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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMS-ICM, Humacao, PR

BM16.00.09/ 02i

SGS Accutest Job Number: JC23654

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

Report to:

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

ATTN: Terry Taylor

Total number of pages in report: 532

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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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: JC23654

BMS-ICM, Humacao, PR
Project No: BM16.00.09/ 02i

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JC23654-1	07/06/16	10:20	TT	07/08/16	AQ	Ground Water	OSGP6-GWS
JC23654-2	07/06/16	10:45	TT	07/08/16	AQ	Ground Water	OSGP6D-GWS
JC23654-3	07/06/16	13:40	TT	07/08/16	AQ	Ground Water	OSGP8-GWD
JC23654-4	07/07/16	10:00	TT	07/08/16	AQ	Ground Water	OSGP8-GWS
JC23654-4D	07/07/16	11:00	TT	07/08/16	AQ	Water Dup/MSD	OSGP8MSD-GWS
JC23654-4S	07/07/16	10:30	TT	07/08/16	AQ	Water Matrix Spike	OSGP8MS-GWS
JC23654-5	07/07/16	13:30	TT	07/08/16	AQ	Ground Water	OSGP1-GWD

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JC23654
Site:	BMS-ICM, Humacao, PR	**Report Date**	7/15/2016 12:48:35 P

On 07/08/2016, 5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 5.9 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of JC23654 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:** OP95394A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC23595-2QMS, JC23595-2QMSD were used as the QC samples indicated.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix: AQ **Batch ID:** OP95434A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC23654-4MS, JC23654-4MSD were used as the QC samples indicated.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for 1,4-Dioxane are outside control limits. Outside control limits due to high level in sample relative to spike amount.

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: JC23654
Account: Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Collected: 07/06/16 thru 07/07/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC23654-1	**OSGP6-GWS**					
1,4-Dioxane		40.7	1.1	0.055	ug/l	SW846 8270D BY SIM
JC23654-2	**OSGP6D-GWS**					
1,4-Dioxane		40.0	1.1	0.054	ug/l	SW846 8270D BY SIM
JC23654-3	**OSGP8-GWD**					
1,4-Dioxane		29.5	1.1	0.054	ug/l	SW846 8270D BY SIM
JC23654-4	**OSGP8-GWS**					
1,4-Dioxane		121	5.5	0.27	ug/l	SW846 8270D BY SIM
JC23654-5	**OSGP1-GWD**					
1,4-Dioxane		5.11	0.11	0.054	ug/l	SW846 8270D BY SIM

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP6-GWS		
Lab Sample ID:	JC23654-1	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/08/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMS-ICM, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M126025.D	1	07/11/16	AD	07/08/16	OP95394A	EM5342
Run #2	3M62896.D	1	07/11/16	AD	07/08/16	OP95394A	E3M2971

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	0.11	0.033	ug/l	
123-91-1	1,4-Dioxane	40.7	1.1	0.055	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%	69%	24-125%
321-60-8	2-Fluorobiphenyl	63%	73%	19-127%
1718-51-0	Terphenyl-d14	64%	83%	10-119%

(a) Result is from Run# 2

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

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP6D-GWS		
Lab Sample ID:	JC23654-2	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/08/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMS-ICM, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M126026.D	1	07/11/16	AD	07/08/16	OP95394A	EM5342
Run #2	3M62897.D	1	07/11/16	AD	07/08/16	OP95394A	E3M2971

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	40.0	1.1	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%	69%	24-125%
321-60-8	2-Fluorobiphenyl	62%	71%	19-127%
1718-51-0	Terphenyl-d14	67%	86%	10-119%

(a) Result is from Run# 2

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

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP8-GWD		
Lab Sample ID:	JC23654-3	**Date Sampled:**	07/06/16
Matrix:	AQ - Ground Water	**Date Received:**	07/08/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMS-ICM, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M126027.D	1	07/11/16	AD	07/08/16	OP95394A	EM5342
Run #2	3M62898.D	1	07/11/16	AD	07/08/16	OP95394A	E3M2971

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND [a]	0.11	0.033	ug/l	
123-91-1	1,4-Dioxane	29.5	1.1	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%	71%	24-125%
321-60-8	2-Fluorobiphenyl	61%	71%	19-127%
1718-51-0	Terphenyl-d14	59%	76%	10-119%

(a) Result is from Run# 2

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

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP8-GWS		
Lab Sample ID:	JC23654-4	**Date Sampled:**	07/07/16
Matrix:	AQ - Ground Water	**Date Received:**	07/08/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMS-ICM, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M62907.D	1	07/11/16	AD	07/11/16	OP95434A	E3M2971
Run #2	5P29604.D	5	07/12/16	RL	07/11/16	OP95434A	E5P1510

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	121 [a]	5.5	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%	95%	24-125%
321-60-8	2-Fluorobiphenyl	79%	95%	19-127%
1718-51-0	Terphenyl-d14	81%	78%	10-119%

(a) Result is from Run# 2

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

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP1-GWD		
Lab Sample ID:	JC23654-5	**Date Sampled:**	07/07/16
Matrix:	AQ - Ground Water	**Date Received:**	07/08/16
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	BMS-ICM, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M62900.D	1	07/11/16	AD	07/08/16	OP95394A	E3M2971
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
91-20-3	Naphthalene	ND	0.11	0.032	ug/l	
123-91-1	1,4-Dioxane	5.11	0.11	0.054	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		24-125%
321-60-8	2-Fluorobiphenyl	72%		19-127%
1718-51-0	Terphenyl-d14	76%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

GW

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

801219535927

Bottle Order Control # JC23654

Accutest Quote #

Accutest Job# Get from NJ

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): 1,4-Dioxane and Naphthalene via 8270D SIM

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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	1,4-Dioxane and Naphthalene via 8270D SIM	LAB USE ONLY
1	OSGP 6 - GWS		7/6/16	1020	TT	GW	2					2				X	
2	OSGP 6 D - GWS		7/6/16	1045	TT	GW	2					2				X	EB
3	OSGP 8 - GWD		7/6/16	1340	TT	GW	2					2				X	
4	OSGP 8 - GWS		7/7/16	1000	TT	GW	2					2				X	
	OSGP 8MS - GWS		7/7/16	1030	TT	GW	2					2				X	
	OSGP 8MSD - GWS		7/7/16	1100	TT	GW	2					2				X	
5	OSGP1 ~GWD		7/7/16	1330	TT	GW	2					2				X	
						EB											

Turnaround Time (Business days)

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

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

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 2A-5

LABEL VERIFICATION TW

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	7/7/16 1700	1 Fed EX	2 Fed	7/8/16 0930	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 367, 368	[x] Intact / [ ] Not intact	Preserved where applicable [ ]

On Ice [x] Cooler Temp. 5.0, 4.9°C TP

JC23654: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: JC23654 **Client:** **Project:**

Date / Time Received: 7/8/2016 9:30:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (5.0); Cooler 2: (4.9);

Cooler Temps (Corrected) °C: Cooler 1: (5.9); Cooler 2: (5.8);

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:	2	

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

JC23654: Chain of Custody

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Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JC23654

BMS-ICM, Humacao, PR
Project No: BM16.00.09/ 02i

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JC23654-1	Collected: 06-JUL-16 10:20 By: TT		Received: 08-JUL-16 By: TH			
OSGP6-GWS						
JC23654-1	SW846 8270D BY SIM	11-JUL-16 11:33	AD	08-JUL-16	AC	BSIM + NAP
JC23654-1	SW846 8270D BY SIM	11-JUL-16 17:13	AD	08-JUL-16	AC	B8270SIM14DIOX
JC23654-2	Collected: 06-JUL-16 10:45 By: TT		Received: 08-JUL-16 By: TH			
OSGP6D-GWS						
JC23654-2	SW846 8270D BY SIM	11-JUL-16 12:06	AD	08-JUL-16	AC	BSIM + NAP
JC23654-2	SW846 8270D BY SIM	11-JUL-16 17:42	AD	08-JUL-16	AC	B8270SIM14DIOX
JC23654-3	Collected: 06-JUL-16 13:40 By: TT		Received: 08-JUL-16 By: TH			
OSGP8-GWD						
JC23654-3	SW846 8270D BY SIM	11-JUL-16 12:38	AD	08-JUL-16	AC	BSIM + NAP
JC23654-3	SW846 8270D BY SIM	11-JUL-16 18:11	AD	08-JUL-16	AC	B8270SIM14DIOX
JC23654-4	Collected: 07-JUL-16 10:00 By: TT		Received: 08-JUL-16 By: TH			
OSGP8-GWS						
JC23654-4	SW846 8270D BY SIM	11-JUL-16 17:34	AD	11-JUL-16	NG	BSIM + NAP
JC23654-4	SW846 8270D BY SIM	12-JUL-16 18:33	RL	11-JUL-16	NG	B8270SIM14DIOX
JC23654-5	Collected: 07-JUL-16 13:30 By: TT		Received: 08-JUL-16 By: TH			
OSGP1-GWD						
JC23654-5	SW846 8270D BY SIM	11-JUL-16 13:44	AD	08-JUL-16	AC	B8270SIM14DIOX,BSIM + NAP

SGS Accutest Internal Chain of Custody

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Received: 07/08/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC23654-1.2	Secured Storage	Sahara Feliciano	07/08/16 14:22	Retrieve from Storage
JC23654-1.2	Sahara Feliciano	Secured Staging Area	07/08/16 14:22	Return to Storage
JC23654-1.2	Secured Staging Area	Ryan Fantasia	07/08/16 14:55	Retrieve from Storage
JC23654-1.2	Bruce Scholz		07/11/16 08:32	Depleted
Analyst unavailable for custody transfer.				
JC23654-1.2.1	Ryan Fantasia	Organics Prep	07/08/16 15:23	Extract from JC23654-1.2
JC23654-1.2.1	Organics Prep	Allan Chung-yew	07/08/16 23:24	Extract from JC23654-1.2
JC23654-1.2.1	Allan Chung-yew	Extract Storage	07/08/16 23:24	Return to Storage
JC23654-1.2.1	Extract Storage	Hank Chao	07/11/16 10:46	Retrieve from Storage
JC23654-1.2.1	Hank Chao	GCMS3M	07/11/16 10:46	Load on Instrument
JC23654-2.2	Secured Storage	Sahara Feliciano	07/08/16 14:22	Retrieve from Storage
JC23654-2.2	Sahara Feliciano	Secured Staging Area	07/08/16 14:22	Return to Storage
JC23654-2.2	Secured Staging Area	Ryan Fantasia	07/08/16 14:55	Retrieve from Storage
JC23654-2.2	Bruce Scholz		07/11/16 08:32	Depleted
Analyst unavailable for custody transfer.				
JC23654-2.2.1	Ryan Fantasia	Organics Prep	07/08/16 15:23	Extract from JC23654-2.2
JC23654-2.2.1	Organics Prep	Allan Chung-yew	07/08/16 23:24	Extract from JC23654-2.2
JC23654-2.2.1	Allan Chung-yew	Extract Storage	07/08/16 23:24	Return to Storage
JC23654-2.2.1	Extract Storage	Hank Chao	07/11/16 10:46	Retrieve from Storage
JC23654-2.2.1	Hank Chao	GCMS3M	07/11/16 10:46	Load on Instrument
JC23654-3.2	Secured Storage	Sahara Feliciano	07/08/16 14:22	Retrieve from Storage
JC23654-3.2	Sahara Feliciano	Secured Staging Area	07/08/16 14:22	Return to Storage
JC23654-3.2	Secured Staging Area	Ryan Fantasia	07/08/16 14:55	Retrieve from Storage
JC23654-3.2	Bruce Scholz		07/11/16 08:32	Depleted
Analyst unavailable for custody transfer.				
JC23654-3.2.1	Ryan Fantasia	Organics Prep	07/08/16 15:23	Extract from JC23654-3.2
JC23654-3.2.1	Organics Prep	Allan Chung-yew	07/08/16 23:24	Extract from JC23654-3.2
JC23654-3.2.1	Allan Chung-yew	Extract Storage	07/08/16 23:24	Return to Storage
JC23654-3.2.1	Extract Storage	Hank Chao	07/11/16 10:46	Retrieve from Storage
JC23654-3.2.1	Hank Chao	GCMS3M	07/11/16 10:46	Load on Instrument
JC23654-4.1	Secured Storage	Vikas Parikh	07/11/16 08:31	Retrieve from Storage
JC23654-4.1	Vikas Parikh		07/11/16 16:53	Depleted
JC23654-4.1.1	Vikas Parikh	Organics Prep	07/11/16 08:32	Extract from JC23654-4.1
JC23654-4.1.1	Organics Prep	Nicholas Goydish	07/11/16 14:24	Extract from JC23654-4.1
JC23654-4.1.1	Nicholas Goydish	Extract Storage	07/11/16 14:24	Return to Storage
JC23654-4.2	Secured Storage	Sahara Feliciano	07/08/16 14:22	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Received: 07/08/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JC23654-4.2	Sahara Feliciano	Secured Staging Area	07/08/16 14:22	Return to Storage
JC23654-4.2	Secured Staging Area	Ryan Fantasia	07/08/16 14:55	Retrieve from Storage
JC23654-4.2	Bruce Scholz		07/11/16 08:32	Depleted
Analyst unavailable for custody transfer.				
JC23654-4.2.1	Ryan Fantasia	Organics Prep	07/08/16 15:23	Extract from JC23654-4.2
JC23654-4.2.1	Organics Prep	Allan Chung-yew	07/08/16 23:24	Extract from JC23654-4.2
JC23654-4.2.1	Allan Chung-yew	Extract Storage	07/08/16 23:24	Return to Storage
JC23654-4.2.1	Extract Storage	Hank Chao	07/11/16 10:46	Retrieve from Storage
JC23654-4.2.1	Hank Chao	GCMS3M	07/11/16 10:46	Load on Instrument
JC23654-4.5	Secured Storage	Vikas Parikh	07/11/16 08:31	Retrieve from Storage
JC23654-4.5	Vikas Parikh		07/11/16 16:53	Depleted
JC23654-4.5.1	Vikas Parikh	Organics Prep	07/11/16 08:32	Extract from JC23654-4.5
JC23654-4.5.1	Organics Prep	Nicholas Goydish	07/11/16 14:24	Extract from JC23654-4.5
JC23654-4.5.1	Nicholas Goydish	Extract Storage	07/11/16 14:24	Return to Storage
JC23654-4.6	Secured Storage	Vikas Parikh	07/11/16 08:31	Retrieve from Storage
JC23654-4.6	Vikas Parikh		07/11/16 16:53	Depleted
JC23654-4.6.1	Vikas Parikh	Organics Prep	07/11/16 08:32	Extract from JC23654-4.6
JC23654-4.6.1	Organics Prep	Nicholas Goydish	07/11/16 14:24	Extract from JC23654-4.6
JC23654-4.6.1	Nicholas Goydish	Extract Storage	07/11/16 14:24	Return to Storage
JC23654-5.1	Secured Storage	Sahara Feliciano	07/08/16 14:22	Retrieve from Storage
JC23654-5.1	Sahara Feliciano	Secured Staging Area	07/08/16 14:22	Return to Storage
JC23654-5.1	Secured Staging Area	Ryan Fantasia	07/08/16 14:55	Retrieve from Storage
JC23654-5.1	Bruce Scholz		07/11/16 08:32	Depleted
Analyst unavailable for custody transfer.				
JC23654-5.1.1	Ryan Fantasia	Organics Prep	07/08/16 15:23	Extract from JC23654-5.1
JC23654-5.1.1	Organics Prep	Allan Chung-yew	07/08/16 23:24	Extract from JC23654-5.1
JC23654-5.1.1	Allan Chung-yew	Extract Storage	07/08/16 23:24	Return to Storage
JC23654-5.1.1	Extract Storage	Hank Chao	07/11/16 10:46	Retrieve from Storage
JC23654-5.1.1	Hank Chao	GCMS3M	07/11/16 10:46	Load on Instrument

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: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95394A-MB1	4M66746.D	1	07/09/16	AD	07/08/16	OP95394A	E4M3003

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

JC23654-1, JC23654-2, JC23654-3, JC23654-5

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

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	52%	14-81%
4165-62-2	Phenol-d5	36%	11-54%
118-79-6	2,4,6-Tribromophenol	87%	35-145%
4165-60-0	Nitrobenzene-d5	76%	24-125%
321-60-8	2-Fluorobiphenyl	54%	19-127%
1718-51-0	Terphenyl-d14	104%	10-119%

Method Blank Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95394A-MB1	3M62895.D	1	07/11/16	AD	07/08/16	OP95394A	E3M2971

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

JC23654-1, JC23654-2, JC23654-3, JC23654-5

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

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	47%	14-81%
4165-62-2	Phenol-d5	31%	11-54%
118-79-6	2,4,6-Tribromophenol	107%	35-145%
4165-60-0	Nitrobenzene-d5	71%	24-125%
321-60-8	2-Fluorobiphenyl	51%	19-127%
1718-51-0	Terphenyl-d14	108%	10-119%

Method Blank Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95394A-MB1	M126024.D	1	07/11/16	AD	07/08/16	OP95394A	EM5342

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

JC23654-1, JC23654-2, JC23654-3, JC23654-5

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

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	42%	14-81%
4165-62-2	Phenol-d5	30%	11-54%
118-79-6	2,4,6-Tribromophenol	81%	35-145%
4165-60-0	Nitrobenzene-d5	76%	24-125%
321-60-8	2-Fluorobiphenyl	41%	19-127%
1718-51-0	Terphenyl-d14	78%	10-119%

Method Blank Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95394A-MB1	4M66802.D	1	07/12/16	HC	07/08/16	OP95394A	E4M3006

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

JC23654-1, JC23654-2, JC23654-3, JC23654-5

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

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	51%	14-81%
4165-62-2	Phenol-d5	36%	11-54%
118-79-6	2,4,6-Tribromophenol	88%	35-145%
4165-60-0	Nitrobenzene-d5	77%	24-125%
321-60-8	2-Fluorobiphenyl	59%	19-127%
1718-51-0	Terphenyl-d14	110%	10-119%

Method Blank Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95434A-MB1	3M62903.D	1	07/11/16	AD	07/11/16	OP95434A	E3M2971

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

JC23654-4

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

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	74%	24-125%
321-60-8	2-Fluorobiphenyl	77%	19-127%
1718-51-0	Terphenyl-d14	114%	10-119%

Method Blank Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95434A-MB1	5P29603.D	1	07/12/16	RL	07/11/16	OP95434A	E5P1510

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

JC23654-4

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

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	84%	24-125%
321-60-8	2-Fluorobiphenyl	91%	19-127%
1718-51-0	Terphenyl-d14	98%	10-119%

Blank Spike Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95394A-BS12	4M66789.D	1	07/11/16	AD	07/08/16	OP95394A	E4M3004

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

JC23654-1, JC23654-2, JC23654-3, JC23654-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.472	47	40-119
123-91-1	1,4-Dioxane	1	0.356	36	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	51%	14-81%
4165-62-2	Phenol-d5	36%	11-54%
118-79-6	2,4,6-Tribromophenol	86%	35-145%
4165-60-0	Nitrobenzene-d5	69%	24-125%
321-60-8	2-Fluorobiphenyl	59%	19-127%
1718-51-0	Terphenyl-d14	109%	10-119%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95434A-BS12	3M62904.D	1	07/11/16	AD	07/11/16	OP95434A	E3M2971

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

JC23654-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-20-3	Naphthalene	1	0.846	85	40-119
123-91-1	1,4-Dioxane	1	0.360	36	20-160

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	90%	24-125%
321-60-8	2-Fluorobiphenyl	91%	19-127%
1718-51-0	Terphenyl-d14	115%	10-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95394A-MS	4M66803.D	1	07/12/16	HC	07/08/16	OP95394A	E4M3006
OP95394A-MSD	4M66804.D	1	07/12/16	HC	07/08/16	OP95394A	E4M3006
JC23595-2Q	4M66871.D	1	07/14/16	AD	07/08/16	OP95394A	E4M3009

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

JC23654-1, JC23654-2, JC23654-3, JC23654-5

CAS No.	Compound	JC23595-2Q 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	95.1	E	2.04	112	828* [a]	2.04	111	779* [a]	1	23-140/36
123-91-1	1,4-Dioxane	ND		2.04	0.832	41	2.04	0.708	35	16	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC23595-2Q	Limits
367-12-4	2-Fluorophenol	72%	73%	41%	14-81%
4165-62-2	Phenol-d5	61%* [b]	63%* [b]	30%	11-54%
118-79-6	2,4,6-Tribromophenol	92%	96%	73%	35-145%
4165-60-0	Nitrobenzene-d5	83%	88%	69%	24-125%
321-60-8	2-Fluorobiphenyl	89%	92%	74%	19-127%
1718-51-0	Terphenyl-d14	114%	110%	69%	10-119%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside of in house control limits, but within reasonable method recovery limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP95434A-MS	3M62905.D	1	07/11/16	AD	07/11/16	OP95434A	E3M2971
OP95434A-MSD	3M62906.D	1	07/11/16	AD	07/11/16	OP95434A	E3M2971
JC23654-4	3M62907.D	1	07/11/16	AD	07/11/16	OP95434A	E3M2971
JC23654-4	5P29604.D	5	07/12/16	RL	07/11/16	OP95434A	E5P1510

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

JC23654-4

CAS No.	Compound	JC23654-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
91-20-3	Naphthalene	ND		1.1	0.877	80	1.09	0.753	69	15	23-140/36
123-91-1	1,4-Dioxane	121 [b]		1.1	116	546* [a]	1.09	93.4	-1527* [a]	22	20-160/30

CAS No.	Surrogate Recoveries	MS	MSD	JC23654-4	JC23654-4	Limits
4165-60-0	Nitrobenzene-d5	85%	77%	76%	95%	24-125%
321-60-8	2-Fluorobiphenyl	88%	81%	79%	95%	19-127%
1718-51-0	Terphenyl-d14	102%	102%	81%	78%	10-119%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

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

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

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

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

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

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

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

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

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

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

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

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E3M2971-DFTPP
Lab File ID: 3M62883.D
Instrument ID: GCMS3M
Injection Date: 07/11/16
Injection Time: 08:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	110631	44.4		Pass
68	Less than 2.0% of mass 69	997	0.40	(0.88) [a]	Pass
69	Mass 69 relative abundance	113392	45.5		Pass
70	Less than 2.0% of mass 69	517	0.21	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	127413	51.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	249064	100.0		Pass
199	5.0 - 9.0% of mass 198	16420	6.59		Pass
275	10.0 - 30.0% of mass 198	57699	23.2		Pass
365	1.0 - 100.0% of mass 198	8815	3.54		Pass
441	Present, but less than mass 443	32426	13.0	(77.9) [b]	Pass
442	40.0 - 100.0% of mass 198	212539	85.3		Pass
443	17.0 - 23.0% of mass 442	41635	16.7	(19.6) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3M2971-CC2942	3M62884.D	07/11/16	09:10	00:13	Continuing cal 1.0
OP95361A-MB1	3M62885.D	07/11/16	09:55	00:58	Method Blank
ZZZZZZ	3M62886.D	07/11/16	10:27	01:30	(unrelated sample)
OP95394A-MB1	3M62895.D	07/11/16	11:00	02:03	Method Blank
JC23654-1	3M62896.D	07/11/16	11:33	02:36	OSGP6-GWS
JC23654-2	3M62897.D	07/11/16	12:06	03:09	OSGP6D-GWS
JC23654-3	3M62898.D	07/11/16	12:38	03:41	OSGP8-GWD
JC23654-5	3M62900.D	07/11/16	13:44	04:47	OSGP1-GWD
ZZZZZZ	3M62901.D	07/11/16	14:17	05:20	(unrelated sample)
ZZZZZZ	3M62902.D	07/11/16	14:50	05:53	(unrelated sample)
OP95434A-MB1	3M62903.D	07/11/16	15:23	06:26	Method Blank
OP95434A-BS12	3M62904.D	07/11/16	15:56	06:59	Blank Spike
OP95434A-MS	3M62905.D	07/11/16	16:28	07:31	Matrix Spike
OP95434A-MSD	3M62906.D	07/11/16	17:01	08:04	Matrix Spike Duplicate
JC23654-4	3M62907.D	07/11/16	17:34	08:37	OSGP8-GWS
ZZZZZZ	3M62887.D	07/11/16	18:07	09:10	(unrelated sample)
ZZZZZZ	3M62888.D	07/11/16	18:40	09:43	(unrelated sample)
ZZZZZZ	3M62889.D	07/11/16	19:13	10:16	(unrelated sample)
ZZZZZZ	3M62890.D	07/11/16	19:46	10:49	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample:	E3M2971-DFTPP	**Injection Date:**	07/11/16
Lab File ID:	3M62883.D	**Injection Time:**	08:57
Instrument ID:	GCMS3M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3M62891.D	07/11/16	20:18	11:21	(unrelated sample)
ZZZZZZ	3M62892.D	07/11/16	20:51	11:54	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

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

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

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

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

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

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

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

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

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M3003-CC2974	4M66741.D	07/09/16	12:23	00:10	Continuing cal 0.5
OP95328A-BS12	4M66743.D	07/09/16	13:26	01:13	Blank Spike
OP95328A-MB1	4M66742A.D	07/09/16	13:56	01:43	Method Blank
OP95328A-MS	4M66744.D	07/09/16	14:25	02:12	Matrix Spike
OP95328A-MSD	4M66745.D	07/09/16	14:55	02:42	Matrix Spike Duplicate
OP95394A-MB1	4M66746.D	07/09/16	15:24	03:11	Method Blank
ZZZZZZ	4M66748.D	07/09/16	16:24	04:11	(unrelated sample)
ZZZZZZ	4M66749.D	07/09/16	16:53	04:40	(unrelated sample)
ZZZZZZ	4M66750.D	07/09/16	17:23	05:10	(unrelated sample)
ZZZZZZ	4M66751.D	07/09/16	17:52	05:39	(unrelated sample)
ZZZZZZ	4M66752.D	07/09/16	18:22	06:09	(unrelated sample)
ZZZZZZ	4M66753.D	07/09/16	18:52	06:39	(unrelated sample)
ZZZZZZ	4M66754.D	07/09/16	19:21	07:08	(unrelated sample)
ZZZZZZ	4M66755.D	07/09/16	19:51	07:38	(unrelated sample)
JC23251-2	4M66756.D	07/09/16	20:20	08:07	(used for QC only; not part of job JC23654)
ZZZZZZ	4M66757.D	07/09/16	20:50	08:37	(unrelated sample)
ZZZZZZ	4M66758.D	07/09/16	21:19	09:06	(unrelated sample)
ZZZZZZ	4M66759.D	07/09/16	21:49	09:36	(unrelated sample)
ZZZZZZ	4M66760.D	07/09/16	22:18	10:05	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

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

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

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E4M3004-DFTPP
Lab File ID: 4M66765.D
Instrument ID: GCMS4M
Injection Date: 07/11/16
Injection Time: 08:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	20787	42.9		Pass
68	Less than 2.0% of mass 69	113	0.23	(0.46) [a]	Pass
69	Mass 69 relative abundance	24666	50.9		Pass
70	Less than 2.0% of mass 69	89	0.18	(0.36) [a]	Pass
127	40.0 - 60.0% of mass 198	25090	51.8		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	48461	100.0		Pass
199	5.0 - 9.0% of mass 198	3340	6.89		Pass
275	10.0 - 30.0% of mass 198	11231	23.2		Pass
365	1.0 - 100.0% of mass 198	1780	3.67		Pass
441	Present, but less than mass 443	7309	15.1	(82.2) [b]	Pass
442	40.0 - 100.0% of mass 198	46984	97.0		Pass
443	17.0 - 23.0% of mass 442	8891	18.3	(18.9) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M3004-CC2974	4M66766.D	07/11/16	08:55	00:10	Continuing cal 1.0
OP95332A-MB1	4M66767.D	07/11/16	09:30	00:45	Method Blank
OP95332A-BS12	4M66768.D	07/11/16	09:59	01:14	Blank Spike
OP95332A-MS	4M66769.D	07/11/16	10:29	01:44	Matrix Spike
OP95332A-MSD	4M66770.D	07/11/16	10:59	02:14	Matrix Spike Duplicate
JC22477-2	4M66771A.D	07/11/16	11:28	02:43	(used for QC only; not part of job JC23654)
OP95121A-MS	4M66772.D	07/11/16	11:58	03:13	Matrix Spike
ZZZZZZ	4M66773.D	07/11/16	12:28	03:43	(unrelated sample)
ZZZZZZ	4M66783.D	07/11/16	12:57	04:12	(unrelated sample)
ZZZZZZ	4M66784.D	07/11/16	13:27	04:42	(unrelated sample)
ZZZZZZ	4M66774.D	07/11/16	14:27	05:42	(unrelated sample)
ZZZZZZ	4M66775.D	07/11/16	14:57	06:12	(unrelated sample)
ZZZZZZ	4M66788.D	07/11/16	15:27	06:42	(unrelated sample)
OP95394A-BS12	4M66789.D	07/11/16	15:57	07:12	Blank Spike
ZZZZZZ	4M66776.D	07/11/16	16:27	07:42	(unrelated sample)
ZZZZZZ	4M66777.D	07/11/16	16:57	08:12	(unrelated sample)
ZZZZZZ	4M66779.D	07/11/16	17:57	09:12	(unrelated sample)
ZZZZZZ	4M66780.D	07/11/16	18:27	09:42	(unrelated sample)
ZZZZZZ	4M66781.D	07/11/16	18:57	10:12	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E4M3004-DFTPP
Lab File ID: 4M66765.D
Instrument ID: GCMS4M
Injection Date: 07/11/16
Injection Time: 08:45

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	4M66782.D	07/11/16	19:26	10:41	(unrelated sample)
ZZZZZZ	4M66785.D	07/11/16	19:56	11:11	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E4M3006-DFTPP
Lab File ID: 4M66794.D
Instrument ID: GCMS4M
Injection Date: 07/12/16
Injection Time: 10:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	41447	47.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	48685	55.3		Pass
70	Less than 2.0% of mass 69	287	0.33	(0.59) [a]	Pass
127	40.0 - 60.0% of mass 198	47944	54.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	88008	100.0		Pass
199	5.0 - 9.0% of mass 198	5700	6.48		Pass
275	10.0 - 30.0% of mass 198	20246	23.0		Pass
365	1.0 - 100.0% of mass 198	2663	3.03		Pass
441	Present, but less than mass 443	12486	14.2	(84.0) [b]	Pass
442	40.0 - 100.0% of mass 198	74432	84.6		Pass
443	17.0 - 23.0% of mass 442	14859	16.9	(20.0) [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
E4M3006-CC2974	4M66795.D	07/12/16	11:23	00:24	Continuing cal 1.0
ZZZZZZ	4M66796.D	07/12/16	11:53	00:54	(unrelated sample)
OP95148A-MB1	4M66797.D	07/12/16	12:22	01:23	Method Blank
ZZZZZZ	4M66798.D	07/12/16	12:52	01:53	(unrelated sample)
ZZZZZZ	4M66799.D	07/12/16	13:22	02:23	(unrelated sample)
ZZZZZZ	4M66800.D	07/12/16	13:53	02:54	(unrelated sample)
ZZZZZZ	4M66801.D	07/12/16	14:25	03:26	(unrelated sample)
OP95394A-MB1	4M66802.D	07/12/16	14:55	03:56	Method Blank
OP95394A-MS	4M66803.D	07/12/16	15:25	04:26	Matrix Spike
OP95318A-MB1	4M66820.D	07/12/16	15:56	04:57	Method Blank
ZZZZZZ	4M66821.D	07/12/16	16:28	05:29	(unrelated sample)
OP95217A-MB1	4M66812.D	07/12/16	16:58	05:59	Method Blank
OP95217A-BS12	4M66813.D	07/12/16	17:28	06:29	Blank Spike
OP95217A-MS	4M66815.D	07/12/16	18:28	07:29	Matrix Spike
OP95217A-MSD	4M66816.D	07/12/16	18:58	07:59	Matrix Spike Duplicate
ZZZZZZ	4M66817.D	07/12/16	19:28	08:29	(unrelated sample)
ZZZZZZ	4M66818.D	07/12/16	19:57	08:58	(unrelated sample)
ZZZZZZ	4M66819.D	07/12/16	20:27	09:28	(unrelated sample)
OP95394A-MSD	4M66804.D	07/12/16	20:57	09:58	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E4M3006-DFTPP
Lab File ID: 4M66794.D
Instrument ID: GCMS4M
Injection Date: 07/12/16
Injection Time: 10:59

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	4M66805.D	07/12/16	21:27	10:28	(unrelated sample)
ZZZZZZ	4M66806.D	07/12/16	21:57	10:58	(unrelated sample)
ZZZZZZ	4M66807.D	07/12/16	22:26	11:27	(unrelated sample)
ZZZZZZ	4M66808.D	07/12/16	22:56	11:57	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E5P1496-DFTPP
Lab File ID: 5P29325.D
Instrument ID: GCMS5P
Injection Date: 07/01/16
Injection Time: 11:45

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	50347	36.1		Pass
68	Less than 2.0% of mass 69	647	0.46	(1.15) [a]	Pass
69	Mass 69 relative abundance	56271	40.4		Pass
70	Less than 2.0% of mass 69	208	0.15	(0.37) [a]	Pass
127	40.0 - 60.0% of mass 198	76180	54.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	139298	100.0		Pass
199	5.0 - 9.0% of mass 198	8642	6.20		Pass
275	10.0 - 30.0% of mass 198	34972	25.1		Pass
365	1.0 - 100.0% of mass 198	4350	3.12		Pass
441	Present, but less than mass 443	20591	14.8	(84.3) [b]	Pass
442	40.0 - 100.0% of mass 198	130277	93.5		Pass
443	17.0 - 23.0% of mass 442	24412	17.5	(18.7) [c]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P1496-IC1496	5P29326.D	07/01/16	12:12	00:27	Initial cal 100
E5P1496-IC1496	5P29327.D	07/01/16	12:38	00:53	Initial cal 2
E5P1496-IC1496	5P29328.D	07/01/16	13:04	01:19	Initial cal 80
E5P1496-IC1496	5P29329.D	07/01/16	13:30	01:45	Initial cal 1
E5P1496-ICC1496	5P29330.D	07/01/16	13:55	02:10	Initial cal 50
E5P1496-IC1496	5P29331A.D	07/01/16	14:46	03:01	Initial cal 5
E5P1496-IC1496	5P29332.D	07/01/16	15:12	03:27	Initial cal 25
E5P1496-IC1496	5P29333.D	07/01/16	15:38	03:53	Initial cal 10

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E5P1497-DFTPP
Lab File ID: 5P29335.D
Instrument ID: GCMS5P
Injection Date: 07/01/16
Injection Time: 16:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	56036	35.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	62492	40.0		Pass
70	Less than 2.0% of mass 69	275	0.18	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	84560	54.1		Pass
197	Less than 1.0% of mass 198	527	0.34		Pass
198	Base peak, 100% relative abundance	156360	100.0		Pass
199	5.0 - 9.0% of mass 198	10436	6.67		Pass
275	10.0 - 30.0% of mass 198	38696	24.7		Pass
365	1.0 - 100.0% of mass 198	4365	2.79		Pass
441	Present, but less than mass 443	21978	14.1	(75.2) [b]	Pass
442	40.0 - 100.0% of mass 198	151904	97.2		Pass
443	17.0 - 23.0% of mass 442	29237	18.7	(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
E5P1497-IC1497	5P29336.D	07/01/16	17:03	00:16	Initial cal 100
E5P1497-IC1497	5P29337.D	07/01/16	17:29	00:42	Initial cal 80
E5P1497-ICC1497	5P29338.D	07/01/16	17:54	01:07	Initial cal 50
E5P1497-IC1497	5P29339.D	07/01/16	18:20	01:33	Initial cal 25
E5P1497-IC1497	5P29340.D	07/01/16	18:46	01:59	Initial cal 10
E5P1497-IC1497	5P29341.D	07/01/16	19:11	02:24	Initial cal 5
E5P1497-IC1497	5P29342.D	07/01/16	19:36	02:49	Initial cal 2
E5P1497-IC1497	5P29343.D	07/01/16	20:01	03:14	Initial cal 1
E5P1497-ICV1496	5P29344.D	07/01/16	20:27	03:40	Initial cal verification 50
E5P1497-ICV1496	5P29345.D	07/01/16	20:52	04:05	Initial cal verification 50
E5P1497-ICV1496	5P29346.D	07/01/16	21:18	04:31	Initial cal verification 50
E5P1497-ICV1497	5P29347A.D	07/01/16	21:43	04:56	Initial cal verification 50
E5P1497-ICV1496	5P29347.D	07/01/16	21:43	04:56	Initial cal verification 50
E5P1497-ICV1497	5P29348A.D	07/01/16	22:09	05:22	Initial cal verification 50
E5P1497-ICV1496	5P29348.D	07/01/16	22:09	05:22	Initial cal verification 50
E5P1497-ICV1497	5P29349A.D	07/01/16	22:34	05:47	Initial cal verification 50
E5P1497-ICV1496	5P29349.D	07/01/16	22:34	05:47	Initial cal verification 50
E5P1497-ICV1497	5P29350.D	07/01/16	23:00	06:13	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E5P1500-DFTPP
Lab File ID: 5P29398.D
Instrument ID: GCMS5P
Injection Date: 07/05/16
Injection Time: 09:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	67454	37.4		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	77340	42.8		Pass
70	Less than 2.0% of mass 69	499	0.28	(0.65) [a]	Pass
127	40.0 - 60.0% of mass 198	100623	55.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	180501	100.0		Pass
199	5.0 - 9.0% of mass 198	11817	6.55		Pass
275	10.0 - 30.0% of mass 198	42778	23.7		Pass
365	1.0 - 100.0% of mass 198	5269	2.92		Pass
441	Present, but less than mass 443	25449	14.1	(80.7) [b]	Pass
442	40.0 - 100.0% of mass 198	165608	91.7		Pass
443	17.0 - 23.0% of mass 442	31552	17.5	(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
E5P1500-ICV1496	5P29399.D	07/05/16	09:26	00:17	Initial cal verification 50
E5P1500-ICV1497	5P29400.D	07/05/16	09:51	00:42	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: E5P1510-DFTPP
Lab File ID: 5P29598.D
Instrument ID: GCMS5P
Injection Date: 07/12/16
Injection Time: 16:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	69875	47.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	73045	49.5		Pass
70	Less than 2.0% of mass 69	340	0.23	(0.47) [a]	Pass
127	40.0 - 60.0% of mass 198	87437	59.2		Pass
197	Less than 1.0% of mass 198	1119	0.76		Pass
198	Base peak, 100% relative abundance	147576	100.0		Pass
199	5.0 - 9.0% of mass 198	10082	6.83		Pass
275	10.0 - 30.0% of mass 198	34907	23.7		Pass
365	1.0 - 100.0% of mass 198	3804	2.58		Pass
441	Present, but less than mass 443	17638	12.0	(80.3) [b]	Pass
442	40.0 - 100.0% of mass 198	113261	76.7		Pass
443	17.0 - 23.0% of mass 442	21962	14.9	(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
E5P1510-CC1496	5P29599.D	07/12/16	16:19	00:14	Continuing cal 25
E5P1510-CC1497	5P29600.D	07/12/16	16:53	00:48	Continuing cal 50
JC23326-1	5P29602.D	07/12/16	17:43	01:38	(used for QC only; not part of job JC23654)
OP95434A-MB1	5P29603.D	07/12/16	18:08	02:03	Method Blank
JC23654-4	5P29604.D	07/12/16	18:33	02:28	OSGP8-GWS
OP95420-MB1	5P29605.D	07/12/16	18:58	02:53	Method Blank
ZZZZZZ	5P29606.D	07/12/16	19:23	03:18	(unrelated sample)
ZZZZZZ	5P29607.D	07/12/16	19:48	03:43	(unrelated sample)
ZZZZZZ	5P29608.D	07/12/16	20:14	04:09	(unrelated sample)
ZZZZZZ	5P29609.D	07/12/16	20:39	04:34	(unrelated sample)
ZZZZZZ	5P29610.D	07/12/16	21:04	04:59	(unrelated sample)
ZZZZZZ	5P29611.D	07/12/16	21:29	05:24	(unrelated sample)
ZZZZZZ	5P29612.D	07/12/16	21:54	05:49	(unrelated sample)
OP95332-MS	5P29614.D	07/12/16	22:43	06:38	Matrix Spike
OP95332-MSD	5P29615.D	07/12/16	23:09	07:04	Matrix Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EM5307-DFTPP
Lab File ID: M125261.D
Instrument ID: GCMSM
Injection Date: 06/16/16
Injection Time: 12:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	86768	35.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	107379	44.1		Pass
70	Less than 2.0% of mass 69	937	0.38	(0.87) [a]	Pass
127	40.0 - 60.0% of mass 198	116545	47.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	243434	100.0		Pass
199	5.0 - 9.0% of mass 198	16038	6.59		Pass
275	10.0 - 30.0% of mass 198	56832	23.3		Pass
365	1.0 - 100.0% of mass 198	5769	2.37		Pass
441	Present, but less than mass 443	20436	8.39	(74.3) [b]	Pass
442	40.0 - 100.0% of mass 198	143365	58.9		Pass
443	17.0 - 23.0% of mass 442	27519	11.3	(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
EM5307-IC5307	M125262.D	06/16/16	12:56	00:28	Initial cal 2
EM5307-IC5307	M125263.D	06/16/16	13:25	00:57	Initial cal 1
EM5307-IC5307	M125264.D	06/16/16	13:54	01:26	Initial cal 100
EM5307-IC5307	M125265.D	06/16/16	14:23	01:55	Initial cal 80
EM5307-ICC5307	M125266.D	06/16/16	14:51	02:23	Initial cal 50
EM5307-IC5307	M125267.D	06/16/16	15:21	02:53	Initial cal 25
EM5307-IC5307	M125268.D	06/16/16	15:49	03:21	Initial cal 10
EM5307-IC5307	M125269.D	06/16/16	16:18	03:50	Initial cal 5

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EM5308-DFTPP
Lab File ID: M125270.D
Instrument ID: GCMSM
Injection Date: 06/16/16
Injection Time: 17:01

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	100016	37.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	127904	47.6		Pass
70	Less than 2.0% of mass 69	633	0.24	(0.49) [a]	Pass
127	40.0 - 60.0% of mass 198	138621	51.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	268738	100.0		Pass
199	5.0 - 9.0% of mass 198	19323	7.19		Pass
275	10.0 - 30.0% of mass 198	56652	21.1		Pass
365	1.0 - 100.0% of mass 198	6675	2.48		Pass
441	Present, but less than mass 443	20921	7.78	(87.0) [b]	Pass
442	40.0 - 100.0% of mass 198	141453	52.6		Pass
443	17.0 - 23.0% of mass 442	24057	8.95	(17.0) [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
EM5308-IC5308	M125271.D	06/16/16	17:34	00:33	Initial cal 100
EM5308-IC5308	M125272.D	06/16/16	18:03	01:02	Initial cal 80
EM5308-ICC5308	M125273.D	06/16/16	18:31	01:30	Initial cal 50
EM5308-IC5308	M125274.D	06/16/16	19:00	01:59	Initial cal 25
EM5308-IC5308	M125275.D	06/16/16	19:29	02:28	Initial cal 10
EM5308-IC5308	M125276.D	06/16/16	19:58	02:57	Initial cal 5
EM5308-IC5308	M125277.D	06/16/16	20:27	03:26	Initial cal 2
EM5308-IC5308	M125278.D	06/16/16	20:56	03:55	Initial cal 1
EM5308-ICV5307	M125280.D	06/16/16	21:54	04:53	Initial cal verification 50
EM5308-ICV5307	M125281.D	06/16/16	22:23	05:22	Initial cal verification 50
EM5308-ICV5308	M125281A.D	06/16/16	22:23	05:22	Initial cal verification 50
EM5308-ICV5307	M125282.D	06/16/16	22:51	05:50	Initial cal verification 50
EM5308-ICV5308	M125282A.D	06/16/16	22:51	05:50	Initial cal verification 50
EM5308-ICV5307	M125283.D	06/16/16	23:20	06:19	Initial cal verification 50
EM5308-ICV5307	M125284.D	06/16/16	23:49	06:48	Initial cal verification 50
EM5308-ICV5308	M125285.D	06/17/16	00:18	07:17	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EM5310-DFTPP
Lab File ID: M125313.D
Instrument ID: GCMSM
Injection Date: 06/19/16
Injection Time: 07:53

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	132663	36.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	161863	44.2		Pass
70	Less than 2.0% of mass 69	964	0.26	(0.60) [a]	Pass
127	40.0 - 60.0% of mass 198	182271	49.7		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	366592	100.0		Pass
199	5.0 - 9.0% of mass 198	24856	6.78		Pass
275	10.0 - 30.0% of mass 198	79949	21.8		Pass
365	1.0 - 100.0% of mass 198	7748	2.11		Pass
441	Present, but less than mass 443	27910	7.61	(70.4) [b]	Pass
442	40.0 - 100.0% of mass 198	191608	52.3		Pass
443	17.0 - 23.0% of mass 442	39663	10.8	(20.7) [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
EM5310-ICV5307	M125314.D	06/19/16	08:09	00:16	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Sample: EM5342-DFTPP
Lab File ID: M126010.D
Instrument ID: GCMSM
Injection Date: 07/11/16
Injection Time: 10:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	199684	41.8		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	253527	53.0		Pass
70	Less than 2.0% of mass 69	384	0.08	(0.15) [a]	Pass
127	40.0 - 60.0% of mass 198	252844	52.9		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	478058	100.0		Pass
199	5.0 - 9.0% of mass 198	32226	6.74		Pass
275	10.0 - 30.0% of mass 198	106368	22.3		Pass
365	1.0 - 100.0% of mass 198	11171	2.34		Pass
441	Present, but less than mass 443	30925	6.47	(65.8) [b]	Pass
442	40.0 - 100.0% of mass 198	235482	49.3		Pass
443	17.0 - 23.0% of mass 442	47020	9.84	(20.0) [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
EM5342-CC5307	M126011.D	07/11/16	10:28	00:24	Continuing cal 50
OP95319A-MB1	M126012.D	07/11/16	11:03	00:59	Method Blank
ZZZZZZ	M126013.D	07/11/16	11:31	01:27	(unrelated sample)
ZZZZZZ	M126014.D	07/11/16	12:00	01:56	(unrelated sample)
ZZZZZZ	M126015.D	07/11/16	12:28	02:24	(unrelated sample)
OP95179A-MB1	M126016.D	07/11/16	12:57	02:53	Method Blank
ZZZZZZ	M126017.D	07/11/16	13:25	03:21	(unrelated sample)
ZZZZZZ	M126018.D	07/11/16	13:54	03:50	(unrelated sample)
ZZZZZZ	M126019.D	07/11/16	14:22	04:18	(unrelated sample)
JC22862-9	M126020.D	07/11/16	14:51	04:47	(used for QC only; not part of job JC23654)
ZZZZZZ	M126021.D	07/11/16	15:19	05:15	(unrelated sample)
JC22907-4	M126022.D	07/11/16	15:48	05:44	(used for QC only; not part of job JC23654)
ZZZZZZ	M126023.D	07/11/16	16:16	06:12	(unrelated sample)
OP95394A-MB1	M126024.D	07/11/16	16:45	06:41	Method Blank
JC23654-1	M126025.D	07/11/16	17:13	07:09	OSGP6-GWS
JC23654-2	M126026.D	07/11/16	17:42	07:38	OSGP6D-GWS
JC23654-3	M126027.D	07/11/16	18:11	08:07	OSGP8-GWD
JC23269-3	M126028.D	07/11/16	18:39	08:35	(used for QC only; not part of job JC23654)

