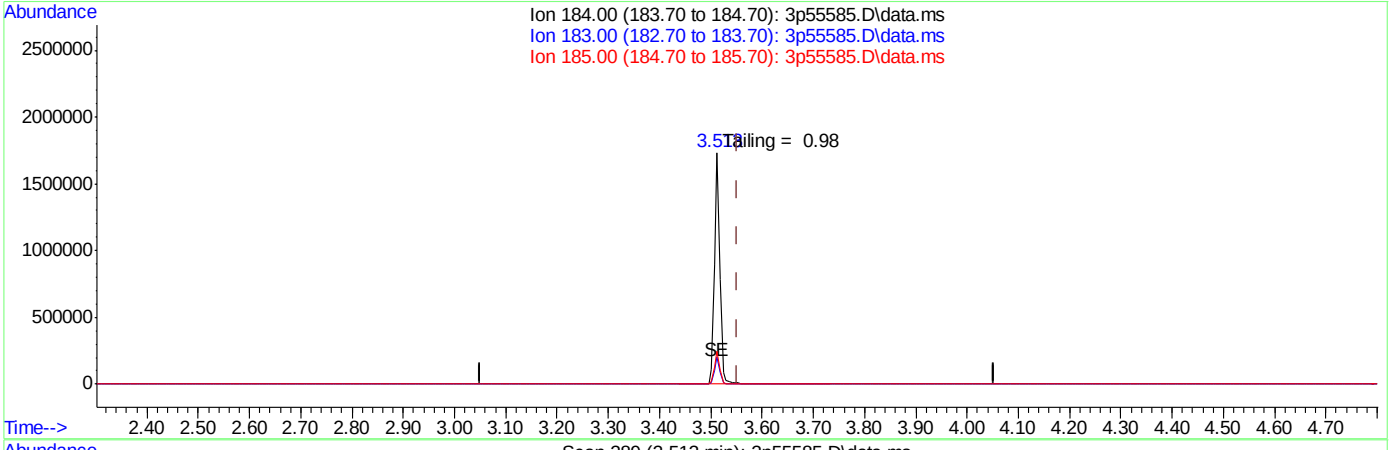
Ion	Exp%	Act%
266.00	100	100
264.00	0.00	61.06#
268.00	0.00	64.78#
0.00	0.00	0.00

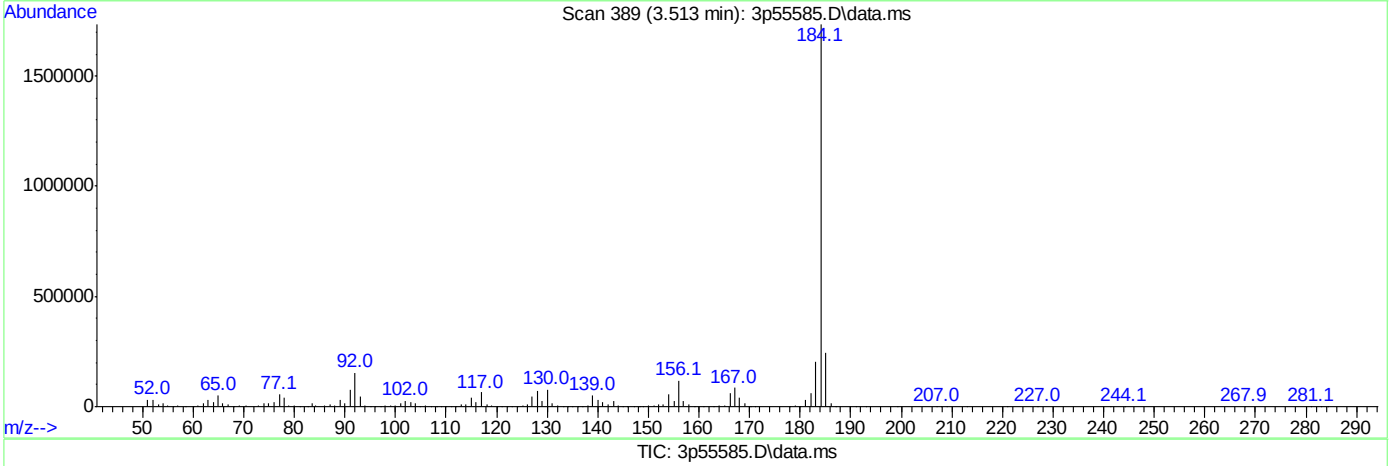
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55585.D
Acq On    :  9 Aug 2016   2:26 pm
Operator  : ashleyd
Sample    : DFTPP
Misc      : op95964a,e3p2546
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Aug 09 14:32:04 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: 3p55585.D\data.ms

(2) Benzidine

3.515min (-0.038) 33.32

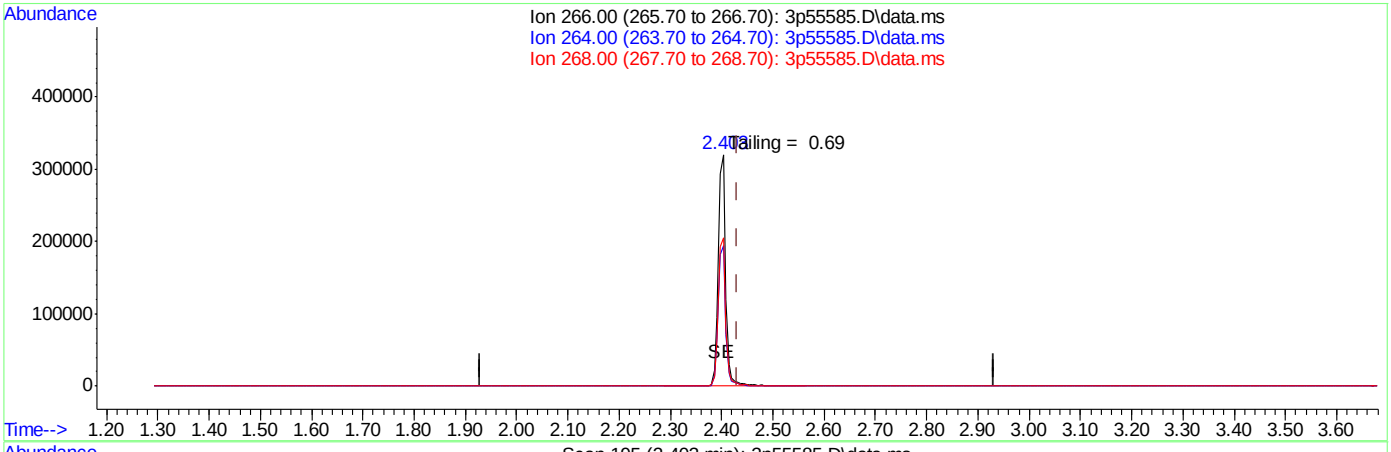
response 12644673

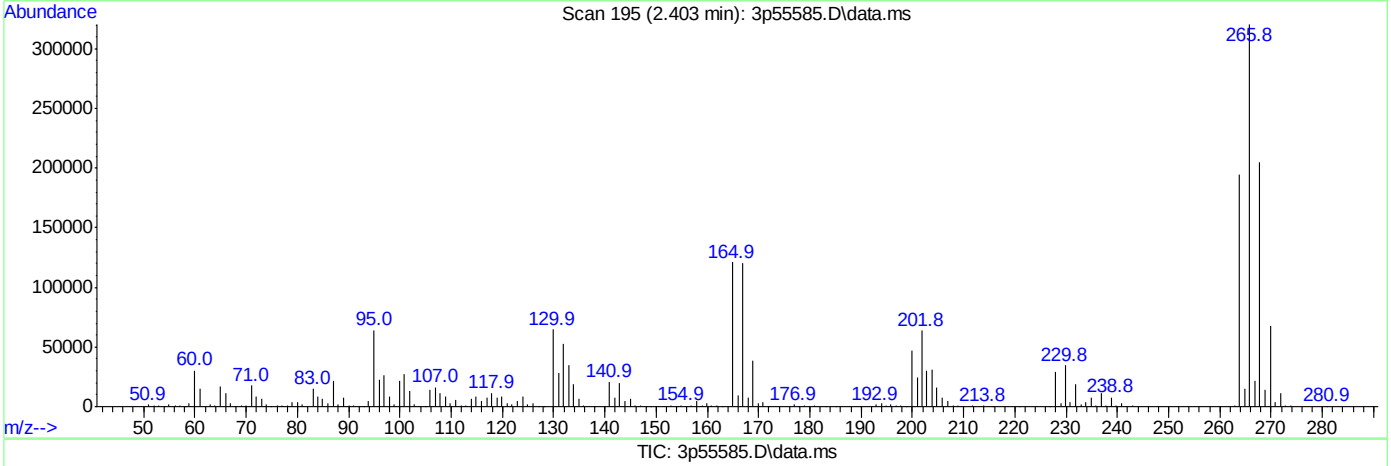
Ion	Exp%	Act%
184.00	100	100
183.00	0.00	11.60#
185.00	0.00	14.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55585.D
Acq On : 9 Aug 2016 2:26 pm
Operator : ashleyd
Sample : DFTPP
Misc : op95964a,e3p2546
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 14:32:04 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: 3p55585.D\data.ms

(1) Pentachlorophenol

2.403min (-0.028) 31.36

response 3147085

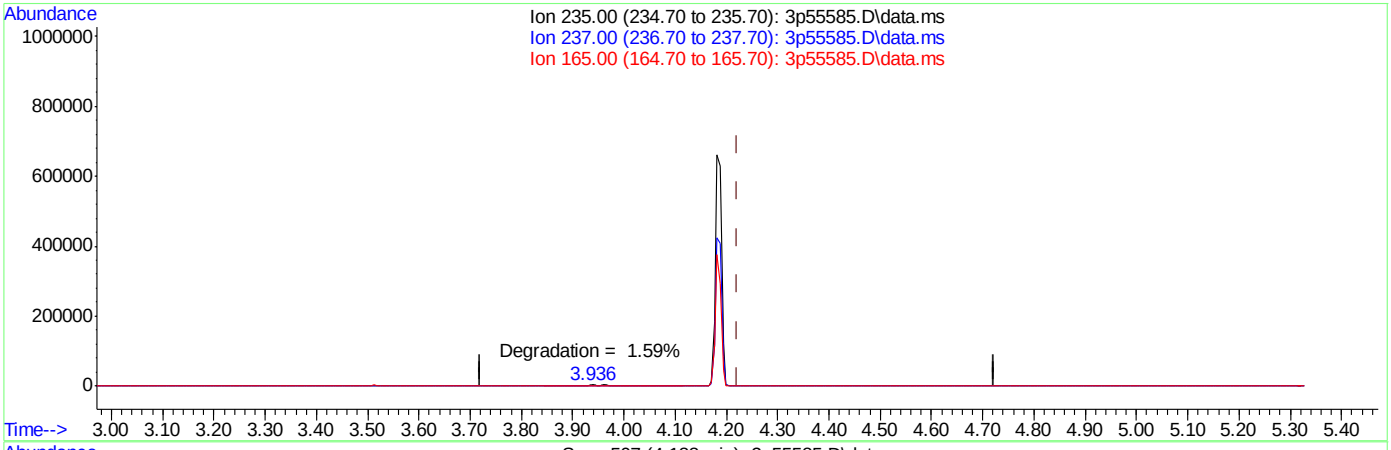
Ion	Exp%	Act%
266.00	100	100
264.00	0.00	61.06#
268.00	0.00	64.78#
0.00	0.00	0.00

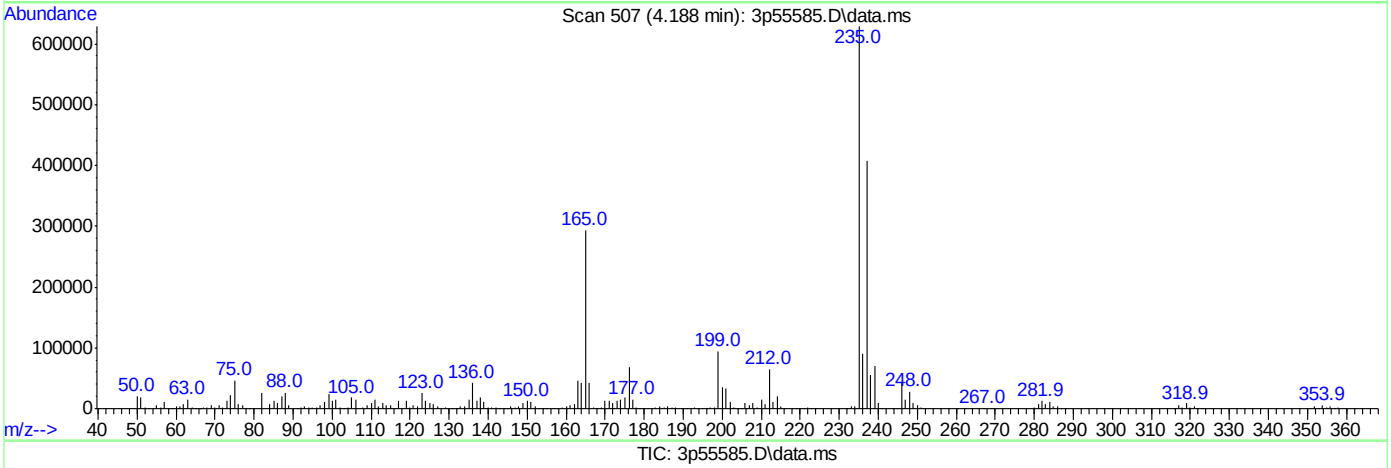
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55585.D
Acq On : 9 Aug 2016 2:26 pm
Operator : ashleyd
Sample : DFTPP
Misc : op95964a,e3p2546
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 09 14:32:04 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: 3p55585.D\data.ms

(3) PP-DDT

4.187min (-0.035) 32.81

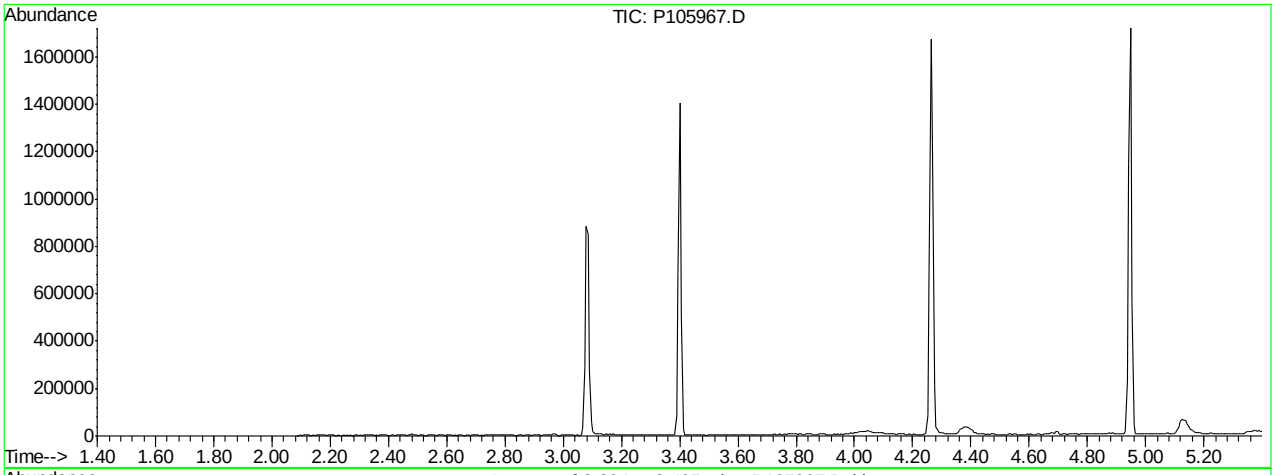
response 5546901

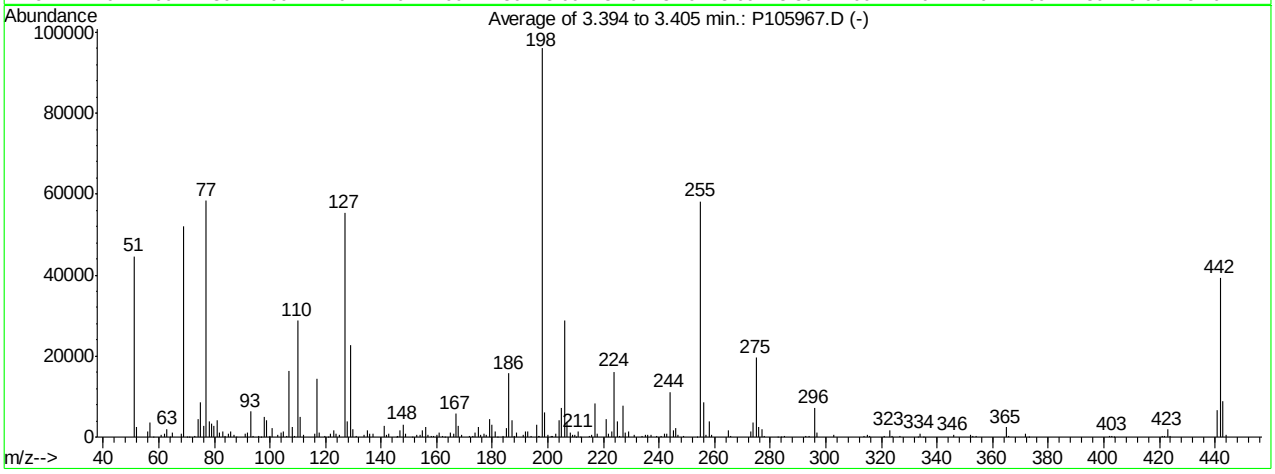
Ion	Exp%	Act%
235.00	100	100
237.00	0.00	64.89#
165.00	0.00	52.54#
0.00	0.00	0.00

SGS ACCUTEST JC24816

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4681\P105967.D Vial: 1
Acq On : 11 Jul 2016 8:37 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4681 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 230, 231, 232; Background Corrected with Scan 226

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.6	44729	PASS
68	69	0.00	2	1.9	971	PASS
69	198	0.00	100	54.3	52157	PASS
70	69	0.00	2	0.2	124	PASS
127	198	40	60	57.7	55354	PASS
197	198	0.00	1	0.2	195	PASS
198	198	100	100	100.0	95994	PASS
199	198	5	9	6.5	6194	PASS
275	198	10	30	20.5	19648	PASS
365	198	1	100	2.5	2397	PASS
441	443	0.10	100	73.8	6575	PASS
442	198	40	100	40.8	39203	PASS
443	442	17	23	22.7	8912	PASS

P105967.D DFTPPP.M Mon Jul 11 14:56:24 2016

Average of 3.394 to 3.405 min.: P105967.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.95	44729	68.90	52157	80.90	4068	93.90	318
52.00	2474	70.00	124	81.90	1220	95.95	322
55.90	1467	70.90	144	83.00	1285	96.90	140
56.90	3625	72.95	276	83.85	292	97.90	4911
57.90	120	73.95	4557	84.90	931	98.90	4289
60.95	535	74.90	8469	85.90	1283	99.85	399
61.95	802	76.00	2675	86.95	600	100.90	2114
63.00	1983	77.00	58400	87.80	119	102.90	642
64.10	136	78.00	3981	90.90	844	103.90	1025
65.00	1067	78.90	3310	91.95	1195	104.90	1339
67.90	971	79.90	2871	92.90	6332	106.00	317

Average of 3.394 to 3.405 min.: P105967.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
106.90	16478	121.90	919	135.90	712	152.85	635
107.90	2537	122.90	1536	136.95	967	153.85	591
109.00	179	123.85	866	140.90	2641	154.90	1717
109.90	28745	124.90	622	141.90	584	155.95	2438
110.90	4883	126.90	55354	142.90	832	157.00	556
111.85	512	127.90	3860	145.60	118	157.90	422
115.95	834	128.90	22600	145.90	279	158.85	416
116.90	14505	129.90	2034	146.90	1605	159.85	561
117.85	1002	131.00	255	147.90	3183	160.90	1127
119.90	167	133.90	480	148.80	734	161.90	271
120.90	141	134.90	1667	151.00	144	162.90	117

Average of 3.394 to 3.405 min.: P105967.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
164.90	983	177.85	540	190.90	500	201.40	284
165.90	957	178.90	4433	191.85	1508	202.90	874
166.90	5744	179.90	2932	192.90	1487	203.90	4241
167.90	2711	180.85	1414	193.80	176	204.90	7171
168.95	700	181.80	132	195.90	3104	205.90	28692
171.90	303	183.80	158	196.60	158	206.90	3726
172.85	423	184.90	2227	196.90	195	207.90	1016
173.90	1143	185.90	15716	197.85	95994	208.85	490
174.95	2375	186.90	4169	198.90	6194	209.85	551
175.95	552	187.85	363	199.85	519	210.10	120
176.85	931	188.85	1005	201.10	150	210.90	1341

Average of 3.394 to 3.405 min.: P105967.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
211.70	130	226.90	7777	242.90	898	258.90	506
214.85	341	227.80	1153	243.90	11131	264.90	1592
215.80	676	228.90	1416	245.00	1571	265.70	148
216.80	8249	230.95	594	245.85	2131	272.85	1531
217.90	891	233.85	332	246.85	657	273.85	3549
220.85	4567	234.90	548	248.80	263	274.90	19648
221.75	786	235.85	448	253.80	120	275.90	2604
222.85	1493	236.90	548	254.90	58154	276.85	1980
223.90	16193	238.90	225	255.90	8614	277.80	336
224.90	3880	240.90	173	256.90	668	282.80	141
225.90	296	241.90	971	257.90	3854	283.90	130

Average of 3.394 to 3.405 min.: P105967.D
dftpp
Modified:subtracted

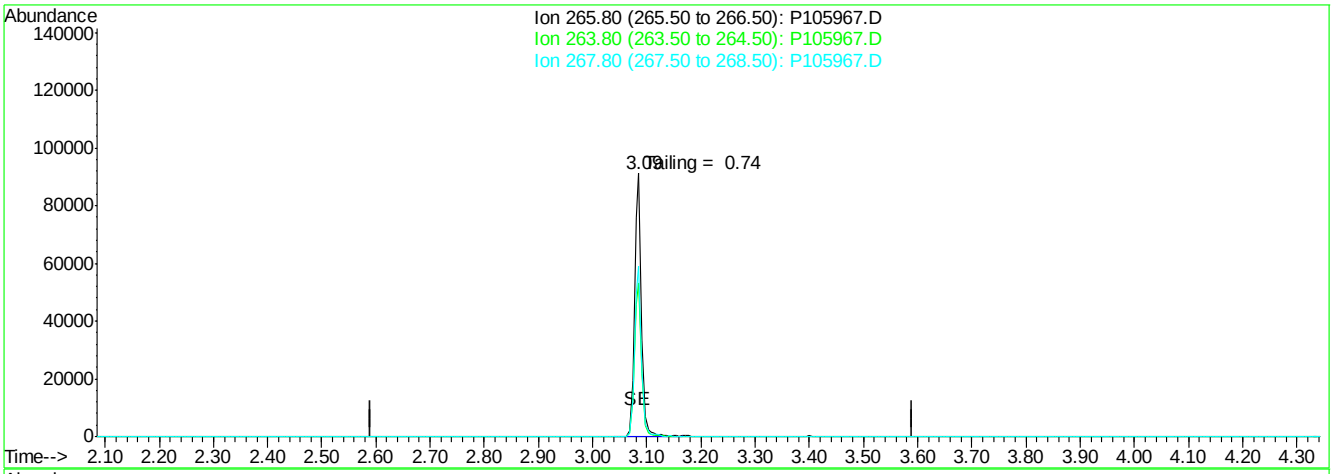
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
285.00	169	323.90	245	371.90	846	442.90	8912
292.80	370	326.80	312	372.90	146	443.85	630
293.90	209	333.00	129	401.90	207		
295.90	7093	333.85	915	402.90	409		

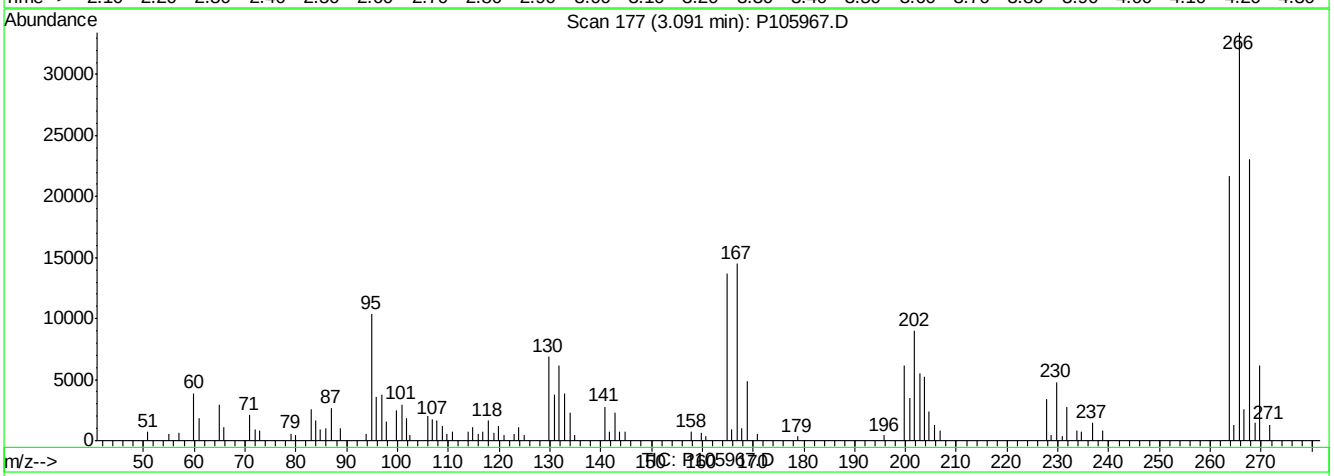
296.80	1075	334.90	130	403.80	124
302.80	602	345.85	488	420.85	365
313.80	224	351.95	459	421.80	156
314.85	654	352.90	374	422.85	1915
315.90	195	353.90	345	423.85	342
320.90	157	364.80	2397	440.90	6575
322.90	1718	365.85	391	441.90	39203

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105967.D Vial: 1
Acq On : 11 Jul 2016 8:37 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:43 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 292.79ppb

response 80959

Ion	Exp%	Act%
265.80	100	100
263.80	67.60	58.37
267.80	69.90	64.61
0.00	0.00	0.00

P105967.D DFTPPP.M Mon Jul 11 14:55:55 2016

7.5.10.1

7

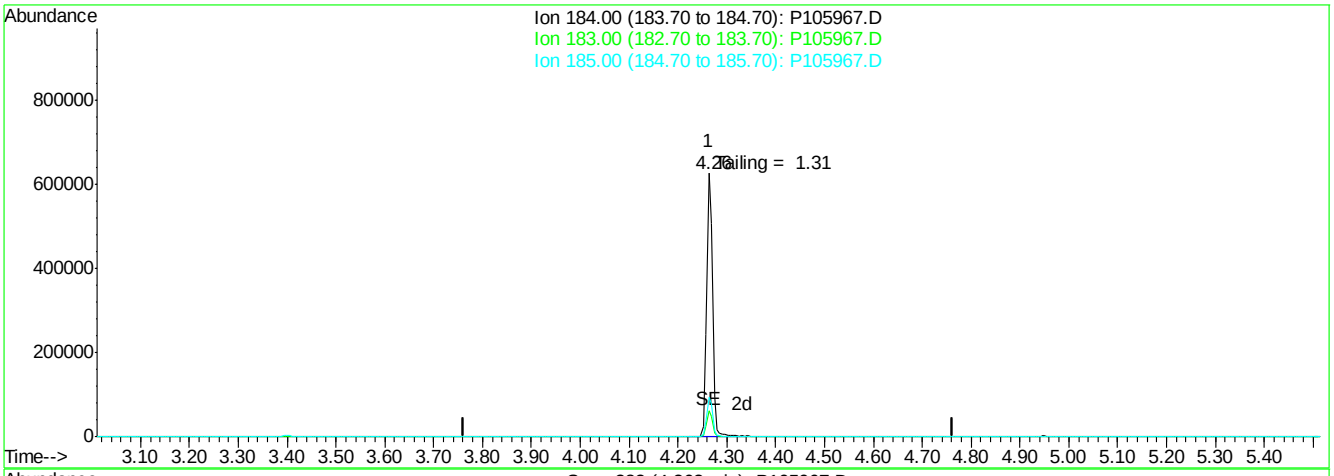
SGS ACCUTEST JC24816

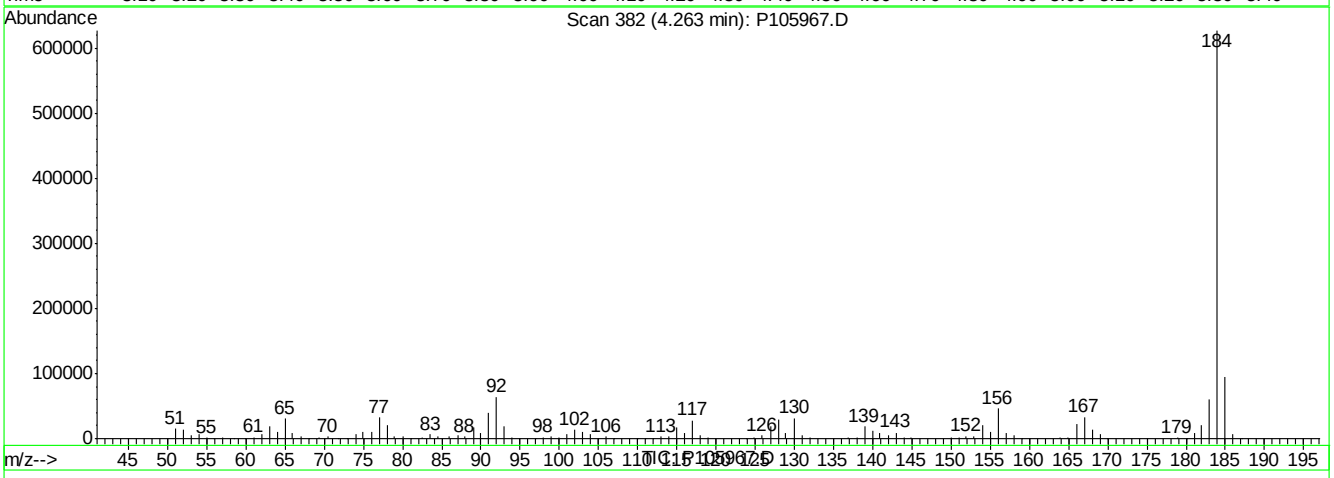
P105967.D edits: Pentachlorophenol

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105967.D Vial: 1
Acq On : 11 Jul 2016 8:37 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:43 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 186.15ppb

response 529164

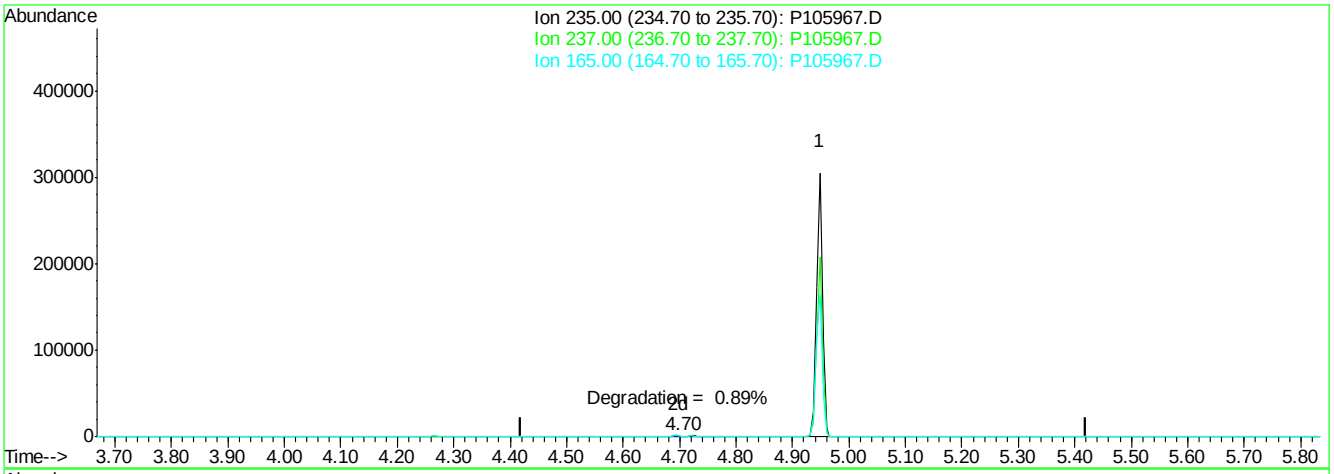
Ion	Exp%	Act%
184.00	100	100
183.00	10.20	9.64
185.00	13.60	14.98
0.00	0.00	0.00

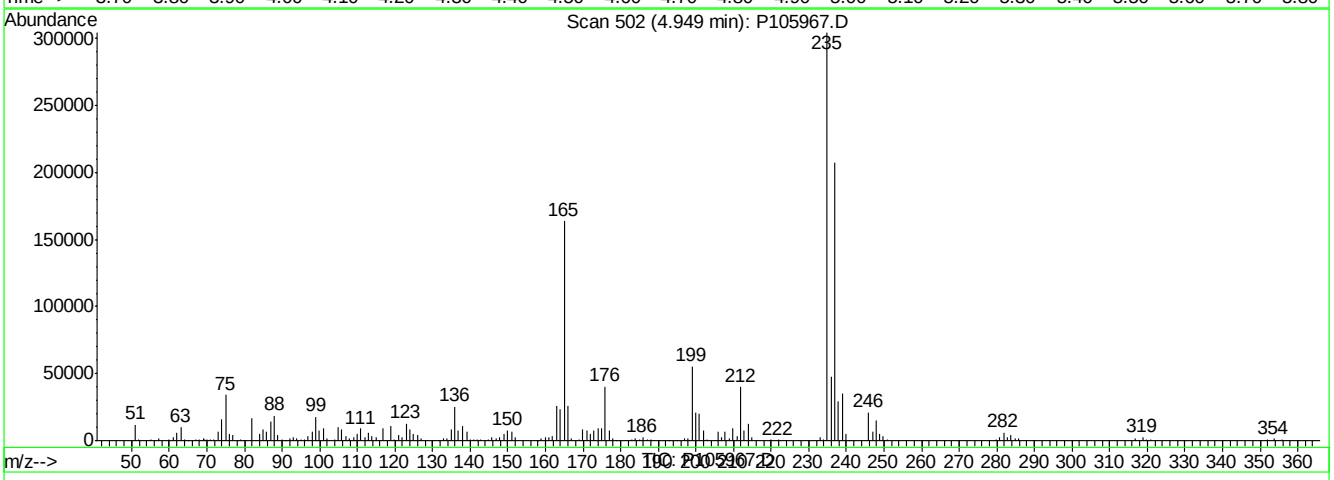
P105967.D DFTPPP.M Mon Jul 11 14:56:04 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105967.D Vial: 1
Acq On : 11 Jul 2016 8:37 am Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 8:43 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 166.13ppb

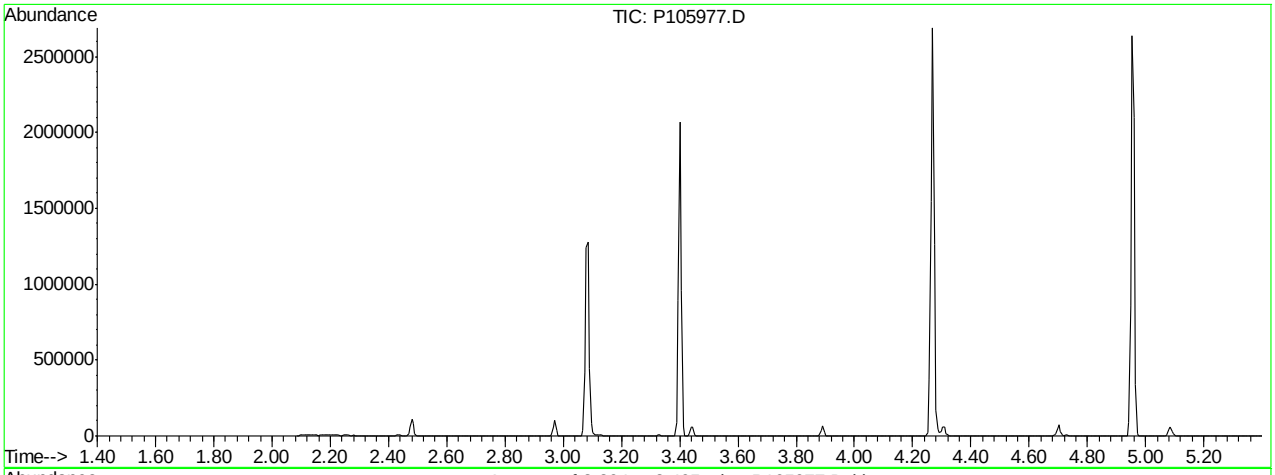
response 216016

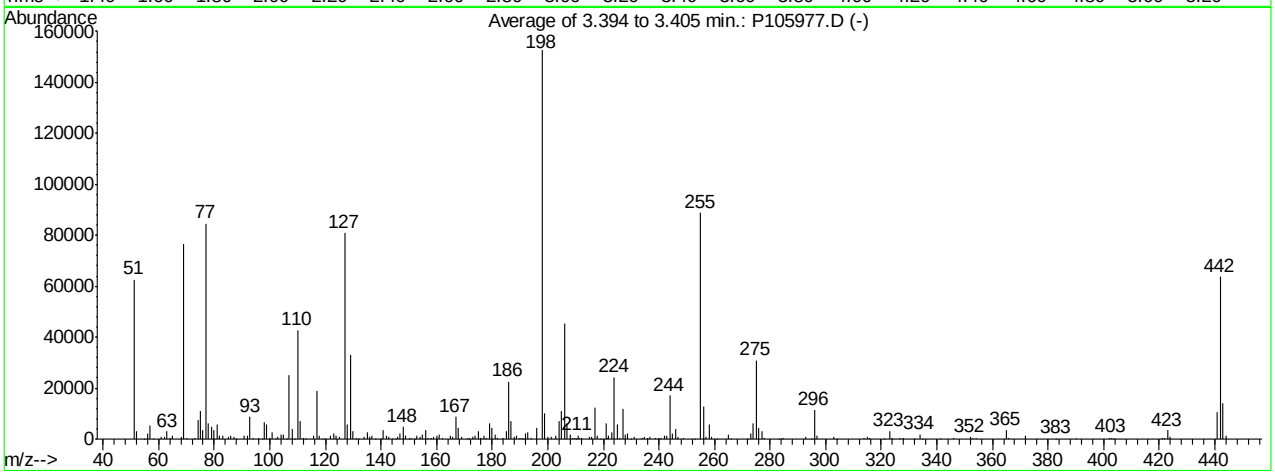
Ion	Exp%	Act%
235.00	100	100
237.00	55.80	66.38
165.00	51.00	56.01
0.00	0.00	0.00

P105967.D DFTPPP.M Mon Jul 11 14:56:13 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4682\P105977.D Vial: 1
Acq On : 11 Jul 2016 3:24 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4682 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 230, 231, 232; Background Corrected with Scan 226

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.0	62520	PASS
68	69	0.00	2	1.4	1082	PASS
69	198	0.00	100	50.1	76442	PASS
70	69	0.00	2	0.5	398	PASS
127	198	40	60	53.1	80920	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	152504	PASS
199	198	5	9	6.7	10247	PASS
275	198	10	30	20.2	30823	PASS
365	198	1	100	2.4	3617	PASS
441	443	0.10	100	75.0	10468	PASS
442	198	40	100	41.7	63599	PASS
443	442	17	23	22.0	13961	PASS

P105977.D DFTPPP.M Tue Jul 12 13:55:15 2016

Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	62520	68.00	1082	80.95	5927	95.95	437
52.00	3122	68.90	76442	81.90	1509	97.10	144
54.90	155	70.00	398	82.95	1267	97.90	6415
55.95	2164	72.95	647	84.90	959	98.90	5646
57.00	5139	74.00	7662	85.90	1333	99.95	414
57.90	164	75.00	11170	87.00	739	100.90	2776
60.90	902	76.00	3618	88.00	123	101.90	120
62.00	850	77.00	84512	90.90	1491	102.95	858
63.00	2891	78.00	6081	92.00	1272	103.90	1675
64.00	291	79.00	4788	92.90	8706	104.90	1670
65.00	1533	80.00	3754	93.90	674	106.00	131

Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
106.90	25086	119.90	149	133.90	975	145.85	803
107.90	3782	121.90	1492	134.90	2572	146.90	2270
109.00	132	122.90	2122	135.95	781	147.85	4781
109.90	42818	123.90	1325	136.90	1487	148.90	1253
110.90	6925	124.90	987	137.80	161	150.00	126
111.90	556	126.90	80920	139.90	189	151.00	383
112.90	174	127.90	5871	140.90	3731	151.90	203
115.90	1185	128.90	33165	141.90	1216	152.90	1284
116.90	18956	129.90	3011	142.85	875	153.90	1027
117.90	1411	130.95	541	143.90	137	154.95	1997
118.90	136	132.00	128	145.00	153	155.95	3398

Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.90	441	170.90	160	180.90	1904	191.85	2035
157.90	623	171.90	613	181.90	444	192.90	2604
158.90	705	172.90	1015	183.90	571	193.80	281
159.90	1233	173.90	1400	184.90	3017	195.90	4337
160.90	1768	174.90	3163	185.90	22633	197.90	152504
162.00	271	175.80	360	186.90	6966	198.90	10247
164.85	1328	176.00	577	187.90	775	199.95	861
165.90	1006	176.95	1376	188.90	1551	201.30	739
166.90	8683	177.90	426	189.90	254	202.85	1453
167.90	4563	178.90	6116	190.80	550	203.90	7109
168.90	834	179.90	4457	191.00	194	204.90	11128

Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
205.90	45400	216.85	12460	227.90	1722	241.90	1236
206.90	6261	217.90	1491	228.85	2075	242.90	1132
207.90	1745	218.80	116	230.00	116	243.90	17151
208.80	326	220.90	6064	230.90	908	244.90	2297
209.90	502	221.50	300	233.85	676	245.90	3894
210.10	140	221.85	1446	234.85	798	246.85	813
210.85	1466	222.90	2619	235.90	453	248.80	616
211.50	290	223.90	24200	236.90	911	252.90	211
212.00	249	224.90	5853	238.85	394	254.90	88824
214.85	690	225.90	348	239.85	272	255.90	12604
215.90	790	226.90	11699	240.85	506	256.90	995

Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
257.90	5682	277.95	426	314.85	885	345.85	514
258.90	751	283.00	217	315.90	485	351.90	729
260.90	125	283.90	131	320.90	165	352.90	492
264.90	1804	284.90	613	322.90	3180	353.90	594

265.80	188	292.85	907	323.85	430	364.85	3617
271.90	178	294.80	132	326.80	604	365.85	405
272.90	2390	295.90	11293	327.80	245	371.90	1269
273.90	6067	296.90	1490	331.90	155	382.80	146
274.90	30823	302.90	1038	333.90	1822	389.80	139
275.90	4328	303.90	147	334.90	178	401.90	475
276.90	2976	313.90	422	341.00	151	402.80	666

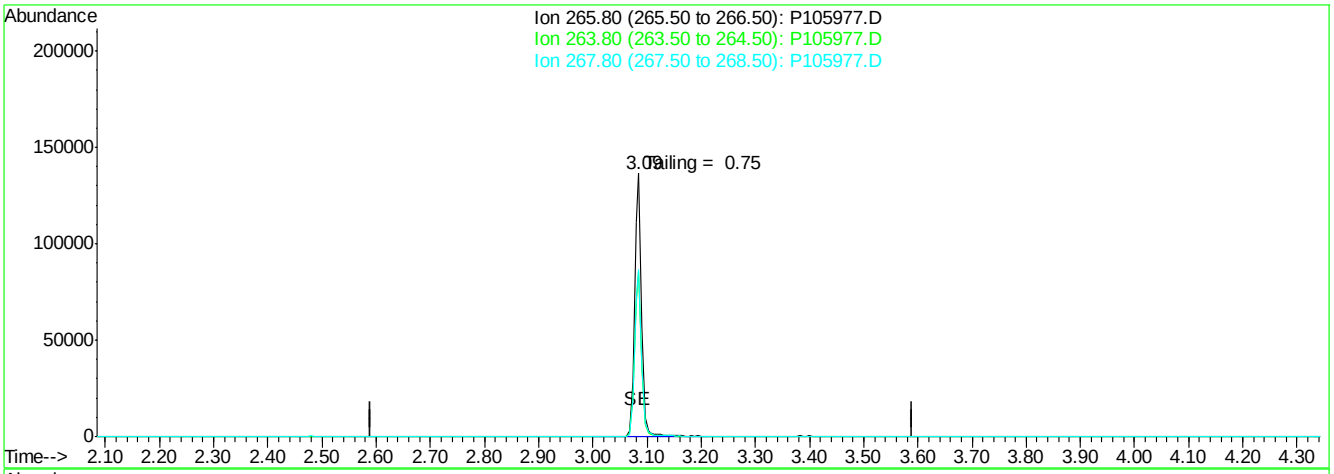
Average of 3.394 to 3.405 min.: P105977.D
dftpp
Modified:subtracted

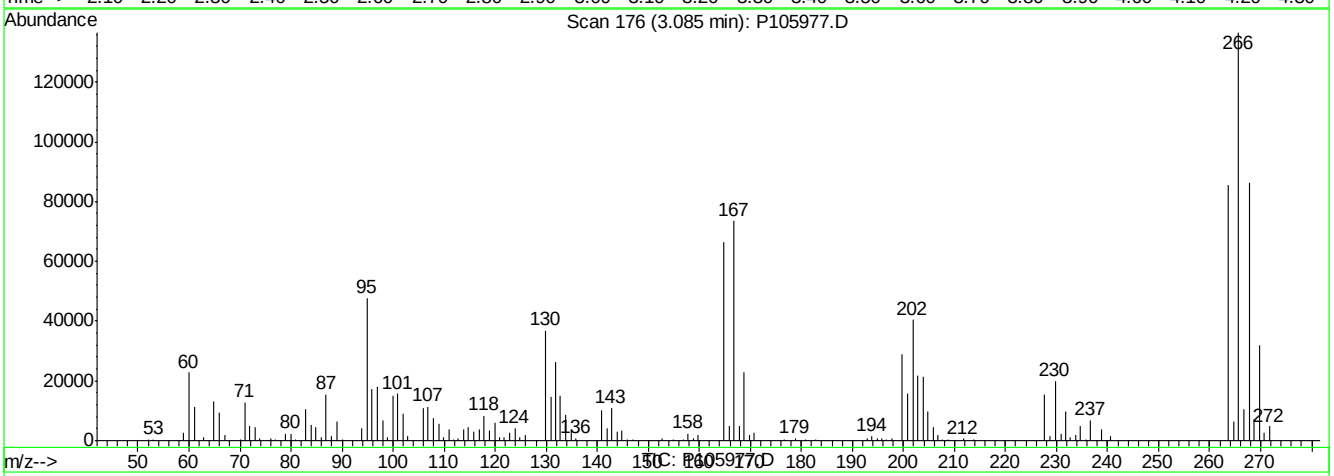
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
403.90	162						
420.85	450						
421.90	341						
422.90	3436						
423.90	738						
440.90	10468						
441.90	63599						
442.90	13961						
443.90	1429						

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105977.D Vial: 1
Acq On : 11 Jul 2016 3:24 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:30 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 439.11ppb

response 121417

Ion	Exp%	Act%
265.80	100	100
263.80	67.60	62.68
267.80	69.90	63.17
0.00	0.00	0.00

P105977.D DFTPPP.M Tue Jul 12 13:54:59 2016

7.5.11.1

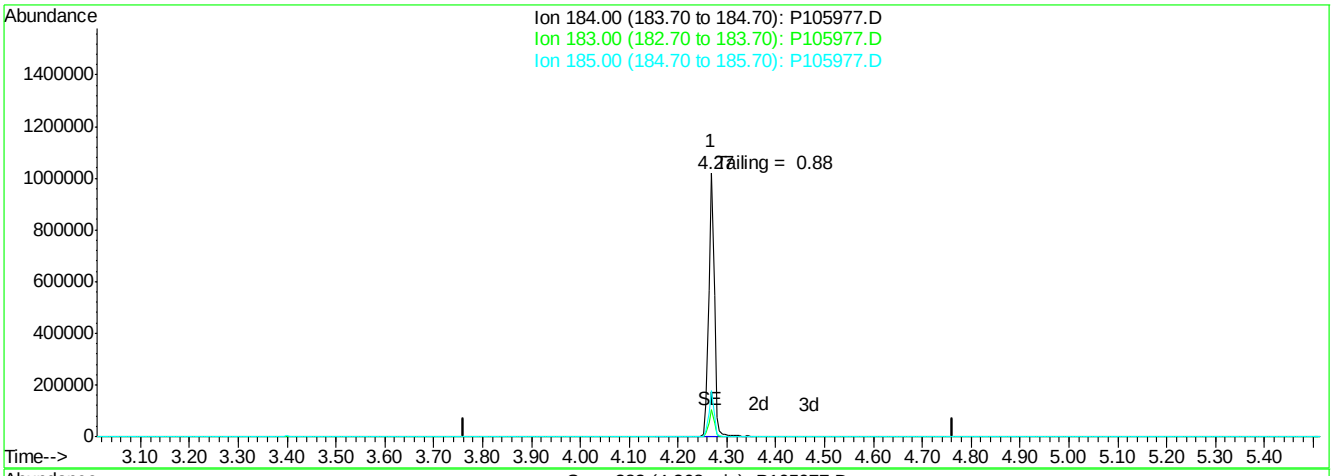
7

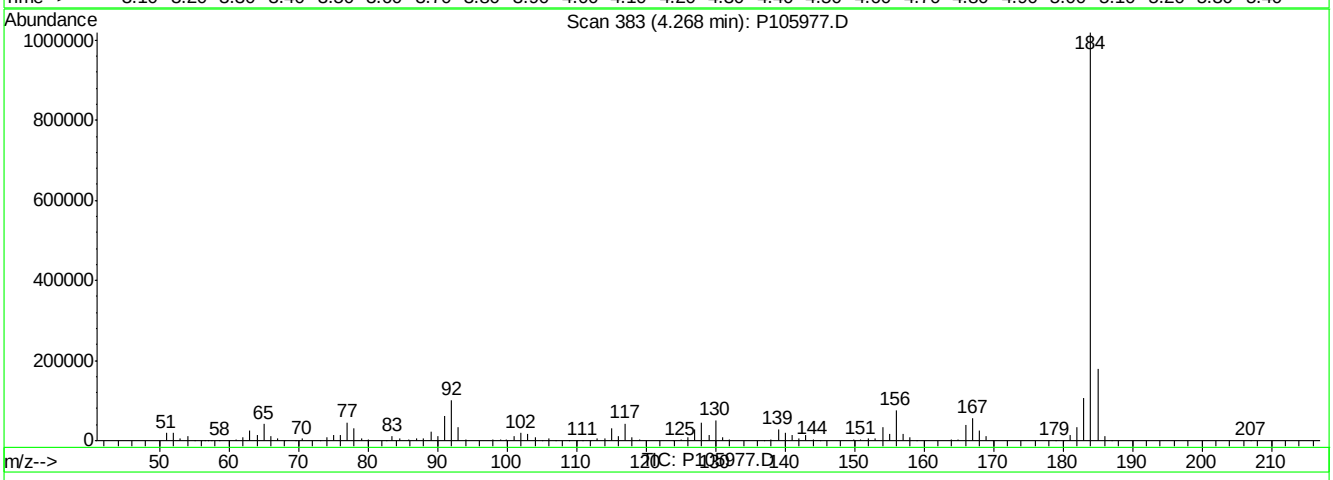
SGS ACCUTEST JC24816

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105977.D Vial: 1
Acq On : 11 Jul 2016 3:24 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:30 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)

4.27min 290.32ppb

response 825274

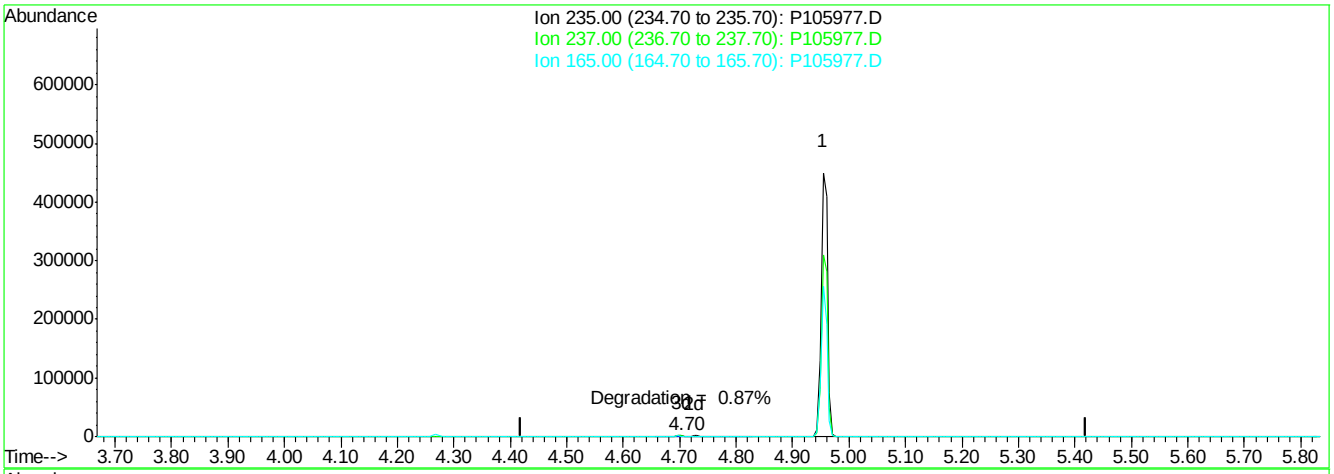
Ion	Exp%	Act%
184.00	100	100
183.00	10.20	9.79
185.00	13.60	16.07
0.00	0.00	0.00

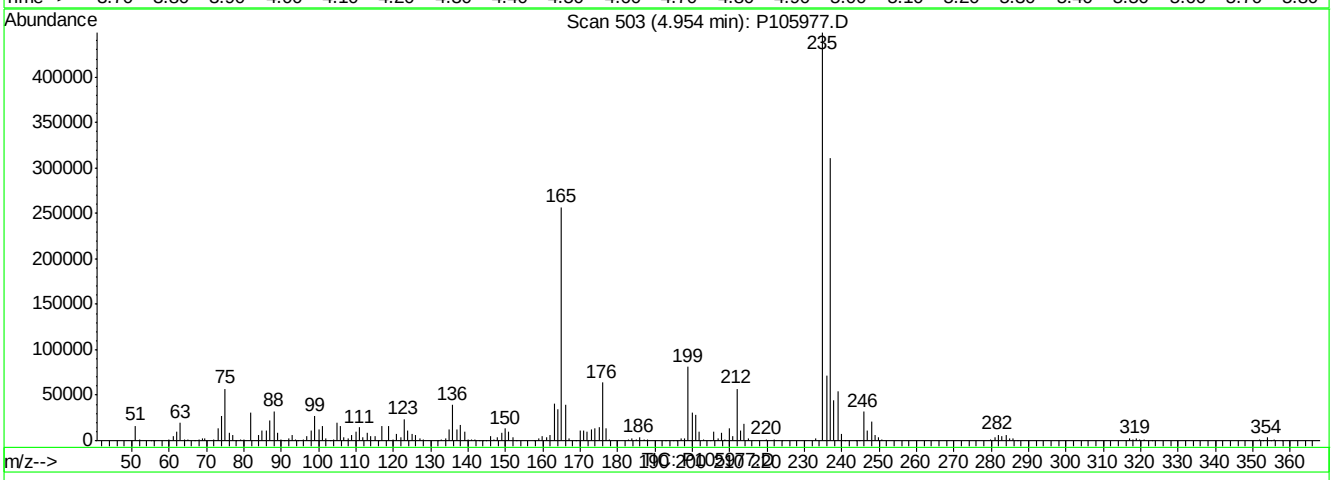
P105977.D DFTPPP.M Tue Jul 12 13:55:04 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105977.D Vial: 1
Acq On : 11 Jul 2016 3:24 pm Operator: brittanp
Sample : dftpp Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 11 15:30 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 285.01ppb

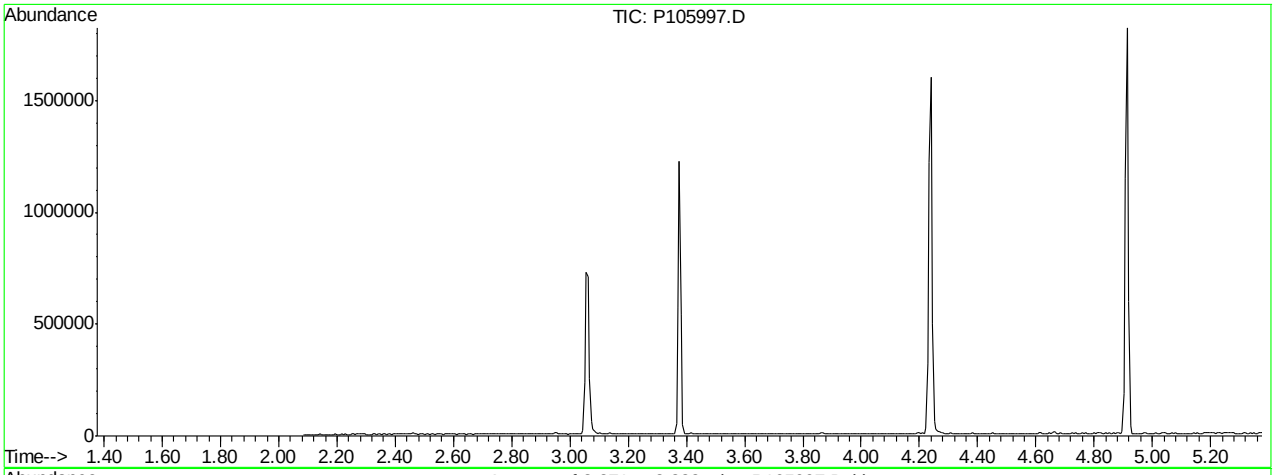
response 370593

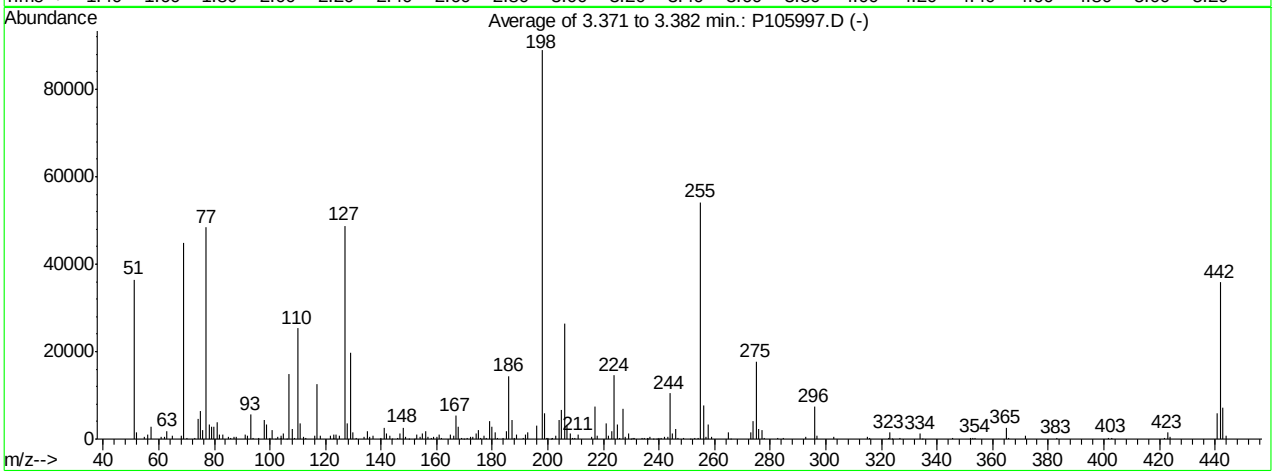
Ion	Exp%	Act%
235.00	100	100
237.00	55.80	67.61
165.00	51.00	52.76
0.00	0.00	0.00

P105977.D DFTPPP.M Tue Jul 12 13:55:11 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4683\P105997.D Vial: 1
Acq On : 12 Jul 2016 4:19 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4683 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 226, 227, 228; 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	41.0	36464	PASS
68	69	0.00	2	1.7	770	PASS
69	198	0.00	100	50.5	44922	PASS
70	69	0.00	2	0.4	172	PASS
127	198	40	60	54.9	48794	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	88893	PASS
199	198	5	9	6.6	5860	PASS
275	198	10	30	19.9	17662	PASS
365	198	1	100	2.8	2500	PASS
441	443	0.10	100	82.0	6000	PASS
442	198	40	100	40.4	35880	PASS
443	442	17	23	20.4	7315	PASS

P105997.D DFTPPP.M Tue Jul 12 17:20:51 2016

Average of 3.371 to 3.382 min.: P105997.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.95	36464	70.00	172	82.95	921	98.90	3387
52.00	1615	73.00	229	84.90	449	99.90	181
54.95	575	74.00	4728	85.90	222	100.95	1943
55.95	1145	75.00	6447	86.90	490	102.00	139
57.00	2933	75.95	2172	87.85	632	102.90	418
61.00	456	77.00	48349	90.90	1030	103.80	357
61.95	502	78.00	3365	91.90	793	103.95	806
63.00	1893	78.90	2747	92.90	5594	104.85	1386
65.00	801	79.90	2719	93.95	344	105.90	137
67.95	770	80.95	3764	95.90	157	106.90	14924
68.90	44922	81.95	990	97.90	4393	108.00	2278

Average of 3.371 to 3.382 min.: P105997.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
108.90	372	123.90	914	139.80	182	152.90	998
109.90	25376	124.90	727	140.90	2592	153.90	618
110.90	3531	126.90	48794	141.90	1170	154.90	1358
111.90	455	127.90	3667	142.95	730	155.95	1915
112.90	213	128.90	19638	143.80	127	156.95	460
115.90	841	129.90	1596	145.85	356	157.90	339
116.90	12529	130.90	377	146.90	1223	158.85	437
117.90	832	133.85	545	147.90	2619	159.85	614
121.90	837	134.95	1765	148.95	496	160.90	1115
122.80	383	135.90	516	149.90	119	161.70	149
122.95	981	136.95	883	151.80	126	164.90	1014

Average of 3.371 to 3.382 min.: P105997.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
165.90	707	176.90	852	188.85	929	202.85	701
166.90	5366	177.80	189	190.90	359	203.90	4355
167.90	2776	178.90	4076	191.90	1134	204.90	6657
168.90	393	179.90	2737	192.90	1559	205.90	26368
169.90	123	180.90	1508	195.85	3073	206.95	3152
170.90	143	181.80	193	197.90	88893	207.85	1225
171.95	434	184.00	145	198.90	5860	208.80	176
172.90	473	184.90	1761	199.70	309	209.80	232
174.00	1178	185.90	14464	199.90	260	210.90	992
174.90	2073	186.90	4261	201.30	134	215.90	584
175.85	288	187.90	320	201.60	247	216.85	7535

Average of 3.371 to 3.382 min.: P105997.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
217.85	868	230.70	145	241.85	638	255.90	7762
220.90	3548	230.90	214	242.95	493	256.80	560
221.90	816	233.80	245	243.90	10507	257.80	3418
222.85	1750	234.85	395	244.90	1292	258.80	421
223.90	14523	235.80	130	245.85	2332	264.85	1486
224.90	3390	236.00	225	246.80	206	265.80	132
225.85	327	236.85	527	248.80	337	272.85	1579
226.90	6830	237.90	119	251.00	119	273.85	4005
227.90	635	238.90	119	252.80	141	274.90	17662
228.85	1383	239.90	142	253.90	143	275.90	2368
229.90	139	240.90	230	254.90	54178	276.85	2118

Average of 3.371 to 3.382 min.: P105997.D
dftpp
Modified:subtracted

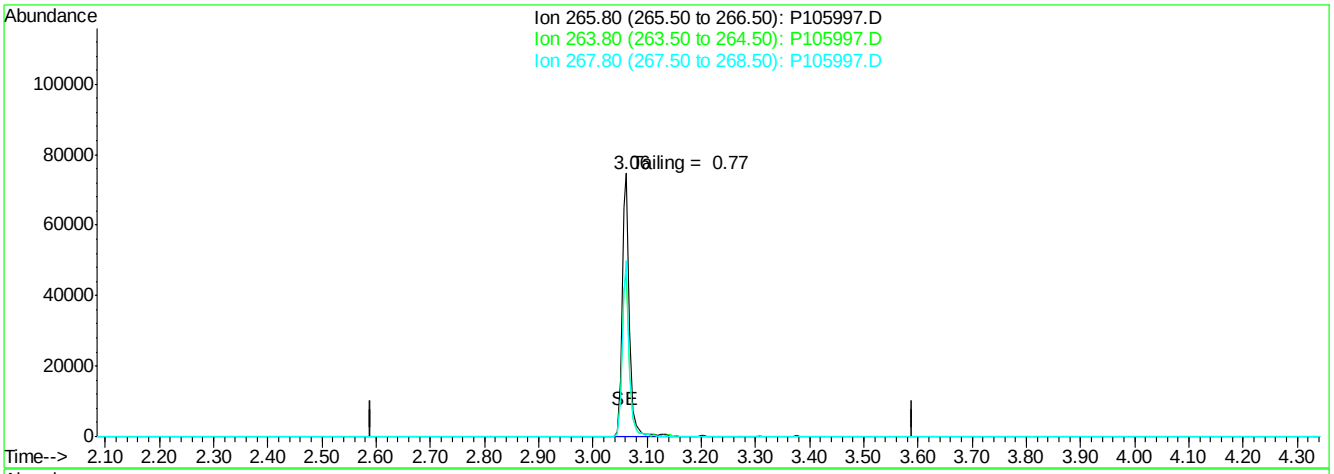
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.00	172	323.80	121	382.90	208		
282.80	389	326.80	208	401.80	183		
284.85	380	333.90	1273	402.85	291		
292.85	437	334.80	121	421.80	142		

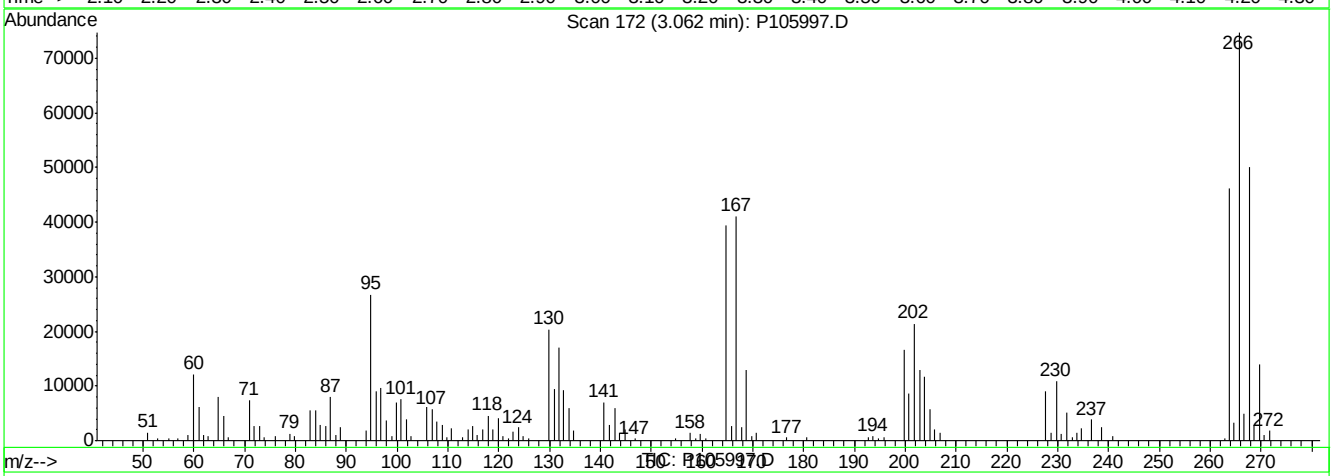
295.90	7397	345.70	154	422.90	1475
296.85	824	351.90	334	423.85	481
302.90	612	352.90	181	440.90	6000
314.80	534	353.80	340	441.90	35880
315.90	195	364.80	2500	442.90	7315
322.70	227	365.80	161	443.85	749
322.90	1500	371.85	748		

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105997.D Vial: 1
Acq On : 12 Jul 2016 4:19 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 16:25 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)

3.06min 253.00ppb

response 69958

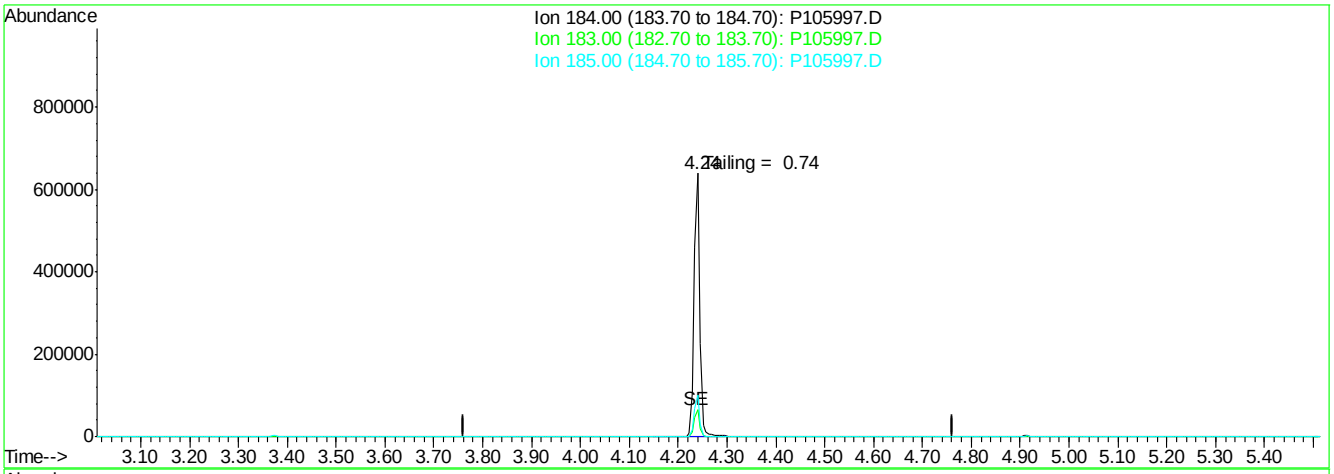
Ion	Exp%	Act%
265.80	100	100
263.80	67.60	61.91
267.80	69.90	67.26
0.00	0.00	0.00