Semivolatile Internal Standard Area Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	E3M2971-CC2942	**Injection Date:**	07/11/16
Lab File ID:	3M62884.D	**Injection Time:**	09:10
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	420993	10.62	640558	13.63	985680	17.84	875046	22.43
Upper Limit [a]	841986	11.12	1281116	14.13	1971360	18.34	1750092	22.93
Lower Limit [b]	210497	10.12	320279	13.13	492840	17.34	437523	21.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95361A-MB1	342298	10.62	509766	13.63	765214	17.84	668331	22.43
ZZZZZZ	418622	10.62	604947	13.63	947959	17.84	826173	22.43
OP95394A-MB1	415334	10.62	585762	13.63	942832	17.84	839845	22.43
JC23654-1	403483	10.62	578601	13.63	910590	17.84	779155	22.43
JC23654-2	403289	10.62	561163	13.63	888884	17.84	759596	22.43
JC23654-3	412735	10.62	592101	13.63	935191	17.84	819696	22.43
JC23654-5	425964	10.62	610637	13.63	969713	17.84	830155	22.43
ZZZZZZ	387832	10.62	566382	13.63	900552	17.84	784386	22.43
ZZZZZZ	414285	10.62	586319	13.63	928944	17.84	794994	22.43
OP95434A-MB1	343780	10.62	482251	13.63	765681	17.84	660028	22.43
OP95434A-BS12	395925	10.62	576911	13.63	854702	17.84	747491	22.43
OP95434A-MS	383660	10.62	561776	13.63	844205	17.84	732043	22.43
OP95434A-MSD	401093	10.62	583163	13.63	886722	17.84	772922	22.43
JC23654-4	383567	10.62	549716	13.63	878668	17.84	753165	22.43
ZZZZZZ	391469	10.62	564785	13.63	915629	17.84	786400	22.43
ZZZZZZ	385889	10.62	546003	13.63	854983	17.84	705171	22.43
ZZZZZZ	367477	10.62	509150	13.63	807241	17.84	663291	22.43
ZZZZZZ	385739	10.62	552944	13.63	882910	17.84	759583	22.43
ZZZZZZ	382088	10.62	533660	13.63	841113	17.84	676372	22.43
ZZZZZZ	390519	10.62	534199	13.63	854168	17.84	703303	22.43

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: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

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

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

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

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

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

Semivolatile Internal Standard Area Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	E4M3004-CC2974	**Injection Date:**	07/11/16
Lab File ID:	4M66766.D	**Injection Time:**	08:55
Instrument ID:	GCMS4M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	38800	9.62	60857	12.61	108727	16.79	87971	21.40
Upper Limit [a]	77600	10.12	121714	13.11	217454	17.29	175942	21.90
Lower Limit [b]	19400	9.12	30429	12.11	54364	16.29	43986	20.90

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP95332A-MB1	39268	9.62	70233	12.61	130533	16.79	110032	21.40
OP95332A-BS12	34153	9.62	56783	12.61	111450	16.79	94098	21.40
OP95332A-MS	32907	9.62	56321	12.61	110937	16.81	91367	21.40
OP95332A-MSD	25921	9.62	44956	12.61	89648	16.79	78006	21.40
JC22477-2	39595	9.62	66251	12.61	127913	16.79	101169	21.40
OP95121A-MS	24404	9.62	40980	12.61	77950	16.79	67628	21.40
ZZZZZZ	28046	9.62	80722	12.59	84258	16.79	71821	21.40
ZZZZZZ	29598	9.62	47267	12.61	87209	16.79	74296	21.40
ZZZZZZ	28881	9.62	45518	12.61	84434	16.79	70765	21.40
ZZZZZZ	27686	9.62	43655	12.61	80398	16.81	77646	21.41
ZZZZZZ	39395	9.62	64892	12.61	114205	16.81	98474	21.40
ZZZZZZ	67336	9.69	92441	12.68	114811	16.85	82467	21.40
OP95394A-BS12	27293	9.62	47609	12.61	84435	16.81	77909	21.40
ZZZZZZ	68473	9.69	91216	12.64	137314	16.83	115399	21.41
ZZZZZZ	37461	9.62	64053	12.61	110043	16.81	94611	21.40
ZZZZZZ	31544	9.62	50916	12.61	95294	16.79	80670	21.40
ZZZZZZ	30500	9.62	50576	12.61	91508	16.79	77887	21.40
ZZZZZZ	33175	9.62	54358	12.61	96239	16.79	79912	21.40
ZZZZZZ	32817	9.62	52217	12.61	96292	16.79	82738	21.40
ZZZZZZ	34029	9.62	57542	12.61	106095	16.79	79438	21.40

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: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	E4M3006-CC2974	**Injection Date:**	07/12/16
Lab File ID:	4M66795.D	**Injection Time:**	11:23
Instrument ID:	GCMS4M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	36365	9.57	65012	12.56	132974	16.75	103160	21.35
Upper Limit [a]	72730	10.07	130024	13.06	265948	17.25	206320	21.85
Lower Limit [b]	18183	9.07	32506	12.06	66487	16.25	51580	20.85

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	88238[c]	9.57	144074[c]	12.56	279501[c]	16.75	212182[c]	21.35
OP95148A-MB1	51114	9.57	101254	12.54	207107	16.75	122811	21.35
ZZZZZZ	49682	9.57	93173	12.56	183289	16.75	114921	21.35
ZZZZZZ	47275	9.57	101625	12.56	174136	16.75	113686	21.35
ZZZZZZ	46501	9.60	106310	12.56	165106	16.75	110888	21.37
ZZZZZZ	46607	9.60	100971	12.56	182711	16.75	115180	21.35
OP95394A-MB1	36063	9.57	61952	12.56	117176	16.75	88862	21.35
OP95394A-MS	29985	9.60	52324	12.56	92687	16.77	74014	21.35
OP95318A-MB1	30971	9.60	50877	12.56	93750	16.76	77100	21.36
ZZZZZZ	25502	9.60	43174	12.56	71814	16.76	59072	21.36
OP95217A-MB1	31680	9.57	50320	12.56	93618	16.76	73917	21.36
OP95217A-BS12	33264	9.57	51928	12.56	94817	16.76	74475	21.36
OP95217A-MS	32933	9.57	54914	12.56	96861	16.76	73685	21.36
OP95217A-MSD	32919	9.57	54847	12.56	97359	16.76	75146	21.36
ZZZZZZ	32803	9.60	58857	12.56	95087	16.78	75691	21.36
ZZZZZZ	32276	9.60	71339	12.56	89051	16.76	73054	21.36
ZZZZZZ	32273	9.60	54337	12.56	95203	16.76	74832	21.36
OP95394A-MSD	31472	9.60	54861	12.56	96072	16.76	70460	21.36
ZZZZZZ	58057	9.57	122299	12.56	248780	16.76	147364	21.36
ZZZZZZ	31272	9.57	49338	12.56	90723	16.76	71618	21.36
ZZZZZZ	32611	9.57	52911	12.56	98048	16.76	74906	21.36
ZZZZZZ	35278	9.57	55641	12.56	100798	16.76	77557	21.36

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) double spiked. % recovery was re-calculated.

Semivolatile Internal Standard Area Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	E5P1510-CC1496	**Injection Date:**	07/12/16
Lab File ID:	5P29599.D	**Injection Time:**	16:19
Instrument ID:	GCMS5P	**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	364374	4.91	1557521	6.12	940162	7.84	1536125	9.38	1185610	12.96	1061346	15.02
Upper Limit [a]	728748	5.41	3115042	6.62	1880324	8.34	3072250	9.88	2371220	13.46	2122692	15.52
Lower Limit [b]	182187	4.41	778761	5.62	470081	7.34	768063	8.88	592805	12.46	530673	14.52

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
JC23326-1	353918	4.91	1408908	6.12	738705	7.83	1174905	9.38	1050536	12.96	996215	15.02
OP95434A-MB1	368382	4.91	1363553	6.12	758664	7.83	1184895	9.38	1114503	12.96	1005103	15.02
JC23654-4	328601	4.91	1268246	6.12	786014	7.83	1202340	9.38	1067095	12.96	985618	15.02
OP95420-MB1	416752	4.91	1679193	6.12	974246	7.83	1478365	9.38	1209771	12.96	1077599	15.02
ZZZZZZ	349483	4.93	1281703	6.13	802964	7.83	1136434	9.38	970903	12.96	812435	15.03
ZZZZZZ	336048	4.92	1252176	6.12	759202	7.83	1028244	9.38	789078	12.99	764899	15.08
ZZZZZZ	325987	4.94	1273461	6.13	725355	7.84	1039037	9.39	889993	12.96	768363	15.03
ZZZZZZ	324083	4.94	1312742	6.13	791099	7.84	1227930	9.38	1001930	12.96	869939	15.02
ZZZZZZ	324269	4.93	1302873	6.13	705520	7.84	1175367	9.38	1022261	12.96	882760	15.02
ZZZZZZ	323137	4.93	1257673	6.13	726424	7.84	1198741	9.38	1002223	12.96	811456	15.02
ZZZZZZ	368757	4.92	1439431	6.12	788924	7.83	1229674	9.38	993023	12.96	873745	15.02
OP95332-MS	347229	4.91	1447155	6.12	709338	7.84	1068265	9.39	822859	12.98	731246	15.04
OP95332-MSD	364590	4.91	1425220	6.12	720828	7.84	1076892	9.39	863527	12.98	762099	15.04

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

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

Semivolatile Internal Standard Area Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

Check Std:	EM5342-CC5307	**Injection Date:**	07/11/16
Lab File ID:	M126011.D	**Injection Time:**	10:28
Instrument ID:	GCMSM	**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	453200	4.75	1808622	5.89	1177828	8.26	2195081	10.90	2210397	16.09	1945320	18.73
Upper Limit [a]	906400	5.25	3617244	6.39	2355656	8.76	4390162	11.40	4420794	16.59	3890640	19.23
Lower Limit [b]	226600	4.25	904311	5.39	588914	7.76	1097541	10.40	1105199	15.59	972660	18.23

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
OP95319A-MB1	546992	4.75	2120409	5.89	1359411	8.25	2523307	10.90	2600140	16.09	2166653	18.72
ZZZZZZ	550573	4.74	2099396	5.89	1334194	8.26	2358131	10.90	2462156	16.09	2084296	18.73
ZZZZZZ	539469	4.74	2104207	5.89	1349495	8.26	2310832	10.90	2593051	16.09	2195324	18.72
ZZZZZZ	522537	4.74	2014081	5.89	1296649	8.25	2401635	10.90	2413664	16.09	2018694	18.72
OP95179A-MB1	470603	4.74	1833072	5.89	1233802	8.26	2273062	10.89	2266522	16.09	1845969	18.72
ZZZZZZ	430779	4.75	1727810	5.89	1146347	8.25	2176108	10.89	2215131	16.08	1951979	18.72
ZZZZZZ	455717	4.74	1810381	5.89	1183029	8.26	2130555	10.89	2236672	16.08	1915306	18.72
ZZZZZZ	538754	4.74	2083709	5.89	1325965	8.25	2413984	10.90	2476561	16.08	2149564	18.72
JC22862-9	467107	4.74	1875545	5.89	1184079	8.25	2264755	10.89	2325422	16.08	2035524	18.72
ZZZZZZ	413047	4.74	1666849	5.89	1094518	8.26	2084634	10.89	2115054	16.08	1889111	18.72
JC22907-4	434274	4.75	1774442	5.89	1202488	8.25	2227560	10.89	2258086	16.08	2057673	18.72
ZZZZZZ	319309	4.75	1288198	5.89	870237	8.26	1612751	10.89	1644542	16.08	1469595	18.72
OP95394A-MB1	486186	4.74	1894900	5.89	1265578	8.26	2353414	10.89	2422455	16.09	2101241	18.72
JC23654-1	437570	4.74	1738191	5.89	1133331	8.26	2122343	10.89	2173560	16.08	1905755	18.72
JC23654-2	460939	4.74	1765118	5.89	1143130	8.25	2148078	10.89	2184965	16.08	1897084	18.72
JC23654-3	464862	4.75	1816504	5.89	1201909	8.25	2252618	10.89	2301445	16.08	2022809	18.72
JC23269-3	455051	4.74	1727908	5.89	1022635	8.25	1682918	10.90	1354868	16.10	1157446	18.74

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

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

Semivolatile Surrogate Recovery Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC23654-1	M126025.D	79	63	64
JC23654-1	3M62896.D	69	73	83
JC23654-2	M126026.D	79	62	67
JC23654-2	3M62897.D	69	71	86
JC23654-3	M126027.D	82	61	59
JC23654-3	3M62898.D	71	71	76
JC23654-4	3M62907.D	76	79	81
JC23654-4	5P29604.D	95	95	78
JC23654-5	3M62900.D	71	72	76
OP95394A-BS12	4M66789.D	69	59	109
OP95394A-MB1	4M66746.D	76	54	104
OP95394A-MB1	3M62895.D	71	51	108
OP95394A-MB1	M126024.D	76	41	78
OP95394A-MB1	4M66802.D	77	59	110
OP95394A-MS	4M66803.D	83	89	114
OP95394A-MSD	4M66804.D	88	92	110
OP95434A-BS12	3M62904.D	90	91	115
OP95434A-MB1	3M62903.D	74	77	114
OP95434A-MB1	5P29603.D	84	91	98
OP95434A-MS	3M62905.D	85	88	102
OP95434A-MSD	3M62906.D	77	81	102

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

Initial Calibration Summary

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E3M2942-ICC2942
Lab FileID: 3M62373.D

Response Factor Report MS3M

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

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

Compound

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

Initial Calibration Summary

Job Number: JC23654 **Sample:** E3M2942-ICC2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62373.D
Project: BMS-ICM, Humacao, PR

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

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

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

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

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

6.7.1

6

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E3M2942-ICV2942
Lab FileID: 3M62382.D

Evaluate Continuing Calibration Report

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

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

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

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

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

Initial Calibration Verification

Job Number: JC23654 **Sample:** E3M2943-ICV2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62384.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

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

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

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

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

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

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E3M2971-CC2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62884.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E3M2971\3m62884.D          Vial: 2
Acq On    : 11 Jul 2016   9:10 am                    Operator: ashleyd
Sample    : cc2942-1.0                               Inst    : MS3M
Misc      : op95160a,e3m2971                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M3M2942SIM.M (RTE Integrator)
Title        : Semi Volatile Extractables by GC/MS
Last Update  : Mon Jul 11 09:35:55 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	75	0.00	10.62
2	t	1,4-dioxane	0.247	0.205	17.0	63	-0.02	2.31
3	S	2-Fluorophenol	0.627	0.560	10.7	67	-0.07	4.58
4	S	Phenol-d5	0.992	0.840	15.3	63	0.00	6.20
5		Phenol	1.092	0.901	17.5	61	0.00	6.21
6	t	bis(2-Chloroethyl)ether	0.824	0.671	18.6	60	0.00	6.28
7	S	Nitrobenzene-d5	0.811	0.773	4.7	70	-0.05	7.73
8	t	Nitrobenzene	0.886	0.845	4.6	66	-0.03	7.76
9	t	Naphthalene	2.372	2.046	13.7	64	-0.01	9.14
10	t	Hexachlorobutadiene	0.358	0.364	-1.7	75	0.00	9.44
11	t	2-Methylnaphthalene	1.234	1.095	11.3	68	0.00	10.50
12	t	1-Methylnaphthalene	1.432	1.183	17.4	61	0.02	10.70
13		Hexachlorocyclopentadiene	0.251	0.280	-11.6	83	0.03	10.87
14	I	Fluorene-d10	1.000	1.000	0.0	87	0.00	13.63
15	S	2-Fluorobiphenyl	1.225	1.084	11.5	71	-0.02	11.30
16	t	Acenaphthylene	1.497	1.404	6.2	71	-0.02	12.28
17	t	Acenaphthene	0.972	0.895	7.9	69	-0.02	12.63
		----------	True	Calc.	% Drift	----------		
18	t	4,6-dinitro-2-methylpheno	5.000	7.403	-48.1#	164	0.02	13.86
		----------	AvgRF	CCRF	% Dev	----------		
19	t	Fluorene	1.095	0.992	9.4	69	0.02	13.69
20	S	2,4,6-Tribromophenol	0.129	0.135	-4.7	89	0.03	14.18
21	I	Fluoranthene-d10	1.000	1.000	0.0	87	0.00	17.84
22	t	Hexachlorobenzene	0.203	0.204	-0.5	77	-0.07	14.80
		----------	True	Calc.	% Drift	----------		
23	t	Pentachlorophenol	5.000	3.556	28.9#	58	-0.05	15.23
		----------	AvgRF	CCRF	% Dev	----------		
24	t	Phenanthrene	1.019	0.959	5.9	71	0.00	15.59
25	t	Anthracene	0.954	0.905	5.1	75	0.00	15.69
26	t	Fluoranthene	1.182	1.079	8.7	74	0.00	17.87
27	t	Pyrene	1.085	1.100	-1.4	78	0.00	18.26
28	S	Terphenyl-d14	0.602	0.618	-2.7	81	0.01	18.63
		----------	True	Calc.	% Drift	----------		
29	t	Benzo[a]anthracene	1.000	1.179	-17.9	91	0.03	20.35

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E3M2971-CC2942
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 3M62884.D
Project: BMS-ICM, Humacao, PR

			AvgRF	CCRF	% Dev			
30	t	Chrysene	0.963	0.967	-0.4	82	0.01	20.39
31	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	110	0.00	22.43
32	t	Benzo[b]fluoranthene	1.263	1.118	11.5	84	0.00	22.00
33	t	Benzo[k]fluoranthene	1.353	1.061	21.6#	78	-0.10	22.04
34	t	Benzo[a]pyrene	1.330	1.057	20.5#	84	-0.03	22.45
35	t	Indeno[1,2,3-cd]pyrene	1.101	1.198	-8.8	106	-0.02	23.97
36	t	Dibenz[a,h]anthracene	0.883	0.966	-9.4	107	-0.04	23.99
37	t	Benzo[g,h,i]perylene	1.012	1.052	-4.0	103	-0.04	24.35

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3m62373.D M3M2942SIM.M Mon Jul 11 14:39:28 2016 RPT1

6.7.4

6

Initial Calibration Summary

Job Number: JC23654 **Sample:** E4M2974-ICC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66184.D
Project: BMS-ICM, Humacao, PR

```
                    Response Factor Report  GCMS4M

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

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

Compound
            0.05  .2    2.5   .02   .1    1     .01   .5    5            Avg    %RSD
-----------------------------------------------------------------------------

1) I   1-Methylnaphthalene-d ----------------ISTD---------------------
2)  2-Fluorophenol
          0.655 0.695 0.646 0.586 0.607 0.642       0.670 0.598        0.637    5.91
3)  Phenol-d5
          1.018 1.114 0.989 0.929 0.956 1.031       1.068 0.937        1.005    6.50
4)  Phenol
          1.140 1.198 1.089 0.994 1.027 1.093       1.127 1.034        1.088    6.19
5)  bis(2-Chloroethyl)ether
          0.684 0.859 0.826 0.599 0.773 0.805       0.817 0.778        0.768   11.11
6)  Nitrobenzene-d5
          0.918 0.983 0.873 0.856 0.836 0.895       0.923 0.868        0.894    5.23
7)  Naphthalene
          2.780 3.002 2.831 2.771 2.541 2.828 2.788 2.883 2.701        2.792    4.51
8)  Hexachlorobutadiene
          0.495 0.514 0.471 0.488 0.435 0.471       0.484 0.451        0.476    5.27
9)  2-Methylnaphthalene
                1.591 1.232       1.385 1.222       1.319 1.189        1.323   11.31
10)  Hexachlorocyclopentadiene
                0.026 0.151       0.011 0.083       0.049 0.198        0.086   85.53
            ---- Quadratic regression ----  Coefficient =  0.9988
              Response Ratio = -0.01112 + 0.10494 *A + 0.03937 *A^2

11)  2-Fluorobiphenyl
          1.656 1.805 1.430 1.586 1.462 1.618       1.713              1.610    8.24

12) I   Fluorene-d10          ----------------ISTD---------------------
13)  Acenaphthylene
          1.001 1.108 1.086 1.038 0.966 1.182 0.988 1.196 0.979        1.060    8.22
14)  Acenaphthene
          0.641 0.697 0.677 0.634 0.584 0.748 0.612 0.745 0.583        0.658    9.56
15)  Dibenzofuran
                1.321 0.969       0.963 1.106       1.163 0.898        1.070   14.72
16)  Fluorene
          1.172 1.240 1.185 1.114 1.050 1.335 1.083 1.359 1.104        1.183    9.28
17)  2,4,6-Tribromophenol
          0.165 0.192 0.180       0.162 0.208       0.211              0.186   11.30
18)  Hexachlorobenzene
          0.381 0.407 0.362 0.493 0.349 0.417 0.380 0.435 0.331        0.395   12.50
19)  Pentachlorophenol
          0.125 0.141 0.163       0.117 0.167       0.147 0.159        0.146   13.33
20)  Phenanthrene
          1.533 1.691 1.598 1.528 1.445 1.792 1.546 1.832 1.419        1.598    9.08
21)  Anthracene
          1.461 1.485 1.490 1.395 1.357 1.619 1.442 1.633 1.365        1.472    6.78
```

Initial Calibration Summary

Job Number: JC23654 **Sample:** E4M2974-ICC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66184.D
Project: BMS-ICM, Humacao, PR

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

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

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

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

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

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

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

Initial Calibration Verification

Job Number: JC23654 **Sample:** E4M2974-ICV2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66190.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

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

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

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

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

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E4M2974-ICV2974
Lab FileID: 4M66190.D

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

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

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E4M2974-ICV2974
Lab FileID: 4M66191.D

Evaluate Continuing Calibration Report

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

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

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

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

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

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E4M3003-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66741.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

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

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

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

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

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E4M3003-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66741.D
Project: BMS-ICM, Humacao, PR

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

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

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

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

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

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

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

6.7.8

6

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E4M3004-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66766.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M3004\4m66766.D          Vial: 2
Acq On    : 11 Jul 2016   8:55 am                    Operator: ashleyd
Sample    : cc2974-1.0                               Inst    : GCMS4M
Misc      : op95277a,e4m3004                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Mon Jul 11 15:14:51 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	72	0.00	9.62
2	S	2-Fluorophenol	0.637	0.575	9.7	65	0.00	4.02
3	S	Phenol-d5	1.005	0.934	7.1	65	0.00	5.43
4	t	Phenol	1.088	1.014	6.8	67	0.00	5.46
5	t	bis(2-Chloroethyl)ether	0.768	0.872	-13.5	78	0.00	5.48
6	S	Nitrobenzene-d5	0.894	0.876	2.0	71	0.00	6.83
7	t	Naphthalene	2.792	2.620	6.2	67	0.00	8.16
8	t	Hexachlorobutadiene	0.476	0.498	-4.6	76	0.00	8.42
9	t	2-Methylnaphthalene	1.323	1.374	-3.9	81	0.00	9.50
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	2.000	2.928	-46.4#	151	0.00	9.83
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.610	1.370	14.9	61	0.00	10.29
12	I	Fluorene-d10	1.000	1.000	0.0	69	0.00	12.61
13	t	Acenaphthylene	1.060	1.366	-28.9#	79	0.00	11.27
14	t	Acenaphthene	0.658	0.826	-25.5#	76	0.00	11.61
15	t	Dibenzofuran	1.070	1.090	-1.9	68	0.00	11.99
16	t	Fluorene	1.183	1.148	3.0	59	0.00	12.66
17	S	2,4,6-Tribromophenol	0.186	0.211	-13.4	70	0.00	13.16
18	t	Hexachlorobenzene	0.395	0.432	-9.4	71	0.00	13.74
19	t	Pentachlorophenol	0.146	0.127	13.0	52	0.00	14.21
20	t	Phenanthrene	1.598	1.766	-10.5	68	0.00	14.55
21	t	Anthracene	1.472	1.803	-22.5#	76	0.00	14.66
22	I	Fluoranthene-d10	1.000	1.000	0.0	80	0.00	16.79
23	t	Fluoranthene	1.169	1.142	2.3	71	0.00	16.83
24	t	Pyrene	1.139	1.103	3.2	71	0.00	17.22
25	S	Terphenyl-d14	0.565	0.626	-10.8	78	0.00	17.60
26	t	Benzo[a]anthracene	0.988	1.011	-2.3	76	0.00	19.31
27	t	Chrysene	1.027	1.070	-4.2	80	0.00	19.37
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	79	0.00	21.40
29	t	Benzo[b]fluoranthene	1.386	1.480	-6.8	78	0.00	20.97
30	t	Benzo[k]fluoranthene	1.343	1.167	13.1	64	0.00	21.01
31	t	Benzo[a]pyrene	1.255	1.213	3.3	70	0.00	21.42
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.478	-0.7	73	0.00	22.95
33	t	Dibenz[a,h]anthracene	1.217	1.225	-0.7	72	0.00	22.98
34	t	Benzo[g,h,i]perylene	1.278	1.279	-0.1	73	0.00	23.32

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E4M3004-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66766.D
Project: BMS-ICM, Humacao, PR

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	72	0.00	9.62
		----------	True	Calc.	% Drift	----------		
36	t	1,4-Dioxane	1.000	1.190	-19.0	86	0.00	2.19
		----------	AvgRF	CCRF	% Dev	----------		
37	t	1-Methylnaphthalene	1.198	1.401	-16.9	90	0.00	9.69
38	I	Fluorene-d10a	1.000	1.000	0.0	69	0.00	12.61
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	5.000	4.499	10.0	69	0.00	12.88
		----------	AvgRF	CCRF	% Dev	----------		
40	t	1,2-Diphenylhydrazine	1.105	1.123	-1.6	61	0.00	13.02
41	t	n-nitrosodiphenylamine	0.785	0.783	0.3	60	0.00	12.97

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66787.D M4M2974SIM.M Mon Jul 11 15:14:59 2016 MANAGER

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E4M3006-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66795.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E4M3006\4m66795.D          Vial: 2
Acq On    : 12 Jul 2016  11:23 am                    Operator: hankc
Sample    : cc2974-1.0                               Inst    : GCMS4M
Misc      : op95277a,e4m3006                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M4M2974SIM.M (RTE Integrator)
Title        : Semi Volatile  GC/MS,zb-5 15m x .25mm x .50um
Last Update  : Mon Jul 11 15:14:51 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	68	-0.05	9.57
2	S	2-Fluorophenol	0.637	0.588	7.7	62	-0.04	3.98
3	S	Phenol-d5	1.005	0.981	2.4	64	-0.04	5.39
4	t	Phenol	1.088	1.021	6.2	63	-0.06	5.40
5	t	bis(2-Chloroethyl)ether	0.768	0.771	-0.4	65	-0.04	5.44
6	S	Nitrobenzene-d5	0.894	0.930	-4.0	70	-0.03	6.80
7	t	Naphthalene	2.792	2.773	0.7	66	-0.03	8.13
8	t	Hexachlorobutadiene	0.476	0.521	-9.5	75	-0.03	8.39
9	t	2-Methylnaphthalene	1.323	1.388	-4.9	77	-0.05	9.45
		----------	True	Calc.	% Drift	----------		
10	t	Hexachlorocyclopentadiene	2.000	3.243	-62.1#	163	-0.05	9.79
		----------	AvgRF	CCRF	% Dev	----------		
11	S	2-Fluorobiphenyl	1.610	1.826	-13.4	76	-0.05	10.24
12	I	Fluorene-d10	1.000	1.000	0.0	73	-0.05	12.56
13	t	Acenaphthylene	1.060	1.362	-28.5#	85	-0.05	11.22
14	t	Acenaphthene	0.658	0.824	-25.2#	81	-0.04	11.56
15	t	Dibenzofuran	1.070	1.076	-0.6	71	-0.04	11.94
16	t	Fluorene	1.183	1.161	1.9	64	-0.05	12.61
17	S	2,4,6-Tribromophenol	0.186	0.210	-12.9	74	-0.05	13.11
18	t	Hexachlorobenzene	0.395	0.479	-21.3#	84	-0.04	13.70
19	t	Pentachlorophenol	0.146	0.157	-7.5	69	-0.04	14.17
20	t	Phenanthrene	1.598	1.901	-19.0	78	-0.04	14.51
21	t	Anthracene	1.472	1.771	-20.3#	80	-0.06	14.60
22	I	Fluoranthene-d10	1.000	1.000	0.0	97	-0.04	16.75
23	t	Fluoranthene	1.169	1.014	13.3	77	-0.06	16.77
24	t	Pyrene	1.139	1.100	3.4	86	-0.06	17.17
25	S	Terphenyl-d14	0.565	0.569	-0.7	87	-0.04	17.56
26	t	Benzo[a]anthracene	0.988	0.962	2.6	89	-0.04	19.27
27	t	Chrysene	1.027	0.935	9.0	85	-0.06	19.31
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	92	-0.04	21.35
29	t	Benzo[b]fluoranthene	1.386	1.323	4.5	82	-0.04	20.93
30	t	Benzo[k]fluoranthene	1.343	1.209	10.0	78	-0.04	20.97
31	t	Benzo[a]pyrene	1.255	1.154	8.0	78	-0.04	21.38
32	t	Indeno[1,2,3-cd]pyrene	1.467	1.448	1.3	83	-0.07	22.88
33	t	Dibenz[a,h]anthracene	1.217	1.196	1.7	83	-0.06	22.92
34	t	Benzo[g,h,i]perylene	1.278	1.243	2.7	83	-0.06	23.27

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E4M3006-CC2974
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 4M66795.D
Project: BMS-ICM, Humacao, PR

35 I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	68	-0.05	9.57
	----------	True	Calc.	% Drift	----------		
36 t	1,4-Dioxane	1.000	0.982	1.8	67	-0.03	2.16
	----------	AvgRF	CCRF	% Dev	----------		
37 t	1-Methylnaphthalene	1.198	1.504	-25.5#	90	-0.05	9.64
38 I	Fluorene-d10a	1.000	1.000	0.0	73	-0.05	12.56
	----------	True	Calc.	% Drift	----------		
39 t	4,6-dinitro-2-methylpheno	5.000	4.541	9.2	74	-0.05	12.83
	----------	AvgRF	CCRF	% Dev	----------		
40 t	1,2-Diphenylhydrazine	1.105	1.212	-9.7	70	-0.05	12.97
41 t	n-nitrosodiphenylamine	0.785	0.759	3.3	62	-0.05	12.92

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m66787.D M4M2974SIM.M Tue Jul 12 14:11:31 2016 MANAGER

Initial Calibration Summary

Job Number: JC23654 **Sample:** E5P1496-ICC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29330.D
Project: BMS-ICM, Humacao, PR

Response Factor Report MS5P

Method : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration

Calibration Files
2 =5p29327.D 5 =5p29331a.D 25 =5p29332.D 80 =5p29328.D
100 =5p29326.D 50 =5p29330.D 1 =5p29329.D 10 =5p29333.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------									
2) 1,4-Dioxane	0.612	0.553	0.526	0.530	0.517	0.461	0.646	0.511	0.544	10.82
3) Pyridine	1.318	1.263	1.249	1.397	1.279	1.329	1.321	1.238	1.299	4.03
4) N-Nitrosodim	0.745	0.702	0.701	0.796	0.723	0.751	0.740	0.692	0.731	4.68
5) 2-Fluorophen	1.050	1.200	1.254	1.311	1.245	1.256	1.222	1.203	1.218	6.28
6) Indene	2.431	2.339	2.258	2.189	2.261	2.140	2.367	2.300	2.286	4.15
7) Cumene	3.289	3.227	3.136	3.173	3.098	3.061	3.272	3.088	3.168	2.74
8) Phenol-d5	1.447	1.470	1.506	1.579	1.514	1.511	1.320	1.482	1.479	5.08
9) Phenol	1.758	1.794	1.796	1.839	1.781	1.787	1.660	1.800	1.777	2.95
10) Aniline	1.997	2.001	1.908	1.876	1.740	1.843	2.015	1.950	1.916	4.93
11) bis(2-Chloro	1.196	1.152	1.135	1.182	1.123	1.137	1.147	1.172	1.155	2.18
12) 2-Chlorophen	1.460	1.428	1.408	1.437	1.396	1.391	1.461	1.416	1.424	1.87
13) Decane	1.327	1.267	1.180	1.171	1.162	1.140	1.331	1.198	1.222	6.21
14) 1,3-Dichloro	1.642	1.588	1.542	1.526	1.488	1.497	1.625	1.560	1.559	3.61
15) 1,4-Dichloro	1.562	1.564	1.516	1.411	1.477	1.476	1.676	1.496	1.522	5.22
16) Benzyl alcoh	0.838	0.830	0.845	0.818	0.839	0.846	0.782	0.827	0.828	2.51
17) 1,2-Dichloro	1.526	1.497	1.406	1.315	1.362	1.376	1.586	1.446	1.439	6.36
18) Acetophenone	1.809	1.777	1.683	1.677	1.768	1.632	1.848	1.755	1.744	4.20
19) 2-Methylphen	1.217	1.182	1.165	1.147	1.152	1.128	1.159	1.186	1.167	2.36
20) 2,2'-oxybis(	1.716	1.572	1.502	1.453	1.420	1.424	1.632	1.524	1.531	6.85
21) 3&4-Methylph	1.277	1.247	1.210	1.207	1.256	1.168	1.283	1.232	1.235	3.14
22) n-Nitroso-di	0.844	0.771	0.753	0.747	0.781	0.730	0.861	0.788	0.784	5.90
23) Hexachloroet	0.465	0.475	0.460	0.475	0.459	0.450	0.439	0.461	0.461	2.60
24) I Naphthalene-d8	----------ISTD----------									
25) Nitrobenzene	0.269	0.292	0.299	0.283	0.302	0.292	0.304	0.288	0.291	3.90
26) Nitrobenzene	0.287	0.304	0.303	0.284	0.306	0.295	0.322	0.298	0.300	3.93
27) Quinoline	0.663	0.662	0.666	0.637	0.652	0.667	0.696	0.659	0.663	2.50
28) Isophorone	0.553	0.550	0.541	0.519	0.547	0.543	0.468	0.530	0.531	5.26
29) 2-Nitropheno	0.181	0.182	0.195	0.185	0.195	0.196	0.181	0.190	0.188	3.48
30) 2,4-Dimethyl	0.337	0.320	0.318	0.293	0.314	0.309	0.349	0.306	0.318	5.55
31) Benzoic acid		0.075	0.159	0.209	0.228	0.206		0.081	0.160	41.99
----- Quadratic regression -----								Coefficient =		0.9981
Response Ratio = -0.02120 + 0.19057 *A + 0.01755 *A^2										
32) bis(2-Chloro	0.357	0.350	0.338	0.311	0.332	0.335	0.368	0.330	0.340	5.19
33) 2,4-Dichloro	0.282	0.281	0.282	0.268	0.275	0.281	0.273	0.283	0.278	2.00
34) 2,6-Dichloro	0.286	0.278	0.273	0.250	0.270	0.266	0.299	0.266	0.273	5.29
35) 1,3,5-Trichl	0.326	0.309	0.301	0.269	0.288	0.285	0.327	0.294	0.300	6.66
36) 1,2,4-Trichl	0.291	0.290	0.283	0.264	0.275	0.278	0.302	0.281	0.283	4.02
37) 1,2,3-Trichl	0.286	0.288	0.281	0.254	0.271	0.270	0.290	0.269	0.276	4.49
38) Naphthalene	0.958	0.969	0.945	0.872	0.921	0.916	1.006	0.936	0.940	4.25
39) 4-Chloroanil	0.395	0.398	0.401	0.369	0.392	0.391	0.389	0.399	0.392	2.57
40) 2,3-Dichloro	0.344	0.340	0.325	0.297	0.324	0.317	0.331	0.328	0.326	4.42
41) Caprolactam	0.135	0.125	0.127	0.126	0.132	0.130	0.133	0.123	0.129	3.42
42) Hexachlorobu	0.148	0.146	0.146	0.135	0.147	0.142	0.150	0.142	0.145	3.29

Initial Calibration Summary

Job Number: JC23654 **Sample:** E5P1496-ICC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29330.D
Project: BMS-ICM, Humacao, PR

```
43) 4-Chloro-3-m 0.294 0.277 0.279 0.264 0.281 0.277 0.241 0.276 0.274   5.66
44) 2-Methylnaph 0.553 0.556 0.540 0.494 0.534 0.527 0.477 0.539 0.528   5.28
45) 1-Methylnaph 0.607 0.581 0.567 0.519 0.551 0.553 0.599 0.564 0.567   4.97
46) Dimethylnaph 0.581 0.584 0.577 0.518 0.559 0.503 0.580 0.570 0.559   5.58

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy       0.197 0.262 0.236 0.271 0.240       0.225 0.238  11.16
49) 2,4,6-Trichl 0.287 0.298 0.333 0.272 0.299 0.279 0.300 0.316 0.298   6.61
50) 2,4,5-Trichl 0.294 0.300 0.347 0.293 0.303 0.299 0.307 0.323 0.308   5.91
51) 2-Fluorobiph 1.111 1.073 1.179 0.953 1.022 0.981 1.124 1.121 1.070   7.33
52) 2-Chloronaph 1.017 0.970 1.060 0.848 0.906 0.877 1.021 1.008 0.964   7.99
53) Biphenyl     1.317 1.311 1.453 1.150 1.259 1.209 1.356 1.369 1.303   7.34
54) 2-Nitroanili 0.233 0.240 0.279 0.239 0.261 0.217 0.257 0.252 0.247   7.77
55) Dimethylphth 0.838 1.063 1.185 0.956 1.029 0.891 1.061 1.000 1.003  10.85
56) Acenaphthyle 1.299 1.606 1.710 1.441 1.542 1.520 1.600 1.513 1.529   8.01
57) 2,6-Dinitrot 0.172 0.223 0.266 0.231 0.246 0.224 0.203 0.219 0.223  12.57
58) 3-Nitroanili 0.260 0.273 0.297 0.282 0.291 0.295 0.262 0.276 0.279   5.12
59) Acenaphthene 1.008 0.974 0.958 0.856 0.937 0.894 0.969 0.938 0.942   5.08
60) 2,4-Dinitrop 0.020 0.036 0.097 0.124 0.137 0.124       0.060 0.085  54.83
         ----- Quadratic regression -----                Coefficient =  0.9980
              Response Ratio = -0.01715 + 0.10855 *A + 0.00606 *A^2

61) 4-Nitropheno 0.104 0.107 0.129 0.123 0.142 0.125 0.086 0.111 0.116  14.89
62) Dibenzofuran 1.293 1.370 1.262 1.175 1.256 1.252 1.436 1.303 1.293   6.14
63) 2,4-Dinitrot 0.291 0.312 0.320 0.312 0.328 0.324 0.266 0.304 0.307   6.66
64) 2,3,4,6-Tetr 0.183 0.203 0.260 0.249 0.264 0.256 0.202 0.233 0.231  13.46
65) Diethylphtha 0.948 0.941 1.093 0.944 1.026 0.994 1.049 1.014 1.001   5.49
66) Fluorene     1.101 0.984 1.114 0.906 1.041 0.972 1.116 1.028 1.033   7.37
67) 4-Chlorophen 0.472 0.417 0.474 0.390 0.454 0.421 0.485 0.432 0.443   7.48
68) 4-Nitroanili 0.271 0.251 0.304 0.281 0.292 0.289 0.280 0.285 0.282   5.64

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.035 0.049 0.093 0.113 0.120 0.115       0.075 0.086  39.36
         ----- Quadratic regression -----                Coefficient =  0.9985
              Response Ratio = -0.00663 + 0.10701 *A + 0.00592 *A^2

71) n-Nitrosodip 0.466 0.404 0.413 0.404 0.429 0.434 0.496 0.441 0.436   7.34
72) 1,2-Diphenyl 0.597 0.530 0.566 0.526 0.590 0.562 0.569 0.575 0.565   4.51
73) 2,4,6-Tribro 0.082 0.071 0.089 0.086 0.089 0.089 0.089 0.085 0.085   7.26
74) 4-Bromopheny 0.191 0.177 0.175 0.166 0.179 0.177 0.173 0.171 0.176   4.22
75) Hexachlorobe 0.195 0.189 0.187 0.177 0.187 0.189 0.206 0.190 0.190   4.35
76) Pentachlorop 0.037 0.053 0.092 0.100 0.113 0.105       0.071 0.082  34.99
         ----- Quadratic regression -----                Coefficient =  0.9966
              Response Ratio = -0.00688 + 0.09035 *A + 0.00433 *A^2

77) Phenanthrene 0.928 0.935 0.888 0.811 0.874 0.866 0.964 0.904 0.896   5.33
78) Anthracene   0.949 0.984 0.920 0.842 0.897 0.896 0.960 0.942 0.924   4.86
79) Carbazole    0.933 0.922 0.907 0.831 0.878 0.887 0.923 0.911 0.899   3.70
80) Di-n-butylph 1.094 1.123 1.106 1.015 1.106 1.091 1.073 1.086 1.087   2.99
81) Fluoranthene 0.966 0.984 0.954 0.878 0.923 0.937 1.032 0.950 0.953   4.71
82) Octadecane   0.383 0.401 0.384 0.347 0.382 0.373 0.406 0.390 0.383   4.75

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.224 1.220 1.173 1.107 1.125 1.142 1.235 1.192 1.177   4.12
85) Terphenyl-d1 0.772 0.787 0.761 0.740 0.746 0.742 0.783 0.766 0.762   2.37
86) Butylbenzylp 0.575 0.573 0.586 0.562 0.583 0.572 0.555 0.564 0.571   1.81
87) Benzo[a]anth 1.155 1.121 1.058 1.006 1.062 1.024 1.183 1.069 1.085   5.76
88) 3,3'-Dichlor 0.432 0.405 0.417 0.400 0.406 0.408 0.430 0.404 0.413   2.98
89) Chrysene     1.090 1.076 1.040 1.001 1.034 1.018 1.146 1.039 1.056   4.41
90) bis(2-Ethylh 0.774 0.776 0.787 0.759 0.799 0.770 0.745 0.758 0.771   2.26
```

Initial Calibration Summary

Job Number: JC23654 **Sample:** E5P1496-ICC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29330.D
Project: BMS-ICM, Humacao, PR

```
 91) I   Perylene-d12          ----------------ISTD---------------------
 92) Di-n-octylph 1.467 1.449 1.469 1.387 1.532 1.443 1.452 1.427 1.453   2.83
 93) Benzo[b]fluo 1.231 1.214 1.123 1.079 1.210 1.118 1.316 1.167 1.182   6.44
 94) Benzo[k]fluo 1.259 1.160 1.099 0.998 1.094 1.056 1.256 1.110 1.129   8.14
 95) Benzo[a]pyre 1.107 1.066 1.045 0.998 1.063 1.041 1.188 1.045 1.069   5.31
 96) Indeno[1,2,3 0.939 0.993 1.009 1.014 1.088 1.047 1.108 0.973 1.021   5.58
 97) Dibenz(a,h)a 0.982 0.923 0.943 0.918 0.964 0.950 1.090 0.932 0.963   5.78
 98) Dibenz[a,h]a 1.070 1.038 1.051 1.012 1.070 1.045 1.230 1.058 1.072   6.23
 99) 7,12-Dimethy 0.544 0.559 0.522 0.492 0.559 0.513 0.626 0.535 0.544   7.39
100) Benzo[g,h,i] 1.055 1.054 1.051 1.035 1.106 1.047 1.215 1.032 1.075   5.70


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

          M5P1496.M         Sun Jul 03 16:08:47 2016   RPT1
```

Initial Calibration Summary

Job Number: JC23654 **Sample:** E5P1497-ICC1497
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29338.D
Project: BMS-ICM, Humacao, PR

Response Factor Report MS5P

Method : C:\MSDCHEM\1\METHODS\M5P1497.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration

Calibration Files
2 =5p29342.D 5 =5p29341.D 25 =5p29339.D 80 =5p29337.D
100 =5p29336.D 50 =5p29338.D 1 =5p29343.D 10 =5p29340.D

Compound	2	5	25	80	100	50	1	10	Avg	%RSD
101) 1,4-Dichlorobenzene-d	ISTD									
102) Benzaldehyde	1.175	1.137	1.037	0.734		0.976	1.114	1.025	1.028	14.31
103) Acenaphthene-d10a	ISTD									
104) 1,2,4,5-Tetr	0.549	0.545	0.476	0.435	0.493	0.458	0.556	0.498	0.501	8.99
105) Chrysene-d12a	ISTD									
106) Benzidine		0.507	0.449	0.471	0.506	0.466		0.616	0.503	11.95
107) 1-chloroocta	0.334	0.357	0.307	0.311	0.292	0.297	0.355	0.305	0.320	8.02
108) Phenanthrene-d10a	ISTD									
109) o-terphenyl	0.621	0.654	0.548	0.483	0.517	0.542	0.646	0.574	0.573	10.87
110) Atrazine	0.117	0.114	0.105	0.101	0.100	0.097	0.113	0.108	0.107	6.82
111) I Naphthalene-d8a	ISTD									
112) Hydroquinone	0.261	0.320	0.343	0.329	0.338	0.347	0.246	0.300	0.310	12.38

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

M5P1496.M Sun Jul 03 16:22:01 2016 RPT1

Initial Calibration Verification

Job Number: JC23654 **Sample:** E5P1497-ICV1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29344.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29344.D          Vial: 10
Acq On    :  1 Jul 2016   8:27 pm                    Operator: ashleyn
Sample    : icv1496-50                               Inst    : MS5P
Misc      : op94797,e5p1497                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	5.00
9	t	Phenol	1.777	1.503	15.4	85	0.00	4.67
12	t	2-Chlorophenol	1.424	1.292	9.3	94	0.00	4.81
19	t	2-Methylphenol	1.167	1.129	3.3	101	0.00	5.23
21	t	3&4-Methylphenol	1.235	1.187	3.9	103	0.00	5.37
24	I	Naphthalene-d8	1.000	1.000	0.0	92	0.00	6.21
29	t	2-Nitrophenol	0.188	0.187	0.5	88	0.00	5.84
30	t	2,4-Dimethylphenol	0.318	0.313	1.6	94	0.00	5.88
33	t	2,4-Dichlorophenol	0.278	0.271	2.5	89	0.00	6.07
34	t	2,6-Dichlorophenol	0.273	0.263	3.7	91	0.00	6.29
43	t	4-Chloro-3-methylphenol	0.274	0.259	5.5	87	0.00	6.75
47	I	Acenaphthene-d10	1.000	1.000	0.0	80	0.00	7.93
49	t	2,4,6-Trichlorophenol	0.298	0.314	-5.4	90	0.00	7.18
50	t	2,4,5-Trichlorophenol	0.308	0.317	-2.9	85	0.00	7.22
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	38.680	22.6	48#	0.00	7.98
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.116	0.117	-0.9	75	0.00	8.04
64		2,3,4,6-Tetrachlorophenol	0.231	0.234	-1.3	73	0.00	8.25
69	I	Phenanthrene-d10	1.000	1.000	0.0	77	0.00	9.48
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	46.168	7.7	66	0.00	8.51
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	50.000	46.485	7.0	60	0.00	9.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:28 2016 RPT1