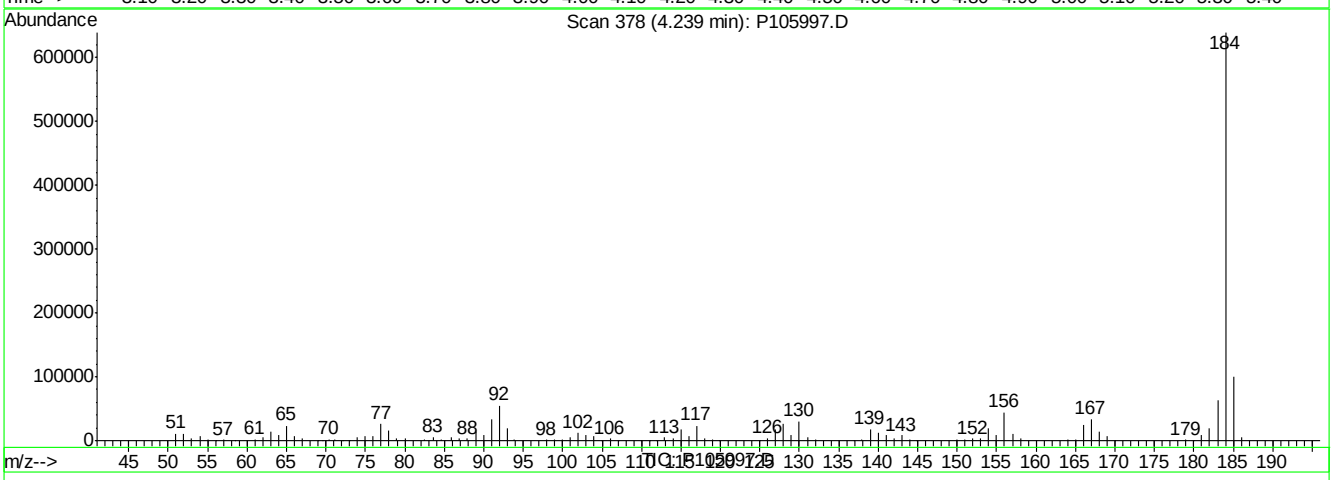
P105997.D DFTPPP.M Tue Jul 12 17:20:59 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105997.D Vial: 1
Acq On : 12 Jul 2016 4:19 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 16:25 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)

4.24min 181.67ppb

response 516407

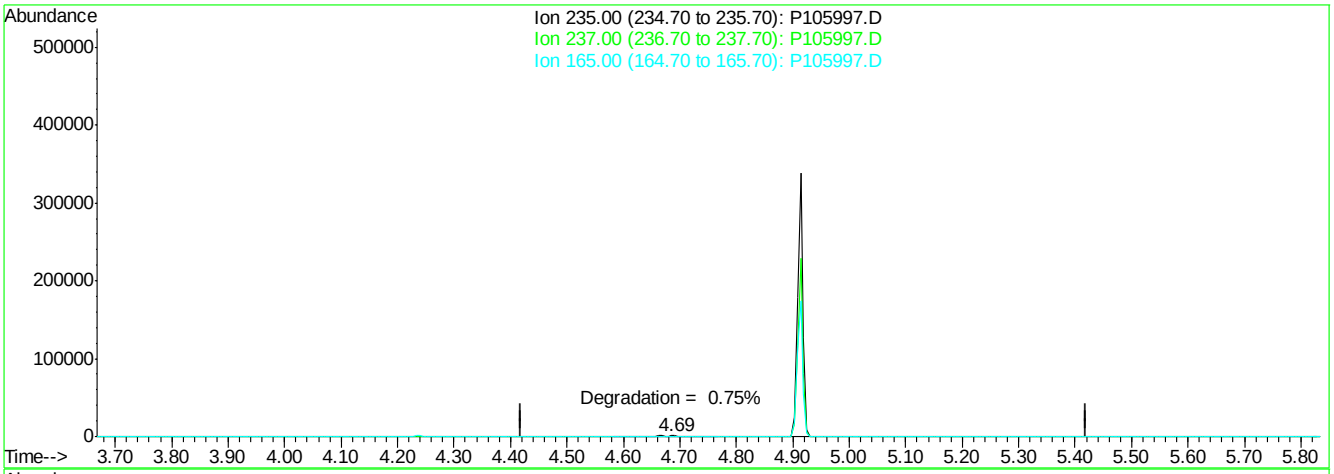
Ion	Exp%	Act%
184.00	100	100
183.00	10.20	9.58
185.00	13.60	14.61
0.00	0.00	0.00

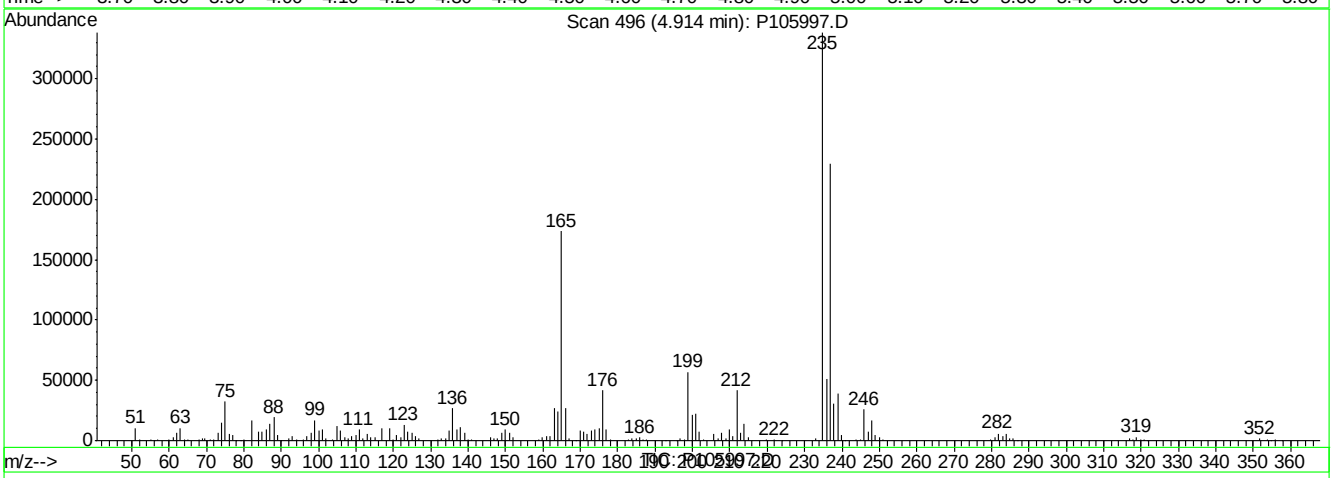
P105997.D DFTPPP.M Tue Jul 12 17:21:04 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105997.D Vial: 1
Acq On : 12 Jul 2016 4:19 pm Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 12 16:25 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

4.91min 178.80ppb

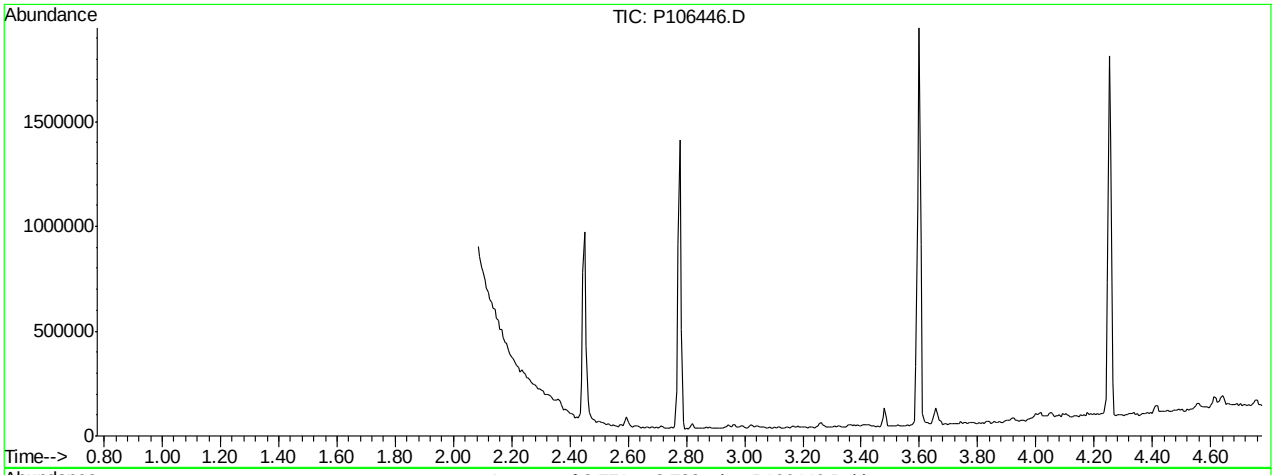
response 232494

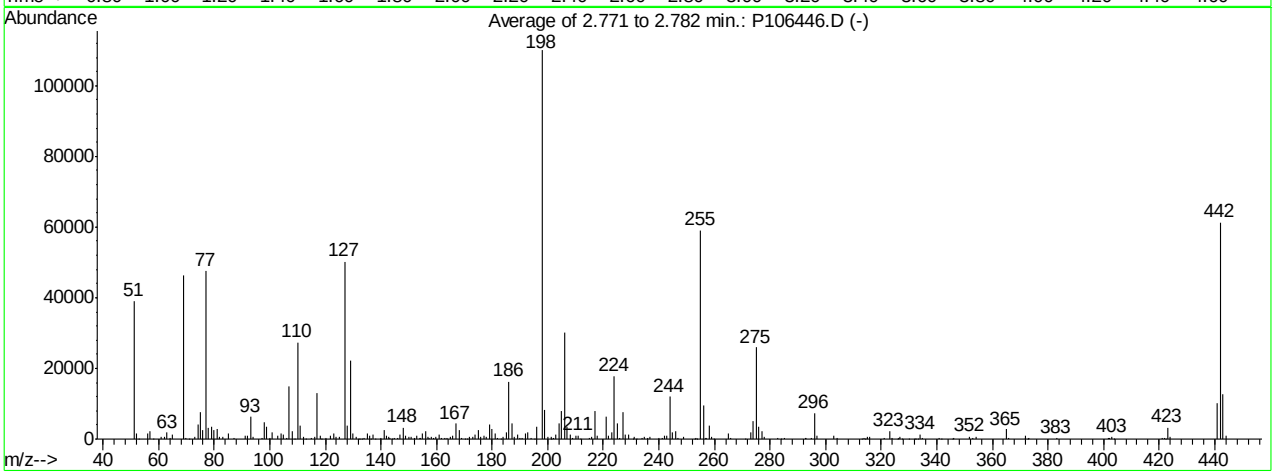
Ion	Exp%	Act%
235.00	100	100
237.00	55.80	66.12
165.00	51.00	53.81
0.00	0.00	0.00

P105997.D DFTPPP.M Tue Jul 12 17:21:10 2016

DFTPP

Data File : C:\MSDCHEM\1\DATA\EP4706\P106446.D Vial: 1
Acq On : 29 Jul 2016 8:57 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op95516,ep4706 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 121, 122, 123; Background Corrected with Scan 116

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.5	39090	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.2	46430	PASS
70	69	0.00	2	1.0	482	PASS
127	198	40	60	45.6	50136	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	109970	PASS
199	198	5	9	7.4	8102	PASS
275	198	10	30	23.6	25924	PASS
365	198	1	100	2.6	2827	PASS
441	443	0.10	100	80.0	10098	PASS
442	198	40	100	55.8	61328	PASS
443	442	17	23	20.6	12617	PASS

P106446.D DFTPPP.M Fri Jul 29 12:32:41 2016

Average of 2.771 to 2.782 min.: P106446.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
51.00	39090	68.95	46430	80.95	2952	98.90	3485
52.00	1599	69.95	482	81.95	554	99.95	371
52.80	125	71.00	5	83.00	576	101.00	1842
55.95	1583	72.95	647	85.00	1492	102.90	849
57.00	2374	74.00	4243	87.00	210	103.90	1474
58.00	141	75.00	7753	91.00	806	104.95	1416
60.95	601	76.00	2415	92.00	859	106.00	257
61.95	502	77.00	47582	93.00	6255	107.00	14840
63.00	1793	78.00	3270	94.00	699	108.00	2309
64.05	306	79.00	3380	97.05	486	109.00	132
65.00	1150	79.95	2635	98.00	4925	110.00	27323

Average of 2.771 to 2.782 min.: P106446.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
110.95	3897	123.95	735	135.00	1751	144.95	271
111.95	552	124.95	721	135.90	848	145.85	485
113.00	128	127.00	50136	136.20	129	146.90	1247
115.00	410	128.00	3891	136.95	1124	147.95	3336
116.00	653	128.95	22326	137.80	167	149.00	839
116.90	12984	130.00	1716	140.00	208	150.10	510
118.00	958	130.95	515	141.00	2567	151.00	552
118.70	126	131.70	138	142.00	1091	151.85	419
120.00	183	132.10	120	142.80	491	153.00	862
121.95	1111	133.10	162	143.00	372	153.90	262
123.00	1571	133.90	457	143.90	126	154.10	258

Average of 2.771 to 2.782 min.: P106446.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.90	1485	164.90	621	175.95	646	187.00	4561
156.00	2349	165.95	959	176.85	996	188.05	530
156.90	514	166.90	4439	178.05	631	188.95	1301
157.20	220	168.00	2543	178.90	4013	189.90	202
157.95	771	168.95	465	180.00	2881	190.95	327
158.90	416	170.10	141	180.95	1490	192.00	1514
159.90	720	171.10	117	181.90	188	192.95	1972
161.00	1426	171.90	645	183.00	170	194.00	386
161.75	339	172.95	567	184.00	494	195.10	138
163.05	463	174.00	1283	184.95	1904	195.95	3438
163.85	462	174.95	2448	186.00	16254	197.90	109970

Average of 2.771 to 2.782 min.: P106446.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
198.90	8102	209.00	461	224.00	17903	235.90	304
199.95	528	210.05	868	224.95	4357	236.90	630
201.10	118	210.95	1061	225.95	302	239.90	195
201.40	675	211.70	167	226.95	7565	241.00	240
201.90	264	215.05	310	227.95	1168	241.90	1000
202.95	1234	215.95	661	228.95	1422	242.95	951
204.00	4488	216.90	7819	230.80	147	244.00	12007
205.00	8073	217.90	1107	231.05	543	245.00	1875
206.00	30031	221.00	6386	231.90	143	245.95	2370
206.95	3535	221.85	1050	233.85	266	246.90	445
207.95	1242	223.00	1776	234.90	672	248.85	530

Average of 2.771 to 2.782 min.: P106446.D
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
252.70	117	265.90	372	292.80	174	315.00	177
253.10	323	271.00	120	293.00	460	315.95	621
253.70	145	272.90	1775	294.90	176	320.90	226
255.00	59085	273.95	5086	295.95	7387	322.95	2364

255.95	9406	274.90	25924	296.90	908	323.95	460
256.85	406	276.00	3424	303.00	875	325.70	126
257.10	422	276.95	2274	303.95	351	326.15	391
257.95	3680	277.85	527	313.00	128	326.90	532
259.00	582	282.90	179	313.90	175	327.70	140
259.90	157	283.80	126	314.20	154	330.00	122
265.00	1608	285.10	176	314.80	680	331.90	141

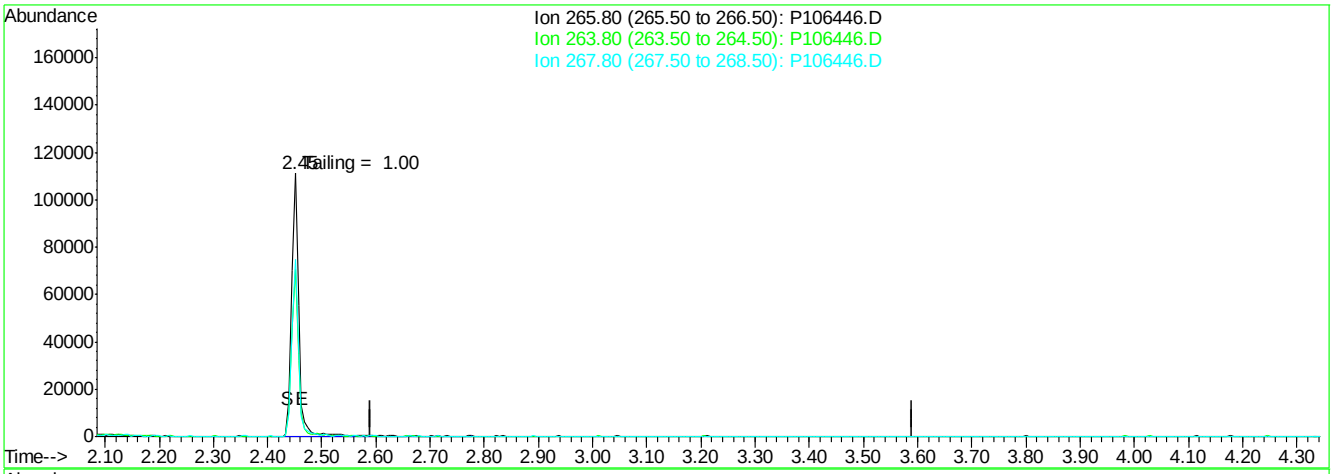
Average of 2.771 to 2.782 min.: P106446.D
dftpp
Modified:subtracted

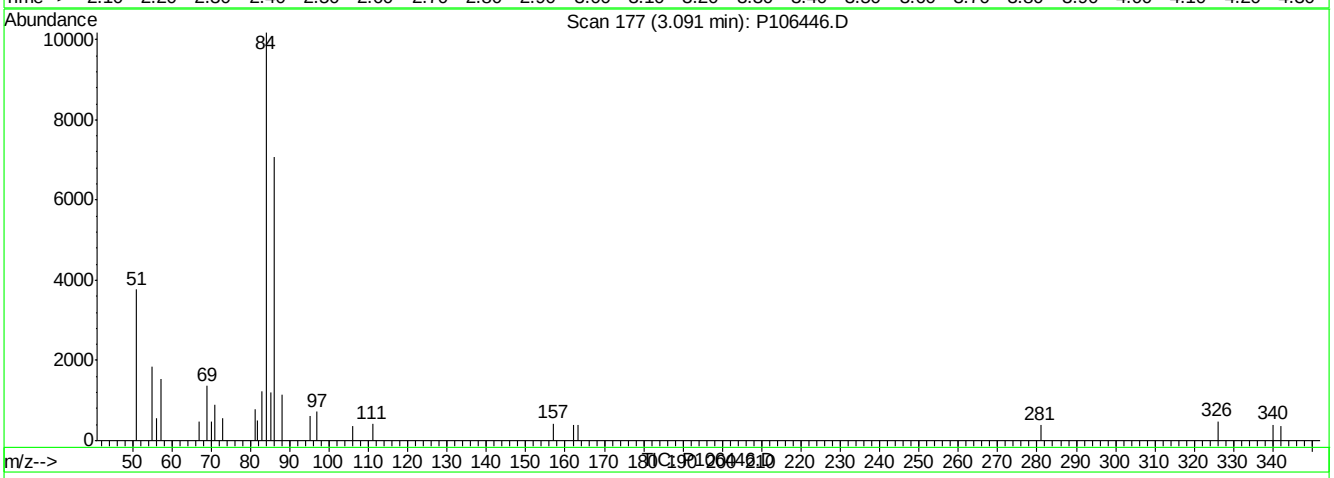
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
332.20	121	364.90	2827	420.90	423		
333.10	132	365.90	185	421.90	333		
334.00	1332	371.80	263	422.10	166		
334.90	332	372.00	927	423.00	3265		
340.95	402	372.80	122	423.95	563		
341.80	127	372.95	344	440.95	10098		
345.80	128	383.00	186	441.95	61328		
346.00	193	401.70	185	443.00	12617		
351.90	745	402.05	345	443.95	1047		
352.90	301	402.95	547				
353.95	692	403.90	126				

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4706\P106446.D Vial: 1
Acq On : 29 Jul 2016 8:57 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op95516,ep4706 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 29 9:03 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

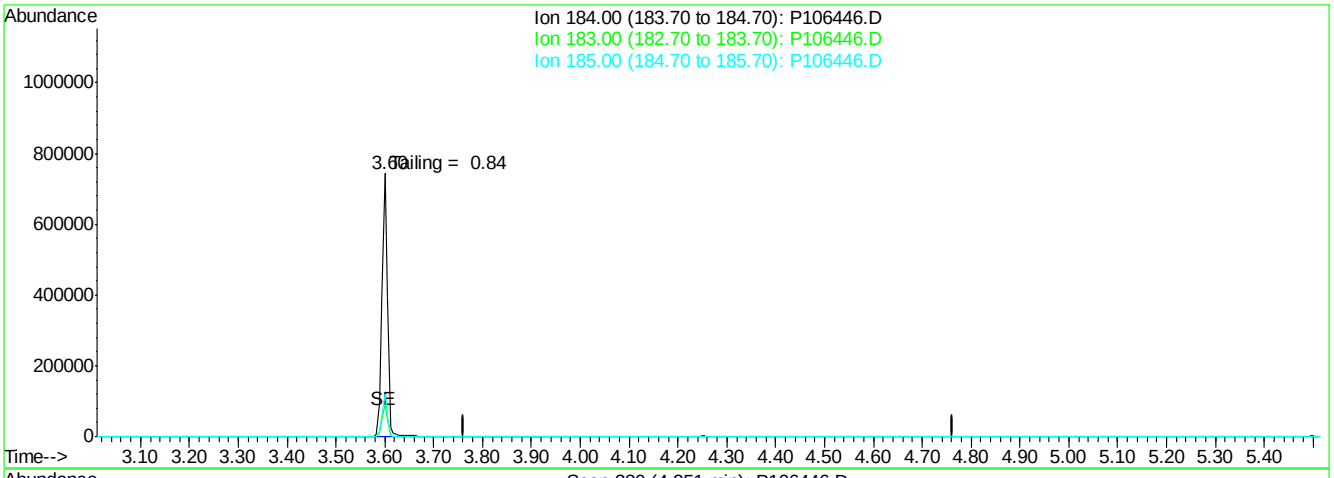
Ion	Exp%	Act%
265.80	100	0.00
263.80	67.60	0.00#
267.80	69.90	0.00#
0.00	0.00	0.00

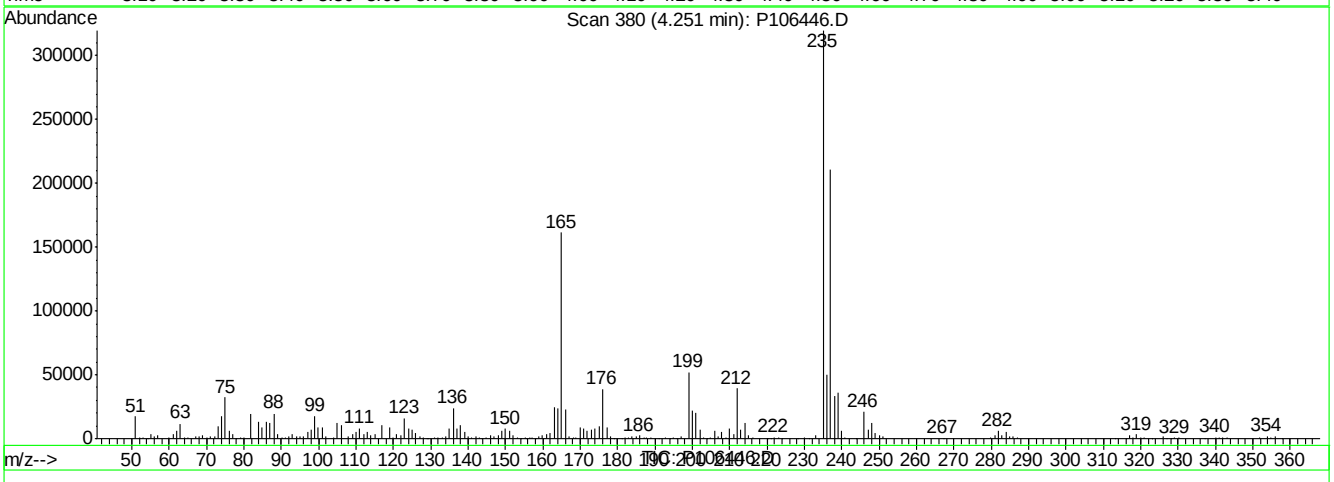
P106446.D DFTPPP.M Fri Jul 29 12:31:50 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4706\P106446.D Vial: 1
Acq On : 29 Jul 2016 8:57 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op95516,ep4706 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 29 9:03 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)

4.25min 0.62ppb

response 1760

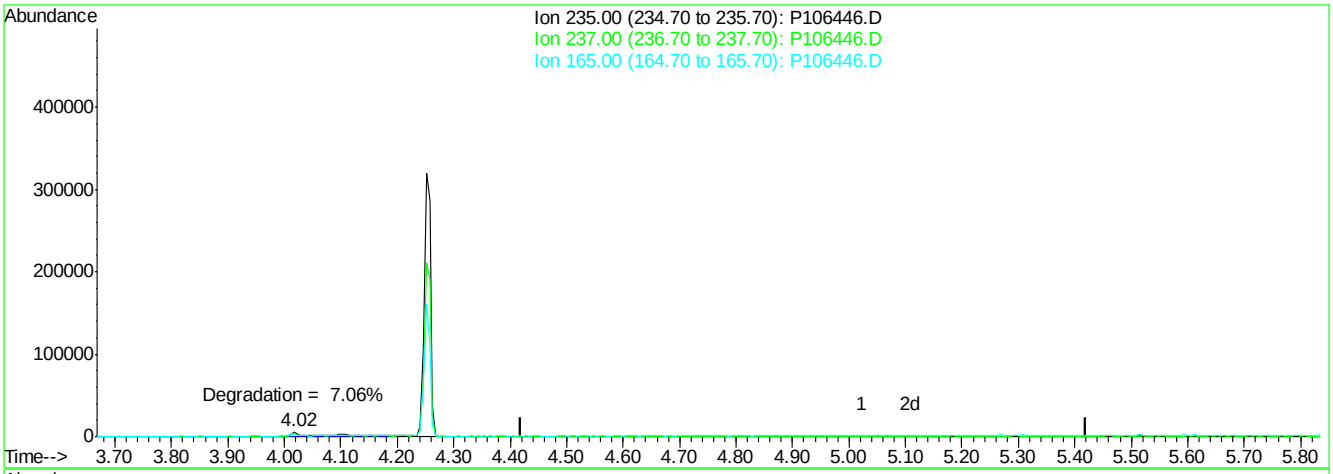
Ion	Exp%	Act%
184.00	100	100
183.00	10.20	0.00
185.00	13.60	90.23#
0.00	0.00	0.00

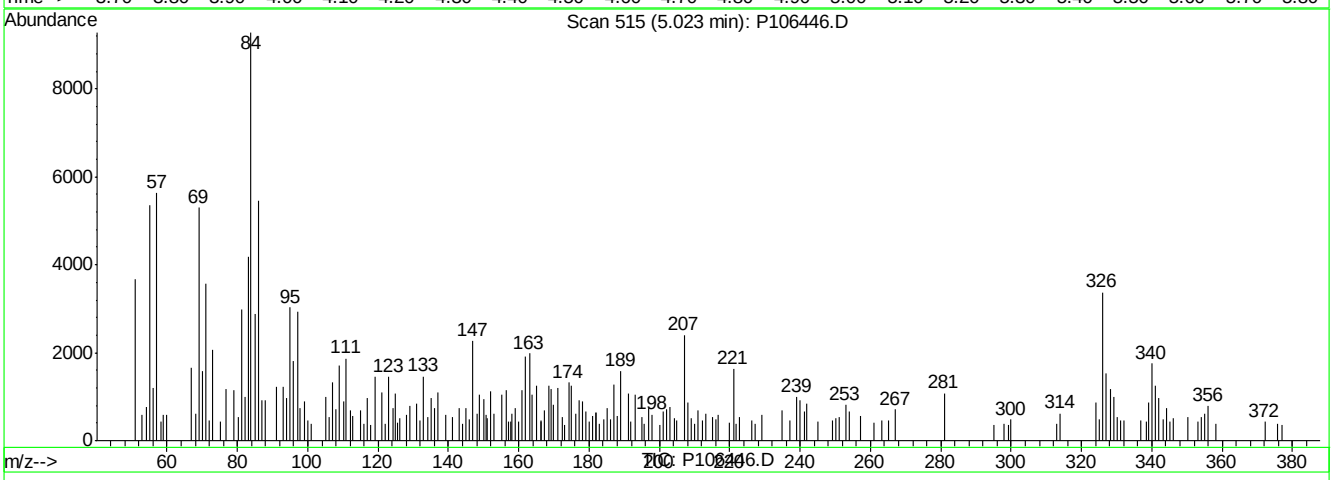
P106446.D DFTPPP.M Fri Jul 29 12:31:58 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\EP4706\P106446.D Vial: 1
Acq On : 29 Jul 2016 8:57 am Operator: ashleyd
Sample : dftpp Inst : MSP
Misc : op95516,ep4706 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 29 9:03 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

5.02min 0.86ppb

response 1119

Ion	Exp%	Act%
235.00	100	100
237.00	55.80	96.78#
165.00	51.00	0.00#
0.00	0.00	0.00

P106446.D DFTPPP.M Fri Jul 29 12:32:15 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62950.D
Acq On : 14 Jul 2016 10:23 am
Operator : ashleyd
Sample : ic2975-0.2
Misc : op95160a,e3m2975
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 15:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:26:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.282	150	274664	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	443421	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	770447	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	658595	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	168357	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
4) Phenol-d5	5.891	99	252876	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
7) Nitrobenzene-d5	7.410	82	243228	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
15) 2-Fluorobiphenyl	10.958	172	558804	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
20) 2,4,6-Tribromophenol	13.822	330	77291	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
28) Terphenyl-d14	18.298	244	505225	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.081	88	3490	0.20	ppm	100
5) Phenol	5.915	94	65979	1.00	ppm	100
6) bis(2-Chloroethyl)ether	5.988	93	10011	0.20	ppm	100
8) Nitrobenzene	7.448	77	12801	0.20	ppm	100
9) Naphthalene	8.804	128	35278	0.20	ppm	100
10) Hexachlorobutadiene	9.105	225	6059	0.20	ppm	100
11) 2-Methylnaphthalene	10.179	141	18202	0.20	ppm	100
12) 1-Methylnaphthalene	10.364	141	18612	0.20	ppm	100
13) Hexachlorocyclopentadiene	10.528	237	8915	0.40	ppm	100
16) Acenaphthylene	11.931	152	32118	0.20	ppm	100
17) Acenaphthene	12.287	153	21647	0.20	ppm	100
18) 4,6-dinitro-2-methylph...	13.502	198	10109	1.00	ppm	100
19) Fluorene	13.313	166	23540	0.20	ppm	100
22) Hexachlorobenzene	14.434	284	8608	0.20	ppm	100
23) Pentachlorophenol	14.867	266	15705	1.00	ppm	100
24) Phenanthrene	15.222	178	35006	0.20	ppm	100
25) Anthracene	15.315	178	30805	0.20	ppm	100
26) Fluoranthene	17.510	202	43186	0.20	ppm	100
27) Pyrene	17.896	202	41279	0.20	ppm	100
29) Benzo[a]anthracene	19.998	228	36051	0.20	ppm	100
30) Chrysene	20.044	228	37086	0.20	ppm	100
32) Benzo[b]fluoranthene	21.657	252	44363	0.20	ppm	100
33) Benzo[k]fluoranthene	21.694	252	39275	0.20	ppm	100
34) Benzo[a]pyrene	22.108	252	39842	0.20	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.557	276	40948	0.20	ppm	100
36) Dibenz[a,h]anthracene	23.594	278	33518	0.20	ppm	100
37) Benzo[g,h,i]perylene	23.895	276	37590	0.20	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62950.D
Acq On : 14 Jul 2016 10:23 am
Operator : ashleyd
Sample : ic2975-0.2
Misc : op95160a,e3m2975
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 15:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:26:25 2016
Response via : Initial Calibration

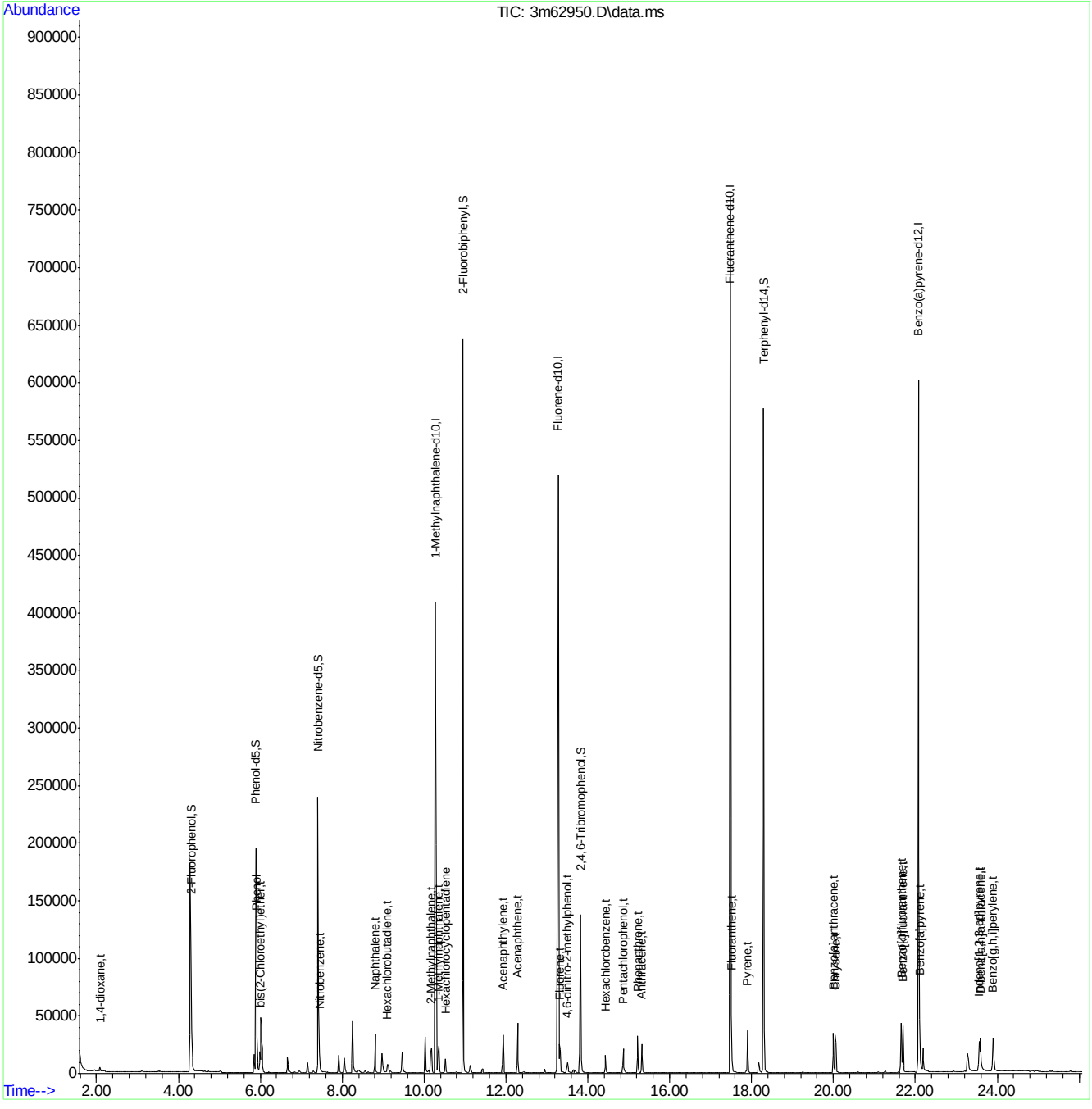
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62950.D
Acq On : 14 Jul 2016 10:23 am
Operator : ashleyd
Sample : ic2975-0.2
Misc : op95160a,e3m2975
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 15:26:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:26:25 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62951.D
Acq On : 14 Jul 2016 10:55 am
Operator : ashleyd
Sample : ic2975-0.1
Misc : op95160a,e3m2975
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 15:27:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.282	150	307580	4.00	ppm		0.00
14) Fluorene-d10	13.275	176	486308	4.00	ppm		0.00
21) Fluoranthene-d10	17.479	212	849737	4.00	ppm		0.00
31) Benzo(a)pyrene-d12	22.070	264	762984	4.00	ppm		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	4.307	112	81172	1.72	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.44%		
4) Phenol-d5	5.903	99	120628	1.70	ppm		0.01
Spiked Amount 50.000			Recovery	=	3.40%		
7) Nitrobenzene-d5	7.410	82	113912	1.67	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.34%		
15) 2-Fluorobiphenyl	10.958	172	277958	1.81	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.62%		
20) 2,4,6-Tribromophenol	13.822	330	34684	1.64	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.28%		
28) Terphenyl-d14	18.298	244	243933	1.75	ppm		0.00
Spiked Amount 50.000			Recovery	=	3.50%		
Target Compounds							Qvalue
2) 1,4-dioxane	2.097	88	1717	0.09	ppm		75
5) Phenol	5.915	94	32525	0.44	ppm	#	78
6) bis(2-Chloroethyl)ether	5.988	93	4944	0.09	ppm		74
8) Nitrobenzene	7.448	77	6217	0.09	ppm		89
9) Naphthalene	8.803	128	17470	0.09	ppm		98
10) Hexachlorobutadiene	9.123	225	3112	0.09	ppm	#	59
11) 2-Methylnaphthalene	10.179	141	8271	0.08	ppm		92
12) 1-Methylnaphthalene	10.364	141	9466	0.09	ppm		97
13) Hexachlorocyclopentadiene	10.528	237	2941	0.12	ppm		99
16) Acenaphthylene	11.931	152	15281	0.09	ppm		99
17) Acenaphthene	12.287	153	10239	0.09	ppm		99
18) 4,6-dinitro-2-methylph...	13.501	198	3012	0.27	ppm	#	68
19) Fluorene	13.313	166	11553	0.09	ppm		98
22) Hexachlorobenzene	14.434	284	4350	0.09	ppm		98
23) Pentachlorophenol	14.867	266	3824	0.22	ppm		92
24) Phenanthrene	15.222	178	16617	0.09	ppm		99
25) Anthracene	15.315	178	14062	0.08	ppm		99
26) Fluoranthene	17.510	202	21581	0.09	ppm		99
27) Pyrene	17.896	202	19367	0.09	ppm		99
29) Benzo[a]anthracene	19.997	228	15815	0.08	ppm		100
30) Chrysene	20.044	228	16857	0.08	ppm		98
32) Benzo[b]fluoranthene	21.657	252	21246	0.08	ppm		97
33) Benzo[k]fluoranthene	21.694	252	17962	0.08	ppm		99
34) Benzo[a]pyrene	22.108	252	20682	0.09	ppm		98
35) Indeno[1,2,3-cd]pyrene	23.556	276	19077	0.08	ppm		99
36) Dibenz[a,h]anthracene	23.594	278	15514	0.08	ppm		99
37) Benzo[g,h,i]perylene	23.895	276	18899	0.09	ppm		100

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62951.D
Acq On : 14 Jul 2016 10:55 am
Operator : ashleyd
Sample : ic2975-0.1
Misc : op95160a,e3m2975
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 15:27:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:05 2016
Response via : Initial Calibration

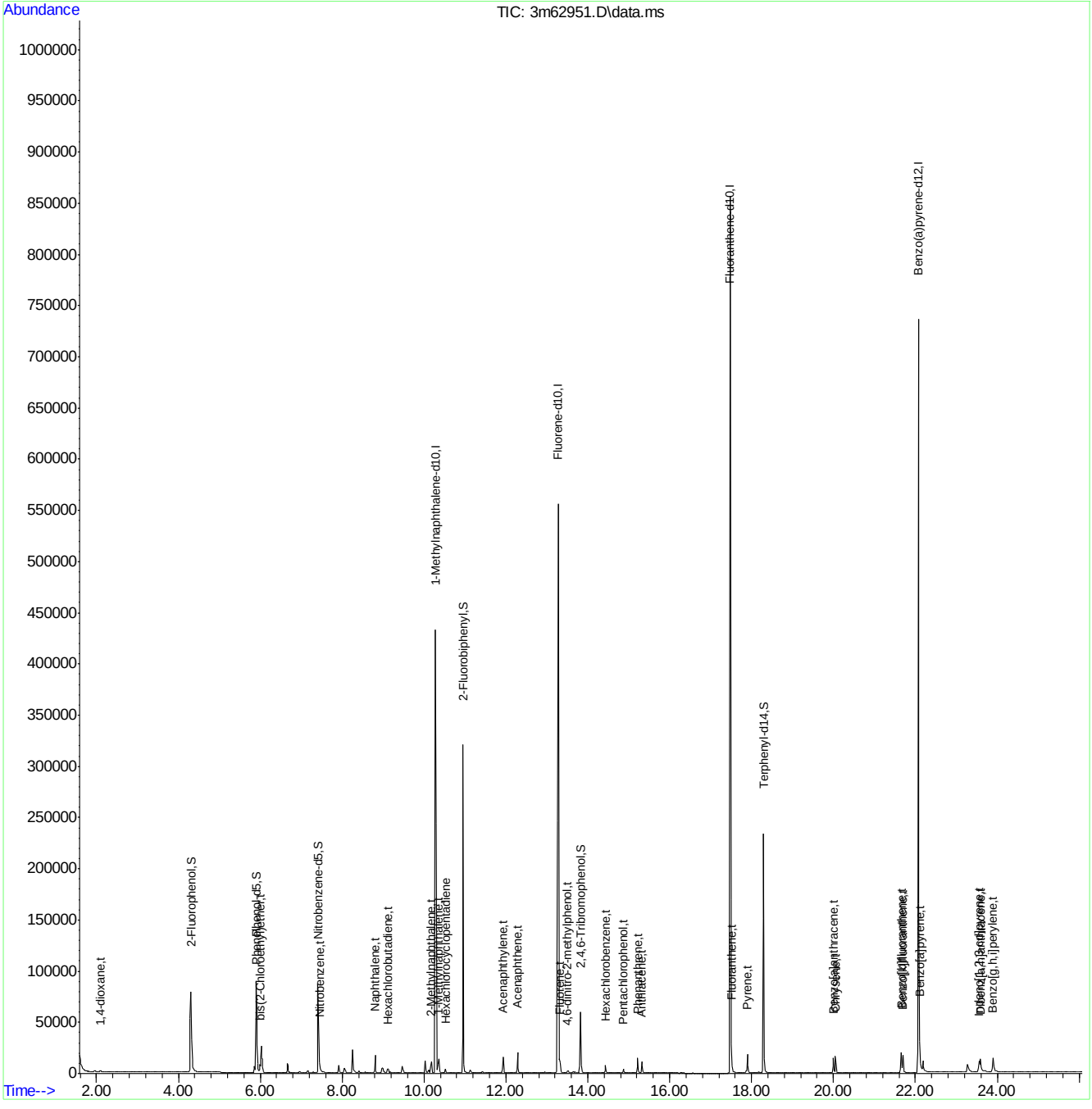
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62951.D
Acq On : 14 Jul 2016 10:55 am
Operator : ashleyd
Sample : ic2975-0.1
Misc : op95160a,e3m2975
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 15:27:15 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:05 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62952.D
Acq On : 14 Jul 2016 11:28 am
Operator : ashleyd
Sample : ic2975-0.05
Misc : op95160a,e3m2975
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 14 15:27:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.281	150	364800	4.00	ppm		0.00
14) Fluorene-d10	13.275	176	586816	4.00	ppm		0.00
21) Fluoranthene-d10	17.479	212	1040150	4.00	ppm		0.00
31) Benzo(a)pyrene-d12	22.070	264	912640	4.00	ppm		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	4.306	112	48304	0.93	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.86%		
4) Phenol-d5	5.903	99	70547	0.91	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.82%		
7) Nitrobenzene-d5	7.410	82	62689	0.85	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.70%		
15) 2-Fluorobiphenyl	10.958	172	171779	0.97	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.94%		
20) 2,4,6-Tribromophenol	13.822	330	19313	0.76	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.52%		
28) Terphenyl-d14	18.298	244	142787	0.89	ppm		0.00
Spiked Amount 50.000			Recovery	=	1.78%		
Target Compounds							Qvalue
2) 1,4-dioxane	2.097	88	1052	0.05	ppm		96
5) Phenol	5.915	94	18865	0.23	ppm	#	89
6) bis(2-Chloroethyl)ether	6.000	93	2872	0.05	ppm		51
8) Nitrobenzene	7.448	77	3299	0.04	ppm		95
9) Naphthalene	8.803	128	10390	0.05	ppm		99
10) Hexachlorobutadiene	9.123	225	1864	0.05	ppm		100
11) 2-Methylnaphthalene	10.179	141	6008	0.05	ppm		99
12) 1-Methylnaphthalene	10.364	141	5959	0.05	ppm		98
13) Hexachlorocyclopentadiene	10.528	237	1290	0.05	ppm		97
16) Acenaphthylene	11.931	152	9187	0.05	ppm		99
17) Acenaphthene	12.286	153	6220	0.05	ppm		100
18) 4,6-dinitro-2-methylph...	13.501	198	2051	0.20	ppm	#	80
19) Fluorene	13.313	166	7041	0.05	ppm		100
22) Hexachlorobenzene	14.434	284	2649	0.05	ppm		99
23) Pentachlorophenol	14.867	266	2622	0.17	ppm		97
24) Phenanthrene	15.222	178	9959	0.05	ppm		99
25) Anthracene	15.315	178	8858	0.05	ppm		99
26) Fluoranthene	17.510	202	14136	0.05	ppm		99
27) Pyrene	17.896	202	11496	0.04	ppm		99
29) Benzo[a]anthracene	19.997	228	8956	0.04	ppm		99
30) Chrysene	20.044	228	11074	0.05	ppm		98
32) Benzo[b]fluoranthene	21.657	252	11950	0.04	ppm		99
33) Benzo[k]fluoranthene	21.694	252	10807	0.04	ppm		99
34) Benzo[a]pyrene	22.108	252	14204	0.05	ppm		98
35) Indeno[1,2,3-cd]pyrene	23.556	276	10836	0.04	ppm		99
36) Dibenz[a,h]anthracene	23.594	278	8934	0.04	ppm		87
37) Benzo[g,h,i]perylene	23.895	276	10723	0.04	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62952.D
Acq On : 14 Jul 2016 11:28 am
Operator : ashleyd
Sample : ic2975-0.05
Misc : op95160a,e3m2975
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 14 15:27:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:34 2016
Response via : Initial Calibration

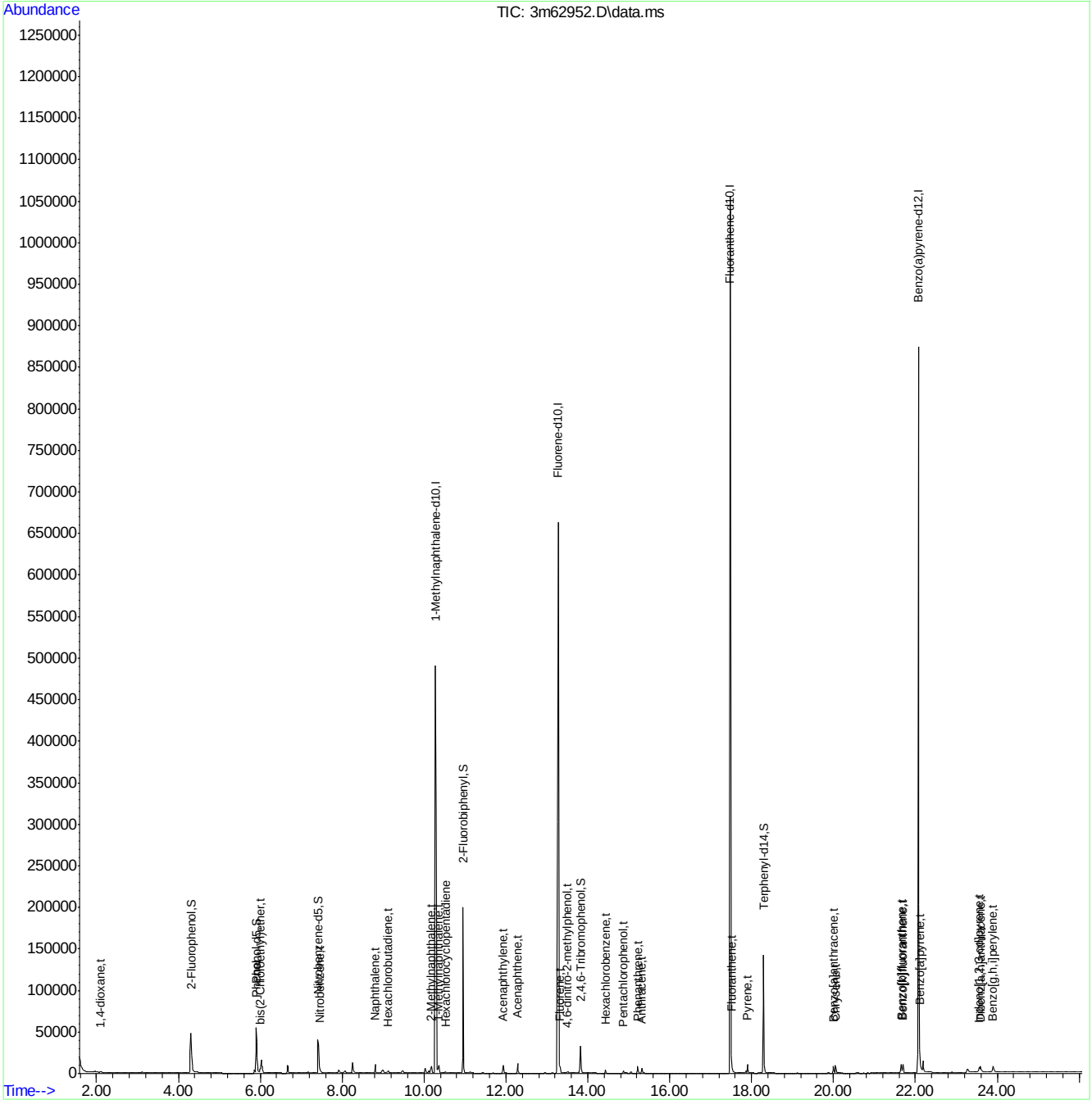
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62952.D
Acq On : 14 Jul 2016 11:28 am
Operator : ashleyd
Sample : ic2975-0.05
Misc : op95160a,e3m2975
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 14 15:27:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:27:34 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62953.D
Acq On : 14 Jul 2016 12:01 pm
Operator : ashleyd
Sample : ic2975-0.02
Misc : op95160a,e3m2975
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.282	150	291842	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	473899	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	805807	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	720786	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	14299	0.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.70%	
4) Phenol-d5	5.903	99	20010	0.33	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.66%	
7) Nitrobenzene-d5	7.429	82	17337	0.31	ppm	0.02
Spiked Amount 50.000			Recovery	=	0.62%	
15) 2-Fluorobiphenyl	10.958	172	53471	0.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.76%	
20) 2,4,6-Tribromophenol	13.822	330	5149	0.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.50%	
28) Terphenyl-d14	18.298	244	43176	0.35	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.70%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	320	0.02	ppm	98
5) Phenol	5.928	94	5591	0.09	ppm #	86
6) bis(2-Chloroethyl)ether	6.000	93	825	0.02	ppm	88
8) Nitrobenzene	7.448	77	931	0.02	ppm	91
9) Naphthalene	8.803	128	3353	0.02	ppm	99
10) Hexachlorobutadiene	9.124	225	596	0.02	ppm	95
11) 2-Methylnaphthalene	10.179	141	2901	0.03	ppm	97
12) 1-Methylnaphthalene	10.364	141	1975	0.02	ppm	94
13) Hexachlorocyclopentadiene	10.528	237	153	0.01	ppm	89
16) Acenaphthylene	11.931	152	2827	0.02	ppm	99
17) Acenaphthene	12.287	153	1933	0.02	ppm	96
18) 4,6-dinitro-2-methylph...	13.520	198	779	0.09	ppm	93
19) Fluorene	13.332	166	2272	0.02	ppm	73
22) Hexachlorobenzene	14.434	284	859	0.02	ppm	99
23) Pentachlorophenol	14.882	266	1098	0.10	ppm	87
24) Phenanthrene	15.222	178	3123	0.02	ppm	98
25) Anthracene	15.331	178	2803	0.02	ppm	90
26) Fluoranthene	17.510	202	4857	0.02	ppm	98
27) Pyrene	17.896	202	3541	0.02	ppm	99
29) Benzo[a]anthracene	19.997	228	2587	0.02	ppm	99
30) Chrysene	20.044	228	3492	0.02	ppm	99
32) Benzo[b]fluoranthene	21.657	252	3586	0.02	ppm	97
33) Benzo[k]fluoranthene	21.694	252	3496	0.02	ppm	97
35) Indeno[1,2,3-cd]pyrene	23.557	276	3456	0.02	ppm	98
36) Dibenz[a,h]anthracene	23.594	278	2772	0.02	ppm	97
37) Benzo[g,h,i]perylene	23.895	276	3398	0.02	ppm	100

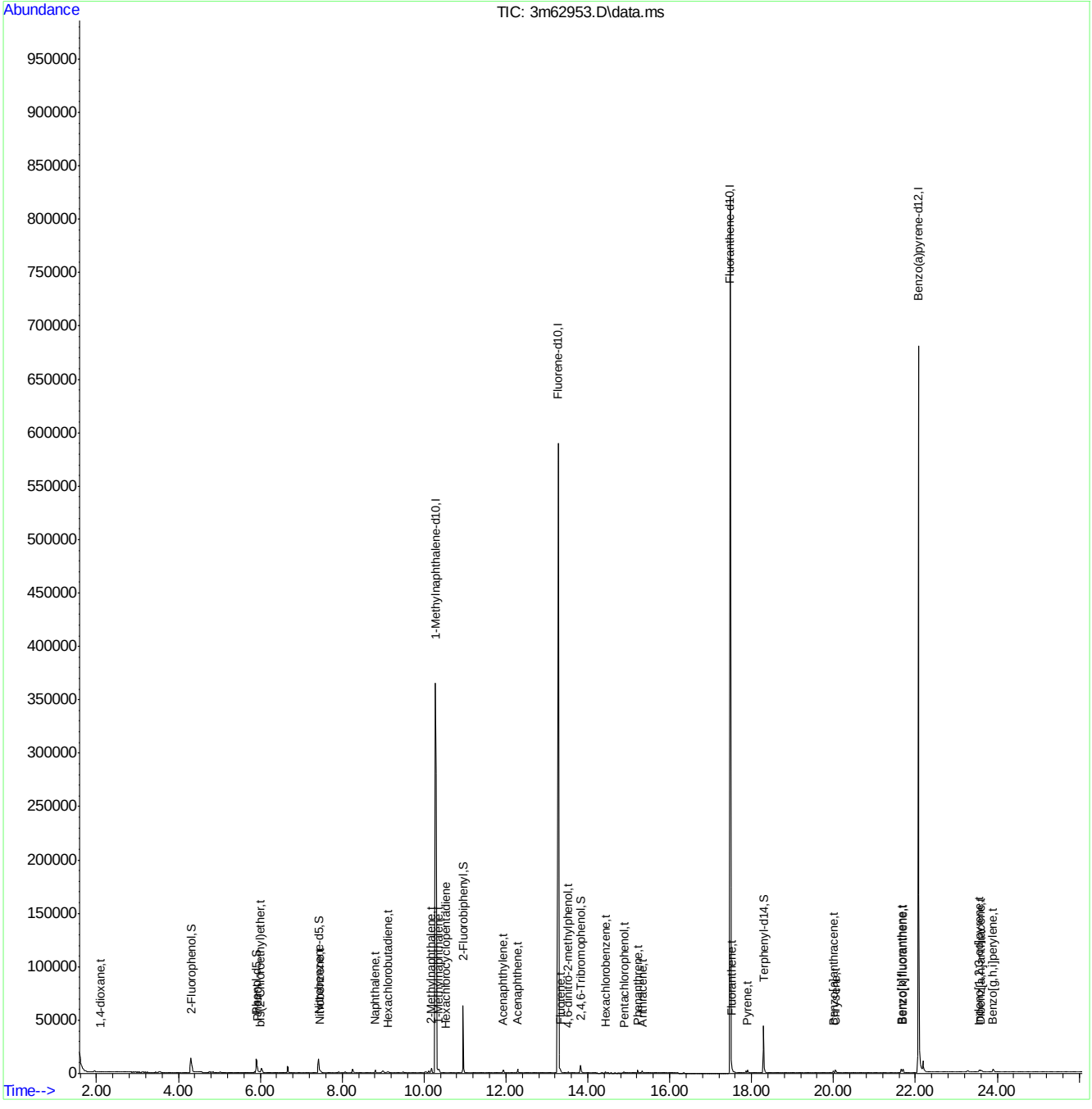
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62953.D
Acq On : 14 Jul 2016 12:01 pm
Operator : ashleyd
Sample : ic2975-0.02
Misc : op95160a,e3m2975
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 15:28:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:02 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62954.D
Acq On : 14 Jul 2016 12:34 pm
Operator : ashleyd
Sample : ic2975-0.01
Misc : op95160a,e3m2975
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 14 15:28:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:29 2016
Response via : Initial Calibration

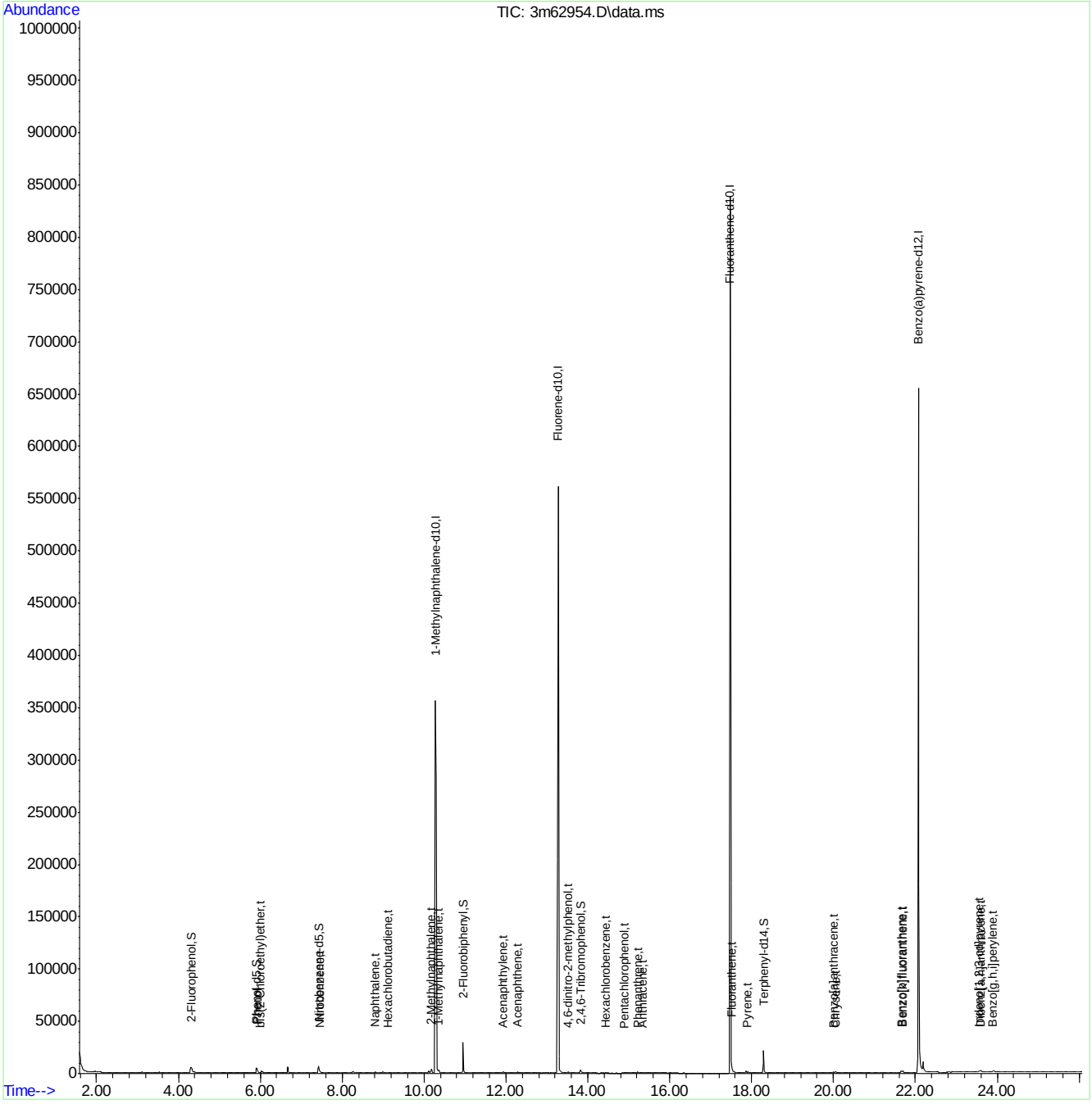
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.281	150	286676	4.00 ppm	0.00
14) Fluorene-d10	13.275	176	465149	4.00 ppm	0.00
21) Fluoranthene-d10	17.479	212	822792	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.070	264	710813	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.306	112	6385	0.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.32%	
4) Phenol-d5	5.903	99	8853	0.15 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.30%	
7) Nitrobenzene-d5	7.429	82	8648	0.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.32%	
15) 2-Fluorobiphenyl	10.958	172	25237	0.18 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.36%	
20) 2,4,6-Tribromophenol	13.822	330	2153	0.11 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.22%	
28) Terphenyl-d14	18.298	244	20344	0.16 ppm	0.00
Spiked Amount 50.000			Recovery	= 0.32%	
Target Compounds					Qvalue
5) Phenol	5.927	94	2320	0.04 ppm #	70
6) bis(2-Chloroethyl)ether	6.000	93	340	0.01 ppm	75
8) Nitrobenzene	7.466	77	432	0.01 ppm	66
9) Naphthalene	8.803	128	1600	0.01 ppm	99
10) Hexachlorobutadiene	9.123	225	296	0.01 ppm	97
11) 2-Methylnaphthalene	10.179	141	2216	0.02 ppm	97
12) 1-Methylnaphthalene	10.363	141	982	0.01 ppm	98
16) Acenaphthylene	11.931	152	1368	0.01 ppm	99
17) Acenaphthene	12.286	153	926	0.01 ppm	99
18) 4,6-dinitro-2-methylph...	13.520	198	584	0.07 ppm	85
22) Hexachlorobenzene	14.434	284	415	0.01 ppm	99
23) Pentachlorophenol	14.882	266	730	0.07 ppm	96
24) Phenanthrene	15.222	178	1543	0.01 ppm	98
25) Anthracene	15.330	178	1263	0.01 ppm	98
26) Fluoranthene	17.510	202	2762	0.01 ppm	98
27) Pyrene	17.896	202	1675	0.01 ppm	97
29) Benzo[a]anthracene	19.997	228	1263	0.01 ppm	99
30) Chrysene	20.059	228	1687	0.01 ppm	88
32) Benzo[b]fluoranthene	21.657	252	1655	0.01 ppm	97
33) Benzo[k]fluoranthene	21.694	252	1846	0.01 ppm	98
35) Indeno[1,2,3-cd]pyrene	23.556	276	1735	0.01 ppm	95
36) Dibenz[a,h]anthracene	23.594	278	1381	0.01 ppm	89
37) Benzo[g,h,i]perylene	23.895	276	1714	0.01 ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62954.D
Acq On : 14 Jul 2016 12:34 pm
Operator : ashleyd
Sample : ic2975-0.01
Misc : op95160a,e3m2975
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 14 15:28:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:29 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62955.D
Acq On : 14 Jul 2016 1:07 pm
Operator : ashleyd
Sample : ic2975-5.0
Misc : op95160a,e3m2975
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 15:29:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	302894	4.00	ppm	0.02
14) Fluorene-d10	13.275	176	574117	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	860727	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	717014	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	4318750	102.43	ppm	0.00
Spiked Amount 50.000			Recovery	=	204.86%	
4) Phenol-d5	5.915	99	6082736	97.23	ppm	0.01
Spiked Amount 50.000			Recovery	=	194.46%	
7) Nitrobenzene-d5	7.429	82	6179269	105.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	211.62%	
15) 2-Fluorobiphenyl	10.979	172	13432150	80.85	ppm	0.02
Spiked Amount 50.000			Recovery	=	161.70%	
20) 2,4,6-Tribromophenol	13.841	330	2407229	96.22	ppm	0.02
Spiked Amount 50.000			Recovery	=	192.44%	
28) Terphenyl-d14	18.313	244	11677007	88.24	ppm	0.02
Spiked Amount 50.000			Recovery	=	176.48%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.081	88	83949	4.64	ppm #	20
5) Phenol	5.928	94	1592767	24.74	ppm #	61
6) bis(2-Chloroethyl)ether	6.000	93	254030	5.51	ppm #	78
8) Nitrobenzene	7.448	77	332950	5.93	ppm #	57
9) Naphthalene	8.804	128	904046	5.12	ppm	99
10) Hexachlorobutadiene	9.124	225	160067	5.09	ppm	97
11) 2-Methylnaphthalene	10.179	141	459838	4.90	ppm	93
12) 1-Methylnaphthalene	10.364	141	508067	5.07	ppm	97
13) Hexachlorocyclopentadiene	10.528	237	366074	18.74	ppm	85
16) Acenaphthylene	11.931	152	956438	5.17	ppm	99
17) Acenaphthene	12.287	153	598218	4.87	ppm	98
18) 4,6-dinitro-2-methylph...	13.502	198	596329	59.04	ppm #	58
19) Fluorene	13.332	166	654861	4.64	ppm	99
22) Hexachlorobenzene	14.434	284	223993	4.97	ppm	95
23) Pentachlorophenol	14.867	266	635745	56.14	ppm	94
24) Phenanthrene	15.222	178	985853	5.59	ppm	98
25) Anthracene	15.315	178	974752	6.20	ppm	91
26) Fluoranthene	17.510	202	1158185	5.01	ppm	98
27) Pyrene	17.896	202	1178028	5.73	ppm	98
29) Benzo[a]anthracene	19.998	228	1046106	6.16	ppm	99
30) Chrysene	20.044	228	1001850	5.36	ppm	87
32) Benzo[b]fluoranthene	21.657	252	1192553	5.41	ppm	98
33) Benzo[k]fluoranthene	21.694	252	1069373	5.59	ppm	98
34) Benzo[a]pyrene	22.108	252	1038380	4.91	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.557	276	1179649	5.87	ppm	98
36) Dibenz[a,h]anthracene	23.594	278	987225	6.02	ppm	84
37) Benzo[g,h,i]perylene	23.895	276	955285	5.00	ppm	99

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62955.D
Acq On : 14 Jul 2016 1:07 pm
Operator : ashleyd
Sample : ic2975-5.0
Misc : op95160a,e3m2975
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 15:29:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:56 2016
Response via : Initial Calibration

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

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

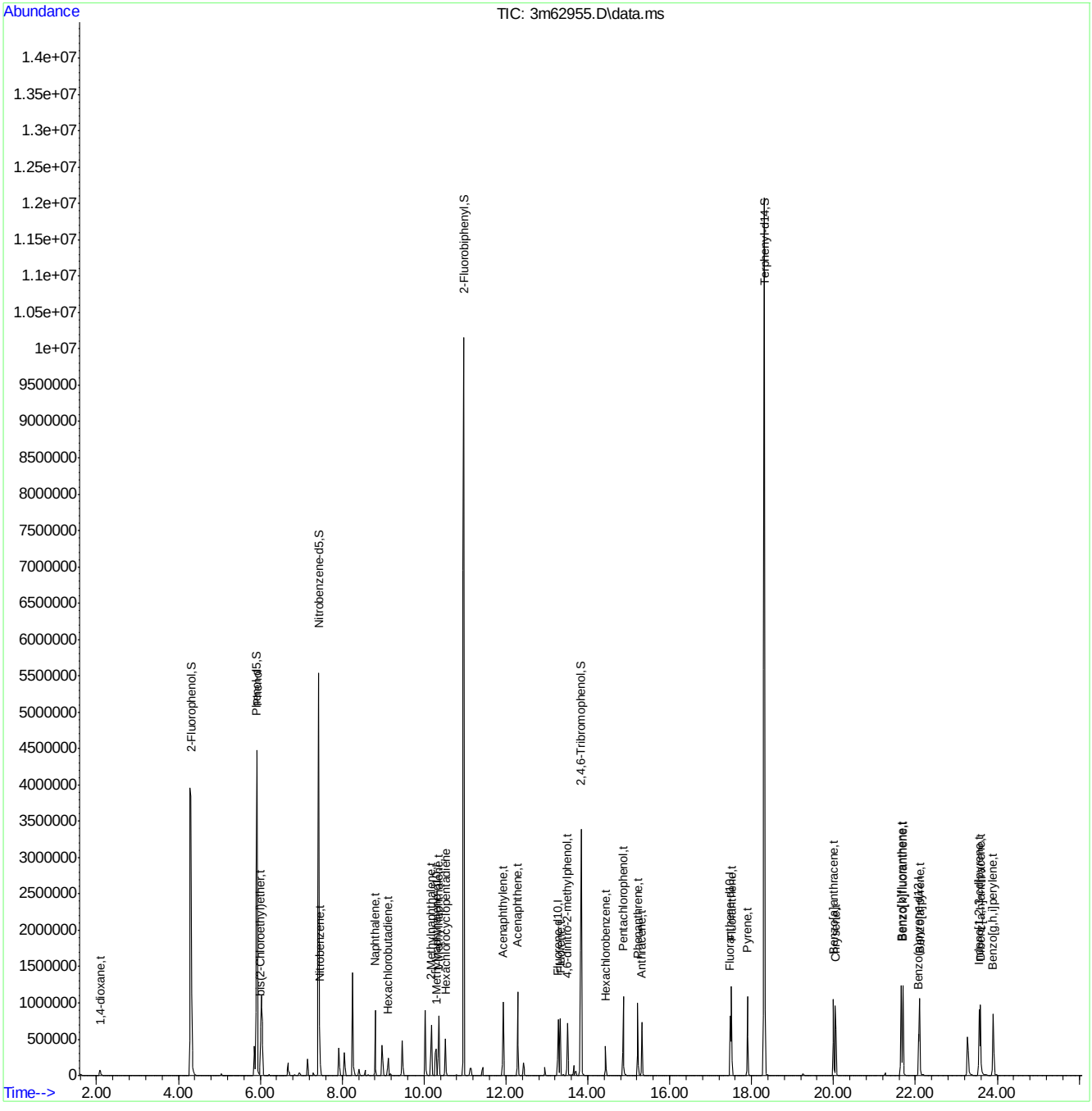
7.6.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62955.D
Acq On : 14 Jul 2016 1:07 pm
Operator : ashleyd
Sample : ic2975-5.0
Misc : op95160a,e3m2975
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 15:29:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:28:56 2016
Response via : Initial Calibration