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E5P1497-ICV1496
Lab FileID: 5P29345.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E5P1497\5p29345.D Vial: 11
Acq On : 1 Jul 2016 8:52 pm Operator: ashleyn
Sample : icv1496-50 Inst : MS5P
Misc : op94797,e5p1497 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Sun Jul 03 15:53:32 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	5.00
3	t	Pyridine	1.299	1.303	-0.3	88	0.11	2.82
10		Aniline	1.916	2.076	-8.4	101	0.00	4.71
16	t	Benzyl alcohol	0.828	0.911	-10.0	96	0.00	5.13
24	I	Naphthalene-d8	1.000	1.000	0.0	89	0.00	6.21
39	t	4-Chloroaniline	0.392	0.427	-8.9	98	0.00	6.28
44	t	2-Methylnaphthalene	0.528	0.556	-5.3	94	0.00	6.90
47	I	Acenaphthene-d10	1.000	1.000	0.0	79	0.00	7.93
54	t	2-Nitroaniline	0.247	0.273	-10.5	99	0.00	7.48
58	t	3-Nitroaniline	0.279	0.317	-13.6	85	0.00	7.88
62	t	Dibenzofuran	1.293	1.546	-19.6	97	0.00	8.12
68	t	4-Nitroaniline	0.282	0.299	-6.0	81	0.00	8.49
69	I	Phenanthrene-d10	1.000	1.000	0.0	75	0.00	9.48
79	t	Carbazole	0.899	0.980	-9.0	83	0.00	9.76

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:30 2016 RPT1

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E5P1497-ICV1496
Lab FileID: 5P29346.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29346.D          Vial: 12
Acq On    :  1 Jul 2016   9:18 pm                    Operator: ashleyn
Sample    : icv1496-50                               Inst    : MS5P
Misc      : op94797,e5p1497                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	5.00
5	S	2-Fluorophenol	1.218	1.294	-6.2	105	0.00	3.84
8	S	Phenol-d5	1.479	1.514	-2.4	102	0.00	4.66
24	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00	6.21
25	S	Nitrobenzene-d5	0.291	0.323	-11.0	103	0.00	5.52
47	I	Acenaphthene-d10	1.000	1.000	0.0	80	0.00	7.93
51	S	2-Fluorobiphenyl	1.070	1.320	-23.4	107	0.00	7.26
69	I	Phenanthrene-d10	1.000	1.000	0.0	71	0.00	9.48
73	S	2,4,6-Tribromophenol	0.085	0.098	-15.3	79	0.00	8.72
83	I	Chrysene-d12	1.000	1.000	0.0	71	0.00	13.07
85	S	Terphenyl-d14	0.762	0.854	-12.1	82	0.00	11.55

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 5p29357a.D M5P1496.M        Sun Jul 03 16:07:32 2016   RPT1
```

Initial Calibration Verification

Job Number: JC23654 **Sample:** E5P1497-ICV1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29347.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E5P1497\5p29347.D Vial: 13
Acq On : 1 Jul 2016 9:43 pm Operator: ashleyn
Sample : icv1496-50 Inst : MS5P
Misc : op94797,e5p1497 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Wed Jul 06 11:05:07 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	5.00
4	t	N-Nitrosodimethylamine	0.731	0.697	4.7	90	0.00	2.69
11	t	bis(2-Chloroethyl)ether	1.155	1.247	-8.0	106	0.00	4.75
14	t	1,3-Dichlorobenzene	1.559	1.599	-2.6	104	0.00	4.96
15	t	1,4-Dichlorobenzene	1.522	1.543	-1.4	102	0.00	5.02
17	t	1,2-Dichlorobenzene	1.439	1.494	-3.8	105	0.00	5.16
20	t	2,2'-oxybis(1-Chloropropa	1.531	1.475	3.7	101	0.00	5.25
22	t	n-Nitroso-di-n-propylamin	0.784	0.757	3.4	101	0.00	5.37
23	t	Hexachloroethane	0.461	0.479	-3.9	103	0.00	5.49
24	I	Naphthalene-d8	1.000	1.000	0.0	87	0.00	6.21
26	t	Nitrobenzene	0.300	0.317	-5.7	94	0.00	5.54
28	t	Isophorone	0.531	0.589	-10.9	95	0.00	5.76
32	t	bis(2-Chloroethoxy)methan	0.340	0.381	-12.1	99	0.00	5.97
36	t	1,2,4-Trichlorobenzene	0.283	0.319	-12.7	100	0.00	6.16
38	t	Naphthalene	0.940	1.016	-8.1	97	0.00	6.23
42	t	Hexachlorobutadiene	0.145	0.166	-14.5	102	0.00	6.36
47	I	Acenaphthene-d10	1.000	1.000	0.0	74	0.00	7.93
48	t	Hexachlorocyclopentadiene	0.238	0.248	-4.2	76	0.00	7.07
52	t	2-Chloronaphthalene	0.964	1.162	-20.5	97	0.00	7.38
55	t	Dimethylphthalate	1.003	1.190	-18.6	98	0.00	7.65
56	t	Acenaphthylene	1.529	1.797	-17.5	87	0.00	7.79
57	t	2,6-Dinitrotoluene	0.223	0.266	-19.3	87	0.00	7.71
59	t	Acenaphthene	0.942	1.110	-17.8	91	0.00	7.96
63	t	2,4-Dinitrotoluene	0.307	0.331	-7.8	75	0.00	8.11
65	t	Diethylphthalate	1.001	1.152	-15.1	85	0.00	8.35
66	t	Fluorene	1.033	1.159	-12.2	88	0.00	8.47
67	t	4-Chlorophenyl-phenylethe	0.443	0.520	-17.4	91	0.00	8.47
69	I	Phenanthrene-d10	1.000	1.000	0.0	67	-0.02	9.48
71	t	n-Nitrosodiphenylamine	0.436	0.562	-28.9	87	0.00	8.58
72	t	1,2-Diphenylhydrazine	0.565	0.706	-25.0	84	0.00	8.63
75	t	Hexachlorobenzene	0.190	0.234	-23.2	83	0.00	9.06
77	t	Phenanthrene	0.896	1.063	-18.6	82	0.00	9.51
78	t	Anthracene	0.924	1.059	-14.6	79	0.00	9.57
80	t	Di-n-butylphthalate	1.087	1.309	-20.4	80	0.00	10.20
81	t	Fluoranthene	0.953	1.123	-17.8	80	0.00	11.01
83	I	Chrysene-d12	1.000	1.000	0.0	69	-0.05	13.08
84	t	Pyrene	1.177	1.322	-12.3	79	-0.04	11.32
86	t	Butylbenzylphthalate	0.571	0.628	-10.0	75	-0.04	12.28

Initial Calibration Verification

Job Number: JC23654 **Sample:** E5P1497-ICV1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29347.D
Project: BMS-ICM, Humacao, PR

87	t	Benzo[a]anthracene	1.085	1.128	-4.0	76	-0.05	13.06
89	t	Chrysene	1.056	1.093	-3.5	74	-0.05	13.11
90	t	bis(2-Ethylhexyl)phthalat	0.771	0.838	-8.7	75	-0.05	13.17
91	I	Perylene-d12	1.000	1.000	0.0	68	-0.08	15.13
92	t	Di-n-octylphthalate	1.453	1.539	-5.9	73	-0.07	14.13
93	t	Benzo[b]fluoranthene	1.182	1.180	0.2	72	-0.07	14.61
94	t	Benzo[k]fluoranthene	1.129	1.150	-1.9	74	-0.07	14.65
95	t	Benzo[a]pyrene	1.069	1.097	-2.6	72	-0.07	15.05
96	t	Indeno[1,2,3-cd]pyrene	1.021	1.088	-6.6	71	-0.07	16.84
98	t	Dibenz[a,h]anthracene	1.072	1.056	1.5	69	-0.07	16.87
100	t	Benzo[g,h,i]perylene	1.075	1.056	1.8	69	-0.07	17.33

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Wed Jul 06 12:27:05 2016 RPT1

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E5P1497-ICV1497
Lab FileID: 5P29347A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29347a.D        Vial: 13
Acq On    :  1 Jul 2016   9:43 pm                   Operator: ashleyn
Sample    : icv1497-50                              Inst    : MS5P
Misc      : op94797,e5p1497                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 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.
103	Acenaphthene-d10a	1.000	1.000	0.0	106	0.00	7.93
104	1,2,4,5-Tetrachlorobenzen	0.501	0.528	-5.4	123	0.00	7.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:36 2016 RPT1

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E5P1497-ICV1496
Lab FileID: 5P29348.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E5P1497\5p29348.D Vial: 14
Acq On : 1 Jul 2016 10:09 pm Operator: ashleyn
Sample : icv1496-50 Inst : MS5P
Misc : op94797,e5p1497 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update : Sun Jul 03 15:53:32 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	5.00
2	t	1,4-Dioxane	0.544	0.544	0.0	116	0.01	2.44
6	t	Indene	2.286	2.650	-15.9	122	0.00	5.24
7	t	Cumene	3.168	3.348	-5.7	107	0.00	4.29
13	t	Decane	1.222	1.286	-5.2	111	0.00	4.85
18	t	Acetophenone	1.744	1.904	-9.2	115	0.00	5.37
24	I	Naphthalene-d8	1.000	1.000	0.0	90	0.00	6.21
27	t	Quinoline	0.663	0.544	17.9	73	0.00	6.55
40	t	2,3-Dichloroaniline	0.326	0.270	17.2	76	0.00	7.18
41	t	Caprolactam	0.129	0.128	0.8	88	0.00	6.60
45	t	1-Methylnaphthalene	0.567	0.634	-11.8	103	0.00	7.00
46	t	Dimethylnaphthalene	0.559	0.636	-13.8	113	0.00	7.52
47	I	Acenaphthene-d10	1.000	1.000	0.0	78	0.00	7.93
53	t	Biphenyl	1.303	1.594	-22.3	102	0.00	7.36
69	I	Phenanthrene-d10	1.000	1.000	0.0	72	0.00	9.48
82	t	Octadecane	0.383	0.517	-35.0#	99	0.00	9.36
83	I	Chrysene-d12	1.000	1.000	0.0	75	0.00	13.07
91	I	Perylene-d12	1.000	1.000	0.0	61	0.00	15.13
99	t	7,12-Dimethylbenz(a)anthr	0.544	0.689	-26.7	81	0.00	14.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:38 2016 RPT1

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E5P1497-ICV1497
Lab FileID: 5P29348A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29348a.D        Vial: 14
Acq On    :  1 Jul 2016  10:09 pm                   Operator: ashleyn
Sample    : icv1497-50                              Inst    : MS5P
Misc      : op94797,e5p1497                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	121	0.00	5.00
102	Benzaldehyde	1.028	1.205	-17.2	150	0.00	4.60

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:40 2016 RPT1

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E5P1497-ICV1496
Lab FileID: 5P29349.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29349.D          Vial: 15
Acq On    :  1 Jul 2016  10:34 pm                    Operator: ashleyn
Sample    : icv1496-50                               Inst    : MS5P
Misc      : op94797,e5p1497                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83	I	Chrysene-d12	1.000	1.000	0.0	90	0.00	13.07
88	t	3,3'-Dichlorobenzidine	0.413	0.397	3.9	88	0.00	13.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:42 2016 RPT1

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E5P1497-ICV1497
Lab FileID: 5P29349A.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29349a.D        Vial: 15
Acq On    :  1 Jul 2016  10:34 pm                   Operator: ashleyn
Sample    : icv1497-50                              Inst    : MS5P
Misc      : op94797,e5p1497                         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 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.
 ---------------------------------------------------------------------------


105     Chrysene-d12a              1.000   1.000      0.0  112   0.00   13.07
106     Benzidine                  0.503   0.634    -26.0  152   0.00   11.20
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range              SPCC's out = 0  CCC's out = 0
     5p29357a.D M5P1496.M        Sun Jul 03 16:07:44 2016   RPT1
```

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E5P1497-ICV1497
Lab FileID: 5P29350.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1497\5p29350.D          Vial: 16
Acq On    :  1 Jul 2016  11:00 pm                    Operator: ashleyn
Sample    : icv1497-50                               Inst    : MS5P
Misc      : op94797,e5p1497                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Sun Jul 03 15:53:32 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
111 I	Naphthalene-d8a	1.000	1.000	0.0	104	0.00	6.21
112	Hydroquinone	0.310	0.316	-1.9	94	-0.05	6.60

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Sun Jul 03 16:07:46 2016 RPT1

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E5P1500-ICV1496
Lab FileID: 5P29399.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1500\5p29399.D          Vial: 2
Acq On    :  5 Jul 2016   9:26 am                    Operator: ashleyd
Sample    : icv1496-50                               Inst    : MS5P
Misc      : op94797,e5p1500                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Wed Jul 06 11:05:07 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.
69	I	Phenanthrene-d10	1.000	1.000	0.0	62	-0.02	9.48
74	t	4-Bromophenyl-phenylether	0.176	0.187	-6.3	66	-0.01	8.98

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Wed Jul 06 12:26:20 2016 RPT1

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: E5P1500-ICV1497
Lab FileID: 5P29400.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1500\5p29400.D          Vial: 3
Acq On    :  5 Jul 2016   9:51 am                    Operator: ashleyd
Sample    : icv1497-50                               Inst    : MS5P
Misc      : op94797,e5p1500                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Wed Jul 06 11:05:07 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.
108	Phenanthrene-d10a	1.000	1.000	0.0	102	-0.02	9.48
110	Atrazine	0.107	0.105	1.9	111	-0.01	9.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Wed Jul 06 12:26:22 2016 RPT1

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E5P1510-CC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29599.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1510\5p29599.D          Vial: 2
Acq On    : 12 Jul 2016   4:19 pm                    Operator: robertl1
Sample    : cc1496-25                                Inst    : MS5P
Misc      : op95104,e5p1510                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Tue Jul 12 17:39:26 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	-0.03	4.91
2	t	1,4-Dioxane	0.544	0.574	-5.5	116	-0.06	2.34
3	t	Pyridine	1.299	1.341	-3.2	115	-0.05	2.63
4	t	N-Nitrosodimethylamine	0.731	0.757	-3.6	115	-0.06	2.59
5	S	2-Fluorophenol	1.218	1.246	-2.3	106	-0.03	3.76
6	t	Indene	2.286	2.476	-8.3	117	-0.03	5.15
7	t	Cumene	3.168	3.245	-2.4	110	-0.04	4.19
8	S	Phenol-d5	1.479	1.605	-8.5	114	0.00	4.59
9	t	Phenol	1.777	1.898	-6.8	113	0.00	4.60
10		Aniline	1.916	1.883	1.7	105	-0.03	4.61
11	t	bis(2-Chloroethyl)ether	1.155	1.239	-7.3	116	-0.03	4.66
12	t	2-Chlorophenol	1.424	1.430	-0.4	108	-0.02	4.73
13	t	Decane	1.222	1.562	-27.8#	141	-0.03	4.76
14	t	1,3-Dichlorobenzene	1.559	1.507	3.3	104	-0.03	4.86
15	t	1,4-Dichlorobenzene	1.522	1.486	2.4	105	-0.03	4.92
16	t	Benzyl alcohol	0.828	0.911	-10.0	115	-0.02	5.04
17	t	1,2-Dichlorobenzene	1.439	1.465	-1.8	111	-0.03	5.07
18	t	Acetophenone	1.744	1.976	-13.3	125	-0.02	5.29
19	t	2-Methylphenol	1.167	1.225	-5.0	112	0.00	5.16
20	t	2,2'-oxybis(1-Chloropropa	1.531	2.004	-30.9#	142	-0.02	5.16
21	t	3&4-Methylphenol	1.235	1.358	-10.0	120	0.00	5.30
22	t	n-Nitroso-di-n-propylamin	0.784	0.939	-19.8	133	-0.02	5.29
23	t	Hexachloroethane	0.461	0.453	1.7	105	-0.03	5.38
24	I	Naphthalene-d8	1.000	1.000	0.0	114	-0.03	6.12
25	S	Nitrobenzene-d5	0.291	0.330	-13.4	126	-0.03	5.43
26	t	Nitrobenzene	0.300	0.334	-11.3	126	-0.03	5.45
27	t	Quinoline	0.663	0.656	1.1	112	-0.01	6.47
28	t	Isophorone	0.531	0.593	-11.7	125	-0.03	5.67
29	t	2-Nitrophenol	0.188	0.199	-5.9	116	-0.03	5.75
30	t	2,4-Dimethylphenol	0.318	0.309	2.8	110	-0.02	5.80
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	25.000	32.751	-31.0#	167	0.01	5.92
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.340	0.354	-4.1	119	-0.02	5.88
33	t	2,4-Dichlorophenol	0.278	0.267	4.0	108	-0.02	5.99
34	t	2,6-Dichlorophenol	0.273	0.253	7.3	105	-0.02	6.21
35		1,3,5-Trichlorobenzene	0.300	0.288	4.0	109	-0.03	5.76
36	t	1,2,4-Trichlorobenzene	0.283	0.255	9.9	103	-0.03	6.06
37		1,2,3-Trichlorobenzene	0.276	0.255	7.6	103	-0.03	6.28

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E5P1510-CC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29599.D
Project: BMS-ICM, Humacao, PR

38	t	Naphthalene	0.940	0.916	2.6	110	-0.03	6.14
39	t	4-Chloroaniline	0.392	0.388	1.0	110	-0.02	6.20
40	t	2,3-Dichloroaniline	0.326	0.312	4.3	109	-0.02	7.09
41	t	Caprolactam	0.129	0.156	-20.9#	139	0.00	6.53
42	t	Hexachlorobutadiene	0.145	0.128	11.7	100	-0.03	6.26
43	t	4-Chloro-3-methylphenol	0.274	0.281	-2.6	115	0.00	6.68
44	t	2-Methylnaphthalene	0.528	0.522	1.1	110	-0.02	6.81
45	t	1-Methylnaphthalene	0.567	0.549	3.2	110	-0.02	6.91
46	t	Dimethylnaphthalene	0.559	0.538	3.8	106	0.00	7.42
47	I	Acenaphthene-d10	1.000	1.000	0.0	127	-0.04	7.84
48	t	Hexachlorocyclopentadiene	0.238	0.200	16.0	97	-0.05	6.97
49	t	2,4,6-Trichlorophenol	0.298	0.279	6.4	106	-0.04	7.10
50	t	2,4,5-Trichlorophenol	0.308	0.283	8.1	103	-0.04	7.14
51	S	2-Fluorobiphenyl	1.070	0.965	9.8	104	-0.04	7.17
52	t	2-Chloronaphthalene	0.964	0.886	8.1	106	-0.04	7.29
53	t	Biphenyl	1.303	1.227	5.8	107	-0.04	7.26
54	t	2-Nitroaniline	0.247	0.296	-19.8	134	-0.03	7.39
55	t	Dimethylphthalate	1.003	1.019	-1.6	109	-0.03	7.57
56	t	Acenaphthylene	1.529	1.547	-1.2	115	-0.04	7.69
57	t	2,6-Dinitrotoluene	0.223	0.237	-6.3	112	-0.03	7.63
58	t	3-Nitroaniline	0.279	0.303	-8.6	129	-0.03	7.79
59	t	Acenaphthene	0.942	0.933	1.0	123	-0.03	7.87
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	50.000	47.754	4.5	126	-0.03	7.90
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.116	0.149	-28.4#	147	0.00	7.99
62	t	Dibenzofuran	1.293	1.281	0.9	129	-0.04	8.03
63	t	2,4-Dinitrotoluene	0.307	0.332	-8.1	131	-0.03	8.02
64		2,3,4,6-Tetrachlorophenol	0.231	0.227	1.7	111	-0.03	8.17
65	t	Diethylphthalate	1.001	1.076	-7.5	125	-0.03	8.26
66	t	Fluorene	1.033	1.020	1.3	116	-0.03	8.38
67	t	4-Chlorophenyl-phenylethe	0.443	0.423	4.5	113	-0.04	8.37
68	t	4-Nitroaniline	0.282	0.289	-2.5	120	-0.02	8.40
69	I	Phenanthrene-d10	1.000	1.000	0.0	113	-0.04	9.38
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	25.000	22.245	11.0	106	-0.03	8.43
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.436	0.417	4.4	114	-0.04	8.49
72	t	1,2-Diphenylhydrazine	0.565	0.652	-15.4	130	-0.04	8.54
73	S	2,4,6-Tribromophenol	0.085	0.073	14.1	92	-0.04	8.63
74	t	4-Bromophenyl-phenylether	0.176	0.159	9.7	103	-0.05	8.88
75	t	Hexachlorobenzene	0.190	0.174	8.4	105	-0.04	8.96
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	50.000	38.997	22.0#	84	-0.03	9.18
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	0.896	0.870	2.9	111	-0.04	9.41
78	t	Anthracene	0.924	0.907	1.8	111	-0.04	9.47
79	t	Carbazole	0.899	0.869	3.3	108	-0.03	9.66
80	t	Di-n-butylphthalate	1.087	1.162	-6.9	119	-0.04	10.09
81	t	Fluoranthene	0.953	0.924	3.0	109	-0.04	10.90
82	t	Octadecane	0.383	0.473	-23.5#	139	-0.04	9.26

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E5P1510-CC1496
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29599.D
Project: BMS-ICM, Humacao, PR

83	I	Chrysene-d12	1.000	1.000	0.0	104	-0.06	12.96
84	t	Pyrene	1.177	1.203	-2.2	106	-0.07	11.20
85	S	Terphenyl-d14	0.762	0.717	5.9	98	-0.06	11.44
86	t	Butylbenzylphthalate	0.571	0.660	-15.6	117	-0.07	12.16
87	t	Benzo[a]anthracene	1.085	1.025	5.5	101	-0.06	12.95
88	t	3,3'-Dichlorobenzidine	0.413	0.408	1.2	101	-0.06	12.93
89	t	Chrysene	1.056	0.997	5.6	99	-0.06	13.00
90	t	bis(2-Ethylhexyl)phthalat	0.771	0.860	-11.5	113	-0.07	13.05
91	I	Perylene-d12	1.000	1.000	0.0	98	-0.07	15.02
92	t	Di-n-octylphthalate	1.453	1.680	-15.6	112	-0.07	14.01
93	t	Benzo[b]fluoranthene	1.182	1.143	3.3	100	-0.06	14.50
94	t	Benzo[k]fluoranthene	1.129	1.095	3.0	98	-0.06	14.54
95	t	Benzo[a]pyrene	1.069	1.031	3.6	97	-0.06	14.94
96	t	Indeno[1,2,3-cd]pyrene	1.021	1.027	-0.6	100	-0.10	16.68
97	t	Dibenz(a,h)acridine	0.963	0.917	4.8	95	-0.09	16.29
98	t	Dibenz[a,h]anthracene	1.072	1.007	6.1	94	-0.10	16.71
99	t	7,12-Dimethylbenz(a)anthr	0.544	0.491	9.7	92	-0.06	14.50
100	t	Benzo[g,h,i]perylene	1.075	1.010	6.0	94	-0.11	17.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29356a.D M5P1496.M Wed Jul 13 11:11:18 2016 RPT1

6.7.25
6

Continuing Calibration Summary

Job Number: JC23654 **Sample:** E5P1510-CC1497
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** 5P29600.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\E5P1510\5p29600.D          Vial: 3
Acq On    : 12 Jul 2016   4:53 pm                    Operator: robertl1
Sample    : cc1497-50                                Inst    : MS5P
Misc      : op95104,e5p1510                          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\MSDCHEM\1\METHODS\M5P1496.M (RTE Integrator)
Title        : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
Last Update  : Tue Jul 12 17:39:26 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
101	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	111	-0.03	4.91
102	Benzaldehyde	1.028	1.187	-15.5	135	-0.03	4.51
103	Acenaphthene-d10a	1.000	1.000	0.0	109	-0.04	7.83
104	1,2,4,5-Tetrachlorobenzen	0.501	0.469	6.4	112	-0.04	6.98
105	Chrysene-d12a	1.000	1.000	0.0	95	-0.07	12.96
106	Benzidine	0.503	0.577	-14.7	118	-0.06	11.09
107	Phenanthrene-d10a	1.000	1.000	0.0	113	-0.05	9.38
108	Atrazine	0.107	0.102	4.7	119	-0.03	9.07
109 I	Naphthalene-d8a	1.000	1.000	0.0	114	-0.03	6.12
110	Hydroquinone	0.310	0.393	-26.8#	128	0.01	6.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p29357a.D M5P1496.M Wed Jul 13 11:11:47 2016 RPT1

Initial Calibration Summary

Job Number: JC23654 **Sample:** EM5307-ICC5307
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** M125266.D
Project: BMS-ICM, Humacao, PR

Response Factor Report Instrument #1

Method : C:\MSDCHEM\1\METHODS\MM5307.M (RTE Integrator)
Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update : Mon Jun 20 09:51:54 2016
Response via : Initial Calibration

Calibration Files
2 =M125262.D 5 =M125269.D 100 =M125264.D 50 =M125266.D
1 =M125263.D 10 =M125268.D 80 =M125265.D 25 =M125267.D

Compound	2	5	100	50	1	10	80	25	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD					
2) 1,4-Dioxane	0.713	0.654	0.525	0.582	0.709	0.554	0.538	0.581	0.607	12.34
3) Pyridine	1.215	1.410	1.317	1.439	1.115	1.294	1.319	1.403	1.314	8.26
4) N-Nitrosodim	0.697	0.660	0.629	0.687	0.746	0.600	0.631	0.658	0.664	6.91
5) 2-Fluorophen	1.265	1.293	1.207	1.287	1.324	1.231	1.241	1.284	1.266	3.00
6) Indene	2.503	2.574	1.669	2.148	2.702	2.219	1.834	2.294	2.243	15.96
7) Cumene	3.373	3.426	2.319	2.998	3.528	2.987	2.617	3.178	3.053	13.66
8) Phenol-d5	1.592	1.804	1.463	1.651	1.705	1.557	1.549	1.635	1.620	6.47
9) Phenol	1.877	1.956	1.478	1.814	1.889	1.709	1.590	1.846	1.770	9.30
10) Aniline	2.047	2.045	1.340	1.827	2.029	1.757	1.414	1.948	1.801	15.68
11) bis(2-Chloro	1.300	1.361	1.026	1.193	1.528	1.163	1.092	1.235	1.237	12.85
12) 2-Chlorophen	1.558	1.554	1.145	1.365	1.598	1.345	1.231	1.438	1.404	11.66
13) Decane	1.404	1.423	0.939	1.180	1.427	1.204	1.024	1.259	1.232	14.95
14) 1,3-Dichloro	1.764	1.811	1.265	1.537	1.804	1.556	1.383	1.592	1.589	12.53
15) 1,4-Dichloro	1.703	1.665	1.216	1.493	1.761	1.462	1.335	1.537	1.522	12.25
16) Benzyl alcoh	0.829	0.899	0.769	0.877	0.866	0.791	0.813	0.883	0.841	5.63
17) 1,2-Dichloro	1.664	1.663	1.108	1.374	1.735	1.447	1.211	1.459	1.458	15.39
18) Acetophenone	1.882	1.910	1.231	1.583	1.921	1.665	1.349	1.725	1.658	15.65
19) 2-Methylphen	1.284	1.363	0.999	1.223	1.255	1.166	1.074	1.258	1.203	9.84
20) 2,2'-oxybis(	0.471	0.484	0.346	0.405	0.477	0.420	0.364	0.431	0.425	12.19
21) 3&4-Methylph	1.321	1.410	1.034	1.286	1.479	1.243	1.116	1.328	1.277	11.44
22) n-Nitroso-di	0.915	1.003	0.703	0.849	0.985	0.882	0.750	0.911	0.875	12.00
23) Hexachloroet	0.638	0.613	0.476	0.560	0.638	0.566	0.508	0.578	0.572	10.19
24) I Naphthalene-d8					ISTD					
25) Nitrobenzene	0.391	0.404	0.336	0.362	0.401	0.355	0.338	0.370	0.370	7.21
26) Nitrobenzene	0.388	0.411	0.319	0.362	0.416	0.357	0.329	0.377	0.370	9.51
27) Quinoline	0.853	0.861	0.698	0.786	0.869	0.741	0.702	0.813	0.791	8.84
28) Isophorone	0.663	0.728	0.575	0.671	0.771	0.641	0.591	0.696	0.667	9.87
29) 2-Nitropheno	0.211	0.210	0.186	0.211	0.196	0.198	0.192	0.223	0.203	5.98
30) 2,4-Dimethyl	0.355	0.315	0.291	0.325	0.324	0.282	0.293	0.338	0.315	7.99
31) Benzoic acid									0.000#	-1.00
32) bis(2-Chloro	0.420	0.436	0.334	0.385	0.432	0.384	0.347	0.401	0.392	9.58
33) 2,4-Dichloro	0.349	0.352	0.279	0.328	0.351	0.314	0.298	0.345	0.327	8.46
34) 2,6-Dichloro	0.355	0.347	0.257	0.308	0.343	0.294	0.268	0.319	0.311	11.77
35) 1,3,5-Trichl	0.458	0.440	0.285	0.349	0.480	0.382	0.305	0.385	0.386	18.33
36) 1,2,4-Trichl	0.435	0.429	0.296	0.353	0.451	0.382	0.315	0.378	0.380	14.93
37) 1,2,3-Trichl	0.427	0.411	0.277	0.338	0.442	0.350	0.295	0.355	0.362	16.72
38) Naphthalene	1.222	1.207	0.828	1.032	1.296	1.058	0.914	1.088	1.080	14.72
39) 4-Chloroanil	0.514	0.517	0.360	0.459	0.528	0.444	0.379	0.475	0.459	13.69
40) 2,3-Dichloro	0.459	0.463	0.326	0.398	0.492	0.395	0.344	0.422	0.412	14.11
41) Caprolactam	0.134	0.151	0.149	0.157	0.140	0.138	0.147	0.153	0.146	5.55
42) Hexachlorobu	0.236	0.224	0.160	0.190	0.234	0.194	0.168	0.201	0.201	14.31
43) 4-Chloro-3-m	0.336	0.324	0.273	0.312	0.333	0.294	0.280	0.318	0.309	7.69
44) 2-Methylnaph	0.736	0.738	0.520	0.631	0.781	0.659	0.554	0.673	0.661	13.81
45) 1-Methylnaph	0.889	0.884	0.628	0.757	0.947	0.768	0.664	0.798	0.792	14.10

```
46) Dimethylnaph 0.811 0.780 0.563 0.688 0.853 0.701 0.597 0.732 0.715  14.04

47) I   Acenaphthene-d10      ----------------ISTD---------------------
48) Hexachlorocy 0.299 0.354 0.292 0.363 0.292 0.331 0.316 0.379 0.328  10.32
49) 2,4,6-Trichl 0.415 0.394 0.318 0.377 0.428 0.354 0.333 0.386 0.376  10.24
50) 2,4,5-Trichl 0.451 0.445 0.384 0.425 0.410 0.392 0.396 0.436 0.417   6.09
51) 2-Fluorobiph 1.536 1.570 1.101 1.323 1.674 1.348 1.193 1.401 1.393  13.92
52) 2-Chloronaph 1.320 1.351 0.922 1.112 1.464 1.160 0.981 1.174 1.186  15.64
53) Biphenyl     1.778 1.753 1.204 1.502 1.860 1.500 1.315 1.581 1.562  14.69
54) 2-Nitroanili 0.289 0.325 0.302 0.321 0.262 0.285 0.299 0.325 0.301   7.39
55) Dimethylphth 1.460 1.505 1.144 1.318 1.661 1.312 1.198 1.371 1.371  12.25
56) Acenaphthyle 2.088 2.195 1.545 1.897 2.204 1.896 1.674 1.981 1.935  12.18
57) 2,6-Dinitrot 0.271 0.308 0.287 0.319 0.258 0.282 0.294 0.317 0.292   7.47
58) 3-Nitroanili 0.301 0.350 0.341 0.373 0.285 0.330 0.344 0.372 0.337   9.26
59) Acenaphthene 1.316 1.324 0.977 1.150 1.451 1.179 1.040 1.214 1.206  12.91
60) 2,4-Dinitrop 0.037 0.051 0.203 0.187       0.080 0.200 0.151 0.130  55.51
            ---- Quadratic regression ----  Coefficient =  0.9988
              Response Ratio = -0.03472 + 0.18355 *A + 0.00555 *A^2

61) 4-Nitropheno 0.121 0.124 0.166 0.164       0.128 0.164 0.154 0.146  14.29
62) Dibenzofuran 1.918 1.959 1.294 1.594 2.024 1.688 1.402 1.696 1.697  15.52
63) 2,4-Dinitrot 0.384 0.434 0.333 0.398 0.350 0.393 0.356 0.416 0.383   9.01
64) 2,3,4,6-Tetr 0.283 0.302 0.323 0.353 0.256 0.287 0.332 0.341 0.310  10.75
65) Diethylphtha 1.417 1.429 1.097 1.288 1.401 1.240 1.148 1.331 1.294   9.66
66) Fluorene     1.556 1.607 1.161 1.377 1.683 1.390 1.245 1.453 1.434  12.45
67) 4-Chlorophen 0.777 0.783 0.553 0.651 0.833 0.660 0.586 0.689 0.691  14.34
68) 4-Nitroanili 0.293 0.354 0.345 0.359 0.289 0.326 0.340 0.359 0.333   8.46

69) I   Phenanthrene-d10      ----------------ISTD---------------------
70) 4,6-Dinitro- 0.049 0.047 0.170 0.155       0.076 0.168 0.132 0.114  48.45
            ---- Quadratic regression ----  Coefficient =  0.9991
              Response Ratio = -0.01273 + 0.15145 *A + 0.01001 *A^2

71) n-Nitrosodip 0.567 0.624 0.515 0.565 0.647 0.541 0.540 0.579 0.572   7.73
72) 1,2-Diphenyl 0.654 0.732 0.631 0.690 0.657 0.636 0.658 0.709 0.671   5.30
73) 2,4,6-Tribro 0.107 0.113 0.121 0.125 0.106 0.112 0.127 0.122 0.116   7.01
74) 4-Bromopheny 0.251 0.257 0.212 0.240 0.268 0.222 0.224 0.239 0.239   7.95
75) Hexachlorobe 0.293 0.287 0.231 0.258 0.323 0.257 0.243 0.268 0.270  10.97
76) Pentachlorop 0.027 0.044 0.155 0.160       0.072 0.163 0.126 0.107  54.34
            ---- Quadratic regression ----  Coefficient =  0.9969
              Response Ratio = -0.03632 + 0.17752 *A + -0.00252 *A^2

77) Phenanthrene 1.250 1.266 0.983 1.127 1.337 1.135 1.051 1.171 1.165  10.03
78) Anthracene   1.197 1.312 0.997 1.162 1.310 1.150 1.079 1.205 1.177   9.09
79) Carbazole    1.178 1.214 0.977 1.135 1.223 1.091 1.043 1.168 1.129   7.63
80) Di-n-butylph 1.250 1.337 1.109 1.321 1.248 1.214 1.219 1.335 1.254   6.17
81) Fluoranthene 1.410 1.494 1.161 1.351 1.434 1.322 1.249 1.382 1.350   7.88
82) Octadecane   0.388 0.414 0.361 0.405 0.425 0.367 0.380 0.410 0.394   5.93

83) I   Chrysene-d12          ----------------ISTD---------------------
84) Pyrene       1.427 1.543 1.322 1.393 1.519 1.337 1.356 1.405 1.413   5.74
85) Terphenyl-d1 0.940 1.014 0.900 0.941 1.001 0.885 0.919 0.939 0.942   4.77
86) Butylbenzylp 0.518 0.551 0.613 0.617 0.482 0.517 0.609 0.587 0.562   9.25
87) Benzo[a]anth 1.308 1.327 1.201 1.235 1.369 1.149 1.214 1.228 1.254   5.86
88) 3,3'-Dichlor 0.403 0.428 0.444 0.467 0.396 0.397 0.452 0.458 0.431   6.68
89) Chrysene     1.306 1.326 1.182 1.226 1.401 1.161 1.208 1.226 1.254   6.53
90) bis(2-Ethylh 0.669 0.751 0.792 0.821 0.670 0.695 0.807 0.787 0.749   8.33

91) I   Perylene-d12          ----------------ISTD---------------------
92) Di-n-octylph 1.140 1.292 1.086 1.316 1.195 1.231 1.199 1.343 1.225   7.24
```

Initial Calibration Summary

Job Number: JC23654 **Sample:** EM5307-ICC5307
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** M125266.D
Project: BMS-ICM, Humacao, PR

```
 93) Benzo[b]fluo 1.430 1.479 1.069 1.167 1.448 1.266 1.079 1.286 1.278  12.83
 94) Benzo[k]fluo 1.325 1.398 0.903 1.149 1.461 1.237 1.044 1.215 1.217  15.14
 95) Benzo[a]pyre 1.279 1.306 0.951 1.108 1.279 1.144 1.009 1.168 1.155  11.28
 96) Indeno[1,2,3 1.152 1.213 1.022 1.106 1.191 1.086 1.048 1.119 1.117   5.93
 97) Dibenz(a,h)a 1.047 1.108 0.899 1.015 1.059 0.990 0.948 1.055 1.015   6.66
 98) Dibenz[a,h]a 1.217 1.276 1.013 1.168 1.213 1.145 1.090 1.214 1.167   7.14
 99) 7,12-Dimethy 0.564 0.459 0.439 0.541 0.456 0.440 0.469 0.565 0.492  11.26
100) Benzo[g,h,i] 1.295 1.370 1.060 1.173 1.317 1.167 1.118 1.220 1.215   8.72
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MM5307.M          Mon Jun 20 10:15:19 2016   MSM
```

Initial Calibration Verification

Job Number: JC23654 **Sample:** EM5308-ICV5307
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** M125280.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EM5308\M125280.D          Vial: 11
Acq On    : 16 Jun 2016   9:54 pm                   Operator: juliusj
Sample    : icv5307-50                              Inst    : Instrument #1
Misc      : op94571,em5308                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MM5307.M (RTE Integrator)
Title        : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update  : Mon Jun 20 09:51:54 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00	4.88
3	t	Pyridine	1.314	1.358	-3.3	113	0.05	2.83
10	t	Aniline	1.801	2.136	-18.6	141	0.00	4.62
16	t	Benzyl alcohol	0.841	0.913	-8.6	125	0.00	4.99
24	I	Naphthalene-d8	1.000	1.000	0.0	128	0.00	6.05
39	t	4-Chloroaniline	0.459	0.442	3.7	123	0.00	6.13
44	t	2-Methylnaphthalene	0.661	0.575	13.0	117	0.00	6.90
47	I	Acenaphthene-d10	1.000	1.000	0.0	126	0.00	8.45
54	t	2-Nitroaniline	0.301	0.302	-0.3	118	0.00	7.74
58	t	3-Nitroaniline	0.337	0.347	-3.0	117	0.00	8.39
		----------	AvgRF	CCRF	% Dev	----------		
62	t	Dibenzofuran	1.697	1.641	3.3	130	0.00	8.80
68	t	4-Nitroaniline	0.333	0.345	-3.6	121	0.01	9.44
69	I	Phenanthrene-d10	1.000	1.000	0.0	139	0.00	11.10
		----------	AvgRF	CCRF	% Dev	----------		
79	t	Carbazole	1.129	1.012	10.4	124	0.00	11.58
83	I	Chrysene-d12	1.000	1.000	0.0	140	0.00	16.28
91	I	Perylene-d12	1.000	1.000	0.0	117	0.00	18.91

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Copy of M125266.D MM5307.M Mon Jun 20 09:57:28 2016 MSM

Initial Calibration Verification

Job Number: JC23654 **Sample:** EM5308-ICV5307
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** M125281.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\EM5308\M125281.D Vial: 12
Acq On : 16 Jun 2016 10:23 pm Operator: juliusj
Sample : icv5307-50 Inst : Instrument #1
Misc : op94571,em5308 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\MM5307.M (RTE Integrator)
Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update : Mon Jun 20 09:51:54 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	124	0.00	4.88
4	t	N-Nitrosodimethylamine	0.664	0.593	10.7	107	0.00	2.74
11	t	bis(2-Chloroethyl)ether	1.237	1.265	-2.3	131	0.00	4.66
14	t	1,3-Dichlorobenzene	1.589	1.517	4.5	122	0.00	4.84
15	t	1,4-Dichlorobenzene	1.522	1.442	5.3	119	0.00	4.89
17	t	1,2-Dichlorobenzene	1.458	1.455	0.2	131	0.00	5.02
20	t	2,2'-oxybis(1-Chloropropa	0.425	0.410	3.5	125	0.00	5.10
22	t	n-Nitroso-di-n-propylamin	0.875	0.847	3.2	123	0.00	5.20
23	t	Hexachloroethane	0.572	0.559	2.3	123	0.00	5.31
24	I	Naphthalene-d8	1.000	1.000	0.0	120	0.00	6.05
26	t	Nitrobenzene	0.370	0.338	8.6	112	0.00	5.36
28	t	Isophorone	0.667	0.640	4.0	114	0.00	5.57
32	t	bis(2-Chloroethoxy)methan	0.392	0.396	-1.0	124	0.00	5.78
36	t	1,2,4-Trichlorobenzene	0.380	0.361	5.0	123	0.00	5.99
38	t	Naphthalene	1.080	0.993	8.1	116	0.00	6.07
42	t	Hexachlorobutadiene	0.201	0.197	2.0	124	0.00	6.22
47	I	Acenaphthene-d10	1.000	1.000	0.0	122	0.00	8.45
48	t	Hexachlorocyclopentadiene	0.328	0.292	11.0	98	0.00	7.13
52	t	2-Chloronaphthalene	1.186	1.144	3.5	126	0.00	7.58
55	t	Dimethylphthalate	1.371	1.226	10.6	114	0.00	8.05
56	t	Acenaphthylene	1.935	1.697	12.3	109	0.00	8.22
57	t	2,6-Dinitrotoluene	0.292	0.273	6.5	105	0.00	8.13
59	t	Acenaphthene	1.206	1.069	11.4	114	0.00	8.51
		----------	AvgRF	CCRF	% Dev	----------		
63	t	2,4-Dinitrotoluene	0.383	0.361	5.7	111	0.00	8.79
65	t	Diethylphthalate	1.294	1.147	11.4	109	0.00	9.25
66	t	Fluorene	1.434	1.258	12.3	112	0.00	9.39
67	t	4-Chlorophenyl-phenylethe	0.691	0.625	9.6	118	0.00	9.42
69	I	Phenanthrene-d10	1.000	1.000	0.0	124	0.00	11.10
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.572	0.492	14.0	108	0.00	9.63
72	t	1,2-Diphenylhydrazine	0.671	0.581	13.4	105	0.00	9.70
74	t	4-Bromophenyl-phenylether	0.239	0.220	7.9	114	0.00	10.31
75	t	Hexachlorobenzene	0.270	0.233	13.7	112	0.00	10.40
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	1.165	0.987	15.3	109	0.00	11.14

Initial Calibration Verification

Job Number: JC23654 **Sample:** EM5308-ICV5307
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** M125281.D
Project: BMS-ICM, Humacao, PR

78	t	Anthracene	1.177	0.992	15.7	106	0.00	11.24
80	t	Di-n-butylphthalate	1.254	1.121	10.6	105	0.00	12.39
81	t	Fluoranthene	1.350	1.153	14.6	106	0.00	13.45
83	I	Chrysene-d12	1.000	1.000	0.0	105	0.00	16.29
84	t	Pyrene	1.413	1.398	1.1	106	0.00	13.87
86	t	Butylbenzylphthalate	0.562	0.582	-3.6	99	0.00	15.34
87	t	Benzo[a]anthracene	1.254	1.201	4.2	102	0.00	16.27
89	t	Chrysene	1.254	1.164	7.2	100	0.01	16.34
90	t	bis(2-Ethylhexyl)phthalat	0.749	0.768	-2.5	99	0.00	16.55
91	I	Perylene-d12	1.000	1.000	0.0	101	0.00	18.90
92	t	Di-n-octylphthalate	1.225	1.263	-3.1	97	0.00	17.78
93	t	Benzo[b]fluoranthene	1.278	1.126	11.9	98	0.01	18.26
94	t	Benzo[k]fluoranthene	1.217	1.149	5.6	101	0.01	18.31
95	t	Benzo[a]pyrene	1.155	1.075	6.9	98	0.01	18.81
96	t	Indeno[1,2,3-cd]pyrene	1.117	1.028	8.0	94	0.02	20.69
98	t	Dibenz[a,h]anthracene	1.167	1.075	7.9	93	0.02	20.74
100	t	Benzo[g,h,i]perylene	1.215	1.069	12.0	92	0.02	21.18

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Copy of M125266.D MM5307.M Mon Jun 20 09:57:31 2016 MSM

6.7.29

6

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: EM5308-ICV5307
Lab FileID: M125282.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EM5308\M125282.D          Vial: 13
Acq On    : 16 Jun 2016  10:51 pm                   Operator: juliusj
Sample    : icv5307-50                              Inst    : Instrument #1
Misc      : op94571,em5308                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MM5307.M (RTE Integrator)
Title        : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update  : Mon Jun 20 09:51:54 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	139	0.00	4.88
2	t	1,4-Dioxane	0.607	0.502	17.3	120	0.00	2.46
6	t	Indene	2.243	2.192	2.3	142	0.00	5.09
7	t	Cumene	3.053	2.668	12.6	124	0.00	4.27
13	t	Decane	1.232	1.063	13.7	126	0.00	4.75
18	t	Acetophenone	1.658	1.556	6.2	137	0.00	5.20
24	I	Naphthalene-d8	1.000	1.000	0.0	138	0.00	6.05
27	t	Quinoline	0.791	0.672	15.0	118	0.00	6.45
40	t	2,3-Dichloroaniline	0.412	0.337	18.2	117	0.00	7.29
41	t	Caprolactam	0.146	0.126	13.7	111	0.00	6.51
45	t	1-Methylnaphthalene	0.792	0.670	15.4	122	0.00	7.04
46	t	Dimethylnaphthalene	0.715	0.615	14.0	124	0.00	7.80
47	I	Acenaphthene-d10	1.000	1.000	0.0	134	0.00	8.45
53	t	Biphenyl	1.562	1.387	11.2	124	0.00	7.56
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	124	0.00	11.10
		----------	AvgRF	CCRF	% Dev	----------		
82	t	Octadecane	0.394	0.384	2.5	117	0.00	11.08
83	I	Chrysene-d12	1.000	1.000	0.0	136	0.00	16.28
91	I	Perylene-d12	1.000	1.000	0.0	109	0.00	18.90
99	t	7,12-Dimethylbenz(a)anthr	0.492	0.457	7.1	92	0.00	18.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Copy of M125266.D MM5307.M Mon Jun 20 09:57:33 2016 MSM

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: EM5308-ICV5307
Lab FileID: M125283.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EM5308\M125283.D          Vial: 14
Acq On    : 16 Jun 2016  11:20 pm                   Operator: juliusj
Sample    : icv5307-50                              Inst    : Instrument #1
Misc      : op94571,em5308                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MM5307.M (RTE Integrator)
Title        : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update  : Mon Jun 20 09:51:54 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	150	0.00	4.88
5	S	2-Fluorophenol	1.266	1.132	10.6	132	0.00	3.88
8	S	Phenol-d5	1.620	1.391	14.1	127	0.00	4.59
24	I	Naphthalene-d8	1.000	1.000	0.0	144	0.00	6.05
25	S	Nitrobenzene-d5	0.370	0.327	11.6	130	0.00	5.34
47	I	Acenaphthene-d10	1.000	1.000	0.0	142	0.00	8.45
51	S	2-Fluorobiphenyl	1.393	1.248	10.4	134	0.00	7.41
		----------	AvgRF	CCRF	% Dev	----------		
69	I	Phenanthrene-d10	1.000	1.000	0.0	145	0.00	11.10
		----------	AvgRF	CCRF	% Dev	----------		
73	S	2,4,6-Tribromophenol	0.116	0.095	18.1	109	0.00	9.81
		----------	AvgRF	CCRF	% Dev	----------		
83	I	Chrysene-d12	1.000	1.000	0.0	142	0.00	16.28
85	S	Terphenyl-d14	0.942	0.762	19.1	115	0.00	14.28
91	I	Perylene-d12	1.000	1.000	0.0	119	0.00	18.90

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Copy of M125266.D MM5307.M Mon Jun 20 09:57:35 2016 MSM

Initial Calibration Verification

Job Number: JC23654
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMS-ICM, Humacao, PR
Sample: EM5308-ICV5307
Lab FileID: M125284.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EM5308\M125284.D          Vial: 15
Acq On    : 16 Jun 2016  11:49 pm                   Operator: juliusj
Sample    : icv5307-50                              Inst    : Instrument #1
Misc      : op94571,em5308                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MM5307.M (RTE Integrator)
Title        : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update  : Mon Jun 20 09:51:54 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
83	I	Chrysene-d12	1.000	1.000	0.0	129	0.00	16.28
88	t	3,3'-Dichlorobenzidine	0.431	0.385	10.7	106	0.00	16.29

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Copy of M125266.D MM5307.M Mon Jun 20 09:57:37 2016 MSM

Initial Calibration Verification

Job Number: JC23654 **Sample:** EM5310-ICV5307
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** M125314.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EM5310\M125314.D          Vial: 2
Acq On    : 19 Jun 2016   8:09 am                   Operator: kristis
Sample    : icv5307-50                              Inst    : Instrument #1
Misc      : op94571,em5310,1000,,,1,1               Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MM5307.M (RTE Integrator)
Title        : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update  : Mon Jun 20 09:51:54 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	139	0.00	4.87
9	t	Phenol	1.770	1.578	10.8	121	0.00	4.60
12	t	2-Chlorophenol	1.404	1.317	6.2	134	0.00	4.71
19	t	2-Methylphenol	1.203	1.150	4.4	131	0.00	5.07
21	t	3&4-Methylphenol	1.277	1.206	5.6	131	0.00	5.20
24	I	Naphthalene-d8	1.000	1.000	0.0	129	-0.01	6.04
29	t	2-Nitrophenol	0.203	0.219	-7.9	134	0.00	5.65
30	t	2,4-Dimethylphenol	0.315	0.328	-4.1	130	0.00	5.69
33	t	2,4-Dichlorophenol	0.327	0.326	0.3	128	0.00	5.90
34	t	2,6-Dichlorophenol	0.311	0.307	1.3	129	0.00	6.13
43	t	4-Chloro-3-methylphenol	0.309	0.290	6.1	120	0.00	6.70
47	I	Acenaphthene-d10	1.000	1.000	0.0	127	0.00	8.45
49	t	2,4,6-Trichlorophenol	0.376	0.393	-4.5	132	-0.01	7.29
50	t	2,4,5-Trichlorophenol	0.417	0.383	8.2	114	0.00	7.35
		----------	True	Calc.	% Drift		----------	
60	t	2,4-Dinitrophenol	50.000	41.344	17.3	88	-0.01	8.56
		----------	AvgRF	CCRF	% Dev		----------	
61	t	4-Nitrophenol	0.146	0.137	6.2	106	0.01	8.72
64	t	2,3,4,6-Tetrachlorophenol	0.310	0.320	-3.2	115	0.00	9.02
69	I	Phenanthrene-d10	1.000	1.000	0.0	123	-0.01	11.09
		----------	True	Calc.	% Drift		----------	
70	t	4,6-Dinitro-2-methylpheno	50.000	45.682	8.6	110	-0.02	9.49
		----------	True	Calc.	% Drift		----------	
76	t	Pentachlorophenol	50.000	42.907	14.2	92	-0.01	10.77
		----------	AvgRF	CCRF	% Dev		----------	
83	I	Chrysene-d12	1.000	1.000	0.0	118	-0.02	16.26
91	I	Perylene-d12	1.000	1.000	0.0	96	-0.01	18.89

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Copy of M125266.D MM5307.M Mon Jun 20 09:57:05 2016 MSM

Continuing Calibration Summary

Job Number: JC23654 **Sample:** EM5342-CC5307
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** M126011.D
Project: BMS-ICM, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\EM5342\M126011.D          Vial: 2
Acq On    : 11 Jul 2016  10:28 am                   Operator: ashleyd
Sample    : cc5307-50                               Inst    : Instrument #1
Misc      : op95217,em5342                          Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\MSDCHEM\1\METHODS\MM5307.M (RTE Integrator)
Title        : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
Last Update  : Mon Jul 11 10:56:01 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	66	0.00	4.75
2	t	1,4-Dioxane	0.607	0.489	19.4	55	-0.04	2.29
3	t	Pyridine	1.314	1.300	1.1	60	-0.07	2.64
4	t	N-Nitrosodimethylamine	0.664	0.805	-21.2#	77	-0.06	2.60
5	S	2-Fluorophenol	1.266	1.158	8.5	59	0.02	3.79
6	t	Indene	2.243	2.467	-10.0	76	0.00	4.95
7	t	Cumene	3.053	3.336	-9.3	73	-0.02	4.14
8	S	Phenol-d5	1.620	1.539	5.0	61	0.04	4.51
9	t	Phenol	1.770	1.907	-7.7	69	0.01	4.52
10	t	Aniline	1.801	2.144	-19.0	77	0.00	4.50
11	t	bis(2-Chloroethyl)ether	1.237	1.144	7.5	63	0.00	4.54
12	t	2-Chlorophenol	1.404	1.400	0.3	68	0.02	4.60
13	t	Decane	1.232	1.304	-5.8	73	0.00	4.61
14	t	1,3-Dichlorobenzene	1.589	1.498	5.7	64	0.00	4.70
15	t	1,4-Dichlorobenzene	1.522	1.475	3.1	65	0.00	4.76
16	t	Benzyl alcohol	0.841	0.924	-9.9	70	0.02	4.87
17	t	1,2-Dichlorobenzene	1.458	1.388	4.8	67	0.00	4.88
18	t	Acetophenone	1.658	1.967	-18.6	82	0.01	5.07
19	t	2-Methylphenol	1.203	1.224	-1.7	66	0.00	4.97
20	t	2,2'-oxybis(1-Chloropropa	0.425	0.427	-0.5	70	0.00	4.95
21	t	3&4-Methylphenol	1.277	1.354	-6.0	69	0.00	5.10
22	t	n-Nitroso-di-n-propylamin	0.875	1.088	-24.3#	85	0.00	5.07
23	t	Hexachloroethane	0.572	0.586	-2.4	69	-0.01	5.16
24	I	Naphthalene-d8	1.000	1.000	0.0	72	0.00	5.89
25	S	Nitrobenzene-d5	0.370	0.408	-10.3	81	0.00	5.20
26	t	Nitrobenzene	0.370	0.413	-11.6	82	0.00	5.22
27	t	Quinoline	0.791	0.751	5.1	68	0.01	6.29
28	t	Isophorone	0.667	0.707	-6.0	75	0.00	5.43
29	t	2-Nitrophenol	0.203	0.211	-3.9	72	0.00	5.51
30	t	2,4-Dimethylphenol	0.315	0.360	-14.3	79	0.00	5.57
32	t	bis(2-Chloroethoxy)methan	0.392	0.365	6.9	68	0.00	5.63
33	t	2,4-Dichlorophenol	0.327	0.310	5.2	68	0.03	5.77
34	t	2,6-Dichlorophenol	0.311	0.300	3.5	70	0.02	6.00
35	t	1,3,5-Trichlorobenzene	0.386	0.361	6.5	74	0.00	5.52
36	t	1,2,4-Trichlorobenzene	0.380	0.328	13.7	67	0.02	5.83
37	t	1,2,3-Trichlorobenzene	0.362	0.339	6.4	72	0.01	6.08
38	t	Naphthalene	1.080	0.956	11.5	66	0.00	5.91
39	t	4-Chloroaniline	0.459	0.465	-1.3	72	0.03	5.98
40	t	2,3-Dichloroaniline	0.412	0.405	1.7	73	0.03	7.12
41	t	Caprolactam	0.146	0.170	-16.4	77	0.00	6.41
42	t	Hexachlorobutadiene	0.201	0.200	0.5	75	-0.01	6.04

Continuing Calibration Summary

Job Number: JC23654 **Sample:** EM5342-CC5307
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** M126011.D
Project: BMS-ICM, Humacao, PR

43	t	4-Chloro-3-methylphenol	0.309	0.348	-12.6	80	0.07	6.59
44	t	2-Methylnaphthalene	0.661	0.634	4.1	72	0.01	6.73
45	t	1-Methylnaphthalene	0.792	0.728	8.1	69	0.00	6.86
46	t	Dimethylnaphthalene	0.715	0.688	3.8	72	0.02	7.61
47	I	Acenaphthene-d10	1.000	1.000	0.0	75	0.00	8.26
48	t	Hexachlorocyclopentadiene	0.328	0.219	33.2#	45#	-0.02	6.94
49	t	2,4,6-Trichlorophenol	0.376	0.373	0.8	74	0.01	7.14
50	t	2,4,5-Trichlorophenol	0.417	0.423	-1.4	75	0.03	7.21
51	S	2-Fluorobiphenyl	1.393	1.175	15.6	67	-0.01	7.23
52	t	2-Chloronaphthalene	1.186	1.028	13.3	70	0.00	7.41
53	t	Biphenyl	1.562	1.429	8.5	72	0.00	7.38
54	t	2-Nitroaniline	0.301	0.434	-44.2#	102	0.02	7.58
55	t	Dimethylphthalate	1.371	1.293	5.7	74	0.00	7.86
56	t	Acenaphthylene	1.935	1.723	11.0	68	0.00	8.03
57	t	2,6-Dinitrotoluene	0.292	0.306	-4.8	72	0.02	7.96
58	t	3-Nitroaniline	0.337	0.346	-2.7	70	0.04	8.23
59	t	Acenaphthene	1.206	1.040	13.8	68	0.00	8.31
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	100.000	100.761	-0.8	74	0.05	8.43
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.146	0.167	-14.4	76	0.06	8.65
62	t	Dibenzofuran	1.697	1.665	1.9	79	0.00	8.60
63	t	2,4-Dinitrotoluene	0.383	0.409	-6.8	77	0.05	8.64
64	t	2,3,4,6-Tetrachlorophenol	0.310	0.334	-7.7	71	0.04	8.86
65	t	Diethylphthalate	1.294	1.309	-1.2	76	0.02	9.06
66	t	Fluorene	1.434	1.298	9.5	71	0.02	9.19
67	t	4-Chlorophenyl-phenylethe	0.691	0.630	8.8	73	0.02	9.22
68	t	4-Nitroaniline	0.333	0.349	-4.8	73	0.08	9.29
69	I	Phenanthrene-d10	1.000	1.000	0.0	81	0.00	10.90
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	50.000	50.658	-1.3	82	0.03	9.37
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.572	0.494	13.6	71	0.00	9.45
72	t	1,2-Diphenylhydrazine	0.671	0.719	-7.2	85	0.00	9.50
73	S	2,4,6-Tribromophenol	0.116	0.108	6.9	70	0.00	9.64
74	t	4-Bromophenyl-phenylether	0.239	0.210	12.1	71	-0.01	10.10
75	t	Hexachlorobenzene	0.270	0.234	13.3	73	0.00	10.20
		----------	True	Calc.	% Drift	----------		
76	t	Pentachlorophenol	100.000	81.351	18.6	64	0.03	10.61
		----------	AvgRF	CCRF	% Dev	----------		
77	t	Phenanthrene	1.165	0.989	15.1	71	0.01	10.95
78	t	Anthracene	1.177	1.021	13.3	71	0.01	11.04
79	t	Carbazole	1.129	1.014	10.2	73	-0.01	11.40
80	t	Di-n-butylphthalate	1.254	1.232	1.8	76	0.01	12.17
81	t	Fluoranthene	1.350	1.207	10.6	72	0.04	13.25
82	t	Octadecane	0.394	0.428	-8.6	86	-0.02	10.86
83	I	Chrysene-d12	1.000	1.000	0.0	83	0.00	16.09
84	t	Pyrene	1.413	1.212	14.2	72	-0.03	13.68
85	S	Terphenyl-d14	0.942	0.824	12.5	72	0.00	14.08
86	t	Butylbenzylphthalate	0.562	0.562	0.0	75	-0.04	15.12
87	t	Benzo[a]anthracene	1.254	1.091	13.0	73	0.00	16.08

Continuing Calibration Summary

Job Number: JC23654 **Sample:** EM5342-CC5307
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** M126011.D
Project: BMS-ICM, Humacao, PR

88	t	3,3'-Dichlorobenzidine	0.431	0.425	1.4	75	0.00	16.09
89	t	Chrysene	1.254	1.083	13.6	73	0.01	16.15
90	t	bis(2-Ethylhexyl)phthalat	0.749	0.758	-1.2	76	0.02	16.33
91	I	Perylene-d12	1.000	1.000	0.0	66	0.00	18.73
92	t	Di-n-octylphthalate	1.225	1.448	-18.2	73	-0.09	17.56
93	t	Benzo[b]fluoranthene	1.278	1.185	7.3	67	0.00	18.09
94	t	Benzo[k]fluoranthene	1.217	1.104	9.3	64	0.00	18.14
95	t	Benzo[a]pyrene	1.155	1.056	8.6	63	0.00	18.63
96	t	Indeno[1,2,3-cd]pyrene	1.117	0.899	19.5	54	-0.01	20.49
97	t	Dibenz(a,h)acridine	1.015	0.854	15.9	56	0.00	20.11
98	t	Dibenz[a,h]anthracene	1.167	0.933	20.1#	53	0.00	20.53
99	t	7,12-Dimethylbenz(a)anthr	0.492	0.585	-18.9	71	-0.01	18.08
100	t	Benzo[g,h,i]perylene	1.215	0.915	24.7#	52	-0.02	20.97

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Copy of M125266.D MM5307.M Mon Jul 11 11:12:35 2016 MSM

6.7.34

6

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62896.D
Acq On : 11 Jul 2016 11:33 am
Operator : ashleyd
Sample : jc23654-1
Misc : op95394a,e3m2971,890
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 11 14:35:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

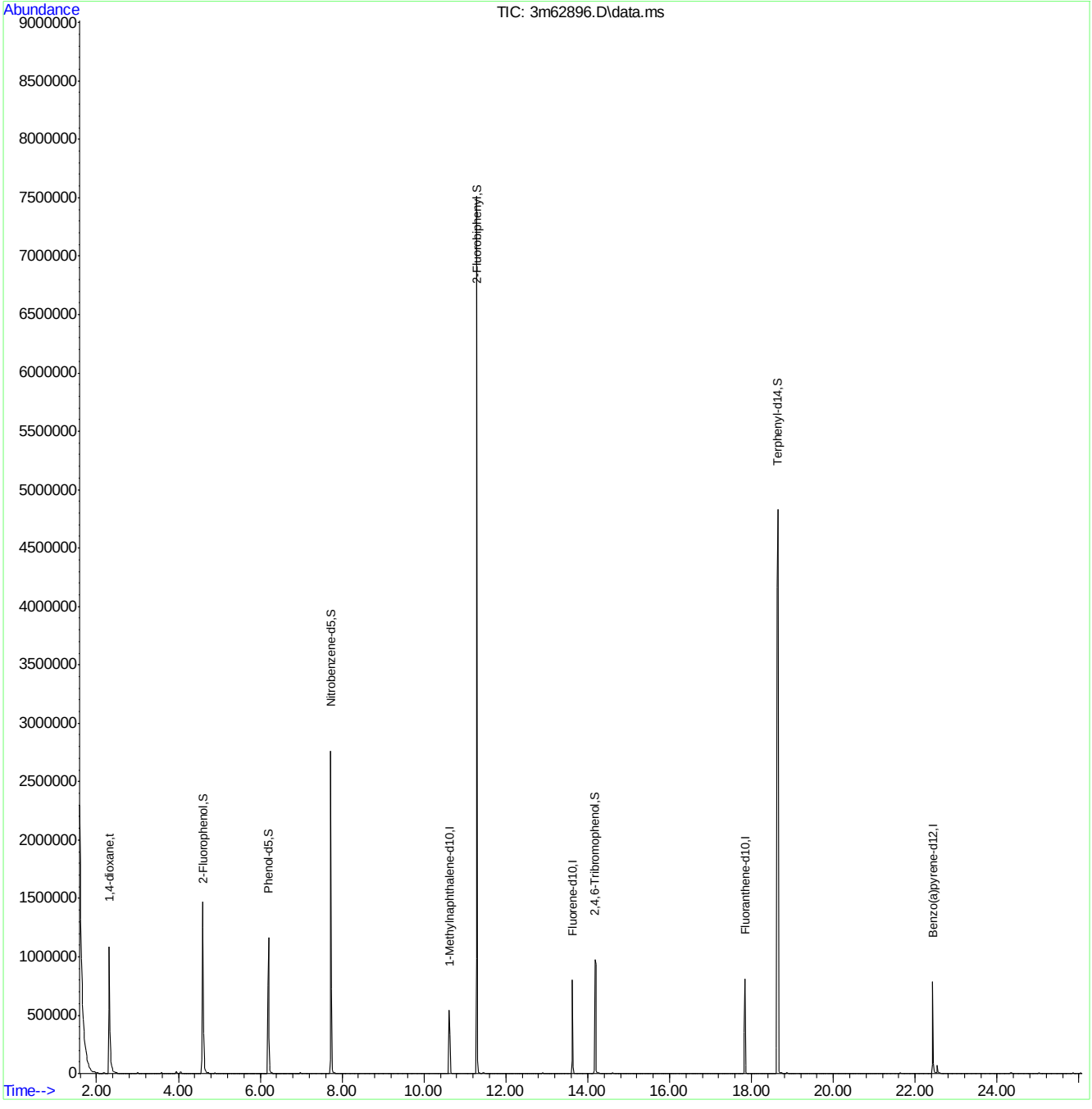
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.620	150	403483	4.00 ppm	0.00
14) Fluorene-d10	13.631	176	578601	4.00 ppm	0.00
21) Fluoranthene-d10	17.842	212	910590	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	779155	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.600	112	1455373	23.03 ppm	-0.05
Spiked Amount 50.000			Recovery = 46.06%		
4) Phenol-d5	6.200	99	1649971	16.49 ppm	0.00
Spiked Amount 50.000			Recovery = 32.98%		
7) Nitrobenzene-d5	7.726	82	2827502	34.55 ppm	-0.05
Spiked Amount 50.000			Recovery = 69.10%		
15) 2-Fluorobiphenyl	11.296	172	6452793	36.43 ppm	-0.02
Spiked Amount 50.000			Recovery = 72.86%		
20) 2,4,6-Tribromophenol	14.177	330	903828	48.34 ppm	0.03
Spiked Amount 50.000			Recovery = 96.68%		
28) Terphenyl-d14	18.646	244	5668739	41.34 ppm	0.03
Spiked Amount 50.000			Recovery = 82.68%		
Target Compounds					Qvalue
2) 1,4-dioxane	2.313	88	1074388	43.04 ppm	# 50

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

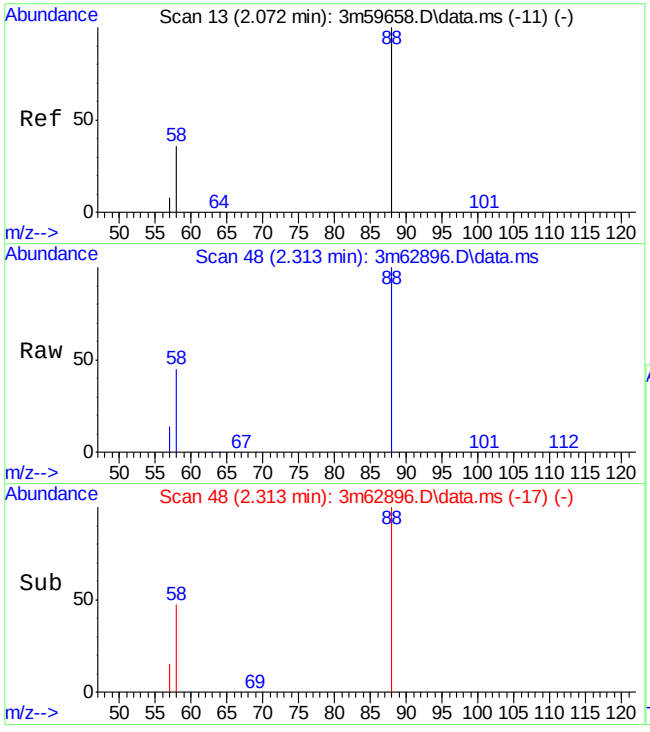
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62896.D
Acq On : 11 Jul 2016 11:33 am
Operator : ashleyd
Sample : jc23654-1
Misc : op95394a,e3m2971,890
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 11 14:35:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration



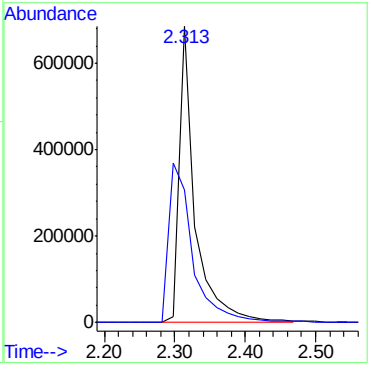
M3M2942SIM.M Mon Jul 11 14:35:37 2016 RPT1 Page: 2



#2
1,4-dioxane
Concen: 43.04 ppm
RT: 2.313 min Scan# 48
Delta R.T. -0.023 min
Lab File: 3m62896.D
Acq: 11 Jul 2016 11:33 am

Tgt Ion: 88 Resp: 1074388

Ion	Ratio	Lower	Upper
88	100		
58	44.6	72.6	112.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126025.D
Acq On : 11 Jul 2016 5:13 pm
Operator : ashleyd
Sample : jc23654-1
Misc : op95394a,em5342,890
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 12 13:29:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.741	152	437570	40.00	ppm	0.00
24) Naphthalene-d8	5.889	136	1738191	40.00	ppm	0.00
47) Acenaphthene-d10	8.255	164	1133331	40.00	ppm	0.00
69) Phenanthrene-d10	10.894	188	2122343	40.00	ppm	0.00
83) Chrysene-d12	16.080	240	2173560	40.00	ppm	-0.02
91) Perylene-d12	18.718	264	1905755	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.741	152	437570	40.00	ppm	0.00
103) Acenaphthene-d10a	8.255	164	1133331	40.00	ppm	0.00
106) Chrysene-d12a	16.080	240	2173560	40.00	ppm	-0.02
108) Naphthalene-d8a	5.889	136	1738191	40.00	ppm	0.00
110) Chrysene-d12b	16.080	240	2173560	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.790	112	303394	21.90	ppm	0.01
Spiked Amount 50.000			Recovery = 43.80%			
8) Phenol-d5	4.506	99	304024	17.16	ppm	0.04
Spiked Amount 50.000			Recovery = 34.32%			
25) Nitrobenzene-d5	5.200	82	634643	39.51	ppm	0.00
Spiked Amount 50.000			Recovery = 79.02%			
51) 2-Fluorobiphenyl	7.230	172	1239129	31.39	ppm	-0.02
Spiked Amount 50.000			Recovery = 62.78%			
73) 2,4,6-Tribromophenol	9.628	330	244873	39.62	ppm	-0.01
Spiked Amount 50.000			Recovery = 79.24%			
85) Terphenyl-d14	14.066	244	1639307	32.01	ppm	-0.02
Spiked Amount 50.000			Recovery = 64.02%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.294	88	240285	36.19	ppm	99

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

7.1.2

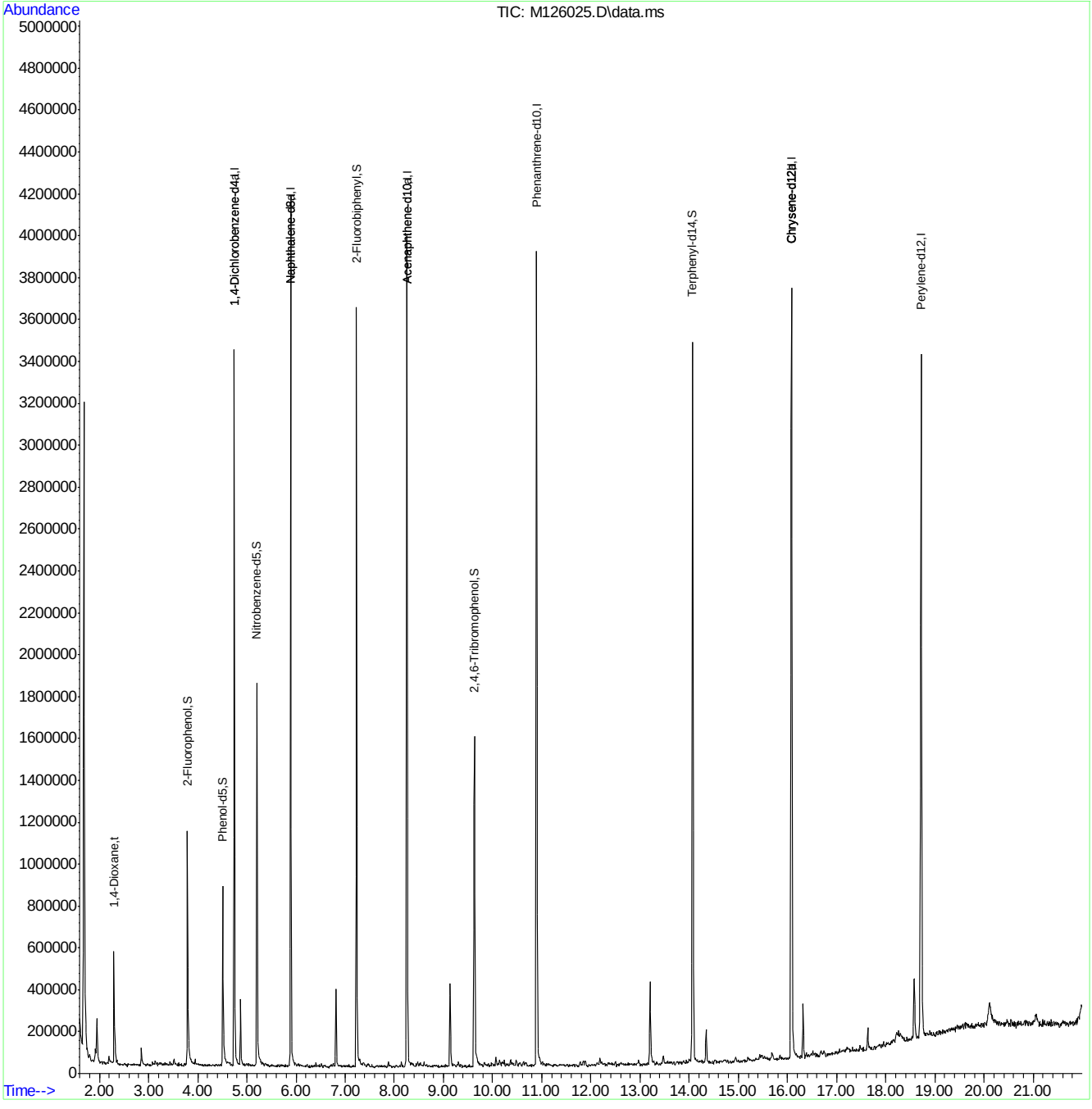
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

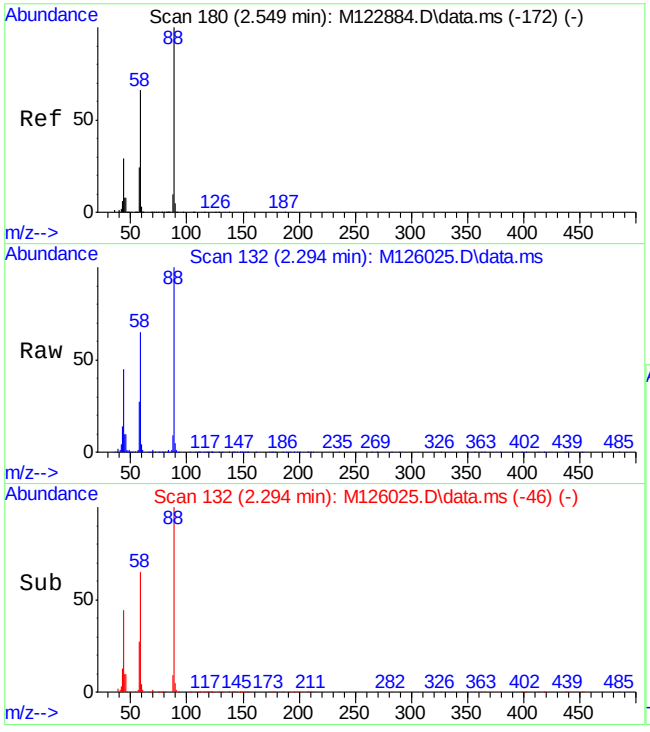
Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126025.D
Acq On : 11 Jul 2016 5:13 pm
Operator : ashleyd
Sample : jc23654-1
Misc : op95394a,em5342,890
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 12 13:29:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration



MM5307.M Tue Jul 12 13:30:09 2016 MSM

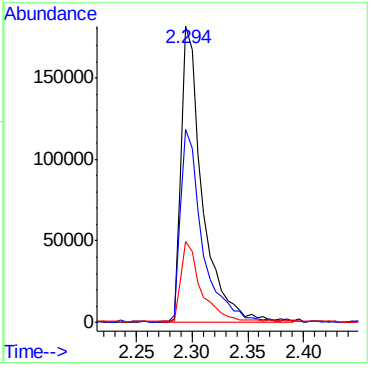
Page: 2



#2
1,4-Dioxane
Concen: 36.19 ppm
RT: 2.294 min Scan# 132
Delta R.T. -0.041 min
Lab File: M126025.D
Acq: 11 Jul 2016 5:13 pm

Tgt Ion: 88 Resp: 240285

Ion	Ratio	Lower	Upper
88	100		
58	64.9	36.4	96.4
57	26.5	0.0	56.4



7.1.2

7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62897.D
Acq On : 11 Jul 2016 12:06 pm
Operator : ashleyd
Sample : jc23654-2
Misc : op95394a,e3m2971,910
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 11 14:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

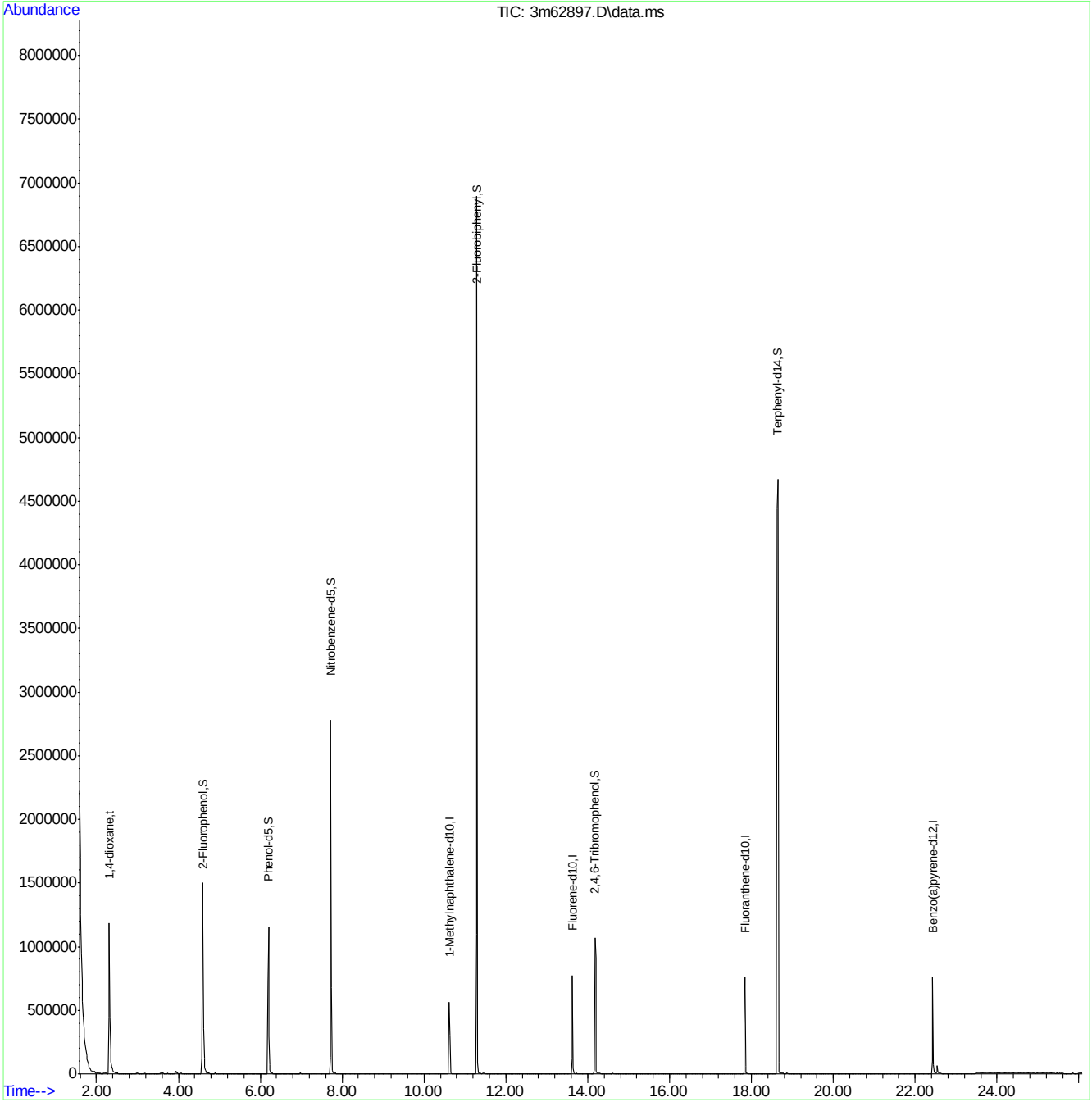
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.620	150	403289	4.00	ppm	0.00
14) Fluorene-d10	13.631	176	561163	4.00	ppm	0.00
21) Fluoranthene-d10	17.842	212	888884	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	759596	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.600	112	1489920	23.59	ppm	-0.05
Spiked Amount 50.000			Recovery = 47.18%			
4) Phenol-d5	6.200	99	1625781	16.26	ppm	0.00
Spiked Amount 50.000			Recovery = 32.52%			
7) Nitrobenzene-d5	7.726	82	2810275	34.35	ppm	-0.05
Spiked Amount 50.000			Recovery = 68.70%			
15) 2-Fluorobiphenyl	11.296	172	6086984	35.43	ppm	-0.02
Spiked Amount 50.000			Recovery = 70.86%			
20) 2,4,6-Tribromophenol	14.177	330	937912	51.72	ppm	0.03
Spiked Amount 50.000			Recovery = 103.44%			
28) Terphenyl-d14	18.646	244	5760751	43.04	ppm	0.03
Spiked Amount 50.000			Recovery = 86.08%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.313	88	1146060	45.93	ppm #	58

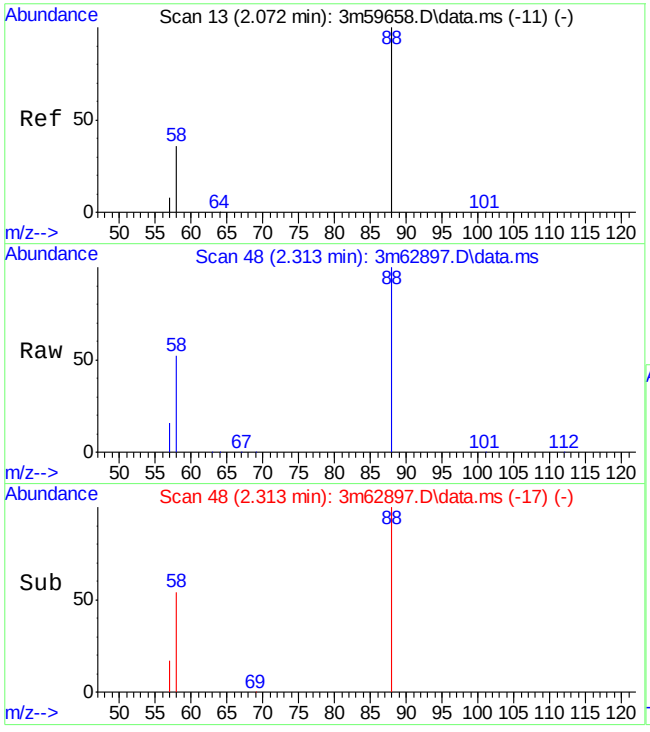
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62897.D
Acq On : 11 Jul 2016 12:06 pm
Operator : ashleyd
Sample : jc23654-2
Misc : op95394a,e3m2971,910
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 11 14:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

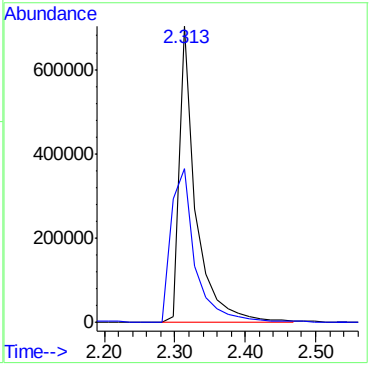




#2
1,4-dioxane
Concen: 45.93 ppm
RT: 2.313 min Scan# 48
Delta R.T. -0.023 min
Lab File: 3m62897.D
Acq: 11 Jul 2016 12:06 pm

Tgt Ion: 88 Resp: 1146060

Ion	Ratio	Lower	Upper
88	100		
58	52.0	72.6	112.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126026.D
Acq On : 11 Jul 2016 5:42 pm
Operator : ashleyd
Sample : jc23654-2
Misc : op95394a,em5342,910
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 12 13:31:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration

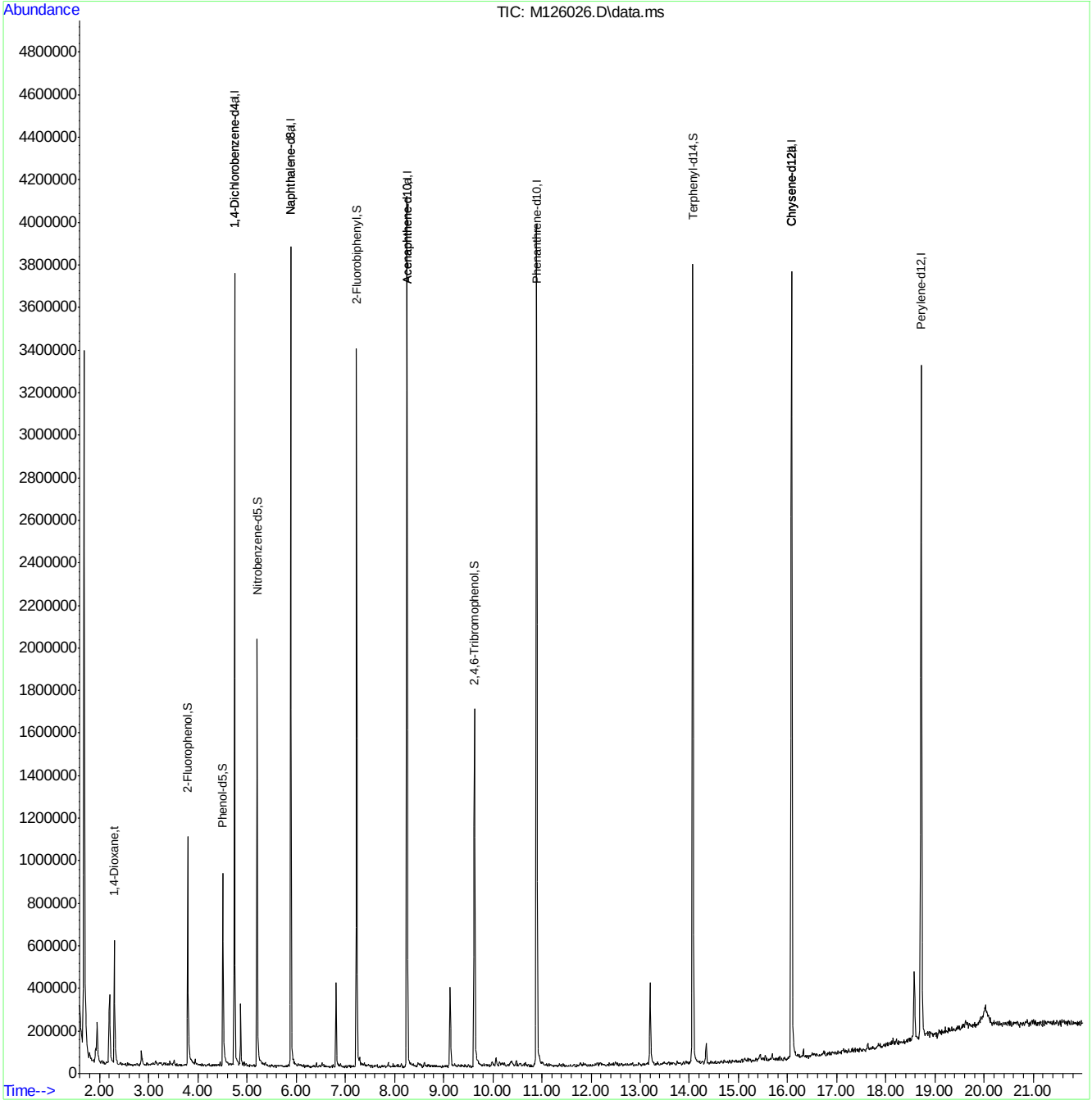
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.744	152	460939	40.00 ppm	0.00
24) Naphthalene-d8	5.893	136	1765118	40.00 ppm	0.00
47) Acenaphthene-d10	8.253	164	1143130	40.00 ppm	0.00
69) Phenanthrene-d10	10.892	188	2148078	40.00 ppm	0.00
83) Chrysene-d12	16.083	240	2184965	40.00 ppm	-0.01
91) Perylene-d12	18.722	264	1897084	40.00 ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.744	152	455652	40.00 ppm	0.00
103) Acenaphthene-d10a	8.253	164	1143130	40.00 ppm	0.00
106) Chrysene-d12a	16.083	240	2184965	40.00 ppm	-0.01
108) Naphthalene-d8a	5.893	136	1765118	40.00 ppm	0.00
110) Chrysene-d12b	16.083	240	2184965	40.00 ppm	-0.01
System Monitoring Compounds					
5) 2-Fluorophenol	3.793	112	314997	21.59 ppm	0.01
Spiked Amount 50.000			Recovery	= 43.18%	
8) Phenol-d5	4.509	99	311004	16.66 ppm	0.04
Spiked Amount 50.000			Recovery	= 33.32%	
25) Nitrobenzene-d5	5.204	82	644440	39.51 ppm	0.00
Spiked Amount 50.000			Recovery	= 79.02%	
51) 2-Fluorobiphenyl	7.228	172	1240383	31.15 ppm	-0.02
Spiked Amount 50.000			Recovery	= 62.30%	
73) 2,4,6-Tribromophenol	9.631	330	257313	41.14 ppm	0.00
Spiked Amount 50.000			Recovery	= 82.28%	
85) Terphenyl-d14	14.070	244	1713947	33.29 ppm	-0.02
Spiked Amount 50.000			Recovery	= 66.58%	
Target Compounds					Qvalue
2) 1,4-Dioxane	2.298	88	254462	36.38 ppm	98

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

Quantitation Report (QT Reviewed)

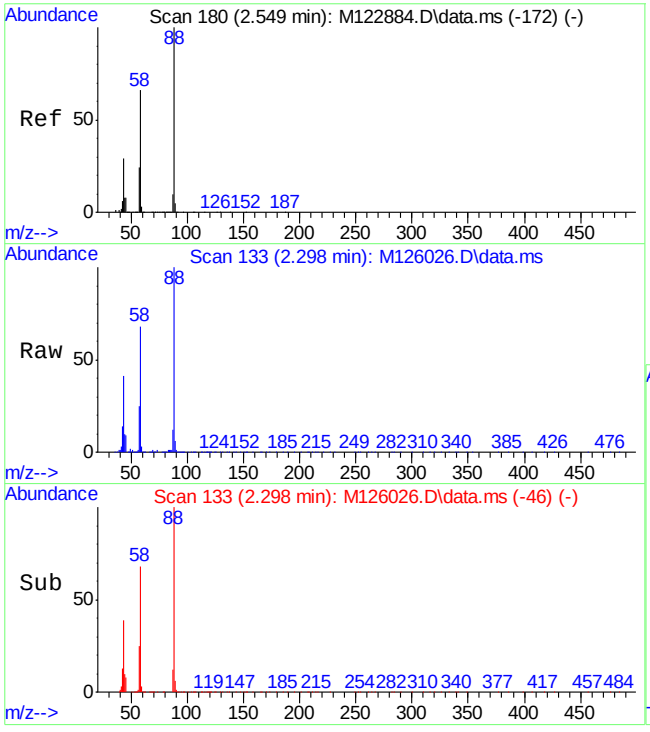
Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126026.D
Acq On : 11 Jul 2016 5:42 pm
Operator : ashleyd
Sample : jc23654-2
Misc : op95394a,em5342,910
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 12 13:31:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration



MM5307.M Tue Jul 12 13:31:30 2016 MSM

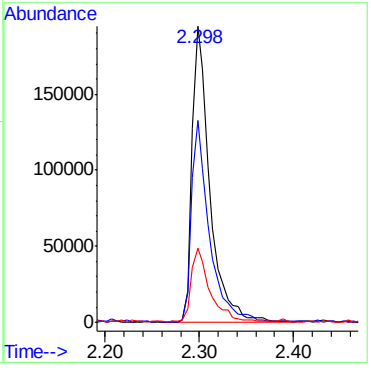
SGS ACCUTEST JC23654



#2
1,4-Dioxane
Concen: 36.38 ppm
RT: 2.298 min Scan# 133
Delta R.T. -0.037 min
Lab File: M126026.D
Acq: 11 Jul 2016 5:42 pm