M3M2975SIM.M Thu Jul 14 15:29:18 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62956.D
Acq On : 14 Jul 2016 1:40 pm
Operator : ashleyd
Sample : ic2975-2.5
Misc : op95160a,e3m2975
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 14 15:29:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	285610	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	507003	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	780744	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.070	264	647332	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	1983802	49.60	ppm	0.00
Spiked Amount 50.000			Recovery = 99.20%			
4) Phenol-d5	5.903	99	2905488	49.60	ppm	-0.01
Spiked Amount 50.000			Recovery = 99.20%			
7) Nitrobenzene-d5	7.410	82	2634312	47.15	ppm	-0.02
Spiked Amount 50.000			Recovery = 94.30%			
15) 2-Fluorobiphenyl	10.958	172	5099733	34.76	ppm	-0.02
Spiked Amount 50.000			Recovery = 69.52%			
20) 2,4,6-Tribromophenol	13.822	330	958511	44.22	ppm	-0.02
Spiked Amount 50.000			Recovery = 88.44%			
28) Terphenyl-d14	18.298	244	5685434	49.30	ppm	-0.02
Spiked Amount 50.000			Recovery = 98.60%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	36776	2.21	ppm #	49
5) Phenol	5.915	94	777392	12.83	ppm	94
6) bis(2-Chloroethyl)ether	6.000	93	119739	2.71	ppm #	46
8) Nitrobenzene	7.448	77	157465	2.89	ppm	81
9) Naphthalene	8.803	128	423455	2.53	ppm	100
10) Hexachlorobutadiene	9.124	225	73731	2.48	ppm	98
11) 2-Methylnaphthalene	10.179	141	218761	2.48	ppm	95
12) 1-Methylnaphthalene	10.364	141	238134	2.51	ppm	99
13) Hexachlorocyclopentadiene	10.528	237	155288	6.53	ppm	98
16) Acenaphthylene	11.931	152	434834	2.65	ppm	100
17) Acenaphthene	12.287	153	273677	2.53	ppm	100
18) 4,6-dinitro-2-methylph...	13.501	198	284805	21.96	ppm #	46
19) Fluorene	13.332	166	294196	2.40	ppm	98
22) Hexachlorobenzene	14.434	284	104325	2.56	ppm	99
23) Pentachlorophenol	14.867	266	252598	18.75	ppm	96
24) Phenanthrene	15.222	178	448657	2.73	ppm	99
25) Anthracene	15.315	178	445790	2.89	ppm	100
26) Fluoranthene	17.510	202	536138	2.55	ppm	100
27) Pyrene	17.896	202	544179	2.81	ppm	99
29) Benzo[a]anthracene	19.997	228	458604	2.81	ppm	100
30) Chrysene	20.044	228	455740	2.64	ppm	100
32) Benzo[b]fluoranthene	21.657	252	551382	2.70	ppm	99
33) Benzo[k]fluoranthene	21.694	252	471150	2.62	ppm	98
34) Benzo[a]pyrene	22.108	252	473725	2.48	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.557	276	516726	2.69	ppm	99
36) Dibenz[a,h]anthracene	23.594	278	434078	2.74	ppm	98
37) Benzo[g,h,i]perylene	23.895	276	455460	2.64	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62956.D
Acq On : 14 Jul 2016 1:40 pm
Operator : ashleyd
Sample : ic2975-2.5
Misc : op95160a,e3m2975
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 14 15:29:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:21 2016
Response via : Initial Calibration

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

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

7.6.7

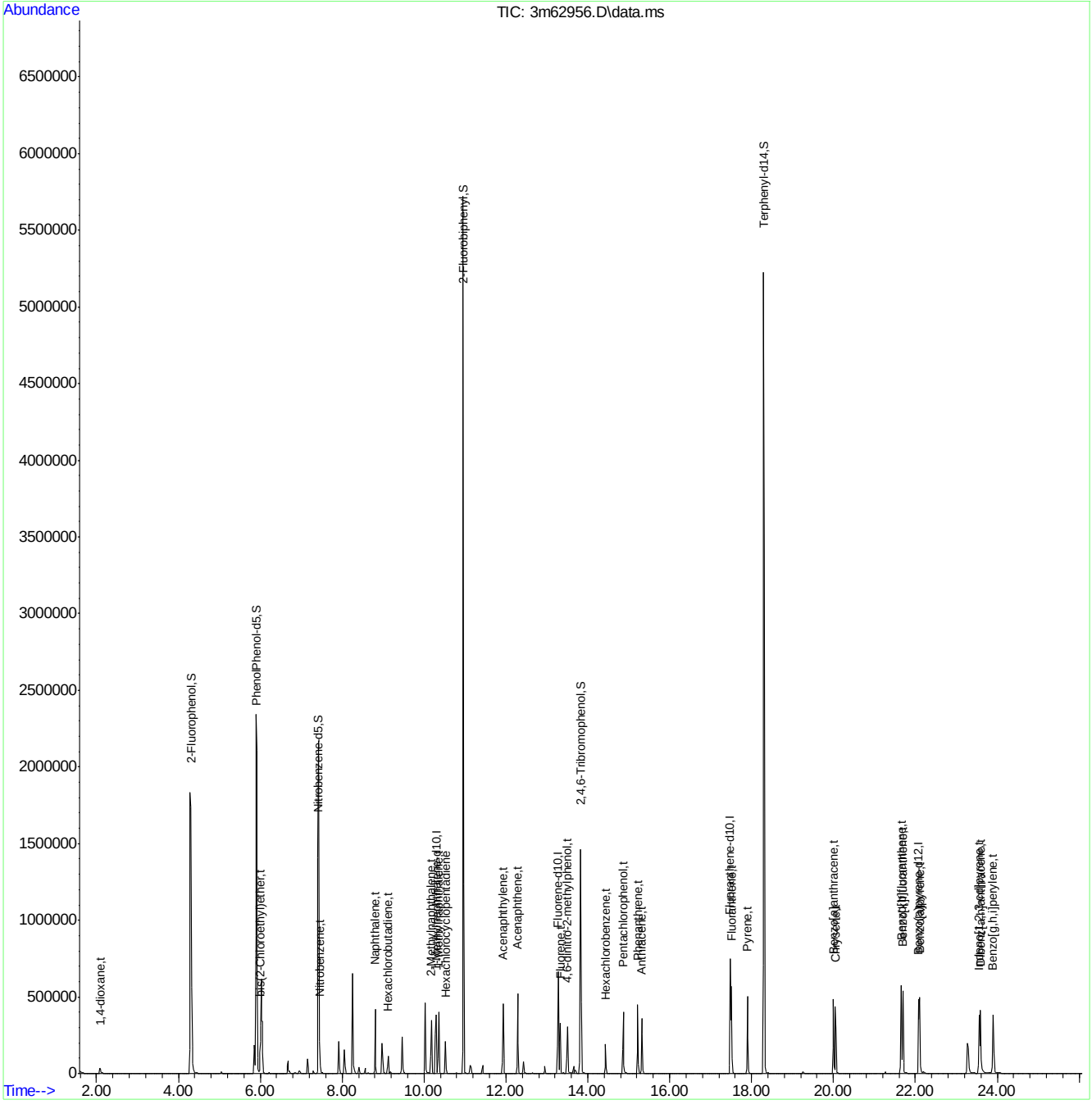
7

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62956.D
Acq On : 14 Jul 2016 1:40 pm
Operator : ashleyd
Sample : ic2975-2.5
Misc : op95160a,e3m2975
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 14 15:29:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:21 2016
Response via : Initial Calibration



M3M2975SIM.M Thu Jul 14 15:29:43 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62957.D
Acq On : 14 Jul 2016 2:13 pm
Operator : ashleyd
Sample : icc2975-1.0
Misc : op95160a,e3m2975
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 15:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	228297	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	373616	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	574048	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.070	264	465703	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	621771	19.48	ppm	0.00
Spiked Amount 50.000			Recovery = 38.96%			
4) Phenol-d5	5.903	99	946661	20.25	ppm	0.00
Spiked Amount 50.000			Recovery = 40.50%			
7) Nitrobenzene-d5	7.410	82	884109	20.03	ppm	0.00
Spiked Amount 50.000			Recovery = 40.06%			
15) 2-Fluorobiphenyl	10.958	172	1961530	19.11	ppm	0.00
Spiked Amount 50.000			Recovery = 38.22%			
20) 2,4,6-Tribromophenol	13.822	330	317780	20.69	ppm	0.00
Spiked Amount 50.000			Recovery = 41.38%			
28) Terphenyl-d14	18.298	244	1844889	21.83	ppm	0.00
Spiked Amount 50.000			Recovery = 43.66%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	11914	0.92	ppm	93
5) Phenol	5.915	94	249953	5.14	ppm #	78
6) bis(2-Chloroethyl)ether	6.000	93	38215	1.07	ppm	82
8) Nitrobenzene	7.448	77	45371	1.02	ppm	95
9) Naphthalene	8.803	128	131390	0.98	ppm	100
10) Hexachlorobutadiene	9.123	225	24161	1.02	ppm	97
11) 2-Methylnaphthalene	10.179	141	68399	0.97	ppm	98
12) 1-Methylnaphthalene	10.364	141	76266	1.01	ppm	98
13) Hexachlorocyclopentadiene	10.528	237	38119	1.86	ppm	97
16) Acenaphthylene	11.931	152	127625	1.04	ppm	99
17) Acenaphthene	12.286	153	82317	1.03	ppm	97
18) 4,6-dinitro-2-methylph...	13.501	198	67675	5.95	ppm	97
19) Fluorene	13.332	166	89586	1.00	ppm	98
22) Hexachlorobenzene	14.434	284	32412	1.08	ppm	98
23) Pentachlorophenol	14.867	266	59091	5.42	ppm	94
24) Phenanthrene	15.222	178	138217	1.12	ppm	99
25) Anthracene	15.331	178	126386	1.07	ppm	89
26) Fluoranthene	17.510	202	159695	1.03	ppm	100
27) Pyrene	17.896	202	155527	1.07	ppm	98
29) Benzo[a]anthracene	19.997	228	127746	1.04	ppm	97
30) Chrysene	20.059	228	137402	1.07	ppm	84
32) Benzo[b]fluoranthene	21.657	252	155244	1.03	ppm	97
33) Benzo[k]fluoranthene	21.694	252	151903	1.16	ppm	98
34) Benzo[a]pyrene	22.108	252	140752	1.03	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.556	276	146193	1.04	ppm	99
36) Dibenz[a,h]anthracene	23.594	278	122655	1.05	ppm	96
37) Benzo[g,h,i]perylene	23.895	276	135161	1.07	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62957.D
Acq On : 14 Jul 2016 2:13 pm
Operator : ashleyd
Sample : icc2975-1.0
Misc : op95160a,e3m2975
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 15:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:47 2016
Response via : Initial Calibration

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

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

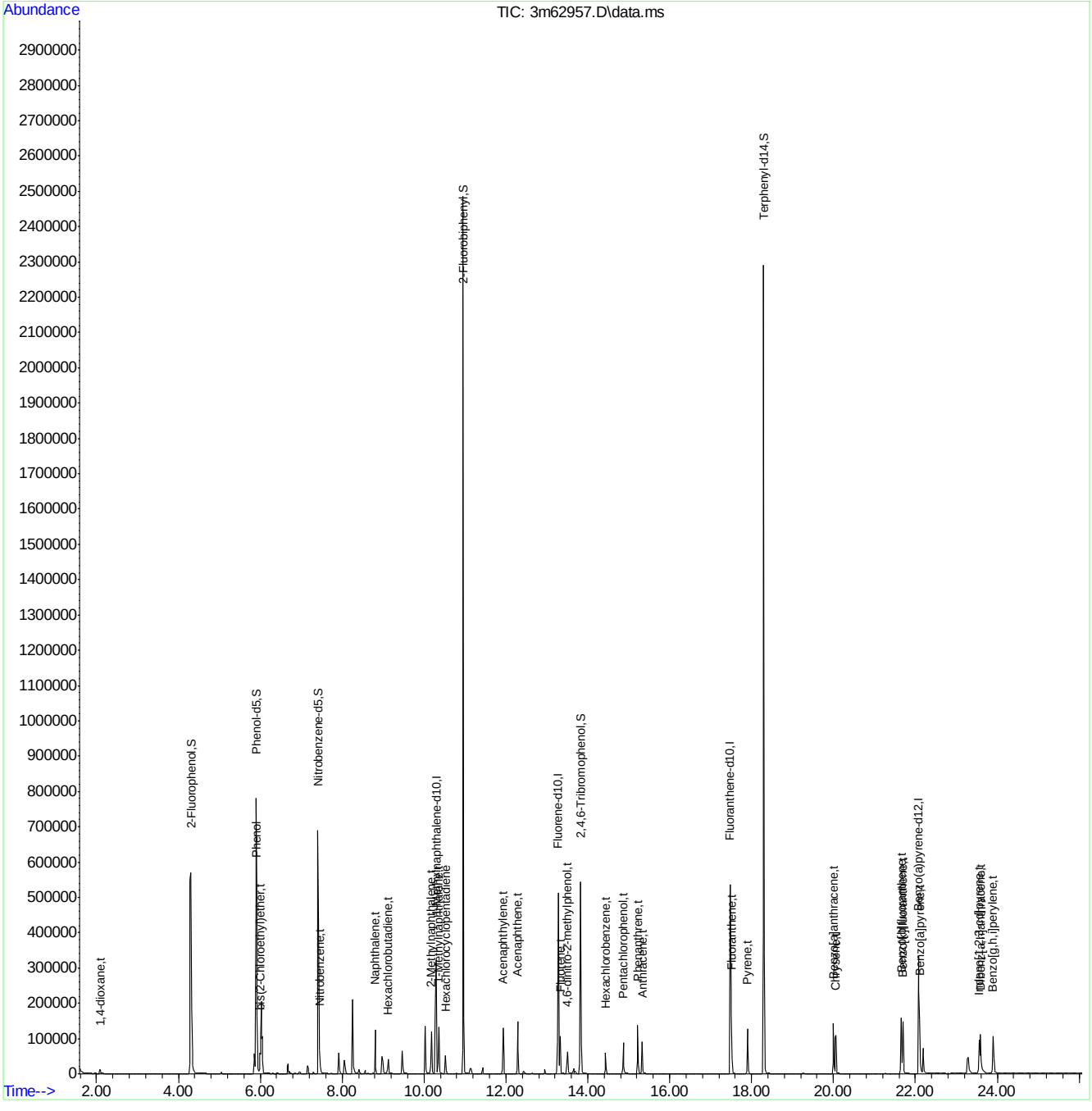
7.6.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62957.D
Acq On : 14 Jul 2016 2:13 pm
Operator : ashleyd
Sample : icc2975-1.0
Misc : op95160a,e3m2975
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 15:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62958.D
Acq On : 14 Jul 2016 2:47 pm
Operator : ashleyd
Sample : ic2975-0.5
Misc : op95160a,e3m2975
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 15:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:30:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.302	150	230723	4.00	ppm	0.00
14) Fluorene-d10	13.275	176	358418	4.00	ppm	0.00
21) Fluoranthene-d10	17.479	212	570136	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.071	264	456885	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.307	112	320713	9.98	ppm	0.00
Spiked Amount 50.000			Recovery = 19.96%			
4) Phenol-d5	5.903	99	483395	10.21	ppm	0.00
Spiked Amount 50.000			Recovery = 20.42%			
7) Nitrobenzene-d5	7.410	82	443910	9.95	ppm	0.00
Spiked Amount 50.000			Recovery = 19.90%			
15) 2-Fluorobiphenyl	10.958	172	1068117	10.92	ppm	0.00
Spiked Amount 50.000			Recovery = 21.84%			
20) 2,4,6-Tribromophenol	13.822	330	155369	10.46	ppm	0.00
Spiked Amount 50.000			Recovery = 20.92%			
28) Terphenyl-d14	18.298	244	947200	11.08	ppm	0.00
Spiked Amount 50.000			Recovery = 22.16%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.097	88	5941	0.46	ppm	96
5) Phenol	5.915	94	127606	2.59	ppm	97
6) bis(2-Chloroethyl)ether	6.000	93	19319	0.53	ppm	96
8) Nitrobenzene	7.448	77	22596	0.50	ppm	97
9) Naphthalene	8.803	128	67693	0.50	ppm	99
10) Hexachlorobutadiene	9.124	225	12542	0.52	ppm	99
11) 2-Methylnaphthalene	10.179	141	34939	0.49	ppm	97
12) 1-Methylnaphthalene	10.364	141	40136	0.52	ppm	97
13) Hexachlorocyclopentadiene	10.528	237	16452	0.81	ppm	99
16) Acenaphthylene	11.931	152	62095	0.53	ppm	99
17) Acenaphthene	12.287	153	41062	0.53	ppm	100
18) 4,6-dinitro-2-methylph...	13.501	198	25163	2.22	ppm	88
19) Fluorene	13.332	166	45274	0.53	ppm	99
22) Hexachlorobenzene	14.434	284	16559	0.55	ppm	100
23) Pentachlorophenol	14.867	266	22569	2.06	ppm	96
24) Phenanthrene	15.222	178	67150	0.54	ppm	99
25) Anthracene	15.331	178	60580	0.51	ppm	99
26) Fluoranthene	17.510	202	81489	0.53	ppm	100
27) Pyrene	17.896	202	75908	0.52	ppm	99
29) Benzo[a]anthracene	19.997	228	60028	0.49	ppm	100
30) Chrysene	20.059	228	65707	0.51	ppm	99
32) Benzo[b]fluoranthene	21.657	252	74987	0.51	ppm	99
33) Benzo[k]fluoranthene	21.694	252	73383	0.55	ppm	100
34) Benzo[a]pyrene	22.108	252	73339	0.54	ppm	100
35) Indeno[1,2,3-cd]pyrene	23.557	276	69465	0.50	ppm	99
36) Dibenz[a,h]anthracene	23.594	278	57966	0.50	ppm	96
37) Benzo[g,h,i]perylene	23.895	276	66291	0.53	ppm	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62958.D
Acq On : 14 Jul 2016 2:47 pm
Operator : ashleyd
Sample : ic2975-0.5
Misc : op95160a,e3m2975
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 15:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:30:15 2016
Response via : Initial Calibration

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

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

7.6.9

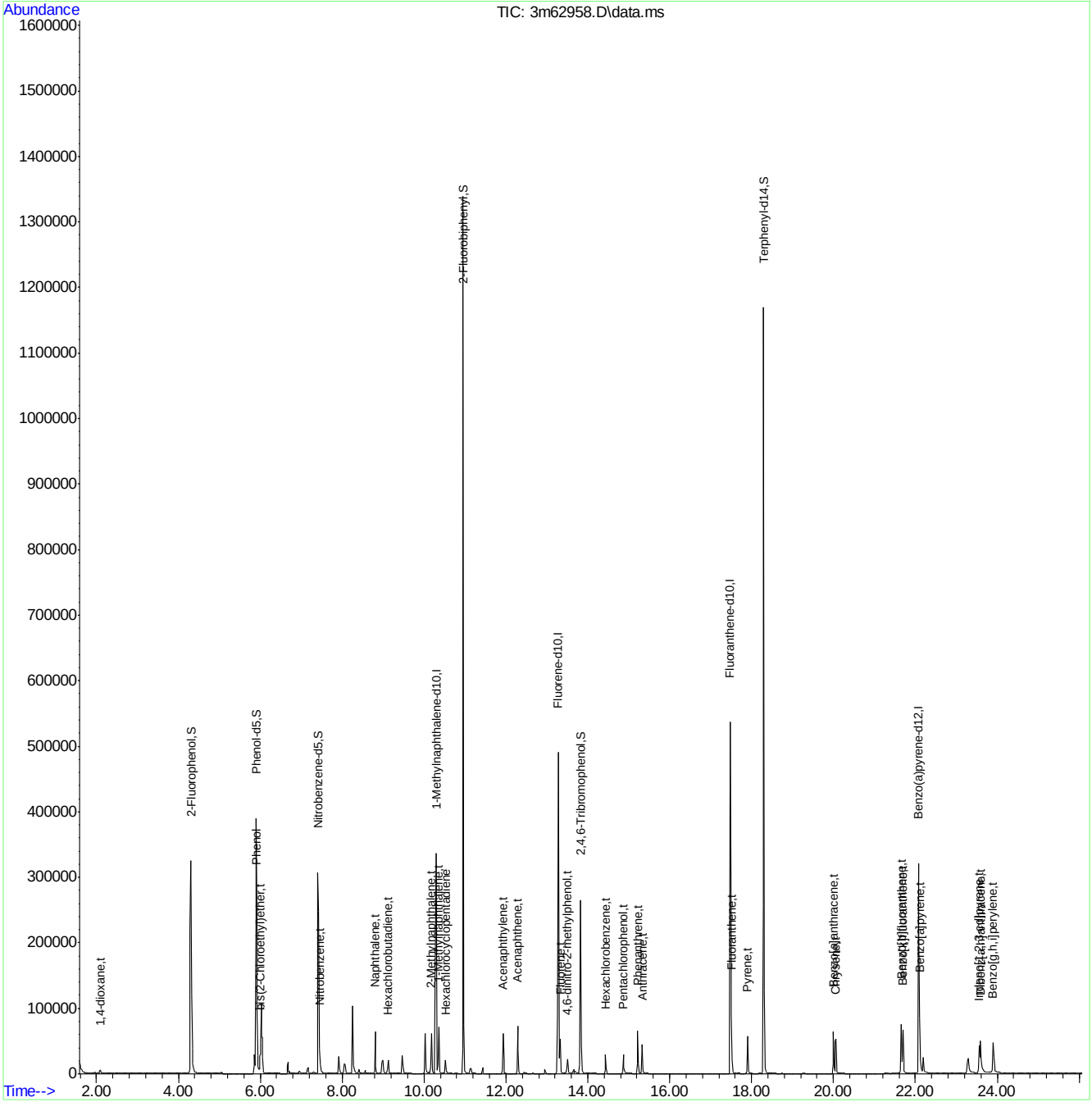
7

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2975\
Data File : 3m62958.D
Acq On : 14 Jul 2016 2:47 pm
Operator : ashleyd
Sample : ic2975-0.5
Misc : op95160a,e3m2975
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 14 15:30:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:30:15 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62962.D
Acq On : 14 Jul 2016 5:18 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 17:53:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.282	150	326153	4.00	ppm	-0.02
14) Fluorene-d10	13.256	176	408071	4.00	ppm	-0.02
21) Fluoranthene-d10	17.463	212	674609	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.052	264	535649	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	5.915	94	292261	4.17	ppm	# 65
18) 4,6-dinitro-2-methylph...	13.483	198	63251	4.49	ppm	80
23) Pentachlorophenol	14.851	266	89609	5.89	ppm	98

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

7.6.10

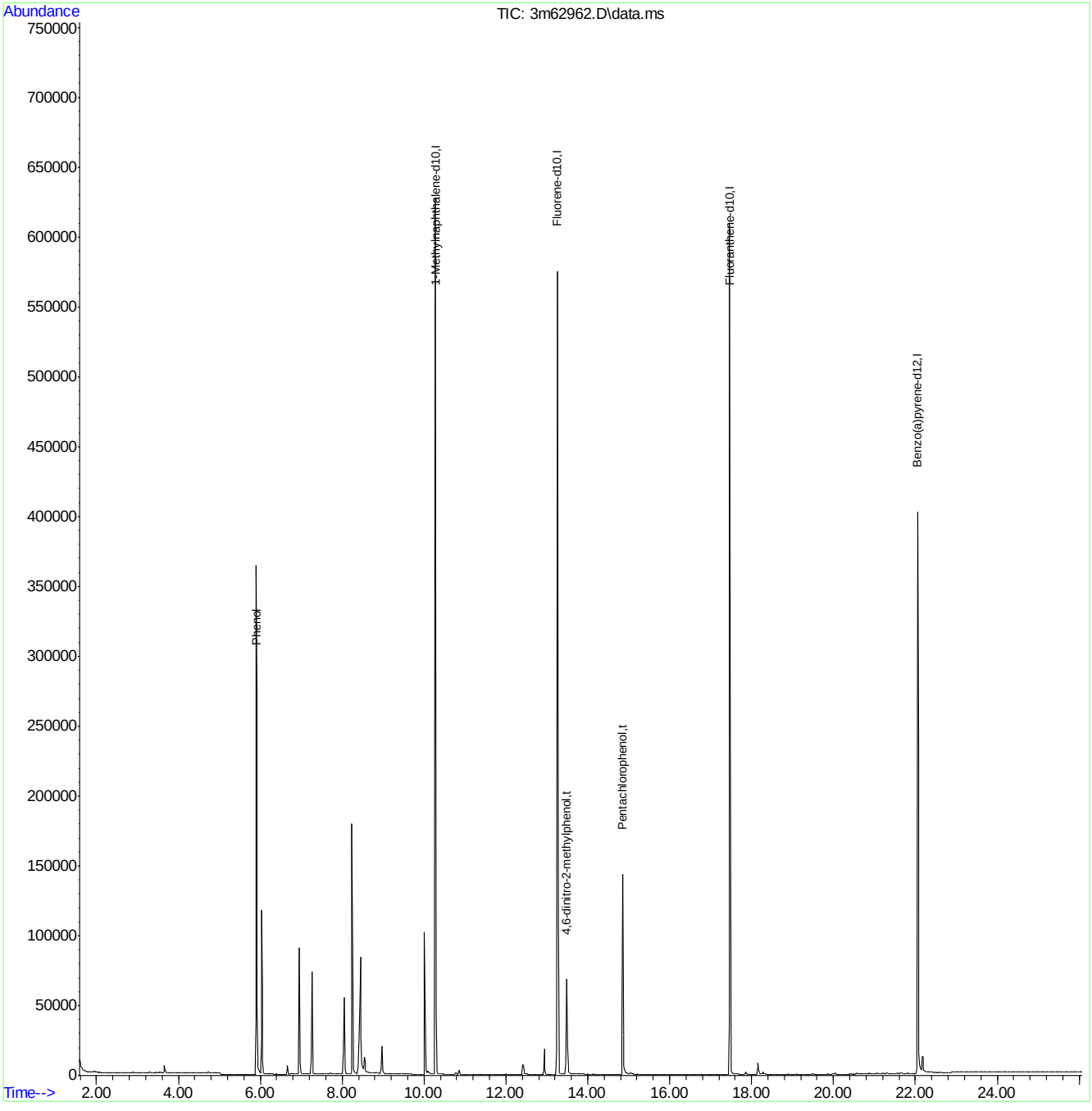
7

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62962.D
Acq On : 14 Jul 2016 5:18 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 17:53:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration



M3M2975SIM.M Thu Jul 14 17:53:16 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62963.D
Acq On : 14 Jul 2016 5:51 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 18:16:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.281	150	300470	4.00	ppm	-0.02
14) Fluorene-d10	13.256	176	378084	4.00	ppm	-0.02
21) Fluoranthene-d10	17.463	212	606745	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.052	264	480039	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	2.097	88	13689	0.83	ppm	80
6) bis(2-Chloroethyl)ether	5.988	93	49746	1.04	ppm	81
8) Nitrobenzene	7.448	77	47032	0.80	ppm #	44
9) Naphthalene	8.803	128	146732	0.83	ppm	92
10) Hexachlorobutadiene	9.105	225	31565	1.00	ppm	77
11) 2-Methylnaphthalene	10.158	141	91200	0.99	ppm #	70
13) Hexachlorocyclopentadiene	10.528	237	15493	0.70	ppm	79
16) Acenaphthylene	11.915	152	156116	1.25	ppm	95
17) Acenaphthene	12.271	153	103254	1.26	ppm	91
19) Fluorene	13.313	166	120577	1.32	ppm	88
22) Hexachlorobenzene	14.418	284	38185	1.18	ppm	97
24) Phenanthrene	15.207	178	165938	1.24	ppm	99
25) Anthracene	15.315	178	146697	1.16	ppm	88
26) Fluoranthene	17.494	202	195403	1.18	ppm	99
27) Pyrene	17.881	202	193884	1.24	ppm	99
29) Benzo[a]anthracene	19.982	228	167952	1.29	ppm	99
30) Chrysene	20.028	228	160042	1.16	ppm	99
32) Benzo[b]fluoranthene	21.638	252	177150	1.14	ppm	98
33) Benzo[k]fluoranthene	21.675	252	167982	1.19	ppm	100
34) Benzo[a]pyrene	22.089	252	163851	1.14	ppm	98
35) Indeno[1,2,3-cd]pyrene	23.538	276	171257	1.17	ppm	97
36) Dibenz[a,h]anthracene	23.575	278	135123	1.11	ppm	90
37) Benzo[g,h,i]perylene	23.876	276	149889	1.13	ppm	99

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

7.6.11

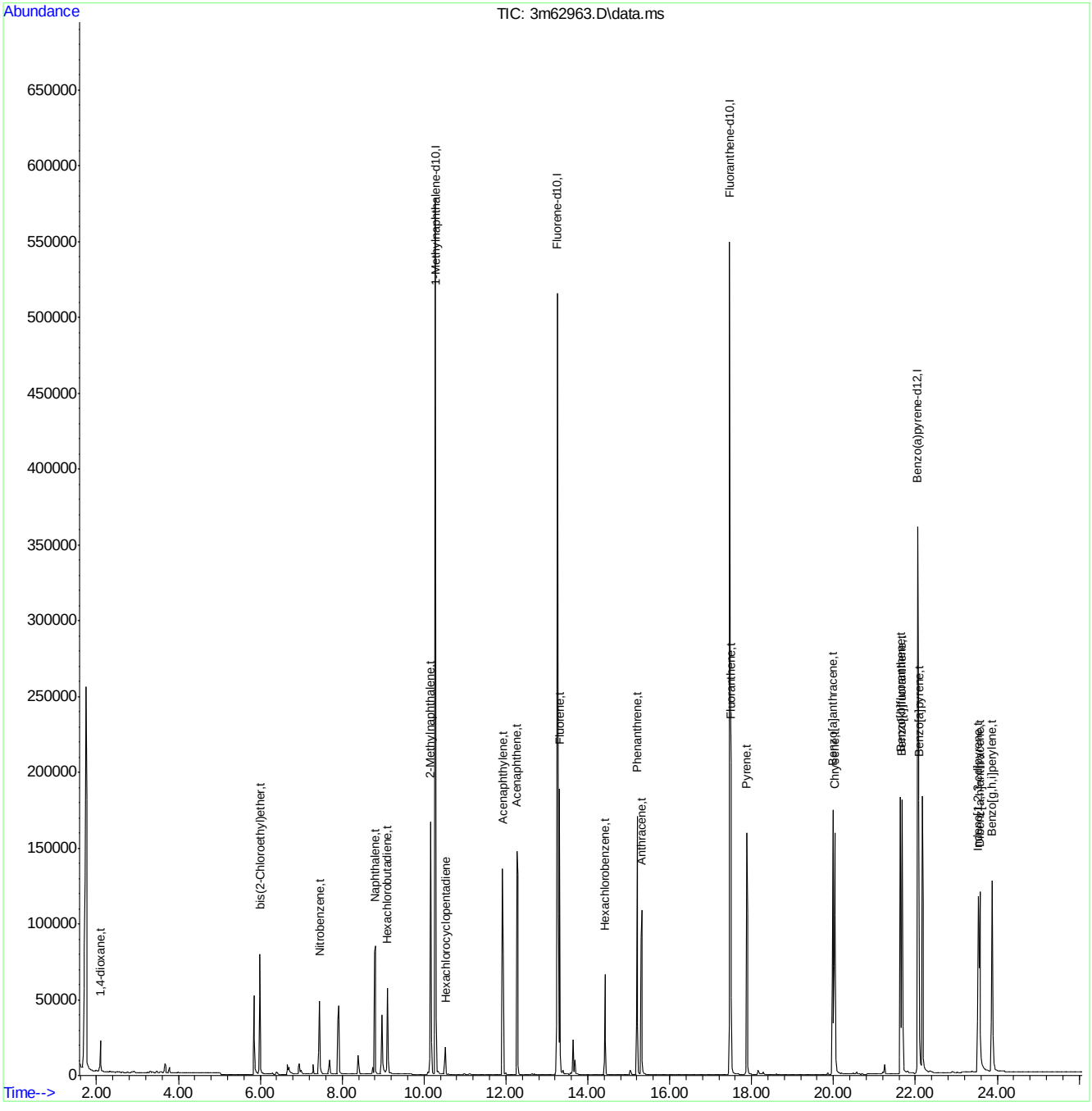
7

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2976\
Data File : 3m62963.D
Acq On : 14 Jul 2016 5:51 pm
Operator : ashleyd
Sample : icv2975-1.0
Misc : op95160a,e3m2976
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 18:16:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Thu Jul 14 15:32:15 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/29/16 16:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63327.D
Acq On : 29 Jul 2016 8:52 am
Operator : shaniceg
Sample : cc2975-0.5
Misc : op95160a,e3m3000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 15:14:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jul 29 09:25:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.220	150	326122	4.00	ppm	-0.02
14) Fluorene-d10	13.220	176	426045	4.00	ppm	0.08
21) Fluoranthene-d10	17.449	212	672323	4.00	ppm	-0.02
31) Benzo(a)pyrene-d12	22.072	264	461460	4.00	ppm	-0.04
System Monitoring Compounds						
3) 2-Fluorophenol	4.229	112	383943	8.46	ppm	-0.05
Spiked Amount 50.000			Recovery	=	16.92%	
4) Phenol-d5	5.843	99	593035	8.83	ppm	-0.04
Spiked Amount 50.000			Recovery	=	17.66%	
7) Nitrobenzene-d5	7.335	82	636942	10.11	ppm	-0.05
Spiked Amount 50.000			Recovery	=	20.22%	
15) 2-Fluorobiphenyl	10.897	172	1109513	9.60	ppm	0.03
Spiked Amount 50.000			Recovery	=	19.20%	
20) 2,4,6-Tribromophenol	13.785	330	142737	8.01	ppm	0.08
Spiked Amount 50.000			Recovery	=	16.02%	
28) Terphenyl-d14	18.268	244	1057150	10.30	ppm	-0.03
Spiked Amount 50.000			Recovery	=	20.60%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.020	88	8668	0.48	ppm #	75
5) Phenol	5.867	94	162659	2.32	ppm #	89
6) bis(2-Chloroethyl)ether	5.903	93	24955	0.48	ppm	75
8) Nitrobenzene	7.372	77	34054	0.53	ppm	71
9) Naphthalene	8.728	128	79803	0.42	ppm	97
10) Hexachlorobutadiene	9.029	225	14130	0.41	ppm	83
11) 2-Methylnaphthalene	10.097	141	47920	0.48	ppm #	68
12) 1-Methylnaphthalene	10.281	141	51360	0.47	ppm	73
13) Hexachlorocyclopentadiene	10.446	237	6361	0.38	ppm	92
16) Acenaphthylene	11.869	152	84057	0.60	ppm	99
17) Acenaphthene	12.225	153	53475	0.58	ppm	98
18) 4,6-dinitro-2-methylph...	13.484	198	20586	1.71	ppm #	61
19) Fluorene	13.277	166	56272	0.55	ppm	96
22) Hexachlorobenzene	14.389	284	16897	0.47	ppm	98
23) Pentachlorophenol	14.837	266	22539	1.82	ppm	90
24) Phenanthrene	15.177	178	91511	0.61	ppm	100
25) Anthracene	15.286	178	86409	0.62	ppm	91
26) Fluoranthene	17.480	202	101961	0.55	ppm	99
27) Pyrene	17.882	202	103002	0.59	ppm	91
29) Benzo[a]anthracene	19.983	228	80097	0.55	ppm	97
30) Chrysene	20.045	228	83398	0.55	ppm	88
32) Benzo[b]fluoranthene	21.658	252	97974	0.65	ppm	86
33) Benzo[k]fluoranthene	21.696	252	50395m	0.37	ppm	
34) Benzo[a]pyrene	22.110	252	68132	0.49	ppm	99
35) Indeno[1,2,3-cd]pyrene	23.558	276	75679	0.54	ppm	96
36) Dibenz[a,h]anthracene	23.596	278	61846	0.53	ppm	99
37) Benzo[g,h,i]perylene	23.915	276	66536	0.52	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63327.D
Acq On : 29 Jul 2016 8:52 am
Operator : shaniceg
Sample : cc2975-0.5
Misc : op95160a,e3m3000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 15:14:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jul 29 09:25:14 2016
Response via : Initial Calibration

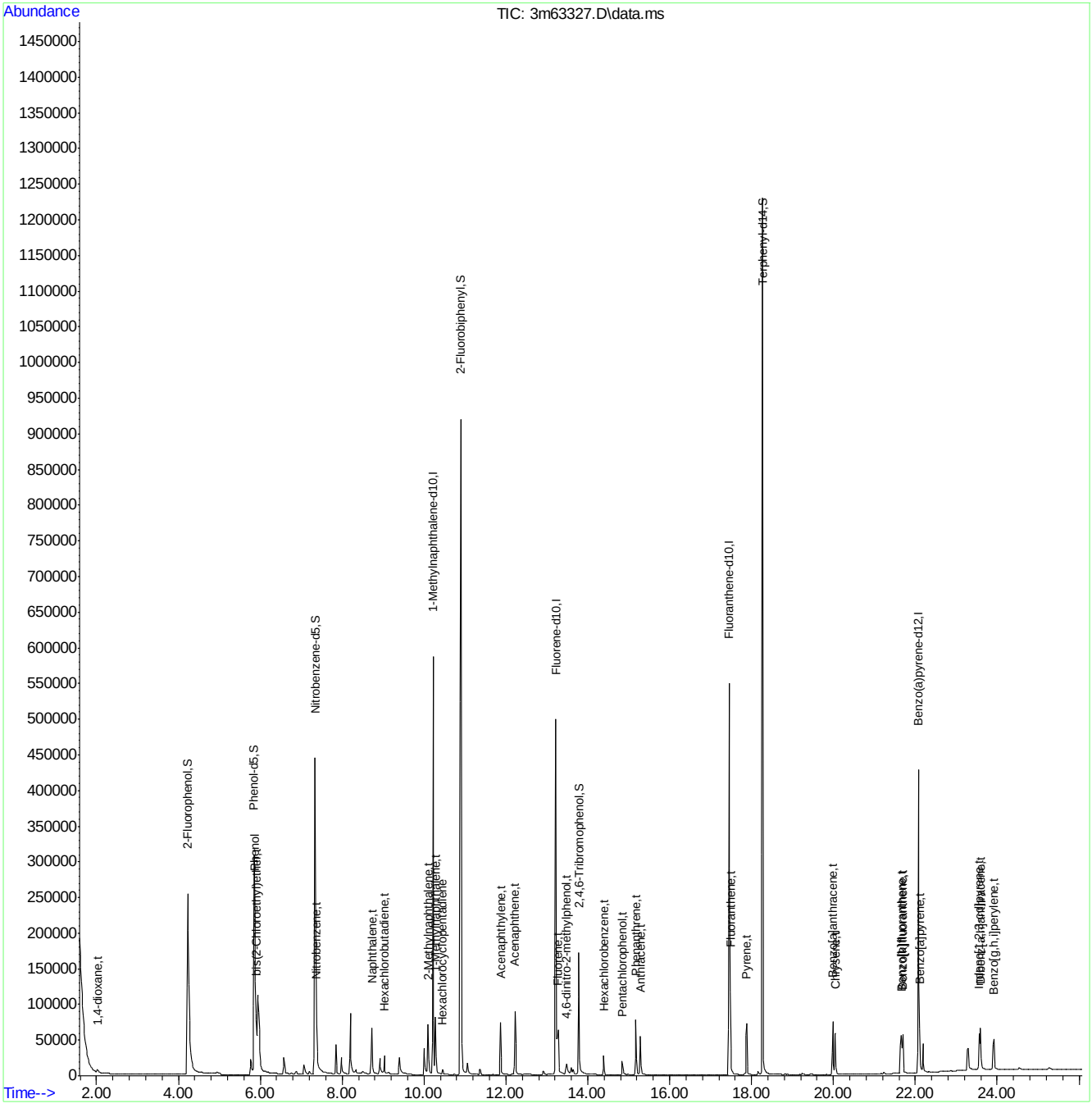
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63327.D
Acq On : 29 Jul 2016 8:52 am
Operator : shaniceg
Sample : cc2975-0.5
Misc : op95160a,e3m3000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 15:14:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jul 29 09:25:14 2016
Response via : Initial Calibration



Manual Integration Approval Summary

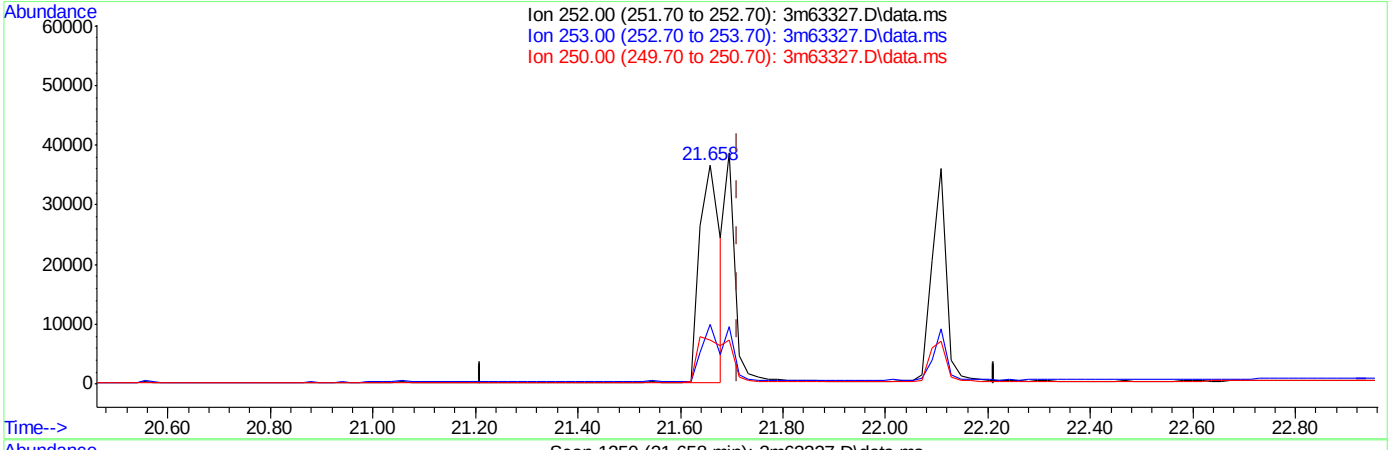
Sample Number:	E3M3000-CC2975	**Method:**	SW846 8270D BY SIM
Lab FileID:	3M63327.D	**Analyst approved:**	07/29/16 15:24 Ashley Dye
Injection Time:	07/29/16 08:52	**Supervisor approved:**	07/29/16 16:15 Nina Pandya

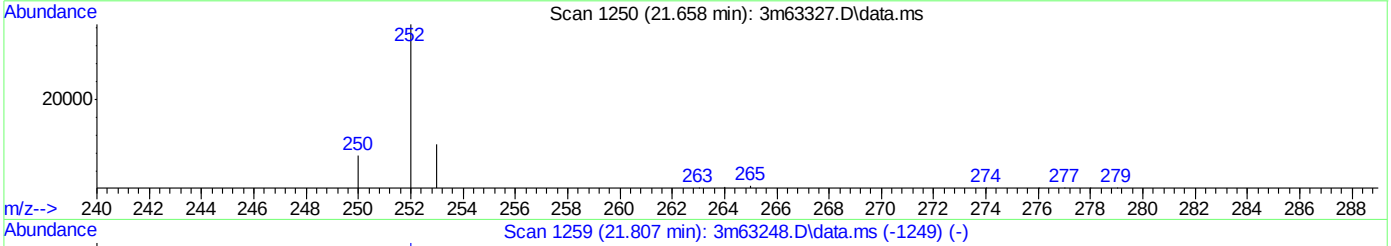
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(k)fluoranthene	207-08-9		21.70	Overlapping peak

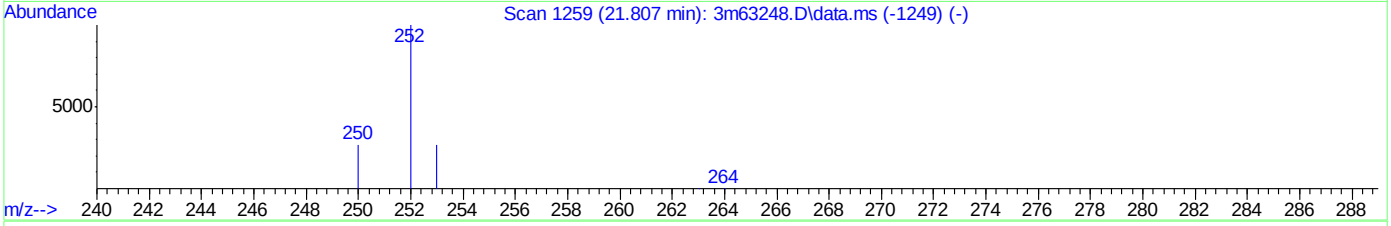
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63327.D
Acq On : 29 Jul 2016 8:52 am
Operator : shaniceg
Sample : cc2975-0.5
Misc : op95160a,e3m3000
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 15:13:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jul 29 09:25:14 2016
Response via : Initial Calibration







TIC: 3m63327.D\data.ms

(33) Benzo[k]fluoranthene (t)

21.658min (-0.053) 0.72ppm

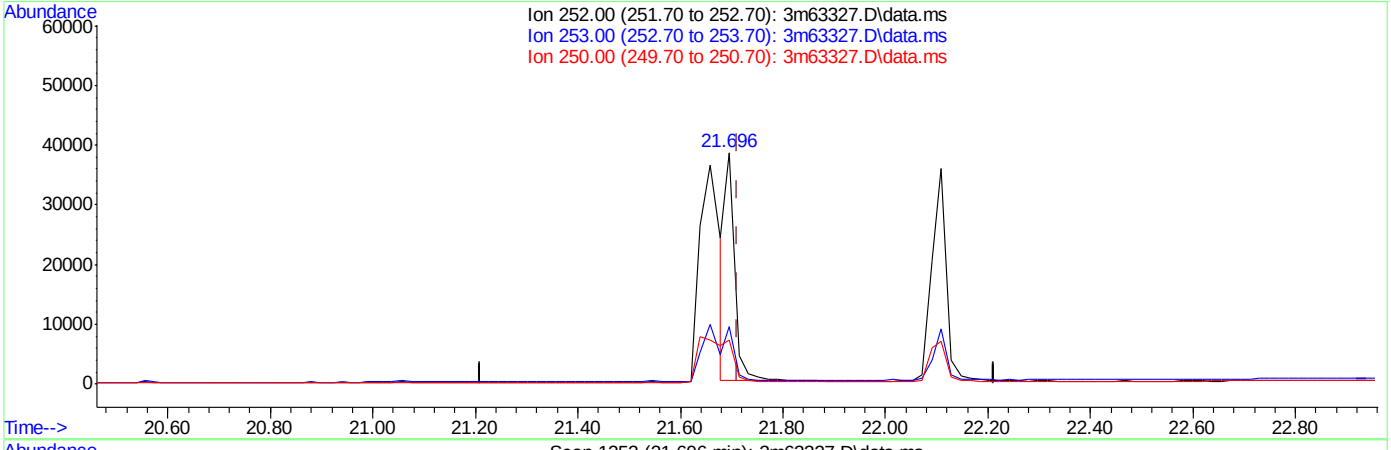
response 97974

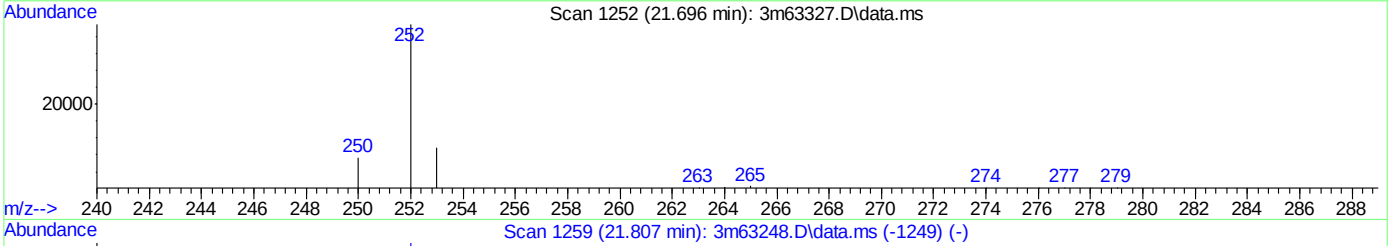
Ion	Exp%	Act%
252.00	100	100
253.00	20.50	29.60
250.00	22.00	16.67
0.00	0.00	0.00

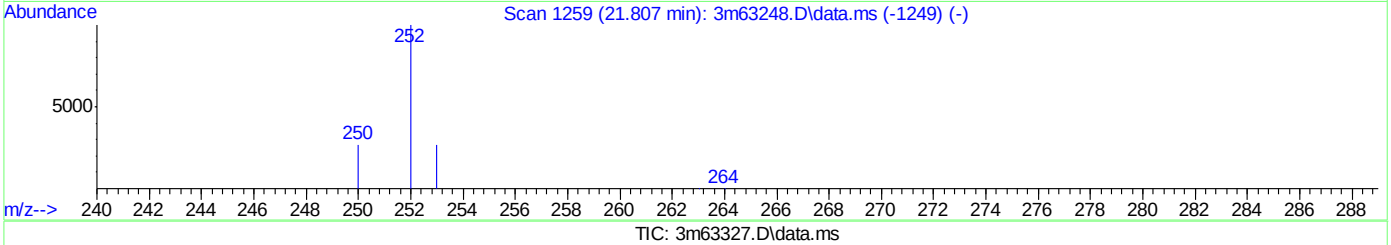
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E3M3000\
Data File : 3m63327.D
Acq On    : 29 Jul 2016   8:52 am
Operator  : shaniceg
Sample    : cc2975-0.5
Misc      : op95160a,e3m3000
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Jul 29 15:13:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title  : Semi Volatile Extractables by GC/MS
QLast Update : Fri Jul 29 09:25:14 2016
Response via : Initial Calibration
```







TIC: 3m63327.D\data.ms

(33) Benzo[k]fluoranthene (t)

21.696min (-0.016) 0.37ppm m

response 50395

Ion	Exp%	Act%
252.00	100	100
253.00	20.50	24.93
250.00	22.00	19.02
0.00	0.00	0.00

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63391.D
Acq On : 2 Aug 2016 11:08 am
Operator : SHANICEG
Sample : cc2975-0.5
Misc : op95160a,e3m3004
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:47:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.097	150	360456	4.00	ppm	-0.12
14) Fluorene-d10	13.107	176	494837	4.00	ppm	-0.04
21) Fluoranthene-d10	17.341	212	824313	4.00	ppm	-0.08
31) Benzo(a)pyrene-d12	21.978	264	390331	4.00	ppm	-0.09
System Monitoring Compounds						
3) 2-Fluorophenol	4.152	112	354030	7.06	ppm	-0.12
Spiked Amount 50.000			Recovery	=	14.12%	
4) Phenol-d5	5.770	99	595319	8.02	ppm	-0.10
Spiked Amount 50.000			Recovery	=	16.04%	
7) Nitrobenzene-d5	7.222	82	680518	9.77	ppm	-0.15
Spiked Amount 50.000			Recovery	=	19.54%	
15) 2-Fluorobiphenyl	10.774	172	1386464	10.32	ppm	-0.10
Spiked Amount 50.000			Recovery	=	20.64%	
20) 2,4,6-Tribromophenol	13.673	330	165477	7.99	ppm	-0.03
Spiked Amount 50.000			Recovery	=	15.98%	
28) Terphenyl-d14	18.160	244	1245742	9.90	ppm	-0.09
Spiked Amount 50.000			Recovery	=	19.80%	
Target Compounds						Qvalue
2) 1,4-dioxane	1.927	88	8511	0.43	ppm #	1
5) Phenol	5.783	94	156778	2.02	ppm	92
8) Nitrobenzene	7.259	77	36899	0.52	ppm	75
9) Naphthalene	8.615	128	90364	0.43	ppm	96
10) Hexachlorobutadiene	8.916	225	15569	0.41	ppm	98
11) 2-Methylnaphthalene	9.995	141	52287	0.47	ppm	83
12) 1-Methylnaphthalene	10.179	141	56795	0.47	ppm	98
13) Hexachlorocyclopentadiene	10.343	237	2040	0.24	ppm #	75
16) Acenaphthylene	11.746	152	104218	0.64	ppm	97
17) Acenaphthene	12.117	153	65516	0.61	ppm	81
18) 4,6-dinitro-2-methylph...	13.390	198	11849	1.01	ppm #	74
19) Fluorene	13.145	166	73692	0.62	ppm	73
22) Hexachlorobenzene	14.265	284	20004	0.45	ppm	90
23) Pentachlorophenol	14.745	266	26094	1.74	ppm	97
24) Phenanthrene	15.054	178	101134	0.55	ppm	95
25) Anthracene	15.162	178	111512	0.65	ppm	95
26) Fluoranthene	17.372	202	122693	0.54	ppm	99
27) Pyrene	17.774	202	124758	0.59	ppm	92
29) Benzo[a]anthracene	19.875	228	86584	0.49	ppm	96
30) Chrysene	19.937	228	101417	0.54	ppm	96
32) Benzo[b]fluoranthene	21.545	252	59535	0.47	ppm	87
33) Benzo[k]fluoranthene	21.583	252	68699	0.60	ppm	85
34) Benzo[a]pyrene	21.997	252	60512	0.52	ppm	89
35) Indeno[1,2,3-cd]pyrene	23.464	276	59866	0.50	ppm	98
36) Dibenz[a,h]anthracene	23.483	278	47039	0.48	ppm	92
37) Benzo[g,h,i]perylene	23.803	276	52852	0.49	ppm	98

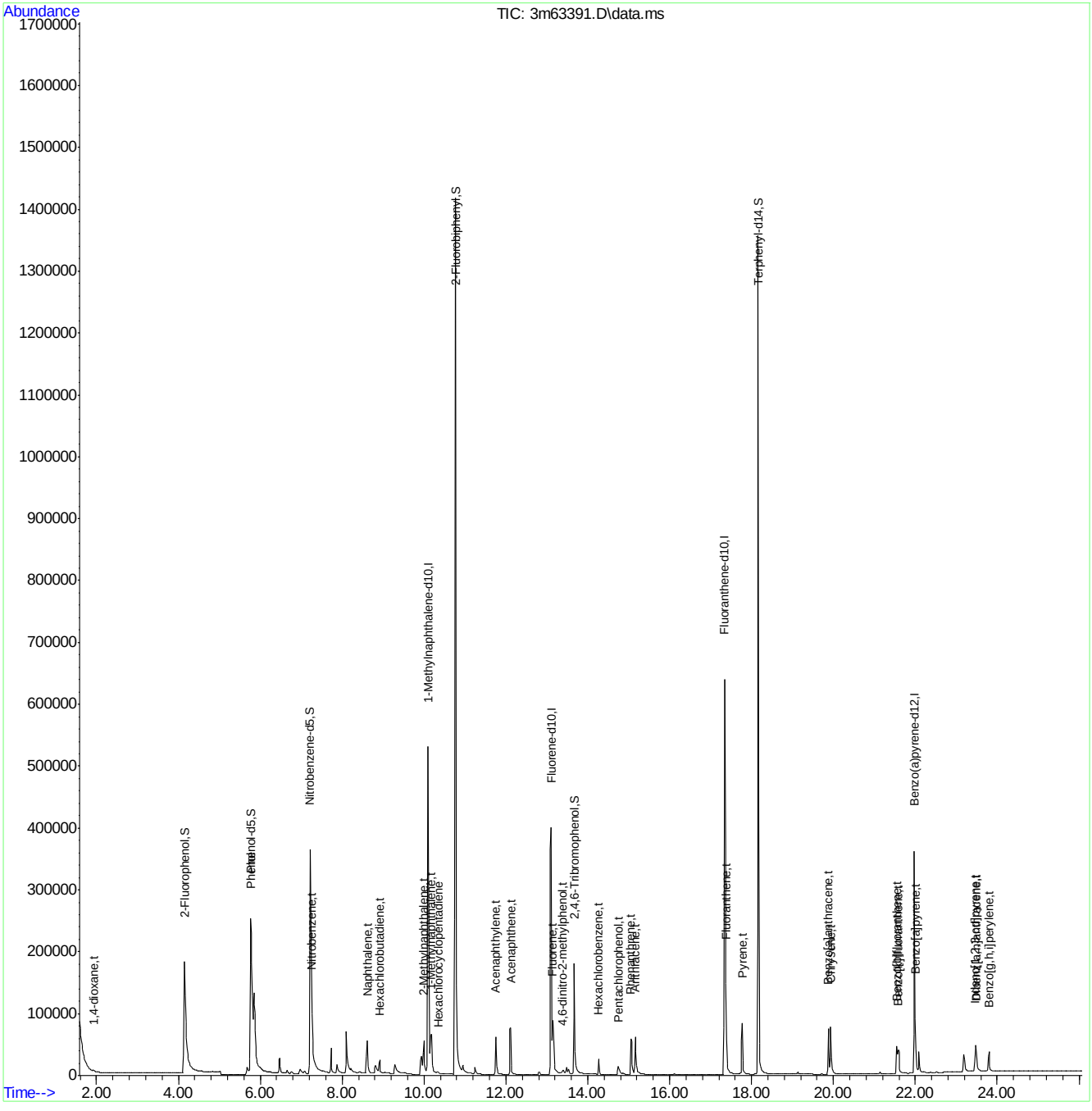
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63391.D
Acq On : 2 Aug 2016 11:08 am
Operator : SHANICEG
Sample : cc2975-0.5
Misc : op95160a,e3m3004
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:47:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration



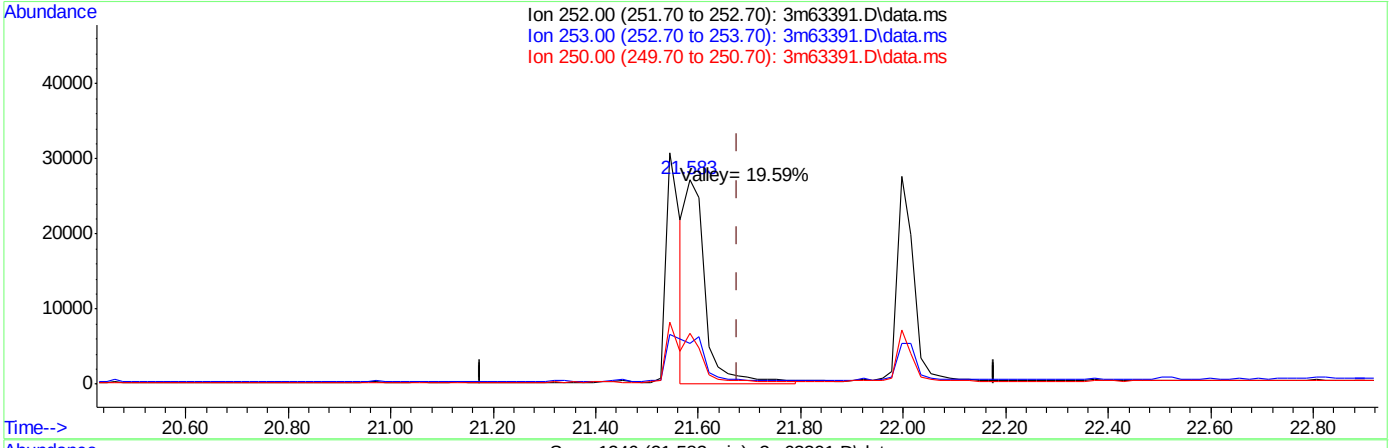
M3M2975SIM.M Tue Aug 02 12:49:04 2016 RPT1 Page: 2

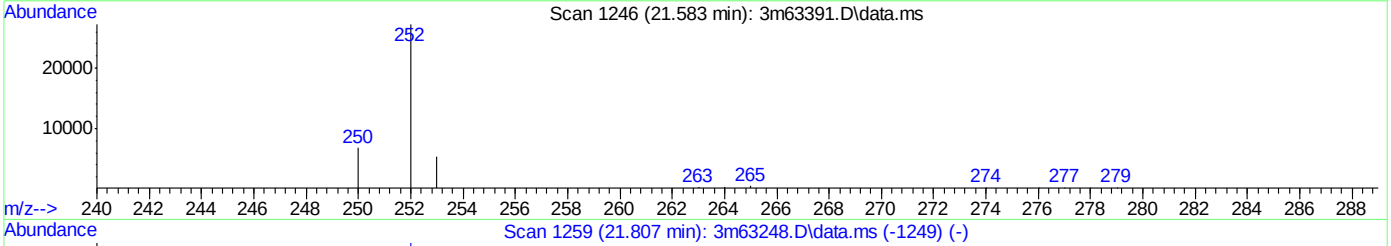
SGS ACCUTEST JC24816

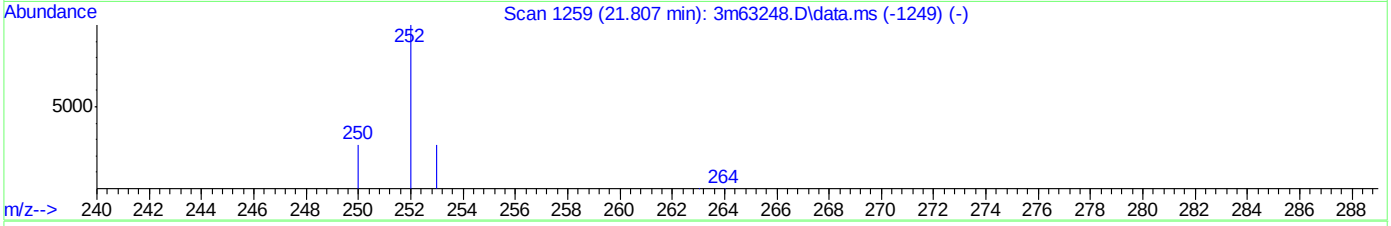
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M3004\
Data File : 3m63391.D
Acq On : 2 Aug 2016 11:08 am
Operator : SHANICEG
Sample : cc2975-0.5
Misc : op95160a,e3m3004
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 11:42:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 08:23:04 2016
Response via : Initial Calibration







TIC: 3m63391.D\data.ms

(33) Benzo[k]fluoranthene (t)

21.583min (-0.094) 0.60ppm

response 68699

Ion	Exp%	Act%
252.00	100	100
253.00	22.10	13.13
250.00	22.50	27.72
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3006\
Data File : 3m63423.D
Acq On : 3 Aug 2016 11:11 am
Operator : shaniceg
Sample : cc2975-0.5
Misc : op95160a,e3m3006
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 03 11:41:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Aug 03 11:38:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.056	150	356282	4.00	ppm	0.00
14) Fluorene-d10	13.051	176	515051	4.00	ppm	0.00
21) Fluoranthene-d10	17.295	212	807464	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	21.940	264	535178	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.106	112	339383	6.84	ppm	-0.10
Spiked Amount 50.000			Recovery	=	13.68%	
4) Phenol-d5	5.722	99	547665	7.47	ppm	-0.05
Spiked Amount 50.000			Recovery	=	14.94%	
7) Nitrobenzene-d5	7.184	82	554647	8.05	ppm	-0.07
Spiked Amount 50.000			Recovery	=	16.10%	
15) 2-Fluorobiphenyl	10.733	172	1325951	9.49	ppm	-0.06
Spiked Amount 50.000			Recovery	=	18.98%	
20) 2,4,6-Tribromophenol	13.616	330	213809	9.92	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.84%	
28) Terphenyl-d14	18.114	244	1311882	10.65	ppm	0.00
Spiked Amount 50.000			Recovery	=	21.30%	
Target Compounds						Qvalue
2) 1,4-dioxane	1.896	88	8410	0.43	ppm #	1
5) Phenol	5.734	94	142694	1.86	ppm #	91
8) Nitrobenzene	7.222	77	30898	0.44	ppm	66
9) Naphthalene	8.559	128	84939	0.41	ppm	97
10) Hexachlorobutadiene	8.860	225	16232	0.44	ppm	69
11) 2-Methylnaphthalene	9.953	141	48909	0.45	ppm	87
12) 1-Methylnaphthalene	10.118	141	58162	0.49	ppm #	64
13) Hexachlorocyclopentadiene	10.282	237	2951	0.26	ppm	87
16) Acenaphthylene	11.715	152	97637	0.57	ppm	97
17) Acenaphthene	12.070	153	61301	0.55	ppm	85
18) 4,6-dinitro-2-methylph...	13.352	198	23895	1.66	ppm #	60
19) Fluorene	13.107	166	71544	0.57	ppm	85
22) Hexachlorobenzene	14.234	284	22713	0.53	ppm	87
23) Pentachlorophenol	14.698	266	24894	1.71	ppm	95
24) Phenanthrene	15.007	178	92511	0.52	ppm	99
25) Anthracene	15.116	178	89463	0.53	ppm	99
26) Fluoranthene	17.326	202	119605	0.54	ppm	97
27) Pyrene	17.728	202	122955	0.59	ppm	95
29) Benzo[a]anthracene	19.844	228	99020	0.57	ppm	93
30) Chrysene	19.891	228	107519	0.59	ppm	95
32) Benzo[b]fluoranthene	21.508	252	90994	0.52	ppm	97
33) Benzo[k]fluoranthene	21.545	252	93480	0.59	ppm	96
34) Benzo[a]pyrene	21.959	252	84424	0.53	ppm	92
35) Indeno[1,2,3-cd]pyrene	23.408	276	85673	0.53	ppm	96
36) Dibenz[a,h]anthracene	23.445	278	70149	0.52	ppm	96
37) Benzo[g,h,i]perylene	23.746	276	74869	0.51	ppm	99

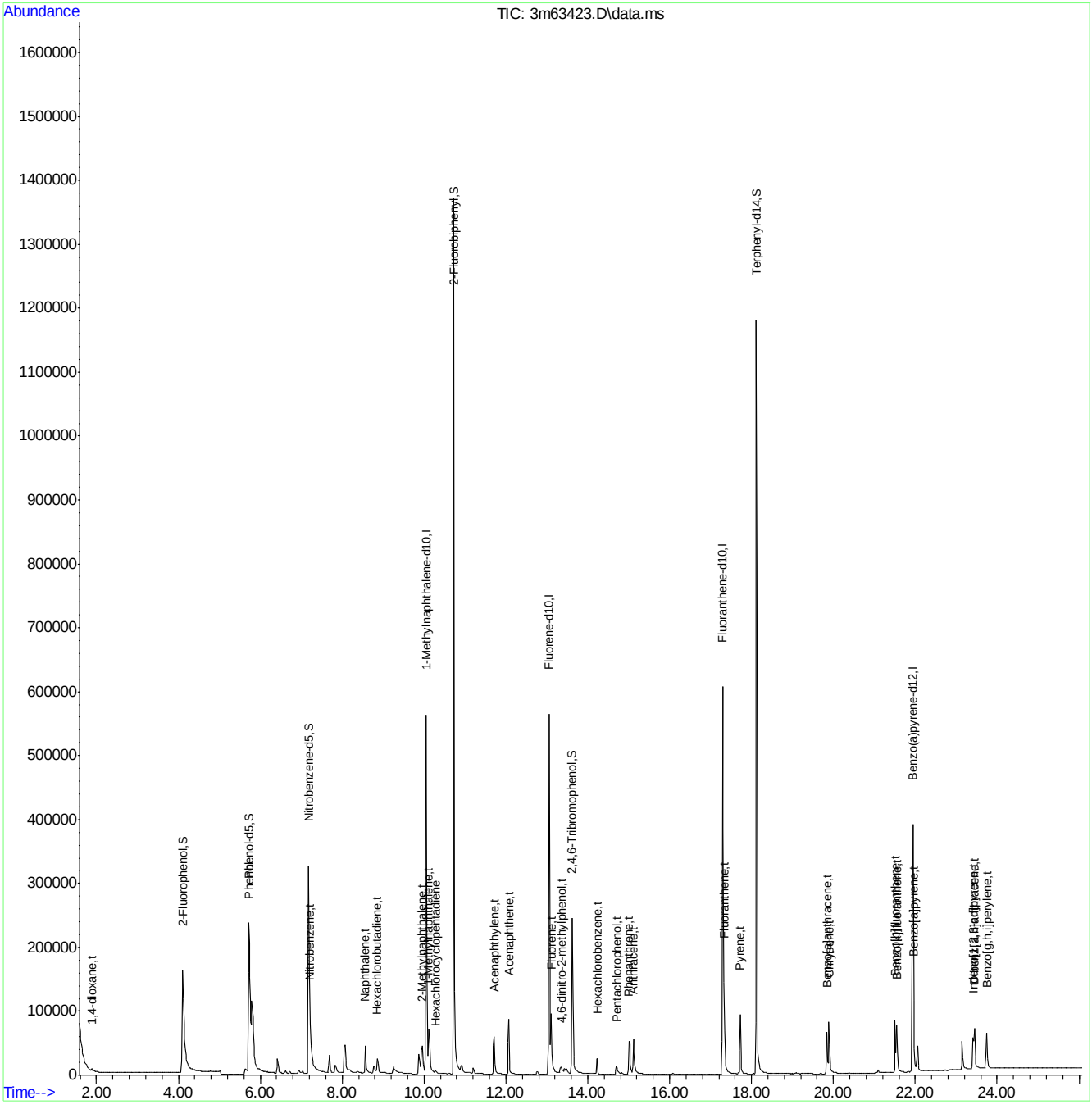
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M3006\
Data File : 3m63423.D
Acq On : 3 Aug 2016 11:11 am
Operator : shaniceg
Sample : cc2975-0.5
Misc : op95160a,e3m3006
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 03 11:41:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2975SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Wed Aug 03 11:38:43 2016
Response via : Initial Calibration



M3M2975SIM.M Wed Aug 03 15:51:15 2016 RPT1 Page: 2

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

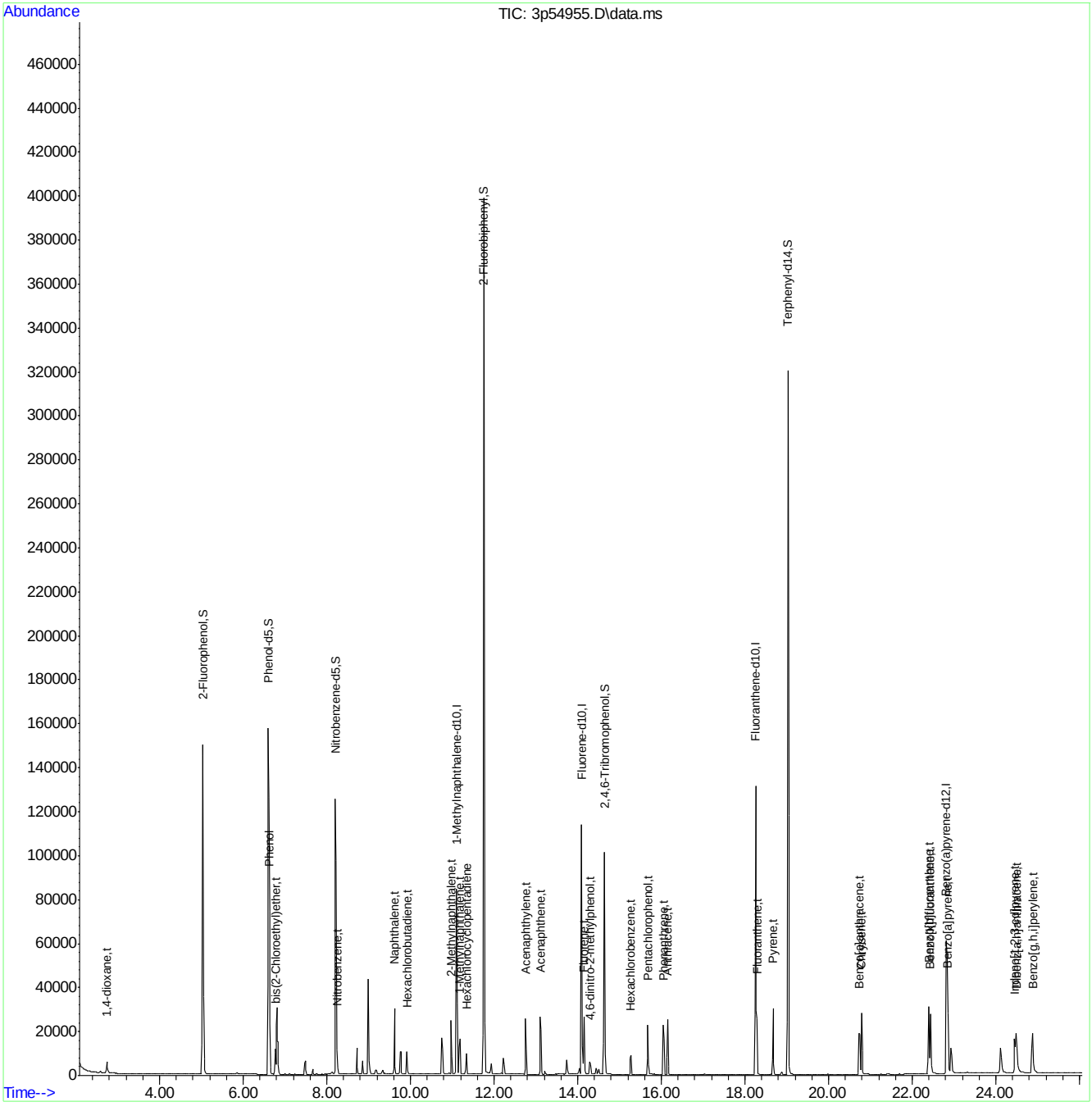
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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

Manual Integration Approval Summary

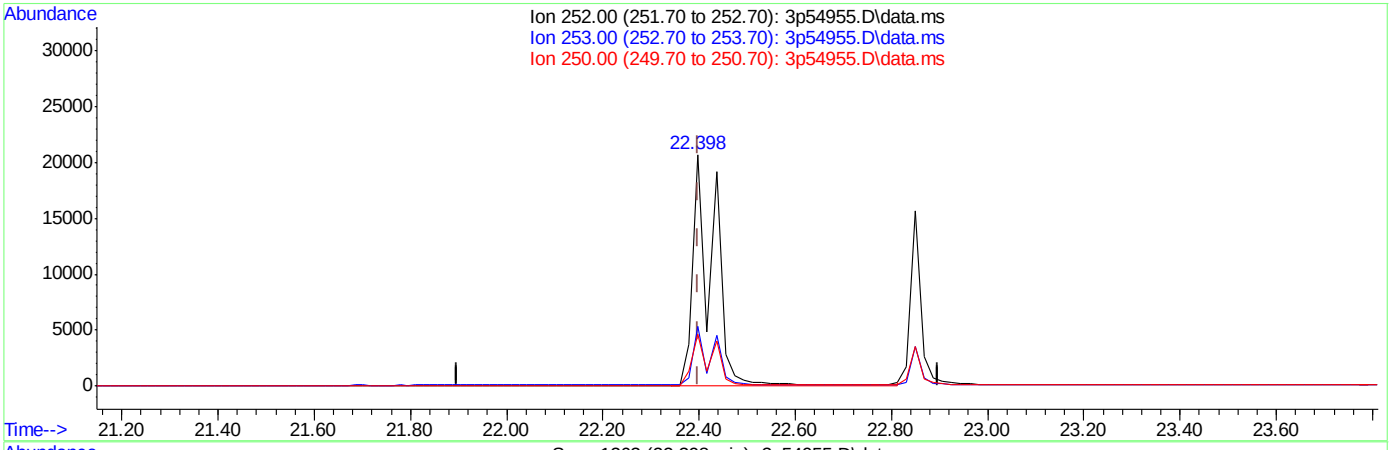
Sample Number:	E3P2503-ICC2503	**Method:**	SW846 8270D BY SIM
Lab FileID:	3P54955.D	**Analyst approved:**	07/11/16 10:13 Ashley Dye
Injection Time:	07/06/16 10:32	**Supervisor approved:**	07/11/16 10:45 Nina Pandya

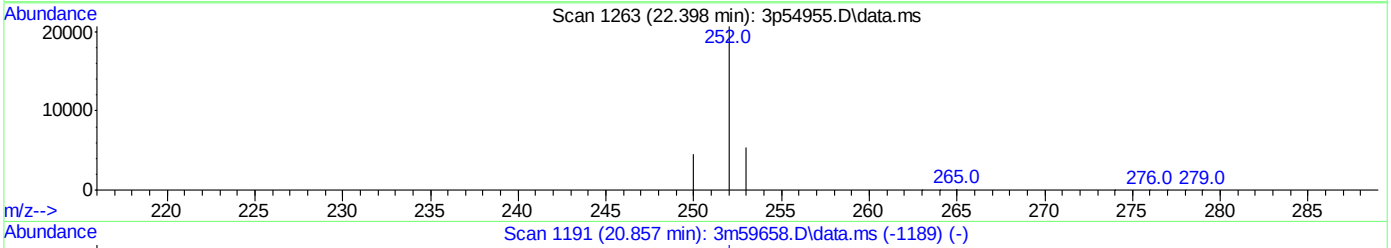
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		22.40	Overlapping peak
Benzo(k)fluoranthene	207-08-9		22.44	Overlapping peak

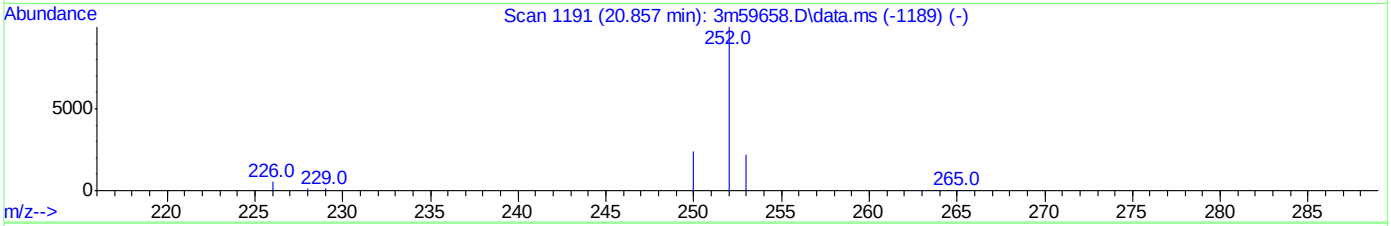
Quantitation Report (Qedit)

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

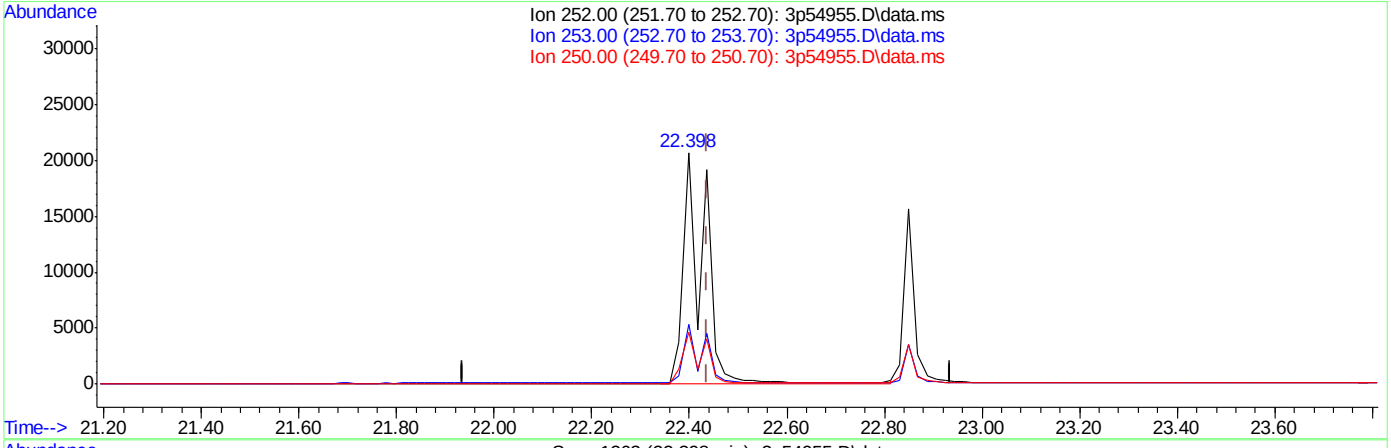
response 60924

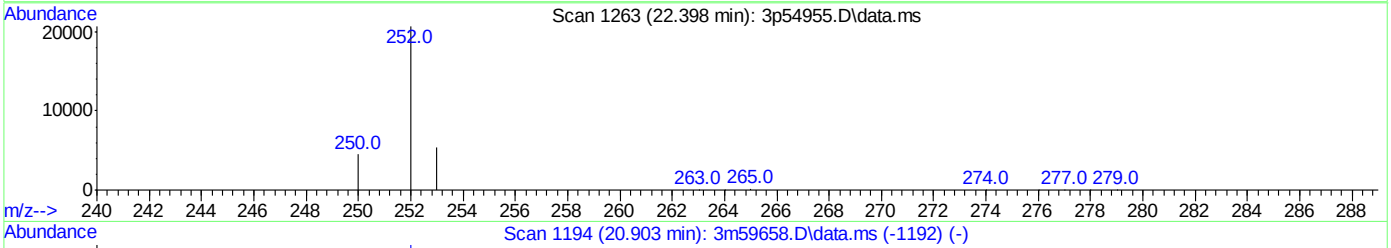
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.36
250.00	23.10	21.99
0.00	0.00	0.00

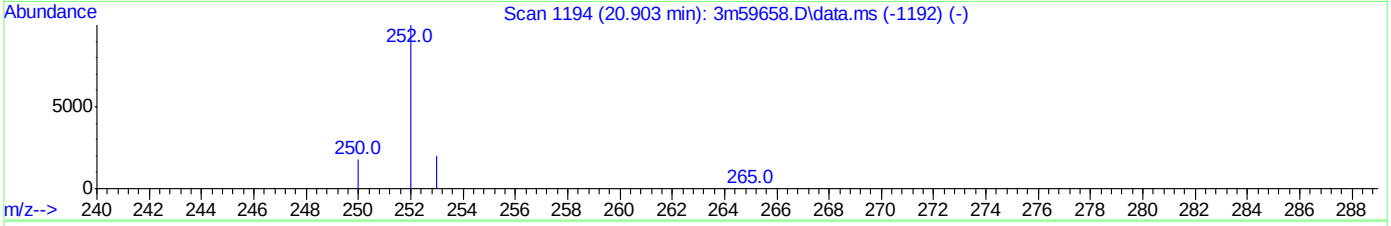
Quantitation Report (Qedit)

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

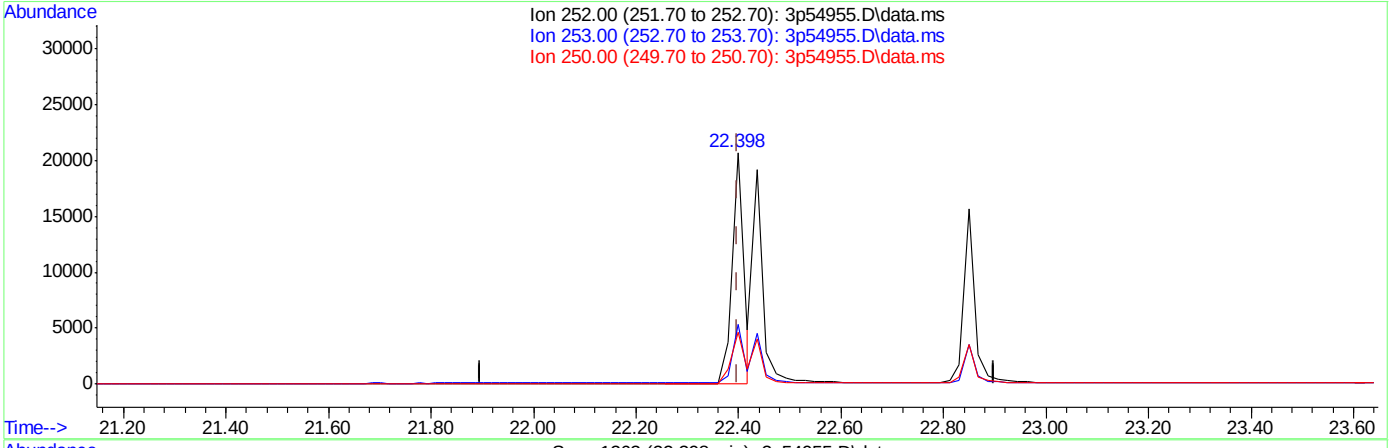
response 60924

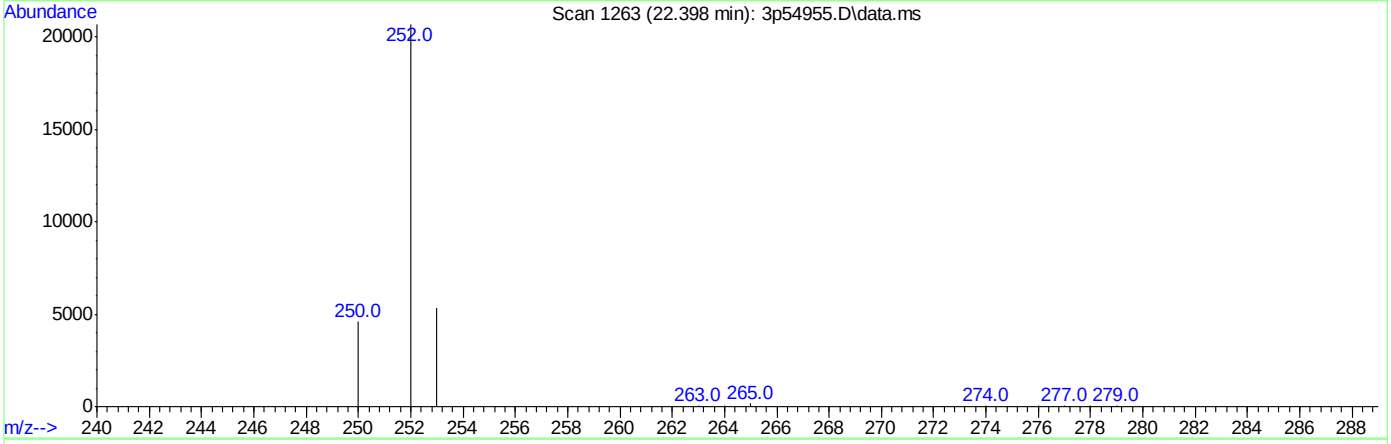
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.36
250.00	23.10	21.99
0.00	0.00	0.00

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

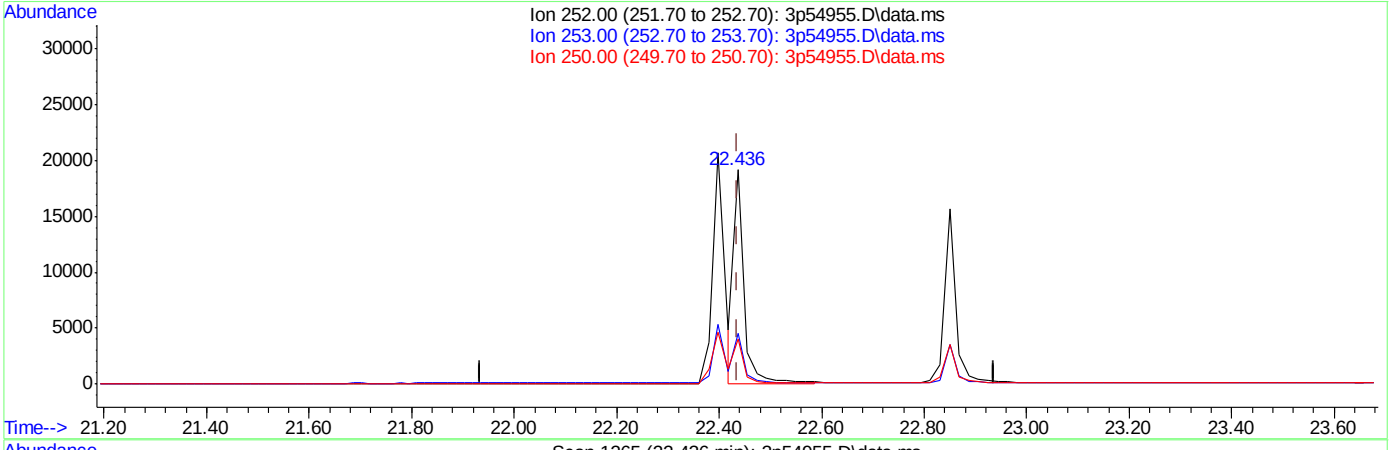
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.77
250.00	23.10	22.24
0.00	0.00	0.00

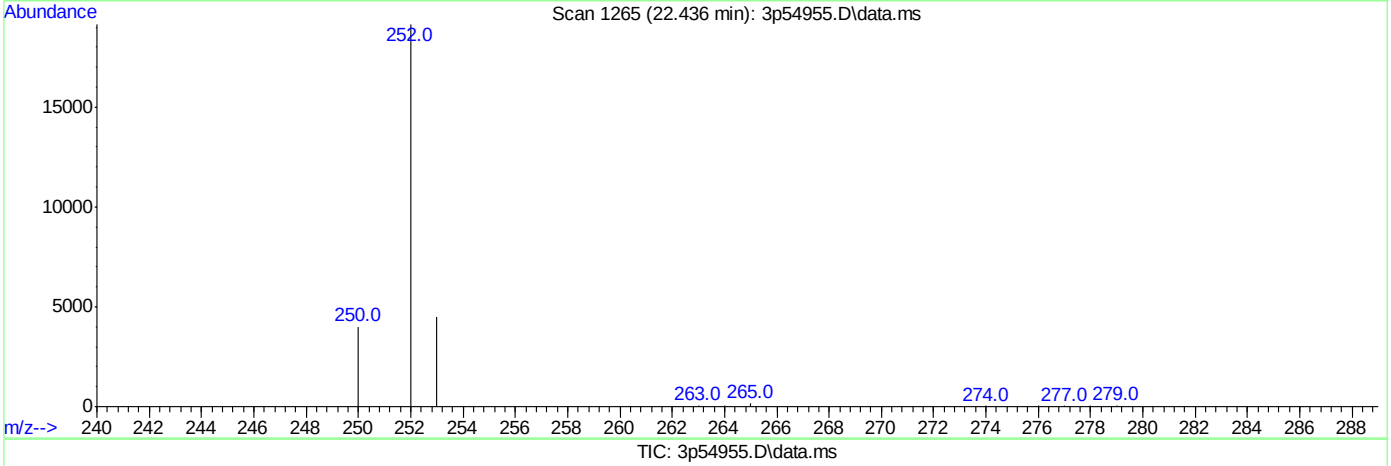
SGS ACCUTEST JC24816

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

SGS ACCUTEST JC24816

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

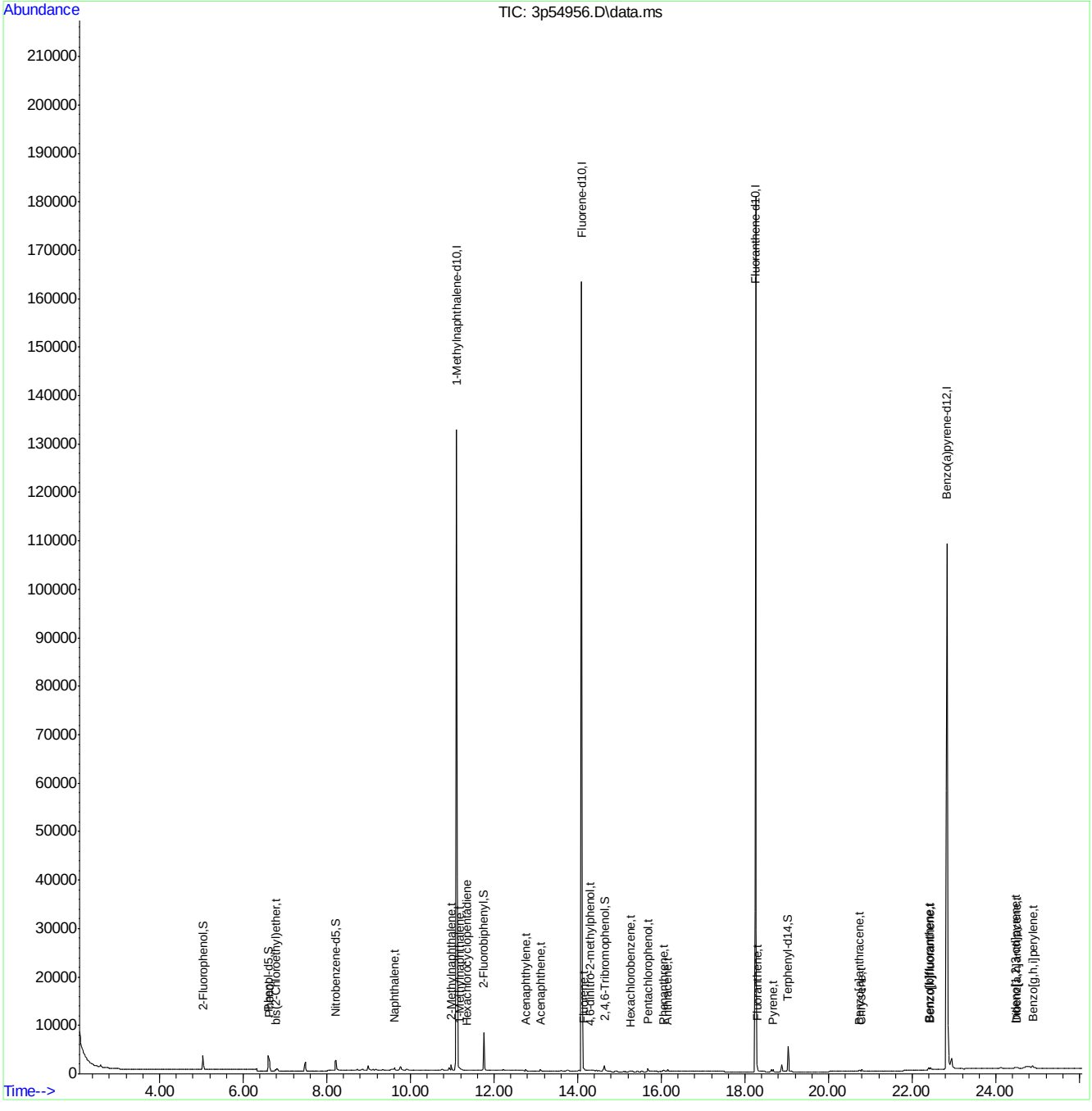
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

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



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

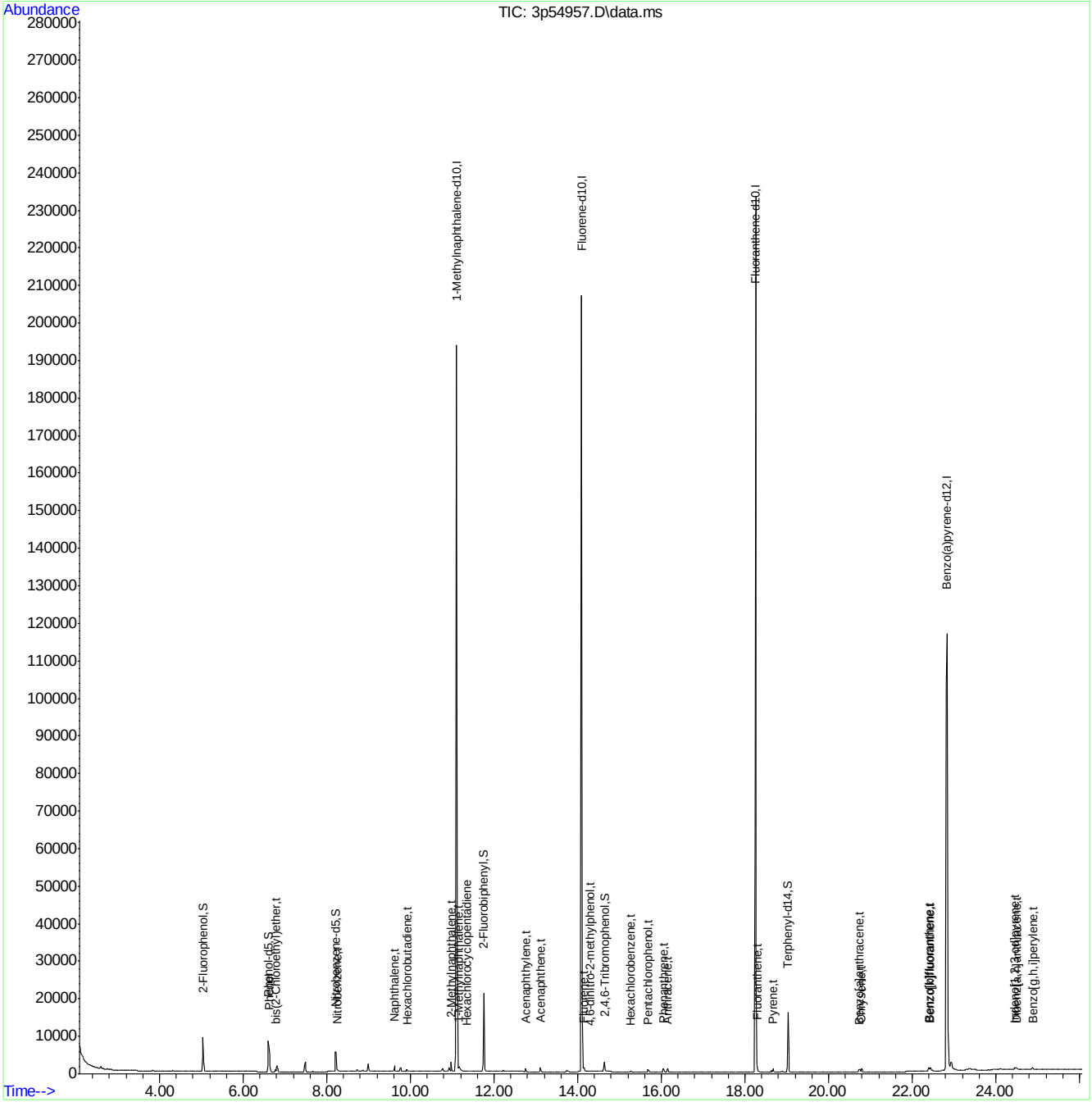
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

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

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

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

7.6.18

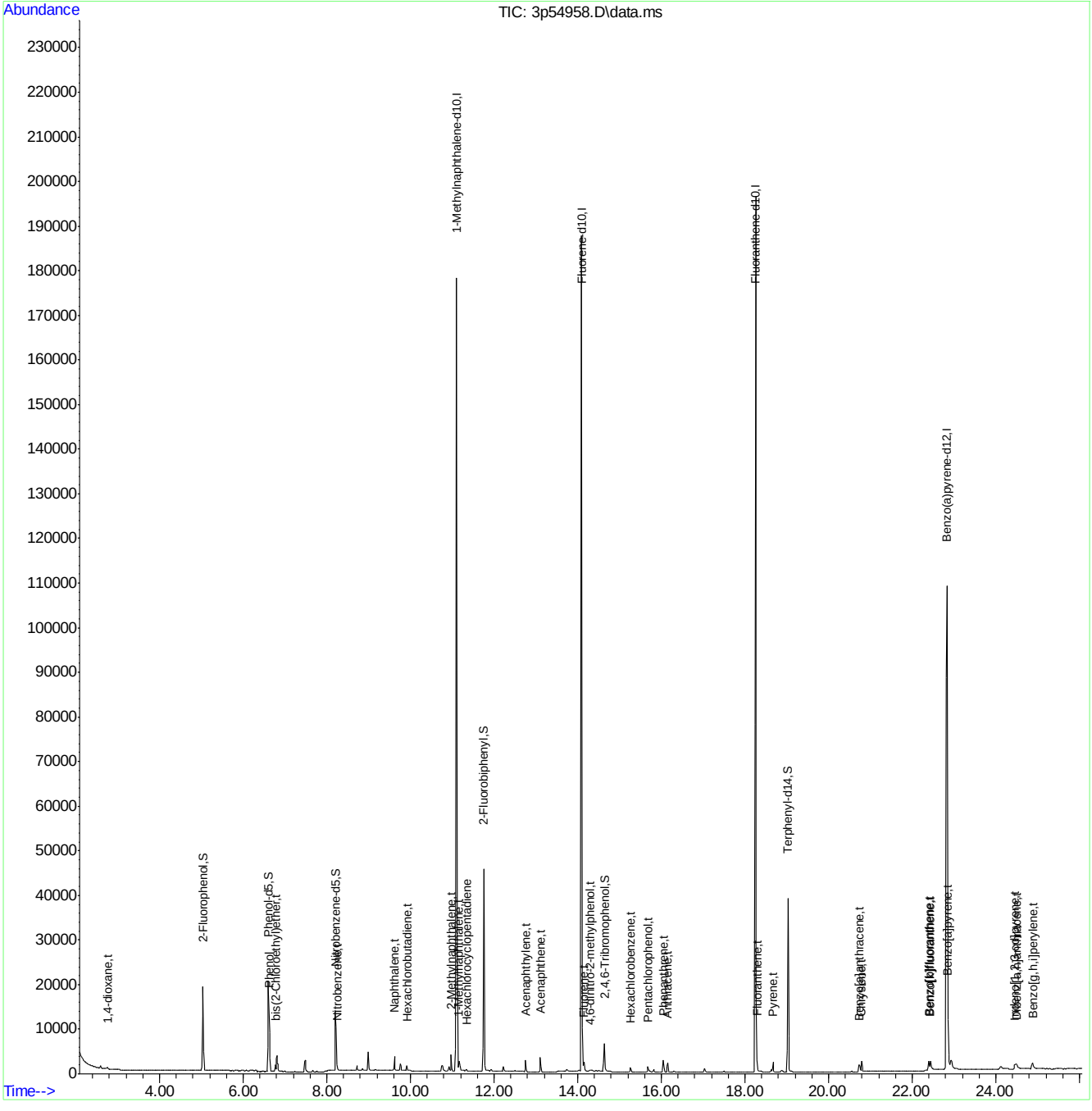
7

SGS ACCUTEST JC24816

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 JC24816

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

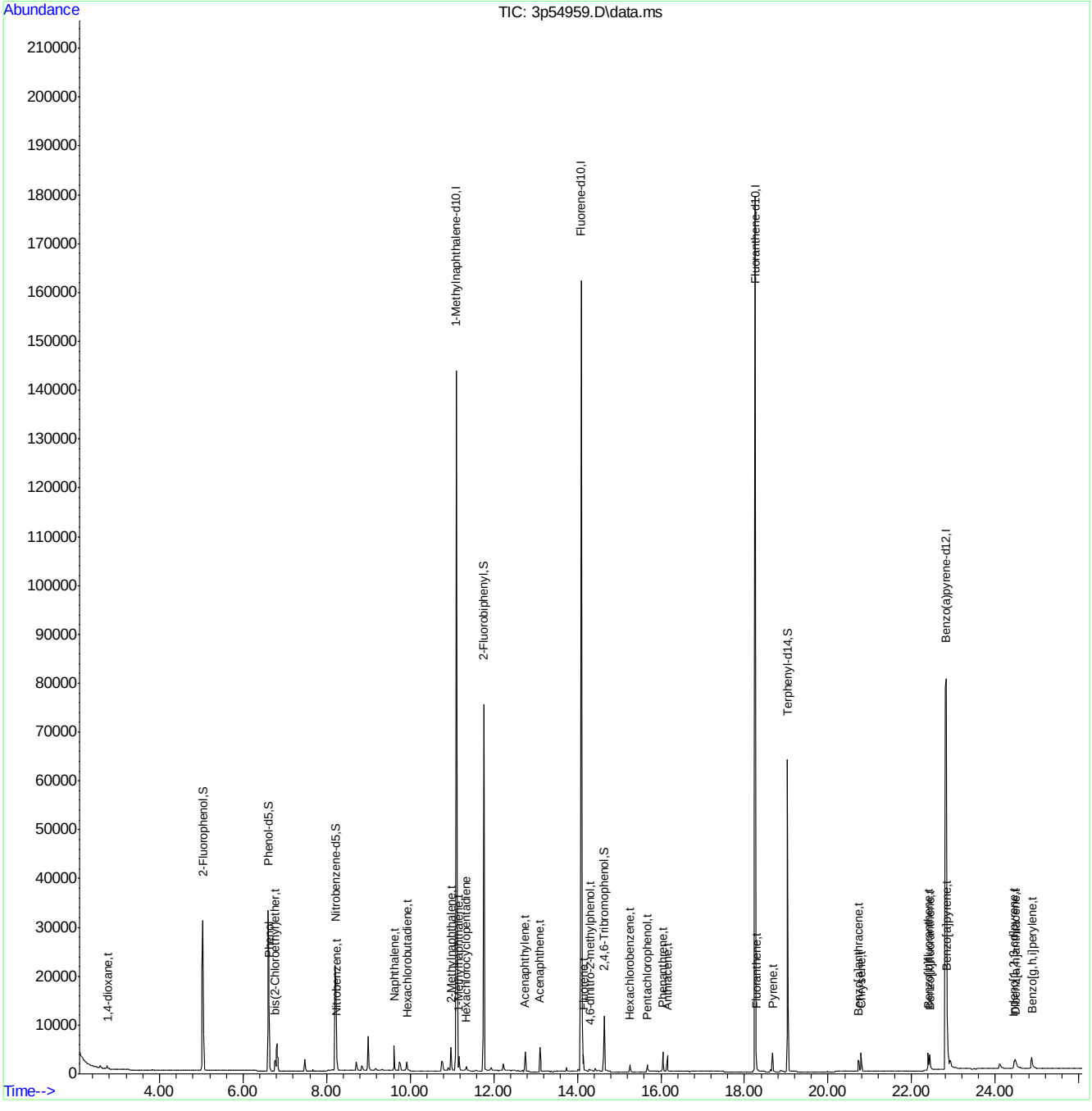
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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 JC24816

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

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

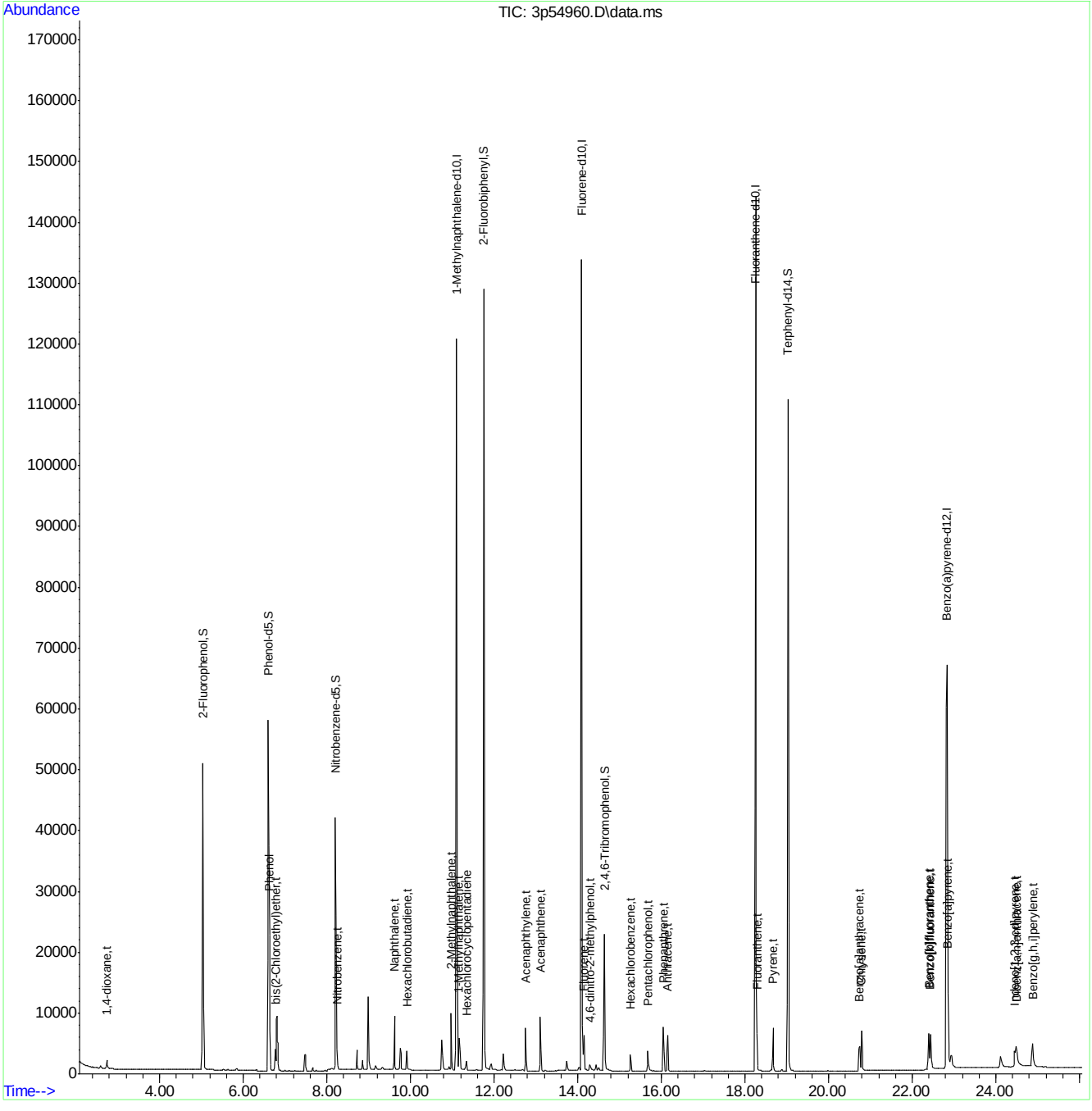
7.6.20

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



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

SGS ACCUTEST JC24816

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)

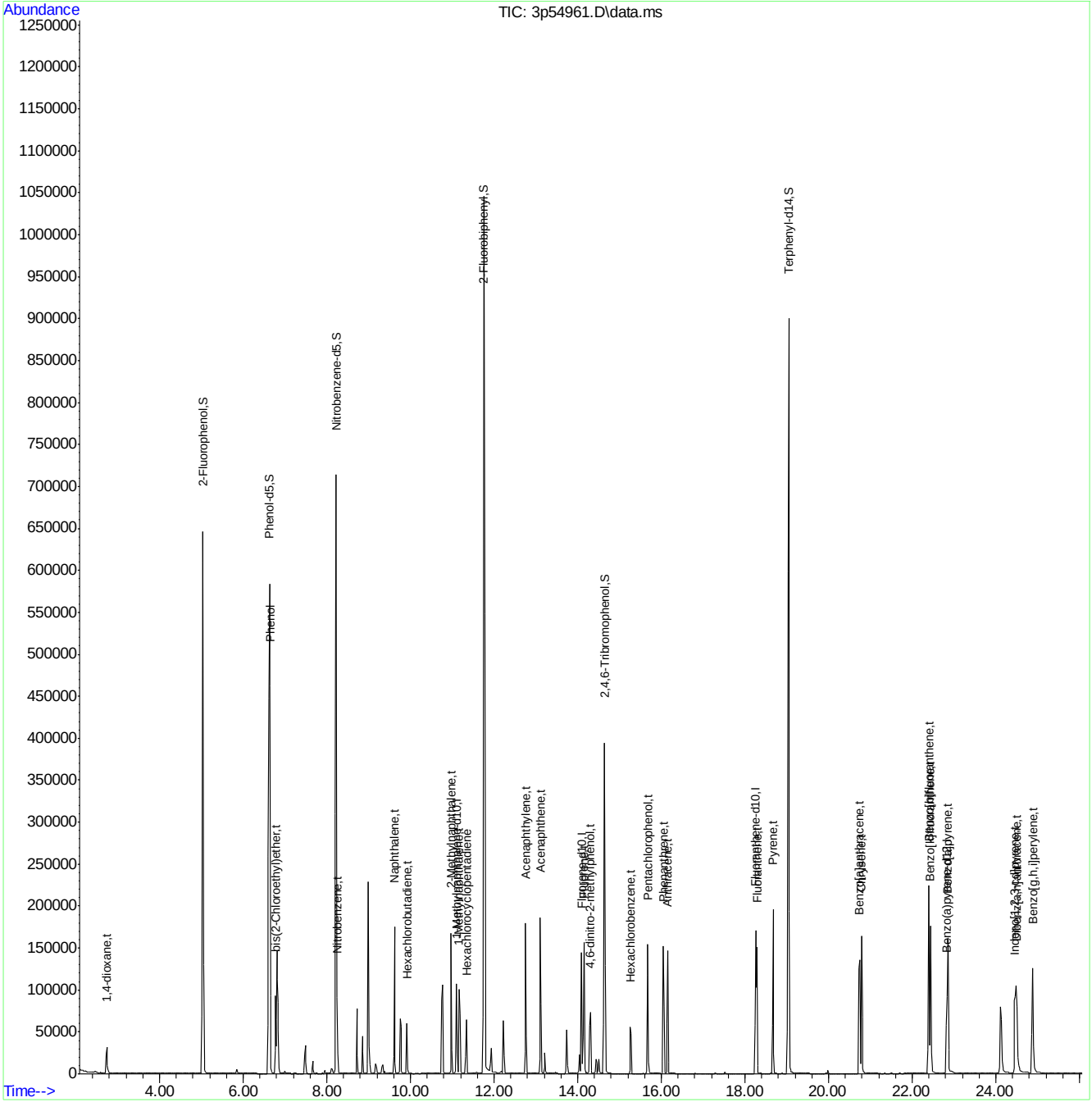
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

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

SGS ACCUTEST JC24816

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 JC24816

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

7.6.22

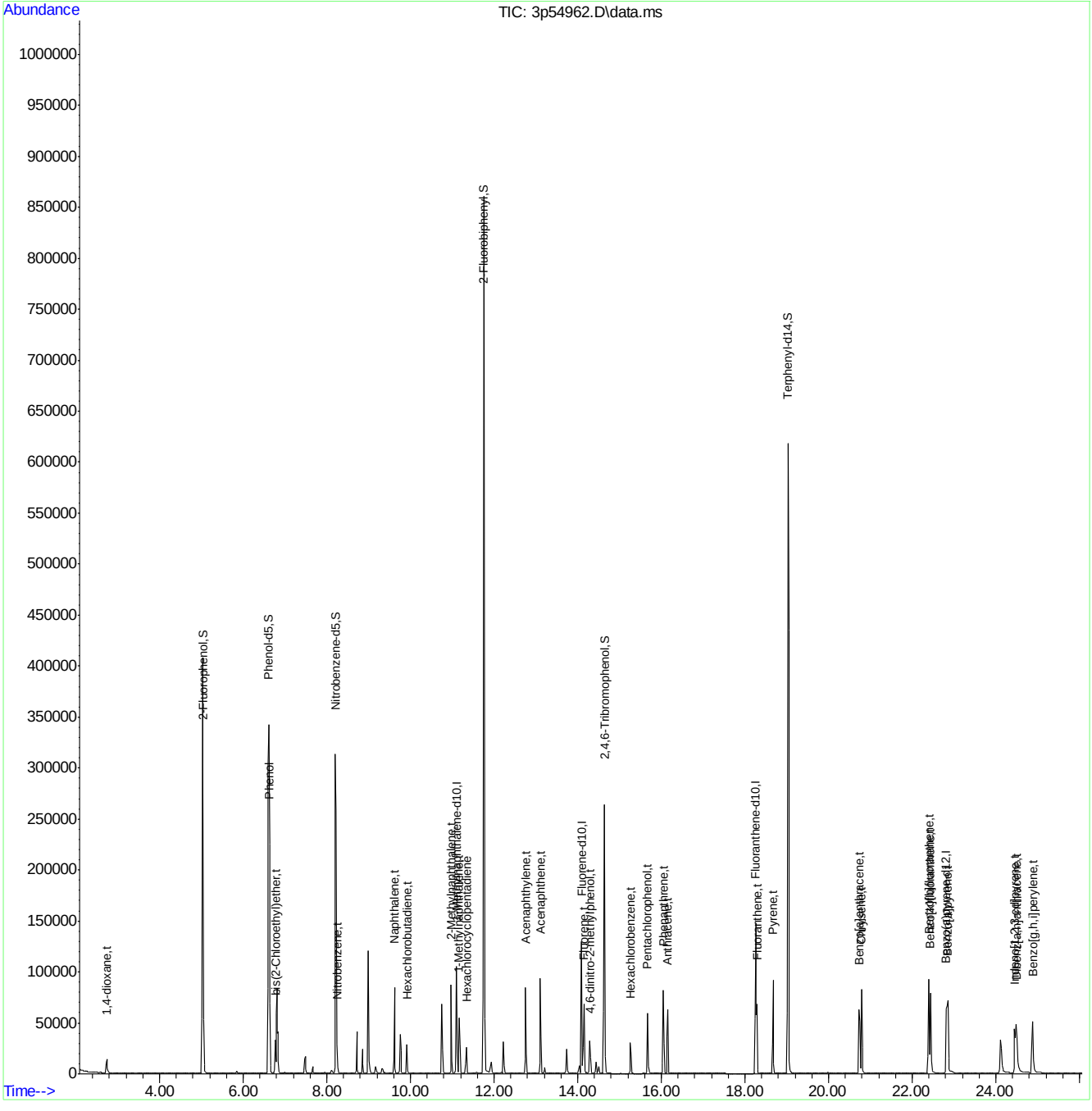
7

SGS ACCUTEST JC24816

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



SGS ACCUTEST JC24816

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

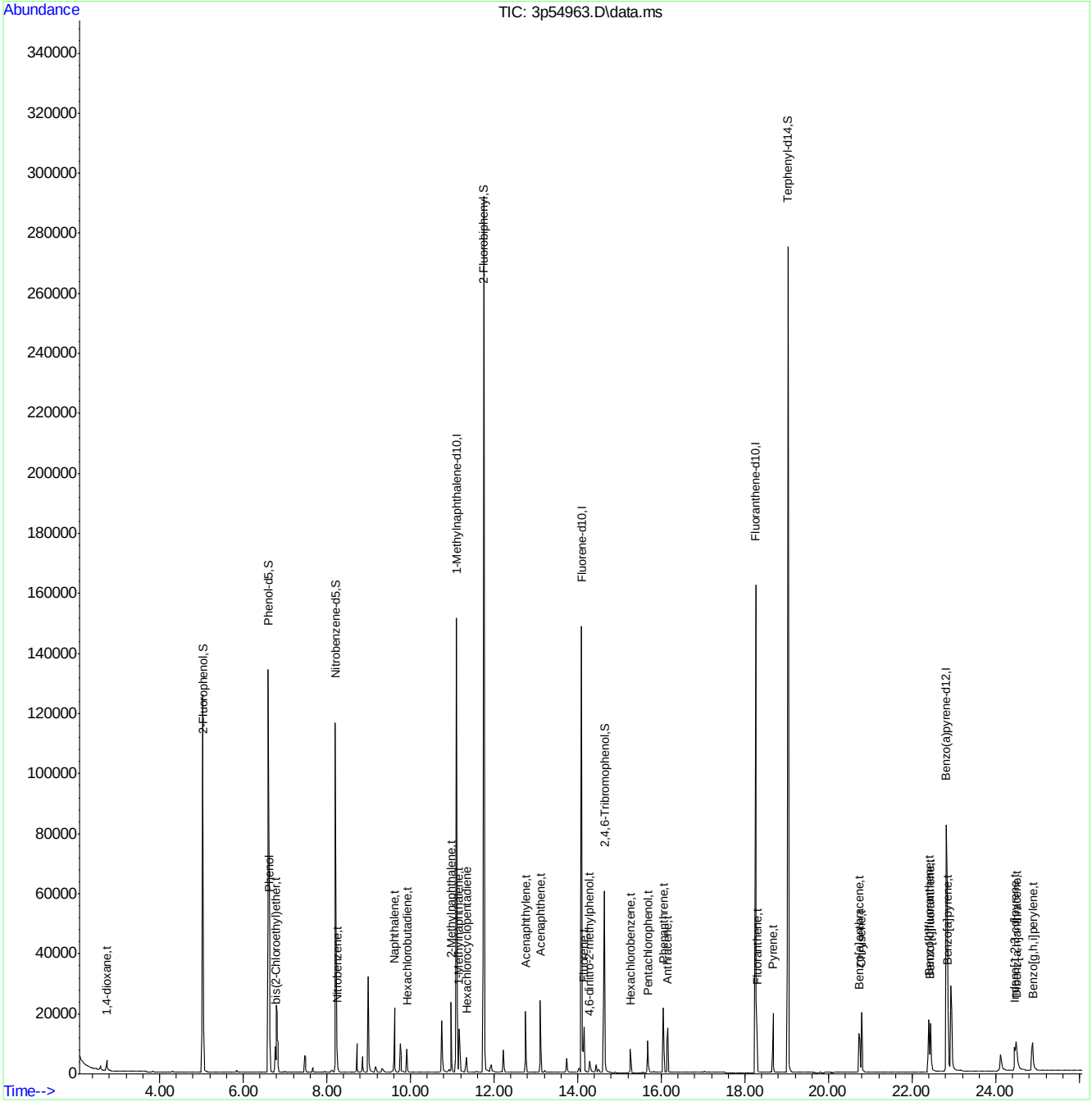
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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 JC24816

Manual Integration Approval Summary

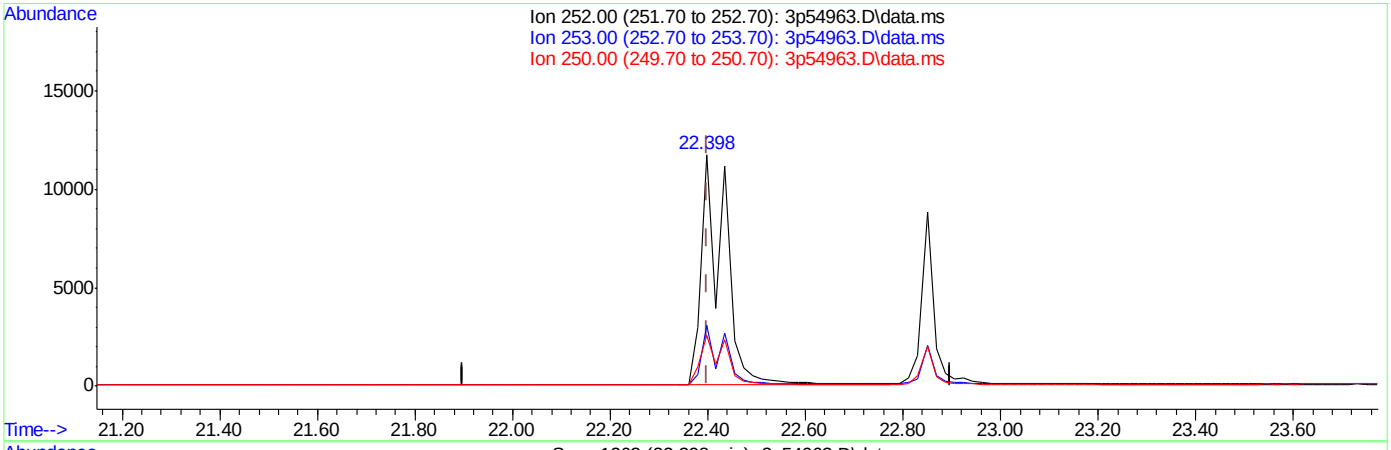
Sample Number:	E3P2503-IC2503	**Method:**	SW846 8270D BY SIM
Lab FileID:	3P54963.D	**Analyst approved:**	07/11/16 10:13 Ashley Dye
Injection Time:	07/06/16 15:04	**Supervisor approved:**	07/11/16 10:45 Nina Pandya

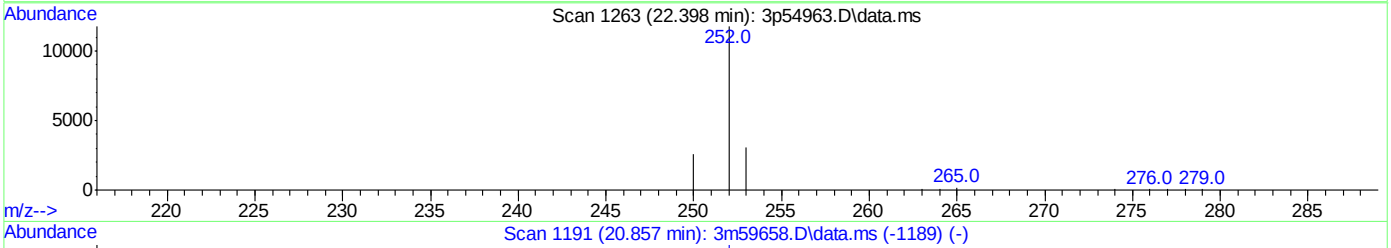
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		22.40	Overlapping peak
Benzo(k)fluoranthene	207-08-9		22.44	Overlapping peak

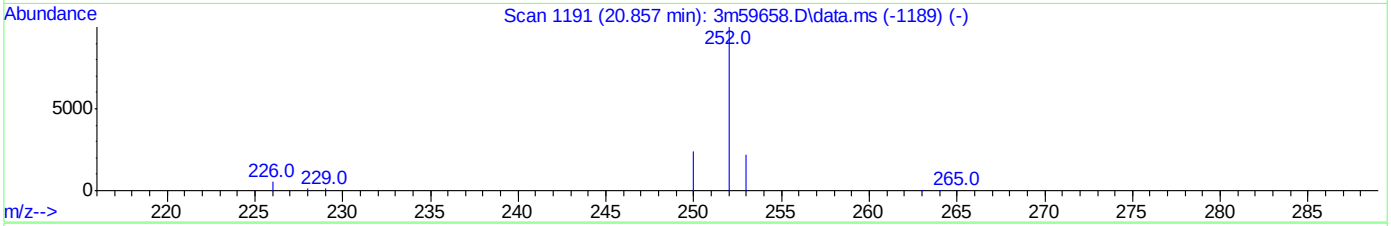
Quantitation Report (Qedit)

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

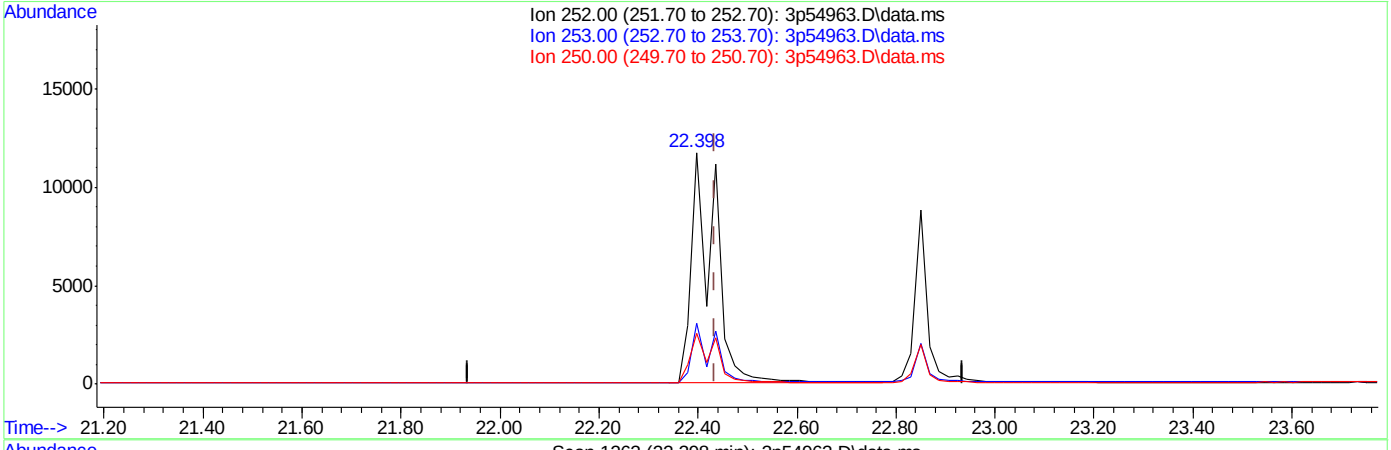
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.51
250.00	23.10	21.50
0.00	0.00	0.00

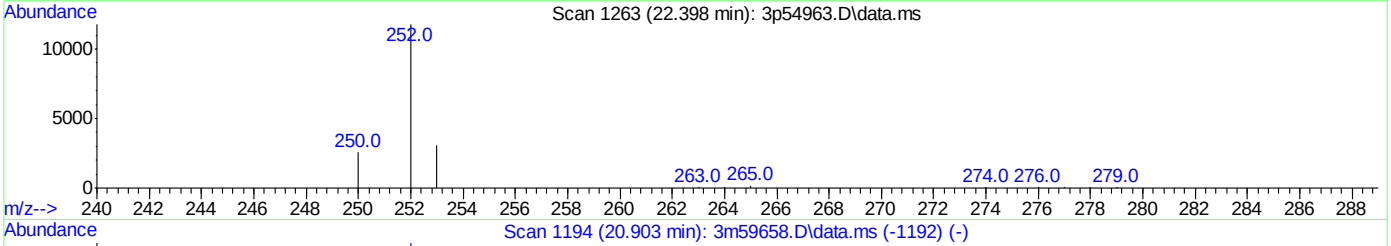
SGS ACCUTEST JC24816

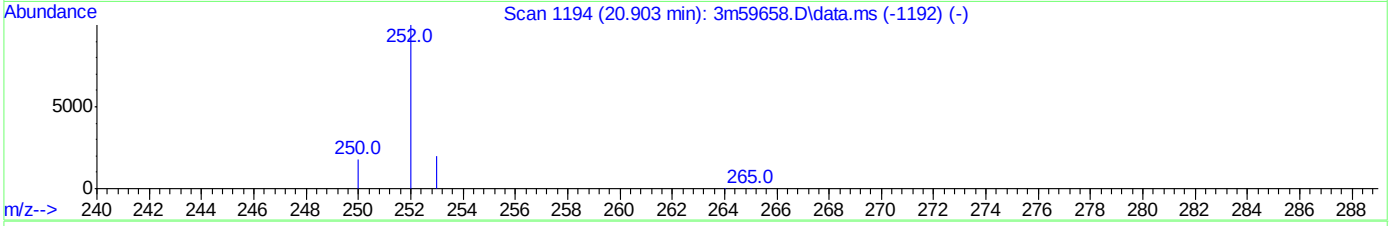
Quantitation Report (Qedit)

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

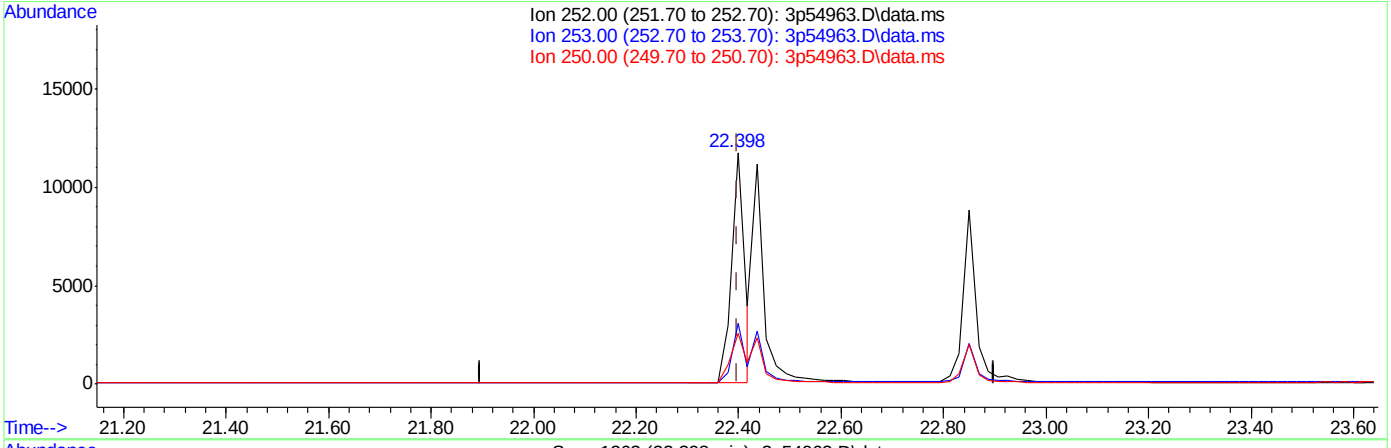
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	25.51
250.00	23.10	21.50
0.00	0.00	0.00

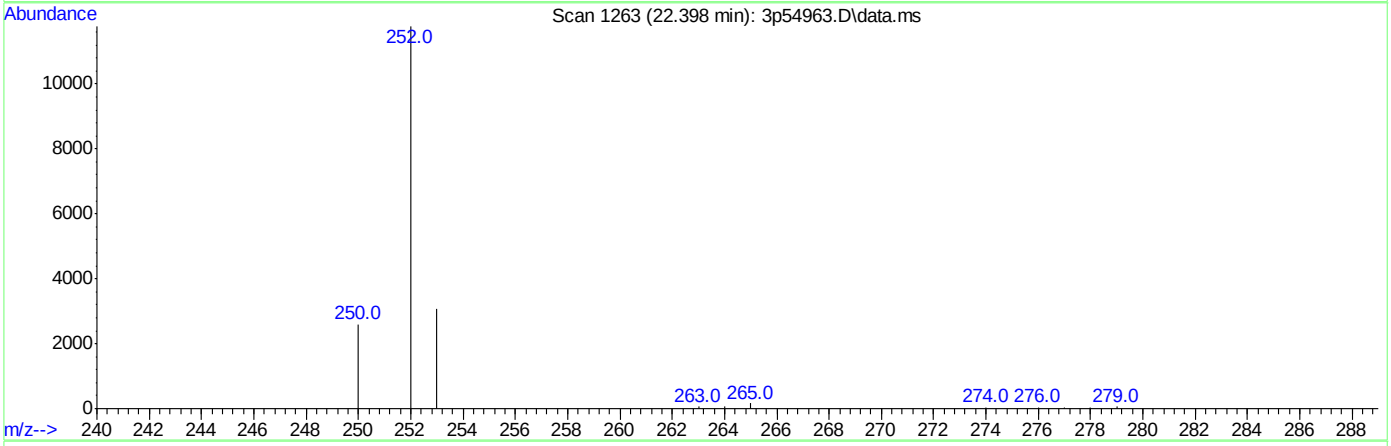
SGS ACCUTEST JC24816

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

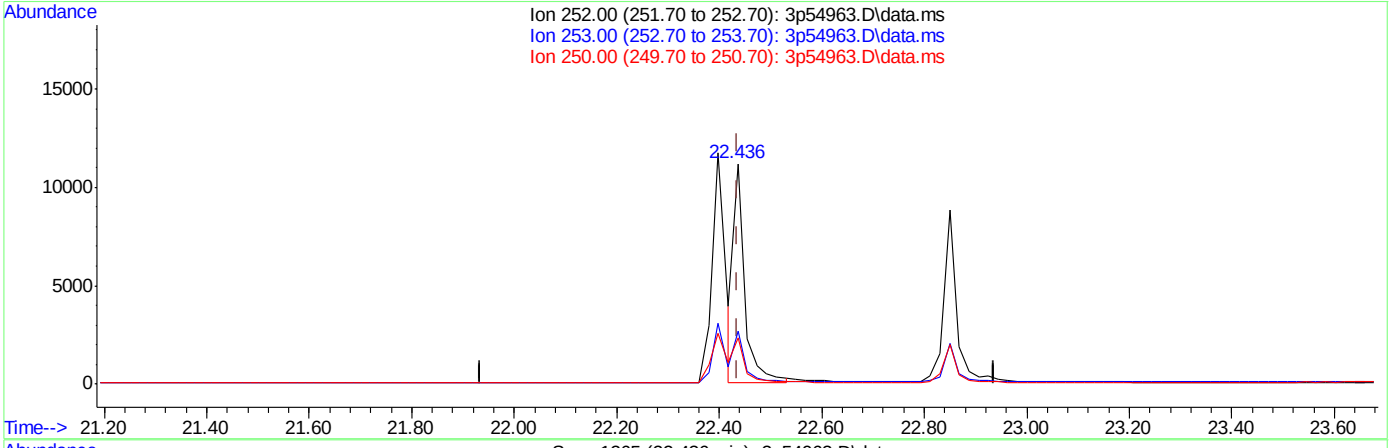
Ion	Exp%	Act%
252.00	100	100
253.00	23.60	26.15
250.00	23.10	22.06
0.00	0.00	0.00

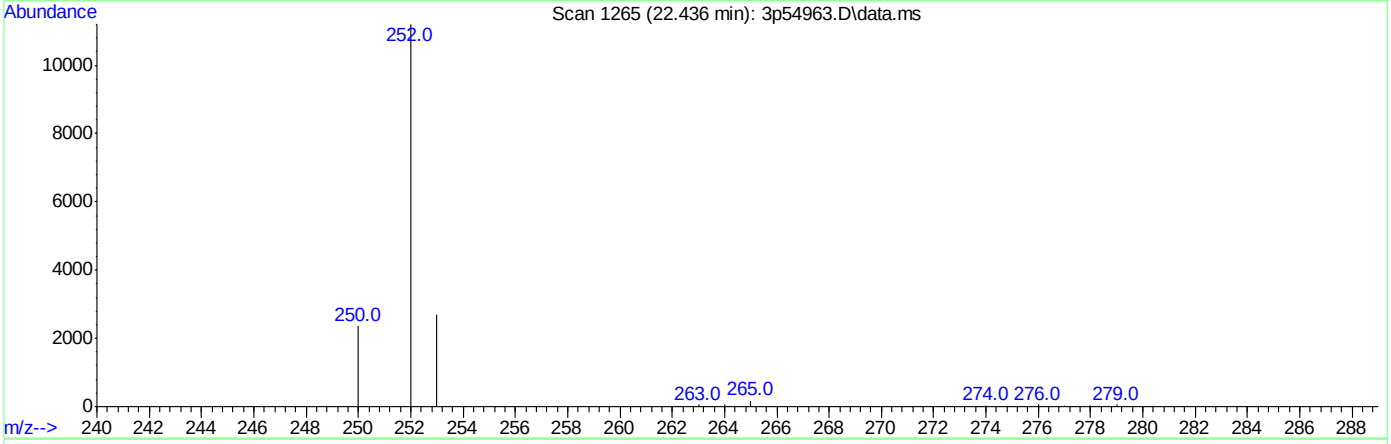
SGS ACCUTEST JC24816

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 JC24816

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

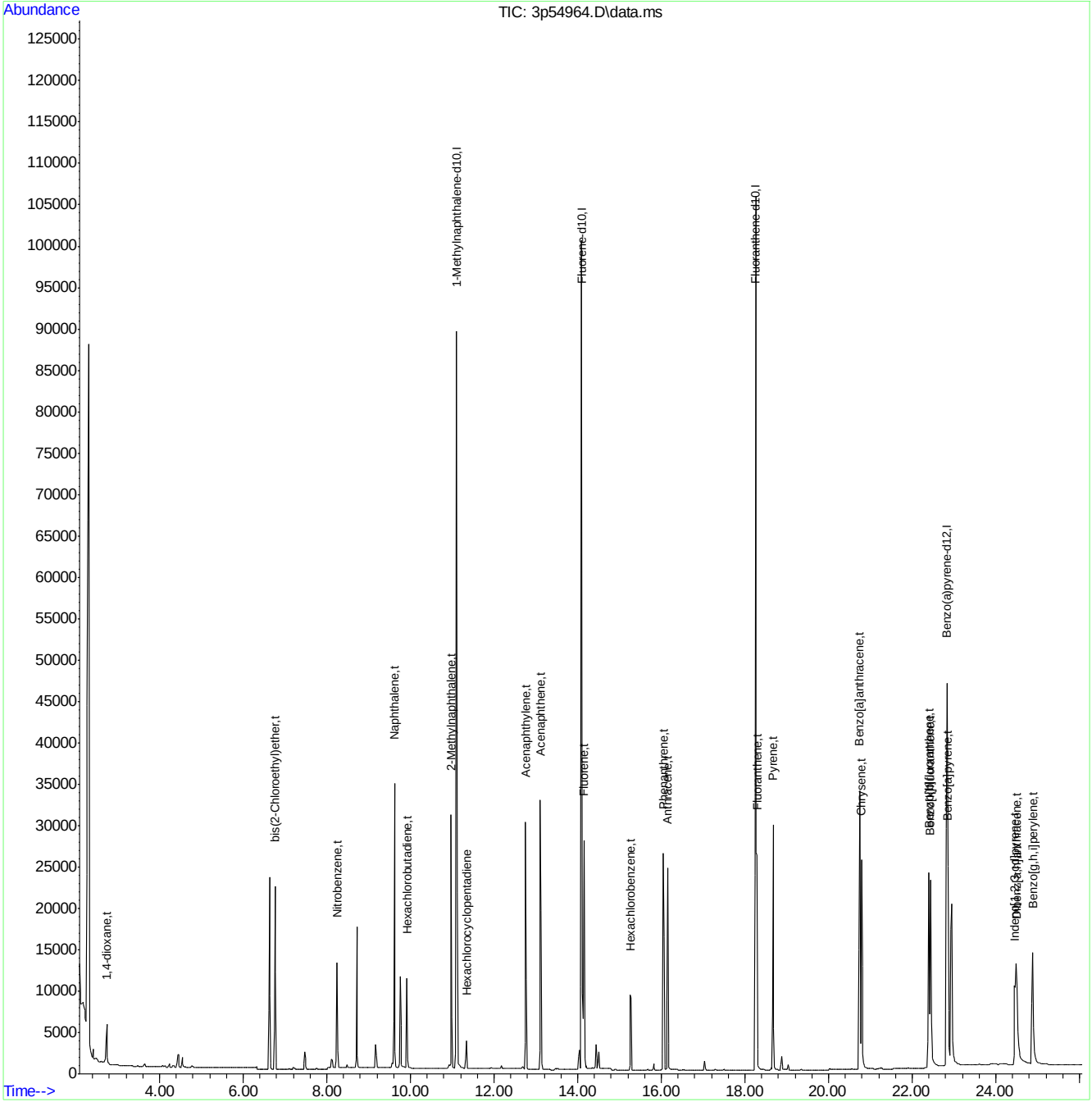
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	11.100	150	52064	4.00	ppm		0.00
14) Fluorene-d10	14.093	176	72894	4.00	ppm		0.00
21) Fluoranthene-d10	18.256	212	105662	4.00	ppm	#	0.00
31) Benzo(a)pyrene-d12	22.831	264	66096	4.00	ppm		0.00
System Monitoring 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

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 JC24816

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

7.6.25

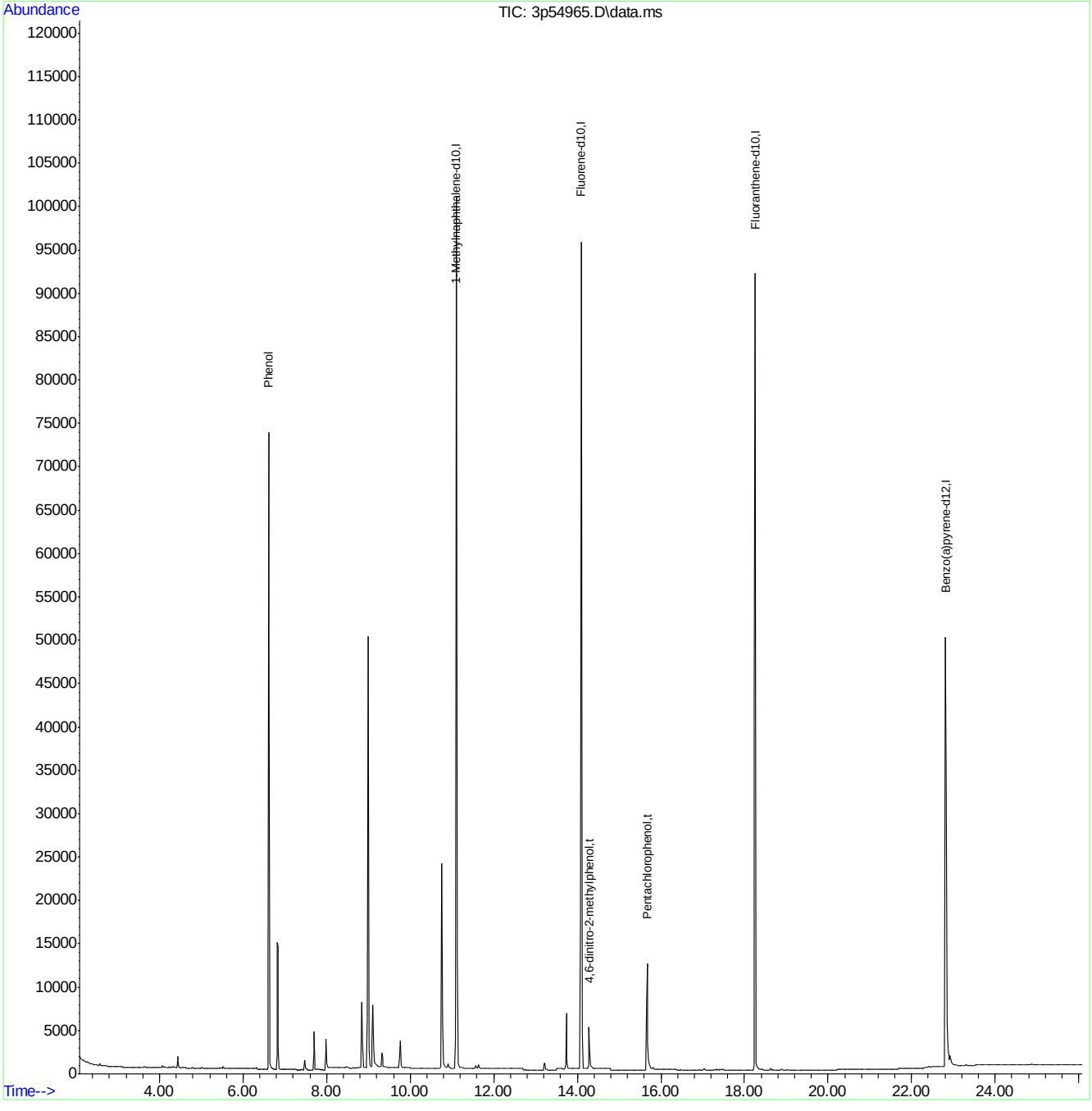
7

SGS ACCUTEST JC24816

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\E3P2531\
Data File : 3p55369.D
Acq On : 29 Jul 2016 10:19 pm
Operator : juliusj
Sample : cc2503-0.5
Misc : op95837a,e3p2531
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 22:45:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 26 16:24:11 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.839	150	84776	4.00	ppm	-0.02
14) Fluorene-d10	13.815	176	111239	4.00	ppm	-0.03
21) Fluoranthene-d10	17.983	212	173885	4.00	ppm	-0.04
31) Benzo(a)pyrene-d12	22.535	264	118484	4.00	ppm	-0.05
System Monitoring Compounds						
3) 2-Fluorophenol	4.838	112	120506	8.80	ppm	-0.09
Spiked Amount 50.000			Recovery = 17.60%			
4) Phenol-d5	6.401	99	170214	9.29	ppm	-0.06
Spiked Amount 50.000			Recovery = 18.58%			
7) Nitrobenzene-d5	7.970	82	152020	11.03	ppm	-0.05
Spiked Amount 50.000			Recovery = 22.06%			
15) 2-Fluorobiphenyl	11.508	172	241720	8.83	ppm	-0.05
Spiked Amount 50.000			Recovery = 17.66%			
20) 2,4,6-Tribromophenol	14.361	330	45202	12.98	ppm	-0.02
Spiked Amount 50.000			Recovery = 25.96%			
28) Terphenyl-d14	18.771	244	246561	10.77	ppm	-0.02
Spiked Amount 50.000			Recovery = 21.54%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.566	88	3660	0.43	ppm	79
5) Phenol	6.413	94	38412	2.56	ppm	91
6) bis(2-Chloroethyl)ether	6.546	93	6532	0.43	ppm	84
8) Nitrobenzene	8.008	77	7564	0.49	ppm	84
9) Naphthalene	9.364	128	24637	0.44	ppm	98
10) Hexachlorobutadiene	9.665	225	3723	0.39	ppm	76
11) 2-Methylnaphthalene	10.720	141	15063	0.50	ppm	99
12) 1-Methylnaphthalene	10.911	141	12451	0.53	ppm	77
13) Hexachlorocyclopentadiene	11.078	237	5871	1.11	ppm	86
16) Acenaphthylene	12.486	152	22720	0.58	ppm	94
17) Acenaphthene	12.849	153	13790	0.55	ppm	98
18) 4,6-dinitro-2-methylph...	14.022	198	6471	3.66	ppm #	15
19) Fluorene	13.871	166	13600	0.58	ppm	97
22) Hexachlorobenzene	14.984	284	5145	0.54	ppm	83
23) Pentachlorophenol	15.401	266	13167	3.14	ppm	90
24) Phenanthrene	15.772	178	22622	0.56	ppm	99
25) Anthracene	15.865	178	18033	0.52	ppm	99
26) Fluoranthene	18.014	202	19386	0.55	ppm	99
27) Pyrene	18.400	202	21635	0.55	ppm	97
29) Benzo[a]anthracene	20.470	228	19086	0.59	ppm	99
30) Chrysene	20.517	228	18274	0.49	ppm	96
32) Benzo[b]fluoranthene	22.124	252	25634	0.65	ppm	94
33) Benzo[k]fluoranthene	22.170	252	16124	0.49	ppm	98
34) Benzo[a]pyrene	22.572	252	16175	0.52	ppm	94
35) Indeno[1,2,3-cd]pyrene	24.096	276	20420	0.60	ppm	92
36) Dibenz[a,h]anthracene	24.134	278	17079	0.65	ppm	70
37) Benzo[g,h,i]perylene	24.491	276	18477	0.55	ppm	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2531\
Data File : 3p55369.D
Acq On : 29 Jul 2016 10:19 pm
Operator : juliusj
Sample : cc2503-0.5
Misc : op95837a,e3p2531
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 22:45:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 26 16:24:11 2016
Response via : Initial Calibration

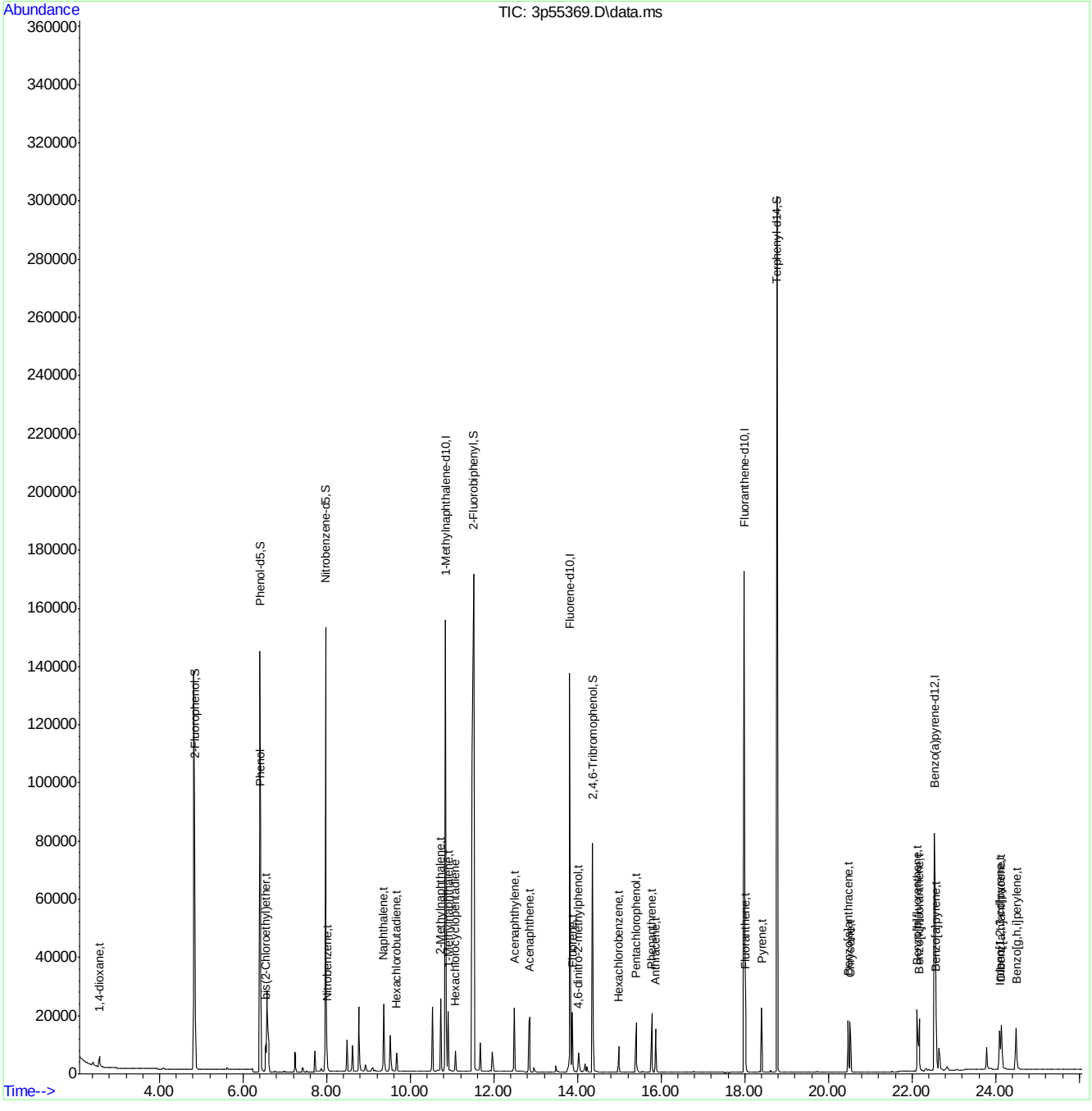
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2531\
Data File : 3p55369.D
Acq On : 29 Jul 2016 10:19 pm
Operator : juliusj
Sample : cc2503-0.5
Misc : op95837a,e3p2531
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 22:45:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jul 26 16:24:11 2016
Response via : Initial Calibration



M3P2503SIM.M Mon Aug 01 12:06:15 2016 Page: 3

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55401.D
Acq On : 2 Aug 2016 9:07 am
Operator : ashleyd
Sample : cc2503-1
Misc : op95837a,e3p2534
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:12:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.768	150	66646	4.00	ppm	0.00
14) Fluorene-d10	13.739	176	111093	4.00	ppm	0.00
21) Fluoranthene-d10	17.905	212	168107	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.478	264	123544	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.760	112	218707	20.32	ppm	-0.13
Spiked Amount 50.000			Recovery = 40.64%			
4) Phenol-d5	6.328	99	280337	19.46	ppm	-0.08
Spiked Amount 50.000			Recovery = 38.92%			
7) Nitrobenzene-d5	7.895	82	237820	21.95	ppm	-0.06
Spiked Amount 50.000			Recovery = 43.90%			
15) 2-Fluorobiphenyl	11.412	172	477247	17.46	ppm	-0.05
Spiked Amount 50.000			Recovery = 34.92%			
20) 2,4,6-Tribromophenol	14.286	330	74527	21.43	ppm	0.01
Spiked Amount 50.000			Recovery = 42.86%			
28) Terphenyl-d14	18.693	244	375460	16.96	ppm	0.03
Spiked Amount 50.000			Recovery = 33.92%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.489	88	8029	1.20	ppm	77
5) Phenol	6.352	94	62643	5.71	ppm #	66
6) bis(2-Chloroethyl)ether	6.461	93	11288	0.95	ppm	89
8) Nitrobenzene	7.914	77	11460	0.95	ppm #	58
9) Naphthalene	9.288	128	40700	0.93	ppm	92
10) Hexachlorobutadiene	9.589	225	6694	0.90	ppm	96
11) 2-Methylnaphthalene	10.648	141	19261	0.82	ppm #	69
12) 1-Methylnaphthalene	10.815	141	19187	1.04	ppm	95
13) Hexachlorocyclopentadiene	11.006	237	7360	1.66	ppm	92
16) Acenaphthylene	12.391	152	31156	0.80	ppm	96
17) Acenaphthene	12.756	153	26218	1.06	ppm	88
18) 4,6-dinitro-2-methylph...	13.947	198	13135	6.29	ppm #	47
19) Fluorene	13.796	166	22608	0.97	ppm	90
22) Hexachlorobenzene	14.906	284	8621	0.93	ppm	96
23) Pentachlorophenol	15.323	266	18713	4.48	ppm	98
24) Phenanthrene	15.679	178	39133	1.00	ppm	100
25) Anthracene	15.787	178	31815	0.95	ppm	99
26) Fluoranthene	17.936	202	34543	1.02	ppm	99
27) Pyrene	18.322	202	38835	1.03	ppm	98
29) Benzo[a]anthracene	20.393	228	35173	1.12	ppm	100
30) Chrysene	20.455	228	33910	0.94	ppm	99
32) Benzo[b]fluoranthene	22.062	252	40114	0.98	ppm	99
33) Benzo[k]fluoranthene	22.092	252	32241	0.94	ppm	98
34) Benzo[a]pyrene	22.497	252	26874	0.83	ppm	95
35) Indeno[1,2,3-cd]pyrene	24.020	276	37095	1.04	ppm	93
36) Dibenz[a,h]anthracene	24.058	278	28874	1.05	ppm	54
37) Benzo[g,h,i]perylene	24.397	276	32401	0.92	ppm	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55401.D
Acq On : 2 Aug 2016 9:07 am
Operator : ashleyd
Sample : cc2503-1
Misc : op95837a,e3p2534
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:12:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration

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

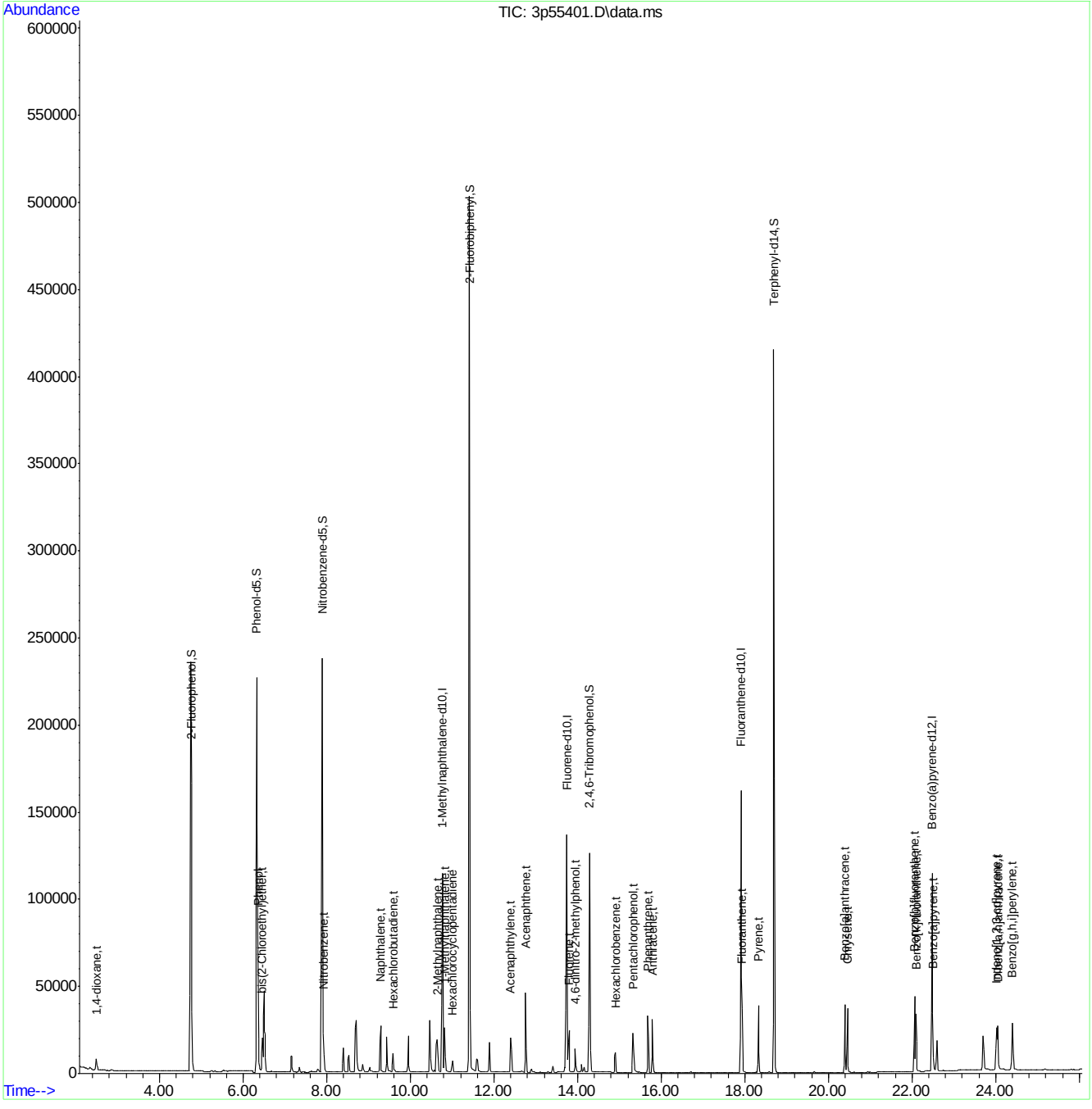
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2534\
Data File : 3p55401.D
Acq On : 2 Aug 2016 9:07 am
Operator : ashleyd
Sample : cc2503-1
Misc : op95837a,e3p2534
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 12:12:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3P2503SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Aug 02 12:12:06 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55586.D
Acq On : 9 Aug 2016 2:35 pm
Operator : ashleyd
Sample : cc2503-0.5
Misc : op95964a,e3p2546
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 15:22:01 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	10.839	150	93673	4.00	ppm		0.14
14) Fluorene-d10	13.815	176	145013	4.00	ppm		0.15
21) Fluoranthene-d10	17.967	212	237955	4.00	ppm		0.09
31) Benzo(a)pyrene-d12	22.535	264	202189	4.00	ppm		0.08
System Monitoring Compounds							
3) 2-Fluorophenol	4.838	112	146520	9.69	ppm		-0.02
Spiked Amount 50.000			Recovery	=	19.38%		
4) Phenol-d5	6.401	99	200679	9.91	ppm		0.04
Spiked Amount 50.000			Recovery	=	19.82%		
7) Nitrobenzene-d5	7.970	82	172805	11.35	ppm		0.06
Spiked Amount 50.000			Recovery	=	22.70%		
15) 2-Fluorobiphenyl	11.484	172	406070	11.38	ppm		0.08
Spiked Amount 50.000			Recovery	=	22.76%		
20) 2,4,6-Tribromophenol	14.361	330	58422	12.87	ppm		0.17
Spiked Amount 50.000			Recovery	=	25.74%		
28) Terphenyl-d14	18.755	244	340233	10.86	ppm		0.12
Spiked Amount 50.000			Recovery	=	21.72%		
Target Compounds							Qvalue
2) 1,4-dioxane	2.551	88	5012	0.53	ppm	#	50
5) Phenol	6.425	94	45961	2.79	ppm	#	80
6) bis(2-Chloroethyl)ether	6.534	93	8012	0.48	ppm		73
8) Nitrobenzene	7.989	77	8311	0.49	ppm		95
9) Naphthalene	9.345	128	30483	0.50	ppm		99
10) Hexachlorobutadiene	9.646	225	4630	0.44	ppm		72
11) 2-Methylnaphthalene	10.696	141	15711	0.47	ppm		78
12) 1-Methylnaphthalene	10.887	141	14520	0.56	ppm		98
13) Hexachlorocyclopentadiene	11.078	237	5019	0.90	ppm		89
16) Acenaphthylene	12.462	152	26851	0.52	ppm		80
17) Acenaphthene	12.833	153	18774	0.58	ppm		96
18) 4,6-dinitro-2-methylph...	14.022	198	9288	3.94	ppm		82
19) Fluorene	13.853	166	17199	0.56	ppm	#	65
22) Hexachlorobenzene	14.968	284	7144	0.54	ppm		83
23) Pentachlorophenol	15.401	266	14786	2.62	ppm		90
24) Phenanthrene	15.757	178	31645	0.57	ppm		95
25) Anthracene	15.849	178	26993	0.57	ppm		95
26) Fluoranthene	17.998	202	26983	0.56	ppm		99
27) Pyrene	18.384	202	32154	0.60	ppm		98
29) Benzo[a]anthracene	20.455	228	32604	0.73	ppm		96
30) Chrysene	20.517	228	29914	0.59	ppm		97
32) Benzo[b]fluoranthene	22.124	252	39237	0.59	ppm		89
33) Benzo[k]fluoranthene	22.154	252	26270	0.47	ppm		88
34) Benzo[a]pyrene	22.553	252	23566	0.45	ppm		94
35) Indeno[1,2,3-cd]pyrene	24.096	276	46609	0.80	ppm		93
36) Dibenz[a,h]anthracene	24.115	278	35476	0.79	ppm		54
37) Benzo[g,h,i]perylene	24.472	276	40879	0.71	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55586.D
Acq On : 9 Aug 2016 2:35 pm
Operator : ashleyd
Sample : cc2503-0.5
Misc : op95964a,e3p2546
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 15:22:01 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)

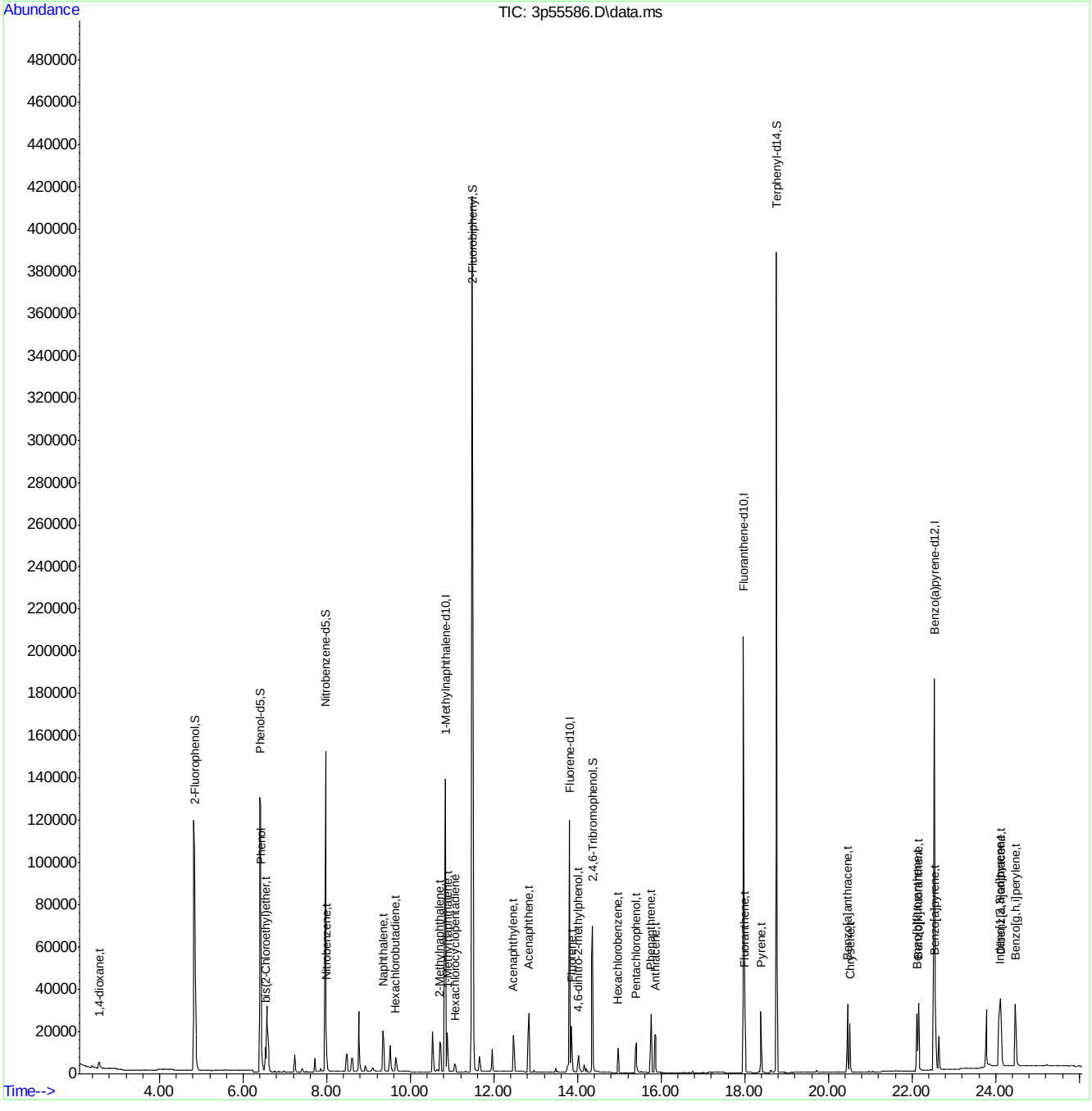
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55586.D
Acq On : 9 Aug 2016 2:35 pm
Operator : ashleyd
Sample : cc2503-0.5
Misc : op95964a,e3p2546
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 09 15:22:01 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

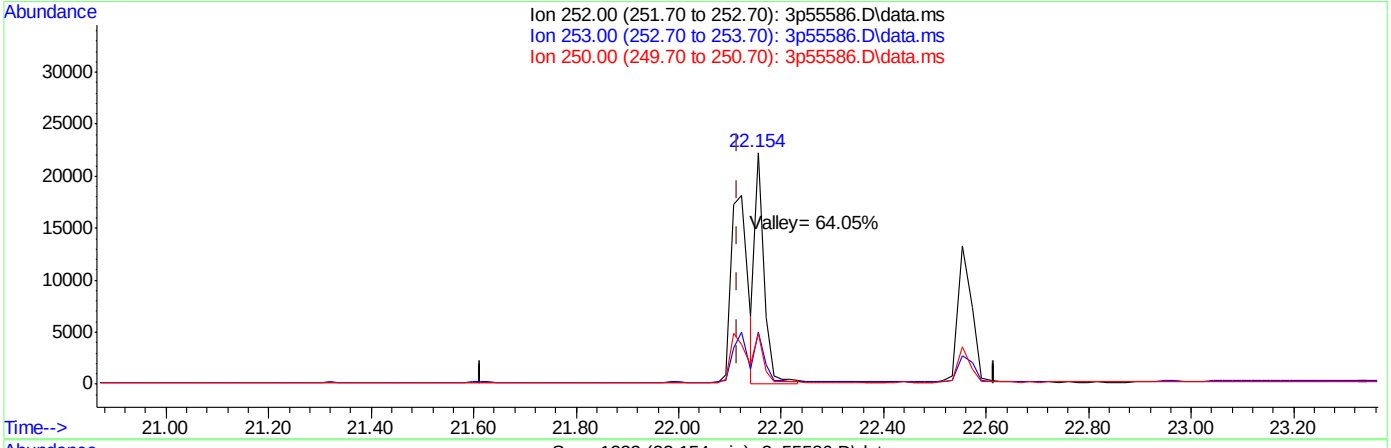


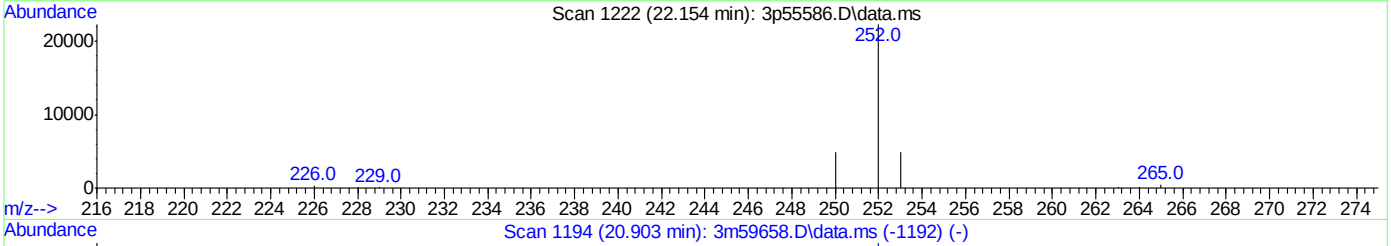
SGS ACCUTEST JC24816

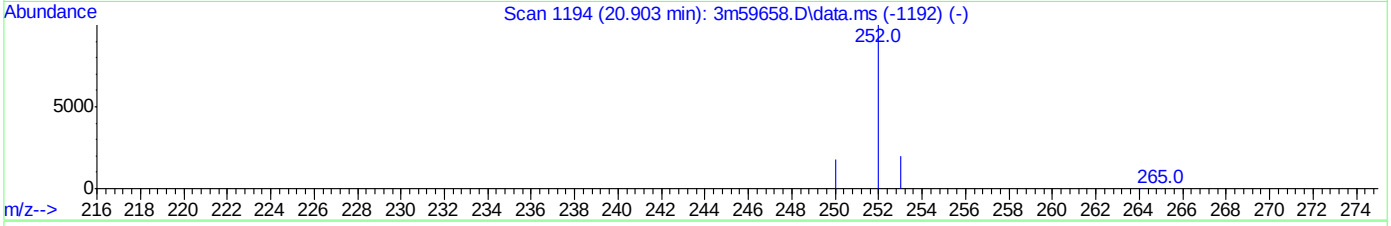
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\E3P2546\
Data File : 3p55586.D
Acq On    :  9 Aug 2016   2:35 pm
Operator  : ashleyd
Sample    : cc2503-0.5
Misc      : op95964a,e3p2546
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Aug 09 15:22:01 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
```