Tgt Ion: 88 Resp: 254462

Ion	Ratio	Lower	Upper
88	100		
58	67.8	36.4	96.4
57	24.8	0.0	56.4



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62898.D
Acq On : 11 Jul 2016 12:38 pm
Operator : ashleyd
Sample : jc23654-3
Misc : op95394a,e3m2971,900
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 11 14:37:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.619	150	412735	4.00 ppm	0.00
14) Fluorene-d10	13.630	176	592101	4.00 ppm	0.00
21) Fluoranthene-d10	17.842	212	935191	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	819696	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.600	112	1471228	22.76 ppm	-0.05
Spiked Amount 50.000			Recovery = 45.52%		
4) Phenol-d5	6.200	99	1629557	15.92 ppm	0.00
Spiked Amount 50.000			Recovery = 31.84%		
7) Nitrobenzene-d5	7.726	82	2991840	35.74 ppm	-0.05
Spiked Amount 50.000			Recovery = 71.48%		
15) 2-Fluorobiphenyl	11.296	172	6410964	35.37 ppm	-0.02
Spiked Amount 50.000			Recovery = 70.74%		
20) 2,4,6-Tribromophenol	14.177	330	880408	46.01 ppm	0.03
Spiked Amount 50.000			Recovery = 92.02%		
28) Terphenyl-d14	18.646	244	5369453	38.13 ppm	0.03
Spiked Amount 50.000			Recovery = 76.26%		
Target Compounds					Qvalue
2) 1,4-dioxane	2.313	88	798320	31.26 ppm #	43

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

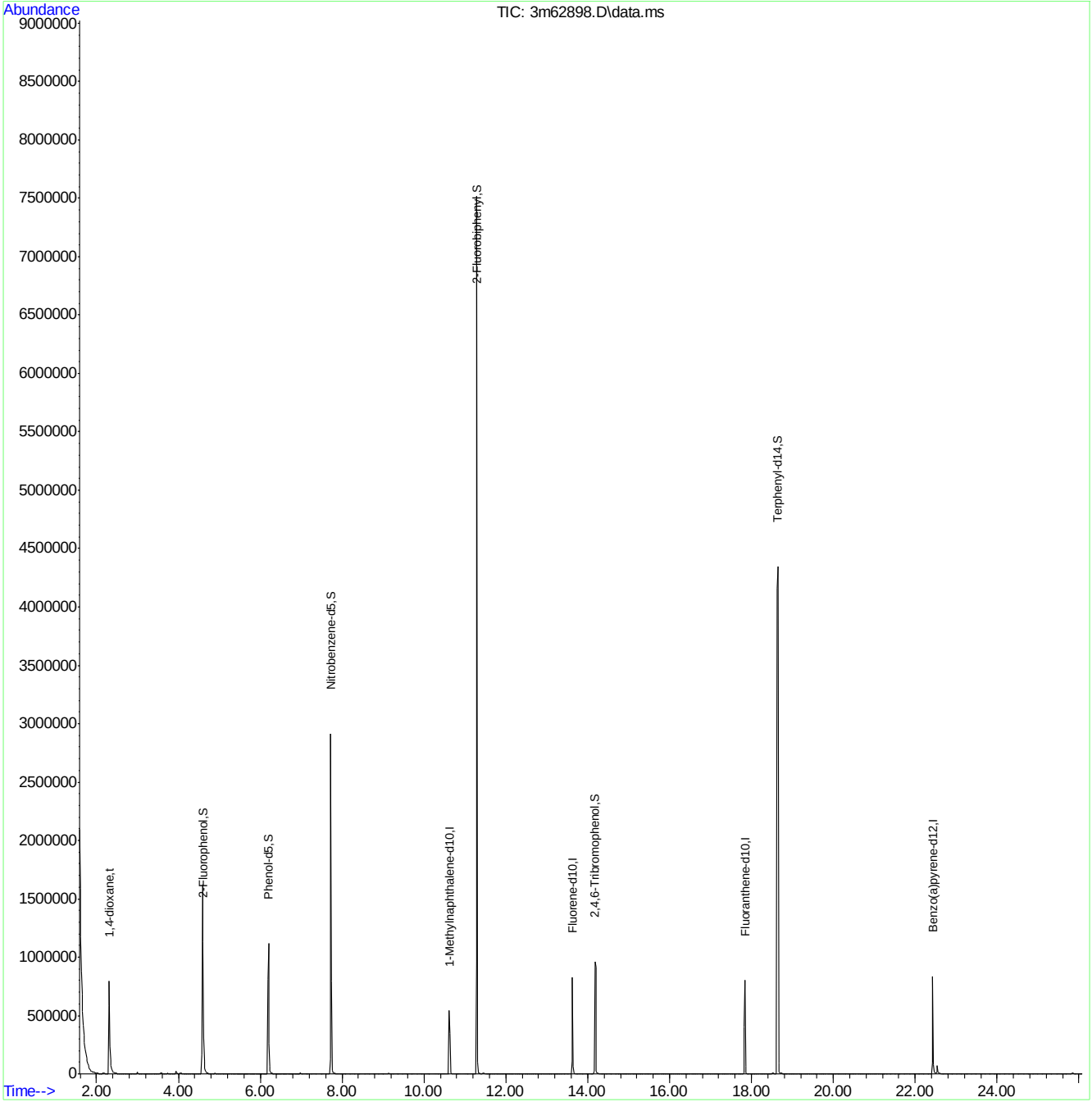
7.1.5

7

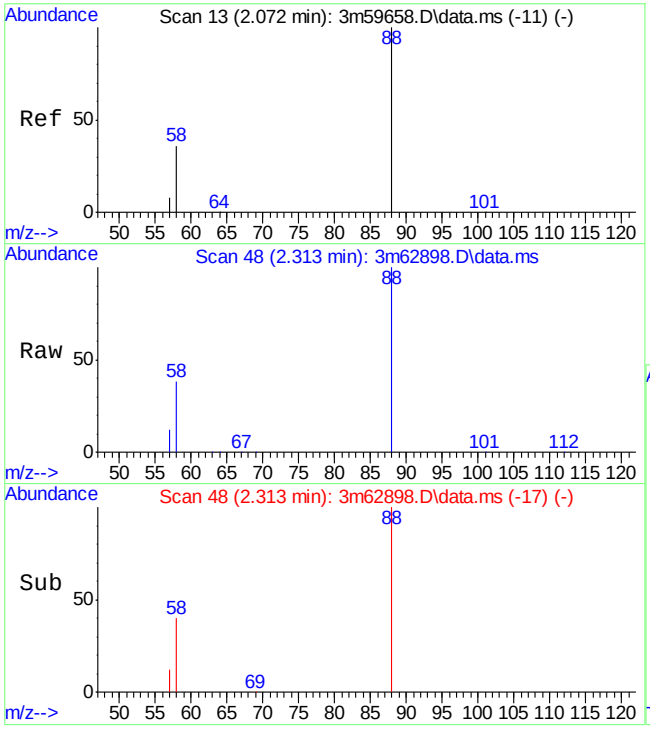
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62898.D
Acq On : 11 Jul 2016 12:38 pm
Operator : ashleyd
Sample : jc23654-3
Misc : op95394a,e3m2971,900
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 11 14:37:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration



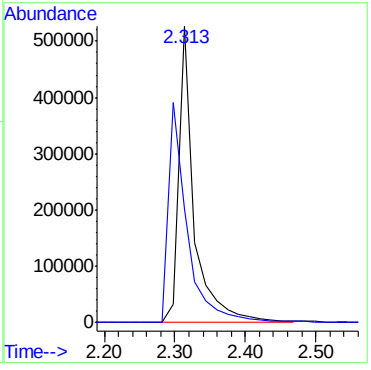
SGS ACCUTEST JC23654



#2
1,4-dioxane
Concen: 31.26 ppm
RT: 2.313 min Scan# 48
Delta R.T. -0.023 min
Lab File: 3m62898.D
Acq: 11 Jul 2016 12:38 pm

Tgt Ion: 88 Resp: 798320

Ion	Ratio	Lower	Upper
88	100		
58	38.0	72.6	112.6#



7.1.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126027.D
Acq On : 11 Jul 2016 6:11 pm
Operator : ashleyd
Sample : jc23654-3
Misc : op95394a,em5342,900
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 12 13:32:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration

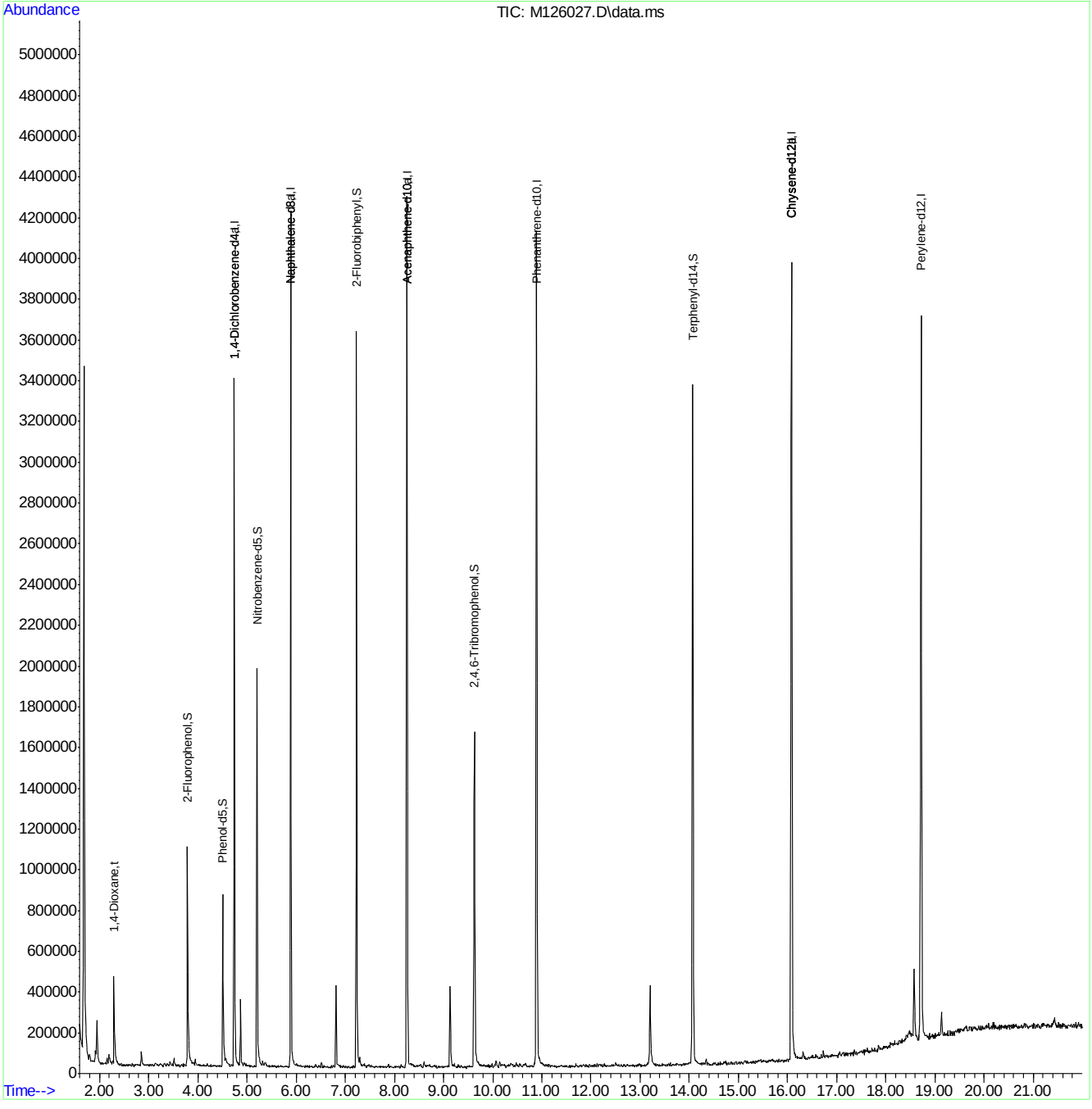
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.746	152	464862	40.00	ppm	0.00
24) Naphthalene-d8	5.889	136	1816504	40.00	ppm	0.00
47) Acenaphthene-d10	8.255	164	1201909	40.00	ppm	0.00
69) Phenanthrene-d10	10.893	188	2252618	40.00	ppm	0.00
83) Chrysene-d12	16.085	240	2301445	40.00	ppm	-0.01
91) Perylene-d12	18.718	264	2022809	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.746	152	464862	40.00	ppm	0.00
103) Acenaphthene-d10a	8.255	164	1201909	40.00	ppm	0.00
106) Chrysene-d12a	16.085	240	2301445	40.00	ppm	-0.01
108) Naphthalene-d8a	5.889	136	1816504	40.00	ppm	0.00
110) Chrysene-d12b	16.085	240	2301445	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.790	112	303859	20.65	ppm	0.01
Spiked Amount 50.000			Recovery = 41.30%			
8) Phenol-d5	4.511	99	309142	16.42	ppm	0.04
Spiked Amount 50.000			Recovery = 32.84%			
25) Nitrobenzene-d5	5.205	82	684682	40.79	ppm	0.00
Spiked Amount 50.000			Recovery = 81.58%			
51) 2-Fluorobiphenyl	7.229	172	1267067	30.27	ppm	-0.02
Spiked Amount 50.000			Recovery = 60.54%			
73) 2,4,6-Tribromophenol	9.627	330	247561	37.74	ppm	-0.01
Spiked Amount 50.000			Recovery = 75.48%			
85) Terphenyl-d14	14.071	244	1608000	29.65	ppm	-0.01
Spiked Amount 50.000			Recovery = 59.30%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.294	88	187211	26.54	ppm	91

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

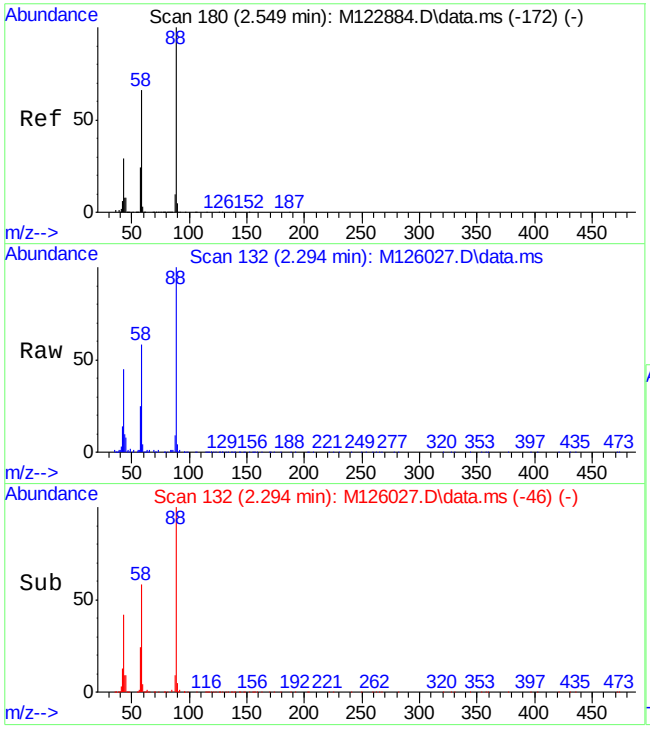
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126027.D
Acq On : 11 Jul 2016 6:11 pm
Operator : ashleyd
Sample : jc23654-3
Misc : op95394a,em5342,900
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 12 13:32:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration



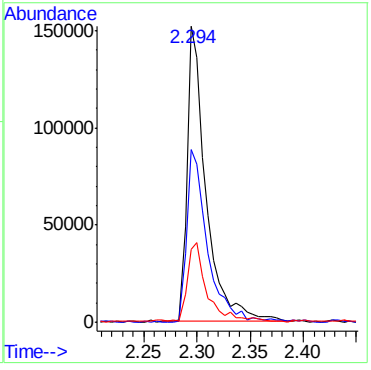
MM5307.M Tue Jul 12 13:32:42 2016 MSM



#2
1,4-Dioxane
Concen: 26.54 ppm
RT: 2.294 min Scan# 132
Delta R.T. -0.041 min
Lab File: M126027.D
Acq: 11 Jul 2016 6:11 pm

Tgt Ion: 88 Resp: 187211

Ion	Ratio	Lower	Upper
88	100		
58	58.2	36.4	96.4
57	23.9	0.0	56.4



7.1.6

7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62907.D
Acq On : 11 Jul 2016 5:34 pm
Operator : ashleyd
Sample : jc23654-4
Misc : op95434a,e3m2971,910
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 12 14:44:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

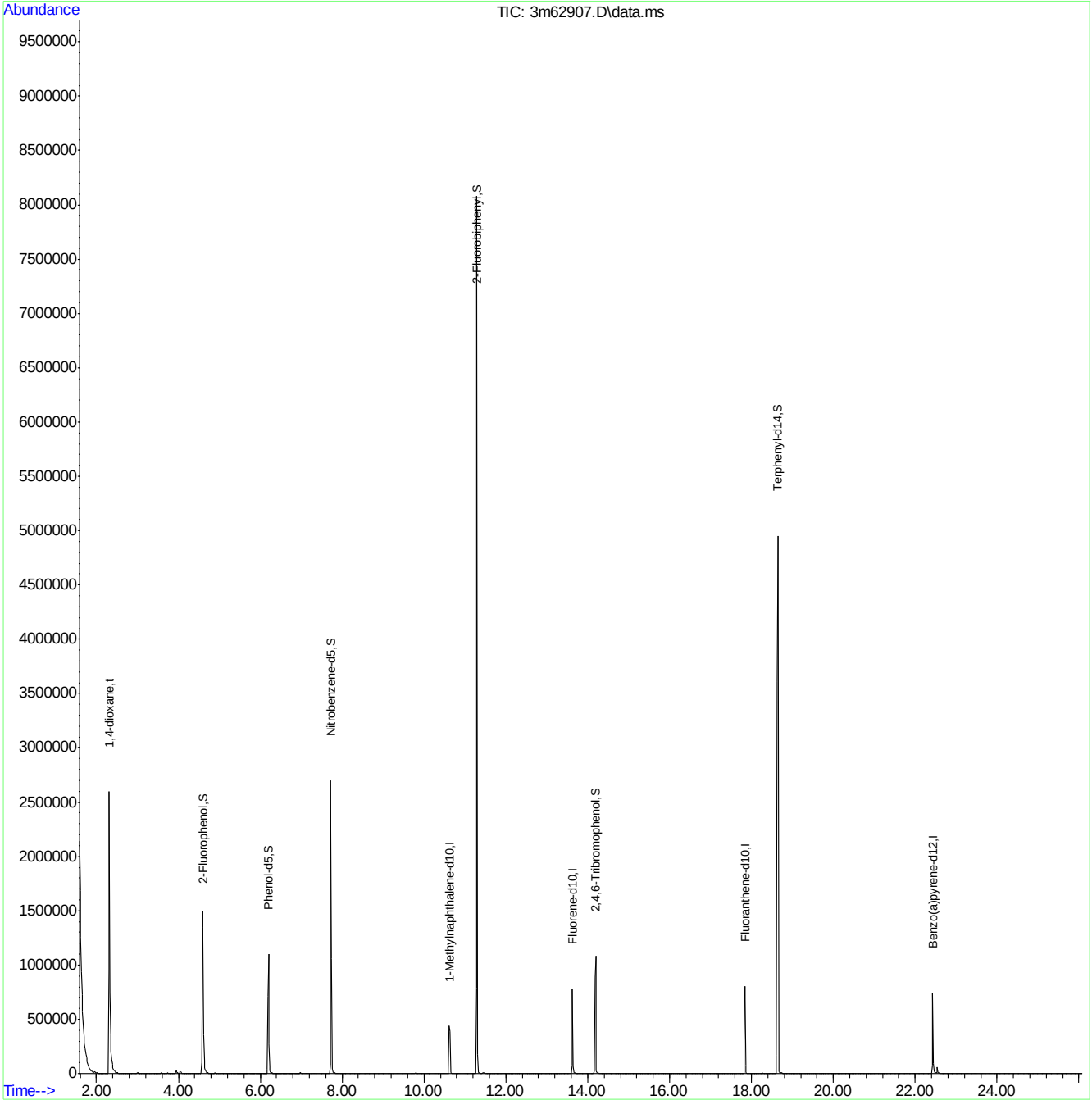
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.619	150	383567	4.00	ppm	0.00
14) Fluorene-d10	13.630	176	549716	4.00	ppm	0.00
21) Fluoranthene-d10	17.842	212	878668	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	753165	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.600	112	1498966	24.95	ppm	-0.05
Spiked Amount 50.000			Recovery = 49.90%			
4) Phenol-d5	6.200	99	1544511	16.24	ppm	0.00
Spiked Amount 50.000			Recovery = 32.48%			
7) Nitrobenzene-d5	7.726	82	2953940	37.97	ppm	-0.05
Spiked Amount 50.000			Recovery = 75.94%			
15) 2-Fluorobiphenyl	11.296	172	6635606	39.43	ppm	-0.02
Spiked Amount 50.000			Recovery = 78.86%			
20) 2,4,6-Tribromophenol	14.196	330	926827	52.17	ppm	0.05
Spiked Amount 50.000			Recovery = 104.34%			
28) Terphenyl-d14	18.646	244	5384860	40.70	ppm	0.03
Spiked Amount 50.000			Recovery = 81.40%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.313	88	2376938	100.16	ppm	# 52

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

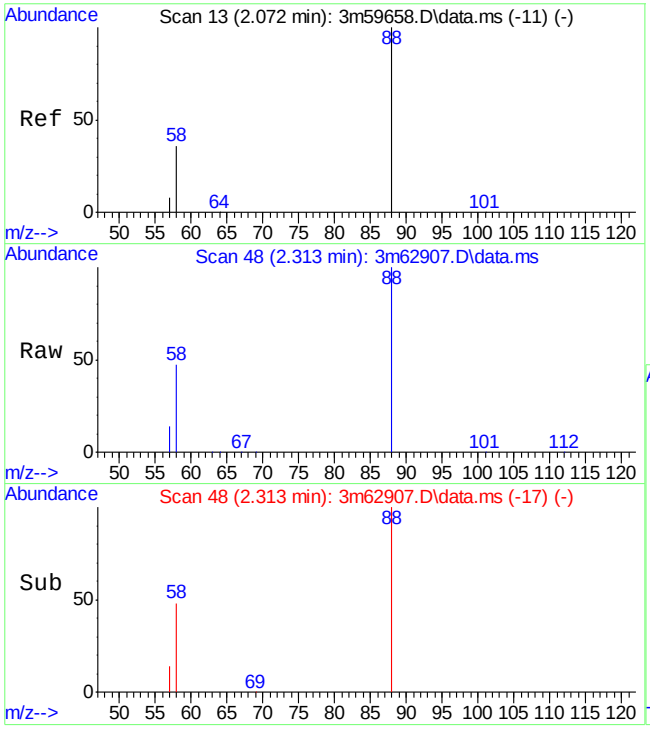
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62907.D
Acq On : 11 Jul 2016 5:34 pm
Operator : ashleyd
Sample : jc23654-4
Misc : op95434a,e3m2971,910
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 12 14:44:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration



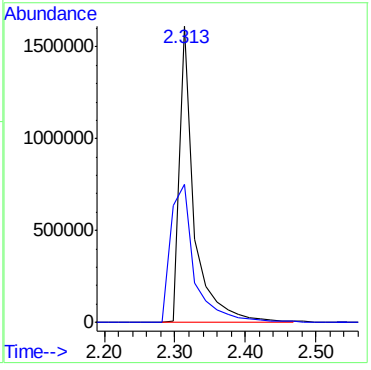
SGS ACCUTEST JC23654



#2
1,4-dioxane
Concen: 100.16 ppm
RT: 2.313 min Scan# 48
Delta R.T. -0.023 min
Lab File: 3m62907.D
Acq: 11 Jul 2016 5:34 pm

Tgt Ion: 88 Resp: 2376938

Ion	Ratio	Lower	Upper
88	100		
58	46.8	72.6	112.6#



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29604.D
Acq On : 12 Jul 16 6:33 pm
Operator : robertl1
Sample : jc23654-4
Misc : op95434a,e5p1510,910,,,1,5
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 13 10:25:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue Jul 12 17:39:26 2016
Response via : Initial Calibration

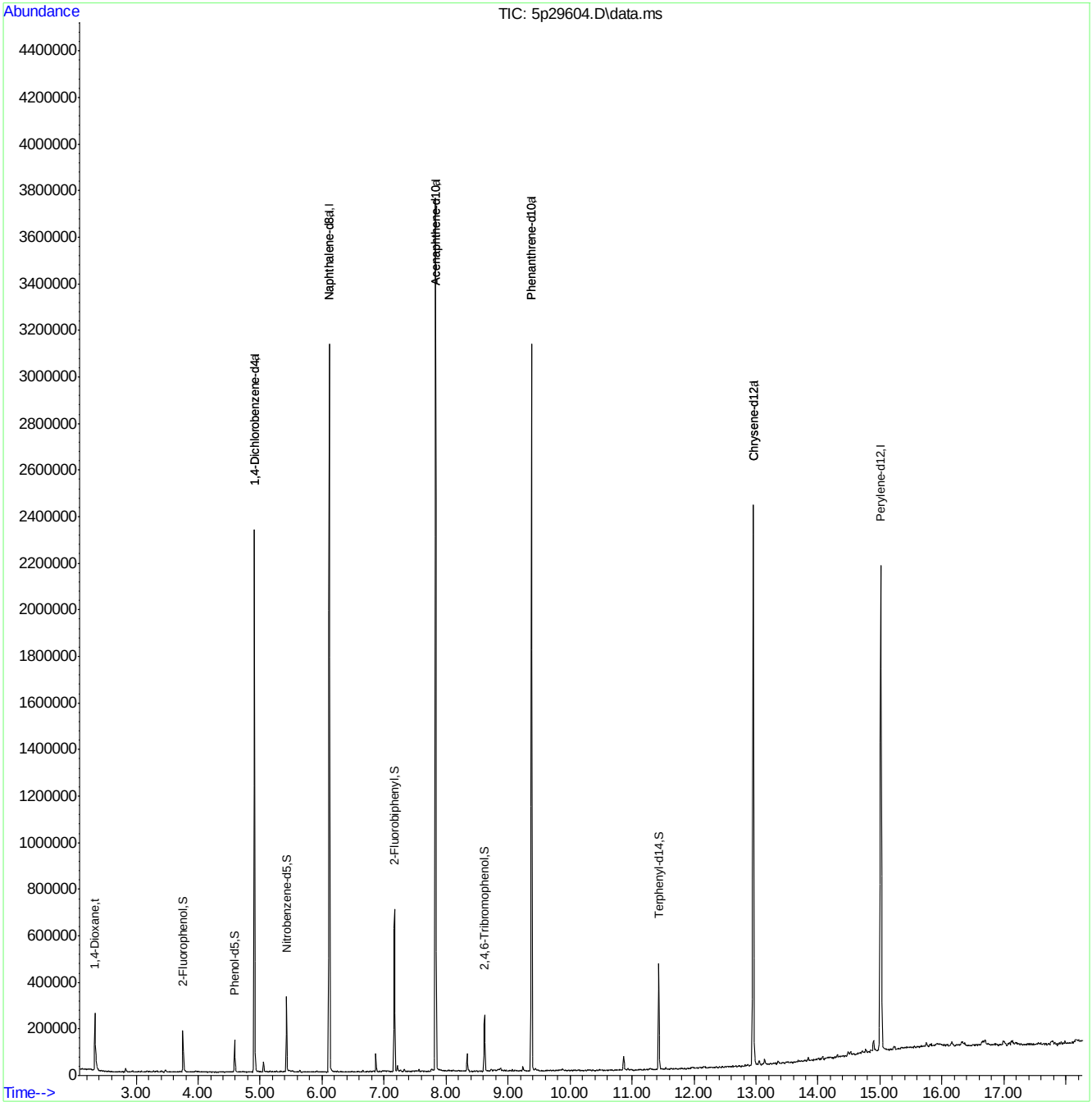
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.908	152	328601	40.00	ppm	-0.03
24) Naphthalene-d8	6.115	136	1268246	40.00	ppm	-0.03
47) Acenaphthene-d10	7.830	164	786014	40.00	ppm	-0.04
69) Phenanthrene-d10	9.380	188	1202340	40.00	ppm	-0.05
83) Chrysene-d12	12.959	240	1067095	40.00	ppm	-0.07
91) Perylene-d12	15.016	264	985618	40.00	ppm	-0.07
101) 1,4-Dichlorobenzene-d4a	4.908	152	328601	40.00	ppm	-0.03
103) Acenaphthene-d10a	7.830	164	786014	40.00	ppm	-0.04
105) Chrysene-d12a	12.959	240	1067116	40.00	ppm	-0.07
107) Phenanthrene-d10a	9.380	188	1202340	40.00	ppm	-0.05
109) Naphthalene-d8a	6.115	136	1268246	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.754	112	58367	5.84	ppm	-0.03
Spiked Amount 50.000			Recovery	=	11.68%	
8) Phenol-d5	4.593	99	46973	3.87	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.74%	
25) Nitrobenzene-d5	5.426	82	87453	9.48	ppm	-0.03
Spiked Amount 50.000			Recovery	=	18.96%	
51) 2-Fluorobiphenyl	7.168	172	200510	9.53	ppm	-0.04
Spiked Amount 50.000			Recovery	=	19.06%	
73) 2,4,6-Tribromophenol	8.621	330	24946	9.76	ppm	-0.04
Spiked Amount 50.000			Recovery	=	19.52%	
85) Terphenyl-d14	11.431	244	157960	7.77	ppm	-0.07
Spiked Amount 50.000			Recovery	=	15.54%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.333	88	98842	22.11	ppm	98

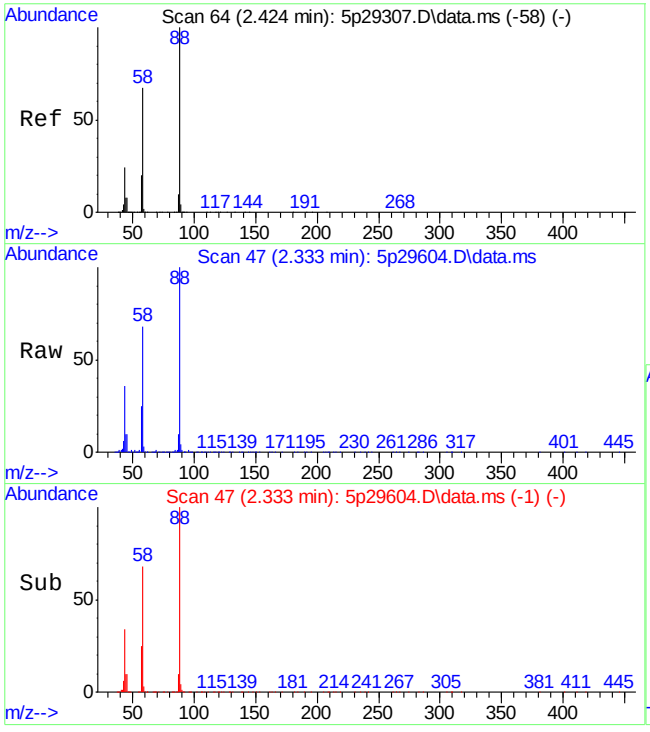
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29604.D
Acq On : 12 Jul 16 6:33 pm
Operator : robertl1
Sample : jc23654-4
Misc : op95434a,e5p1510,910,,,1,5
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 13 10:25:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue Jul 12 17:39:26 2016
Response via : Initial Calibration

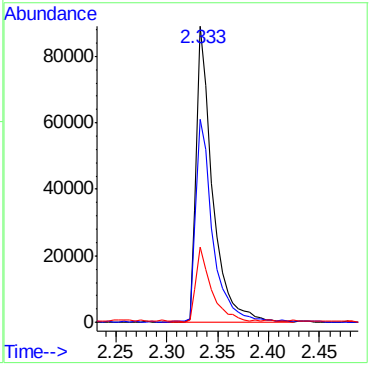




#2
1,4-Dioxane
Concen: 22.11 ppm
RT: 2.333 min Scan# 47
Delta R.T. -0.065 min
Lab File: 5p29604.D
Acq: 12 Jul 16 6:33 pm

Tgt Ion: 88 Resp: 98842

Ion	Ratio	Lower	Upper
88	100		
58	68.2	38.3	98.3
57	24.8	0.0	50.2



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62900.D
Acq On : 11 Jul 2016 1:44 pm
Operator : ashleyd
Sample : jc23654-5
Misc : op95394a,e3m2971,910
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 11 14:38:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

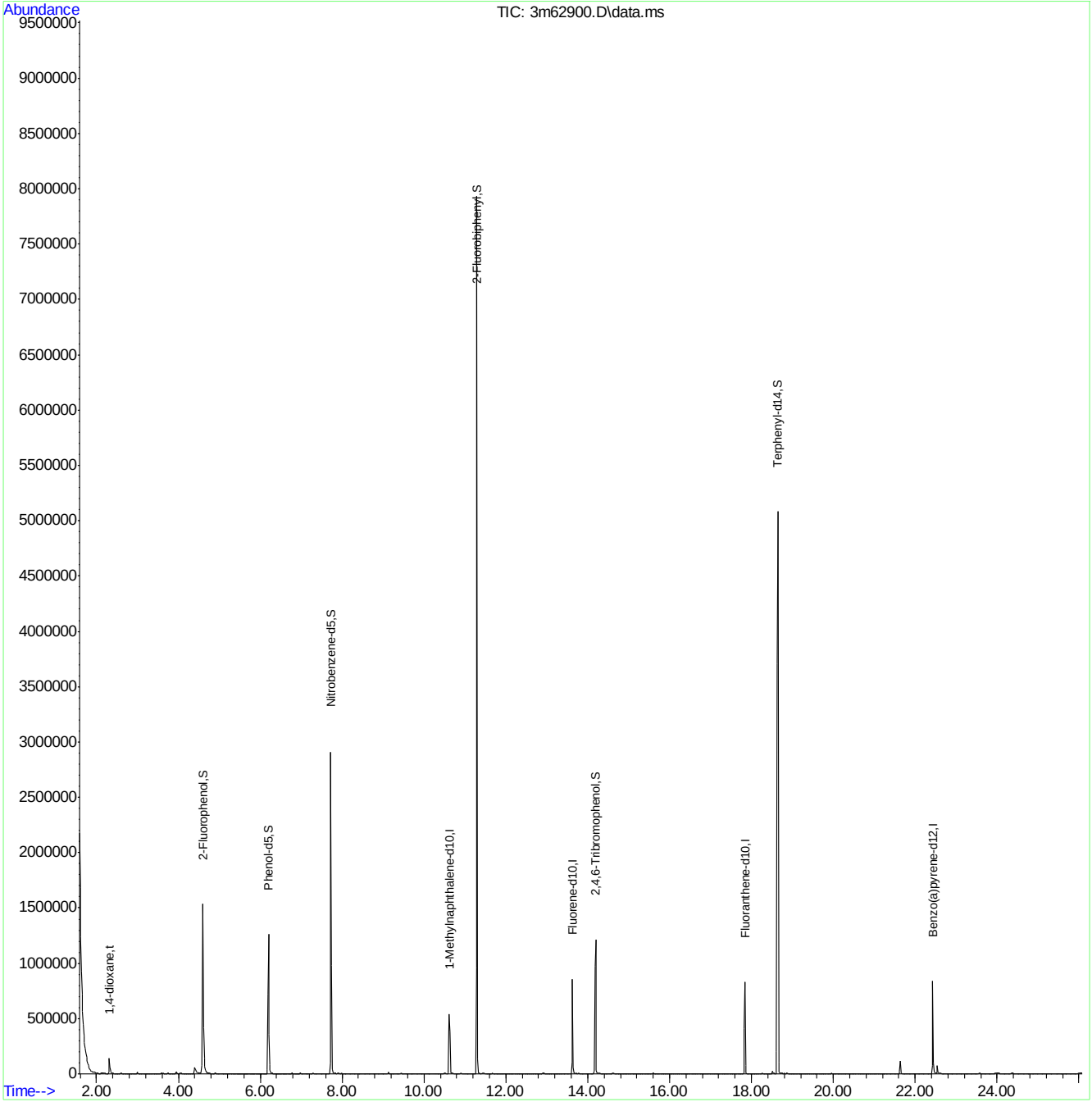
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.620	150	425964	4.00 ppm	0.00
14) Fluorene-d10	13.631	176	610637	4.00 ppm	0.00
21) Fluoranthene-d10	17.842	212	969713	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	830155	4.00 ppm	0.00
System Monitoring Compounds					
3) 2-Fluorophenol	4.600	112	1586423	23.78 ppm	-0.05
Spiked Amount 50.000			Recovery = 47.56%		
4) Phenol-d5	6.200	99	1739248	16.47 ppm	0.00
Spiked Amount 50.000			Recovery = 32.94%		
7) Nitrobenzene-d5	7.726	82	3087652	35.74 ppm	-0.05
Spiked Amount 50.000			Recovery = 71.48%		
15) 2-Fluorobiphenyl	11.296	172	6699573	35.84 ppm	-0.02
Spiked Amount 50.000			Recovery = 71.68%		
20) 2,4,6-Tribromophenol	14.196	330	1026871	52.04 ppm	0.05
Spiked Amount 50.000			Recovery = 104.08%		
28) Terphenyl-d14	18.646	244	5532580	37.89 ppm	0.03
Spiked Amount 50.000			Recovery = 75.78%		
Target Compounds					Qvalue
2) 1,4-dioxane	2.313	88	122508	4.65 ppm	83

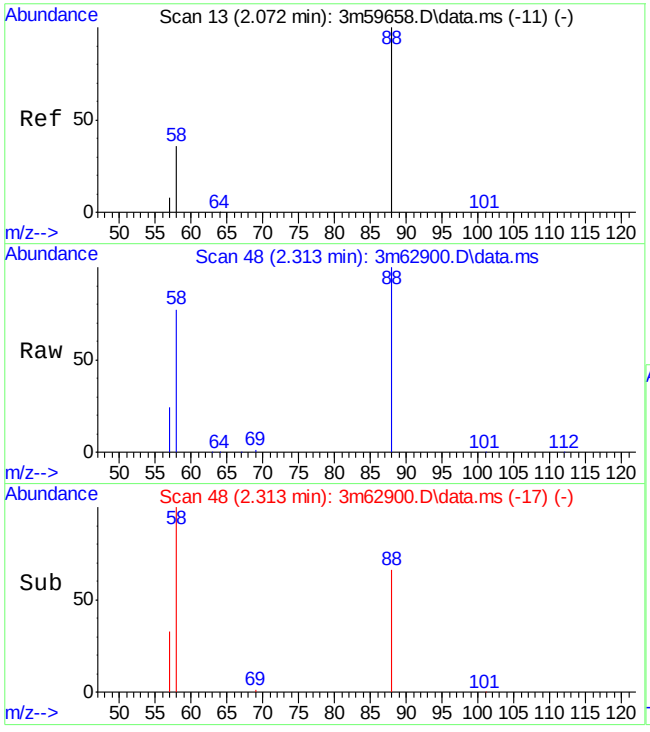
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62900.D
Acq On : 11 Jul 2016 1:44 pm
Operator : ashleyd
Sample : jc23654-5
Misc : op95394a,e3m2971,910
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jul 11 14:38:43 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

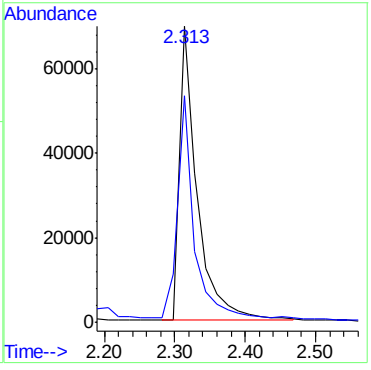




#2
1,4-dioxane
Concen: 4.65 ppm
RT: 2.313 min Scan# 48
Delta R.T. -0.023 min
Lab File: 3m62900.D
Acq: 11 Jul 2016 1:44 pm

Tgt Ion: 88 Resp: 122508

Ion	Ratio	Lower	Upper
88	100		
58	75.9	72.6	112.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66746.D
Acq On : 9 Jul 2016 3:24 pm
Operator : ashleyd
Sample : OP95394A-MB1
Misc : op95394a,e4m3003,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 12:16:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

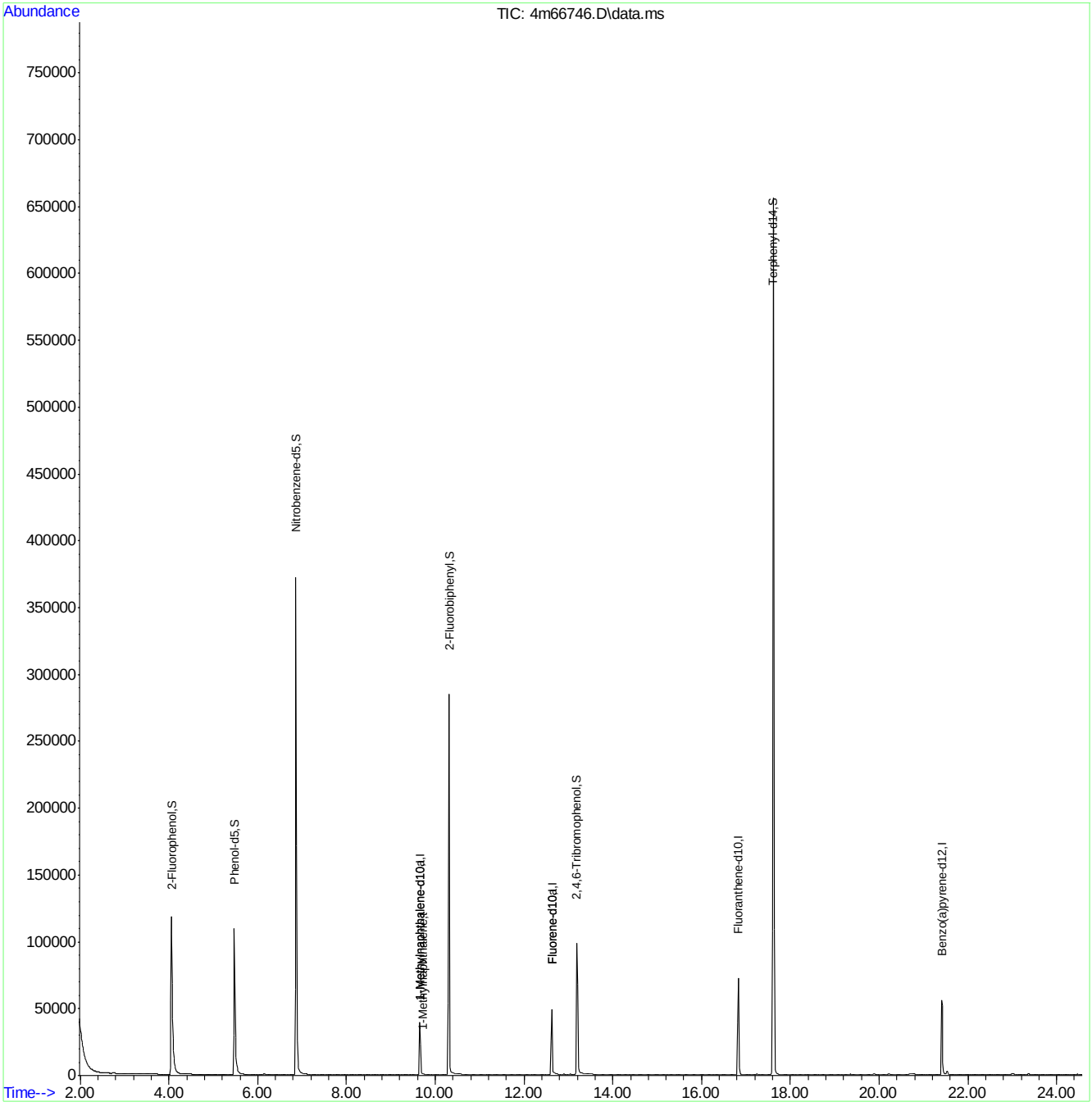
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	33803	4.00	ppm	-0.02
12) Fluorene-d10	12.636	176	56716	4.00	ppm	-0.02
22) Fluoranthene-d10	16.826	212	101714	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.410	264	83371	4.00	ppm	-0.04
35) 1-Methylnaphthalene-d10a	9.667	152	33803	4.00	ppm	-0.02
38) Fluorene-d10a	12.636	176	56716	4.00	ppm	-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	4.058	112	141212	26.22	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 52.44%			
3) Phenol-d5	5.470	99	154064	18.14	ppm	0.04
Spiked Amount 50.000			Recovery = 36.28%			
6) Nitrobenzene-d5	6.860	82	288306	38.16	ppm	-0.04
Spiked Amount 50.000			Recovery = 76.32%			
11) 2-Fluorobiphenyl	10.311	172	370752	27.25	ppm	-0.02
Spiked Amount 50.000			Recovery = 54.50%			
17) 2,4,6-Tribromophenol	13.185	330	115279	43.61	ppm	-0.02
Spiked Amount 50.000			Recovery = 87.22%			
25) Terphenyl-d14	17.617	244	748011	52.08	ppm	-0.03
Spiked Amount 50.000			Recovery = 104.16%			
Target Compounds						Qvalue
37) 1-Methylnaphthalene	9.715	142	122	0.01	ppm #	81

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66746.D
Acq On : 9 Jul 2016 3:24 pm
Operator : ashleyd
Sample : OP95394A-MB1
Misc : op95394a,e4m3003,1000
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 12:16:29 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62895.D
Acq On : 11 Jul 2016 11:00 am
Operator : ashleyd
Sample : op95394a-mb1
Misc : op95394a,e3m2971,1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 11 14:34:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.620	150	415334	4.00	ppm	0.00
14) Fluorene-d10	13.630	176	585762	4.00	ppm	0.00
21) Fluoranthene-d10	17.842	212	942832	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	839845	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.600	112	1533816	23.58	ppm	-0.05
Spiked Amount 50.000			Recovery = 47.16%			
4) Phenol-d5	6.200	99	1583286	15.38	ppm	0.00
Spiked Amount 50.000			Recovery = 30.76%			
7) Nitrobenzene-d5	7.726	82	2972469	35.28	ppm	-0.05
Spiked Amount 50.000			Recovery = 70.56%			
15) 2-Fluorobiphenyl	11.296	172	4535994	25.29	ppm	-0.02
Spiked Amount 50.000			Recovery = 50.58%			
20) 2,4,6-Tribromophenol	14.177	330	1014646	53.60	ppm	0.03
Spiked Amount 50.000			Recovery = 107.20%			
28) Terphenyl-d14	18.646	244	7643477	53.84	ppm	0.03
Spiked Amount 50.000			Recovery = 107.68%			