TIC: 3p55586.D\data.ms

(33) Benzo[k]fluoranthene (t)

22.154min (+0.040) 0.47ppm

response 26270

Ion	Exp%	Act%
252.00	100	100
253.00	29.30	21.65
250.00	24.70	20.38
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105969.D Vial: 3
Acq On : 11 Jul 2016 9:31 am Operator: brittanp
Sample : icc4681-50 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:05:53 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:05:48 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	174021	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	570275	40.00	ppm	0.00
47) Acenaphthene-d10	6.91	164	329946	40.00	ppm	0.00
69) Phenanthrene-d10	8.74	188	601494	40.00	ppm	0.00
83) Chrysene-d12	13.96	240	599774	40.00	ppm	0.00
91) Perylene-d12	16.99	264	425762	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	174021	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	570275	40.00	ppm	0.00
120) Acenaphthene-d10A	6.91	164	329946	40.00	ppm	0.00
131) Phenanthrene-d10A	8.74	188	601494	40.00	ppm	0.00
146) Chrysene-d12A	13.96	240	599774	40.00	ppm	0.00
154) Perylene-d12A	16.99	264	425762	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	174021	40.00	ppm	0.00
160) Phenanthrene-d10b	8.74	188	601494	40.00	ppm	0.00
162) Chrysene-d12b	13.96	240	599774	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	570275	40.00	ppm	0.00
166) Acenaphthene-d10b	6.91	164	329946	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	570275	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	174021	40.00	ppm	-0.01
175) Chrysene-d12c	13.96	240	599701	40.00	ppm	0.00
177) Chrysene-d12d	13.96	240	599701	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	570275	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.62	112	296647	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
8) Phenol-d5	4.34	99	411405	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
25) Nitrobenzene-d5	5.00	82	349171	50.12	ppm	0.00
Spiked Amount 50.000			Recovery = 100.24%			
51) 2-Fluorobiphenyl	6.31	172	508765	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
73) 2,4,6-Tribromophenol	7.77	330	69407	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			
85) Terphenyl-d14	11.76	244	584136	50.00	ppm	0.00
Spiked Amount 50.000			Recovery = 100.00%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.14	88	144418	50.00	ppm	100
3) Pyridine	2.46	79	363420	50.00	ppm	100
4) N-Nitrosodimethylamine	2.43	42	149588	50.00	ppm	100
6) Indene	4.78	116	473909	50.00	ppm	100
7) Cumene	4.00	105	704374	50.00	ppm	100
9) Phenol	4.35	94	438837	49.91	ppm	100
10) Aniline	4.36	93	482981	50.25	ppm	99
11) bis(2-Chloroethyl)ether	4.41	93	296240	50.00	ppm	100
12) 2-Chlorophenol	4.45	128	284442	50.00	ppm	100
13) Decane	4.48	43	273901	50.00	ppm	100
14) 1,3-Dichlorobenzene	4.56	146	287458	50.00	ppm	100
15) 1,4-Dichlorobenzene	4.61	146	282251	50.00	ppm	100

(#) = qualifier out of range (m) = manual integration
P105969.D MP4681.M Mon Jul 11 14:08:36 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105969.D Vial: 3
Acq On : 11 Jul 2016 9:31 am Operator: brittanp
Sample : icc4681-50 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:05:53 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:05:48 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
16) Benzyl alcohol	4.70	108	205708	50.00	ppm	100
17) 1,2-Dichlorobenzene	4.72	146	256744	50.00	ppm	100
18) Acetophenone	4.90	105	374224	50.00	ppm	100
19) 2-Methylphenol	4.79	108	253909	50.00	ppm	100
20) 2,2'-oxybis(1-Chloropropan	4.80	121	88126	50.00	ppm	100
21) 3&4-Methylphenol	4.90	108	263459	50.00	ppm	100
22) n-Nitroso-di-n-propylamine	4.89	70	197785	50.00	ppm	100
23) Hexachloroethane	4.97	201	115218	50.00	ppm	100
26) Nitrobenzene	5.02	77	343106	50.00	ppm	100
27) Quinoline	5.78	129	542476	50.00	ppm	100
28) Isophorone	5.19	82	586968	50.00	ppm	100
29) 2-Nitrophenol	5.24	139	154423	50.00	ppm	100
30) 2,4-Dimethylphenol	5.28	107	291018	50.00	ppm	100
31) Benzoic acid	5.37	105	253993	50.00	ppm	100
32) bis(2-Chloroethoxy)methane	5.35	93	334827	50.00	ppm	100
33) 2,4-Dichlorophenol	5.42	162	229279	50.00	ppm	100
34) 2,6-Dichlorophenol	5.58	162	222577	50.00	ppm	100
35) 1,3,5-Trichlorobenzene	5.25	180	256838	50.00	ppm	100
36) 1,2,4-Trichlorobenzene	5.48	180	242595	50.00	ppm	100
37) 1,2,3-Trichlorobenzene	5.63	180	238203	50.00	ppm	100
38) Naphthalene	5.53	128	681897	50.00	ppm	100
39) 4-Chloroaniline	5.58	127	340138	50.00	ppm	100
40) 2,3-Dichloroaniline	6.24	161	270776	50.00	ppm	100
41) Caprolactam	5.84	55	180473	50.00	ppm	100
42) Hexachlorobutadiene	5.62	225	160145	50.00	ppm	100
43) 4-Chloro-3-methylphenol	5.92	107	265595	50.00	ppm	100
44) 2-Methylnaphthalene	6.03	141	428008	50.00	ppm	100
45) 1-Methylnaphthalene	6.10	142	486708	50.00	ppm	100
46) Dimethylnaphthalene	6.52	156	442291	50.00	ppm	100
48) Hexachlorocyclopentadiene	6.14	237	367057	100.00	ppm	100
49) 2,4,6-Trichlorophenol	6.24	196	181170	50.00	ppm	100
50) 2,4,5-Trichlorophenol	6.28	196	186702	50.40	ppm	100
52) 2-Chloronaphthalene	6.41	162	428787	50.00	ppm	100
53) Biphenyl	6.39	154	602924	50.00	ppm	100
54) 2-Nitroaniline	6.50	65	221690	49.95	ppm	100
55) Dimethylphthalate	6.65	163	494364	50.05	ppm	100
56) Acenaphthylene	6.77	152	739770	50.00	ppm	100
57) 2,6-Dinitrotoluene	6.71	165	116429	50.00	ppm	100
58) 3-Nitroaniline	6.87	138	156908	50.00	ppm	100
59) Acenaphthene	6.94	153	443759	50.00	ppm	100
61) 4-Nitrophenol	7.03	109	113525	50.00	ppm	100
62) Dibenzofuran	7.11	168	692344	50.00	ppm	100
63) 2,4-Dinitrotoluene	7.10	165	169263	50.00	ppm	100
64) 2,3,4,6-Tetrachlorophenol	7.24	232	164485	50.00	ppm	100
65) Diethylphthalate	7.36	149	587981	50.00	ppm	100
66) Fluorene	7.48	166	558148	50.00	ppm	100
67) 4-Chlorophenyl-phenylether	7.48	204	282432	50.00	ppm	100
68) 4-Nitroaniline	7.52	138	159205	50.00	ppm	100
71) n-Nitrosodiphenylamine	7.63	169	385062	50.00	ppm	100

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

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105969.D Vial: 3
Acq On : 11 Jul 2016 9:31 am Operator: brittanp
Sample : icc4681-50 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:05:53 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:05:48 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	1,2-Diphenylhydrazine	7.68	77	666665	50.03	ppm	100
74)	4-Bromophenyl-phenylether	8.10	248	171405	50.00	ppm	100
75)	Hexachlorobenzene	8.17	284	166632	50.00	ppm	100
76)	Pentachlorophenol	8.46	266	223511	100.00	ppm	100
77)	Phenanthrene	8.78	178	711659	50.00	ppm	100
78)	Anthracene	8.86	178	726576	50.00	ppm	100
79)	Carbazole	9.13	167	776392	50.00	ppm	100
80)	Di-n-butylphthalate	9.82	149	1004233	50.00	ppm	100
81)	Fluoranthene	10.89	202	990812	50.00	ppm	100
82)	Octadecane	8.64	57	467589	50.00	ppm	100
84)	Pyrene	11.32	202	980646	50.00	ppm	100
86)	Butylbenzylphthalate	12.93	149	469603	50.00	ppm	100
87)	Benzo[a]anthracene	13.94	228	853772	50.00	ppm	100
88)	3,3'-Dichlorobenzidine	13.99	252	302064	50.00	ppm	100
89)	Chrysene	14.02	228	757937	50.00	ppm	100
90)	bis(2-Ethylhexyl)phthalate	14.34	149	550961	50.00	ppm	100
92)	Di-n-octylphthalate	15.78	149	952711	50.00	ppm	100
93)	Benzo[b]fluoranthene	16.24	252	797304	50.00	ppm	100
94)	Benzo[k]fluoranthene	16.30	252	646307	50.00	ppm	100
95)	Benzo[a]pyrene	16.87	252	674461	50.00	ppm	100
96)	Indeno[1,2,3-cd]pyrene	18.93	276	503589	50.00	ppm	100
97)	Dibenz(a,h)acridine	18.57	279	508694	50.00	ppm	100
98)	Dibenz[a,h]anthracene	18.99	278	459393	50.02	ppm	100
99)	7,12-Dimethylbenz(a)anthra	16.26	256	349267	50.00	ppm	100
100)	Benzo[g,h,i]perylene	19.35	276	507956	50.00	ppm	100

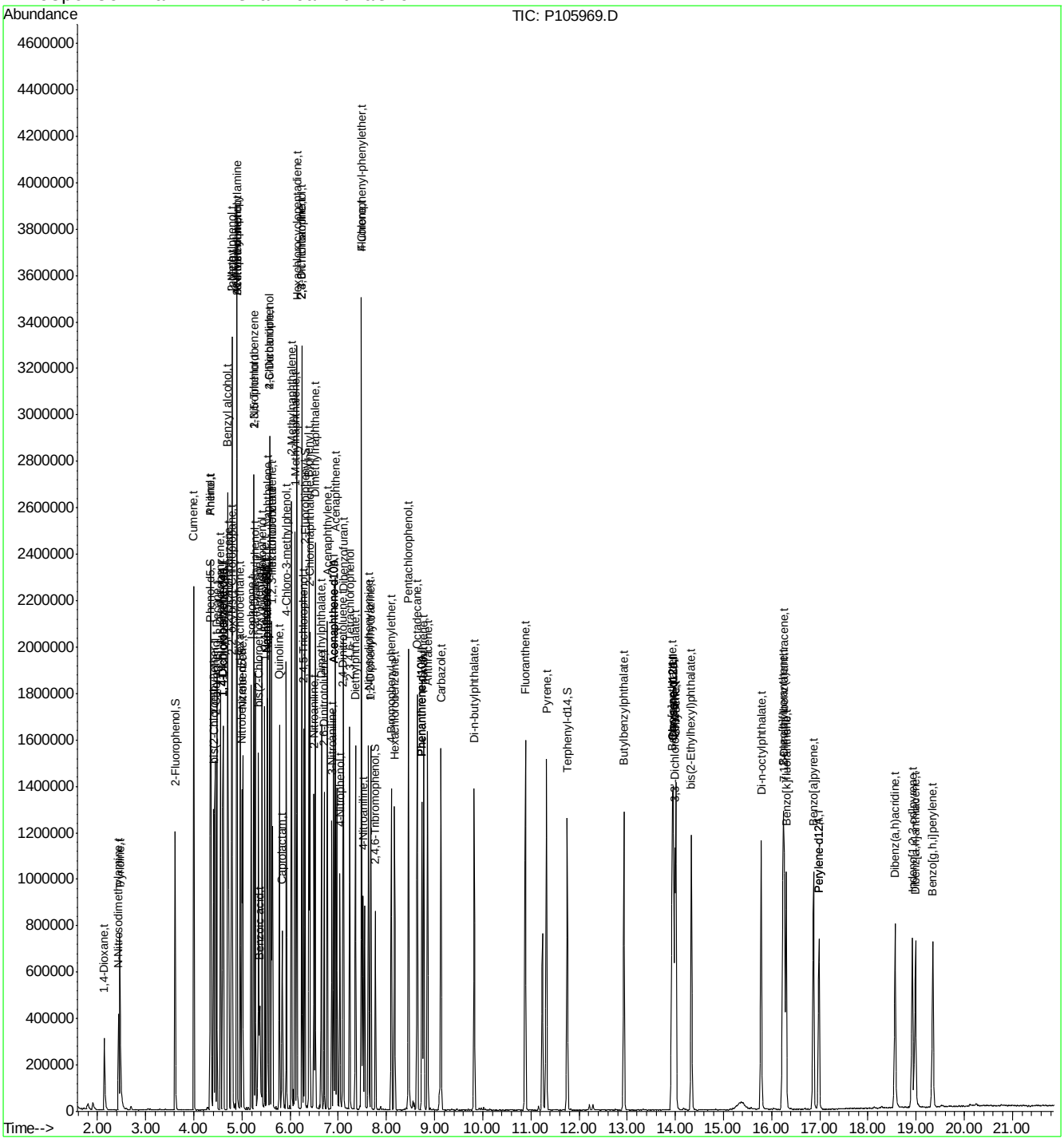
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105969.D Vial: 3
Acq On : 11 Jul 2016 9:31 am Operator: brittanp
Sample : icc4681-50 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:08 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:05:48 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105970.D Vial: 4
Acq On : 11 Jul 2016 10:00 am Operator: brittanp
Sample : ic4681-100 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:08:54 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:08:46 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	154937	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	510066	40.00	ppm	0.00
47) Acenaphthene-d10	6.91	164	296539	40.00	ppm	0.00
69) Phenanthrene-d10	8.74	188	540720	40.00	ppm	0.00
83) Chrysene-d12	13.96	240	564304	40.00	ppm	0.00
91) Perylene-d12	16.99	264	392818	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	154937	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	510066	40.00	ppm	0.00
120) Acenaphthene-d10A	6.91	164	296539	40.00	ppm	0.00
131) Phenanthrene-d10A	8.74	188	540720	40.00	ppm	0.00
146) Chrysene-d12A	13.96	240	564304	40.00	ppm	0.00
154) Perylene-d12A	16.99	264	392818	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	154937	40.00	ppm	0.00
160) Phenanthrene-d10b	8.74	188	540720	40.00	ppm	0.00
162) Chrysene-d12b	13.96	240	564304	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	510066	40.00	ppm	0.00
166) Acenaphthene-d10b	6.91	164	296539	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	510066	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	154937	40.00	ppm	-0.01
175) Chrysene-d12c	13.96	240	564304	40.00	ppm	0.00
177) Chrysene-d12d	13.96	240	564304	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	510066	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.62	112	504304	95.47	ppm	0.00
Spiked Amount 50.000			Recovery = 190.94%			
8) Phenol-d5	4.34	99	665130	90.79	ppm	0.00
Spiked Amount 50.000			Recovery = 181.58%			
25) Nitrobenzene-d5	5.01	82	564235	90.33	ppm	0.00
Spiked Amount 50.000			Recovery = 180.66%			
51) 2-Fluorobiphenyl	6.31	172	817189	89.36	ppm	0.00
Spiked Amount 50.000			Recovery = 178.72%			
73) 2,4,6-Tribromophenol	7.78	330	135621	108.68	ppm	0.00
Spiked Amount 50.000			Recovery = 217.36%			
85) Terphenyl-d14	11.76	244	1043972	94.98	ppm	0.00
Spiked Amount 50.000			Recovery = 189.96%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.14	88	258973	100.70	ppm	97
3) Pyridine	2.46	79	643121	99.38	ppm	94
4) N-Nitrosodimethylamine	2.43	42	245984	92.35	ppm	94
6) Indene	4.79	116	733804	86.96	ppm	99
7) Cumene	4.00	105	1106789	88.24	ppm	96
9) Phenol	4.36	94	673839	86.23	ppm	90
10) Aniline	4.36	93	771951	89.76	ppm	98
11) bis(2-Chloroethyl)ether	4.41	93	493082	93.47	ppm	99
12) 2-Chlorophenol	4.45	128	475472	93.87	ppm	99
13) Decane	4.48	43	386330	79.21	ppm	85
14) 1,3-Dichlorobenzene	4.56	146	483497	94.46	ppm	96
15) 1,4-Dichlorobenzene	4.61	146	475144	94.54	ppm	95

(#) = qualifier out of range (m) = manual integration
P105970.D MP4681.M Mon Jul 11 14:10:31 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105970.D Vial: 4
Acq On : 11 Jul 2016 10:00 am Operator: brittanp
Sample : ic4681-100 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:08:54 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:08:46 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.70	108	313515	85.59	ppm		99
17) 1,2-Dichlorobenzene	4.72	146	422132	92.33	ppm		98
18) Acetophenone	4.90	105	560329	84.09	ppm		78
19) 2-Methylphenol	4.80	108	390278	86.32	ppm		98
20) 2,2'-oxybis(1-Chloropropan	4.80	121	149055	94.99	ppm	#	71
21) 3&4-Methylphenol	4.90	108	402685	85.84	ppm		99
22) n-Nitroso-di-n-propylamine	4.90	70	268327	76.19	ppm	#	86
23) Hexachloroethane	4.97	201	199262	97.12	ppm		95
26) Nitrobenzene	5.02	77	540918	88.13	ppm		99
27) Quinoline	5.78	129	937207	96.58	ppm		99
28) Isophorone	5.20	82	935893	89.13	ppm		96
29) 2-Nitrophenol	5.25	139	249573	90.35	ppm		72
30) 2,4-Dimethylphenol	5.28	107	484645	93.10	ppm		95
31) Benzoic acid	5.39	105	461524	101.58	ppm		97
32) bis(2-Chloroethoxy)methane	5.35	93	548072	91.51	ppm		97
33) 2,4-Dichlorophenol	5.43	162	389294	94.92	ppm		95
34) 2,6-Dichlorophenol	5.58	162	377758	94.88	ppm		98
35) 1,3,5-Trichlorobenzene	5.26	180	417165	90.80	ppm		96
36) 1,2,4-Trichlorobenzene	5.48	180	404127	93.12	ppm		96
37) 1,2,3-Trichlorobenzene	5.64	180	389536	91.42	ppm		99
38) Naphthalene	5.54	128	1040492	85.30	ppm		97
39) 4-Chloroaniline	5.58	127	530806	87.24	ppm		98
40) 2,3-Dichloroaniline	6.24	161	442024	91.26	ppm		99
41) Caprolactam	5.85	55	305018	94.48	ppm		95
42) Hexachlorobutadiene	5.62	225	271395	94.74	ppm		100
43) 4-Chloro-3-methylphenol	5.93	107	439835	92.58	ppm		98
44) 2-Methylnaphthalene	6.03	141	674924	88.15	ppm		98
45) 1-Methylnaphthalene	6.10	142	784033	90.05	ppm		98
46) Dimethylnaphthalene	6.53	156	718268	90.78	ppm		98
48) Hexachlorocyclopentadiene	6.15	237	635521	192.64	ppm		94
49) 2,4,6-Trichlorophenol	6.25	196	305558	93.83	ppm		98
50) 2,4,5-Trichlorophenol	6.28	196	322781	96.18	ppm		100
52) 2-Chloronaphthalene	6.41	162	691732	89.75	ppm		95
53) Biphenyl	6.39	154	946157	87.30	ppm		95
54) 2-Nitroaniline	6.50	65	367658	92.26	ppm		98
55) Dimethylphthalate	6.65	163	833194	93.76	ppm		98
56) Acenaphthylene	6.77	152	1158116	87.09	ppm		97
57) 2,6-Dinitrotoluene	6.71	165	207741	99.26	ppm		92
58) 3-Nitroaniline	6.87	138	277616	98.43	ppm		94
59) Acenaphthene	6.94	153	739193	92.67	ppm		97
61) 4-Nitrophenol	7.04	109	198243	97.15	ppm		93
62) Dibenzofuran	7.11	168	1114971	89.59	ppm		96
63) 2,4-Dinitrotoluene	7.10	165	290570	95.50	ppm		98
64) 2,3,4,6-Tetrachlorophenol	7.24	232	289083	97.77	ppm		96
65) Diethylphthalate	7.36	149	950658	89.95	ppm		97
66) Fluorene	7.49	166	917679	91.47	ppm		99
67) 4-Chlorophenyl-phenylether	7.49	204	491489	96.81	ppm		93
68) 4-Nitroaniline	7.53	138	272907	95.37	ppm		98
71) n-Nitrosodiphenylamine	7.63	169	665423	96.12	ppm		99

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

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105970.D Vial: 4
Acq On : 11 Jul 2016 10:00 am Operator: brittanp
Sample : ic4681-100 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:08:54 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:08:46 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
72)	1,2-Diphenylhydrazine	7.68	77	1033323	86.21	ppm	91
74)	4-Bromophenyl-phenylether	8.11	248	303259	98.41	ppm	96
75)	Hexachlorobenzene	8.18	284	301328	100.58	ppm	95
76)	Pentachlorophenol	8.47	266	412736	205.42	ppm	96
77)	Phenanthrene	8.78	178	1204401	94.13	ppm	96
78)	Anthracene	8.86	178	1221669	93.52	ppm	97
79)	Carbazole	9.14	167	1302557	93.31	ppm	98
80)	Di-n-butylphthalate	9.83	149	1630735	90.32	ppm	98
81)	Fluoranthene	10.89	202	1663636	93.39	ppm	98
82)	Octadecane	8.64	57	720479	85.70	ppm	94
84)	Pyrene	11.33	202	1655457	89.71	ppm	99
86)	Butylbenzylphthalate	12.94	149	823875	93.23	ppm	96
87)	Benzo[a]anthracene	13.94	228	1504480	93.65	ppm	98
88)	3,3'-Dichlorobenzidine	14.00	252	555807	97.78	ppm	99
89)	Chrysene	14.03	228	1332014	93.39	ppm	96
90)	bis(2-Ethylhexyl)phthalate	14.34	149	950960	91.72	ppm	97
92)	Di-n-octylphthalate	15.79	149	1640193	93.30	ppm	98
93)	Benzo[b]fluoranthene	16.25	252	1456865	99.02	ppm	97
94)	Benzo[k]fluoranthene	16.32	252	1120193	93.93	ppm	98
95)	Benzo[a]pyrene	16.88	252	1222522	98.23	ppm	98
96)	Indeno[1,2,3-cd]pyrene	18.94	276	943271	101.51	ppm	98
97)	Dibenz(a,h)acridine	18.58	279	980561	104.46	ppm	97
98)	Dibenz[a,h]anthracene	19.00	278	859544	101.40	ppm	98
99)	7,12-Dimethylbenz(a)anthra	16.28	256	666242	103.38	ppm	98
100)	Benzo[g,h,i]perylene	19.37	276	943114	100.62	ppm	99

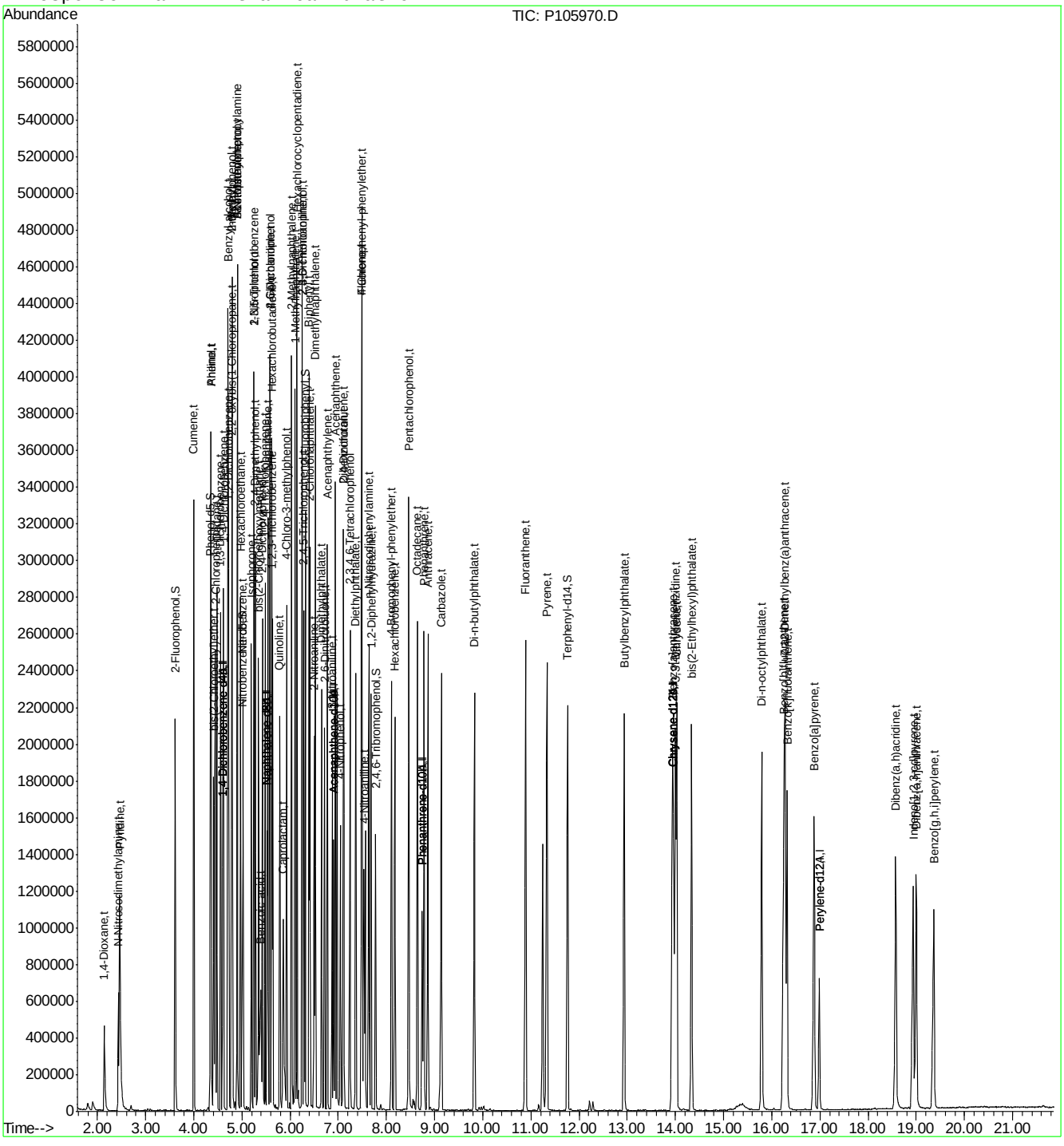
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105970.D Vial: 4
Acq On : 11 Jul 2016 10:00 am Operator: brittanp
Sample : ic4681-100 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:10 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:08:46 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105976.D Vial: 10
Acq On : 11 Jul 2016 10:29 am Operator: brittanp
Sample : ic4681-1 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:32:47 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:31:29 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	182565	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	601278	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	349943	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	633167	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	618058	40.00	ppm	-0.01
91) Perylene-d12	16.98	264	519846	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	182565	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	601278	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	349943	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	633167	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	618058	40.00	ppm	-0.01
154) Perylene-d12A	16.98	264	519846	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	182565	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	633167	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	618058	40.00	ppm	-0.01
164) Naphthalene-d8b	5.52	136	601278	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	349943	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	601278	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	182565	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	617907	40.00	ppm	-0.01
177) Chrysene-d12d	13.95	240	617907	40.00	ppm	-0.01
179) Naphthalene-d8d	5.52	136	601278	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.62	112	5388	0.86	ppm	0.00
Spiked Amount 50.000			Recovery = 1.72%			
8) Phenol-d5	4.34	99	7595	0.86	ppm	0.00
Spiked Amount 50.000			Recovery = 1.72%			
25) Nitrobenzene-d5	5.00	82	7430	0.98	ppm	0.00
Spiked Amount 50.000			Recovery = 1.96%			
51) 2-Fluorobiphenyl	6.30	172	12222	1.08	ppm	0.00
Spiked Amount 50.000			Recovery = 2.16%			
73) 2,4,6-Tribromophenol	7.77	330	1226	0.86	ppm	0.00
Spiked Amount 50.000			Recovery = 1.72%			
85) Terphenyl-d14	11.75	244	12052	1.01	ppm	0.00
Spiked Amount 50.000			Recovery = 2.02%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.15	88	3092	0.94	ppm	91
3) Pyridine	2.48	79	6312	0.77	ppm	92
4) N-Nitrosodimethylamine	2.44	42	2505	0.82	ppm	97
6) Indene	4.79	116	11451	1.08	ppm	90
7) Cumene	4.00	105	17447	1.10	ppm	94
9) Phenol	4.35	94	11678	1.17	ppm	76
10) Aniline	4.35	93	13196	1.14	ppm	95
11) bis(2-Chloroethyl)ether	4.41	93	7008	1.05	ppm	91
12) 2-Chlorophenol	4.44	128	6392	1.02	ppm	84
13) Decane	4.48	43	7672	1.18	ppm	92
14) 1,3-Dichlorobenzene	4.56	146	6792	1.07	ppm	97
15) 1,4-Dichlorobenzene	4.61	146	6255	1.03	ppm	94

(#) = qualifier out of range (m) = manual integration
P105976.D MP4681.M Mon Jul 11 14:35:08 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105976.D Vial: 10
Acq On : 11 Jul 2016 10:29 am Operator: brittanp
Sample : ic4681-1 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:32:47 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:31:29 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.70	108	4889	1.13	ppm		92
17) 1,2-Dichlorobenzene	4.72	146	5887	1.03	ppm		95
18) Acetophenone	4.89	105	9707	1.15	ppm		87
19) 2-Methylphenol	4.79	108	5761	1.04	ppm		97
20) 2,2'-oxybis(1-Chloropropan	4.80	121	2261	1.18	ppm		99
21) 3&4-Methylphenol	4.89	108	6809	1.15	ppm		97
22) n-Nitroso-di-n-propylamine	4.89	70	5303	1.15	ppm	#	90
23) Hexachloroethane	4.97	201	2366	1.00	ppm		94
26) Nitrobenzene	5.01	77	9338	1.23	ppm		90
27) Quinoline	5.77	129	12438	1.04	ppm		91
28) Isophorone	5.18	82	14497	1.11	ppm		91
29) 2-Nitrophenol	5.24	139	2814	0.87	ppm		93
30) 2,4-Dimethylphenol	5.27	107	6259	0.95	ppm		84
31) Benzoic acid	5.31	105	3659	0.74	ppm		82
32) bis(2-Chloroethoxy)methane	5.34	93	8219	1.08	ppm		97
33) 2,4-Dichlorophenol	5.42	162	4981	1.02	ppm		98
34) 2,6-Dichlorophenol	5.58	162	4820	1.01	ppm		87
35) 1,3,5-Trichlorobenzene	5.25	180	5656	1.01	ppm		96
36) 1,2,4-Trichlorobenzene	5.47	180	5860	1.13	ppm		80
37) 1,2,3-Trichlorobenzene	5.63	180	5498	1.09	ppm		94
38) Naphthalene	5.53	128	17083	1.12	ppm		93
39) 4-Chloroaniline	5.57	127	7377	0.99	ppm		93
40) 2,3-Dichloroaniline	6.24	161	6261	1.06	ppm		82
41) Caprolactam	5.79	55	4095	1.04	ppm		90
42) Hexachlorobutadiene	5.61	225	3248	0.98	ppm		89
43) 4-Chloro-3-methylphenol	5.91	107	5039	0.89	ppm		82
44) 2-Methylnaphthalene	6.02	141	9529	1.03	ppm		91
45) 1-Methylnaphthalene	6.10	142	11233	1.05	ppm		98
46) Dimethylnaphthalene	6.52	156	10641	1.11	ppm		98
48) Hexachlorocyclopentadiene	6.14	237	5413	1.55	ppm		85
49) 2,4,6-Trichlorophenol	6.24	196	3477	0.91	ppm		96
50) 2,4,5-Trichlorophenol	6.27	196	4082	1.03	ppm		97
52) 2-Chloronaphthalene	6.40	162	10789	1.14	ppm		96
53) Biphenyl	6.39	154	13857	1.05	ppm		97
54) 2-Nitroaniline	6.49	65	5138	1.08	ppm		89
55) Dimethylphthalate	6.64	163	12401	1.14	ppm		99
56) Acenaphthylene	6.77	152	16815	1.04	ppm		99
57) 2,6-Dinitrotoluene	6.70	165	2279	0.96	ppm		94
58) 3-Nitroaniline	6.86	138	2745	0.81	ppm		77
59) Acenaphthene	6.93	153	9904	1.03	ppm		91
60) 2,4-Dinitrophenol	6.96	184	449	0.35	ppm	#	59
61) 4-Nitrophenol	7.03	109	1642	0.75	ppm		84
62) Dibenzofuran	7.10	168	16498	1.07	ppm		97
63) 2,4-Dinitrotoluene	7.09	165	2996	0.87	ppm		87
64) 2,3,4,6-Tetrachlorophenol	7.23	232	2815	0.87	ppm		95
65) Diethylphthalate	7.35	149	12765	1.03	ppm		99
66) Fluorene	7.48	166	12512	1.04	ppm		95
67) 4-Chlorophenyl-phenylether	7.48	204	6241	1.03	ppm		89
68) 4-Nitroaniline	7.49	138	3092	0.93	ppm		87

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

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105976.D Vial: 10
Acq On : 11 Jul 2016 10:29 am Operator: brittanp
Sample : ic4681-1 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:32:47 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:31:29 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

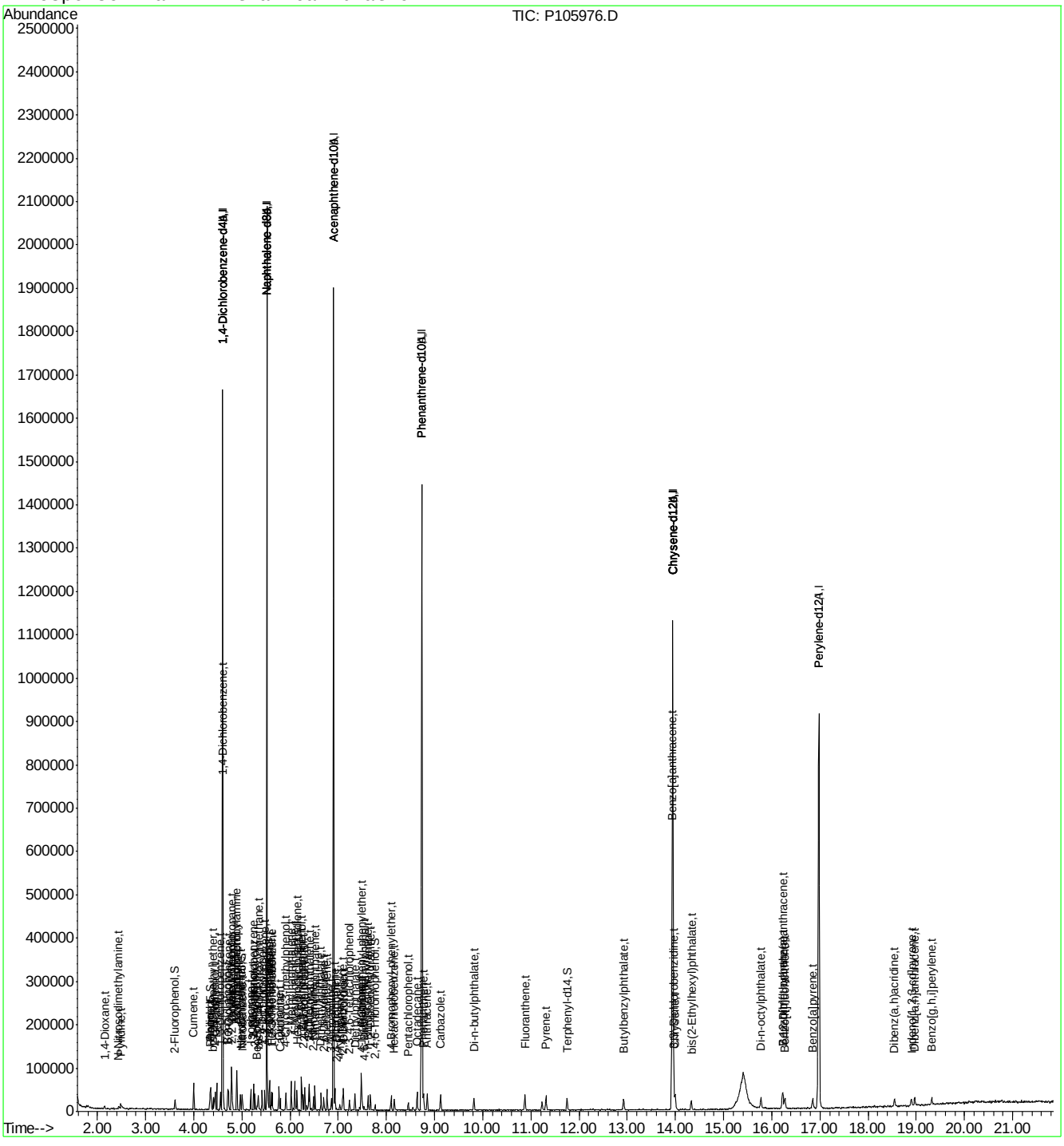
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
70)	4,6-Dinitro-2-methylphenol	7.54	198	785	0.40	ppm	#	39
71)	n-Nitrosodiphenylamine	7.62	169	8374	1.02	ppm		93
72)	1,2-Diphenylhydrazine	7.66	77	16207	1.09	ppm		91
74)	4-Bromophenyl-phenylether	8.10	248	3251	0.91	ppm		97
75)	Hexachlorobenzene	8.17	284	3764	1.05	ppm		71
76)	Pentachlorophenol	8.46	266	2275	1.12	ppm		85
77)	Phenanthrene	8.77	178	16717	1.08	ppm		92
78)	Anthracene	8.85	178	16614	1.04	ppm		95
79)	Carbazole	9.12	167	17090	1.02	ppm		92
80)	Di-n-butylphthalate	9.82	149	19410	0.93	ppm		96
81)	Fluoranthene	10.88	202	21098	1.00	ppm		94
82)	Octadecane	8.63	57	11328	1.09	ppm		93
84)	Pyrene	11.31	202	21969	1.07	ppm		97
86)	Butylbenzylphthalate	12.93	149	8366	0.90	ppm		98
87)	Benzo[a]anthracene	13.93	228	18712	1.06	ppm		91
88)	3,3'-Dichlorobenzidine	13.98	252	5867	0.99	ppm		83
89)	Chrysene	14.00	228	16456	1.05	ppm		98
90)	bis(2-Ethylhexyl)phthalate	14.33	149	9714	0.88	ppm		90
92)	Di-n-octylphthalate	15.77	149	20803	0.96	ppm		88
93)	Benzo[b]fluoranthene	16.22	252	17101	0.91	ppm		88
94)	Benzo[k]fluoranthene	16.27	252	15633	0.98	ppm		97
95)	Benzo[a]pyrene	16.85	252	15250	0.95	ppm		85
96)	Indeno[1,2,3-cd]pyrene	18.89	276	10964	0.90	ppm		78
97)	Dibenz(a,h)acridine	18.54	279	9955	0.81	ppm		88
98)	Dibenz[a,h]anthracene	18.96	278	11046	0.94	ppm		91
99)	7,12-Dimethylbenz(a)anthra	16.23	256	8433	1.00	ppm		89
100)	Benzo[g,h,i]perylene	19.32	276	11879	0.92	ppm		93

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105976.D Vial: 10
Acq On : 11 Jul 2016 10:29 am Operator: brittanp
Sample : ic4681-1 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:35 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:31:29 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105975.D Vial: 9
Acq On : 11 Jul 2016 10:58 am Operator: brittanp
Sample : ic4681-2 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:40:45 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:39:59 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	183298	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	606721	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	344574	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	631205	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	623252	40.00	ppm	-0.01
91) Perylene-d12	16.98	264	495369	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	183298	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	606721	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	344574	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	631205	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	623252	40.00	ppm	-0.01
154) Perylene-d12A	16.98	264	495369	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	183298	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	631205	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	623252	40.00	ppm	-0.01
164) Naphthalene-d8b	5.52	136	606721	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	344574	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	606721	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	183298	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	623252	40.00	ppm	-0.01
177) Chrysene-d12d	13.95	240	623252	40.00	ppm	-0.01
179) Naphthalene-d8d	5.52	136	606721	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.61	112	12601	2.04	ppm	0.00
Spiked Amount 50.000			Recovery = 4.08%			
8) Phenol-d5	4.34	99	19410	2.23	ppm	0.00
Spiked Amount 50.000			Recovery = 4.46%			
25) Nitrobenzene-d5	5.00	82	16836	2.20	ppm	0.00
Spiked Amount 50.000			Recovery = 4.40%			
51) 2-Fluorobiphenyl	6.30	172	26284	2.34	ppm	0.00
Spiked Amount 50.000			Recovery = 4.68%			
73) 2,4,6-Tribromophenol	7.77	330	2505	1.80	ppm	0.00
Spiked Amount 50.000			Recovery = 3.60%			
85) Terphenyl-d14	11.75	244	25180	2.08	ppm	0.00
Spiked Amount 50.000			Recovery = 4.16%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.15	88	6203	1.90	ppm	98
3) Pyridine	2.48	79	15558	1.94	ppm	84
4) N-Nitrosodimethylamine	2.45	42	6325	2.12	ppm	93
6) Indene	4.79	116	24174	2.24	ppm	90
7) Cumene	4.00	105	35710	2.21	ppm	99
9) Phenol	4.34	94	23691	2.31	ppm	77
10) Aniline	4.35	93	28267	2.40	ppm	94
11) bis(2-Chloroethyl)ether	4.41	93	15125	2.24	ppm	92
12) 2-Chlorophenol	4.44	128	13980	2.22	ppm	96
13) Decane	4.48	43	16757	2.41	ppm	98
14) 1,3-Dichlorobenzene	4.56	146	14877	2.31	ppm	85
15) 1,4-Dichlorobenzene	4.61	146	12898	2.10	ppm	92

(#) = qualifier out of range (m) = manual integration
P105975.D MP4681.M Mon Jul 11 14:42:58 2016

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105975.D Vial: 9
Acq On : 11 Jul 2016 10:58 am Operator: brittanp
Sample : ic4681-2 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:40:45 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:39:59 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.70	108	9413	2.13	ppm		95
17)	1,2-Dichlorobenzene	4.72	146	12802	2.21	ppm		95
18)	Acetophenone	4.89	105	19857	2.31	ppm	#	68
19)	2-Methylphenol	4.79	108	12271	2.19	ppm		99
20)	2,2'-oxybis(1-Chloropropan	4.80	121	4046	2.05	ppm	#	46
21)	3&4-Methylphenol	4.89	108	14062	2.32	ppm		87
22)	n-Nitroso-di-n-propylamine	4.89	70	11756	2.38	ppm		98
23)	Hexachloroethane	4.97	201	4736	1.99	ppm		96
26)	Nitrobenzene	5.01	77	17369	2.20	ppm		96
27)	Quinoline	5.77	129	25335	2.10	ppm		99
28)	Isophorone	5.18	82	29374	2.20	ppm		95
29)	2-Nitrophenol	5.24	139	6610	2.07	ppm		72
30)	2,4-Dimethylphenol	5.27	107	14844	2.25	ppm		91
31)	Benzoic acid	5.31	105	8595	1.77	ppm		78
32)	bis(2-Chloroethoxy)methane	5.34	93	17475	2.26	ppm		88
33)	2,4-Dichlorophenol	5.42	162	10502	2.12	ppm		98
34)	2,6-Dichlorophenol	5.58	162	10139	2.10	ppm		95
35)	1,3,5-Trichlorobenzene	5.25	180	12481	2.20	ppm		96
36)	1,2,4-Trichlorobenzene	5.47	180	10957	2.05	ppm		91
37)	1,2,3-Trichlorobenzene	5.63	180	10666	2.07	ppm		98
38)	Naphthalene	5.53	128	34870	2.24	ppm		90
39)	4-Chloroaniline	5.57	127	16887	2.24	ppm		91
40)	2,3-Dichloroaniline	6.24	161	13685	2.28	ppm		95
41)	Caprolactam	5.79	55	8510	2.14	ppm		89
42)	Hexachlorobutadiene	5.61	225	6727	2.02	ppm		96
43)	4-Chloro-3-methylphenol	5.91	107	11988	2.13	ppm		96
44)	2-Methylnaphthalene	6.02	141	20782	2.21	ppm		98
45)	1-Methylnaphthalene	6.10	142	24347	2.24	ppm		93
46)	Dimethylnaphthalene	6.52	156	21604	2.20	ppm		92
48)	Hexachlorocyclopentadiene	6.14	237	11259	3.36	ppm		99
49)	2,4,6-Trichlorophenol	6.24	196	8313	2.23	ppm		85
50)	2,4,5-Trichlorophenol	6.27	196	8429	2.15	ppm		88
52)	2-Chloronaphthalene	6.40	162	22649	2.38	ppm		93
53)	Biphenyl	6.39	154	30732	2.34	ppm		92
54)	2-Nitroaniline	6.49	65	10313	2.17	ppm		90
55)	Dimethylphthalate	6.64	163	24317	2.23	ppm		96
56)	Acenaphthylene	6.77	152	36002	2.25	ppm		93
57)	2,6-Dinitrotoluene	6.70	165	4229	1.82	ppm		86
58)	3-Nitroaniline	6.86	138	6810	2.10	ppm		81
59)	Acenaphthene	6.93	153	21357	2.24	ppm		96
60)	2,4-Dinitrophenol	6.96	184	1922	7.05	ppm		77
61)	4-Nitrophenol	7.03	109	3489	1.67	ppm		90
62)	Dibenzofuran	7.10	168	35760	2.34	ppm		90
63)	2,4-Dinitrotoluene	7.09	165	6564	1.97	ppm		92
64)	2,3,4,6-Tetrachlorophenol	7.23	232	5733	1.83	ppm		93
65)	Diethylphthalate	7.35	149	26794	2.19	ppm		97
66)	Fluorene	7.48	166	25461	2.14	ppm		97
67)	4-Chlorophenyl-phenylether	7.48	204	13467	2.24	ppm		91
68)	4-Nitroaniline	7.50	138	6722	2.07	ppm		87

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

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105975.D Vial: 9
Acq On : 11 Jul 2016 10:58 am Operator: brittanp
Sample : ic4681-2 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:40:45 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:39:59 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.54	198	2473	1.19	ppm	89
71)	n-Nitrosodiphenylamine	7.62	169	17194	2.09	ppm	94
72)	1,2-Diphenylhydrazine	7.67	77	34030	2.27	ppm	97
74)	4-Bromophenyl-phenylether	8.10	248	7056	2.01	ppm	83
75)	Hexachlorobenzene	8.17	284	7262	2.03	ppm	93
76)	Pentachlorophenol	8.46	266	5329	2.64	ppm	91
77)	Phenanthrene	8.77	178	34484	2.21	ppm	98
78)	Anthracene	8.85	178	34914	2.19	ppm	98
79)	Carbazole	9.12	167	36725	2.19	ppm	97
80)	Di-n-butylphthalate	9.82	149	43519	2.11	ppm	95
81)	Fluoranthene	10.88	202	43483	2.07	ppm	95
82)	Octadecane	8.64	57	23712	2.26	ppm	90
84)	Pyrene	11.31	202	45893	2.20	ppm	95
86)	Butylbenzylphthalate	12.92	149	18826	2.03	ppm	94
87)	Benzo[a]anthracene	13.93	228	38284	2.13	ppm	96
88)	3,3'-Dichlorobenzidine	13.98	252	11349	1.90	ppm	91
89)	Chrysene	14.00	228	34150	2.14	ppm	97
90)	bis(2-Ethylhexyl)phthalate	14.33	149	22544	2.05	ppm	96
92)	Di-n-octylphthalate	15.78	149	37227	1.81	ppm	94
93)	Benzo[b]fluoranthene	16.22	252	34121	1.92	ppm	95
94)	Benzo[k]fluoranthene	16.27	252	33280	2.19	ppm	94
95)	Benzo[a]pyrene	16.85	252	28700	1.88	ppm	99
96)	Indeno[1,2,3-cd]pyrene	18.89	276	21207	1.86	ppm	87
97)	Dibenz(a,h)acridine	18.54	279	21155	1.86	ppm	93
98)	Dibenz[a,h]anthracene	18.96	278	23694	2.14	ppm	97
99)	7,12-Dimethylbenz(a)anthra	16.23	256	15846	1.98	ppm	91
100)	Benzo[g,h,i]perylene	19.32	276	24470	2.01	ppm	84

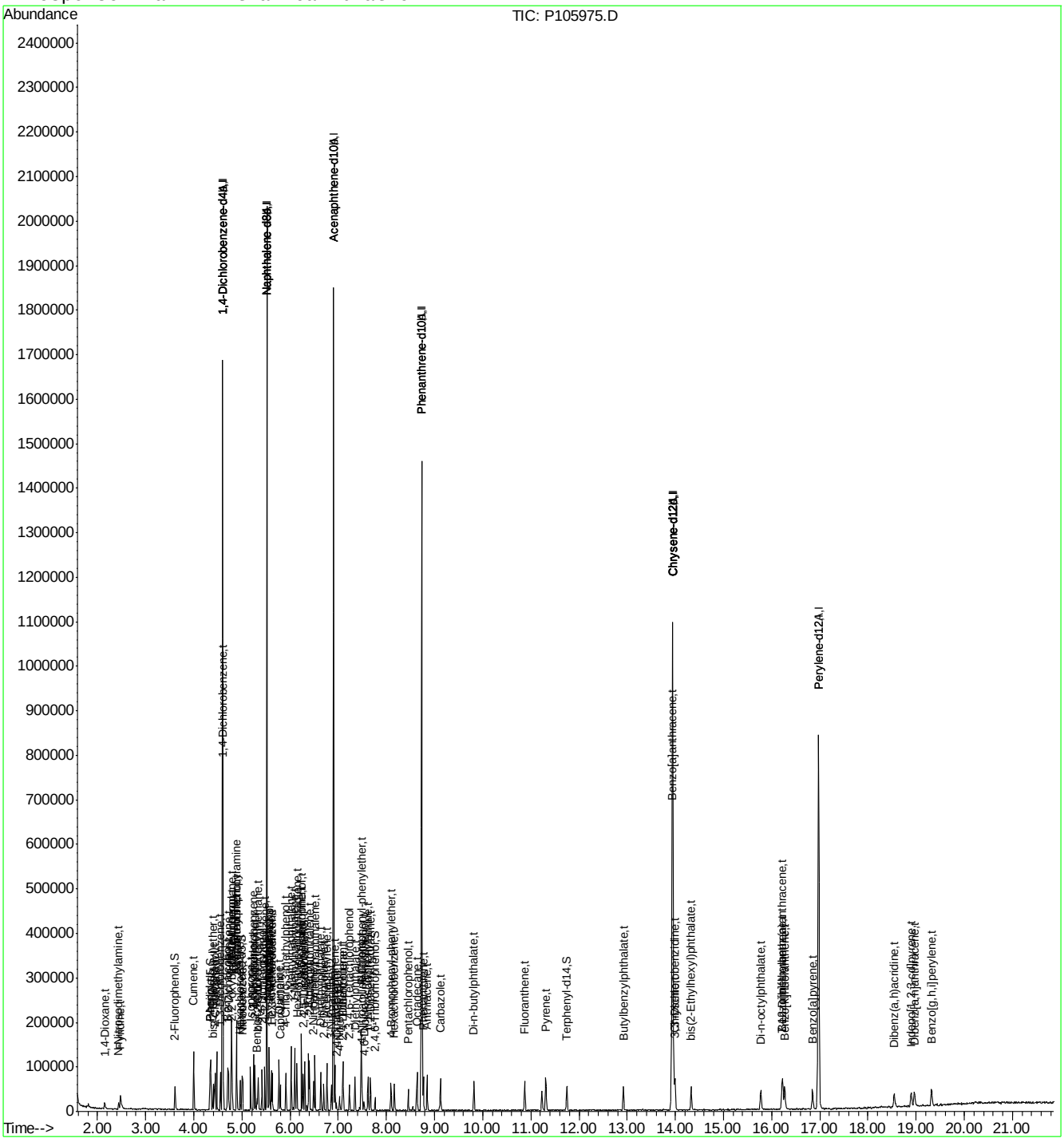
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105975.D Vial: 9
Acq On : 11 Jul 2016 10:58 am Operator: brittanp
Sample : ic4681-2 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:42 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:39:59 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105971.D Vial: 5
Acq On : 11 Jul 2016 11:27 am Operator: brittanp
Sample : ic4681-80 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:11:31 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:11:28 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	170632	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	556644	40.00	ppm	0.00
47) Acenaphthene-d10	6.91	164	324687	40.00	ppm	0.00
69) Phenanthrene-d10	8.74	188	574915	40.00	ppm	0.00
83) Chrysene-d12	13.96	240	591491	40.00	ppm	0.00
91) Perylene-d12	16.98	264	419486	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	170632	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	556644	40.00	ppm	0.00
120) Acenaphthene-d10A	6.91	164	324687	40.00	ppm	0.00
131) Phenanthrene-d10A	8.74	188	574915	40.00	ppm	0.00
146) Chrysene-d12A	13.96	240	591491	40.00	ppm	0.00
154) Perylene-d12A	16.98	264	419486	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	170632	40.00	ppm	0.00
160) Phenanthrene-d10b	8.74	188	574915	40.00	ppm	0.00
162) Chrysene-d12b	13.96	240	591491	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	556644	40.00	ppm	0.00
166) Acenaphthene-d10b	6.91	164	324687	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	556644	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	170632	40.00	ppm	-0.01
175) Chrysene-d12c	13.96	240	591491	40.00	ppm	0.00
177) Chrysene-d12d	13.96	240	591491	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	556644	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.62	112	452687	79.62	ppm	0.00
Spiked Amount 50.000			Recovery = 159.24%			
8) Phenol-d5	4.34	99	596399	77.49	ppm	0.00
Spiked Amount 50.000			Recovery = 154.98%			
25) Nitrobenzene-d5	5.00	82	503663	77.64	ppm	0.00
Spiked Amount 50.000			Recovery = 155.28%			
51) 2-Fluorobiphenyl	6.31	172	734354	77.46	ppm	0.00
Spiked Amount 50.000			Recovery = 154.92%			
73) 2,4,6-Tribromophenol	7.77	330	112224	81.06	ppm	0.00
Spiked Amount 50.000			Recovery = 162.12%			
85) Terphenyl-d14	11.76	244	883055	78.62	ppm	0.00
Spiked Amount 50.000			Recovery = 157.24%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.14	88	241514	84.98	ppm	94
3) Pyridine	2.46	79	589361	82.95	ppm	93
4) N-Nitrosodimethylamine	2.43	42	216472	76.73	ppm	86
6) Indene	4.79	116	668486	76.95	ppm	98
7) Cumene	4.00	105	1014112	78.00	ppm	98
9) Phenol	4.35	94	617529	77.06	ppm	98
10) Aniline	4.36	93	708985	78.89	ppm	81
11) bis(2-Chloroethyl)ether	4.41	93	442428	78.73	ppm	98
12) 2-Chlorophenol	4.45	128	420636	77.79	ppm	99
13) Decane	4.48	43	354900	73.74	ppm	93
14) 1,3-Dichlorobenzene	4.56	146	435938	79.54	ppm	97
15) 1,4-Dichlorobenzene	4.61	146	422587	78.49	ppm	98

(#) = qualifier out of range (m) = manual integration
P105971.D MP4681.M Mon Jul 11 14:14:00 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105971.D Vial: 5
Acq On : 11 Jul 2016 11:27 am Operator: brittanp
Sample : ic4681-80 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:11:31 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:11:28 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.71	108	294203	78.59	ppm		95
17)	1,2-Dichlorobenzene	4.72	146	383013	79.10	ppm		97
18)	Acetophenone	4.90	105	509654	75.45	ppm		78
19)	2-Methylphenol	4.79	108	356687	76.89	ppm		100
20)	2,2'-oxybis(1-Chloropropan	4.80	121	131796	78.22	ppm	#	79
21)	3&4-Methylphenol	4.90	108	358509	74.68	ppm		99
22)	n-Nitroso-di-n-propylamine	4.90	70	248747	72.80	ppm	#	82
23)	Hexachloroethane	4.97	201	172319	77.38	ppm		95
26)	Nitrobenzene	5.02	77	486401	77.20	ppm		97
27)	Quinoline	5.78	129	808809	77.70	ppm		99
28)	Isophorone	5.19	82	839226	77.45	ppm		99
29)	2-Nitrophenol	5.24	139	223009	77.73	ppm		94
30)	2,4-Dimethylphenol	5.28	107	431799	78.72	ppm		95
31)	Benzoic acid	5.39	105	394099	78.86	ppm		95
32)	bis(2-Chloroethoxy)methane	5.35	93	493682	78.88	ppm		98
33)	2,4-Dichlorophenol	5.42	162	340022	77.95	ppm		98
34)	2,6-Dichlorophenol	5.58	162	321736	75.99	ppm		97
35)	1,3,5-Trichlorobenzene	5.25	180	376177	78.64	ppm		97
36)	1,2,4-Trichlorobenzene	5.48	180	356610	77.98	ppm		97
37)	1,2,3-Trichlorobenzene	5.63	180	348359	78.27	ppm		98
38)	Naphthalene	5.53	128	952618	77.24	ppm		97
39)	4-Chloroaniline	5.58	127	478749	77.01	ppm		99
40)	2,3-Dichloroaniline	6.24	161	389351	77.02	ppm		98
41)	Caprolactam	5.85	55	264447	77.19	ppm		95
42)	Hexachlorobutadiene	5.62	225	233896	76.84	ppm		98
43)	4-Chloro-3-methylphenol	5.92	107	383314	76.78	ppm		99
44)	2-Methylnaphthalene	6.03	141	605138	76.98	ppm		97
45)	1-Methylnaphthalene	6.10	142	696258	77.11	ppm		98
46)	Dimethylnaphthalene	6.53	156	634652	77.05	ppm		98
48)	Hexachlorocyclopentadiene	6.14	237	548855	154.80	ppm		96
49)	2,4,6-Trichlorophenol	6.25	196	262626	76.00	ppm		99
50)	2,4,5-Trichlorophenol	6.28	196	282408	78.35	ppm		99
52)	2-Chloronaphthalene	6.41	162	613351	76.61	ppm		96
53)	Biphenyl	6.39	154	849454	76.44	ppm		98
54)	2-Nitroaniline	6.50	65	323632	77.16	ppm		99
55)	Dimethylphthalate	6.65	163	737366	78.22	ppm		99
56)	Acenaphthylene	6.77	152	1035801	76.05	ppm		97
57)	2,6-Dinitrotoluene	6.71	165	176599	77.35	ppm		96
58)	3-Nitroaniline	6.87	138	244099	79.67	ppm		98
59)	Acenaphthene	6.94	153	647660	76.98	ppm		95
60)	2,4-Dinitrophenol	6.97	184	254455	160.69	ppm		89
61)	4-Nitrophenol	7.04	109	169068	76.76	ppm		91
62)	Dibenzofuran	7.11	168	990728	76.70	ppm		99
63)	2,4-Dinitrotoluene	7.10	165	251528	77.24	ppm		94
64)	2,3,4,6-Tetrachlorophenol	7.24	232	249395	77.91	ppm		99
65)	Diethylphthalate	7.36	149	836748	76.13	ppm		97
66)	Fluorene	7.48	166	804560	76.50	ppm		98
67)	4-Chlorophenyl-phenylether	7.48	204	421788	77.11	ppm		98
68)	4-Nitroaniline	7.53	138	229016	74.82	ppm		98

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

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105971.D Vial: 5
Acq On : 11 Jul 2016 11:27 am Operator: brittanp
Sample : ic4681-80 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:11:31 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:11:28 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.55	198	168292	79.26	ppm	94
71)	n-Nitrosodiphenylamine	7.63	169	573281	79.42	ppm	98
72)	1,2-Diphenylhydrazine	7.68	77	919769	77.52	ppm	97
74)	4-Bromophenyl-phenylether	8.10	248	262944	80.89	ppm	98
75)	Hexachlorobenzene	8.17	284	255272	79.91	ppm	99
76)	Pentachlorophenol	8.46	266	340165	157.10	ppm	99
77)	Phenanthrene	8.78	178	1038605	78.65	ppm	96
78)	Anthracene	8.86	178	1075654	80.04	ppm	99
79)	Carbazole	9.13	167	1110134	77.39	ppm	99
80)	Di-n-butylphthalate	9.83	149	1413939	77.40	ppm	99
81)	Fluoranthene	10.89	202	1434728	78.34	ppm	97
82)	Octadecane	8.64	57	644024	77.60	ppm	96
84)	Pyrene	11.33	202	1410837	76.90	ppm	99
86)	Butylbenzylphthalate	12.93	149	698789	78.09	ppm	99
87)	Benzo[a]anthracene	13.94	228	1285878	78.87	ppm	99
88)	3,3'-Dichlorobenzidine	14.00	252	473325	80.34	ppm	100
89)	Chrysene	14.02	228	1131935	78.30	ppm	97
90)	bis(2-Ethylhexyl)phthalate	14.34	149	811950	77.94	ppm	98
92)	Di-n-octylphthalate	15.78	149	1408301	77.62	ppm	99
93)	Benzo[b]fluoranthene	16.24	252	1220613	78.07	ppm	99
94)	Benzo[k]fluoranthene	16.31	252	953748	77.23	ppm	98
95)	Benzo[a]pyrene	16.88	252	1042734	79.16	ppm	98
96)	Indeno[1,2,3-cd]pyrene	18.93	276	809932	81.01	ppm	99
97)	Dibenz(a,h)acridine	18.57	279	842284	82.19	ppm	97
98)	Dibenz[a,h]anthracene	19.00	278	726212	79.67	ppm	99
99)	7,12-Dimethylbenz(a)anthra	16.27	256	547011	78.16	ppm	99
100)	Benzo[g,h,i]perylene	19.36	276	824863	82.15	ppm	98

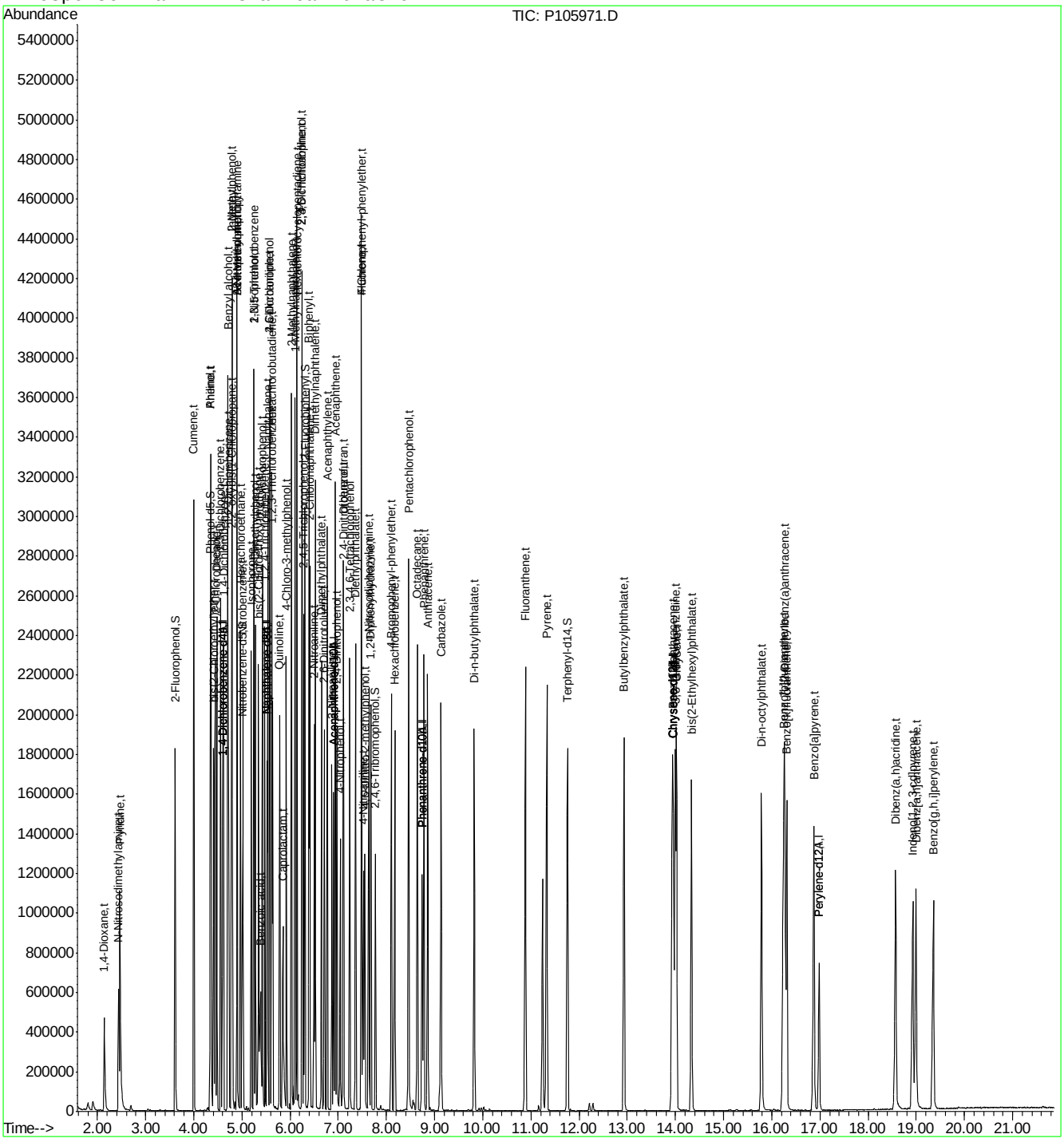
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105971.D Vial: 5
Acq On : 11 Jul 2016 11:27 am Operator: brittanp
Sample : ic4681-80 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:13 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:11:28 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105972A.D Vial: 6
Acq On : 11 Jul 2016 12:25 pm Operator: brittanp
Sample : ic4681-25 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:14:32 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:14:09 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	176551	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	584943	40.00	ppm	0.00
47) Acenaphthene-d10	6.91	164	348940	40.00	ppm	0.00
69) Phenanthrene-d10	8.74	188	617233	40.00	ppm	0.00
83) Chrysene-d12	13.96	240	632893	40.00	ppm	0.00
91) Perylene-d12	16.99	264	473534	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	176551	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	584943	40.00	ppm	0.00
120) Acenaphthene-d10A	6.91	164	348940	40.00	ppm	0.00
131) Phenanthrene-d10A	8.74	188	617233	40.00	ppm	0.00
146) Chrysene-d12A	13.96	240	632893	40.00	ppm	0.00
154) Perylene-d12A	16.99	264	473534	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	176551	40.00	ppm	0.00
160) Phenanthrene-d10b	8.74	188	617233	40.00	ppm	0.00
162) Chrysene-d12b	13.96	240	632893	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	584943	40.00	ppm	0.00
166) Acenaphthene-d10b	6.91	164	348940	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	584943	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	176551	40.00	ppm	-0.01
175) Chrysene-d12c	13.96	240	632893	40.00	ppm	0.00
177) Chrysene-d12d	13.96	240	632893	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	584943	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.61	112	153420	26.12	ppm	0.00
Spiked Amount 50.000			Recovery = 52.24%			
8) Phenol-d5	4.34	99	217308	27.58	ppm	0.00
Spiked Amount 50.000			Recovery = 55.16%			
25) Nitrobenzene-d5	5.00	82	181635	26.91	ppm	0.00
Spiked Amount 50.000			Recovery = 53.82%			
51) 2-Fluorobiphenyl	6.31	172	269379	26.72	ppm	0.00
Spiked Amount 50.000			Recovery = 53.44%			
73) 2,4,6-Tribromophenol	7.77	330	32832	21.99	ppm	0.00
Spiked Amount 50.000			Recovery = 43.98%			
85) Terphenyl-d14	11.76	244	298773	25.00	ppm	0.00
Spiked Amount 50.000			Recovery = 50.00%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.14	88	79973	26.64	ppm	99
3) Pyridine	2.46	79	209319	28.13	ppm	97
4) N-Nitrosodimethylamine	2.43	42	75386	26.18	ppm	95
6) Indene	4.79	116	269199	30.33	ppm	99
7) Cumene	4.00	105	401861	30.12	ppm	96
9) Phenol	4.35	94	251033	30.65	ppm	83
10) Aniline	4.36	93	280276	30.28	ppm	91
11) bis(2-Chloroethyl)ether	4.41	93	159220	27.53	ppm	97
12) 2-Chlorophenol	4.44	128	149317	26.94	ppm	92
13) Decane	4.48	43	163098	33.63	ppm	95
14) 1,3-Dichlorobenzene	4.56	146	150899	26.66	ppm	97
15) 1,4-Dichlorobenzene	4.61	146	144226	26.05	ppm	98

(#) = qualifier out of range (m) = manual integration
P105972A.D MP4681.M Mon Jul 11 14:16:38 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105972A.D Vial: 6
Acq On : 11 Jul 2016 12:25 pm Operator: brittanp
Sample : ic4681-25 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:14:32 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:14:09 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
16) Benzyl alcohol	4.70	108	108756	28.24 ppm		95
17) 1,2-Dichlorobenzene	4.72	146	137484	27.55 ppm		91
18) Acetophenone	4.89	105	211273	30.81 ppm	#	67
19) 2-Methylphenol	4.79	108	139734	29.50 ppm		97
20) 2,2'-oxybis(1-Chloropropan	4.80	121	46353	26.79 ppm	#	86
21) 3&4-Methylphenol	4.90	108	153496	31.60 ppm		96
22) n-Nitroso-di-n-propylamine	4.89	70	117870	34.37 ppm		95
23) Hexachloroethane	4.97	201	56716	24.89 ppm		97
26) Nitrobenzene	5.01	77	183170	27.99 ppm		94
27) Quinoline	5.77	129	282927	26.12 ppm		97
28) Isophorone	5.19	82	318860	28.30 ppm		97
29) 2-Nitrophenol	5.24	139	79957	26.77 ppm		96
30) 2,4-Dimethylphenol	5.28	107	158622	27.67 ppm		98
31) Benzoic acid	5.36	105	120315	23.02 ppm		96
32) bis(2-Chloroethoxy)methane	5.34	93	176276	26.93 ppm		98
33) 2,4-Dichlorophenol	5.42	162	118827	26.15 ppm		97
34) 2,6-Dichlorophenol	5.58	162	114335	26.14 ppm		96
35) 1,3,5-Trichlorobenzene	5.25	180	134949	27.00 ppm		98
36) 1,2,4-Trichlorobenzene	5.47	180	124946	26.22 ppm		99
37) 1,2,3-Trichlorobenzene	5.63	180	121895	26.25 ppm		97
38) Naphthalene	5.53	128	376425	29.38 ppm		97
39) 4-Chloroaniline	5.57	127	181982	28.21 ppm		93
40) 2,3-Dichloroaniline	6.24	161	143341	27.32 ppm		96
41) Caprolactam	5.82	55	92253	25.93 ppm		98
42) Hexachlorobutadiene	5.62	225	79708	25.25 ppm		97
43) 4-Chloro-3-methylphenol	5.92	107	137249	26.52 ppm		96
44) 2-Methylnaphthalene	6.03	141	228059	27.96 ppm		97
45) 1-Methylnaphthalene	6.10	142	260613	27.80 ppm		97
46) Dimethylnaphthalene	6.52	156	231313	27.06 ppm		99
48) Hexachlorocyclopentadiene	6.14	237	177149	47.00 ppm		97
49) 2,4,6-Trichlorophenol	6.24	196	90434	24.76 ppm		99
50) 2,4,5-Trichlorophenol	6.28	196	94674	24.61 ppm		97
52) 2-Chloronaphthalene	6.41	162	226534	26.70 ppm		95
53) Biphenyl	6.39	154	319843	27.18 ppm		95
54) 2-Nitroaniline	6.49	65	116854	26.23 ppm		93
55) Dimethylphthalate	6.64	163	258872	25.74 ppm		98
56) Acenaphthylene	6.77	152	392741	27.28 ppm		96
57) 2,6-Dinitrotoluene	6.70	165	58450	24.09 ppm		93
58) 3-Nitroaniline	6.86	138	81621	24.82 ppm		98
59) Acenaphthene	6.94	153	232271	26.02 ppm		97
60) 2,4-Dinitrophenol	6.96	184	71694	42.07 ppm		89
61) 4-Nitrophenol	7.03	109	53993	23.12 ppm		90
62) Dibenzofuran	7.11	168	366478	26.77 ppm		95
63) 2,4-Dinitrotoluene	7.09	165	83959	24.27 ppm		90
64) 2,3,4,6-Tetrachlorophenol	7.24	232	79603	23.34 ppm		94
65) Diethylphthalate	7.35	149	296234	25.49 ppm		97
66) Fluorene	7.48	166	294116	26.41 ppm		99
67) 4-Chlorophenyl-phenylether	7.48	204	145111	24.99 ppm		97
68) 4-Nitroaniline	7.51	138	80590	25.04 ppm		98

(#) = qualifier out of range (m) = manual integration
P105972A.D MP4681.M Mon Jul 11 14:16:38 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105972A.D Vial: 6
Acq On : 11 Jul 2016 12:25 pm Operator: brittanp
Sample : ic4681-25 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:14:32 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:14:09 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.54	198	50410	22.18	ppm	97
71)	n-Nitrosodiphenylamine	7.63	169	192696	24.93	ppm	99
72)	1,2-Diphenylhydrazine	7.68	77	360434	28.59	ppm	97
74)	4-Bromophenyl-phenylether	8.10	248	80863	23.09	ppm	95
75)	Hexachlorobenzene	8.17	284	83377	24.32	ppm	99
76)	Pentachlorophenol	8.46	266	103127	44.63	ppm	95
77)	Phenanthrene	8.78	178	363288	25.77	ppm	99
78)	Anthracene	8.86	178	380502	26.37	ppm	98
79)	Carbazole	9.13	167	400011	26.26	ppm	98
80)	Di-n-butylphthalate	9.83	149	504494	26.00	ppm	98
81)	Fluoranthene	10.89	202	508413	26.04	ppm	99
82)	Octadecane	8.64	57	258107	29.26	ppm	97
84)	Pyrene	11.32	202	505400	26.08	ppm	99
86)	Butylbenzylphthalate	12.93	149	232041	24.43	ppm	95
87)	Benzo[a]anthracene	13.94	228	441874	25.45	ppm	97
88)	3,3'-Dichlorobenzidine	13.98	252	150181	23.79	ppm	99
89)	Chrysene	14.01	228	387811	25.25	ppm	99
90)	bis(2-Ethylhexyl)phthalate	14.34	149	281272	25.45	ppm	100
92)	Di-n-octylphthalate	15.78	149	492622	24.29	ppm	99
93)	Benzo[b]fluoranthene	16.23	252	420087	24.00	ppm	99
94)	Benzo[k]fluoranthene	16.30	252	345132	25.05	ppm	98
95)	Benzo[a]pyrene	16.86	252	361717	24.41	ppm	98
96)	Indeno[1,2,3-cd]pyrene	18.92	276	273105	24.10	ppm	96
97)	Dibenz(a,h)acridine	18.56	279	269494	23.09	ppm	96
98)	Dibenz[a,h]anthracene	18.98	278	251514	24.48	ppm	98
99)	7,12-Dimethylbenz(a)anthra	16.25	256	180933	23.08	ppm	97
100)	Benzo[g,h,i]perylene	19.34	276	280387	24.52	ppm	96

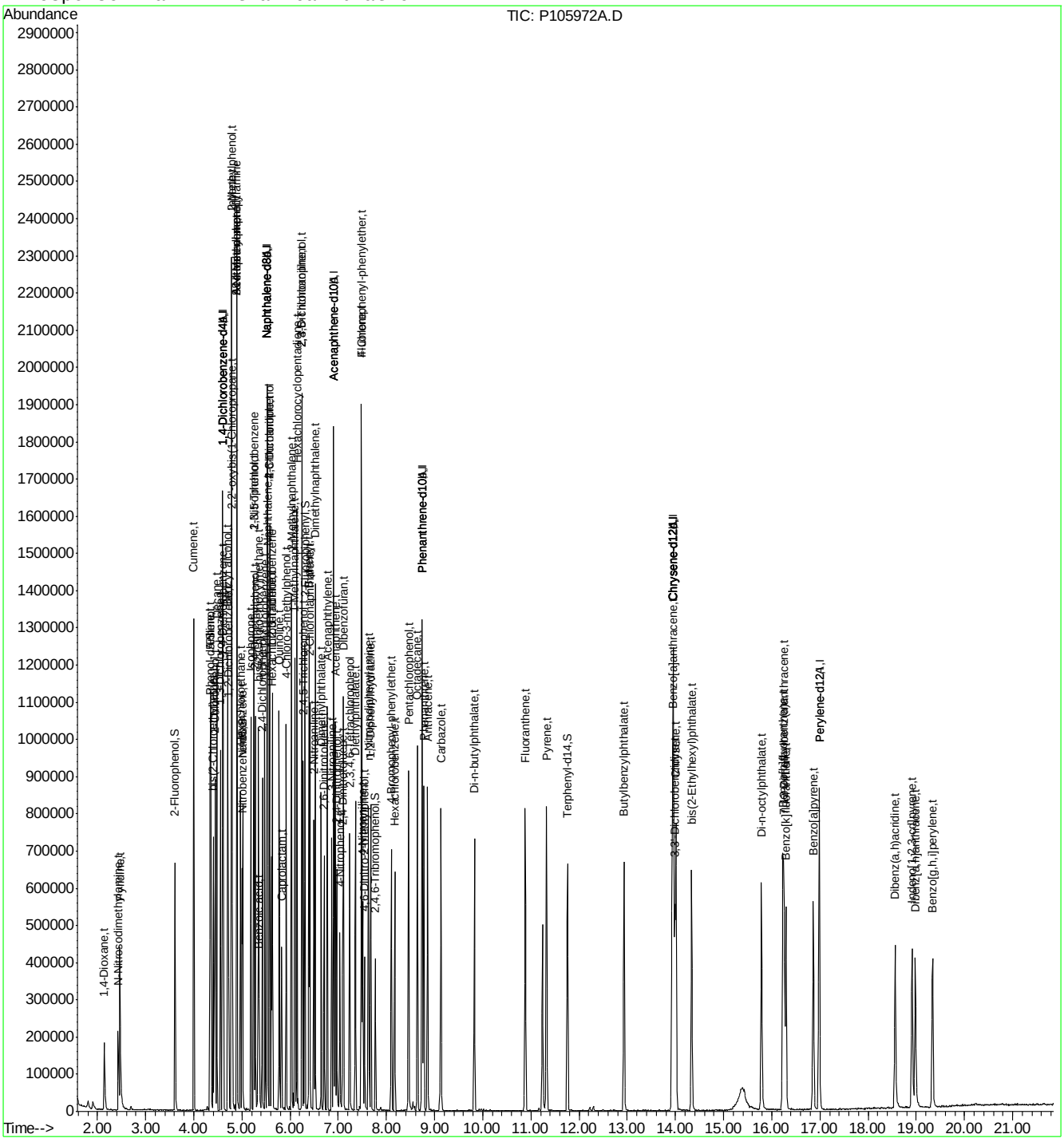
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105972A.D Vial: 6
Acq On : 11 Jul 2016 12:25 pm Operator: brittanp
Sample : ic4681-25 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:16 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:14:09 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105973.D Vial: 7
Acq On : 11 Jul 2016 12:57 pm Operator: brittanp
Sample : ic4681-10 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:23:44 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:23:24 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	185907	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	601452	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	357738	40.00	ppm	0.00
69) Phenanthrene-d10	8.74	188	643759	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	657472	40.00	ppm	0.00
91) Perylene-d12	16.98	264	495253	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	185907	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	601452	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	357738	40.00	ppm	0.00
131) Phenanthrene-d10A	8.74	188	643759	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	657472	40.00	ppm	0.00
154) Perylene-d12A	16.98	264	495253	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	185907	40.00	ppm	0.00
160) Phenanthrene-d10b	8.74	188	643759	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	657472	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	601452	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	357738	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	601452	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	185907	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	657472	40.00	ppm	0.00
177) Chrysene-d12d	13.95	240	657472	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	601452	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.61	112	67201	10.75	ppm	0.00
Spiked Amount 50.000			Recovery = 21.50%			
8) Phenol-d5	4.34	99	94484	11.10	ppm	0.00
Spiked Amount 50.000			Recovery = 22.20%			
25) Nitrobenzene-d5	5.00	82	80730	11.41	ppm	0.00
Spiked Amount 50.000			Recovery = 22.82%			
51) 2-Fluorobiphenyl	6.31	172	123323	11.73	ppm	0.00
Spiked Amount 50.000			Recovery = 23.46%			
73) 2,4,6-Tribromophenol	7.77	330	13879	9.19	ppm	0.00
Spiked Amount 50.000			Recovery = 18.38%			
85) Terphenyl-d14	11.75	244	129069	10.40	ppm	0.00
Spiked Amount 50.000			Recovery = 20.80%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.15	88	37024	11.52	ppm	88
3) Pyridine	2.47	79	92707	11.47	ppm	100
4) N-Nitrosodimethylamine	2.43	42	31171	10.16	ppm	83
6) Indene	4.79	116	119170	12.11	ppm	98
7) Cumene	4.00	105	179817	12.18	ppm	94
9) Phenol	4.34	94	112052	12.30	ppm	80
10) Aniline	4.35	93	130302	12.70	ppm	97
11) bis(2-Chloroethyl)ether	4.41	93	72590	11.62	ppm	96
12) 2-Chlorophenol	4.44	128	67688	11.38	ppm	92
13) Decane	4.48	43	74286	13.39	ppm	97
14) 1,3-Dichlorobenzene	4.56	146	67616	11.16	ppm	97
15) 1,4-Dichlorobenzene	4.61	146	68070	11.56	ppm	89

(#) = qualifier out of range (m) = manual integration
P105973.D MP4681.M Mon Jul 11 14:24:56 2016

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105973.D Vial: 7
Acq On : 11 Jul 2016 12:57 pm Operator: brittanp
Sample : ic4681-10 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:23:44 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:23:24 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16) Benzyl alcohol	4.70	108	46189	11.03	ppm		92
17) 1,2-Dichlorobenzene	4.72	146	62660	11.63	ppm		93
18) Acetophenone	4.89	105	96479	12.63	ppm	#	63
19) 2-Methylphenol	4.79	108	63445	12.17	ppm		97
20) 2,2'-oxybis(1-Chloropropan	4.80	121	20358	10.98	ppm	#	69
21) 3&4-Methylphenol	4.89	108	66758	12.24	ppm		93
22) n-Nitroso-di-n-propylamine	4.89	70	53795	13.62	ppm		98
23) Hexachloroethane	4.97	201	24339	10.15	ppm		97
26) Nitrobenzene	5.01	77	83531	12.05	ppm		95
27) Quinoline	5.77	129	124616	11.06	ppm		99
28) Isophorone	5.19	82	140652	11.75	ppm		97
29) 2-Nitrophenol	5.24	139	33756	10.80	ppm		81
30) 2,4-Dimethylphenol	5.27	107	70407	11.63	ppm		97
31) Benzoic acid	5.34	105	49526	9.40	ppm		95
32) bis(2-Chloroethoxy)methane	5.34	93	82239	11.99	ppm		96
33) 2,4-Dichlorophenol	5.42	162	51658	10.93	ppm		97
34) 2,6-Dichlorophenol	5.58	162	50818	11.17	ppm		97
35) 1,3,5-Trichlorobenzene	5.25	180	59845	11.42	ppm		96
36) 1,2,4-Trichlorobenzene	5.47	180	54805	11.05	ppm		96
37) 1,2,3-Trichlorobenzene	5.63	180	53925	11.16	ppm		97
38) Naphthalene	5.53	128	165967	12.07	ppm		95
39) 4-Chloroaniline	5.57	127	81818	11.95	ppm		93
40) 2,3-Dichloroaniline	6.24	161	63544	11.51	ppm		97
41) Caprolactam	5.81	55	41541	11.25	ppm		96
42) Hexachlorobutadiene	5.62	225	34572	10.62	ppm		96
43) 4-Chloro-3-methylphenol	5.92	107	59298	10.98	ppm		98
44) 2-Methylnaphthalene	6.02	141	100813	11.68	ppm		99
45) 1-Methylnaphthalene	6.10	142	113229	11.43	ppm		99
46) Dimethylnaphthalene	6.52	156	102226	11.40	ppm		99
48) Hexachlorocyclopentadiene	6.14	237	72560	19.06	ppm		100
49) 2,4,6-Trichlorophenol	6.24	196	40101	10.74	ppm		99
50) 2,4,5-Trichlorophenol	6.27	196	40538	10.32	ppm		93
52) 2-Chloronaphthalene	6.40	162	100410	11.35	ppm		97
53) Biphenyl	6.39	154	143443	11.64	ppm		96
54) 2-Nitroaniline	6.49	65	49925	10.80	ppm		87
55) Dimethylphthalate	6.64	163	115279	11.10	ppm		96
56) Acenaphthylene	6.77	152	177163	11.74	ppm		96
57) 2,6-Dinitrotoluene	6.70	165	25027	10.15	ppm		99
58) 3-Nitroaniline	6.86	138	34402	10.22	ppm		98
59) Acenaphthene	6.93	153	102873	11.13	ppm		98
60) 2,4-Dinitrophenol	6.96	184	24539	14.62	ppm		82
61) 4-Nitrophenol	7.03	109	21549	9.17	ppm		93
62) Dibenzofuran	7.10	168	169309	11.85	ppm		95
63) 2,4-Dinitrotoluene	7.09	165	35278	10.02	ppm		97
64) 2,3,4,6-Tetrachlorophenol	7.23	232	31474	9.15	ppm		94
65) Diethylphthalate	7.35	149	129385	10.81	ppm		97
66) Fluorene	7.48	166	129398	11.18	ppm		98
67) 4-Chlorophenyl-phenylether	7.48	204	62433	10.49	ppm		91
68) 4-Nitroaniline	7.50	138	35332	10.70	ppm		97

(#) = qualifier out of range (m) = manual integration
P105973.D MP4681.M Mon Jul 11 14:24:56 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105973.D Vial: 7
Acq On : 11 Jul 2016 12:57 pm Operator: brittanp
Sample : ic4681-10 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:23:44 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:23:24 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

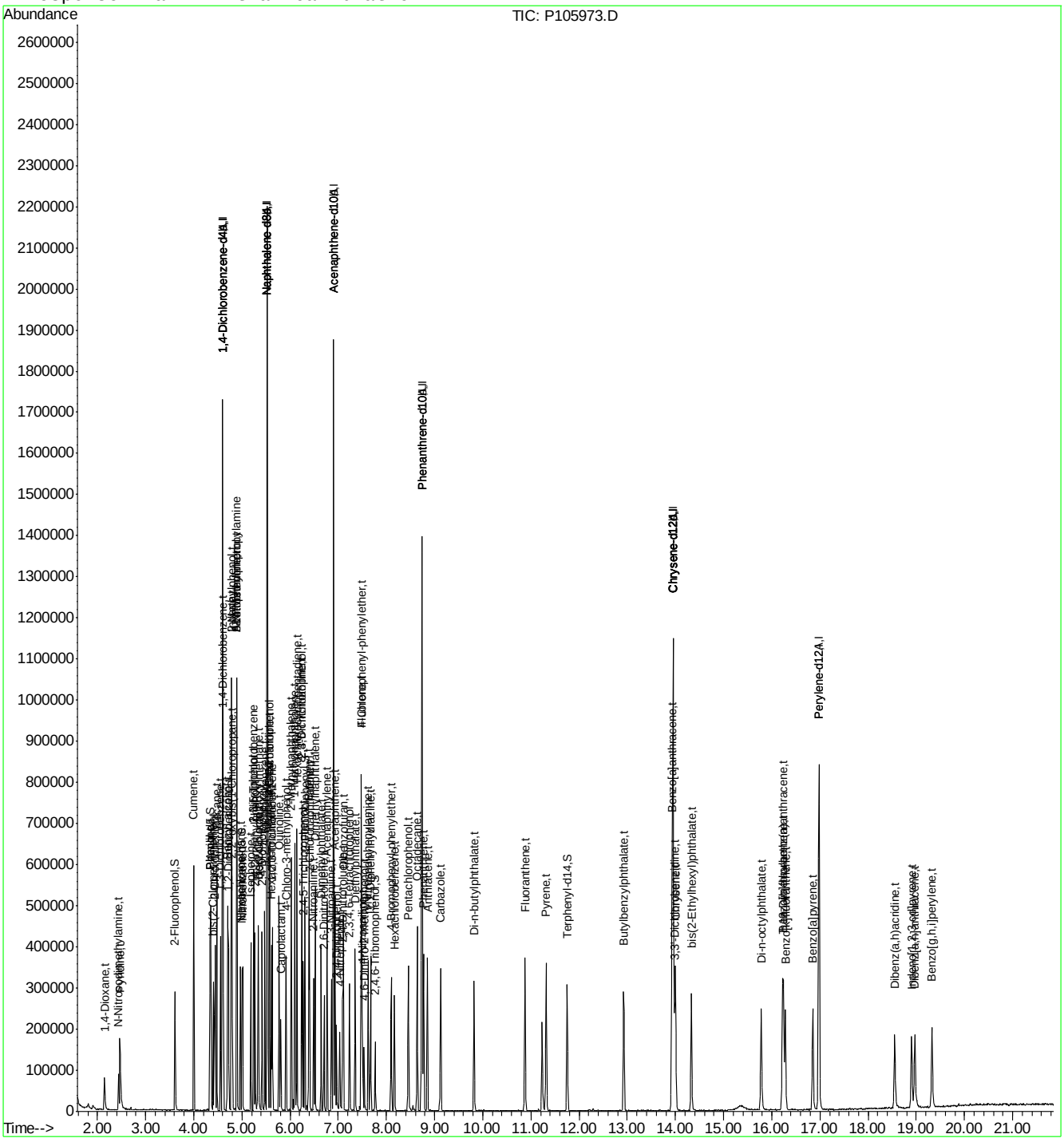
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.54	198	18308	7.95	ppm	88
71)	n-Nitrosodiphenylamine	7.62	169	85822	10.65	ppm	98
72)	1,2-Diphenylhydrazine	7.67	77	161522	11.86	ppm	93
74)	4-Bromophenyl-phenylether	8.10	248	36121	10.08	ppm	97
75)	Hexachlorobenzene	8.17	284	34647	9.76	ppm	95
76)	Pentachlorophenol	8.46	266	39197	16.71	ppm	97
77)	Phenanthrene	8.77	178	160265	10.82	ppm	97
78)	Anthracene	8.85	178	171268	11.23	ppm	95
79)	Carbazole	9.13	167	179194	11.14	ppm	95
80)	Di-n-butylphthalate	9.82	149	219830	10.76	ppm	96
81)	Fluoranthene	10.88	202	222434	10.81	ppm	97
82)	Octadecane	8.64	57	114272	11.91	ppm	94
84)	Pyrene	11.31	202	227562	11.18	ppm	96
86)	Butylbenzylphthalate	12.93	149	100160	10.21	ppm	97
87)	Benzo[a]anthracene	13.93	228	192749	10.64	ppm	98
88)	3,3'-Dichlorobenzidine	13.98	252	62761	9.69	ppm	99
89)	Chrysene	14.00	228	170500	10.66	ppm	98
90)	bis(2-Ethylhexyl)phthalate	14.33	149	120831	10.48	ppm	99
92)	Di-n-octylphthalate	15.78	149	213297	10.13	ppm	98
93)	Benzo[b]fluoranthene	16.22	252	178218	9.83	ppm	99
94)	Benzo[k]fluoranthene	16.28	252	157738	10.94	ppm	96
95)	Benzo[a]pyrene	16.85	252	156860	10.18	ppm	98
96)	Indeno[1,2,3-cd]pyrene	18.90	276	115963	9.87	ppm	95
97)	Dibenz(a,h)acridine	18.55	279	116348	9.72	ppm	94
98)	Dibenz[a,h]anthracene	18.97	278	113259	10.59	ppm	98
99)	7,12-Dimethylbenz(a)anthra	16.24	256	77850	9.68	ppm	93
100)	Benzo[g,h,i]perylene	19.33	276	131133	11.02	ppm	93

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105973.D Vial: 7
Acq On : 11 Jul 2016 12:57 pm Operator: brittanp
Sample : ic4681-10 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:24 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:23:24 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105974.D Vial: 8
Acq On : 11 Jul 2016 1:29 pm Operator: brittanp
Sample : ic4681-5 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:25:24 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:25:12 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	179313	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	571359	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	333358	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	598486	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	604447	40.00	ppm	-0.01
91) Perylene-d12	16.98	264	469835	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	179313	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	571359	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	333358	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	598486	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	604447	40.00	ppm	-0.01
154) Perylene-d12A	16.98	264	469835	40.00	ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	179313	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	598486	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	604447	40.00	ppm	-0.01
164) Naphthalene-d8b	5.52	136	571359	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	333358	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	571359	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	179313	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	604399	40.00	ppm	-0.01
177) Chrysene-d12d	13.95	240	604399	40.00	ppm	-0.01
179) Naphthalene-d8d	5.52	136	571359	40.00	ppm	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	3.61	112	30858	5.04	ppm	0.00
Spiked Amount 50.000			Recovery = 10.08%			
8) Phenol-d5	4.34	99	45698	5.45	ppm	0.00
Spiked Amount 50.000			Recovery = 10.90%			
25) Nitrobenzene-d5	5.00	82	40320	5.84	ppm	0.00
Spiked Amount 50.000			Recovery = 11.68%			
51) 2-Fluorobiphenyl	6.31	172	60279	5.95	ppm	0.00
Spiked Amount 50.000			Recovery = 11.90%			
73) 2,4,6-Tribromophenol	7.77	330	6637	4.81	ppm	0.00
Spiked Amount 50.000			Recovery = 9.62%			
85) Terphenyl-d14	11.75	244	61190	5.32	ppm	0.00
Spiked Amount 50.000			Recovery = 10.64%			

Target Compounds						Qvalue
2) 1,4-Dioxane	2.15	88	17743	5.56	ppm	96
3) Pyridine	2.47	79	44397	5.53	ppm	93
4) N-Nitrosodimethylamine	2.44	42	14857	5.00	ppm	97
6) Indene	4.79	116	59344	6.00	ppm	98
7) Cumene	4.00	105	88437	5.95	ppm	92
9) Phenol	4.34	94	55600	6.05	ppm	80
10) Aniline	4.35	93	66415	6.37	ppm	98
11) bis(2-Chloroethyl)ether	4.41	93	37023	5.95	ppm	98
12) 2-Chlorophenol	4.44	128	33661	5.71	ppm	95
13) Decane	4.48	43	38754	6.78	ppm	93
14) 1,3-Dichlorobenzene	4.56	146	32488	5.43	ppm	95
15) 1,4-Dichlorobenzene	4.61	146	31244	5.33	ppm	93

(#) = qualifier out of range (m) = manual integration
P105974.D MP4681.M Mon Jul 11 14:27:24 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105974.D Vial: 8
Acq On : 11 Jul 2016 1:29 pm Operator: brittanp
Sample : ic4681-5 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:25:24 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:25:12 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
16)	Benzyl alcohol	4.70	108	22511	5.46	ppm		94
17)	1,2-Dichlorobenzene	4.72	146	31903	5.94	ppm		90
18)	Acetophenone	4.89	105	46579	6.01	ppm	#	69
19)	2-Methylphenol	4.79	108	29729	5.67	ppm		92
20)	2,2'-oxybis(1-Chloropropan	4.80	121	10470	5.74	ppm		89
21)	3&4-Methylphenol	4.89	108	31557	5.74	ppm		87
22)	n-Nitroso-di-n-propylamine	4.89	70	27541	6.74	ppm		97
23)	Hexachloroethane	4.97	201	11975	5.16	ppm		88
26)	Nitrobenzene	5.01	77	40687	5.94	ppm		94
27)	Quinoline	5.77	129	63022	5.77	ppm		96
28)	Isophorone	5.18	82	70052	5.95	ppm		92
29)	2-Nitrophenol	5.24	139	16011	5.31	ppm		73
30)	2,4-Dimethylphenol	5.27	107	34895	5.88	ppm		98
31)	Benzoic acid	5.32	105	21562	4.36	ppm		97
32)	bis(2-Chloroethoxy)methane	5.34	93	41898	6.18	ppm		93
33)	2,4-Dichlorophenol	5.42	162	23898	5.23	ppm		94
34)	2,6-Dichlorophenol	5.58	162	24113	5.45	ppm		98
35)	1,3,5-Trichlorobenzene	5.25	180	29316	5.72	ppm		96
36)	1,2,4-Trichlorobenzene	5.47	180	27085	5.63	ppm		98
37)	1,2,3-Trichlorobenzene	5.63	180	25721	5.47	ppm		98
38)	Naphthalene	5.53	128	83842	6.16	ppm		95
39)	4-Chloroaniline	5.57	127	40308	5.97	ppm		97
40)	2,3-Dichloroaniline	6.24	161	29060	5.38	ppm		91
41)	Caprolactam	5.80	55	20445	5.69	ppm		98
42)	Hexachlorobutadiene	5.61	225	16065	5.13	ppm		95
43)	4-Chloro-3-methylphenol	5.91	107	28620	5.47	ppm		94
44)	2-Methylnaphthalene	6.02	141	48166	5.68	ppm		98
45)	1-Methylnaphthalene	6.10	142	56848	5.87	ppm		95
46)	Dimethylnaphthalene	6.52	156	49770	5.68	ppm		96
48)	Hexachlorocyclopentadiene	6.14	237	30600	8.71	ppm		99
49)	2,4,6-Trichlorophenol	6.24	196	19433	5.50	ppm		94
50)	2,4,5-Trichlorophenol	6.27	196	20121	5.46	ppm		92
52)	2-Chloronaphthalene	6.40	162	50460	5.96	ppm		94
53)	Biphenyl	6.39	154	70450	5.94	ppm		96
54)	2-Nitroaniline	6.49	65	24797	5.67	ppm		85
55)	Dimethylphthalate	6.64	163	55930	5.65	ppm		97
56)	Acenaphthylene	6.77	152	88491	6.08	ppm		96
57)	2,6-Dinitrotoluene	6.70	165	11174	4.85	ppm		97
58)	3-Nitroaniline	6.86	138	17439	5.54	ppm		99
59)	Acenaphthene	6.93	153	49687	5.64	ppm		95
60)	2,4-Dinitrophenol	6.96	184	8118	5.49	ppm		89
61)	4-Nitrophenol	7.03	109	10711	4.98	ppm		95
62)	Dibenzofuran	7.10	168	82301	5.96	ppm		95
63)	2,4-Dinitrotoluene	7.09	165	16478	5.02	ppm		92
64)	2,3,4,6-Tetrachlorophenol	7.23	232	14922	4.74	ppm		95
65)	Diethylphthalate	7.35	149	64683	5.71	ppm		97
66)	Fluorene	7.48	166	64223	5.82	ppm		96
67)	4-Chlorophenyl-phenylether	7.48	204	30347	5.42	ppm		98
68)	4-Nitroaniline	7.50	138	16749	5.37	ppm		91

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105974.D Vial: 8
Acq On : 11 Jul 2016 1:29 pm Operator: brittanp
Sample : ic4681-5 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:25:24 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:25:12 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
70)	4,6-Dinitro-2-methylphenol	7.54	198	7717	3.76	ppm	96
71)	n-Nitrosodiphenylamine	7.62	169	41819	5.51	ppm	97
72)	1,2-Diphenylhydrazine	7.67	77	81769	6.23	ppm	94
74)	4-Bromophenyl-phenylether	8.10	248	17799	5.33	ppm	88
75)	Hexachlorobenzene	8.17	284	18781	5.72	ppm	96
76)	Pentachlorophenol	8.46	266	15908	7.54	ppm	95
77)	Phenanthrene	8.77	178	80344	5.74	ppm	95
78)	Anthracene	8.85	178	81015	5.58	ppm	98
79)	Carbazole	9.12	167	84749	5.54	ppm	95
80)	Di-n-butylphthalate	9.82	149	104045	5.39	ppm	100
81)	Fluoranthene	10.88	202	107918	5.55	ppm	96
82)	Octadecane	8.64	57	56667	6.12	ppm	92
84)	Pyrene	11.31	202	113300	5.92	ppm	99
86)	Butylbenzylphthalate	12.93	149	46982	5.19	ppm	92
87)	Benzo[a]anthracene	13.93	228	89919	5.33	ppm	99
88)	3,3'-Dichlorobenzidine	13.98	252	28137	4.75	ppm	98
89)	Chrysene	14.00	228	82601	5.54	ppm	96
90)	bis(2-Ethylhexyl)phthalate	14.33	149	57532	5.38	ppm	99
92)	Di-n-octylphthalate	15.78	149	97454	4.87	ppm	99
93)	Benzo[b]fluoranthene	16.22	252	85885	5.01	ppm	96
94)	Benzo[k]fluoranthene	16.28	252	79285	5.69	ppm	95
95)	Benzo[a]pyrene	16.85	252	74205	5.06	ppm	98
96)	Indeno[1,2,3-cd]pyrene	18.90	276	55601	5.00	ppm	91
97)	Dibenz(a,h)acridine	18.55	279	53978	4.78	ppm	92
98)	Dibenz[a,h]anthracene	18.97	278	57281	5.58	ppm	98
99)	7,12-Dimethylbenz(a)anthra	16.24	256	38533	5.08	ppm	96
100)	Benzo[g,h,i]perylene	19.32	276	62145	5.39	ppm	91

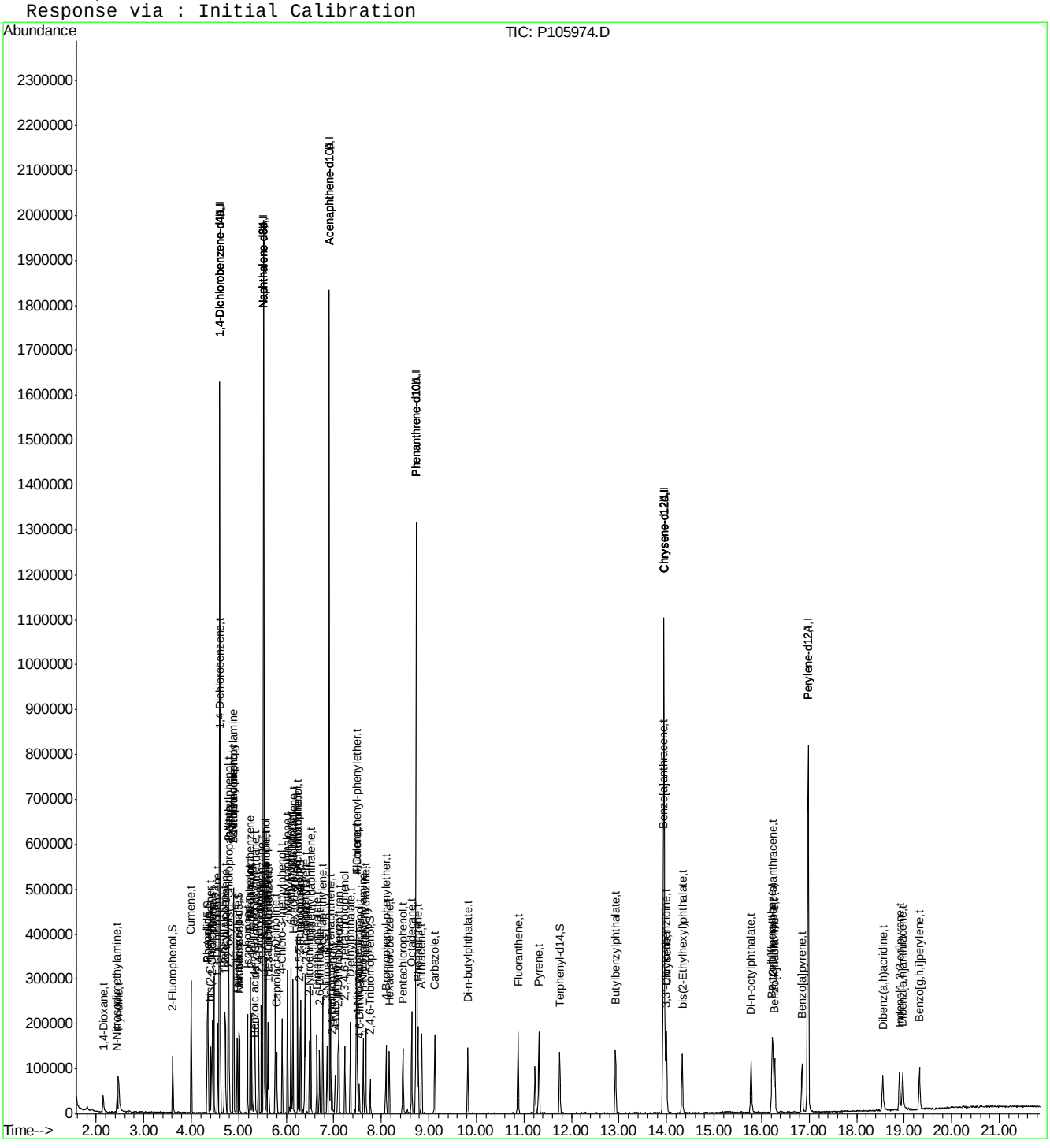
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4681\P105974.D Vial: 8
Acq On : 11 Jul 2016 1:29 pm Operator: brittanp
Sample : ic4681-5 Inst : MSP
Misc : op93881,ep4681 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 11 14:27 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Mon Jul 11 14:25:12 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105978.D Vial: 2
Acq On : 11 Jul 2016 3:49 pm Operator: brittanp
Sample : ic4682-100 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:21:40 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	225846	40.00 ppm	0.00
24) Naphthalene-d8	5.52	136	734340	40.00 ppm	0.00
47) Acenaphthene-d10	6.90	164	427176	40.00 ppm	0.00
69) Phenanthrene-d10	8.74	188	732633	40.00 ppm	0.00
83) Chrysene-d12	13.95	240	682033	40.00 ppm	0.00
91) Perylene-d12	16.98	264	538918	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	225846	40.00 ppm	0.00
111) Naphthalene-d8A	5.52	136	734340	40.00 ppm	0.00
120) Acenaphthene-d10A	6.90	164	427176	40.00 ppm	0.00
131) Phenanthrene-d10A	8.74	188	732633	40.00 ppm	0.00
146) Chrysene-d12A	13.95	240	682033	40.00 ppm	0.00
154) Perylene-d12A	16.98	264	538918	40.00 ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	225846	40.00 ppm	0.00
160) Phenanthrene-d10b	8.74	188	732633	40.00 ppm	0.00
162) Chrysene-d12b	13.95	240	682033	40.00 ppm	0.00
164) Naphthalene-d8b	5.52	136	734340	40.00 ppm	0.00
166) Acenaphthene-d10b	6.90	164	427176	40.00 ppm	0.00
168) Naphthalene-d8c	5.52	136	734340	40.00 ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	225846	40.00 ppm	-0.01
175) Chrysene-d12c	13.95	240	682033	40.00 ppm	0.00
177) Chrysene-d12d	13.95	240	682033	40.00 ppm	0.00
179) Naphthalene-d8d	5.52	136	734340	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	0	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
159) Benzaldehyde	4.28	105	354431	61.00 ppm	84
161) Atrazine	8.36	200	337123	94.15 ppm	86
163) Benzidine	11.24	184	542374	66.33 ppm	100
165) Hydroquinone	5.82	110	661905	86.45 ppm	68
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	586407	89.20 ppm	96