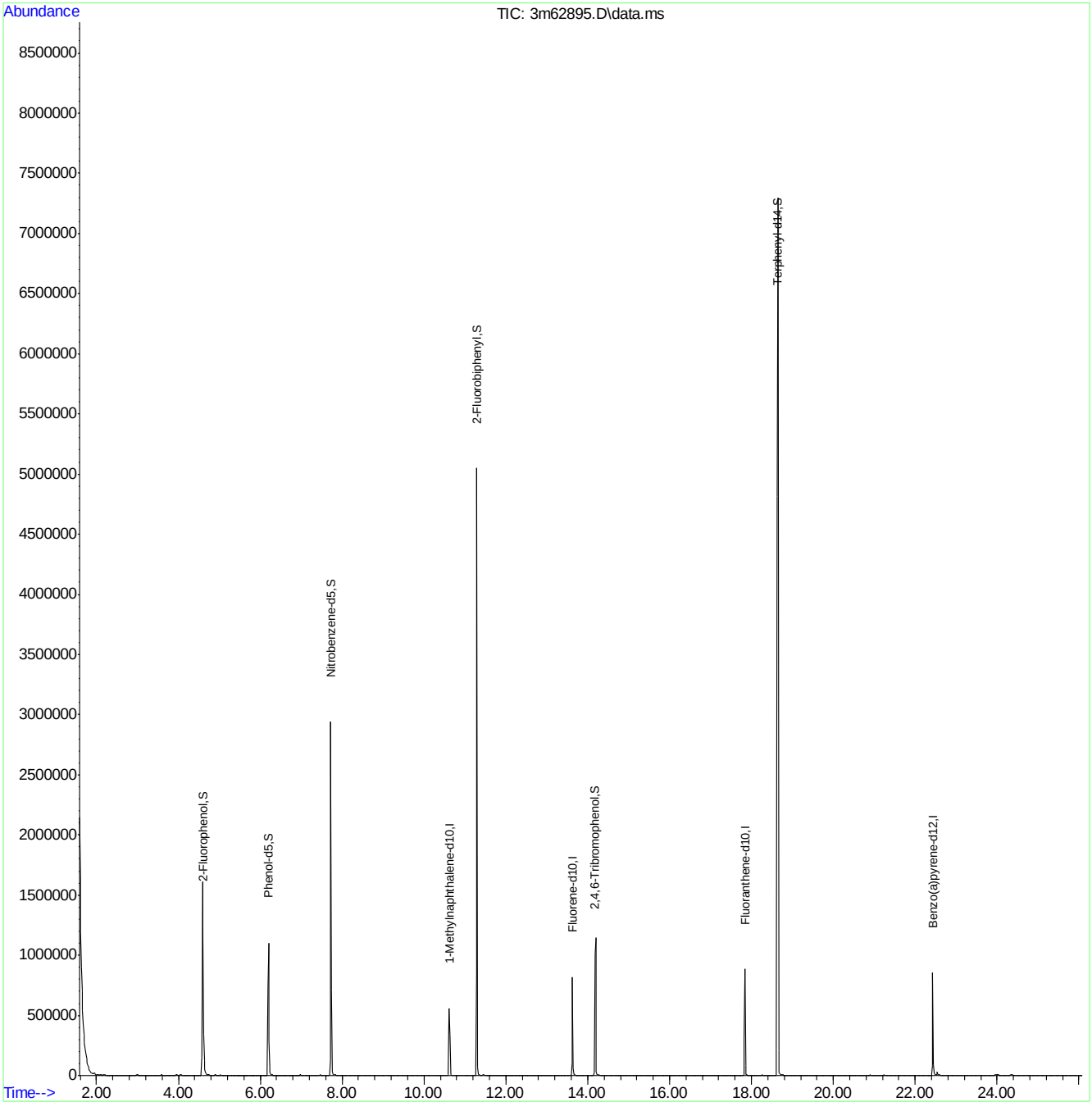
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62895.D
Acq On : 11 Jul 2016 11:00 am
Operator : ashleyd
Sample : op95394a-mb1
Misc : op95394a,e3m2971,1000
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 11 14:34:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration



M3M2942SIM.M Mon Jul 11 14:34:46 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126024.D
Acq On : 11 Jul 2016 4:45 pm
Operator : ashleyd
Sample : op95394a-mb1
Misc : op95394a,em5342,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 12 13:28:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.741	152	486186	40.00	ppm	0.00
24) Naphthalene-d8	5.890	136	1894900	40.00	ppm	0.00
47) Acenaphthene-d10	8.256	164	1265578	40.00	ppm	0.00
69) Phenanthrene-d10	10.894	188	2353414	40.00	ppm	0.00
83) Chrysene-d12	16.086	240	2422455	40.00	ppm	0.00
91) Perylene-d12	18.719	264	2101241	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.741	152	486186	40.00	ppm	0.00
103) Acenaphthene-d10a	8.256	164	1265578	40.00	ppm	0.00
106) Chrysene-d12a	16.086	240	2422455	40.00	ppm	0.00
108) Naphthalene-d8a	5.890	136	1894900	40.00	ppm	0.00
110) Chrysene-d12b	16.086	240	2422455	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.791	112	321078	20.86	ppm	0.01
Spiked Amount 50.000			Recovery = 41.72%			
8) Phenol-d5	4.506	99	299548	15.22	ppm	0.04
Spiked Amount 50.000			Recovery = 30.44%			
25) Nitrobenzene-d5	5.201	82	665557	38.01	ppm	0.00
Spiked Amount 50.000			Recovery = 76.02%			
51) 2-Fluorobiphenyl	7.230	172	908131	20.60	ppm	-0.02
Spiked Amount 50.000			Recovery = 41.20%			
73) 2,4,6-Tribromophenol	9.629	330	277024	40.42	ppm	-0.01
Spiked Amount 50.000			Recovery = 80.84%			
85) Terphenyl-d14	14.072	244	2211878	38.75	ppm	-0.01
Spiked Amount 50.000			Recovery = 77.50%			

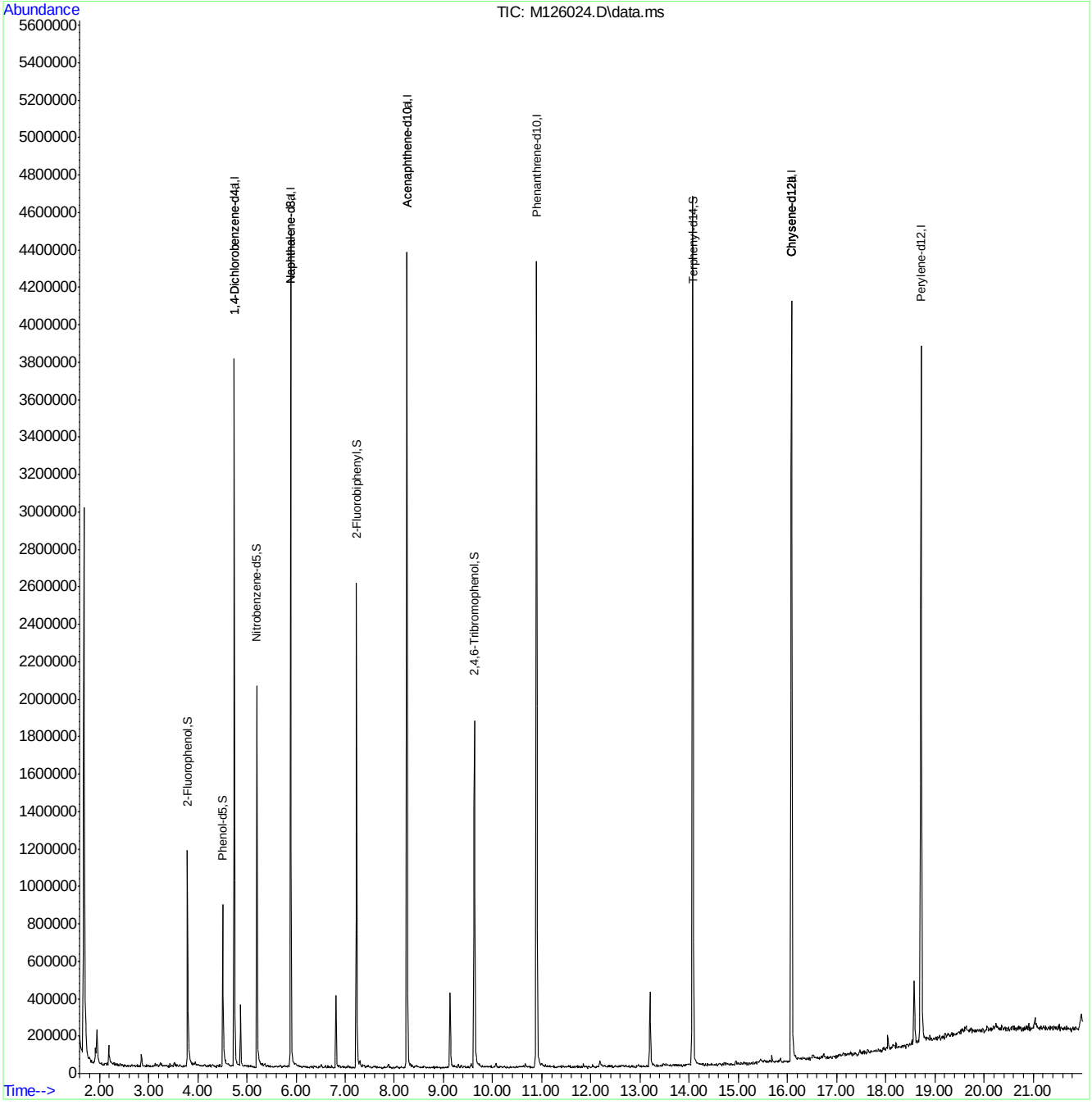
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126024.D
Acq On : 11 Jul 2016 4:45 pm
Operator : ashleyd
Sample : op95394a-mb1
Misc : op95394a,em5342,1000
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 12 13:28:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration



MM5307.M Tue Jul 12 15:11:09 2016 MSM

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66802.D
Acq On : 12 Jul 2016 2:55 pm
Operator : hankc
Sample : op95394a-mb1
Misc : op95394a,e4m3006,1000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 13 12:30:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jul 12 08:32:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.571	152	36063	4.00	ppm	-0.05
12) Fluorene-d10	12.564	176	61952	4.00	ppm	-0.05
22) Fluoranthene-d10	16.751	212	117176	4.00	ppm	-0.04
28) Benzo(a)pyrene-d12	21.355	264	88862	4.00	ppm	-0.04
35) 1-Methylnaphthalene-d10a	9.571	152	36063	4.00	ppm	#-0.05
38) Fluorene-d10a	12.564	176	61952	4.00	ppm	-0.05
System Monitoring Compounds						
2) 2-Fluorophenol	3.986	112	146887	25.56	ppm	-0.03
Spiked Amount 50.000	Range 11 - 58		Recovery = 51.12%			
3) Phenol-d5	5.401	99	161233	17.79	ppm	-0.03
Spiked Amount 50.000			Recovery = 35.58%			
6) Nitrobenzene-d5	6.798	82	309904	38.45	ppm	-0.03
Spiked Amount 50.000			Recovery = 76.90%			
11) 2-Fluorobiphenyl	10.240	172	425784	29.33	ppm	-0.05
Spiked Amount 50.000			Recovery = 58.66%			
17) 2,4,6-Tribromophenol	13.114	330	126832	43.93	ppm	-0.05
Spiked Amount 50.000			Recovery = 87.86%			
25) Terphenyl-d14	17.561	244	908934	54.93	ppm	-0.04
Spiked Amount 50.000			Recovery = 109.86%			
Target Compounds						Qvalue

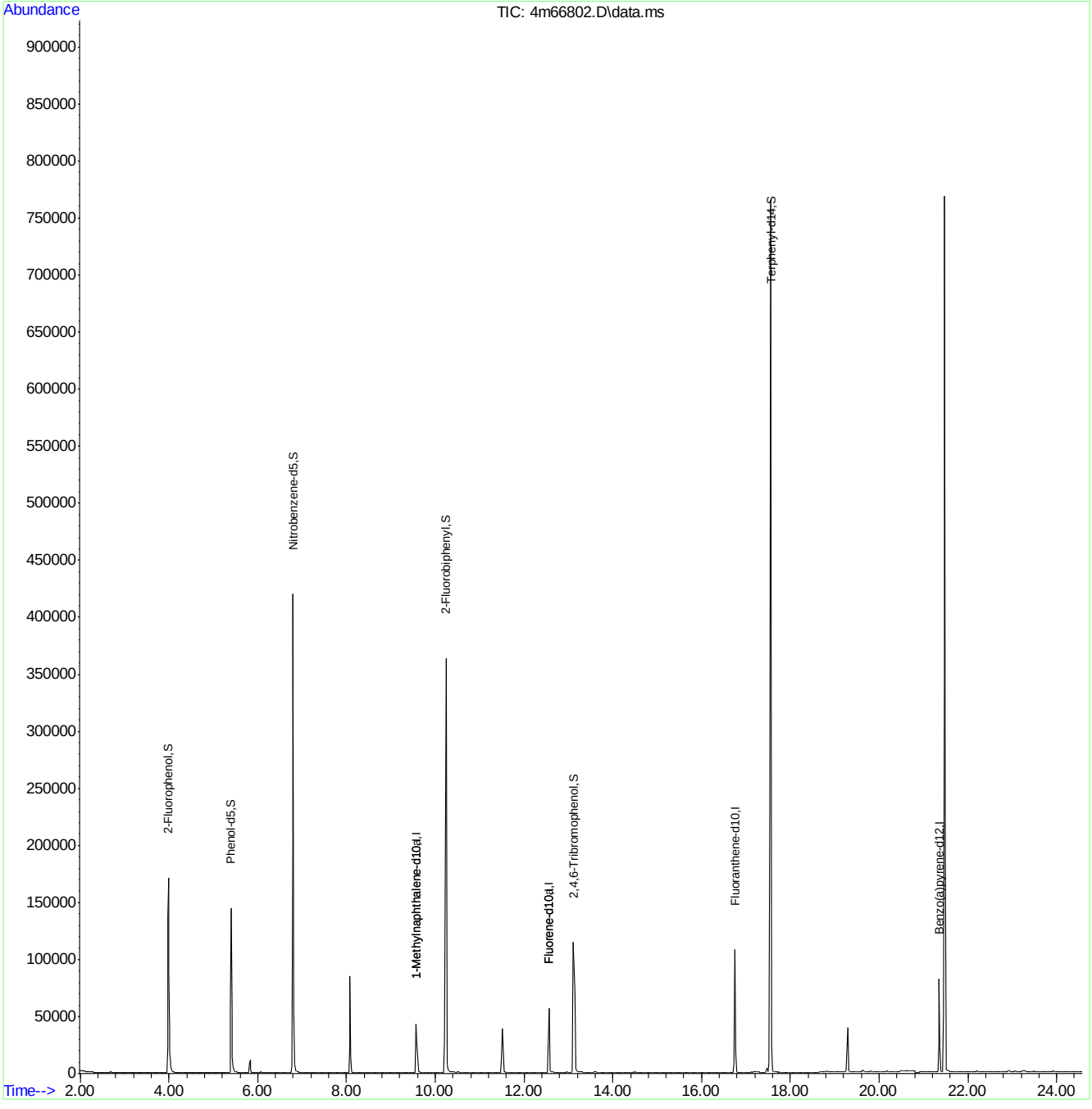
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66802.D
Acq On : 12 Jul 2016 2:55 pm
Operator : hankc
Sample : op95394a-mb1
Misc : op95394a,e4m3006,1000
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 13 12:30:53 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jul 12 08:32:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62903.D
Acq On : 11 Jul 2016 3:23 pm
Operator : ashleyd
Sample : op95434a-mb1
Misc : op95434a,e3m2971,1000
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 11 16:29:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.619	150	343780	4.00	ppm	0.00
14) Fluorene-d10	13.630	176	482251	4.00	ppm	0.00
21) Fluoranthene-d10	17.842	212	765681	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	660028	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.585	112	1259400	23.39	ppm	-0.07
Spiked Amount 50.000			Recovery = 46.78%			
4) Phenol-d5	6.188	99	1268023	14.88	ppm	-0.01
Spiked Amount 50.000			Recovery = 29.76%			
7) Nitrobenzene-d5	7.726	82	2591429	37.16	ppm	-0.05
Spiked Amount 50.000			Recovery = 74.32%			
15) 2-Fluorobiphenyl	11.296	172	5651291	38.28	ppm	-0.02
Spiked Amount 50.000			Recovery = 76.56%			
20) 2,4,6-Tribromophenol	14.177	330	829928	53.25	ppm	0.03
Spiked Amount 50.000			Recovery = 106.50%			
28) Terphenyl-d14	18.646	244	6575733	57.03	ppm	0.03
Spiked Amount 50.000			Recovery = 114.06%			

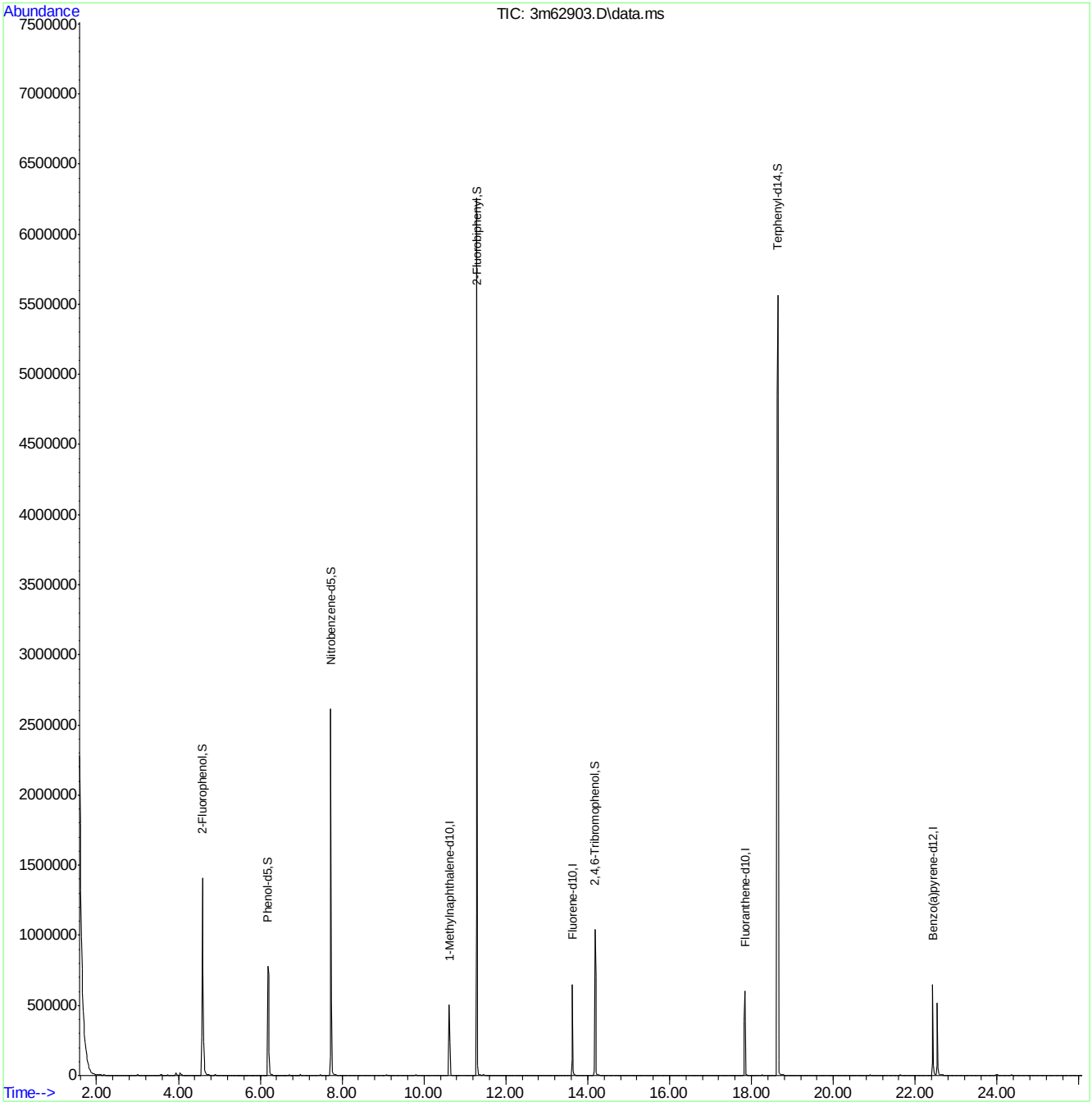
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62903.D
Acq On : 11 Jul 2016 3:23 pm
Operator : ashleyd
Sample : op95434a-mb1
Misc : op95434a,e3m2971,1000
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 11 16:29:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration



M3M2942SIM.M Mon Jul 11 16:29:08 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29603.D
Acq On : 12 Jul 2016 6:08 pm
Operator : robertl1
Sample : op95434a-mb1
Misc : op95434a,e5p1510,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 13 10:24:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue Jul 12 17:39:26 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.908	152	368382	40.00	ppm	-0.03
24) Naphthalene-d8	6.116	136	1363553	40.00	ppm	-0.03
47) Acenaphthene-d10	7.830	164	758664	40.00	ppm	-0.04
69) Phenanthrene-d10	9.380	188	1184895	40.00	ppm	-0.05
83) Chrysene-d12	12.959	240	1114503	40.00	ppm	-0.07
91) Perylene-d12	15.016	264	1005103	40.00	ppm	-0.07
101) 1,4-Dichlorobenzene-d4a	4.908	152	368382	40.00	ppm	-0.03
103) Acenaphthene-d10a	7.830	164	758664	40.00	ppm	-0.04
105) Chrysene-d12a	12.959	240	1114503	40.00	ppm	-0.07
107) Phenanthrene-d10a	9.380	188	1184895	40.00	ppm	-0.05
109) Naphthalene-d8a	6.116	136	1363553	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.754	112	287267	25.62	ppm	-0.03
Spiked Amount 50.000			Recovery = 51.24%			
8) Phenol-d5	4.593	99	236877	17.40	ppm	0.00
Spiked Amount 50.000			Recovery = 34.80%			
25) Nitrobenzene-d5	5.426	82	416981	42.03	ppm	-0.03
Spiked Amount 50.000			Recovery = 84.06%			
51) 2-Fluorobiphenyl	7.168	172	921487	45.39	ppm	-0.04
Spiked Amount 50.000			Recovery = 90.78%			
73) 2,4,6-Tribromophenol	8.621	330	122798	48.73	ppm	-0.04
Spiked Amount 50.000			Recovery = 97.46%			
85) Terphenyl-d14	11.436	244	1038269	48.89	ppm	-0.06
Spiked Amount 50.000			Recovery = 97.78%			

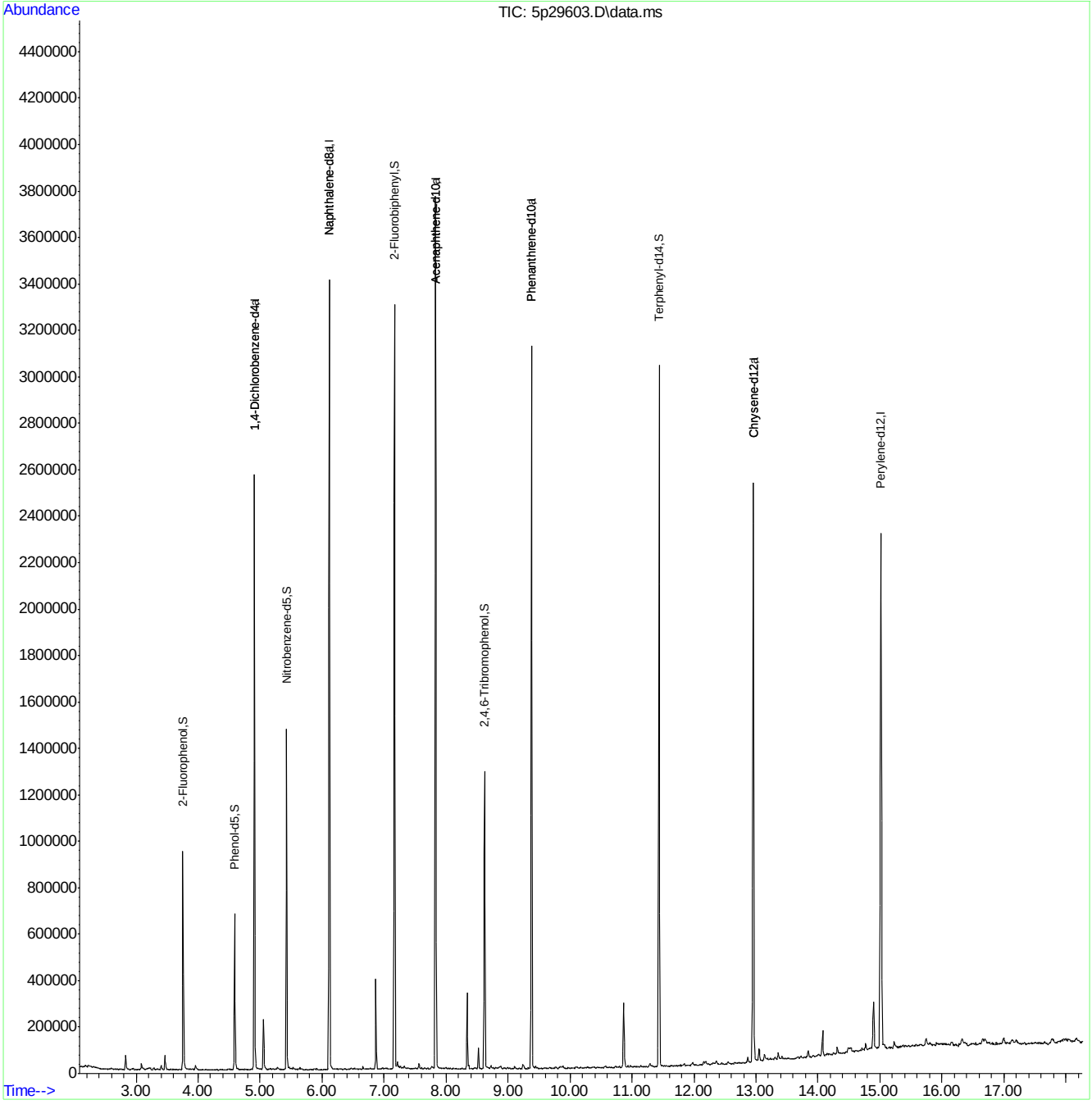
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29603.D
Acq On : 12 Jul 2016 6:08 pm
Operator : robertl1
Sample : op95434a-mb1
Misc : op95434a,e5p1510,1000
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 13 10:24:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Tue Jul 12 17:39:26 2016
Response via : Initial Calibration



M5P1496.M Wed Jul 13 10:24:40 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3004\
Data File : 4m66789.D
Acq On : 11 Jul 2016 3:57 pm
Operator : ashleyd
Sample : op95394a-bs12
Misc : op95394a,e4m3004,1000
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 11 17:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 11 15:14:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.619	152	27293	4.00	ppm	#-0.07
12) Fluorene-d10	12.612	176	47609	4.00	ppm	-0.07
22) Fluoranthene-d10	16.807	212	84435	4.00	ppm	#-0.04
28) Benzo(a)pyrene-d12	21.396	264	77909	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.619	152	27293	4.00	ppm	#-0.07
38) Fluorene-d10a	12.612	176	47609	4.00	ppm	-0.07
System Monitoring Compounds						
2) 2-Fluorophenol	4.017	112	111377	25.61	ppm	-0.03
Spiked Amount 50.000	Range 11 - 58		Recovery = 51.22%			
3) Phenol-d5	5.442	99	122712	17.89	ppm	-0.03
Spiked Amount 50.000			Recovery = 35.78%			
6) Nitrobenzene-d5	6.829	82	208973	34.26	ppm	-0.05
Spiked Amount 50.000			Recovery = 68.52%			
11) 2-Fluorobiphenyl	10.287	172	324502	29.54	ppm	-0.08
Spiked Amount 50.000			Recovery = 59.08%			
17) 2,4,6-Tribromophenol	13.161	330	95877	43.21	ppm	-0.07
Spiked Amount 50.000			Recovery = 86.42%			
25) Terphenyl-d14	17.598	244	652629	54.73	ppm	-0.06
Spiked Amount 50.000			Recovery = 109.46%			
Target Compounds						Qvalue
4) Phenol	5.456	94	12983	1.75	ppm	48
5) bis(2-Chloroethyl)ether	5.483	93	3619	0.69	ppm	80
7) Naphthalene	8.175	128	8990	0.47	ppm	96
8) Hexachlorobutadiene	8.438	225	1208	0.37	ppm	99
9) 2-Methylnaphthalene	9.500	142	4766	0.53	ppm #	56
13) Acenaphthylene	11.266	152	9844	0.78	ppm	96
14) Acenaphthene	11.609	153	5923	0.76	ppm	98
15) Dibenzofuran	11.986	168	9779	0.77	ppm	100
16) Fluorene	12.660	166	10499	0.75	ppm	97
18) Hexachlorobenzene	13.738	284	2691	0.57	ppm	82
19) Pentachlorophenol	14.209	266	7543	4.35	ppm	96
20) Phenanthrene	14.567	178	17509	0.92	ppm	97
21) Anthracene	14.661	178	16381	0.93	ppm	91
23) Fluoranthene	16.826	202	22437	0.91	ppm	98
24) Pyrene	17.222	202	23316	0.97	ppm	97
26) Benzo[a]anthracene	19.311	228	22792	1.09	ppm #	90
27) Chrysene	19.368	228	20657	0.95	ppm	90
29) Benzo[b]fluoranthene	20.983	252	21554	0.80	ppm	95
30) Benzo[k]fluoranthene	21.010	252	19933	0.76	ppm	92
31) Benzo[a]pyrene	21.437	252	19484	0.80	ppm	91
32) Indeno[1,2,3-cd]pyrene	22.952	276	23902	0.84	ppm	93
33) Dibenz[a,h]anthracene	22.979	278	20130	0.85	ppm	95
34) Benzo[g,h,i]perylene	23.337	276	20012	0.80	ppm	98
36) 1,4-Dioxane	2.174	88	765	0.36	ppm #	3
39) 4,6-dinitro-2-methylph...	12.875	198	8548	3.83	ppm	96
40) 1,2-Diphenylhydrazine	13.018	77	10627	0.81	ppm	99
41) n-nitrosodiphenylamine	12.994	169	7258	0.78	ppm #	67

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3004\
Data File : 4m66789.D
Acq On : 11 Jul 2016 3:57 pm
Operator : ashleyd
Sample : op95394a-bs12
Misc : op95394a,e4m3004,1000
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 11 17:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 11 15:14:51 2016
Response via : Initial Calibration

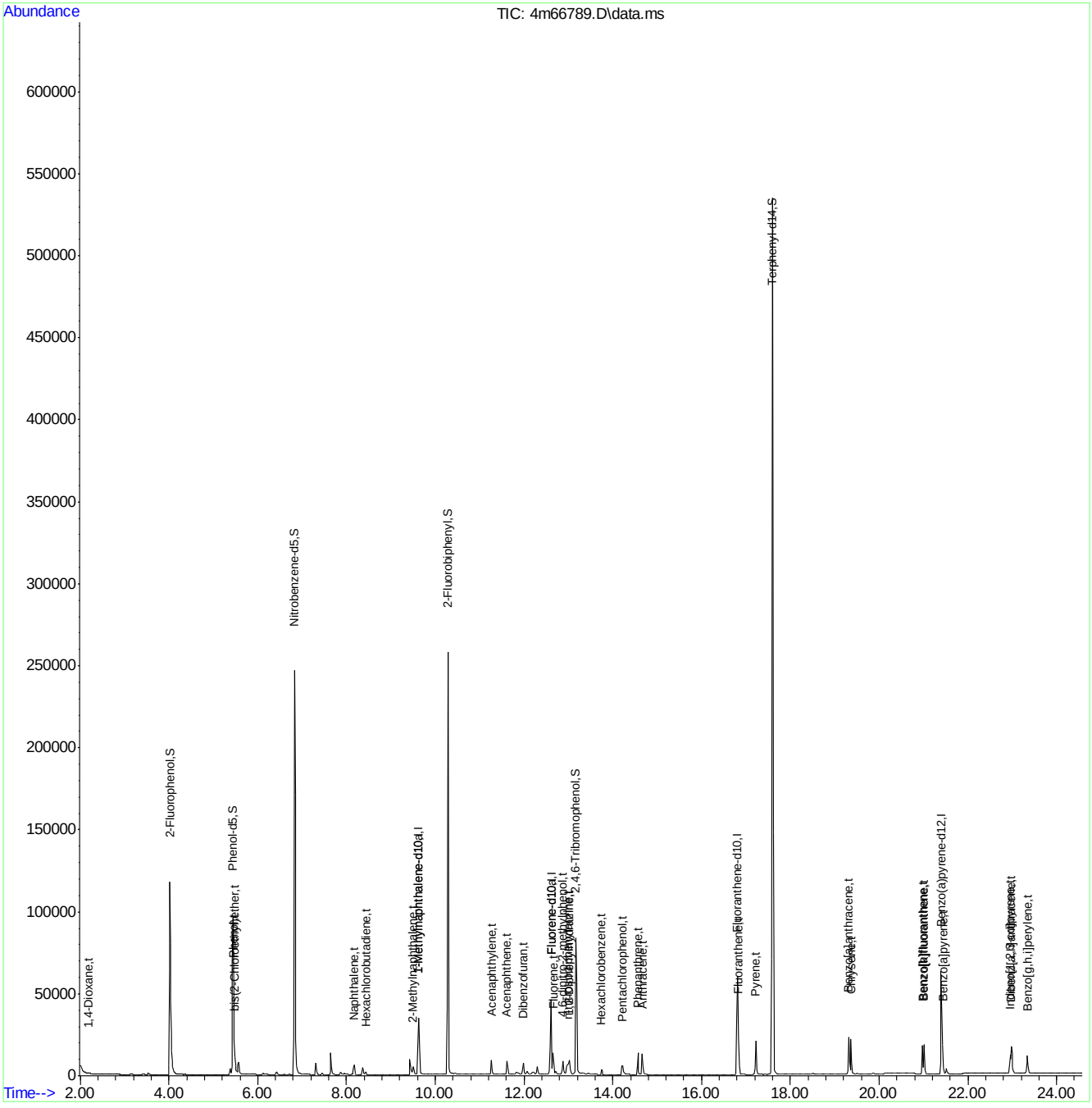
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3004\
Data File : 4m66789.D
Acq On : 11 Jul 2016 3:57 pm
Operator : ashleyd
Sample : op95394a-bs12
Misc : op95394a,e4m3004,1000
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 11 17:29:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 11 15:14:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62904.D
Acq On : 11 Jul 2016 3:56 pm
Operator : ashleyd
Sample : op95434a-bs12
Misc : op95434a,e3m2971,1000
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 11 16:29:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.619	150	395925	4.00	ppm	0.00
14) Fluorene-d10	13.630	176	576911	4.00	ppm	0.00
21) Fluoranthene-d10	17.842	212	854702	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	747491	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.600	112	1911937	30.83	ppm	-0.05
Spiked Amount 50.000			Recovery = 61.66%			
4) Phenol-d5	6.200	99	2004588	20.42	ppm	0.00
Spiked Amount 50.000			Recovery = 40.84%			
7) Nitrobenzene-d5	7.726	82	3616507	45.03	ppm	-0.05
Spiked Amount 50.000			Recovery = 90.06%			
15) 2-Fluorobiphenyl	11.296	172	8070932	45.70	ppm	-0.02
Spiked Amount 50.000			Recovery = 91.40%			
20) 2,4,6-Tribromophenol	14.177	330	1107116	59.39	ppm	0.03
Spiked Amount 50.000			Recovery = 118.78%			
28) Terphenyl-d14	18.646	244	7429089	57.72	ppm	0.03
Spiked Amount 50.000			Recovery = 115.44%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.329	88	8820	0.36	ppm #	29
5) Phenol	6.212	94	229587	2.12	ppm #	71
6) bis(2-Chloroethyl)ether	6.285	93	68685	0.84	ppm	76
8) Nitrobenzene	7.763	77	89957	1.03	ppm	72
9) Naphthalene	9.138	128	198628	0.85	ppm	92
10) Hexachlorobutadiene	9.439	225	34381	0.97	ppm	79
11) 2-Methylnaphthalene	10.496	141	105855	0.87	ppm #	60
13) Hexachlorocyclopentadiene	10.866	237	18606	0.75	ppm	90
16) Acenaphthylene	12.279	152	203873	0.94	ppm	97
17) Acenaphthene	12.635	153	137640	0.98	ppm	93
18) 4,6-dinitro-2-methylph...	13.856	198	91090	8.71	ppm	88
19) Fluorene	13.687	166	150724	0.95	ppm	94
22) Hexachlorobenzene	14.797	284	47031	1.09	ppm	89
23) Pentachlorophenol	15.230	266	75963	4.56	ppm	88
24) Phenanthrene	15.586	178	219507	1.01	ppm	99
25) Anthracene	15.694	178	198380	0.97	ppm	100
26) Fluoranthene	17.858	202	250349	0.99	ppm	94
27) Pyrene	18.259	202	247376	1.07	ppm	93
29) Benzo[a]anthracene	20.345	228	194226	1.11	ppm	93
30) Chrysene	20.392	228	196787	0.96	ppm	89
32) Benzo[b]fluoranthene	21.999	252	167345	0.71	ppm	95
33) Benzo[k]fluoranthene	22.037	252	168100	0.66	ppm	91
34) Benzo[a]pyrene	22.451	252	155578	0.63	ppm	96
35) Indeno[1,2,3-cd]pyrene	23.955	276	134375	0.65	ppm	99
36) Dibenz[a,h]anthracene	23.993	278	108315	0.66	ppm	96
37) Benzo[g,h,i]perylene	24.350	276	117893	0.62	ppm	98

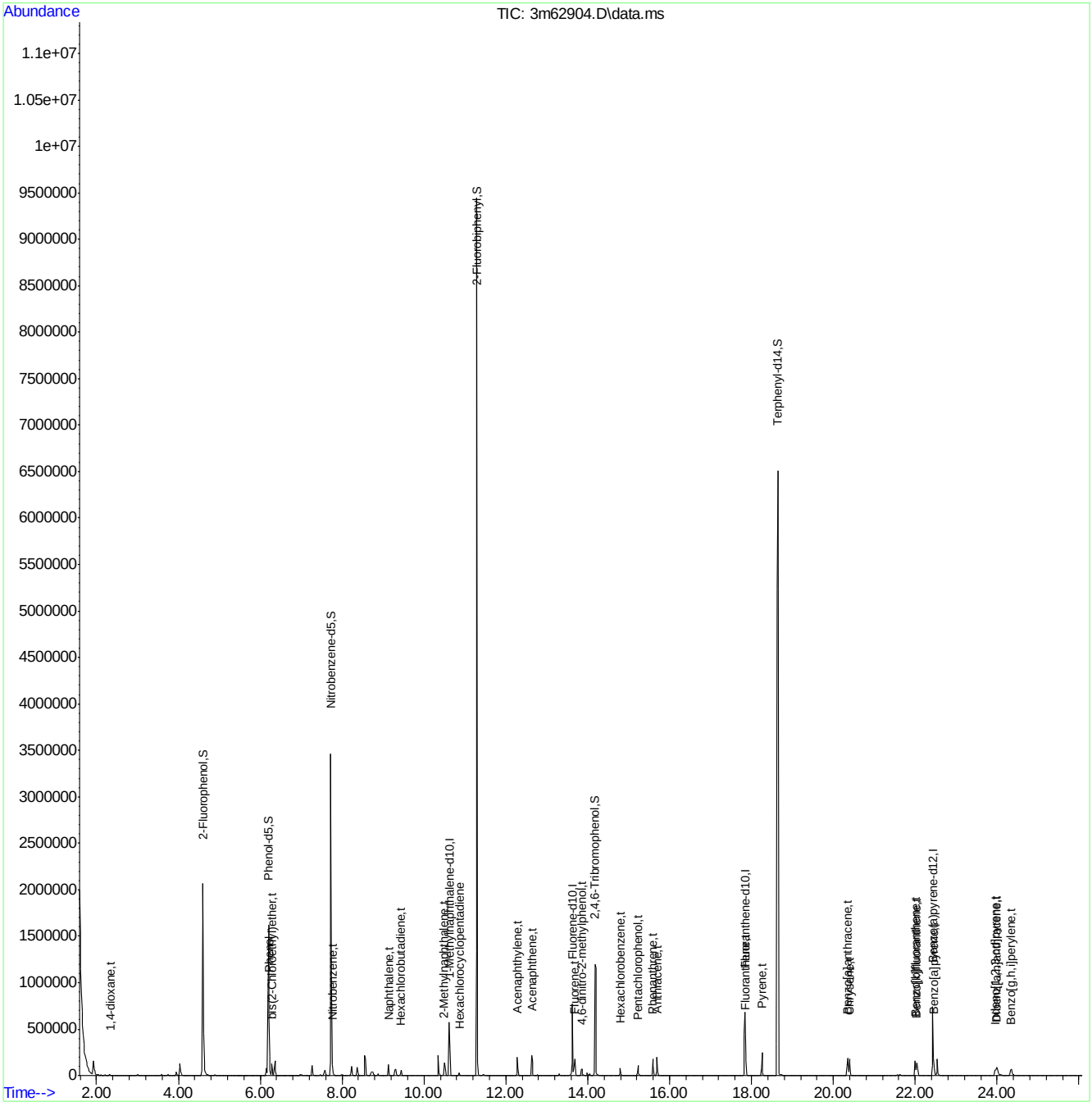
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62904.D
Acq On : 11 Jul 2016 3:56 pm
Operator : ashleyd
Sample : op95434a-bs12
Misc : op95434a,e3m2971,1000
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jul 11 16:29:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66803.D
Acq On : 12 Jul 2016 3:25 pm
Operator : hankc
Sample : op95394a-ms
Misc : op95394a,e4m3006,490
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 13 12:31:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jul 12 08:32:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.595	152	29985	4.00	ppm	#-0.02
12) Fluorene-d10	12.564	176	52324	4.00	ppm	-0.05
22) Fluoranthene-d10	16.770	212	92687	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.355	264	74014	4.00	ppm	-0.04
35) 1-Methylnaphthalene-d10a	9.595	152	29985	4.00	ppm	#-0.02
38) Fluorene-d10a	12.564	176	52324	4.00	ppm	-0.05
System Monitoring Compounds						
2) 2-Fluorophenol	3.985	112	172545	36.11	ppm	-0.03
Spiked Amount 50.000	Range 11 - 58		Recovery = 72.22%#			
3) Phenol-d5	5.401	99	231278	30.70	ppm	-0.03
Spiked Amount 50.000			Recovery = 61.40%			
6) Nitrobenzene-d5	6.798	82	277046	41.34	ppm	-0.03
Spiked Amount 50.000			Recovery = 82.68%			
11) 2-Fluorobiphenyl	10.240	172	535426	44.36	ppm	-0.05
Spiked Amount 50.000			Recovery = 88.72%			
17) 2,4,6-Tribromophenol	13.114	330	112611	46.18	ppm	-0.05
Spiked Amount 50.000			Recovery = 92.36%			
25) Terphenyl-d14	17.561	244	744868	56.91	ppm	-0.04
Spiked Amount 50.000			Recovery = 113.82%			
Target Compounds						Qvalue
4) Phenol	5.428	94	41965	5.15	ppm	94
5) bis(2-Chloroethyl)ether	5.442	93	5699	0.99	ppm	87
7) Naphthalene	8.129	128	1149426	54.93	ppm	98
8) Hexachlorobutadiene	8.392	225	2408	0.67	ppm	96
9) 2-Methylnaphthalene	9.452	142	37842	3.82	ppm #	60
10) Hexachlorocyclopentadiene	9.786	237	495	0.97	ppm	71
13) Acenaphthylene	11.218	152	14071	1.01	ppm	96
14) Acenaphthene	11.564	153	10428	1.21	ppm	95
15) Dibenzofuran	11.941	168	13925	0.99	ppm	100
16) Fluorene	12.612	166	18118	1.17	ppm	96
18) Hexachlorobenzene	13.701	284	5064	0.98	ppm	96
19) Pentachlorophenol	14.171	266	12204	6.41	ppm	84
20) Phenanthrene	14.510	178	28160	1.35	ppm	100
21) Anthracene	14.623	178	21509	1.12	ppm	97
23) Fluoranthene	16.789	202	26836	0.99	ppm	98
24) Pyrene	17.165	202	26463	1.00	ppm	87
26) Benzo[a]anthracene	19.274	228	21079	0.92	ppm	98
27) Chrysene	19.330	228	20666	0.87	ppm	98
29) Benzo[b]fluoranthene	20.928	252	23540	0.92	ppm	96
30) Benzo[k]fluoranthene	20.969	252	16953	0.68	ppm	98
31) Benzo[a]pyrene	21.382	252	18286	0.79	ppm	98
32) Indeno[1,2,3-cd]pyrene	22.897	276	21631	0.80	ppm	96
33) Dibenz[a,h]anthracene	22.924	278	18144	0.81	ppm	97
34) Benzo[g,h,i]perylene	23.268	276	18000	0.76	ppm	98
36) 1,4-Dioxane	2.164	88	935	0.41	ppm #	1
39) 4,6-dinitro-2-methylph...	12.827	198	13363	5.30	ppm	97
40) 1,2-Diphenylhydrazine	12.970	77	16243	1.12	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66803.D
Acq On : 12 Jul 2016 3:25 pm
Operator : hankc
Sample : op95394a-ms
Misc : op95394a,e4m3006,490
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 13 12:31:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jul 12 08:32:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) n-nitrosodiphenylamine	12.946	169	12244	1.19	ppm #	65

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

7.4.1

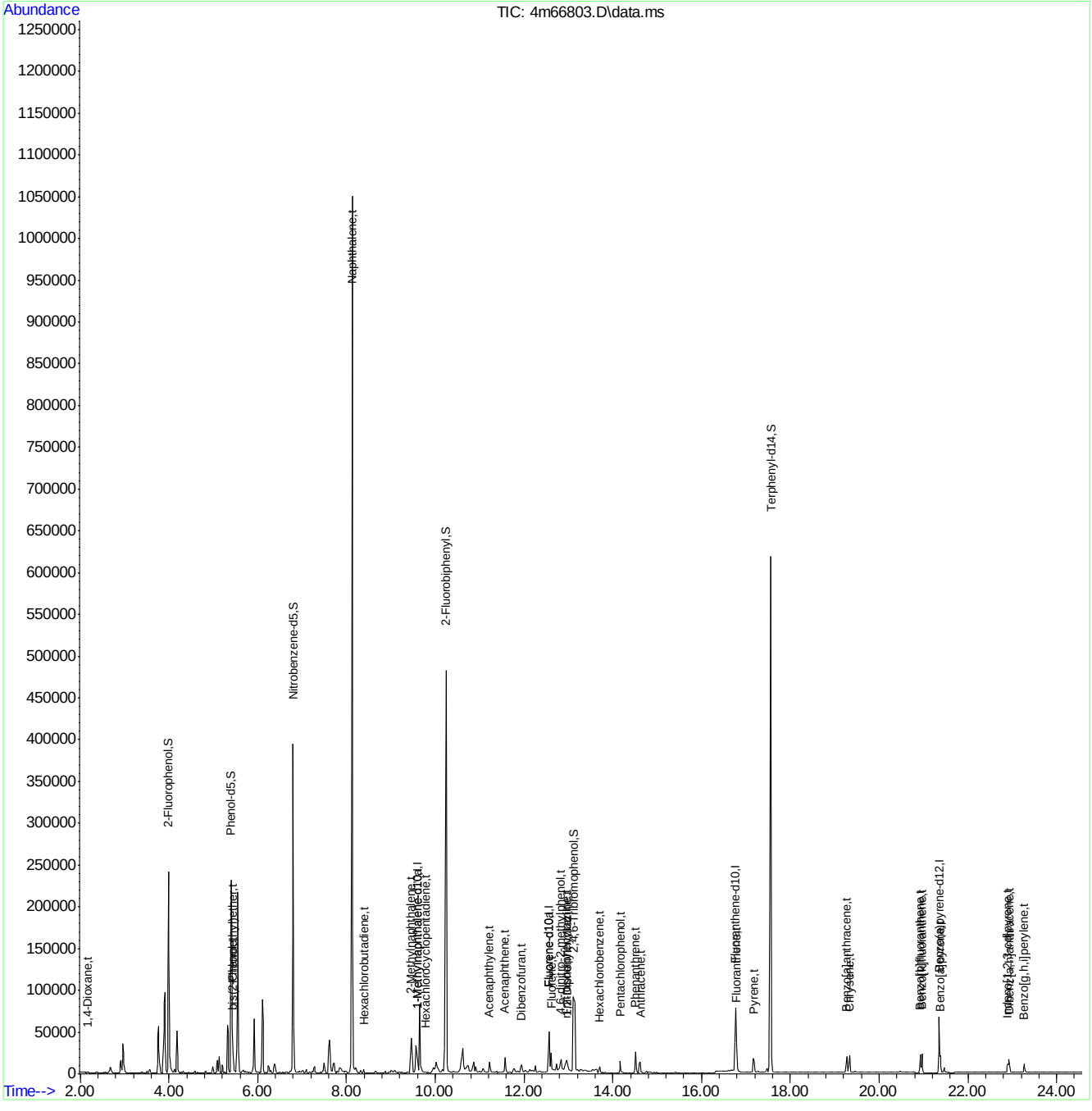
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66803.D
Acq On : 12 Jul 2016 3:25 pm
Operator : hankc
Sample : op95394a-ms
Misc : op95394a,e4m3006,490
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 13 12:31:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jul 12 08:32:05 2016
Response via : Initial Calibration



M4M2974SIM.M Wed Jul 13 12:31:17 2016 MANAGER Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66804.D
Acq On : 12 Jul 2016 8:57 pm
Operator : hankc
Sample : op95394a-msd
Misc : op95394a,e4m3006,490
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 13 12:31:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jul 12 08:32:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.595	152	31472	4.00	ppm		#-0.02
12) Fluorene-d10	12.564	176	54861	4.00	ppm		-0.05
22) Fluoranthene-d10	16.758	212	96072	4.00	ppm		-0.03
28) Benzo(a)pyrene-d12	21.357	264	70460	4.00	ppm		-0.04
35) 1-Methylnaphthalene-d10a	9.595	152	31472	4.00	ppm		#-0.02
38) Fluorene-d10a	12.564	176	54861	4.00	ppm		-0.05
System Monitoring Compounds							
2) 2-Fluorophenol	3.985	112	183947	36.68	ppm		-0.03
Spiked Amount 50.000	Range 11 - 58		Recovery = 73.36%#				
3) Phenol-d5	5.401	99	248064	31.37	ppm		-0.03
Spiked Amount 50.000			Recovery = 62.74%				
6) Nitrobenzene-d5	6.798	82	308409	43.84	ppm		-0.03
Spiked Amount 50.000			Recovery = 87.68%				
11) 2-Fluorobiphenyl	10.240	172	584176	46.12	ppm		-0.05
Spiked Amount 50.000			Recovery = 92.24%				
17) 2,4,6-Tribromophenol	13.114	330	122887	48.06	ppm		-0.05
Spiked Amount 50.000			Recovery = 96.12%				
25) Terphenyl-d14	17.568	244	744458	54.87	ppm		-0.03
Spiked Amount 50.000			Recovery = 109.74%				
Target Compounds							Qvalue
4) Phenol	5.414	94	44277	5.17	ppm		50
5) bis(2-Chloroethyl)ether	5.442	93	6184	1.02	ppm		91
7) Naphthalene	8.129	128	1199121	54.59	ppm		98
8) Hexachlorobutadiene	8.392	225	2249	0.60	ppm		99
9) 2-Methylnaphthalene	9.452	142	39875	3.83	ppm	#	62
10) Hexachlorocyclopentadiene	9.786	237	377	0.82	ppm		78
13) Acenaphthylene	11.218	152	14356	0.99	ppm		95
14) Acenaphthene	11.564	153	10739	1.19	ppm		92
15) Dibenzofuran	11.941	168	14435	0.98	ppm		100
16) Fluorene	12.612	166	17695	1.09	ppm		96
18) Hexachlorobenzene	13.689	284	4716	0.87	ppm		85
19) Pentachlorophenol	14.160	266	11964	5.99	ppm		99
20) Phenanthrene	14.518	178	29231	1.33	ppm		95
21) Anthracene	14.612	178	23685	1.17	ppm		93
23) Fluoranthene	16.796	202	25570	0.91	ppm		93
24) Pyrene	17.172	202	29510	1.08	ppm		94
26) Benzo[a]anthracene	19.262	228	22898	0.96	ppm	#	87
27) Chrysene	19.319	228	20905	0.85	ppm		87
29) Benzo[b]fluoranthene	20.930	252	20436	0.84	ppm		96
30) Benzo[k]fluoranthene	20.971	252	20604	0.87	ppm		98
31) Benzo[a]pyrene	21.384	252	18539	0.84	ppm		97
32) Indeno[1,2,3-cd]pyrene	22.899	276	21896	0.85	ppm		99
33) Dibenz[a,h]anthracene	22.926	278	17787	0.83	ppm	#	68
34) Benzo[g,h,i]perylene	23.271	276	18399	0.82	ppm		98
36) 1,4-Dioxane	2.153	88	864	0.35	ppm	#	1
39) 4,6-dinitro-2-methylph...	12.827	198	12976	4.93	ppm		97
40) 1,2-Diphenylhydrazine	12.970	77	16693	1.10	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66804.D
Acq On : 12 Jul 2016 8:57 pm
Operator : hankc
Sample : op95394a-msd
Misc : op95394a,e4m3006,490
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 13 12:31:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jul 12 08:32:05 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) n-nitrosodiphenylamine	12.946	169	12563	1.17	ppm #	66

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

7.4.2

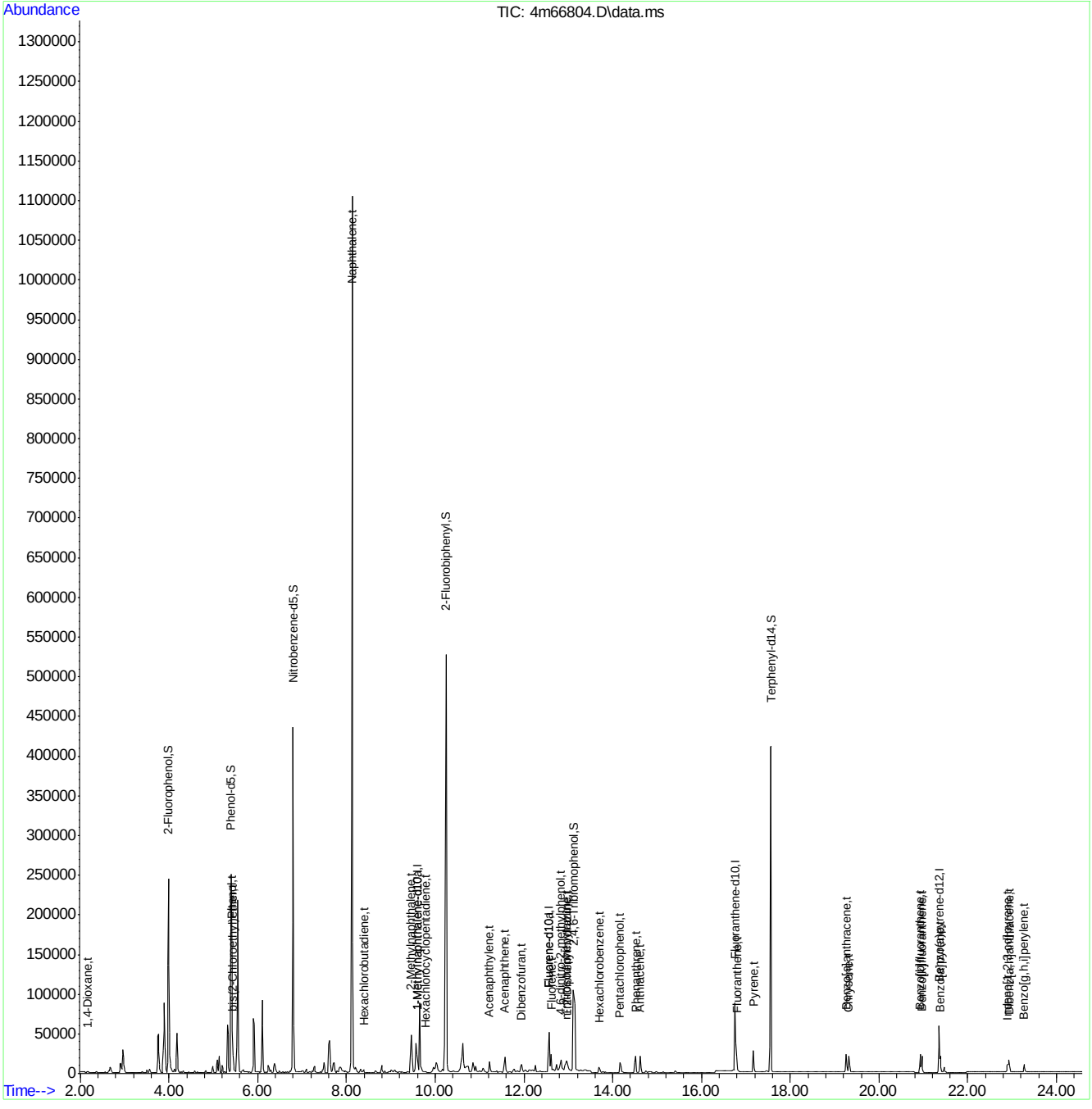
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66804.D
Acq On : 12 Jul 2016 8:57 pm
Operator : hankc
Sample : op95394a-msd
Misc : op95394a,e4m3006,490
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 13 12:31:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jul 12 08:32:05 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62905.D
Acq On : 11 Jul 2016 4:28 pm
Operator : ashleyd
Sample : op95434a-ms
Misc : op95434a,e3m2971,910
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 12 14:43:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.620	150	383660	4.00	ppm		0.00
14) Fluorene-d10	13.631	176	561776	4.00	ppm		0.00
21) Fluoranthene-d10	17.842	212	844205	4.00	ppm		0.00
31) Benzo(a)pyrene-d12	22.432	264	732043	4.00	ppm		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	4.600	112	1767298	29.41	ppm		-0.05
Spiked Amount 50.000			Recovery = 58.82%				
4) Phenol-d5	6.200	99	1831233	19.25	ppm		0.00
Spiked Amount 50.000			Recovery = 38.50%				
7) Nitrobenzene-d5	7.726	82	3293562	42.32	ppm		-0.05
Spiked Amount 50.000			Recovery = 84.64%				
15) 2-Fluorobiphenyl	11.296	172	7593462	44.15	ppm		-0.02
Spiked Amount 50.000			Recovery = 88.30%				
20) 2,4,6-Tribromophenol	14.177	330	1054731	58.10	ppm		0.03
Spiked Amount 50.000			Recovery = 116.20%				
28) Terphenyl-d14	18.646	244	6456006	50.78	ppm		0.03
Spiked Amount 50.000			Recovery = 101.56%				
Target Compounds							Qvalue
2) 1,4-dioxane	2.313	88	2498589	105.26	ppm		99
5) Phenol	6.212	94	225082	2.15	ppm	#	71
6) bis(2-Chloroethyl)ether	6.285	93	62440	0.79	ppm		74
8) Nitrobenzene	7.764	77	81524	0.96	ppm		72
9) Naphthalene	9.138	128	181636	0.80	ppm		93
10) Hexachlorobutadiene	9.439	225	32246	0.94	ppm		79
11) 2-Methylnaphthalene	10.497	141	95700	0.81	ppm	#	60
13) Hexachlorocyclopentadiene	10.866	237	19358	0.81	ppm		89
16) Acenaphthylene	12.279	152	185761	0.88	ppm		97
17) Acenaphthene	12.635	153	125437	0.92	ppm		94
18) 4,6-dinitro-2-methylph...	13.857	198	105162	9.87	ppm		90
19) Fluorene	13.687	166	138434	0.90	ppm		93
22) Hexachlorobenzene	14.797	284	45556	1.06	ppm		88
23) Pentachlorophenol	15.230	266	91351	5.44	ppm		89
24) Phenanthrene	15.586	178	207959	0.97	ppm		100
25) Anthracene	15.694	178	187900	0.93	ppm		99
26) Fluoranthene	17.858	202	238036	0.95	ppm		93
27) Pyrene	18.259	202	237598	1.04	ppm		94
29) Benzo[a]anthracene	20.345	228	186192	1.08	ppm		94
30) Chrysene	20.392	228	186799	0.92	ppm		90
32) Benzo[b]fluoranthene	21.999	252	152113	0.66	ppm		93
33) Benzo[k]fluoranthene	22.037	252	152114	0.61	ppm		90
34) Benzo[a]pyrene	22.451	252	140115	0.58	ppm		96
35) Indeno[1,2,3-cd]pyrene	23.974	276	107658	0.53	ppm		91
36) Dibenz[a,h]anthracene	23.993	278	85220	0.53	ppm		95
37) Benzo[g,h,i]perylene	24.351	276	90967	0.49	ppm		99

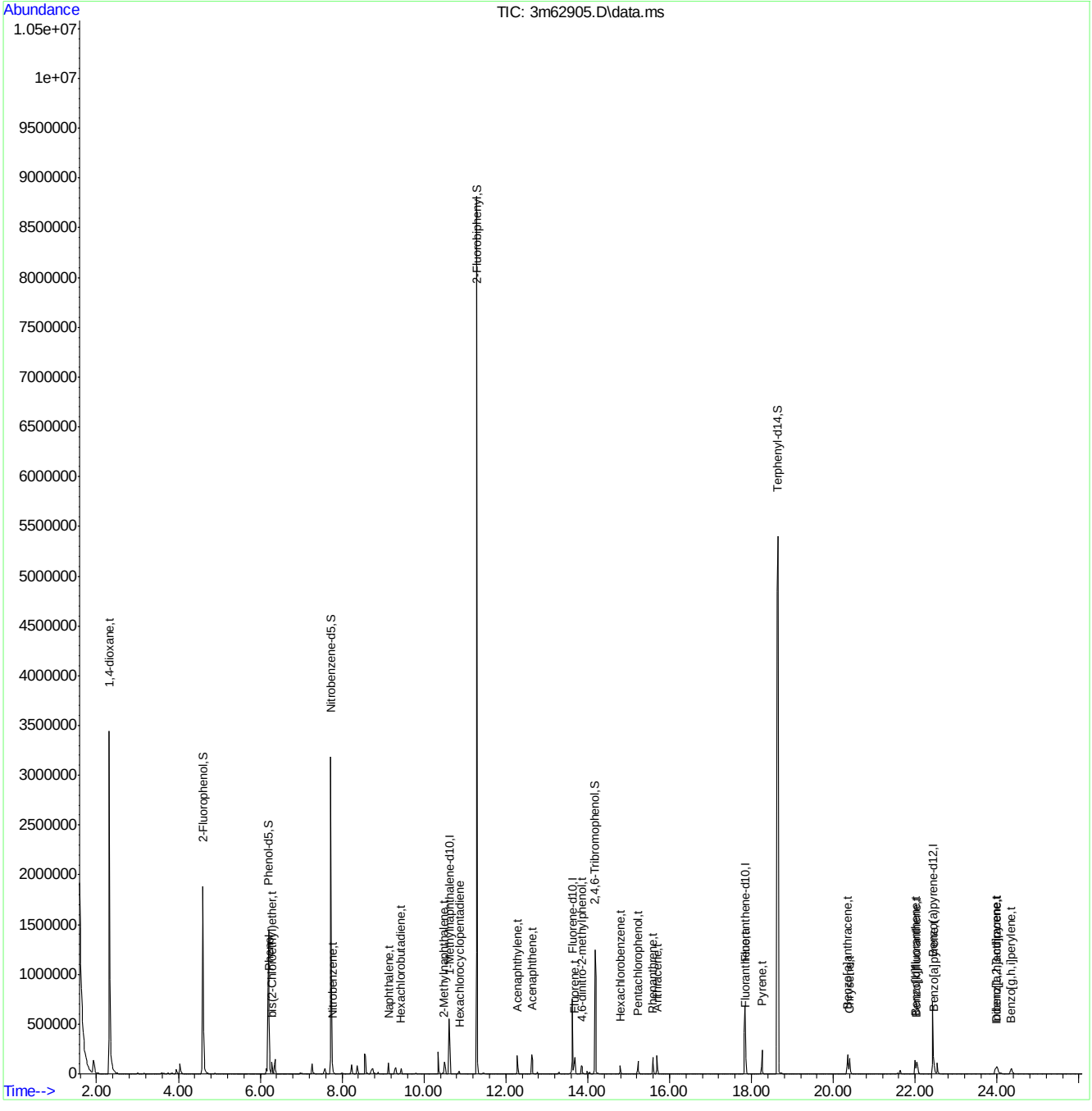
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62905.D
Acq On : 11 Jul 2016 4:28 pm
Operator : ashleyd
Sample : op95434a-ms
Misc : op95434a,e3m2971,910
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 12 14:43:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration



M3M2942SIM.M Tue Jul 12 14:43:55 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62906.D
Acq On : 11 Jul 2016 5:01 pm
Operator : ashleyd
Sample : op95434a-msd
Misc : op95434a,e3m2971,920
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 12 14:44:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.620	150	401093	4.00	ppm	0.00
14) Fluorene-d10	13.631	176	583163	4.00	ppm	0.00
21) Fluoranthene-d10	17.842	212	886722	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	772922	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.600	112	1547335	24.63	ppm	-0.05
Spiked Amount 50.000			Recovery = 49.26%			
4) Phenol-d5	6.200	99	1727378	17.37	ppm	0.00
Spiked Amount 50.000			Recovery = 34.74%			
7) Nitrobenzene-d5	7.726	82	3133219	38.51	ppm	-0.05
Spiked Amount 50.000			Recovery = 77.02%			
15) 2-Fluorobiphenyl	11.296	172	7250503	40.61	ppm	-0.02
Spiked Amount 50.000			Recovery = 81.22%			
20) 2,4,6-Tribromophenol	14.177	330	1071549	56.86	ppm	0.03
Spiked Amount 50.000			Recovery = 113.72%			
28) Terphenyl-d14	18.646	244	6794873	50.89	ppm	0.03
Spiked Amount 50.000			Recovery = 101.78%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.313	88	2133131	85.96	ppm #	46
5) Phenol	6.212	94	197152	1.80	ppm #	77
6) bis(2-Chloroethyl)ether	6.285	93	54705	0.66	ppm	72
8) Nitrobenzene	7.764	77	75258	0.85	ppm	74
9) Naphthalene	9.138	128	164808	0.69	ppm	93
10) Hexachlorobutadiene	9.439	225	28899	0.81	ppm	79
11) 2-Methylnaphthalene	10.497	141	90120	0.73	ppm #	59
13) Hexachlorocyclopentadiene	10.866	237	17788	0.71	ppm	89
16) Acenaphthylene	12.279	152	173684	0.80	ppm	96
17) Acenaphthene	12.635	153	118744	0.84	ppm	94
18) 4,6-dinitro-2-methylph...	13.857	198	101058	9.33	ppm	87
19) Fluorene	13.687	166	133945	0.84	ppm	93
22) Hexachlorobenzene	14.797	284	44672	0.99	ppm	88
23) Pentachlorophenol	15.230	266	88645	5.07	ppm	90
24) Phenanthrene	15.586	178	206256	0.91	ppm	100
25) Anthracene	15.694	178	188067	0.89	ppm	99
26) Fluoranthene	17.858	202	246714	0.94	ppm	92
27) Pyrene	18.259	202	247159	1.03	ppm	94
29) Benzo[a]anthracene	20.345	228	208912	1.15	ppm	94
30) Chrysene	20.392	228	206124	0.97	ppm	88
32) Benzo[b]fluoranthene	21.999	252	177802	0.73	ppm	92
33) Benzo[k]fluoranthene	22.037	252	182451	0.70	ppm	88
34) Benzo[a]pyrene	22.451	252	168845	0.66	ppm	95
35) Indeno[1,2,3-cd]pyrene	23.974	276	132489	0.62	ppm	91
36) Dibenz[a,h]anthracene	23.993	278	105010	0.62	ppm	94
37) Benzo[g,h,i]perylene	24.351	276	113348	0.58	ppm	99

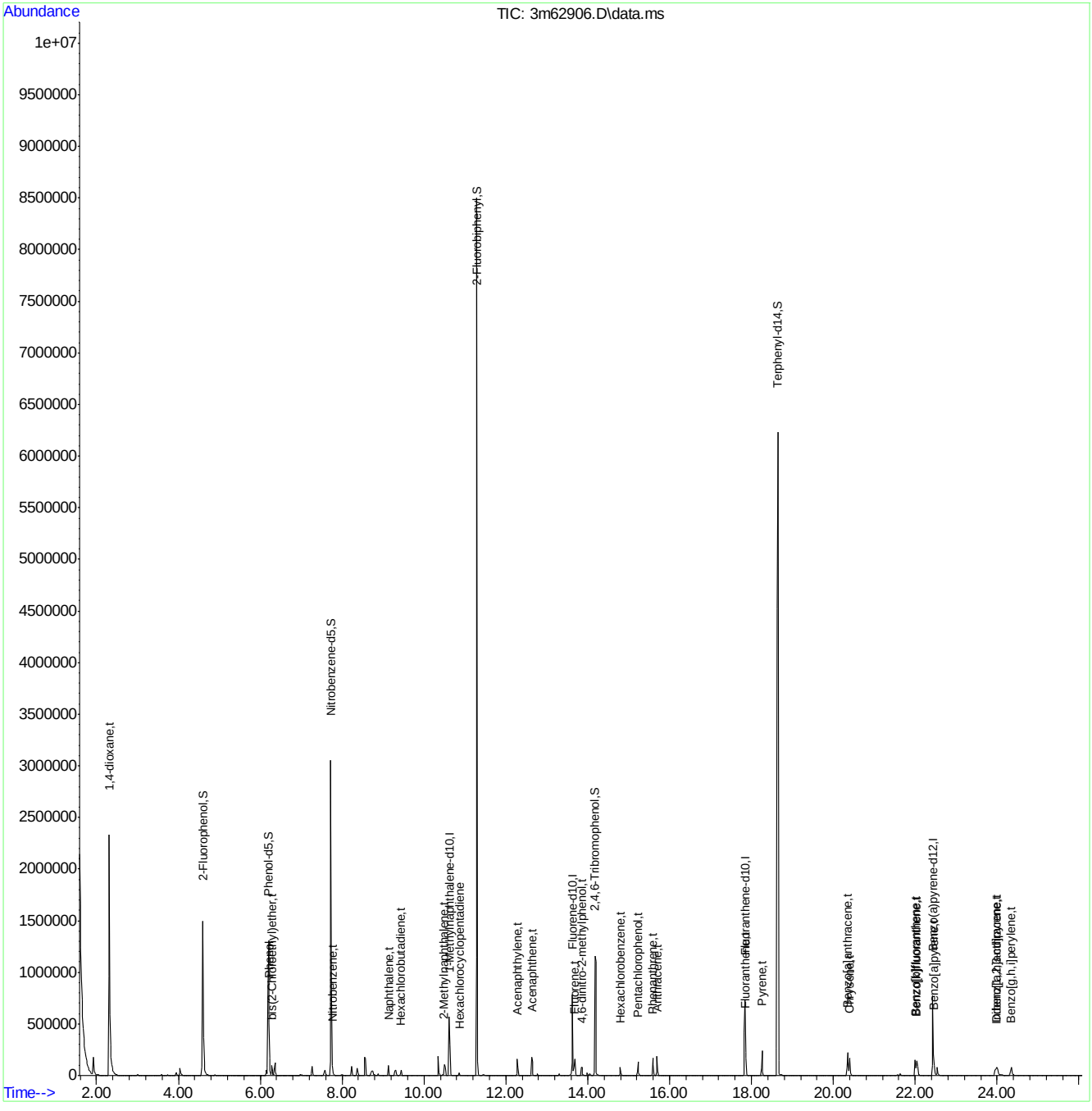
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62906.D
Acq On : 11 Jul 2016 5:01 pm
Operator : ashleyd
Sample : op95434a-msd
Misc : op95434a,e3m2971,920
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 12 14:44:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

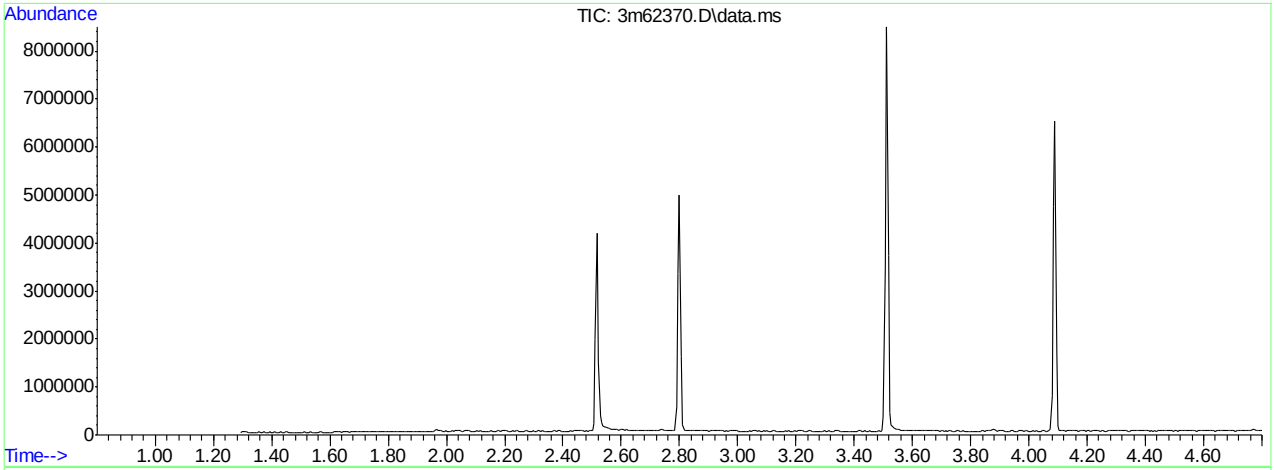


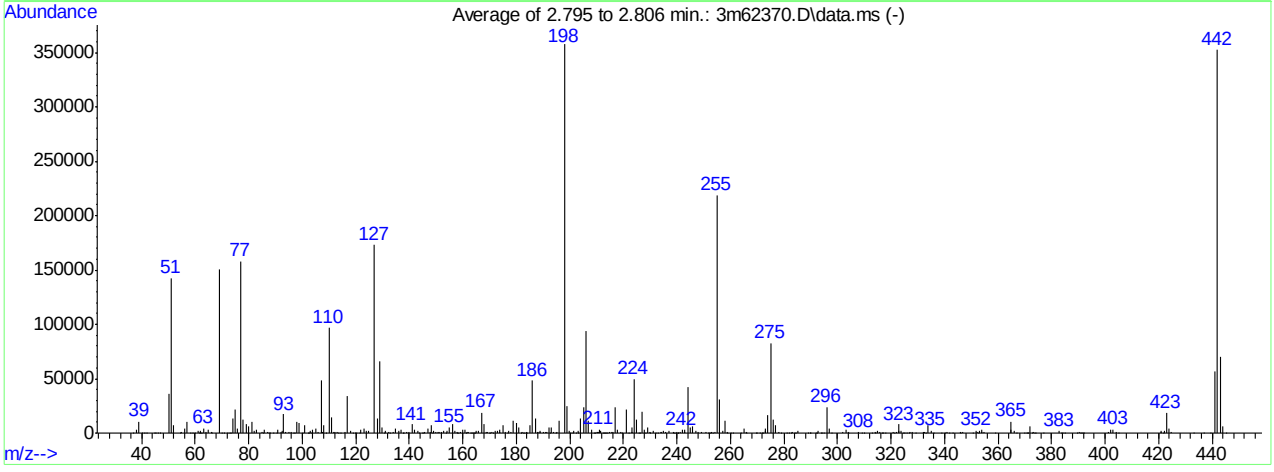
SGS ACCUTEST JC23654

DFTPP

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

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





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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
341.00	1084	353.80	798	371.20	212	389.65	320
341.85	394	353.95	2689	371.95	5975	390.15	684
342.90	93	354.90	1057	372.80	328	390.70	314
345.80	212	358.80	84	373.05	1402	391.15	438
346.00	1441	364.80	2816	373.50	151	391.75	391
346.90	696	365.00	10751	374.10	201	392.10	177
350.75	364	365.90	1840	376.80	157	401.05	704
351.90	2565	366.90	257	382.95	2052	402.00	2958
352.10	851	369.85	248	383.80	448	403.05	3479
352.50	89	370.80	176	384.15	260	404.00	993
352.95	2361	371.00	447	384.95	183	405.00	151

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

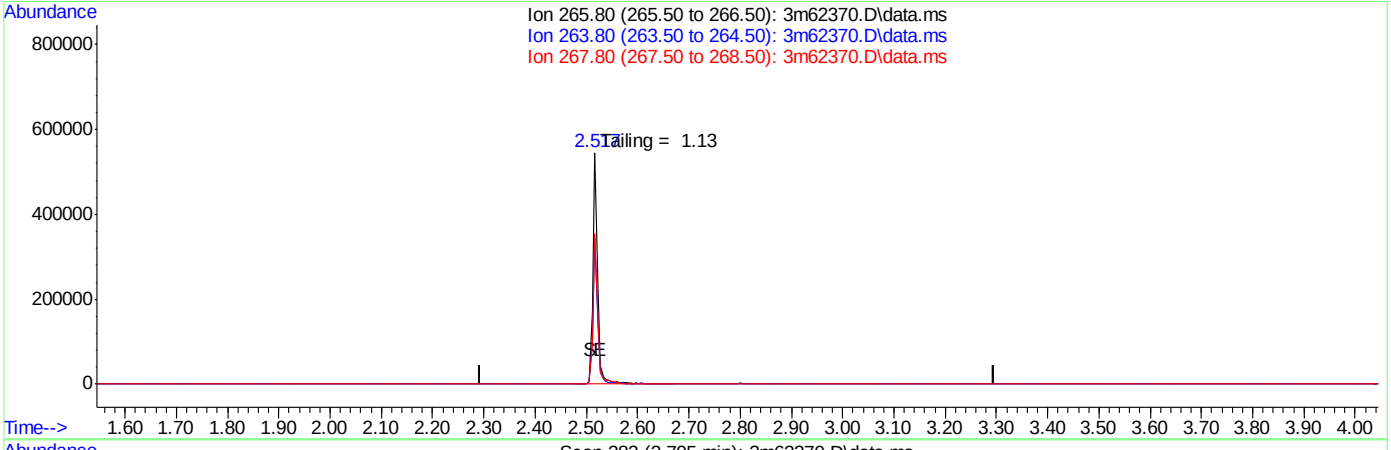
dftpp
Modified:subtracted

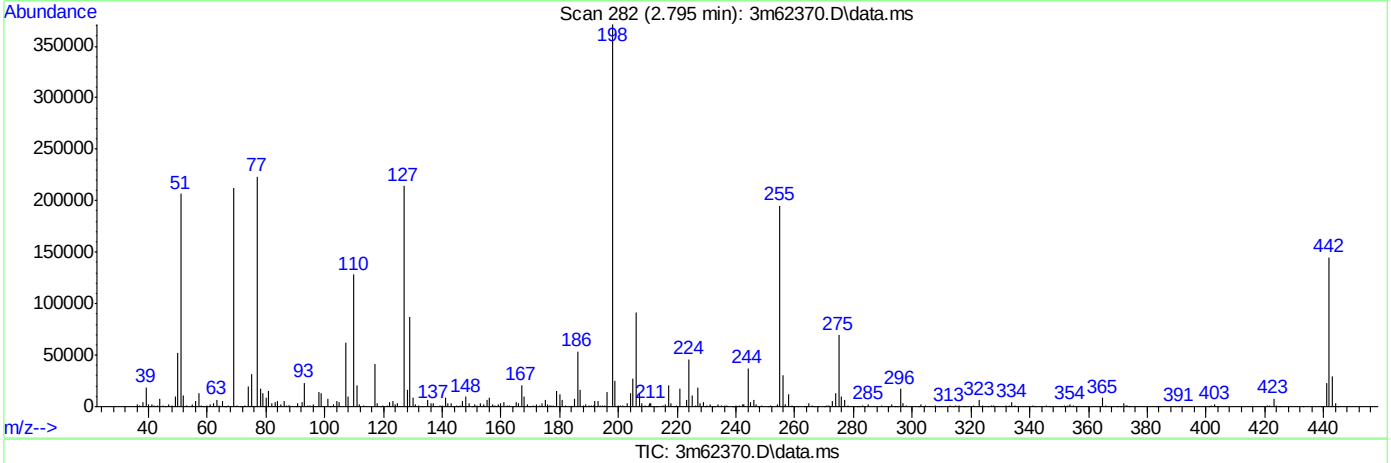
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
420.85	1860	442.00	352192				
421.10	944	443.00	69907				
421.80	317	444.05	6076				
422.05	2008	445.05	531				
423.00	18110						
424.05	3856						
424.90	624						
433.10	106						
436.90	81						
439.20	110						
441.00	56707						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62370.D
Acq On : 20 Jun 2016 6:23 pm
Operator : ashleyd
Sample : dftpp
Misc : op94419a,e3m2942
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 11:56:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62370.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

response 0

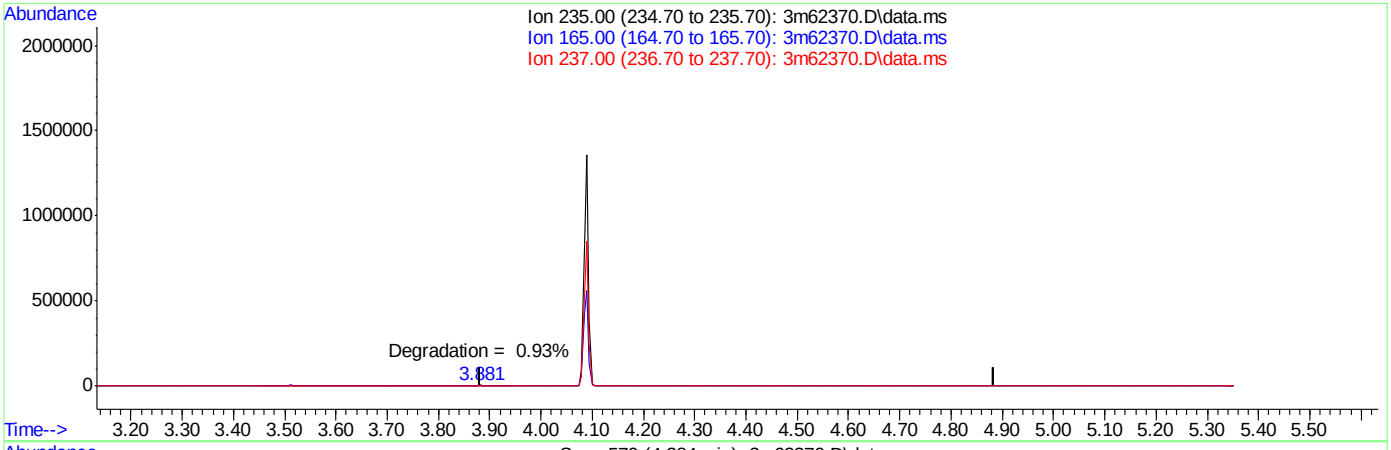
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

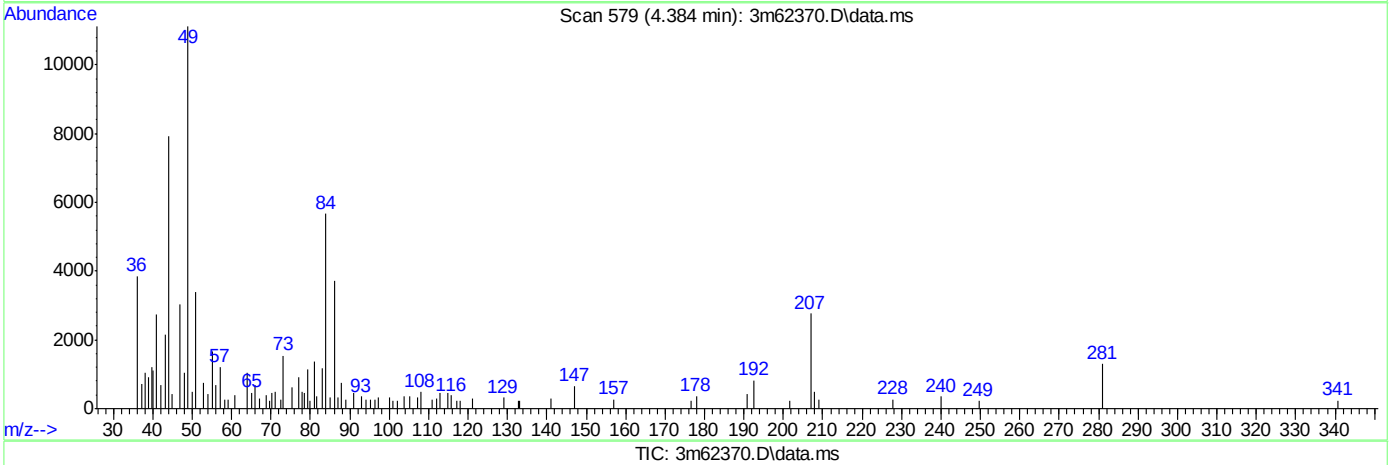
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62370.D
Acq On : 20 Jun 2016 6:23 pm
Operator : ashleyd
Sample : dftpp
Misc : op94419a,e3m2942
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 11:56:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62370.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

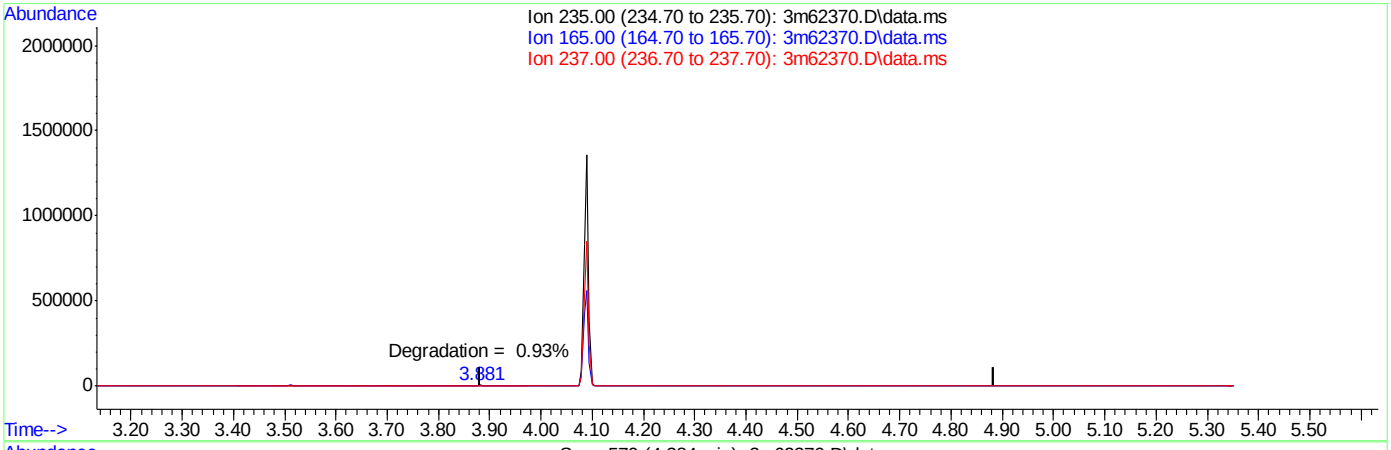
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

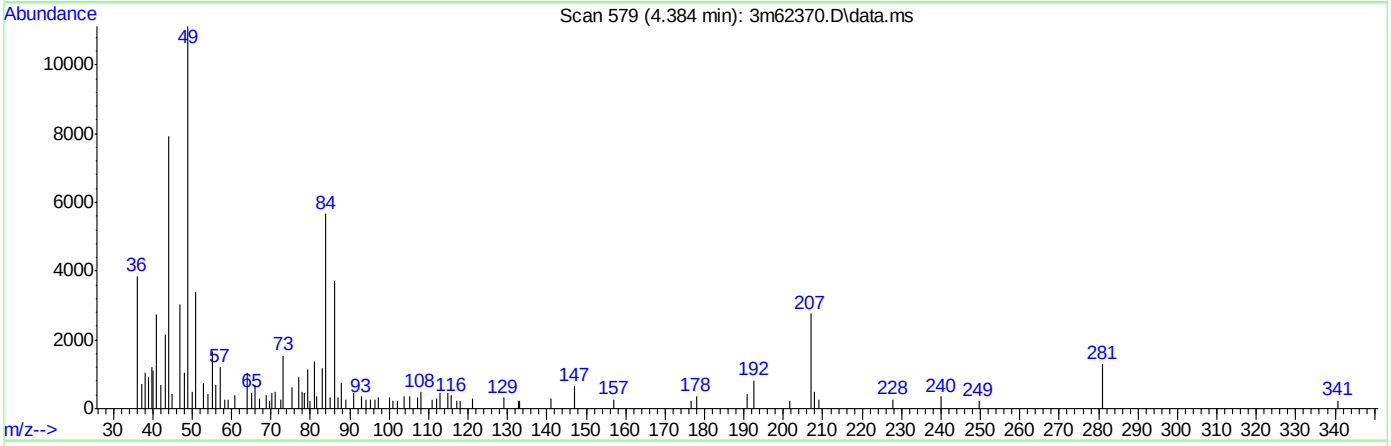
DFTPP3M.M Tue Jun 21 11:56:41 2016 RPT1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62370.D
Acq On : 20 Jun 2016 6:23 pm
Operator : ashleyd
Sample : dftpp
Misc : op94419a,e3m2942
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 11:56:18 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62370.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

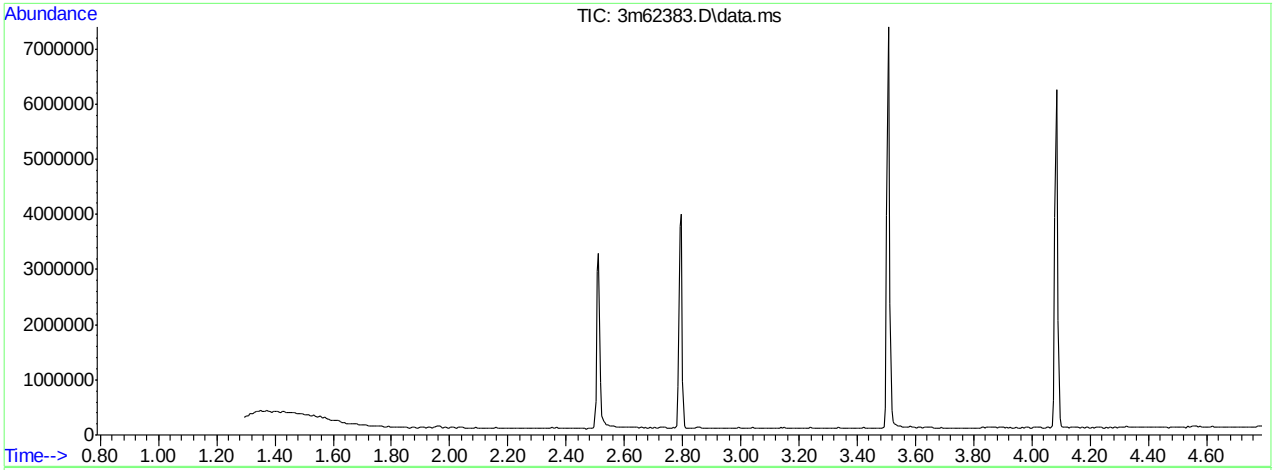
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

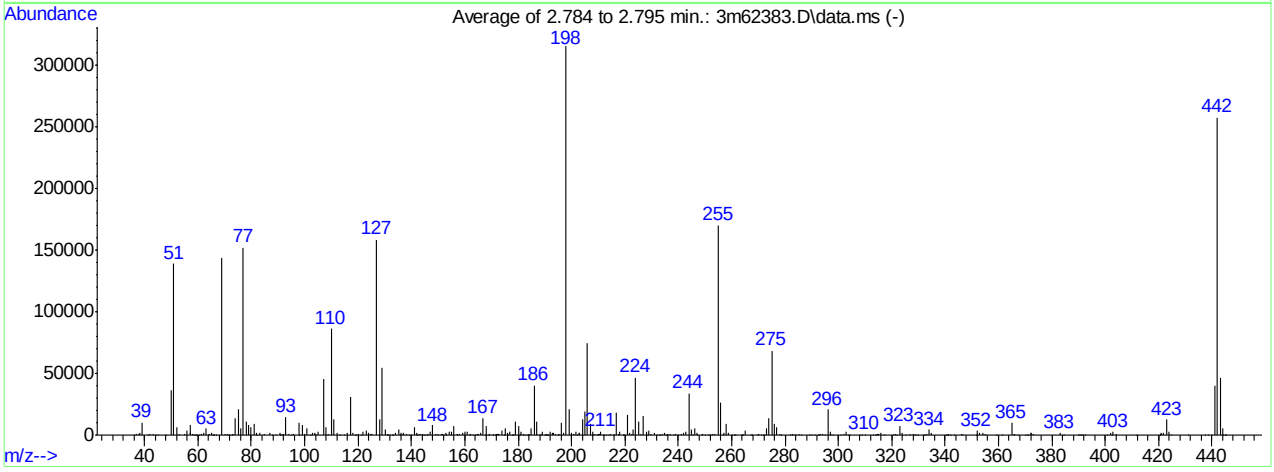
SGS ACCUTEST JC23654

DFTPP

Data File : C:\msdchem\1\DATA\E3M2943\3m62383.D Vial: 1
Acq On : 21 Jun 2016 9:06 am Operator: linseyk
Sample : dftpp Inst : MS3M
Misc : op94419a,e3m2943 Multiplr: 1.00
MS Integration Params: RTEINT.P

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





AutoFind: Scans 280, 281, 282; Background Corrected with Scan 276

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.1	139176	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.7	143977	PASS
70	69	0.00	2	0.6	932	PASS
127	198	40	60	50.3	158565	PASS
197	198	0.00	1	0.6	1950	PASS
198	198	100	100	100.0	315368	PASS
199	198	5	9	6.7	21167	PASS
275	198	10	30	21.7	68458	PASS
365	198	1	100	3.2	9982	PASS
441	443	0.10	100	86.4	40278	PASS
442	198	40	100	81.7	257583	PASS
443	442	17	23	18.1	46645	PASS