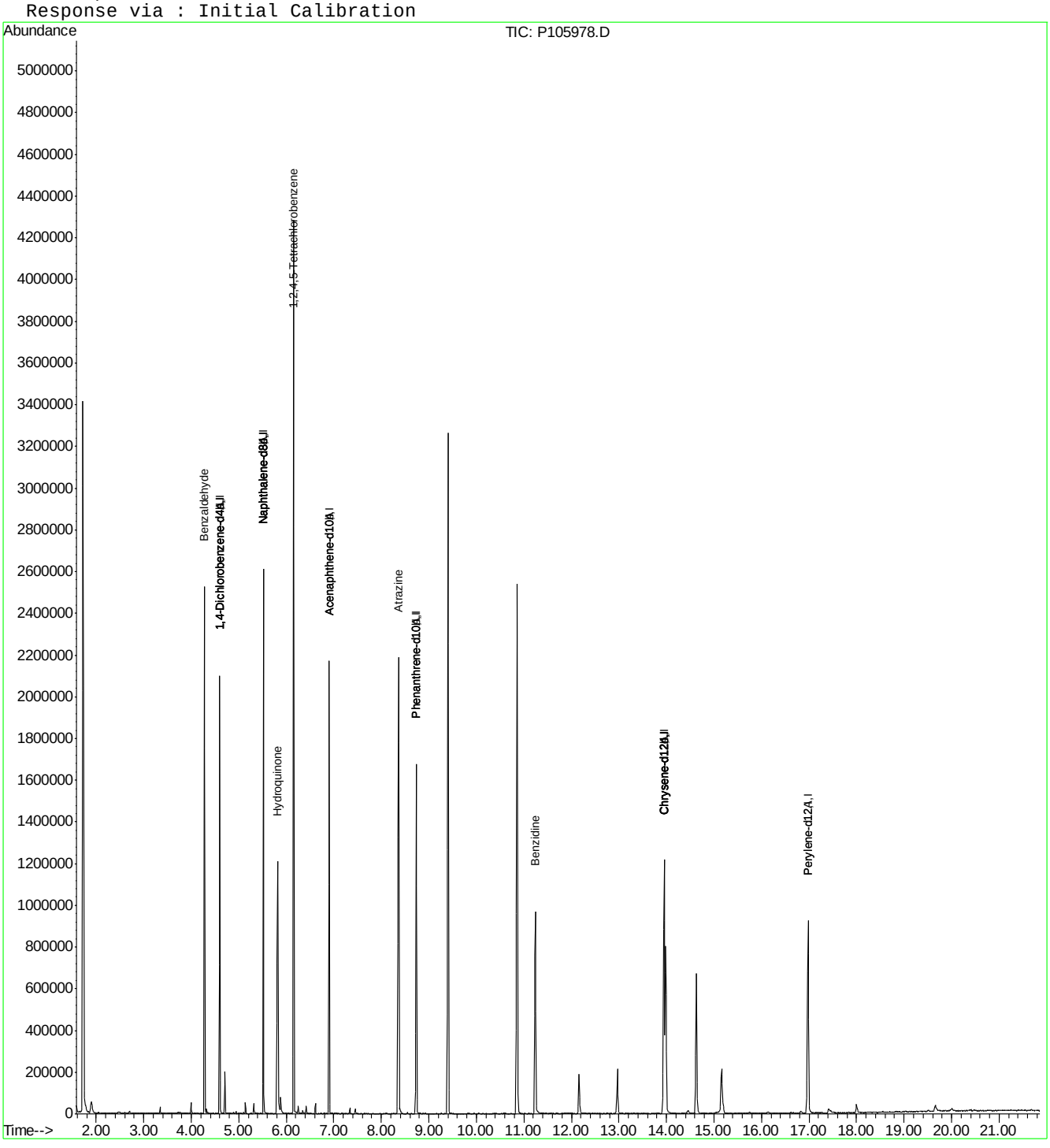
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105978.D Vial: 2
Acq On : 11 Jul 2016 3:49 pm Operator: brittanp
Sample : ic4682-100 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:22 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105979.D Vial: 3
Acq On : 11 Jul 2016 4:22 pm Operator: brittanp
Sample : ic4682-80 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:22:19 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	209417	40.00 ppm	0.00
24) Naphthalene-d8	5.52	136	686573	40.00 ppm	0.00
47) Acenaphthene-d10	6.90	164	403327	40.00 ppm	0.00
69) Phenanthrene-d10	8.73	188	705174	40.00 ppm	0.00
83) Chrysene-d12	13.95	240	679064	40.00 ppm	-0.01
91) Perylene-d12	16.98	264	544024	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4A	4.60	152	209417	40.00 ppm	0.00
111) Naphthalene-d8A	5.52	136	686573	40.00 ppm	0.00
120) Acenaphthene-d10A	6.90	164	403327	40.00 ppm	0.00
131) Phenanthrene-d10A	8.73	188	705174	40.00 ppm	0.00
146) Chrysene-d12A	13.95	240	679064	40.00 ppm	-0.01
154) Perylene-d12A	16.98	264	544024	40.00 ppm	0.00
158) 1,4-Dichlorobenzene-d4b	4.60	152	209417	40.00 ppm	0.00
160) Phenanthrene-d10b	8.73	188	705174	40.00 ppm	0.00
162) Chrysene-d12b	13.95	240	679064	40.00 ppm	0.00
164) Naphthalene-d8b	5.52	136	686573	40.00 ppm	0.00
166) Acenaphthene-d10b	6.90	164	403327	40.00 ppm	0.00
168) Naphthalene-d8c	5.52	136	686573	40.00 ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	209417	40.00 ppm	-0.01
175) Chrysene-d12c	13.95	240	679064	40.00 ppm	-0.01
177) Chrysene-d12d	13.95	240	679064	40.00 ppm	-0.01
179) Naphthalene-d8d	5.52	136	686573	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	0	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
159) Benzaldehyde	4.28	105	295486	54.84 ppm	85
161) Atrazine	8.36	200	261778	75.96 ppm	84
163) Benzidine	11.24	184	479322	58.88 ppm	100
165) Hydroquinone	5.82	110	493394	68.92 ppm	66
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	446876	71.99 ppm	97

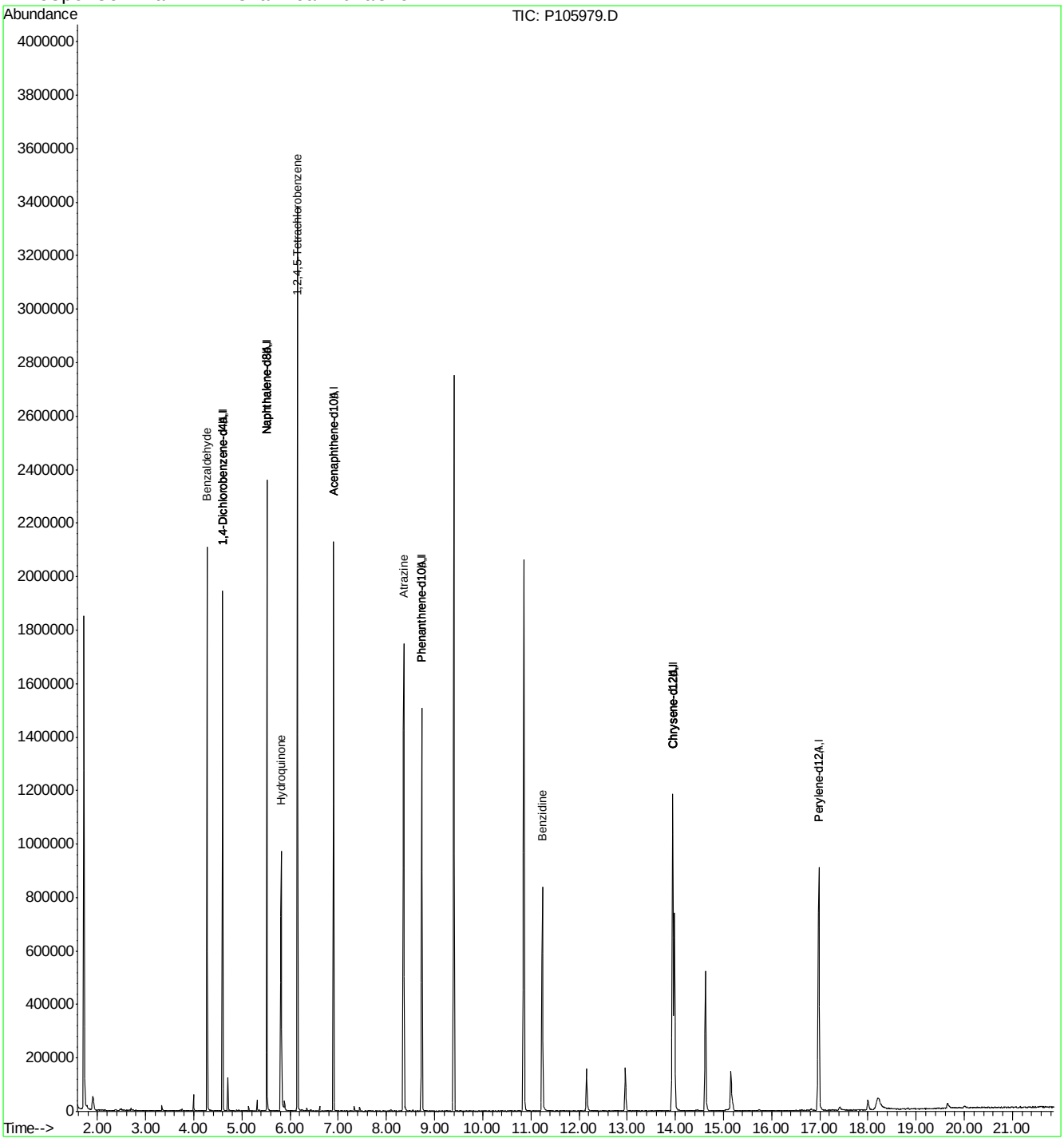
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105979.D Vial: 3
Acq On : 11 Jul 2016 4:22 pm Operator: brittanp
Sample : ic4682-80 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:22 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105980.D Vial: 4
Acq On : 11 Jul 2016 4:51 pm Operator: brittanp
Sample : icc4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:14:58 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:14:40 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	182354	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	616979	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	360349	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	667685	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	643034	40.00	ppm	-0.01
91) Perylene-d12	16.98	264	527742	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	182354	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	616979	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	360349	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	667685	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	643034	40.00	ppm	-0.01
154) Perylene-d12A	16.98	264	527742	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	182354	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	667685	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	643034	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	616979	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	360349	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	616979	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	182354	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	643034	40.00	ppm	-0.01
177) Chrysene-d12d	13.95	240	643034	40.00	ppm	-0.01
179) Naphthalene-d8d	5.52	136	616979	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	0	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
159) Benzaldehyde	4.28	105	234576	50.00	ppm	85
161) Atrazine	8.35	200	163159	50.00	ppm	76
163) Benzidine	11.23	184	385447	50.00	ppm	99
165) Hydroquinone	5.81	110	321655	50.00	ppm	71
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	277295	50.00	ppm	98

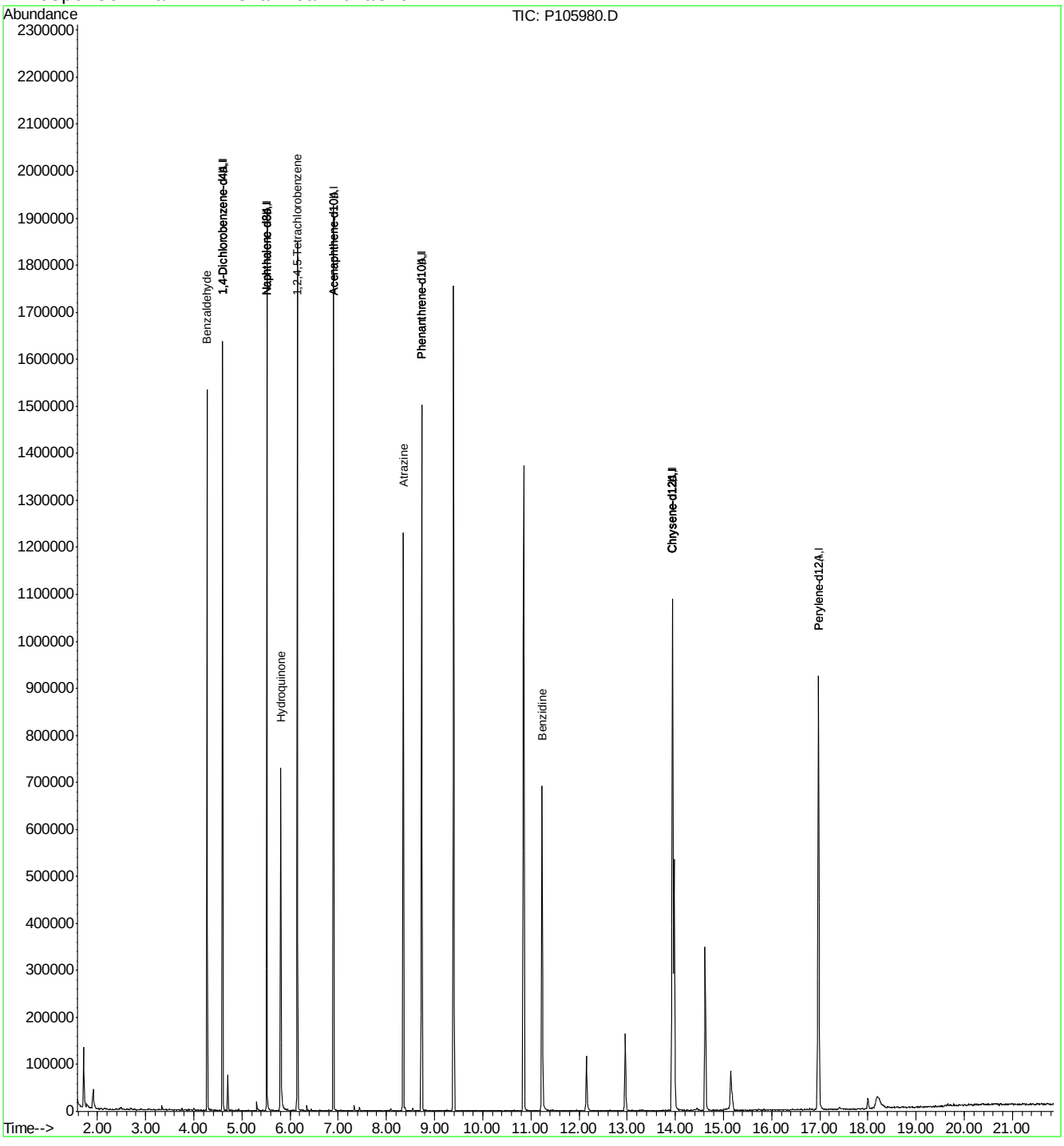
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105980.D Vial: 4
Acq On : 11 Jul 2016 4:51 pm Operator: brittanp
Sample : icc4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:15 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:14:40 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105981.D Vial: 5
Acq On : 11 Jul 2016 5:20 pm Operator: brittanp
Sample : ic4682-25 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:15:41 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	214359	40.00 ppm	0.00
24) Naphthalene-d8	5.52	136	693945	40.00 ppm	0.00
47) Acenaphthene-d10	6.90	164	414579	40.00 ppm	0.00
69) Phenanthrene-d10	8.73	188	741521	40.00 ppm	0.00
83) Chrysene-d12	13.94	240	719192	40.00 ppm	-0.02
91) Perylene-d12	16.98	264	591119	40.00 ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	214359	40.00 ppm	0.00
111) Naphthalene-d8A	5.52	136	693945	40.00 ppm	0.00
120) Acenaphthene-d10A	6.90	164	414579	40.00 ppm	0.00
131) Phenanthrene-d10A	8.73	188	741521	40.00 ppm	0.00
146) Chrysene-d12A	13.94	240	719192	40.00 ppm	-0.02
154) Perylene-d12A	16.98	264	591119	40.00 ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	214359	40.00 ppm	0.00
160) Phenanthrene-d10b	8.73	188	741521	40.00 ppm	0.00
162) Chrysene-d12b	13.94	240	719192	40.00 ppm	0.00
164) Naphthalene-d8b	5.52	136	693945	40.00 ppm	0.00
166) Acenaphthene-d10b	6.90	164	414579	40.00 ppm	0.00
168) Naphthalene-d8c	5.52	136	693945	40.00 ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	214359	40.00 ppm	-0.01
175) Chrysene-d12c	13.94	240	719192	40.00 ppm	-0.02
177) Chrysene-d12d	13.94	240	719192	40.00 ppm	-0.02
179) Naphthalene-d8d	5.52	136	693945	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	0	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
159) Benzaldehyde	4.27	105	141072	25.58 ppm #	81
161) Atrazine	8.35	200	88084	24.31 ppm	78
163) Benzidine	11.23	184	273380	31.71 ppm	99
165) Hydroquinone	5.80	110	158719	21.94 ppm	65
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	157429	24.67 ppm	97

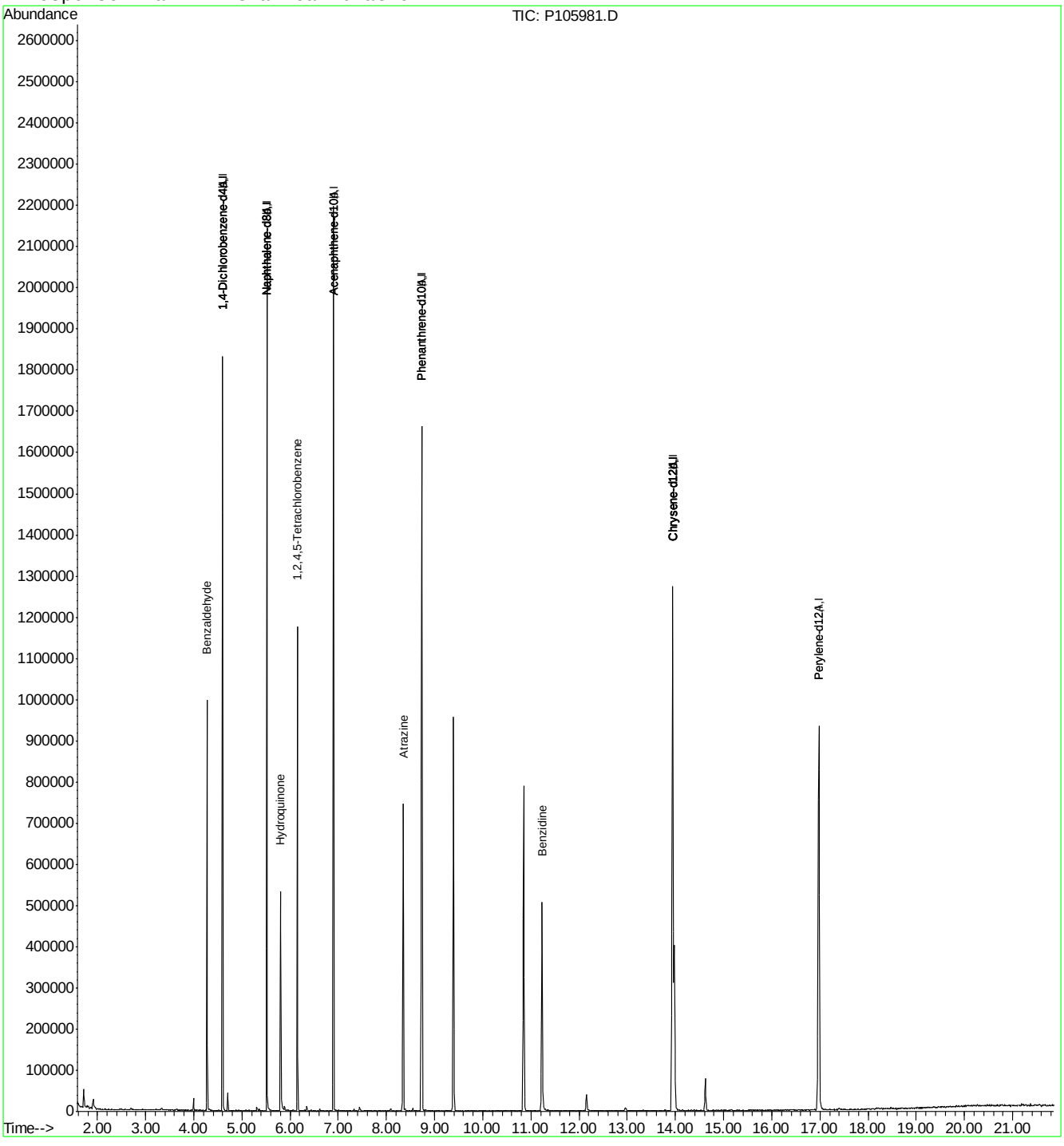
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105981.D Vial: 5
Acq On : 11 Jul 2016 5:20 pm Operator: brittanp
Sample : ic4682-25 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:15 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105982.D Vial: 6
Acq On : 11 Jul 2016 5:49 pm Operator: brittanp
Sample : ic4682-10 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:16:20 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	224284	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	728659	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	431121	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	768763	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	750603	40.00	ppm	-0.01
91) Perylene-d12	16.98	264	613162	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	224284	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	728659	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	431121	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	768763	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	750603	40.00	ppm	-0.01
154) Perylene-d12A	16.98	264	613162	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	224284	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	768763	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	750603	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	728659	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	431121	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	728659	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	224284	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	750603	40.00	ppm	-0.01
177) Chrysene-d12d	13.95	240	750603	40.00	ppm	-0.01
179) Naphthalene-d8d	5.52	136	728659	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	0	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
159) Benzaldehyde	4.27	105	65664	11.38	ppm #	79
161) Atrazine	8.34	200	37378	9.95	ppm	67
163) Benzidine	11.23	184	131364	14.60	ppm	99
165) Hydroquinone	5.80	110	64339	8.47	ppm	76
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	68808	10.37	ppm	93

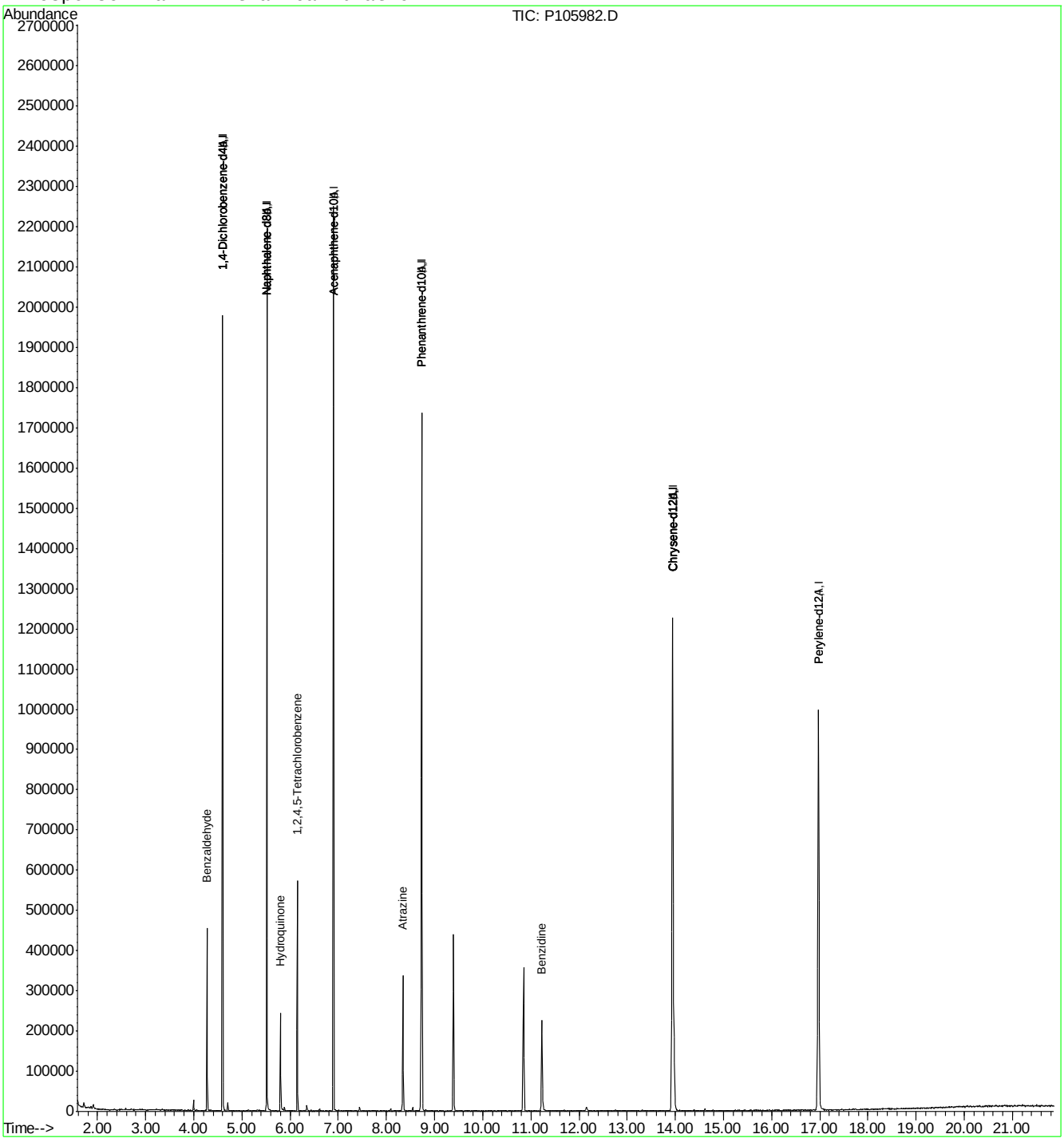
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105982.D Vial: 6
Acq On : 11 Jul 2016 5:49 pm Operator: brittanp
Sample : ic4682-10 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:16 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105983.D Vial: 7
Acq On : 11 Jul 2016 6:18 pm Operator: brittanp
Sample : ic4682-5 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:17:00 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	219612	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	715469	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	441496	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	780970	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	763491	40.00	ppm	-0.02
91) Perylene-d12	16.98	264	623020	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	219612	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	715469	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	441496	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	780970	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	763491	40.00	ppm	-0.02
154) Perylene-d12A	16.98	264	623020	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	219612	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	780970	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	763491	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	715469	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	441496	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	715469	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	219612	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	763491	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	763491	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	715469	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	0	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
159) Benzaldehyde	4.27	105	29371	5.20	ppm #	76
161) Atrazine	8.34	200	16901	4.43	ppm	74
163) Benzidine	11.23	184	53682	5.86	ppm	97
165) Hydroquinone	5.80	110	27851	3.73	ppm	79
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	33282	4.90	ppm	98

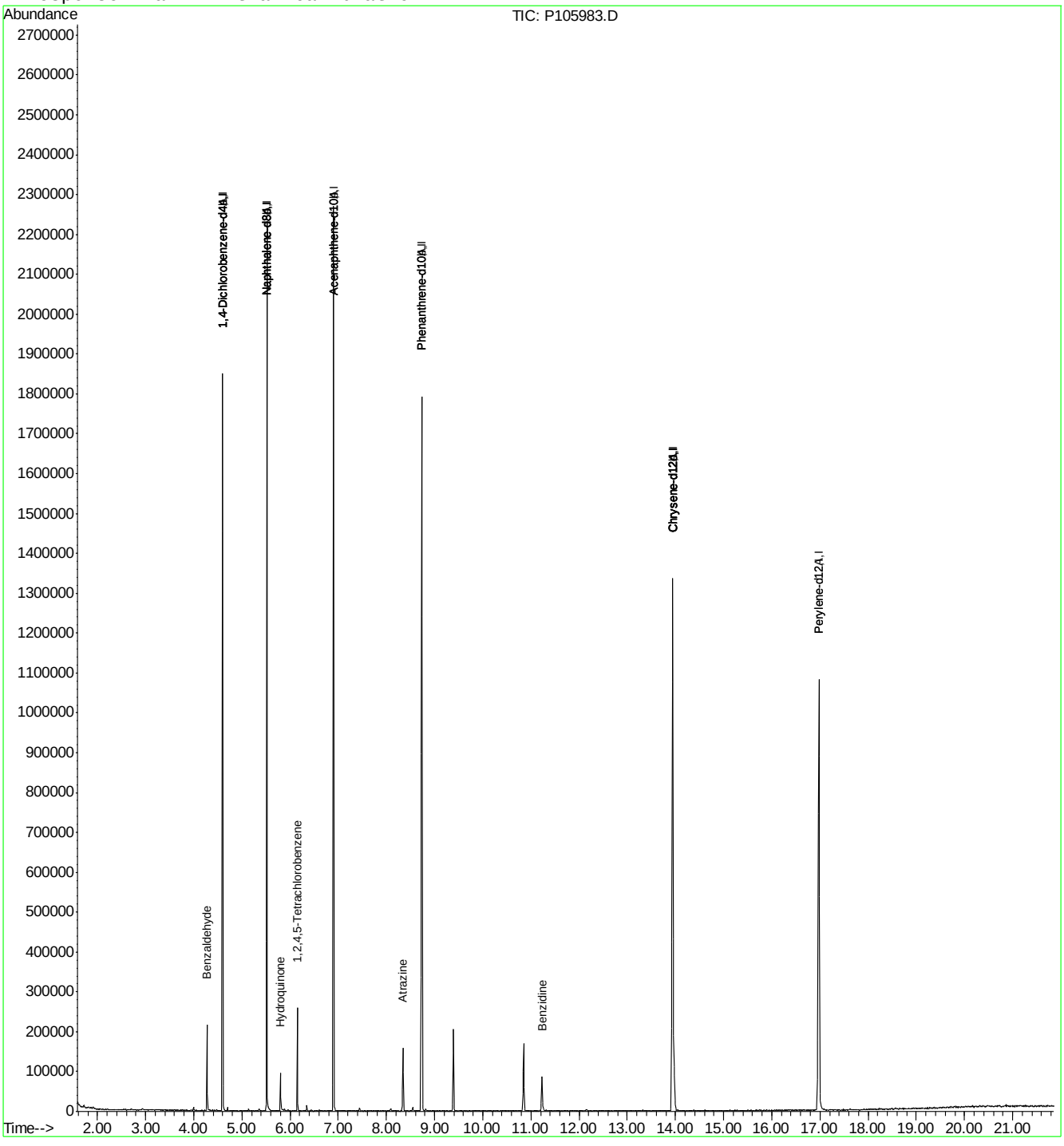
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105983.D Vial: 7
Acq On : 11 Jul 2016 6:18 pm Operator: brittanp
Sample : ic4682-5 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:19 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



P105983.D MP4681.M Tue Jul 12 13:19:33 2016 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105984.D Vial: 8
Acq On : 11 Jul 2016 6:47 pm Operator: brittanp
Sample : ic4682-2 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:19:42 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	216513	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	703436	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	414686	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	747041	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	727742	40.00	ppm	-0.02
91) Perylene-d12	16.98	264	580306	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	216513	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	703436	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	414686	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	747041	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	727742	40.00	ppm	-0.02
154) Perylene-d12A	16.98	264	580306	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	216513	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	747041	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	727742	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	703436	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	414686	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	703436	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	216513	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	727742	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	727742	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	703436	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	0	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
159) Benzaldehyde	4.28	105	11551	2.07	ppm		83
161) Atrazine	8.34	200	6567	1.80	ppm		83
163) Benzidine	11.23	184	17878	2.05	ppm	#	68
165) Hydroquinone	5.80	110	9742	1.33	ppm		70
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	12348	1.93	ppm		90

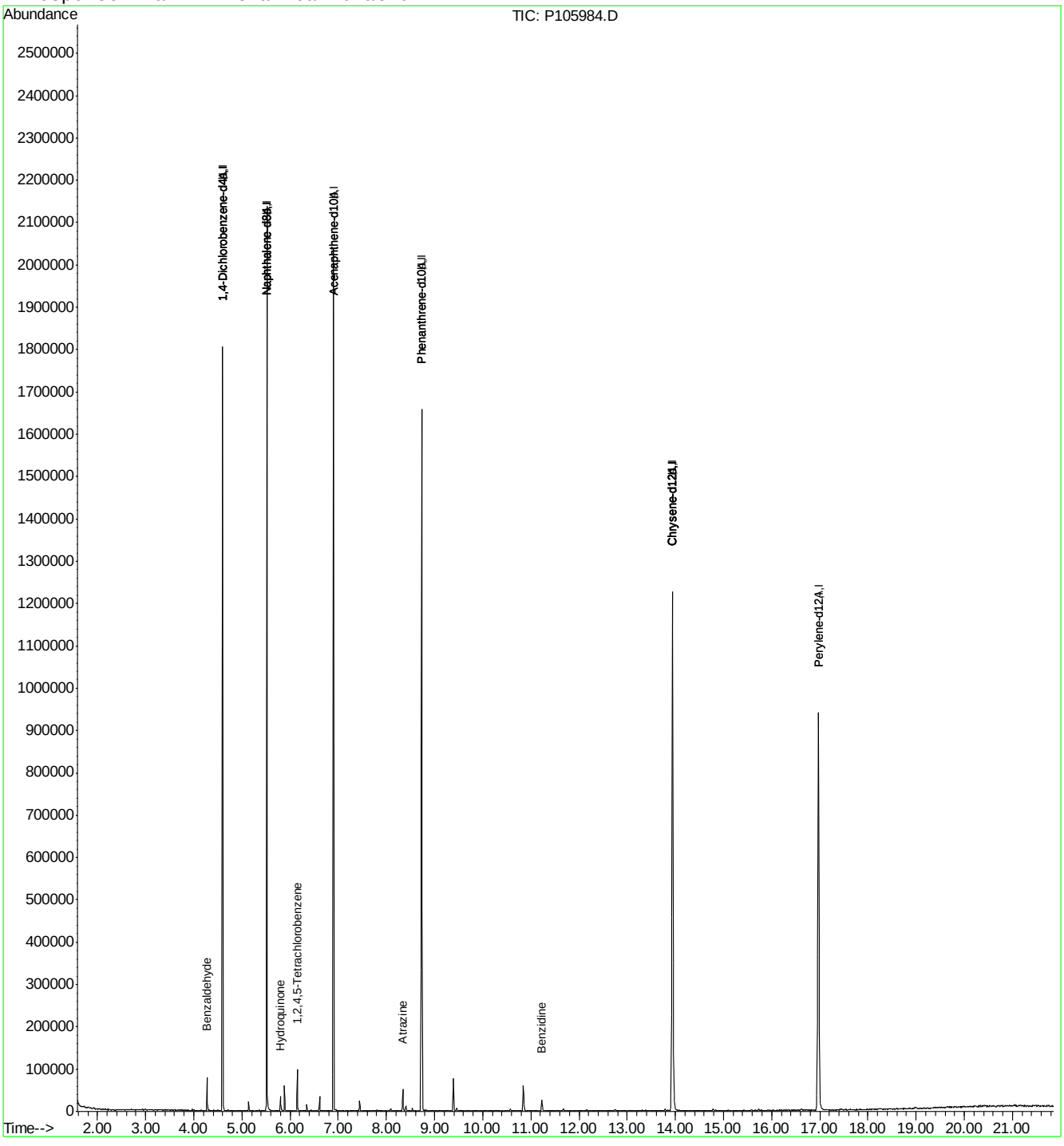
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105984.D Vial: 8
Acq On : 11 Jul 2016 6:47 pm Operator: brittanp
Sample : ic4682-2 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:20 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105985.D Vial: 9
Acq On : 11 Jul 2016 7:16 pm Operator: brittanp
Sample : ic4682-1 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:20:44 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	218720	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	716330	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	425756	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	754402	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	737136	40.00	ppm	-0.02
91) Perylene-d12	16.98	264	594952	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	218720	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	716330	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	425756	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	754402	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	737136	40.00	ppm	-0.02
154) Perylene-d12A	16.98	264	594952	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	218720	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	754402	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	737136	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	716330	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	425756	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	716330	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	218720	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	737136	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	737136	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	716330	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	0	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
159) Benzaldehyde	4.28	105	5993	1.07	ppm		79
161) Atrazine	8.34	200	2862	0.78	ppm	#	39
163) Benzidine	11.23	184	8855	1.00	ppm	#	68
165) Hydroquinone	5.80	110	4519	0.61	ppm		55
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	6618	1.01	ppm		94

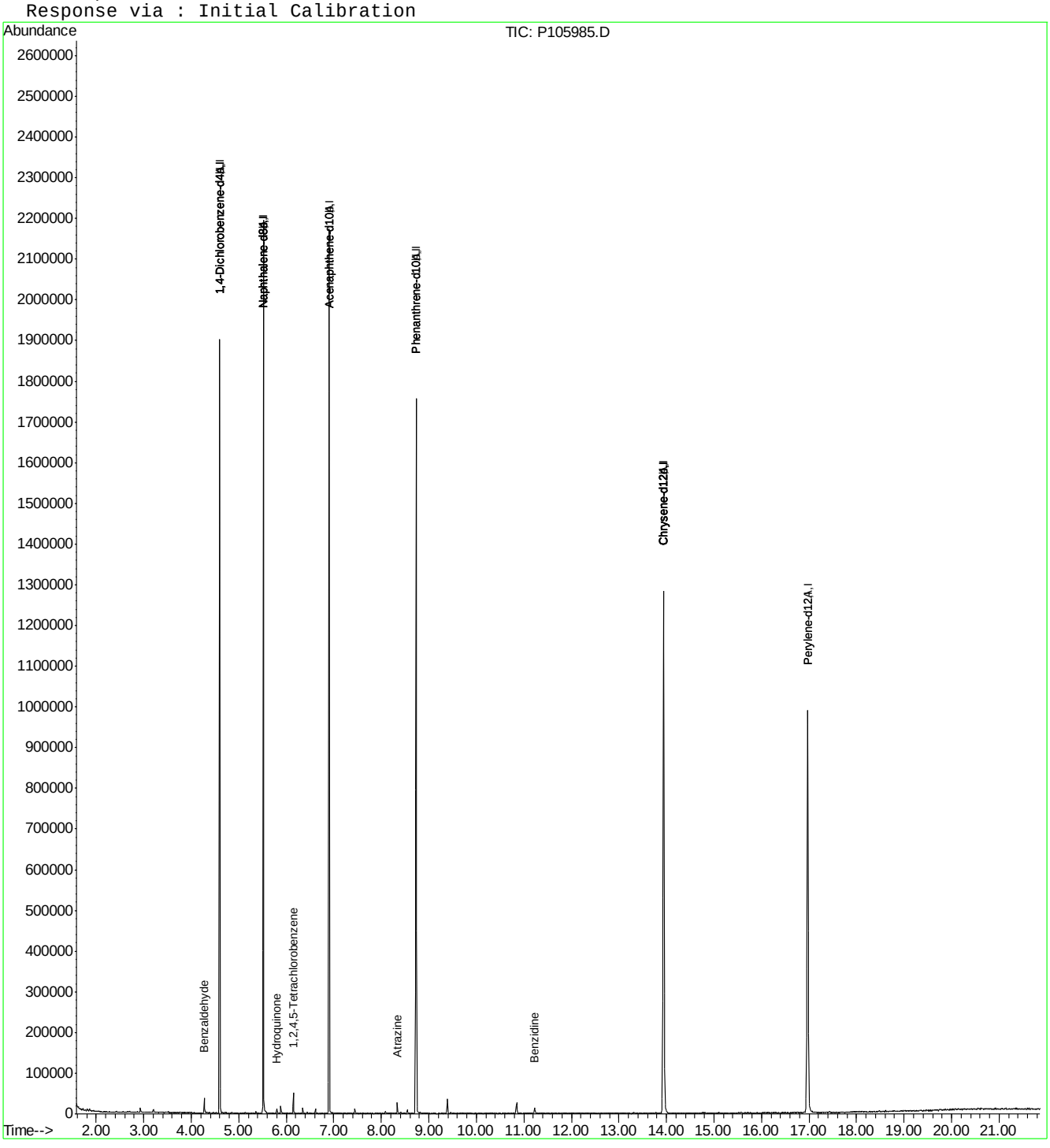
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105985.D Vial: 9
Acq On : 11 Jul 2016 7:16 pm Operator: brittanp
Sample : ic4682-1 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:21 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:15:36 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105986.D Vial: 10
Acq On : 11 Jul 2016 7:46 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:35:41 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	226615	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	675284	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	431603	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	733517	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	680895	40.00	ppm	-0.02
91) Perylene-d12	16.97	264	520803	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4A	4.60	152	226615	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	675284	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	431603	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	733517	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	680895	40.00	ppm	-0.02
154) Perylene-d12A	16.97	264	520803	40.00	ppm	-0.02
158) 1,4-Dichlorobenzene-d4b	4.60	152	226615	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	733517	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	680895	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	675284	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	431603	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	675284	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	226615	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	680895	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	680895	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	675284	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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	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	4.35	94	458868	36.25	ppm	75
12) 2-Chlorophenol	4.44	128	314868	40.40	ppm	99
19) 2-Methylphenol	4.79	108	295778	42.71	ppm	99
21) 3&4-Methylphenol	4.89	108	303082	40.52	ppm	98
29) 2-Nitrophenol	5.24	139	164958	46.39	ppm	79
30) 2,4-Dimethylphenol	5.27	107	316819	43.23	ppm	99
31) Benzoic acid	5.37	105	238805	44.22	ppm	96
33) 2,4-Dichlorophenol	5.42	162	234242	42.48	ppm	100
34) 2,6-Dichlorophenol	5.58	162	230473	42.99	ppm	99
43) 4-Chloro-3-methylphenol	5.91	107	267453	42.78	ppm	100
49) 2,4,6-Trichlorophenol	6.24	196	189370	40.52	ppm	98
50) 2,4,5-Trichlorophenol	6.27	196	179260	36.42	ppm	99

(#) = qualifier out of range (m) = manual integration
P105986.D MP4681.M Tue Jul 12 13:45:57 2016

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105986.D Vial: 10
Acq On : 11 Jul 2016 7:46 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:35:41 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
60)	2,4-Dinitrophenol	6.96	184	67141	37.25	ppm	#	96
61)	4-Nitrophenol	7.03	109	104194	39.85	ppm		95
64)	2,3,4,6-Tetrachlorophenol	7.23	232	151400	38.68	ppm		97
70)	4,6-Dinitro-2-methylphenol	7.54	198	101031	41.87	ppm		97
76)	Pentachlorophenol	8.45	266	101218	43.15	ppm		96

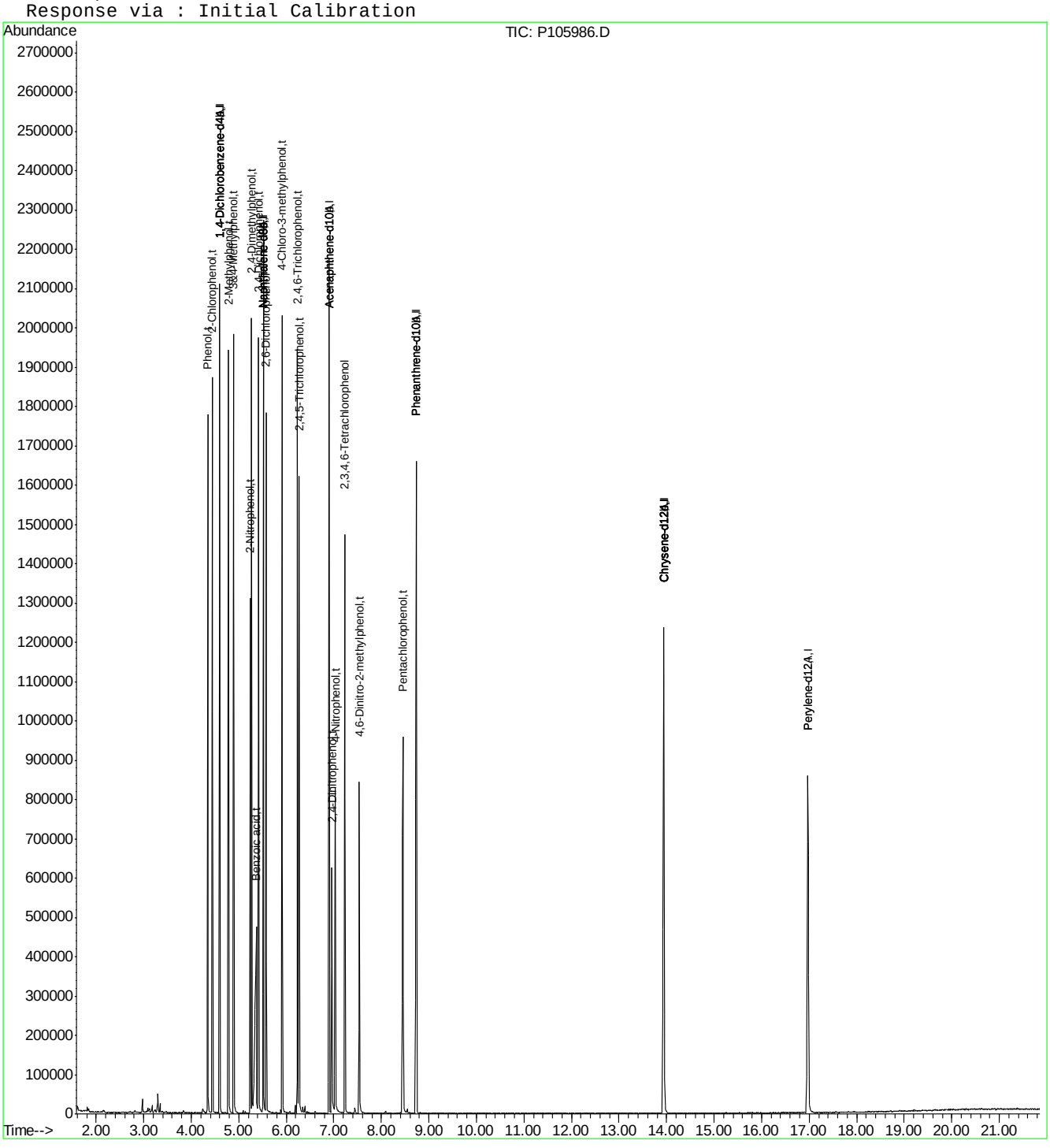
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105986.D Vial: 10
Acq On : 11 Jul 2016 7:46 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:36 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105987.D Vial: 11
Acq On : 11 Jul 2016 8:15 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:37:25 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	188706	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	672002	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	369475	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	713186	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	663589	40.00	ppm	-0.02
91) Perylene-d12	16.97	264	484526	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4A	4.60	152	188706	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	672002	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	369475	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	713186	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	663589	40.00	ppm	-0.02
154) Perylene-d12A	16.97	264	484526	40.00	ppm	-0.02
158) 1,4-Dichlorobenzene-d4b	4.60	152	188706	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	713186	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	663589	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	672002	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	369475	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	672002	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	188706	40.00	ppm	0.00
175) Chrysene-d12c	13.94	240	663589	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	663589	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	672002	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	0	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	2.57	79	431126	52.18	ppm	94
10) Aniline	4.37	93	581579	47.94	ppm	87
16) Benzyl alcohol	4.70	108	228342	50.29	ppm	99
39) 4-Chloroaniline	5.57	127	364146	43.60	ppm	97
44) 2-Methylnaphthalene	6.02	141	445503	42.76	ppm	97
54) 2-Nitroaniline	6.49	65	229168	45.04	ppm	98
58) 3-Nitroaniline	6.86	138	169723	48.72	ppm	92
62) Dibenzofuran	7.10	168	777188	47.34	ppm	100
68) 4-Nitroaniline	7.50	138	162677	46.70	ppm	98
79) Carbazole	9.13	167	857563	45.33	ppm	99

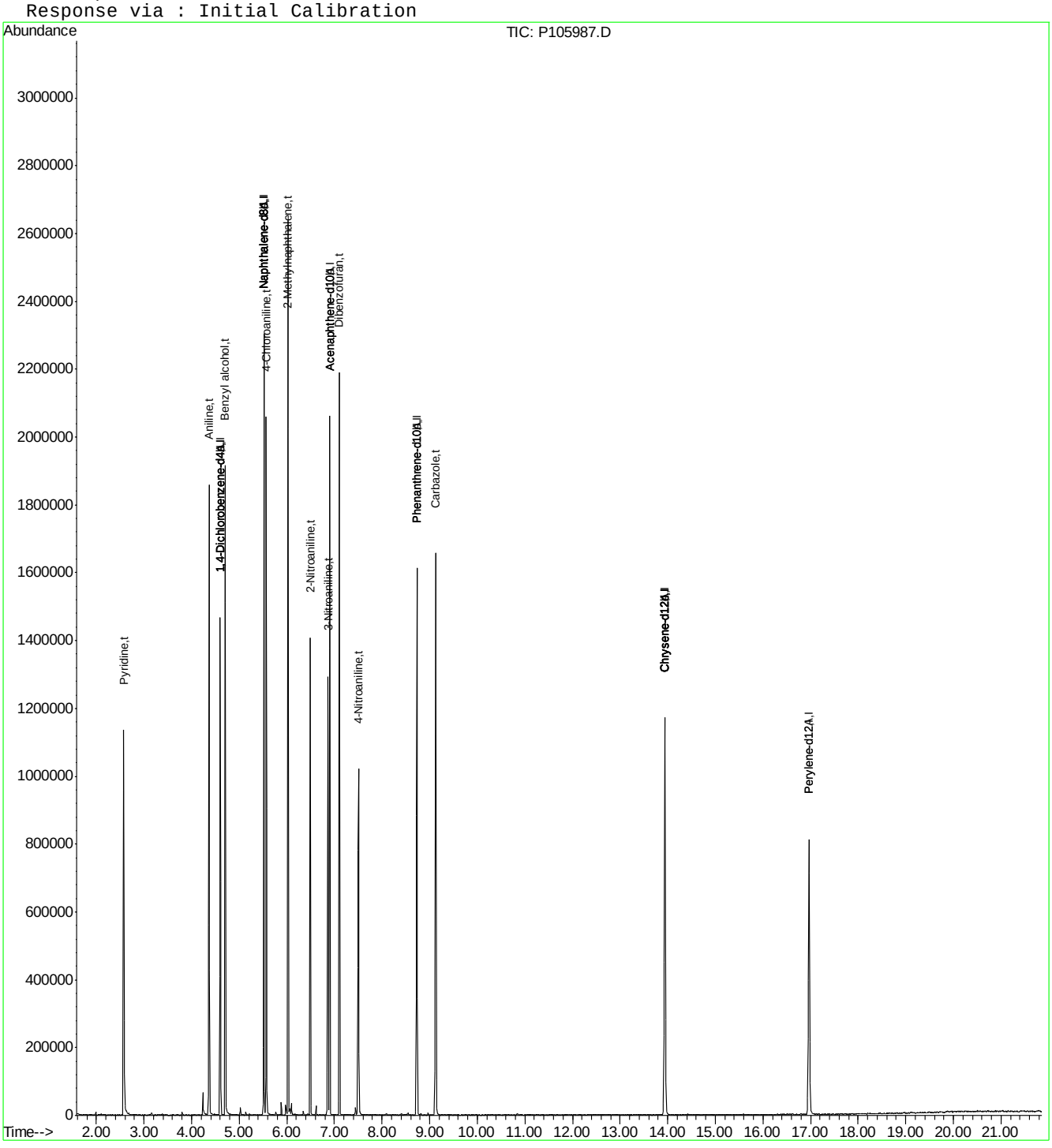
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105987.D Vial: 11
Acq On : 11 Jul 2016 8:15 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:38 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:39:42 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	213183	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	631560	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	359591	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	630857	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	529496	40.00	ppm	0.00
91) Perylene-d12	16.98	264	358059	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	213183	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	631560	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	359591	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	630857	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	529496	40.00	ppm	0.00
154) Perylene-d12A	16.98	264	358059	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	213183	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	630857	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	529496	40.00	ppm	0.01
164) Naphthalene-d8b	5.52	136	631560	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	359591	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	631560	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	213183	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	529391	40.00	ppm	0.00
177) Chrysene-d12d	13.95	240	529391	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	631560	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	0	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	2.45	42	147610	42.51	ppm	93
11) bis(2-Chloroethyl)ether	4.41	93	406320	51.80	ppm	98
14) 1,3-Dichlorobenzene	4.56	146	370292	49.49	ppm	96
15) 1,4-Dichlorobenzene	4.61	146	346998	48.65	ppm	97
17) 1,2-Dichlorobenzene	4.72	146	351885	52.31	ppm	97
20) 2,2'-oxybis(1-Chloropropan	4.80	121	112379	49.06	ppm	89
22) n-Nitroso-di-n-propylamine	4.89	70	263065	45.84	ppm	96
23) Hexachloroethane	4.97	201	144399	52.15	ppm	93
26) Nitrobenzene	5.01	77	389536	47.42	ppm	99
28) Isophorone	5.18	82	656010	47.27	ppm	98
32) bis(2-Chloroethoxy)methane	5.34	93	415960	51.64	ppm	98
36) 1,2,4-Trichlorobenzene	5.47	180	297031	53.48	ppm	98

(#) = qualifier out of range (m) = manual integration
P105988.D MP4681.M Tue Jul 12 13:46:21 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:39:42 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38)	Naphthalene	5.53	128	763643	47.06	ppm	98
42)	Hexachlorobutadiene	5.61	225	204443	58.91	ppm	96
48)	Hexachlorocyclopentadiene	6.14	237	178127	50.95	ppm	96
52)	2-Chloronaphthalene	6.40	162	528762	53.24	ppm	98
55)	Dimethylphthalate	6.64	163	528261	46.52	ppm	100
56)	Acenaphthylene	6.77	152	778336	46.59	ppm	99
57)	2,6-Dinitrotoluene	6.70	165	123227	50.85	ppm	95
59)	Acenaphthene	6.93	153	491088	49.38	ppm	95
63)	2,4-Dinitrotoluene	7.09	165	157213	45.31	ppm	98
65)	Diethylphthalate	7.35	149	594511	46.54	ppm	99
66)	Fluorene	7.48	166	562345	45.19	ppm	98
67)	4-Chlorophenyl-phenylether	7.48	204	292957	46.69	ppm	95
71)	n-Nitrosodiphenylamine	7.62	169	373330	45.43	ppm	100
72)	1,2-Diphenylhydrazine	7.67	77	639442	42.77	ppm	99
74)	4-Bromophenyl-phenylether	8.10	248	175452	49.94	ppm	97
75)	Hexachlorobenzene	8.17	284	173414	48.41	ppm	95
77)	Phenanthrene	8.77	178	753216	48.36	ppm	99
78)	Anthracene	8.85	178	727560	45.59	ppm	99
80)	Di-n-butylphthalate	9.82	149	923978	44.89	ppm	99
81)	Fluoranthene	10.88	202	945157	45.02	ppm	100
84)	Pyrene	11.32	202	902190	50.81	ppm	98
86)	Butylbenzylphthalate	12.93	149	425718	54.00	ppm	99
87)	Benzo[a]anthracene	13.93	228	780791	51.23	ppm	97
89)	Chrysene	14.01	228	645151	47.64	ppm	99
90)	bis(2-Ethylhexyl)phthalate	14.33	149	477488	51.03	ppm	99
92)	Di-n-octylphthalate	15.77	149	793190	53.34	ppm	99
93)	Benzo[b]fluoranthene	16.23	252	618354	48.26	ppm	99
94)	Benzo[k]fluoranthene	16.29	252	579109	52.66	ppm	99
95)	Benzo[a]pyrene	16.86	252	593565	53.91	ppm	95
96)	Indeno[1,2,3-cd]pyrene	18.91	276	515645	62.46	ppm	99
98)	Dibenz[a,h]anthracene	18.98	278	448532	56.06	ppm	99
100)	Benzo[g,h,i]perylene	19.34	276	487066	55.35	ppm	98

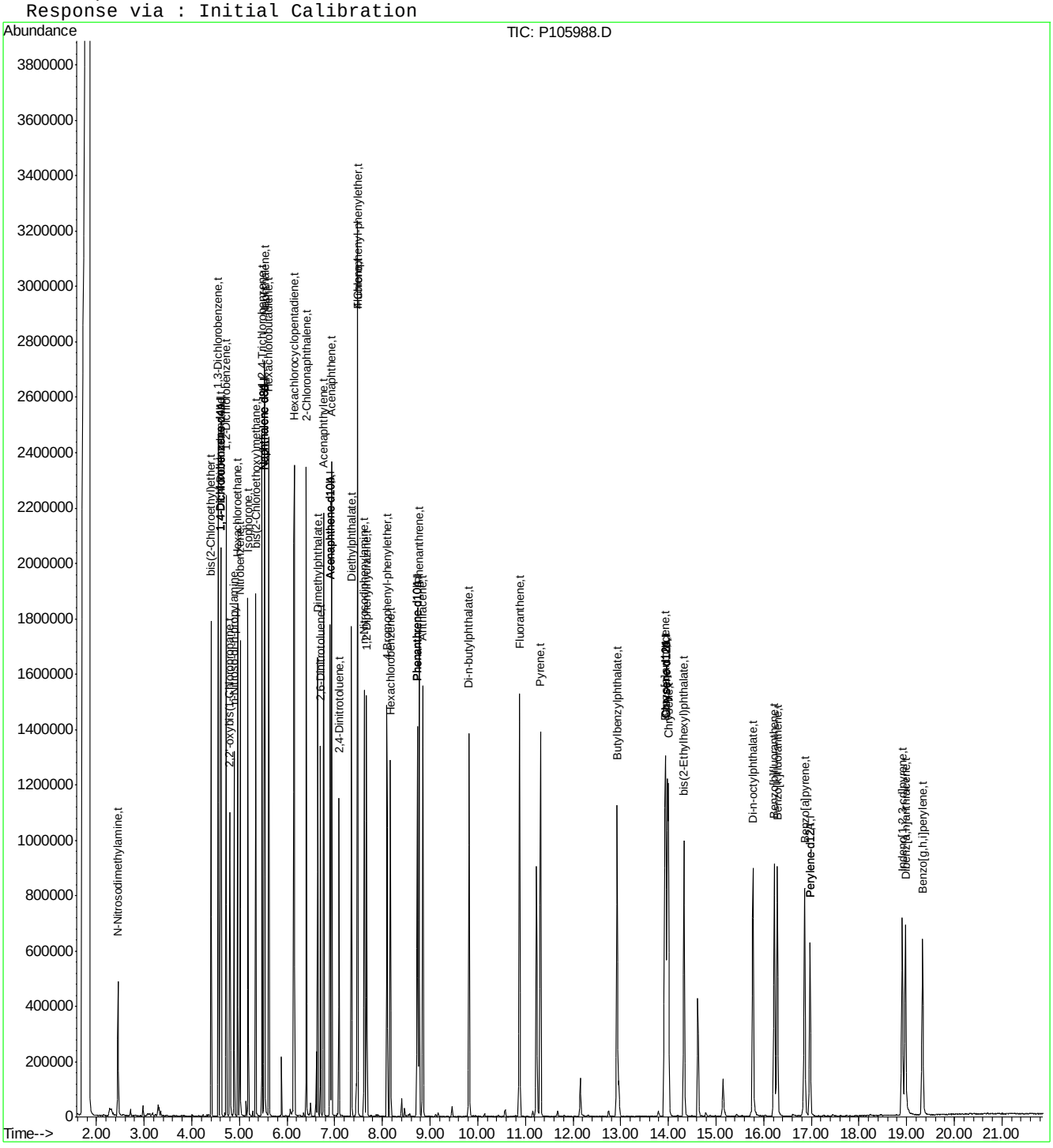
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:46 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988A.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:39:42 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	213183	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	631560	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	359591	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	630857	40.00	ppm	0.00
83) Chrysene-d12	13.95	240	529496	40.00	ppm	0.00
91) Perylene-d12	16.98	264	358059	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	213183	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	631560	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	359591	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	630857	40.00	ppm	0.00
146) Chrysene-d12A	13.95	240	529496	40.00	ppm	0.00
154) Perylene-d12A	16.98	264	358059	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	213183	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	630857	40.00	ppm	0.00
162) Chrysene-d12b	13.95	240	529496	40.00	ppm	0.01
164) Naphthalene-d8b	5.52	136	631560	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	359591	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	631560	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	213183	40.00	ppm	-0.01
175) Chrysene-d12c	13.95	240	529391	40.00	ppm	0.00
177) Chrysene-d12d	13.95	240	529391	40.00	ppm	0.00
179) Naphthalene-d8d	5.52	136	631560	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	0	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
163) Benzidine	11.23	184	557533	80.22	ppm	99
167) 1,2,4,5-Tetrachlorobenzene	6.15	216	318933	59.31	ppm	95

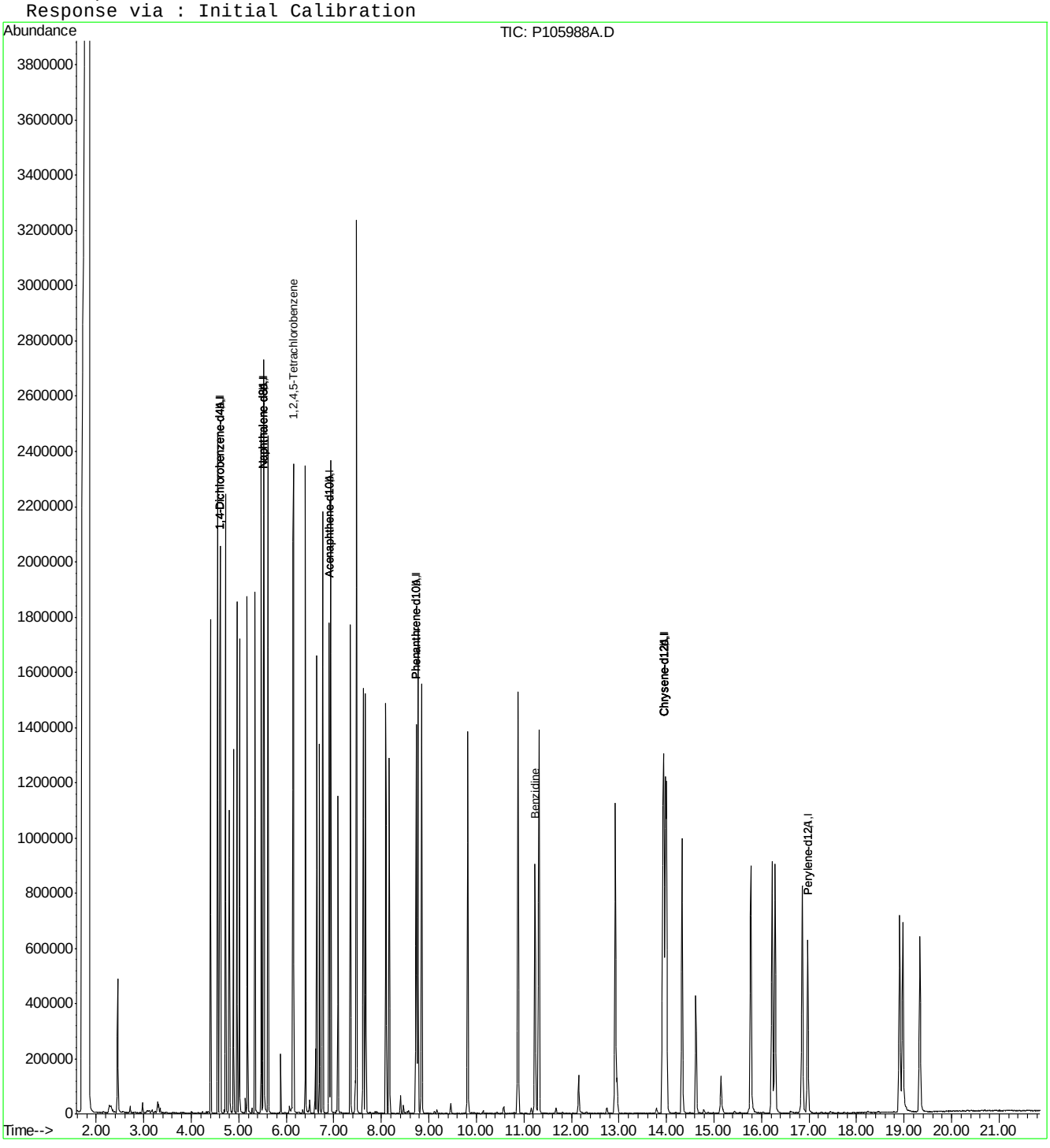
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105988A.D Vial: 12
Acq On : 11 Jul 2016 8:44 pm Operator: brittanp
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:45 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105990.D Vial: 14
Acq On : 11 Jul 2016 9:42 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:42:10 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	233017	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	746725	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	416431	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	719432	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	644291	40.00	ppm	-0.02
91) Perylene-d12	16.98	264	498666	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4A	4.60	152	233017	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	746725	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	416431	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	719432	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	644291	40.00	ppm	-0.02
154) Perylene-d12A	16.98	264	498666	40.00	ppm	-0.01
158) 1,4-Dichlorobenzene-d4b	4.60	152	233017	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	719432	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	644291	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	746725	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	416431	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	746725	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	233017	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	644291	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	644291	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	746725	40.00	ppm	0.00

System Monitoring Compounds

5) 2-Fluorophenol	3.62	112	390234	49.80	ppm	0.00
Spiked Amount 50.000			Recovery = 99.60%			
8) Phenol-d5	4.34	99	499877	45.23	ppm	0.00
Spiked Amount 50.000			Recovery = 90.46%			
25) Nitrobenzene-d5	5.00	82	461624	49.06	ppm	0.00
Spiked Amount 50.000			Recovery = 98.12%			
51) 2-Fluorobiphenyl	6.31	172	720204	52.96	ppm	0.00
Spiked Amount 50.000			Recovery = 105.92%			
73) 2,4,6-Tribromophenol	7.77	330	88455	55.64	ppm	0.00
Spiked Amount 50.000			Recovery = 111.28%			
85) Terphenyl-d14	11.75	244	700835	56.11	ppm	0.00
Spiked Amount 50.000			Recovery = 112.22%			

Target Compounds Qvalue

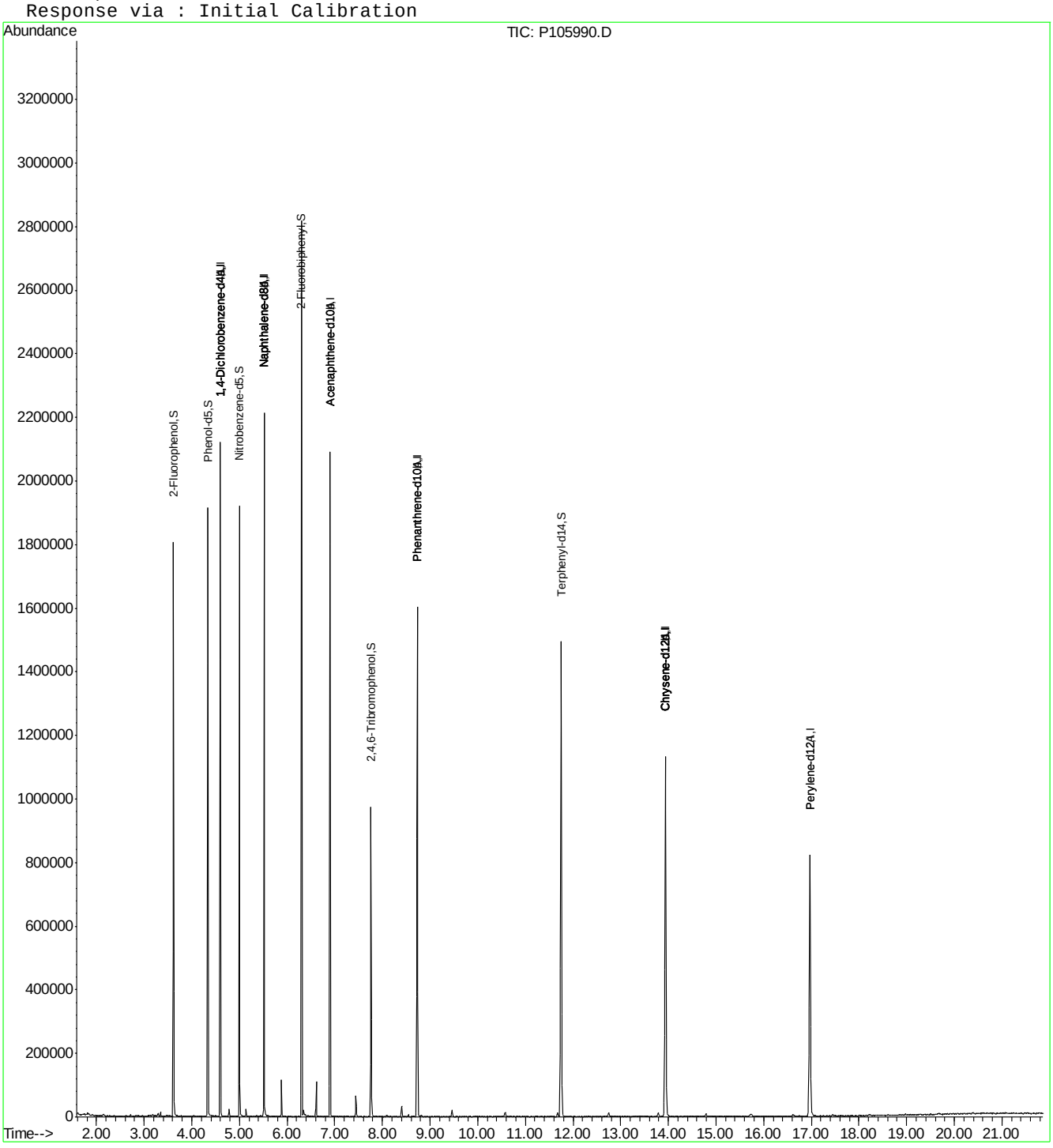
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105990.D Vial: 14
Acq On : 11 Jul 2016 9:42 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:42 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105991.D Vial: 15
Acq On : 11 Jul 2016 10:11 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:42:59 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	214429	40.00 ppm	0.00
24) Naphthalene-d8	5.52	136	671021	40.00 ppm	0.00
47) Acenaphthene-d10	6.90	164	396321	40.00 ppm	0.00
69) Phenanthrene-d10	8.73	188	714892	40.00 ppm	0.00
83) Chrysene-d12	13.94	240	711507	40.00 ppm	-0.02
91) Perylene-d12	16.97	264	576704	40.00 ppm	-0.02
101) 1,4-Dichlorobenzene-d4A	4.60	152	214429	40.00 ppm	0.00
111) Naphthalene-d8A	5.52	136	671021	40.00 ppm	0.00
120) Acenaphthene-d10A	6.90	164	396321	40.00 ppm	0.00
131) Phenanthrene-d10A	8.73	188	714892	40.00 ppm	0.00
146) Chrysene-d12A	13.94	240	711507	40.00 ppm	-0.02
154) Perylene-d12A	16.97	264	576704	40.00 ppm	-0.02
158) 1,4-Dichlorobenzene-d4b	4.60	152	214429	40.00 ppm	0.00
160) Phenanthrene-d10b	8.73	188	714892	40.00 ppm	0.00
162) Chrysene-d12b	13.94	240	711507	40.00 ppm	0.00
164) Naphthalene-d8b	5.52	136	671021	40.00 ppm	0.00
166) Acenaphthene-d10b	6.90	164	396321	40.00 ppm	0.00
168) Naphthalene-d8c	5.52	136	671021	40.00 ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	214429	40.00 ppm	-0.01
175) Chrysene-d12c	13.94	240	712028	40.00 ppm	-0.02
177) Chrysene-d12d	13.94	240	712028	40.00 ppm	-0.02
179) Naphthalene-d8d	5.52	136	671021	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	0	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

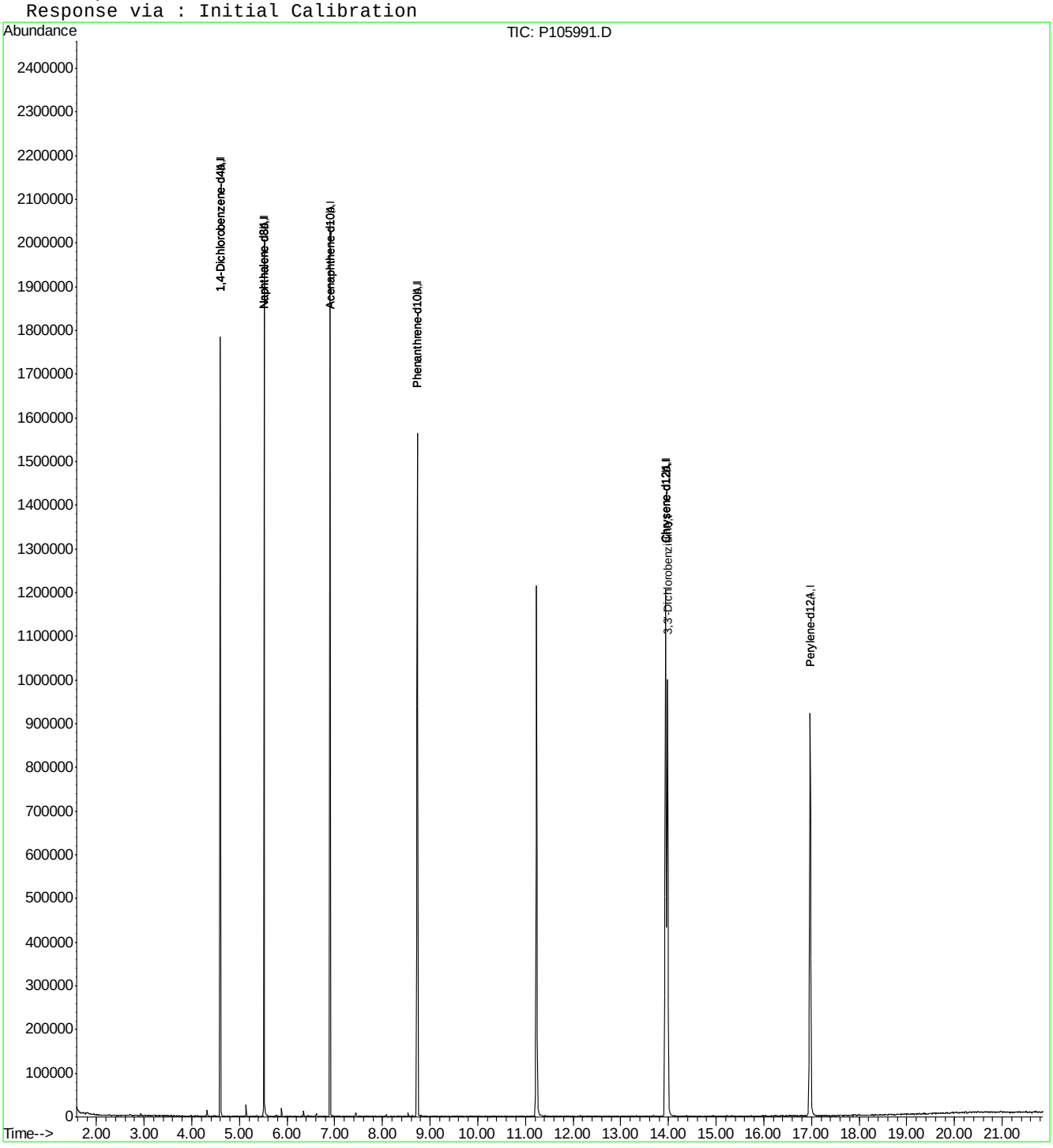
					Qvalue
88) 3,3'-Dichlorobenzidine	13.98	252	321658	47.05 ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
P105991.D MP4681.M Tue Jul 12 13:53:00 2016 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105991.D Vial: 15
Acq On : 11 Jul 2016 10:11 pm Operator: brittanp
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:43 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105992.D Vial: 16
Acq On : 11 Jul 2016 10:40 pm Operator: brittanp
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:43:57 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.60	152	211623	40.00	ppm	0.00
24) Naphthalene-d8	5.52	136	671498	40.00	ppm	0.00
47) Acenaphthene-d10	6.90	164	387138	40.00	ppm	0.00
69) Phenanthrene-d10	8.73	188	701924	40.00	ppm	0.00
83) Chrysene-d12	13.94	240	704386	40.00	ppm	-0.02
91) Perylene-d12	16.97	264	564238	40.00	ppm	-0.02
101) 1,4-Dichlorobenzene-d4A	4.60	152	211623	40.00	ppm	0.00
111) Naphthalene-d8A	5.52	136	671498	40.00	ppm	0.00
120) Acenaphthene-d10A	6.90	164	387138	40.00	ppm	0.00
131) Phenanthrene-d10A	8.73	188	701924	40.00	ppm	0.00
146) Chrysene-d12A	13.94	240	704386	40.00	ppm	-0.02
154) Perylene-d12A	16.97	264	564238	40.00	ppm	-0.02
158) 1,4-Dichlorobenzene-d4b	4.60	152	211623	40.00	ppm	0.00
160) Phenanthrene-d10b	8.73	188	701924	40.00	ppm	0.00
162) Chrysene-d12b	13.94	240	704386	40.00	ppm	0.00
164) Naphthalene-d8b	5.52	136	671498	40.00	ppm	0.00
166) Acenaphthene-d10b	6.90	164	387138	40.00	ppm	0.00
168) Naphthalene-d8c	5.52	136	671498	40.00	ppm	0.00
173) 1,4-Dichlorobenzene-d4a	4.60	152	211623	40.00	ppm	-0.01
175) Chrysene-d12c	13.94	240	704386	40.00	ppm	-0.02
177) Chrysene-d12d	13.94	240	704386	40.00	ppm	-0.02
179) Naphthalene-d8d	5.52	136	671498	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	0	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
165) Hydroquinone	5.81	110	307115	52.39	ppm	70

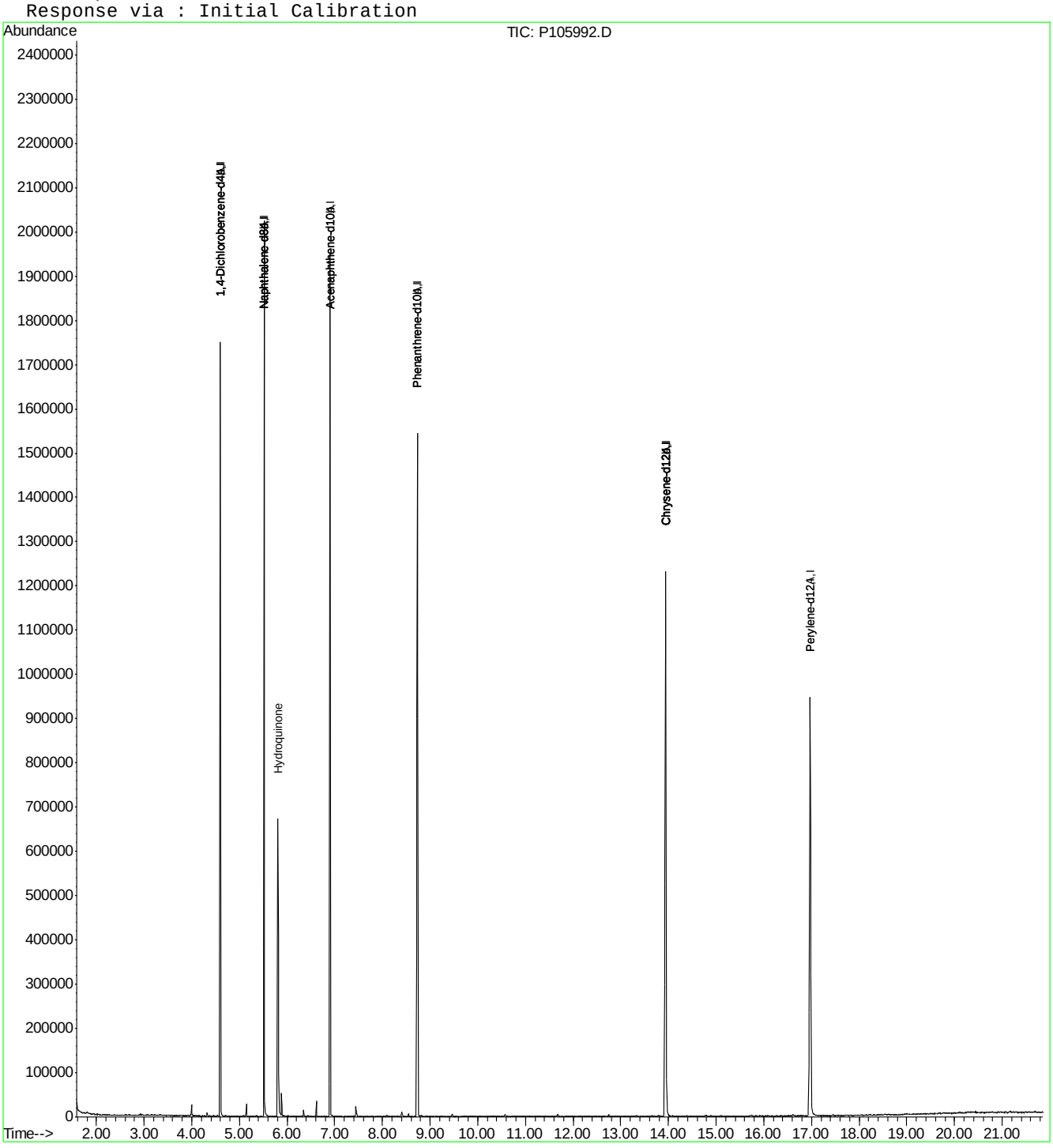
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4682\P105992.D Vial: 16
Acq On : 11 Jul 2016 10:40 pm Operator: brittanp
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4682 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 13:44 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 13:29:31 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105998.D Vial: 2
Acq On : 12 Jul 2016 4:43 pm Operator: ashleyd
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 17:11:20 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.58	152	196369	40.00	ppm	-0.02
24) Naphthalene-d8	5.50	136	744238	40.00	ppm	-0.02
47) Acenaphthene-d10	6.88	164	365397	40.00	ppm	-0.03
69) Phenanthrene-d10	8.70	188	628741	40.00	ppm	-0.04
83) Chrysene-d12	13.90	240	661098	40.00	ppm	-0.05
91) Perylene-d12	16.93	264	461690	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4A	4.58	152	196369	40.00	ppm	-0.02
111) Naphthalene-d8A	5.50	136	744238	40.00	ppm	-0.02
120) Acenaphthene-d10A	6.88	164	365397	40.00	ppm	-0.03
131) Phenanthrene-d10A	8.70	188	628741	40.00	ppm	-0.04
146) Chrysene-d12A	13.90	240	661098	40.00	ppm	-0.05
154) Perylene-d12A	16.93	264	461690	40.00	ppm	-0.05
158) 1,4-Dichlorobenzene-d4b	4.58	152	196369	40.00	ppm	-0.02
160) Phenanthrene-d10b	8.70	188	628741	40.00	ppm	-0.03
162) Chrysene-d12b	13.90	240	661098	40.00	ppm	-0.04
164) Naphthalene-d8b	5.50	136	744238	40.00	ppm	-0.02
166) Acenaphthene-d10b	6.88	164	365397	40.00	ppm	-0.02
168) Naphthalene-d8c	5.50	136	744238	40.00	ppm	-0.02
173) 1,4-Dichlorobenzene-d4a	4.58	152	196369	40.00	ppm	-0.03
175) Chrysene-d12c	13.90	240	661098	40.00	ppm	-0.05
177) Chrysene-d12d	13.90	240	661098	40.00	ppm	-0.05
179) Naphthalene-d8d	5.50	136	744238	40.00	ppm	-0.02

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	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	2.12	88	132447	37.82	ppm	100
6) Indene	4.76	116	523238	45.28	ppm	99
7) Cumene	3.98	105	689994	39.81	ppm	98
13) Decane	4.46	43	256445	34.45	ppm	89
18) Acetophenone	4.87	105	419768	45.53	ppm	86
27) Quinoline	5.75	129	543304	36.67	ppm	98
40) 2,3-Dichloroaniline	6.22	161	263352	35.77	ppm	98
41) Caprolactam	5.79	55	170190	35.08	ppm	95
45) 1-Methylnaphthalene	6.08	142	508589	38.13	ppm	98
46) Dimethylnaphthalene	6.50	156	462878	38.40	ppm	99
53) Biphenyl	6.37	154	633830	45.59	ppm	97
82) Octadecane	8.61	57	454737	43.52	ppm	98

(#) = qualifier out of range (m) = manual integration
P105998.D MP4681.M Tue Jul 12 17:22:24 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105998.D Vial: 2
Acq On : 12 Jul 2016 4:43 pm Operator: ashleyd
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 17:11:20 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
99) 7,12-Dimethylbenz(a)anthra	16.20	256	250655	33.59	ppm	100

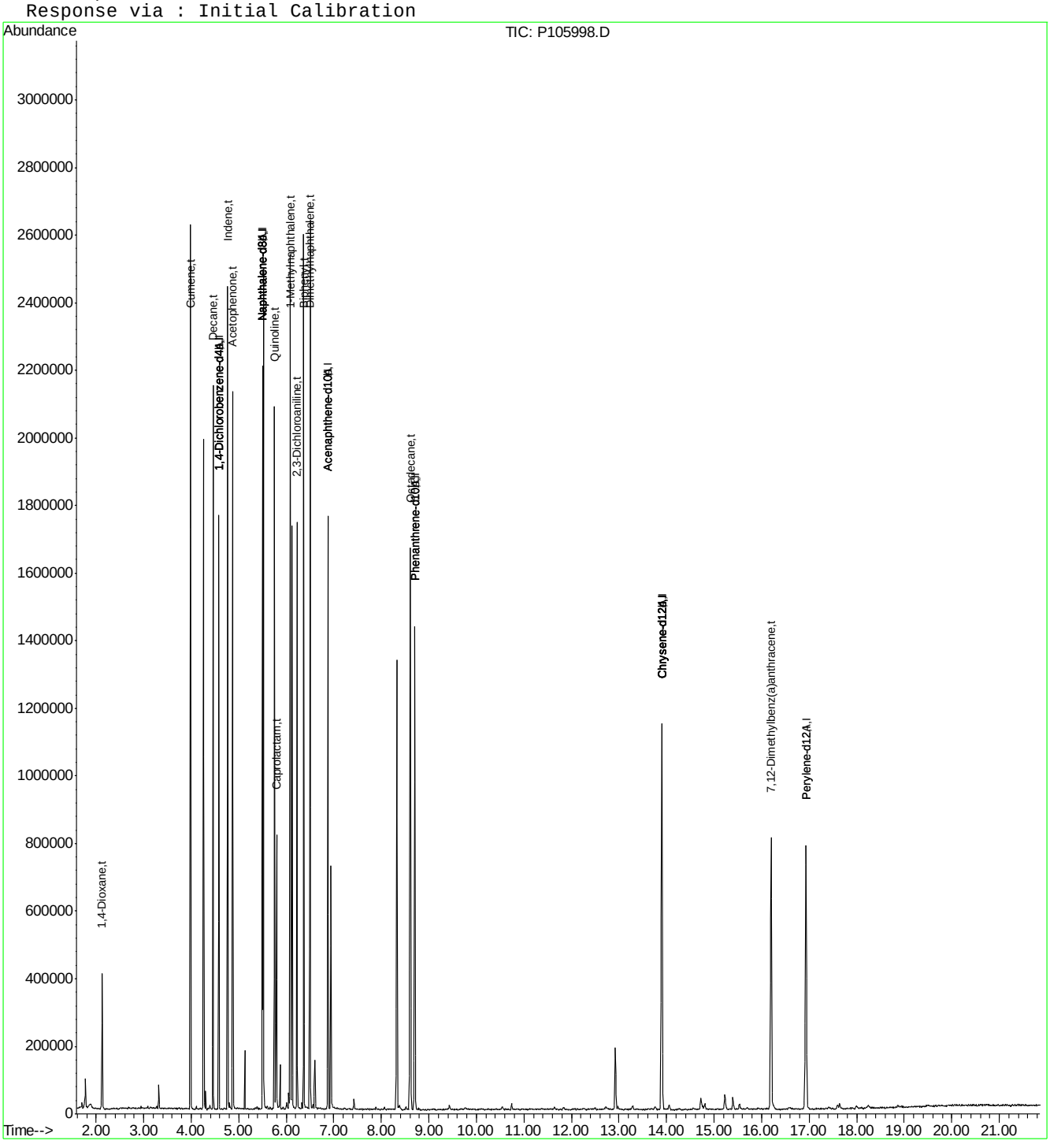
(#) = qualifier out of range (m) = manual integration (+) = signals summed
P105998.D MP4681.M Tue Jul 12 17:22:24 2016

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105998.D Vial: 2
Acq On : 12 Jul 2016 4:43 pm Operator: ashleyd
Sample : icv4681-50 Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 17:22 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration



P105998.D MP4681.M Tue Jul 12 17:22:24 2016 Page 3

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105998A.D Vial: 2
Acq On : 12 Jul 2016 4:43 pm Operator: ashleyd
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 17:11:20 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.58	152	196369	40.00	ppm	-0.02
24) Naphthalene-d8	5.50	136	744238	40.00	ppm	-0.02
47) Acenaphthene-d10	6.88	164	365397	40.00	ppm	-0.03
69) Phenanthrene-d10	8.70	188	628741	40.00	ppm	-0.04
83) Chrysene-d12	13.90	240	661098	40.00	ppm	-0.05
91) Perylene-d12	16.93	264	461690	40.00	ppm	-0.05
101) 1,4-Dichlorobenzene-d4A	4.58	152	196369	40.00	ppm	-0.02
111) Naphthalene-d8A	5.50	136	744238	40.00	ppm	-0.02
120) Acenaphthene-d10A	6.88	164	365397	40.00	ppm	-0.03
131) Phenanthrene-d10A	8.70	188	628741	40.00	ppm	-0.04
146) Chrysene-d12A	13.90	240	661098	40.00	ppm	-0.05
154) Perylene-d12A	16.93	264	461690	40.00	ppm	-0.05
158) 1,4-Dichlorobenzene-d4b	4.58	152	196369	40.00	ppm	-0.02
160) Phenanthrene-d10b	8.70	188	628741	40.00	ppm	-0.03
162) Chrysene-d12b	13.90	240	661098	40.00	ppm	-0.04
164) Naphthalene-d8b	5.50	136	744238	40.00	ppm	-0.02
166) Acenaphthene-d10b	6.88	164	365397	40.00	ppm	-0.02
168) Naphthalene-d8c	5.50	136	744238	40.00	ppm	-0.02
173) 1,4-Dichlorobenzene-d4a	4.58	152	196369	40.00	ppm	-0.03
175) Chrysene-d12c	13.90	240	661098	40.00	ppm	-0.05
177) Chrysene-d12d	13.90	240	661098	40.00	ppm	-0.05
179) Naphthalene-d8d	5.50	136	744238	40.00	ppm	-0.02

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.00	172	0	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
159) Benzaldehyde	4.26	105	261801	51.91	ppm	84
161) Atrazine	8.33	200	174276	61.15	ppm	84

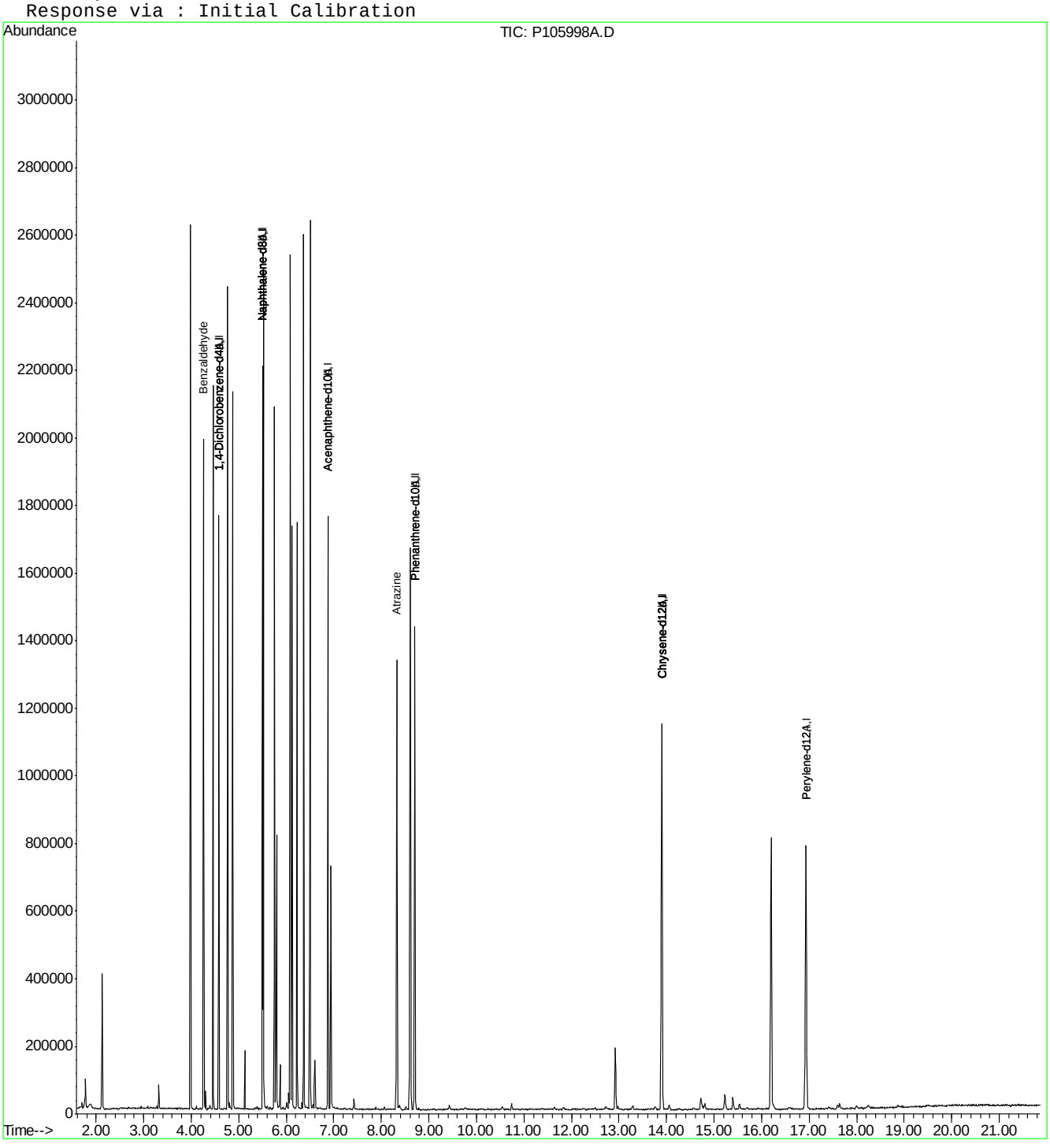
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4683\P105998A.D Vial: 2
Acq On : 12 Jul 2016 4:43 pm Operator: ashleyd
Sample : icv4682-50 Inst : MSP
Misc : op93881,ep4683 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 12 17:22 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Tue Jul 12 17:11:18 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4706\P106447.D Vial: 2
Acq On : 29 Jul 2016 9:10 am Operator: ashleyd
Sample : cc4681-25 Inst : MSP
Misc : op95516,ep4706 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 09:42:22 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 29 09:42:20 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.38	152	107977	40.00	ppm	-0.03
24) Naphthalene-d8	5.30	136	405786	40.00	ppm	-0.03
47) Acenaphthene-d10	6.63	164	254041	40.00	ppm	-0.03
69) Phenanthrene-d10	8.36	188	468900	40.00	ppm	-0.04
83) Chrysene-d12	13.48	240	461345	40.00	ppm	-0.04
91) Perylene-d12	16.50	264	407587	40.00	ppm	-0.03
101) 1,4-Dichlorobenzene-d4b	4.38	152	107977	40.00	ppm	-0.03
103) Phenanthrene-d10b	8.36	188	468900	40.00	ppm	-0.04
105) Chrysene-d12b	13.48	240	461345	40.00	ppm	-0.04
107) Naphthalene-d8b	5.30	136	405786	40.00	ppm	-0.03
109) Acenaphthene-d10b	6.63	164	254041	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.41	112	98992	27.26	ppm	-0.05
Spiked Amount 50.000			Recovery = 54.52%			
8) Phenol-d5	4.15	99	122730	23.96	ppm	-0.01
Spiked Amount 50.000			Recovery = 47.92%			
25) Nitrobenzene-d5	4.79	82	111865	21.88	ppm	-0.04
Spiked Amount 50.000			Recovery = 43.76%			
51) 2-Fluorobiphenyl	6.07	172	204284	24.62	ppm	-0.01
Spiked Amount 50.000			Recovery = 49.24%			
73) 2,4,6-Tribromophenol	7.45	330	28458	27.46	ppm	-0.03
Spiked Amount 50.000			Recovery = 54.92%			
85) Terphenyl-d14	11.30	244	244144	27.30	ppm	-0.05
Spiked Amount 50.000			Recovery = 54.60%			

Target Compounds							Qvalue
2) 1,4-Dioxane	1.84	88	38995	20.25	ppm		98
3) Pyridine	2.19	79	111996	23.69	ppm		87
4) N-Nitrosodimethylamine	2.16	42	50406	28.66	ppm		72
6) Indene	4.57	116	178755	28.13	ppm		91
7) Cumene	3.78	105	252984	26.55	ppm		94
9) Phenol	4.16	94	149938	24.86	ppm		74
10) Aniline	4.14	93	166466	23.98	ppm	#	24
11) bis(2-Chloroethyl)ether	4.19	93	91162	22.95	ppm		87
12) 2-Chlorophenol	4.23	128	104175	28.05	ppm		89
13) Decane	4.26	43	89460	21.86	ppm		92
14) 1,3-Dichlorobenzene	4.34	146	109038	28.77	ppm		99
15) 1,4-Dichlorobenzene	4.39	146	103979	28.78	ppm		96
16) Benzyl alcohol	4.50	108	70658	27.20	ppm		94
17) 1,2-Dichlorobenzene	4.50	146	97839	28.72	ppm		97
18) Acetophenone	4.68	105	145552	28.71	ppm		88
19) 2-Methylphenol	4.59	108	93577	28.36	ppm		96
20) 2,2'-oxybis(1-Chloropropan	4.58	121	31093	26.80	ppm	#	70
21) 3&4-Methylphenol	4.70	108	106016	29.74	ppm		97
22) n-Nitroso-di-n-propylamine	4.68	70	75110	25.84	ppm	#	91
23) Hexachloroethane	4.74	201	39219	27.97	ppm		97
26) Nitrobenzene	4.80	77	114228	21.64	ppm		94
27) Quinoline	5.55	129	210619	26.07	ppm		99
28) Isophorone	4.97	82	195775	21.95	ppm		95

(#) = qualifier out of range (m) = manual integration
P106447.D MP4681.M Fri Jul 29 12:35:31 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4706\P106447.D Vial: 2
Acq On : 29 Jul 2016 9:10 am Operator: ashleyd
Sample : cc4681-25 Inst : MSP
Misc : op95516,ep4706 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 09:42:22 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 29 09:42:20 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
29) 2-Nitrophenol	5.03	139	59433	27.81 ppm		86
30) 2,4-Dimethylphenol	5.08	107	101779	23.11 ppm		95
31) Benzoic acid	5.17	105	76344	23.52 ppm		89
32) bis(2-Chloroethoxy)methane	5.13	93	110239	21.30 ppm		96
33) 2,4-Dichlorophenol	5.21	162	87931	26.54 ppm		98
34) 2,6-Dichlorophenol	5.37	162	85042	26.40 ppm		98
35) 1,3,5-Trichlorobenzene	5.04	180	100128	26.40 ppm		93
36) 1,2,4-Trichlorobenzene	5.26	180	93912	26.32 ppm		99
37) 1,2,3-Trichlorobenzene	5.42	180	93302	27.03 ppm		98
38) Naphthalene	5.31	128	270285	25.93 ppm		97
39) 4-Chloroaniline	5.36	127	129090	25.60 ppm		93
40) 2,3-Dichloroaniline	6.01	161	106932	26.64 ppm		94
41) Caprolactam	5.63	55	43985	16.63 ppm	#	77
42) Hexachlorobutadiene	5.40	225	56135	25.18 ppm		94
43) 4-Chloro-3-methylphenol	5.73	107	101131	26.92 ppm		97
44) 2-Methylnaphthalene	5.81	141	175726	27.93 ppm		93
45) 1-Methylnaphthalene	5.87	142	198992	27.36 ppm		90
46) Dimethylnaphthalene	6.27	156	181150	27.56 ppm		96
48) Hexachlorocyclopentadiene	5.91	237	76167	30.84 ppm		97
49) 2,4,6-Trichlorophenol	6.02	196	64111	23.30 ppm		96
50) 2,4,5-Trichlorophenol	6.06	196	70799	24.44 ppm		98
52) 2-Chloronaphthalene	6.16	162	177962	25.37 ppm		94
53) Biphenyl	6.15	154	248429	25.70 ppm		97
54) 2-Nitroaniline	6.25	65	73277	20.95 ppm		83
55) Dimethylphthalate	6.39	163	224218	27.95 ppm		99
56) Acenaphthylene	6.51	152	307885	26.08 ppm		95
57) 2,6-Dinitrotoluene	6.45	165	52012	30.38 ppm		83
58) 3-Nitroaniline	6.60	138	64268	26.83 ppm		81
59) Acenaphthene	6.65	153	186772	26.58 ppm		97
60) 2,4-Dinitrophenol	6.71	184	57349	51.64 ppm		96
61) 4-Nitrophenol	6.80	109	31872	20.71 ppm		83
62) Dibenzofuran	6.82	168	294865	26.12 ppm		93
63) 2,4-Dinitrotoluene	6.82	165	68104	27.78 ppm		78
64) 2,3,4,6-Tetrachlorophenol	6.95	232	54441	23.63 ppm		92
65) Diethylphthalate	7.06	149	225899	25.03 ppm		98
66) Fluorene	7.17	166	219177	24.93 ppm		92
67) 4-Chlorophenyl-phenylether	7.17	204	116285	26.23 ppm		92
68) 4-Nitroaniline	7.22	138	60422	25.23 ppm		82
70) 4,6-Dinitro-2-methylphenol	7.25	198	45557	29.54 ppm		78
71) n-Nitrosodiphenylamine	7.31	169	158455	25.94 ppm		100
72) 1,2-Diphenylhydrazine	7.35	77	225823	20.32 ppm		93
74) 4-Bromophenyl-phenylether	7.76	248	64503	24.70 ppm		98
75) Hexachlorobenzene	7.82	284	64619	24.27 ppm		95
76) Pentachlorophenol	8.11	266	61367	40.93 ppm		94
77) Phenanthrene	8.40	178	310717	26.84 ppm		98
78) Anthracene	8.48	178	323991	27.31 ppm		98
79) Carbazole	8.75	167	331321	26.64 ppm		98
80) Di-n-butylphthalate	9.42	149	392715	25.67 ppm		99
81) Fluoranthene	10.44	202	385361	24.70 ppm		96

(#) = qualifier out of range (m) = manual integration
P106447.D MP4681.M Fri Jul 29 12:35:31 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4706\P106447.D Vial: 2
Acq On : 29 Jul 2016 9:10 am Operator: ashleyd
Sample : cc4681-25 Inst : MSP
Misc : op95516,ep4706 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 09:42:22 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 29 09:42:20 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

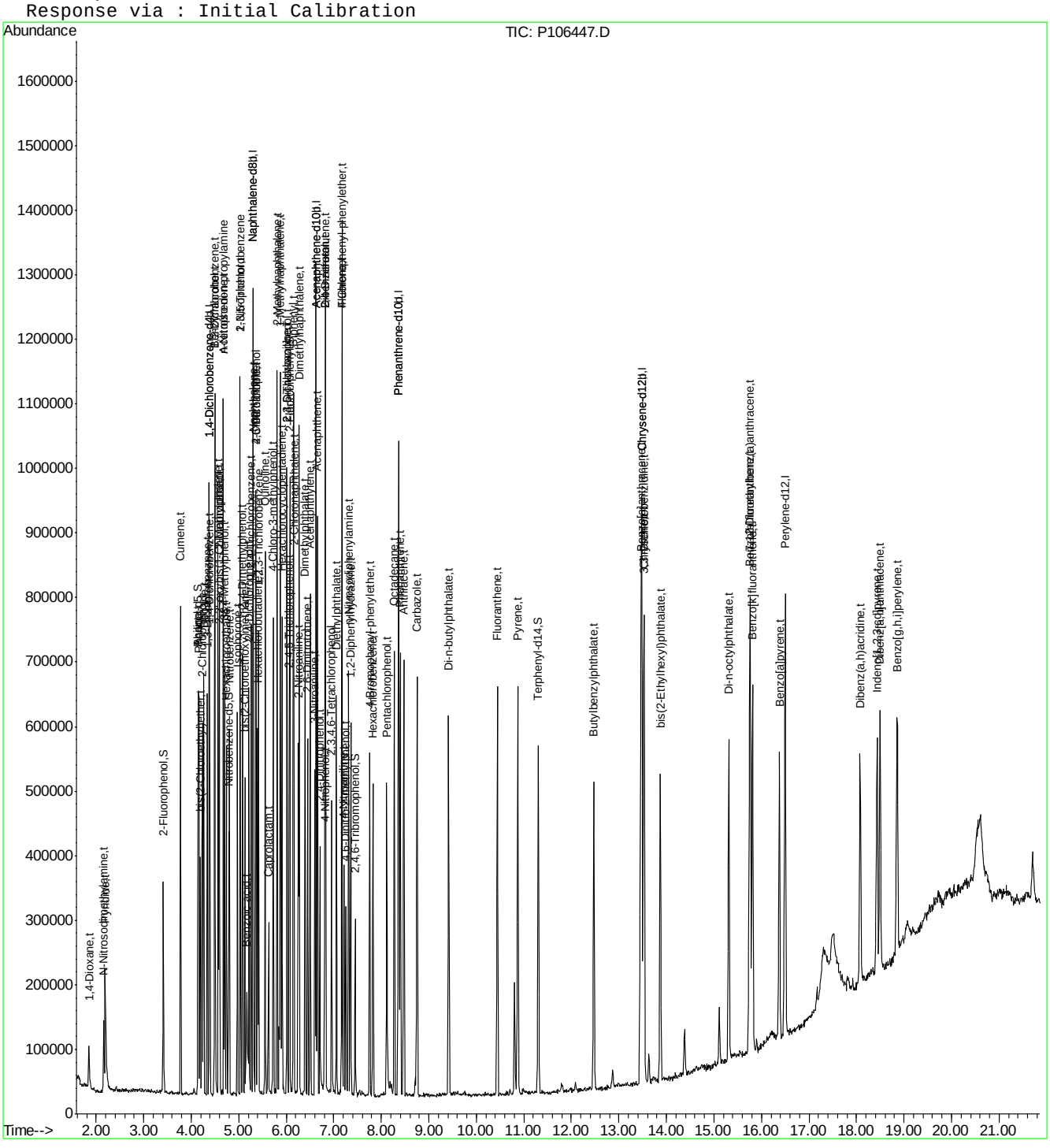
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
82)	Octadecane	8.27	57	133119	17.08	ppm	81
84)	Pyrene	10.88	202	397074	25.67	ppm	98
86)	Butylbenzylphthalate	12.47	149	180211	26.24	ppm	90
87)	Benzo[a]anthracene	13.46	228	364442	27.44	ppm	99
88)	3,3'-Dichlorobenzidine	13.52	252	131141	29.58	ppm	92
89)	Chrysene	13.54	228	338514	28.69	ppm	99
90)	bis(2-Ethylhexyl)phthalate	13.87	149	240269	29.47	ppm	95
92)	Di-n-octylphthalate	15.31	149	399336	23.59	ppm	99
93)	Benzo[b]fluoranthene	15.75	252	342135	23.46	ppm	96
94)	Benzo[k]fluoranthene	15.81	252	312727	24.98	ppm	93
95)	Benzo[a]pyrene	16.38	252	297148	23.71	ppm	96
96)	Indeno[1,2,3-cd]pyrene	18.43	276	262343	27.92	ppm	86
97)	Dibenz(a,h)acridine	18.08	279	243981	26.07	ppm	95
98)	Dibenz[a,h]anthracene	18.50	278	258188	28.35	ppm	97
99)	7,12-Dimethylbenz(a)anthra	15.77	256	152561	23.16	ppm	97
100)	Benzo[g,h,i]perylene	18.86	276	277851	27.74	ppm	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4706\P106447.D Vial: 2
Acq On : 29 Jul 2016 9:10 am Operator: ashleyd
Sample : cc4681-25 Inst : MSP
Misc : op95516,ep4706 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 12:35 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 29 12:21:50 2016
Response via : Initial Calibration



SGS ACCUTEST JC24816

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4706\P106448.D Vial: 3
Acq On : 29 Jul 2016 9:49 am Operator: brittanp
Sample : cc4682-25 Inst : MSP
Misc : op95516,ep4706 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 10:11:17 2016 Quant Results File: MP4681.RES

Quant Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 29 09:42:20 2016
Response via : Initial Calibration
DataAcq Meth : MP4681

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.38	152	112814	40.00	ppm	-0.03
24) Naphthalene-d8	5.30	136	422297	40.00	ppm	-0.03
47) Acenaphthene-d10	6.62	164	269532	40.00	ppm	-0.04
69) Phenanthrene-d10	8.36	188	483214	40.00	ppm	-0.05
83) Chrysene-d12	13.47	240	496817	40.00	ppm	-0.05
91) Perylene-d12	16.50	264	436934	40.00	ppm	-0.04
101) 1,4-Dichlorobenzene-d4b	4.38	152	112814	40.00	ppm	-0.03
103) Phenanthrene-d10b	8.36	188	483214	40.00	ppm	-0.05
105) Chrysene-d12b	13.47	240	496817	40.00	ppm	-0.05
107) Naphthalene-d8b	5.30	136	422297	40.00	ppm	-0.03
109) Acenaphthene-d10b	6.62	164	269532	40.00	ppm	-0.04

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	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.00	172	0	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%	

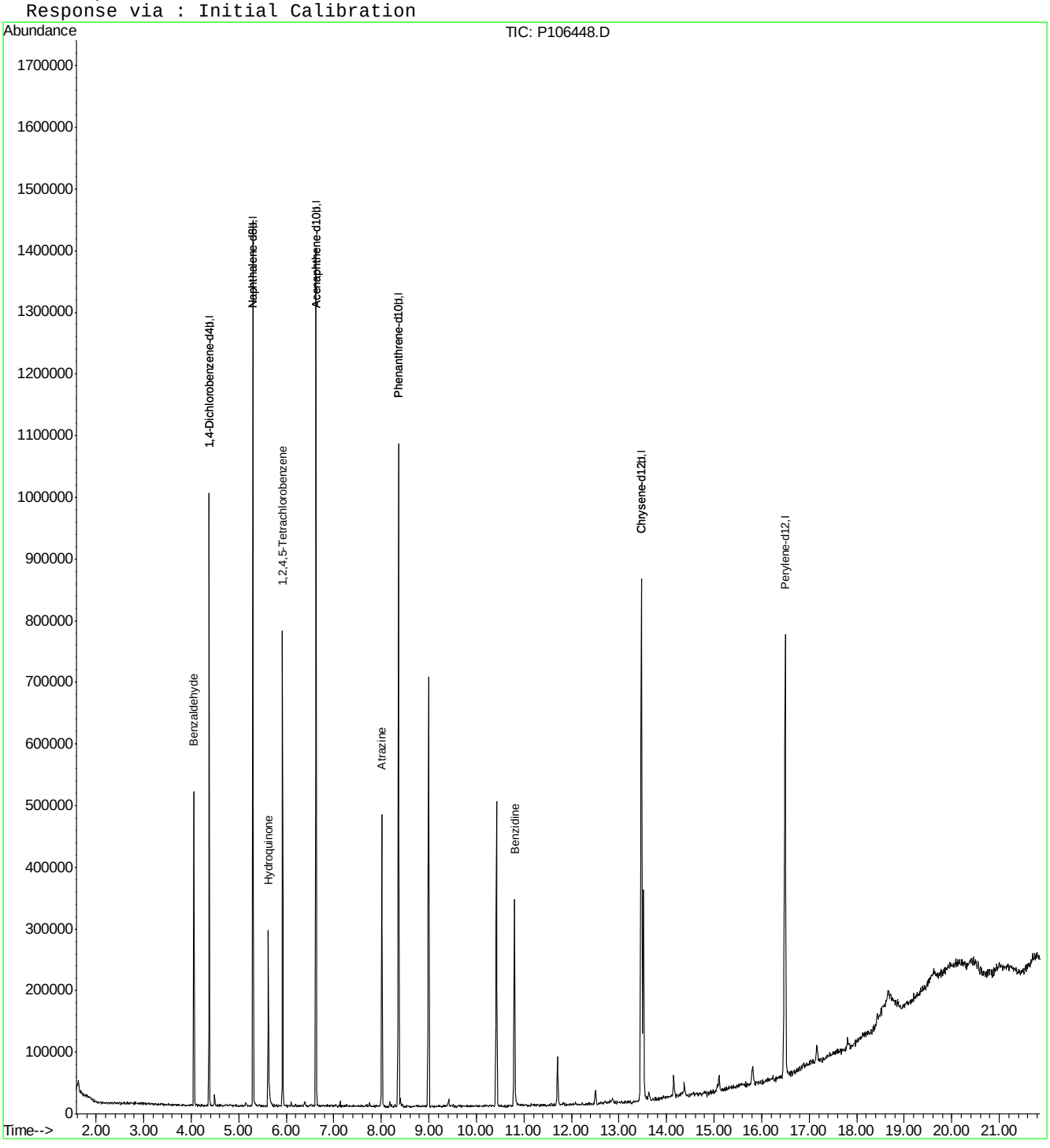
Target Compounds						Qvalue
102) Benzaldehyde	4.05	105	79414	27.41	ppm #	80
104) Atrazine	8.01	200	63812	29.14	ppm	88
106) Benzidine	10.80	184	182725	28.02	ppm	98
108) Hydroquinone	5.62	110	108930	29.55	ppm	80
110) 1,2,4,5-Tetrachlorobenzene	5.92	216	94617	23.48	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
P106448.D MP4681.M Fri Jul 29 12:38:29 2016

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\EP4706\P106448.D Vial: 3
Acq On : 29 Jul 2016 9:49 am Operator: brittanp
Sample : cc4682-25 Inst : MSP
Misc : op95516,ep4706 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 29 12:38 2016 Quant Results File: MP4681.RES

Method : C:\MSDCHEM\1\METHODS\MP4681.M (RTE Integrator)
Title : Semi Volatile Extractables by GC/MS
Last Update : Fri Jul 29 12:21:50 2016
Response via : Initial Calibration



SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2975

Print Analyst Name: Ashley M Dyer

Date: 7/14/2016

Analyst Signature: AMD

Columns: Rtx-5Sil ms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975Sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-89	DFTPP	50 ppm
SV161935-04	SIM Internal	400 ppm
1630139	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: [illegible]

Date: 7-18-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M62949	DFTPP				1					OK	930AM
	62950	IC2975-.2		BNASIM	W	2					OK	SV161935-60C
	62951	-.1				3					OK	SV161935-60D
	62952	-.05				4					OK	SV161935-60E
	62953	-.02				5					OK	SV161935-60F
	62954	-.01				6					OK	SV161935-60G
	62955	-5				7					OK	SV161935-60A
	62956	-2.5				8					OK	SV161935-60B
	62957	IC2975-1				9					OK	SV161935-100A
	62958	IC2975-.5				10					OK	SV161935-100B
	62959	CV2975-1.0		BN	W	11					not using	1,4Dioxane 0916177-06
	62960	-1.0		Acid.	W	12					not using	acids SV161935-53 reinstall. 408PM.
												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.

151

Form: OR015-07
Rev. Date: 1/19/16

7.7.1

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2976

Print Analyst Name: ASHKY MDyk

Date: 7/14/2016

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16193589	DFTPP	50 ng
SV16193501	SIM std. internal	100 ppm
163039	DCM (Fisher)	—

Columns: 12x154 in x 3.2 mm x 25 mm x 5 µm

Method 8270D/625

Initial Cal. Method M3M2975SIM

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: [illegible]

Date: 7-18-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M62961	DFTPP				1					OK	504PM
	62962	ICV29751.0		Acid 2nd	W	2					OK	SV16193576
	62963	-1.0		BN 2nd	W	3					OK	OP16177012
												AVC

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.

153

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC24816

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M3000

Print Analyst Name: Shanice Grant

Analyst Signature: S G

Date: 7/29/16

Columns: Rx1Sil MS 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975sim

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 162935-89	dftpp	50µg
SV 16A935100B	sim std .5	0.5µg
SV 16A935115	sim internal	400ppm
162489	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: AMO

Date: 8/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	BM63326	dftpp				1					OK	834AM.
	63327	CC2975-5		BNAsim	N	2					OK	
	63328	OP95904 8784 -MB1 SG	95878	B8270	W	3			✓	✓	OK	
	63329	-BS1 2				4			✓	✓	OK	
	63330	OP95878 904A -MB1 SG	95904	B8270		5			✓	✓	OK	
	63331	-BS1 2				6			✓	✓	OK	
	63332	OP95904a-MS				7			✓	✓	OK	
	63333	-MSD				8			✓	✓	OK	
	63334	JC24816-2		BSIM14DIOX NAP		9			✓	✓	RR	RR to confirm 1,4DIOXNAP
	63335	-3				10			✓	✓	OK	run by 8270
	63336	OP95878-MS	95878	B8270		11			✓	✓	OK	
	63337	-MSD				12			✓	✓	OK	
	63338	JC24684-1 50 SG		BSIMBANTH BAPYRN		13			✓	✓	ok	
	63339	-2 ~~3~~				14			✓	✓	ok	
	63340	JC24650-1 84 SG		BSIMBANTH		15			✓	✓	ok	
	63341	3 ~~2~~				16			✓	✓	ok	
	63342	JC24650-3		BSIMBANTH BAPYRN		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 E3M3000

Print Analyst Name: Shanice Grant

Analyst Signature: SG

Date: 7/29/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 21	

Columns: Rxi5ssilms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975 sim

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: AMQ

Date: 8/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M63343	JC246504	95878	BSIMBANTH BAPYRD	W	18			✓	✓	OK	737PM
	63344	op95661mbl	95661	AB8270	W	19			✓	✓	OK	rerun after 3M63338
	63345	-bs12				20			✓	✓	OK	↓
	63346	JC242536		IADIOX		21			✓	✓	OK	

AQ

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 E3M3004

Print Analyst Name: Shanice Grant

Analyst Signature: SG

Date: 8/2/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 16193589	dftpp	50ppm
SV 161935	sim std	0.5
SV 16193511 5	sim int mix	400ppm
163582	DCM (fisher)	—

Columns: Rtx5sil ms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975sim

Injection Volume: 1.0 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: AMO

Date: 8-2-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M63387	dftpp				1					not using	
	63388	CC2975-.5				2					↓	blk split NG / reinstall beam
	63389	DFTPP				1					not using	abundances ↑ / rerun
	63390	DFTPP				1					ok	1056AM
	63391	CC2975-.5				2					ok	
	63392	OP94535 OP94535-1834	94535			3			✓	✓	ok	
												continued on next page

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

SEMI-VOLATILE by GCMS ANALYSIS LOG

Batch ID E3M3004

Print Analyst Name: Ashley Mdy

Date: 8/2/2016

Analyst Signature: AMO

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 33	

Columns: RtX5SilMS 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975cim

Injection Volume: mL

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: 8-2-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M63393	op95939-mb1	95939-1	AB8270	W	4			✓	✓	OK	
	63394	-bs12				5					rerun	moved to 3P.
	63395	JC24978-1		1:40 10x hap		6			✓	✓	OK	
	63396	-2				7			✓	✓	OK	
	63397	-3				8			✓	✓	OK	
	63398	-4				9			✓	✓	OK	
	63399	-5				10			✓	✓	OK	3:16PM
												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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M3006

Print Analyst Name: Shanice Grant

Analyst Signature: SG

Date: 08/03/2016

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 16193589	dftpp	50µg
SV 16193510 0B	sim std.	0.5
SV 16193511 5	sim internal	400 ppm
162489	DCM (Fisher)	—

Columns: Rtx-5ms 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M3M2975 sim

Injection Volume: 1.0 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: AMC

Date: 8/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M63416	dftpp				1					not using	51,197
	63417	dftpp				1						
	63418	cc2975-.5				2						reinstall
	63419	dftpp				1						ions at rtenn
	63420	dftpp				1					not using	retine
	63421	DFTPP				1						1047AM Reptailing
	63422	DFTPP				1					OK	1056AM
	63423	CC2975-.5		BLASim	W	2					OK	
	63424	JC23898-1R	95546-1	Bsimpah	W	3			✓	✓	OK	
	63425	-4R				4			✓	✓	OK	
	63426	-5R				5			✓	✓	OK	
	63427	-6R				6			✓	✓	OK	
	63428	-7R				7			✓	✓	OK	
	63429	-8R				8			✓	✓	OK	
	63430	JC24349-32R	95878-1	Bsimpah	W	9			✓	✓	OK	unby 82701
	63431	JC24693-2		BsimN5+		10			✓	✓	OK	
	63432	-3		1,4DIOX		11			✓	✓	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: E3M3006

Print Analyst Name: Ashley Mayo

Analyst Signature: AMO

Date: 8/3/2016.

Columns: Rtx5sil ms30mx.25mmx.25µm

Method: 8270D/625

Initial Cal. Method: M3M2925sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 39	

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: 8/5/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M63433	JC24693-10	95875-1	BSIMNJ+ 1,4DIOX	W	12			✓	✓	OK	
	63434	-11				13			✓	✓	OK	
	63435	JC24816-1	95939-1	1,4DIOX top	W	14			✓	✓	OK	ran after 3M63431
	63436	JC243739	95771-1	Simpan	W	15			✓	✓	OK	ran after 3M63432
	63437	JC24464-1		BSIMNJ 1,4DIOX		16			✓	✓	OK	
	63438	-2				17			✓	✓	OK	
	63439	JC24577-8	95856	BSIM NJ, 1,4 DIOX	W	18			✓	✓	OK	
	63440	JC24408-3	95807	QC link	S	19			✓			
	63441	JC24790-4	95909	BSIMNJ, 1,4 DIOX	W	20			✓	✓	OK	
	63442	-5				21			✓	✓	OK	9:44pm
												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 JC24816

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P 2503

Print Analyst Name: Hank Chao

Analyst Signature: HC

Date: 7/6/16

Columns: Rtx-5Sil ms 30m x .25mm x .25

Method 8270D/625

Initial Cal. Method M3P2503SIM

Injection Volume: 1.0µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV515791	DFTPP	50ppm
SV16A3594	SIM internal	400ppm
163B9	DCMFshed	—

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

7.7.6

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P2531

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 4/29/16

Columns: Rxi 5Si/ms 30m x .25 mm x .25 µm

Method 8270D/625

Initial Cal. Method M3P2503SIM

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SMM-PB5-89	DFTPP	50ppm
-100	SIMStd	0.5ppm
-115	SIMIS	400ppm
63582	DCM (FS/DC)	—

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: AMC

Date: 8-3-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3P55368	DFTPP				1					OK	10:07pm
	55369	CC2503-0.5				2					OK	
	55370	OP95904MB1		BSM8270		3			✓	✓	OK	
	55371	JC24816-2		1410DX1Map		4			✓	✓	OK	12:26am

AMC

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.

87

Form: OR015-07

Rev. Date: 1/19/16

7.2.7

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P2534

Print Analyst Name: Ashley Updyke

Date: 8/2/2016

Analyst Signature: AMO

Columns: Rx1Fsil ms30m×25mm×25µL

Method 8270D/625

Initial Cal. Method M3P2503sim

Injection Volume: µL

Standard Data

Lot #	Description	Conc.

Standard Data

	Lot #	Description	Conc.
SV	16193589	dft pp	50 µg
SV	16193510A	sim std	1 µg
SV	16193511S	sim internal	400 µg
	162989	DCM (FSDC)	—

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: 8-3-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3P55400	DFTPP			W	1					OK	855AM
	55401	CC2503-1 CC2956		BNAsim	W	2					OK	
	55402	JC24258-1	95661	ABSIMNJ + 14 D10X	W	3			✓	✓	OK	
	55403A	-3				4			✓	✓	OK	from 00 A-file instrument shut down
	55404	-4				5			✓	✓	OK	
	55405	-5 ~~-6~~				6			✓	✓	OK	
	55406	JC24230-8				7			✓		RR	cannot report hits.
	55407	-10				8			✓	✓	OK	
	55408	OP95661A-MS		AB8270 sim		9			✓	✓	OK	
	55409	-MSD				10			✓	✓	OK	
	55410	OP95821A-MB1	95821	AB8270	W	11			✓	✓	OK	
	55411	-BS12				12			✓	✓	OK	
	55412	-MS				13			✓	✓	OK	
	55413	-MSD				14			✓	✓	OK	
	55414	JC24549-20		ABSIMNJ + 14 D10X		15			✓	✓	OK	
	55415	-21				16			✓	✓	OK	
	55416	-22				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.

95

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P2534

Print Analyst Name: Shanice Grant

Analyst Signature: SG

Date: 8-2-16

Columns: Rxi5silms 30m×.25mm×.25µm

Method 8270D | 625

Initial Cal. Method M3P2503sim

Injection Volume: 1.0 µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 95	

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: AMM Date: 8-3-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3P55417	JC24549-23	95821	AB8270simMJ +14D10X	W	18			✓	✓	RR	instrumental carryover 8:35PM
	55418	JC24563-1				19			✓	✓	ok	
	55419	JC24606-1				20					Not using	} cont of Tune, RR 9:07
	55420	-2				21					↓	
	55421	OP95939MB	95939	AB8270	W	22			✓	✓	OK	run before 55407
	55422	-BS12				23			✓	✓	OK	hexbutadiene ↓ RR to confirm failure
	55423	JC24978-6		1,4DIOX+ nap.		24			✓	✓	OK	

8/3/16

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.

97

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3P2546

Print Analyst Name: Ashley M Dye

Date: 8/9/2016

Analyst Signature: AMD

Columns: Rtx5sil ms 30m x 0.25mm x 0.25µm

Method 8270D/625

Initial Cal. Method M3P2503sim

Injection Volume: 1µL

Standard Data

Lot#	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16193559	DFTPP	50ng
SV16193510	BSim Std.	5ppm
SV16193515	0ms Std.	400ppm
163582	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: AMD

Date: 8-10-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3P55585	DFTPP				1					OK	226PM.
	55586	CC2503-5		BU7sim	W	2					OK	
	55587	0096153-mb1	96153-1	AB8270	W	3			✓	✓	OK	
	55588	JC25340-1		Bsim/ADD	X	4			✓	✓	OK	
	55589	JC25341-1		2mnap		5			✓	✓	OK	
	55590	-2				6			✓	✓	OK	
	55591	0095939-ms	95939-1	AB8270	W	7			✓	✓	OK	ran after 3S5587
	55592	-msd				8			✓	✓	OK	↓
	55593	0096072-mb1	96072-1	AB8270	W	9			✓	✓	OK	ran after 3P55587
												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.

131

Form: OR015-07
Rev. Date: 1/19/16

7.7.9

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EP4681

Print Analyst Name: Brittany Piercy

Analyst Signature: BP

Date: 07/11/2016

Columns: ZB-5MS® 30m x .25mm x .25µm

Method: 8270D/1625

Initial Cal. Method: MP4667 81

Injection Volume: 1.0µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1619358 9	DFTPP	50ppm
CM-5732	Internal Std.	4000ppm
1683536	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: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	P105964	DFTPP			W	1					not using	51, 69↑ 442, 443↓
	105965	DFTPP			W	1						51, 127↑ 442, 443↓ retune IS Nin
	105966	DFTPP			W	1						442↓ retune
	105967	DFTPP			W	1					ok	837AM.
	105968	CC466750		BVA	W	2					not using	recalibrate
	105969	ICC466150			W	3					ok	SV1619351 02C
	105970	IC4681-100			W	4					ok	
	105971	IC4681-80			W	5					ok	
	105972A	IC4681-25			W	6					ok	rerun as "A" file. normal
	105973	IC4681-10			W	7					ok	
	105974	IC4681-5			W	8					ok	
	105975	IC4681-2			W	9					ok	
	105976	IC4681-1			W	10					ok	
												BP 7/11/16

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

7.7.10

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4682

Print Analyst Name: Brittany Piercy

Date: 07/11/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SM6193589	DFTPP	50ppm
CM-5732	Internal Std.	4000ppm
163634	DCM (Fisher)	—

Columns: ZB-5MS® 30m×.25mm×.25µm

Method 8270D/625

Initial Cal. Method MP4681

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: EQ Date: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	P105977	DFTPP			W	1					OK	3:24pm
	105978	IC4682-100		TCL42	W	2					OK	SV161935-3A
	105979	IC4682-80				3					OK	-3B
	105980	IC4682-50				4					OK	-32K
	105981	IC4682-25				5					OK	-3D
	105982	IC4682-10				6					OK	-3E
	105983	IC4682-5				7					OK	-3G
	105984	IC4682-2				8					OK	-3H
	105985	IC4682-1				9					OK	-3I
	105986	ICV4681-50		Acids		10					OK	-98
	105987	ICV4681-50		Aniline spike		11					OK	-86
	105988	ICV4681-50 / ICV4682 50		BN1		12					OK	-75
	105989	ICV4681-50		BN2		13					RR	SV151829-116 RR41L
	105990	ICV4681-50		ABN surr		14					OK	OP161712136
	105991	ICV4681-50		Benzidine 3rd		15					OK	SV151827-38F
	105992	ICV4681-50		HQ		16					OK	-98A 1040PM
		AW 7/12/16										AW

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

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E P4683

Print Analyst Name: Ashley Mayo

Date: 7/12/2016

Analyst Signature: AMO

Columns: 7B5MS @30m x 5mm x 5µm

Method 8270D/625

Initial Cal. Method MP4681

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SU15187791	DFTPP	50ppm
CW5732	Internal Std.	4000ppm
1B3139	DCM Extract	

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: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	P105993	DFTPP				1					not using	442 ↓ reinjected
	105994	DFTPP				1					↓	2APM.
	105995	~~CC4681-50~~ ICV		BN2 2nd	W	2					RR	41 ↓ reinstall SU16193596
	105996	DFTPP Amo 7/12/16				1					not using	ion sat reinj
	105997	DFTPP				1					OK	419PM
	105998	ICV4681-50		BN2nd	W	2					OK	#99 #13 decaine ↓ 7/12 Dimb ↓ SU15829116.
												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.

51

Form: OR015-07
Rev. Date: 1/19/16

7.7.12

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4706

Print Analyst Name: Ashley Mdyk

Date: 7/29/2016

Analyst Signature: AMO

Columns: ZB-5MS (1) 30m x 0.25mm x 0.25µm

Method 8270D/625

Initial Cal. Method MP4681

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1619358-9	DFTPP	50ppm
-108D	BNA	25ppm
-4N	TCLHD	25ppm
CM-5782	Internal Std.	4000ppm
162489	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: 8-1-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	P106446	DFTPP				1					OK	857 AM.
	106447	CC4681-25		BNA	W	2					OK	59 ↑ 41.48 ↓ 52
	106448	CC4681-25 ~~CC4681~~ BP 7/29/16 @		TCLHD	W	3					OK	
	106449	BNA-verf. 1ppm			W	4					OK	NO #48 SV1619358-65E
	106450	OP95904-MB1	95904-1	AB8270	W	5			/	/	OK	
	106451	-BS1				6			/	/	OK	No pyridine
R	106452	JC24783-2A	95893-1	ABTCL20+	S	7	20				NOT RUN	Moved +2P Cut from Seq.
	106453	JC24769-7	95904-1	BPah	W	8			/	/	OK	
	106454	JC24784-2		B2mnap		9			/	/	OK	
	106455	-1				10			/	/	OK	
	106456	-3				11			/	/	OK	
	106457	-5				12			/	/	OK	
	106458	-6				13			/	/	OK	
	106459	-7				14			/	/	OK	
	106460	-8				15			/	/	OK	
	106461	-9				16			/	/	OK	
	106462	JC24784-11				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.

127

Form: OR015-07
Rev. Date: 1/19/16

7.7.13

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EP4706

Print Analyst Name: Brittany Piercy

Date: 07/29/2016

Analyst Signature: B.P.

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 127	

Columns: ZB-5MS® 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MP4681

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: dM

Date: 8-1-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	P106463	OP95904-MS	95904-1	AB8270	W	18			/	/	ok	
	106464	-MSD				19			/	/	ok	7:51pm
R	106465	OP95821-MB1	95821-1	AB8270+	W	20			/	/	ok	used to confirm Hits Ran After "P106463"
R	106466	JC24606-2		ABNJTCL20+		21		+	/	/	ok	
R	106467	JC24549-23		ABNJTCL20+		22		+	/	/	ok	
	106468	JC24816-3	95904A1	BSim 1,4 DIOX	W	23			✓	✓	ok	Ran After "P106457"
	106469	1A dioxane d8 Standard Ana 7/29/16				24	1:20					orig. 2000ppm → 100ppm
												BP 08/01/2016

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

ABN Aqueous Extraction Logbook

LOGBOOK ID: 6-1787

Date Started: 7/28/16 Time Started: 4:00pm
Date Finished: 7/28/16 Time Finished: 9:00pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other_____ 3510C SIM_____
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 95904 RACK# D-4

Extracted by: SD, KM, GM
Concentrated by: SD, YB
Vialed by: SD
Relinquished by:
Accepted by:
Supervisor Review: 7/29/16

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	3/7	75/75	-0.8/-0.1	74/75	N/A
Waterbath Chiller (GPM)	F-2	1	—	—	2
NEVAP (32-38°C; LPM)	2	36.1	+0.1	36	11

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	0916177042	50	1

WITNESS SIGN: GM SPIKE SIGN: SD

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	SV1619384b	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	SV1619351H	50	1
Base #2	SV1619351G	50	1
Anilines	SV1619351I	50	1
BSIM	0916177041	1	1

WITNESS SIGN: GM SPIKE SIGN: SD

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	163582	Fisher	2x60

REAGENT	LOT #	BRAND
NaOH	157991	Fisher
H2SO4	2603636	Recon
Sodium Sulfate	157977	Fisher
Glass Wool	05R26	Lab
Filter Paper		
pH strips		

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked
BS13	1ml	Skiar			

WITNESS SIGN: SPIKE SIGN:
Manager/Supervisor/Team Lead Approval:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) <2 H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H2O	1000	1	5	Clear	1		
	BS1			DI H2O	1000	1	5	yellow	1		
	JC247843 MS		3	brown	450	1	5	yellow	1		
	MSD		3	brown	450	1	5	yellow	1		
	JC24816-1 BS	12.5/M		DI H2O	1000	1	5	~~Clear~~	1		*
	JC24816-1 MS		1	brown	450	1	5	~~Clear~~	1		*
	MSD		1	brown	450	1	5	~~Clear~~	1		*
1	JC24816-1		~~2~~	~~brown~~	~~910~~	~~1~~	~~5~~				O
2	-2		2	brown	900	1	5	Clear	1		
3	-3		2	l. yellow	920	1	5	Clear	1		
4	JC24769-1		4	clear	870	1	5	l. yellow	1		
5	JC24784-1		2	orange	990	1	5	l. yellow	1		
6	-2		2	orange	990	1	5	l. yellow	1		
7	-3		2	orange	870	1	5	Clear	1		
8	-4										
9	-5		1	yellow	990	1	5	yellow	1		
10	-6		2	l. yellow	1000	1	5	l. yellow	1		
11	-7		1	yellow	990	1	5	yellow	1		
12	-8		1	clear	990	1	5	l. yellow	1		
13	-9		1	clear	920	1	5	Clear	1		
14	~~JC24491-1~~	~~Rx~~	1	orange	990	1	5				
15	JC24784-11		2	l. yellow	970	1	5	l. yellow	1		
16	~~BS13~~	SKIAR		DI H2O	1000	1	5				
17	SD 7/28/16										
18	BSD12	SIM		DI H2O	1000	1	5	l. yellow	1		
19											
20											

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason: Rx-Low BS

Spiking:

Weights/Volumes:

Required MS/MSD: JC24784-3 (MS/MSD)

Final Volume:

Other: SP 7/28/16 no skinner spike

CL 7/28/16

Rx due 7/28

Comments: okay to split MS/MSD & SIM MS/MSD, not enough bottles
* Color of BS12 is l. yellow
* Color of MSA/MSDA is l. yellow
O: JC24816-1 sample extract went dry, no bottles to rx. BSD12 extracted to replace MS/MSD SIM

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

7

LOGBOOK ID: 6-1744

ABN Aqueous Extraction Logbook

Date Started: 7/30/16 Time Started: 9:15am
Date Finished: 7/30/16 Time Finished: 4:15pm

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 95939 RACK# 816

Extracted by: AD, ADC
Concentrated by: AD, ADC
Vialed by: AD, ADC
Relinquished by: ADC
Accepted by:
Supervisor Review: DAT 7/30/16

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) <2 H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H_2O	1000	1	4	clear	1		
	BS1			DI H_2O	1000	1	4	yellow	1		
	JC24878-1 MS		1	l. brown	495	1	4	yellow	1		
	MSD		1	l. brown	495	1	4	yellow	1		
	BS	12 SIM		DI H_2O	1000	1	4	clear	1		
	JC24878-2 MS		1	yellow	500	1	4	l. yellow	1		
	MSD		1	yellow	500	1	4	l. yellow	1		
1	JC24836-1	ABN	2	l. yellow	1000	1	4	l. yellow	1		
2	JC24878-1		2	l. brown	980	1	4	yellow	1		
3	-2		2	yellow	990	1	4	l. yellow	1		
4	-4		2	brown	1000	1	4	yellow	1		
5	-7		1	yellow	990	1	4	l. yellow	1		
6	-8		2	yellow	990	1	4	yellow	1		
7	-9		2	clear	1000	1	4	clear	1		
8	-10		1	clear	980	1	4	clear	1		
9	JC13380-80		1	clear	100	1	4	clear	1		
10	~~JC24816-1~~										
11	JC24816-1		3	brown	900	NA	4	clear	1		⊛
12	JC24978-1		1	l. yellow	910	1	4	clear	1		
13	-2		1	l. yellow	950	1	4	clear	1		
14	-3		1	l. yellow	930	1	4	clear	1		
15	-4		1	l. yellow	930	1	4	clear	1		
16	-5		1	l. yellow	980	1	4	clear	1		
17	-6		1	clear	950	1	4	clear	1		
18											
19											
20											

1 ISTA *

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other:
* Bottle is HCL preserved, check pH!

Comments: Okay to split MS/MSD & SIM MS/MSD, not enough bottles
~~* Sample depleted~~
⊛ HCL preserved

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	3,7	74.5, 73.9	-0.8, -0.1	73, 73	NA
Waterbath Chiller (GPM)	F2	2	—	—	1.7
NEVAP (32-38°C; LPM)	2	35.9	+0.1	36	10

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16177050	50	1

WITNESS SIGN: RG SPIKE SIGN: AD

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	161935-106	50	Acid: 1
Acid (for SIM)			A(SIM): 0.1
Base #1	161935-114	50	1
Base #2	161935-127	50	1
Anilines	161935-111	50	1
BSIM	16177041	1	1

WITNESS SIGN: RG SPIKE SIGN: AD

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	183582	Fisher	660

REAGENT	LOT #	BRAND
NaOH	157991	Fisher
H2SO4	2603B36	Pica
Sodium Sulfate	148420	Fisher
Glass Wool	058926	Lab
Filter Paper		
pH strips	232515	Hydrion

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

[redacted]