3m62383.D DFTPP3M.M Tue Jun 21 12:00:52 2016 RPT1

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	158	50.00	36845	59.00	259	66.10	102
36.80	620	50.95	139176	59.80	160	66.85	100
37.80	732	52.10	6334	60.60	317	68.95	143977
38.05	1836	53.05	661	61.10	1218	70.05	932
39.00	10430	55.00	680	61.95	2060	71.00	770
41.00	224	55.90	3417	63.05	5144	71.40	152
41.95	971	56.90	1778	63.70	91	71.85	470
43.20	1060	57.05	8471	64.05	515	72.80	289
44.00	349	57.90	726	65.10	2154	72.95	983
44.90	163	58.40	198	65.70	111	74.00	13648
47.90	453	58.70	100	65.90	94	75.05	20664

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.10	5702	87.90	97	97.70	426	107.95	6504
77.05	152235	88.90	463	98.00	9895	108.90	599
78.10	10624	90.70	427	98.95	7962	110.00	86011
79.05	8180	90.90	1887	100.05	948	110.95	13153
80.00	6858	91.30	345	100.90	5310	112.00	1441
80.90	9553	91.85	1129	101.90	462	112.85	272
81.80	243	92.10	1225	102.95	2134	114.80	283
82.10	1948	93.00	14841	103.80	1735	115.90	1446
83.00	2239	94.00	1294	104.00	876	117.00	31419
85.00	1107	95.00	446	104.90	3013	117.95	1864
86.95	1944	95.95	697	107.00	45741	118.95	260

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.30	157	130.00	4265	136.95	1850	145.00	326
120.10	1022	130.90	146	138.10	808	145.70	79
120.80	488	131.10	521	138.90	190	146.05	1308
122.00	2800	132.05	373	139.90	352	147.00	3094
123.05	3643	132.80	96	141.05	6687	148.00	8177
123.85	1976	133.30	404	141.80	224	149.05	1334
124.95	1145	133.95	1777	142.05	2273	150.00	570
125.20	748	135.05	4351	142.80	779	151.05	1104
127.00	158565	135.70	293	143.10	824	151.65	1063
128.00	12696	136.00	1705	144.05	722	152.10	286
128.95	54803	136.80	362	144.70	223	152.70	224

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.90	2013	161.95	938	170.40	225	176.15	2028
154.00	2323	162.80	307	170.60	342	176.95	2697
155.00	3003	163.90	182	171.30	323	177.70	287
156.00	7610	164.80	993	171.80	594	178.10	81
157.00	410	165.00	1177	172.10	719	179.00	11220
157.20	623	165.80	2288	172.60	614	180.00	7048
157.95	917	166.95	14095	172.80	505	180.80	479
159.10	1545	167.70	458	173.95	3411	181.00	2937
159.90	2680	168.10	6898	174.80	415	181.90	503
161.05	2909	168.90	194	175.00	5857	182.30	300
161.80	332	169.15	1191	176.00	74	183.15	311

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
183.90	270	190.60	87	197.95	315368	207.00	8927
184.10	601	190.85	938	199.00	21167	207.80	178
185.00	5439	191.20	454	199.95	1858	207.95	2519
186.00	40353	191.95	2908	200.75	507	208.90	857

186.90	1043	192.90	2125	201.50	2813	209.55	281
187.05	10716	193.10	1882	202.10	207	209.90	632
188.05	1251	193.90	850	202.80	1526	210.30	839
188.80	321	194.90	483	203.00	1508	211.05	2831
189.05	2343	195.20	677	204.05	12403	211.80	451
189.80	79	196.15	9631	205.00	18716	212.00	426
190.20	244	196.80	1950	206.00	74707	213.00	307

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
214.00	124	223.00	4807	232.90	401	241.00	1124
214.85	753	224.00	46842	233.20	113	242.15	1759
215.90	1229	225.00	11356	233.95	1366	243.00	2927
216.95	18685	226.10	900	234.90	1489	244.05	33998
217.80	792	227.00	15932	235.20	94	244.95	4470
218.05	2461	227.95	2529	235.60	309	245.30	274
219.10	368	228.60	173	236.15	637	246.05	5386
219.80	127	228.95	3943	237.05	1258	246.85	1529
221.00	16059	229.90	714	238.05	214	247.10	405
221.90	1656	231.05	1475	239.05	667	248.60	317
222.80	553	231.90	304	240.00	457	249.00	1107

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
250.10	354	258.95	1855	270.10	631	282.00	212
251.10	423	259.90	297	271.15	401	282.50	103
251.70	140	260.90	265	271.60	400	282.90	711
252.00	341	261.20	219	272.00	410	283.70	85
252.95	656	263.60	338	272.90	5346	284.15	298
253.90	792	263.85	1	274.05	13469	285.05	943
255.00	170349	264.20	432	275.00	68458	286.00	326
256.00	26099	265.05	3502	276.05	9161	289.00	211
256.80	220	267.20	116	276.95	6165	289.75	188
257.10	1778	267.70	274	277.95	1099	291.30	79
258.00	8832	269.60	97	278.70	94	292.20	73

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
292.80	107	303.80	155	317.00	175	329.80	156
293.15	1237	304.00	322	320.60	232	331.80	311
293.95	585	308.05	292	321.15	848	332.10	184
294.95	383	308.90	214	321.80	122	333.10	650
295.95	20889	310.00	436	323.05	7420	334.05	4444
296.80	105	313.00	255	324.05	1502	335.00	1439
297.00	3009	313.90	334	325.10	164	340.10	111
297.90	220	314.20	247	326.85	1102	340.60	202
300.80	132	314.70	1068	327.95	496	340.90	260
302.00	684	315.00	924	328.30	165	341.15	384
303.00	2375	316.00	1435	329.10	109	341.80	174

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
343.10	76	365.80	934	389.75	437	411.50	75
346.00	1359	366.10	318	390.20	157	420.50	82
346.75	335	367.10	103	390.50	142	420.80	712
351.80	120	370.20	95	391.05	336	421.00	1655
352.00	3238	370.80	99	391.50	90	421.95	1459
353.00	1894	371.10	443	392.15	467	423.05	12517
353.95	2127	372.00	1733	400.80	410	424.05	2598
355.15	595	372.20	2160	402.10	1541	424.85	424
359.10	163	372.95	1034	402.60	164	430.80	171
361.20	130	383.00	1589	402.95	2543	437.20	175
364.90	9982	384.20	237	404.05	847	438.70	123

Average of 2.784 to 2.795 min.: 3m62383.D\data.ms

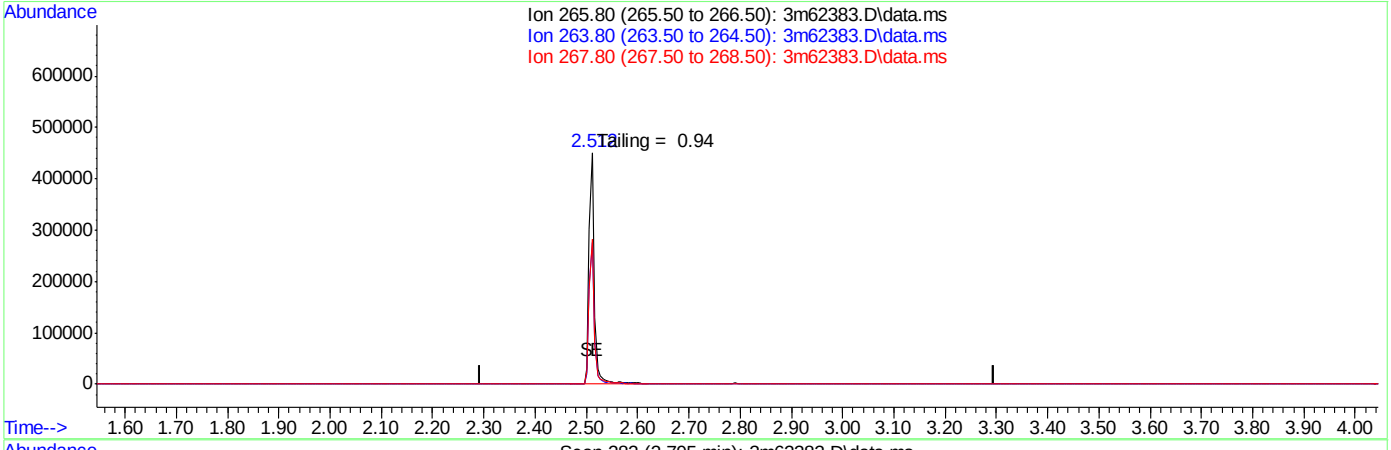
dftpp
Modified:subtracted

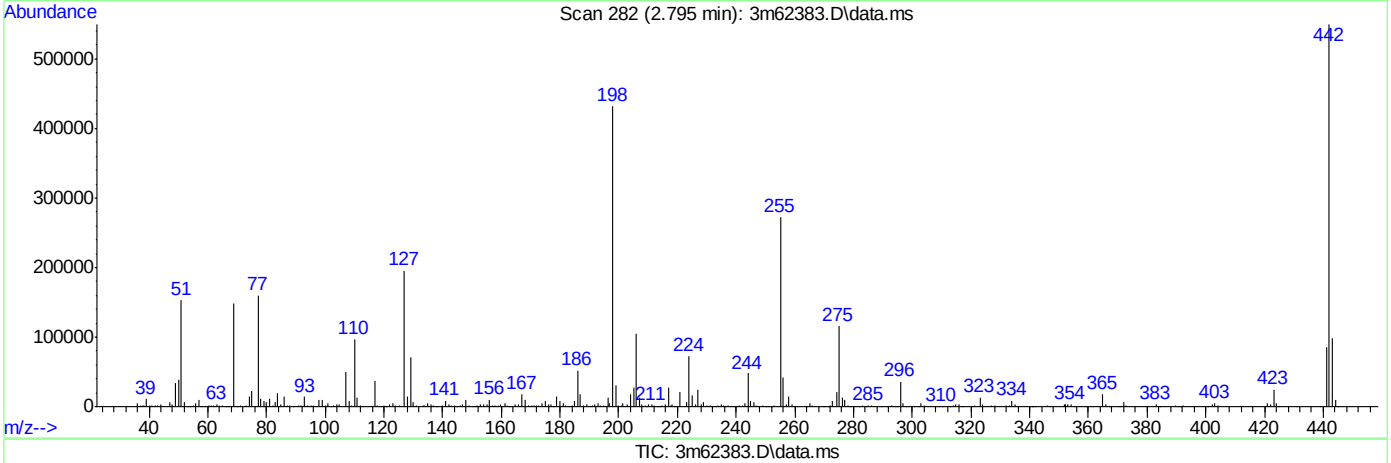
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
440.00	182						
441.00	40278						
442.00	257583						
443.00	46645						
443.90	101						
444.10	5040						
444.80	123						
445.10	286						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62383.D
Acq On : 21 Jun 2016 9:06 am
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 09:10:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62383.D\data.ms

(1) Pentachlorophenol (t)

2.795min 0.00ppb d

response 0

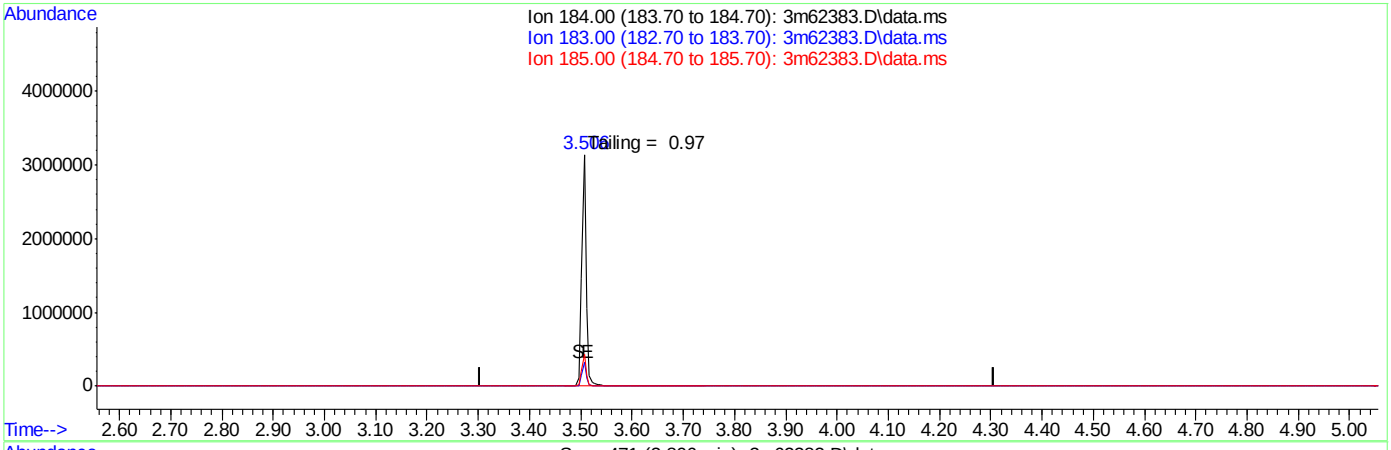
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00
267.80	64.10	0.00
0.00	0.00	0.00

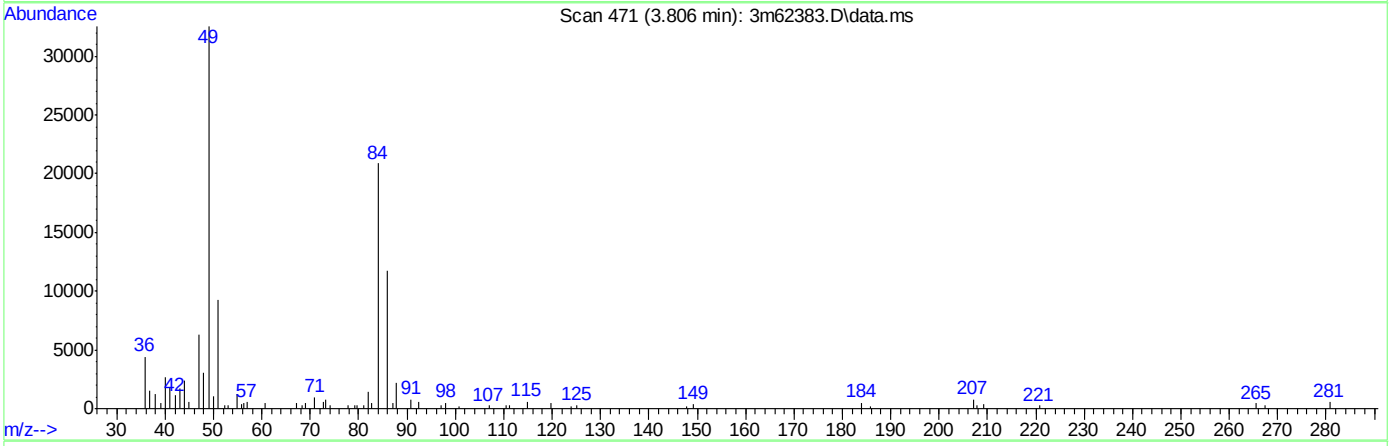
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62383.D
Acq On : 21 Jun 2016 9:06 am
Operator : linseyk
Sample : dftpp
Misc : op94419a,e3m2943
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 09:10:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration





TIC: 3m62383.D\data.ms

(2) Benzidine (t)

3.806min 0.00ppb d

response 0

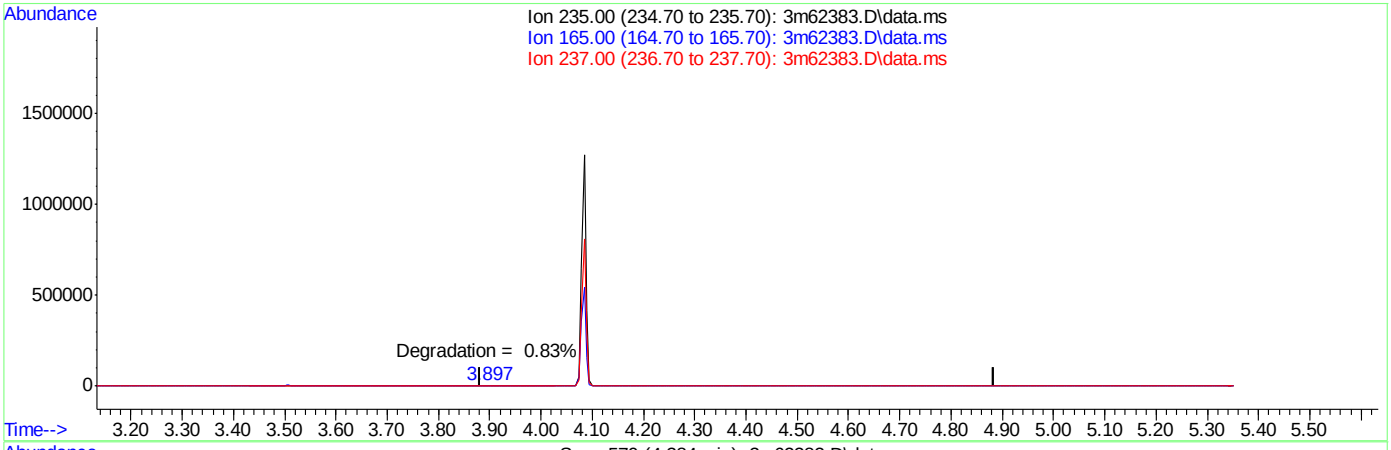
Ion	Exp%	Act%
184.00	100	0.00
183.00	11.50	0.00
185.00	14.40	0.00
0.00	0.00	0.00

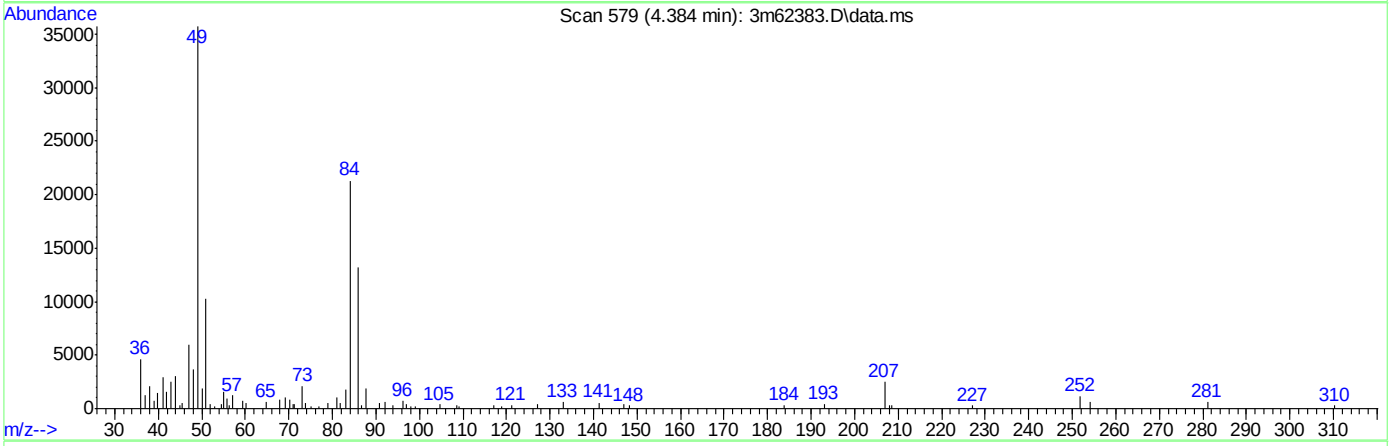
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62383.D
Acq On    : 21 Jun 2016   9:06 am
Operator  : linseyk
Sample    : dftpp
Misc      : op94419a,e3m2943
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Jun 21 09:10:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP3M.M
Quant Title  : DFTPP, RXI-5MS 30m x .25mm x .25um
QLast Update : Wed Dec 09 10:32:40 2015
Response via : Initial Calibration
```





TIC: 3m62383.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

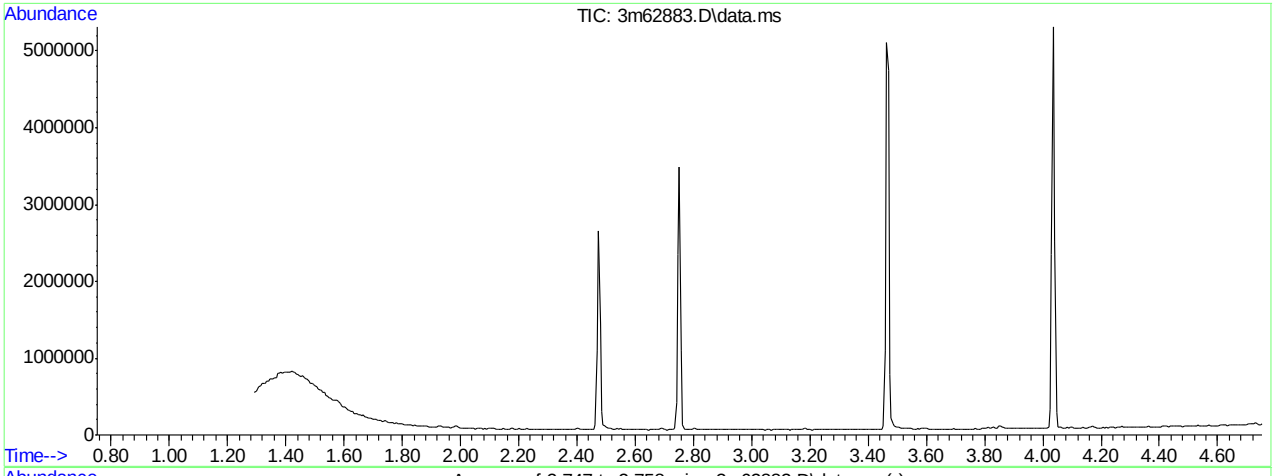
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

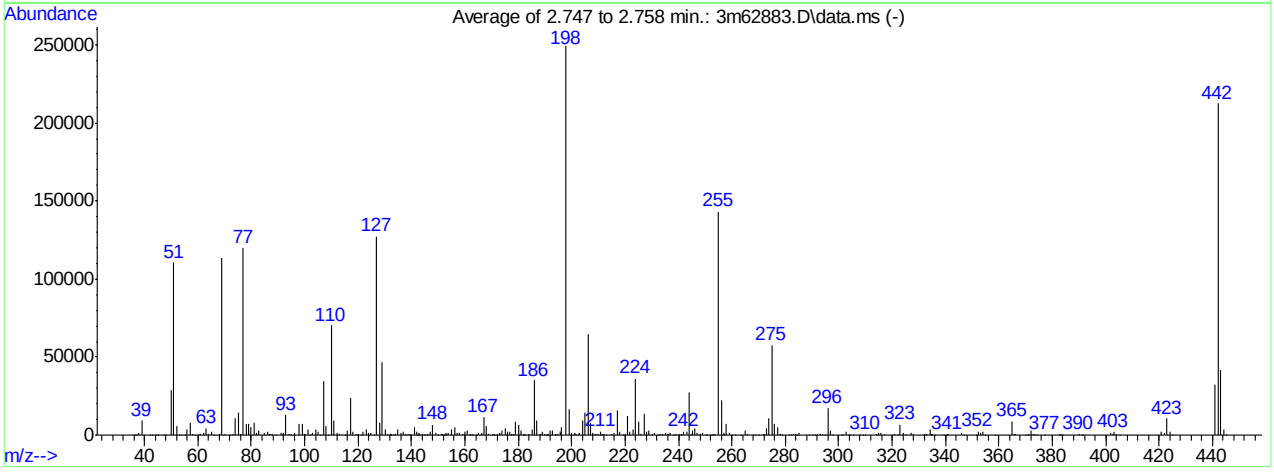
SGS ACCUTEST JC23654

DFTPP

Data File : C:\msdchem\1\DATA\E3M2971\3m62883.D Vial: 1
Acq On : 11 Jul 2016 8:57 am Operator: ashleyd
Sample : dftpp Inst : MS3M
Misc : op95160a,e3m2971 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 273, 274, 275; Background Corrected with Scan 268

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.4	110631	PASS
68	69	0.00	2	0.9	997	PASS
69	198	0.00	100	45.5	113392	PASS
70	69	0.00	2	0.5	517	PASS
127	198	40	60	51.2	127413	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	249064	PASS
199	198	5	9	6.6	16420	PASS
275	198	10	30	23.2	57699	PASS
365	198	1	100	3.5	8815	PASS
441	443	0.10	100	77.9	32426	PASS
442	198	40	100	85.3	212539	PASS
443	442	17	23	19.6	41635	PASS

3m62883.D DFTPP3M.M Mon Jul 11 14:29:52 2016 RPT1

Average of 2.747 to 2.758 min.: 3m62883.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	329	47.80	261	60.00	332	71.80	86
36.75	205	50.00	28766	60.80	638	73.10	735
37.00	301	50.95	110631	61.00	541	74.00	11046
38.00	1164	52.05	5934	62.00	1617	75.00	14694
39.00	9178	53.05	121	63.05	4499	76.10	445
42.10	252	53.80	213	64.05	693	77.00	119877
43.00	27	55.05	334	64.95	1859	78.05	7491
43.95	319	56.00	3366	66.00	268	78.95	7005
44.80	212	57.00	7661	68.00	997	80.00	5415
45.00	200	58.10	610	69.00	113392	80.95	7812
46.90	30	59.00	282	70.00	517	81.85	1742

Average of 2.747 to 2.758 min.: 3m62883.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
82.95	2620	94.05	1009	105.00	2239	117.00	23671
85.05	1475	94.95	584	105.80	113	117.95	1950
85.90	2150	96.00	1127	107.00	34503	119.10	448
86.90	587	97.95	7551	108.00	5937	119.60	152
87.10	591	99.05	6948	108.90	228	120.15	538
87.90	597	99.80	265	110.00	70136	121.00	367
88.85	261	100.05	503	110.95	9721	121.95	2259
91.00	1582	101.05	3944	112.05	1439	123.05	3549
91.70	249	102.00	158	113.10	485	124.05	1452
92.05	1806	103.05	1615	114.90	110	124.90	1495
93.00	12604	104.00	3504	115.90	2947	125.80	116

Average of 2.747 to 2.758 min.: 3m62883.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
127.00	127413	135.00	3713	142.95	1438	151.50	615
128.00	8066	136.05	1268	144.00	518	151.80	301
129.00	46826	136.95	2453	144.80	124	152.00	348
130.10	3578	137.80	550	145.00	293	152.80	578
131.00	1092	138.10	310	145.60	137	152.90	313
132.00	306	138.90	432	145.95	963	153.05	1526
132.15	416	140.00	562	147.05	2473	153.90	1542
132.50	90	141.00	4966	148.00	6712	155.00	3700
133.10	263	141.95	2001	148.95	1581	156.10	4916
133.80	448	142.40	380	149.95	360	156.95	1463
134.00	1088	142.60	165	151.00	924	157.80	1482

Average of 2.747 to 2.758 min.: 3m62883.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
159.05	925	166.10	1336	175.70	172	182.70	167
160.05	2463	166.95	11509	176.10	1949	184.05	943
161.00	2659	168.00	6005	176.90	2192	185.00	3655
161.80	292	169.00	851	177.10	223	186.00	35155
162.10	466	170.05	236	177.75	888	187.00	9170
162.50	222	170.75	414	178.00	127	187.95	348
163.00	211	171.10	155	179.00	8777	188.20	425
164.40	158	172.05	931	179.95	6398	188.95	2460
164.70	142	172.90	1455	181.00	3070	190.00	396
164.95	1364	174.05	2925	181.80	89	190.25	347
165.70	235	175.05	4656	182.10	432	190.90	976

Average of 2.747 to 2.758 min.: 3m62883.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
191.10	283	200.80	140	209.10	415	219.25	328
192.05	2640	201.35	1251	210.15	699	220.10	646
192.95	3184	201.70	687	210.70	168	220.95	12374
193.70	268	202.30	315	210.95	2451	221.85	2039

194.10	526	202.80	1626	211.75	725	223.00	3520
194.80	404	204.00	9093	212.00	467	224.00	36142
195.90	2041	205.00	14612	212.95	299	224.95	8722
196.10	4746	206.00	64344	214.95	605	225.95	629
197.90	249064	206.95	7904	215.95	1216	227.00	13903
198.95	16420	207.90	1779	216.95	15567	227.95	1855
199.95	1135	208.80	513	217.95	1988	229.00	2902

Average of 2.747 to 2.758 min.: 3m62883.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
230.00	724	238.85	415	248.05	388	256.80	193
230.90	1707	240.05	523	248.85	1144	257.05	1511
232.10	219	240.85	466	250.10	108	258.00	7126
233.00	523	241.10	355	250.90	213	259.00	1515
233.85	794	242.05	2189	252.00	176	260.00	140
234.10	213	243.10	1858	252.20	115	261.05	368
235.05	1190	244.00	27487	252.60	103	263.10	87
235.80	246	244.80	501	253.05	732	265.00	3162
236.05	601	245.05	3157	253.70	368	265.95	425
237.00	1273	246.00	4634	255.00	143296	267.90	78
238.30	254	247.00	1179	256.00	22285	268.60	79

Average of 2.747 to 2.758 min.: 3m62883.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
269.90	92	281.50	129	293.15	483	305.10	176
271.80	125	282.10	95	294.10	437	307.80	117
272.10	427	283.00	779	294.95	336	308.90	144
273.00	4049	283.75	492	296.00	17325	310.00	201
274.00	10810	284.20	163	297.05	2866	313.90	673
275.00	57699	285.10	1317	297.85	309	314.20	513
276.00	7484	288.90	236	301.10	86	314.60	193
277.00	4862	290.00	122	301.70	77	314.95	1655
277.90	171	291.00	110	302.95	2023	315.90	1322
278.10	467	291.95	255	303.80	280	317.20	76
279.00	169	292.90	942	304.10	118	320.90	655

Average of 2.747 to 2.758 min.: 3m62883.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
322.20	287	334.60	258	353.00	1229	373.00	699
323.00	6845	334.80	528	354.05	2132	373.30	158
324.10	1531	335.10	443	355.00	370	374.00	107
324.90	135	336.10	109	358.80	90	377.10	84
326.95	1613	339.10	256	365.00	8815	382.70	201
327.95	595	340.70	128	365.90	1017	382.95	618
331.70	84	340.95	615	366.15	599	383.20	209
332.00	599	346.00	1763	370.05	265	383.90	190
332.70	245	346.80	326	370.70	108	389.95	705
333.00	704	351.60	236	371.00	417	390.85	313
334.05	3663	352.10	2205	372.15	2967	391.20	373

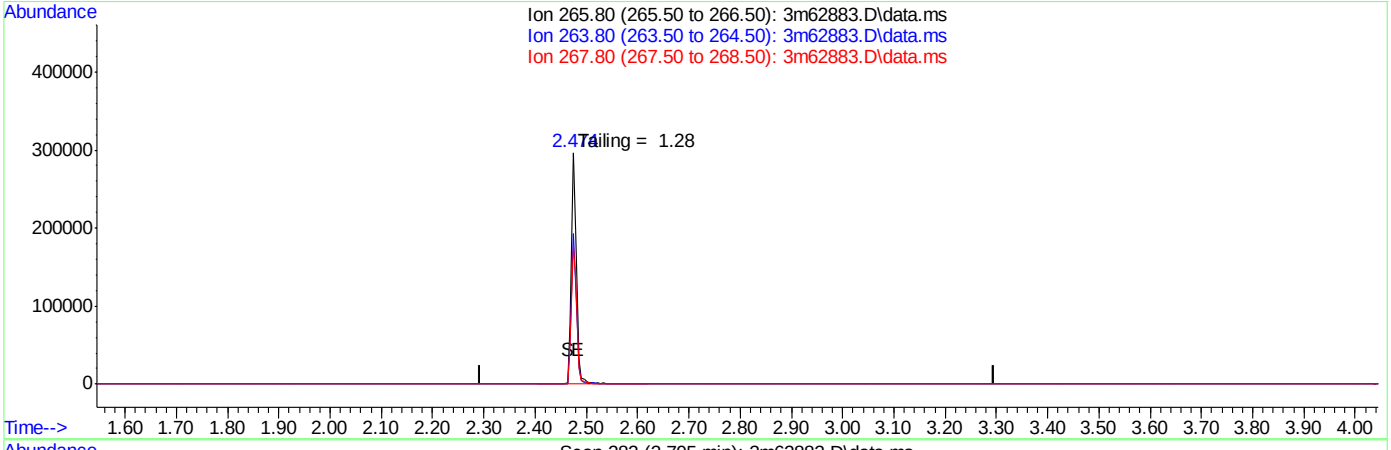
Average of 2.747 to 2.758 min.: 3m62883.D\data.ms
dftpp
Modified:subtracted

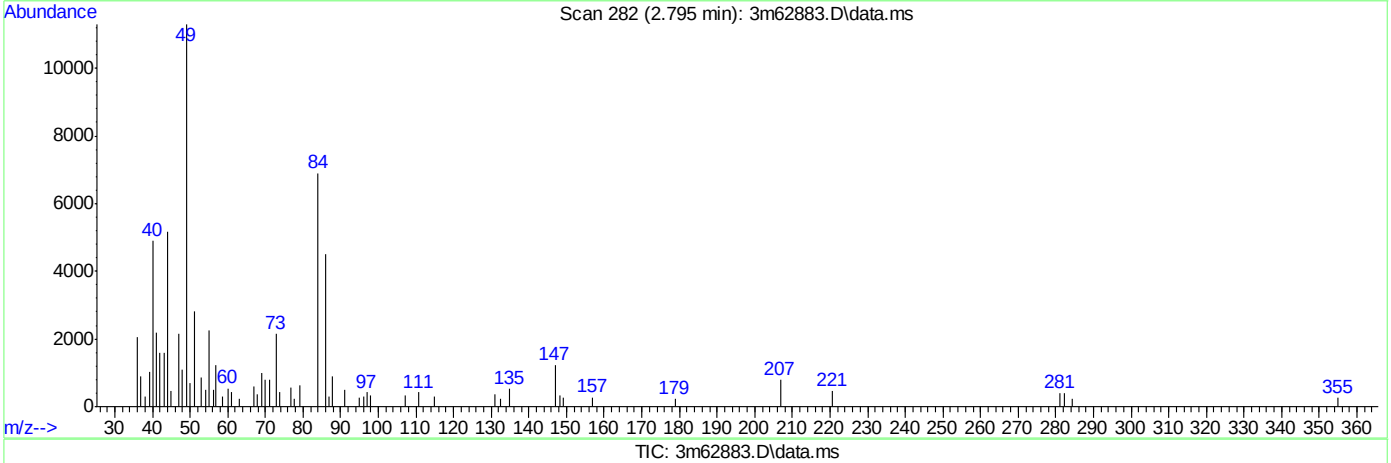
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
401.85	1604	442.00	212539				
402.80	450	443.00	41635				
403.00	1837	444.10	3461				
403.90	577	444.90	75				
405.20	140						
420.95	1942						
421.85	1230						
423.00	10666						
424.05	2333						
424.80	112						
441.05	32426						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62883.D
Acq On : 11 Jul 2016 8:57 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2971
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 09:02:00 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: 3m62883.D\data.ms

(1) Pentachlorophenol (t)

2.795min (-2.795) 0.00ppb

response 0

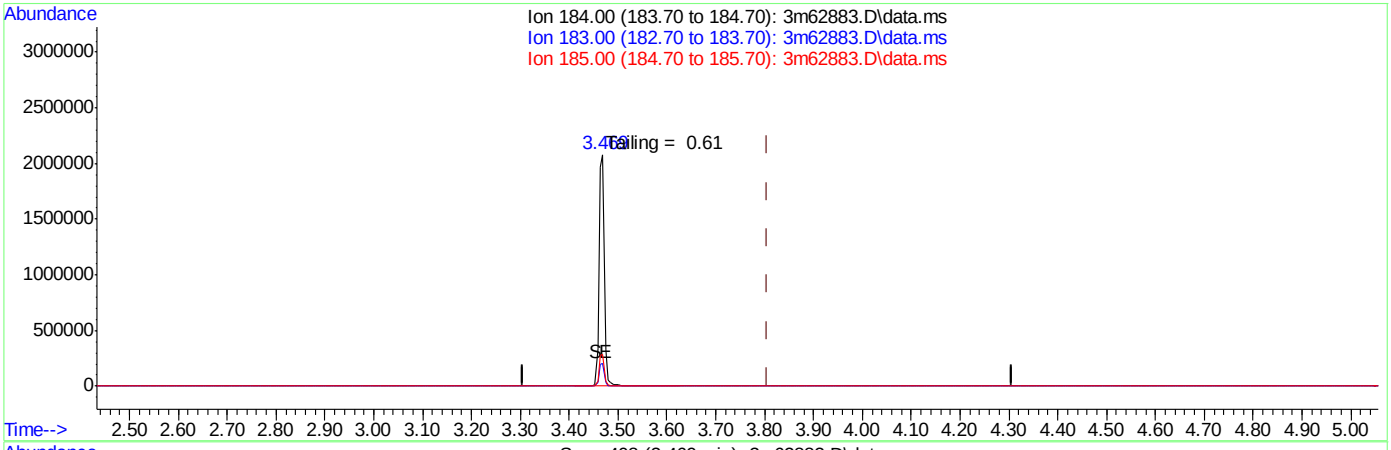
Ion	Exp%	Act%
265.80	100	0.00
263.80	62.80	0.00#
267.80	64.10	0.00#
0.00	0.00	0.00

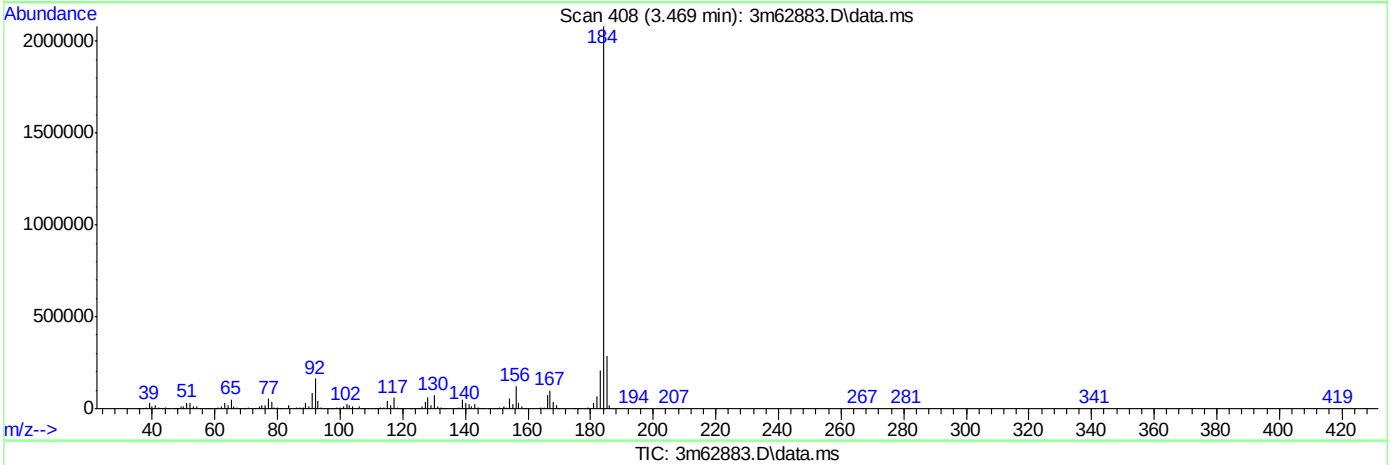
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62883.D
Acq On : 11 Jul 2016 8:57 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2971
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 09:02:00 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: 3m62883.D\data.ms

(2) Benzidine (t)

3.469min (-0.337) 86.68ppb m

response 1577307

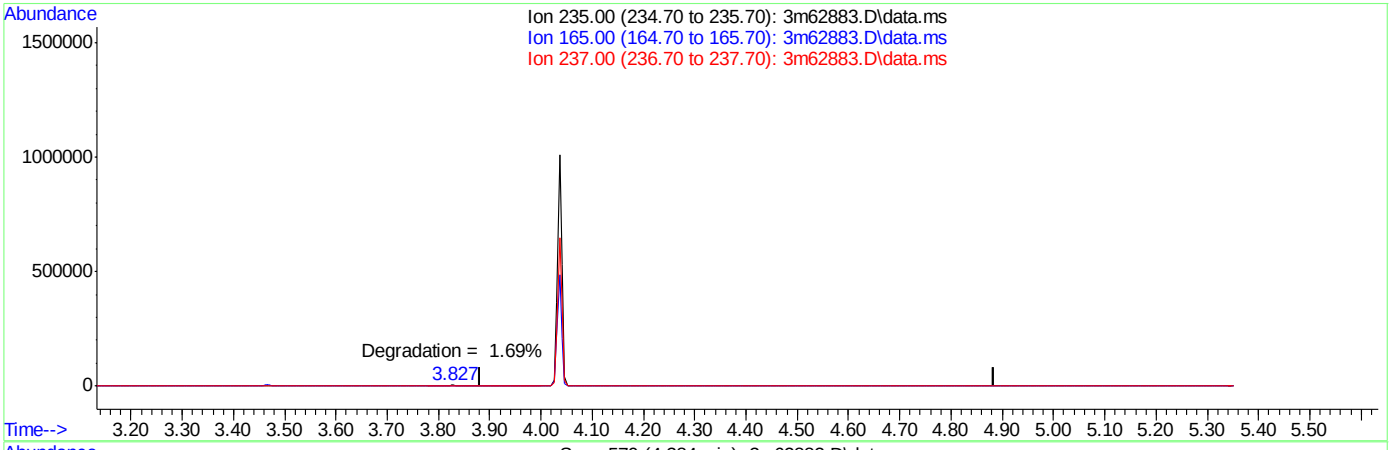
Ion	Exp%	Act%
184.00	100	100
183.00	11.50	9.84
185.00	14.40	13.77
0.00	0.00	0.00

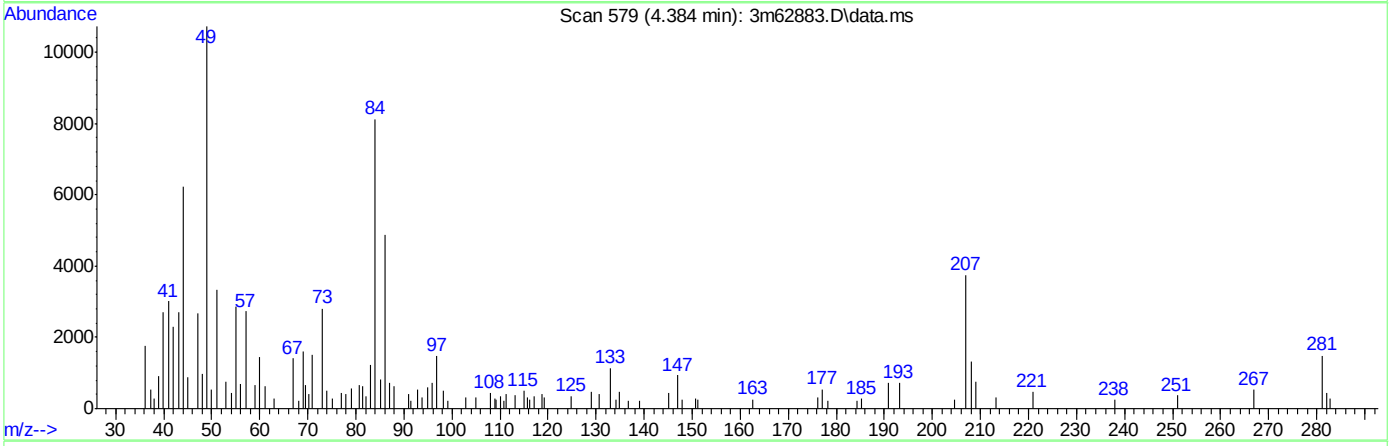
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62883.D
Acq On : 11 Jul 2016 8:57 am
Operator : ashleyd
Sample : dftpp
Misc : op95160a,e3m2971
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 09:02:00 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: 3m62883.D\data.ms

(3) PP-DDT (t)

4.384min (-4.384) 0.00ppb

response 0

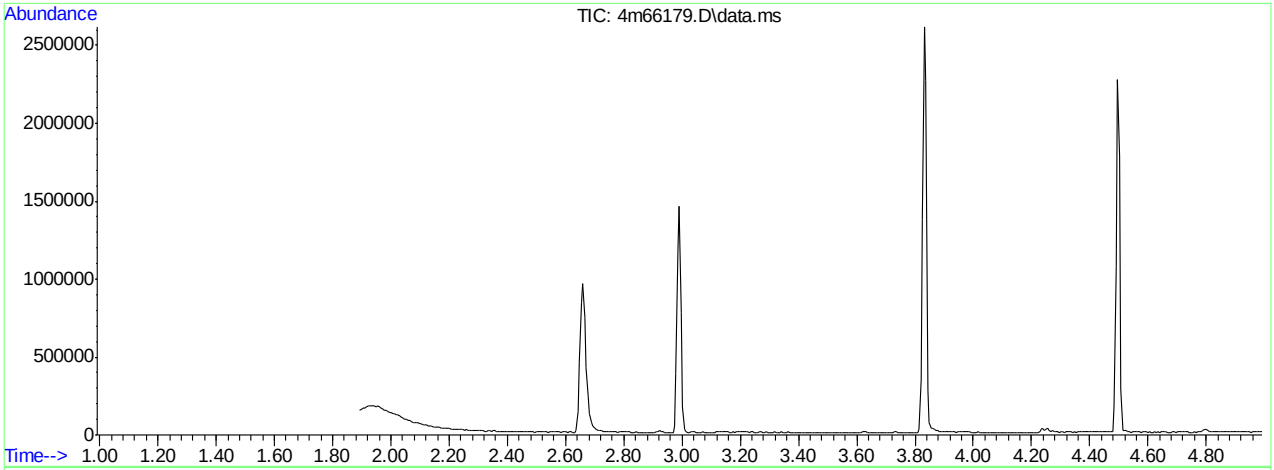
Ion	Exp%	Act%
235.00	100	0.00
165.00	0.00	0.00
237.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST JC23654

DFTPP

Data File : C:\msdchem\1\DATA\E4M2974\4m66179.D Vial: 1
Acq On : 20 Jun 2016 10:06 pm Operator: ashleyd
Sample : dftpp Inst : GCMS4M
Misc : op94799a,e4m2974 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um



AutoFind: Scans 192, 193, 194; Background Corrected with Scan 187

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.7	58020	PASS
68	69	0.00	2	0.9	561	PASS
69	198	0.00	100	44.3	61706	PASS
70	69	0.00	2	0.4	274	PASS
127	198	40	60	50.0	69656	PASS
197	198	0.00	1	0.3	387	PASS
198	198	100	100	100.0	139197	PASS
199	198	5	9	6.6	9146	PASS
275	198	10	30	20.6	28704	PASS
365	198	1	100	2.4	3401	PASS
441	443	0.01	100	76.6	15333	PASS
442	198	40	100	72.8	101275	PASS
443	442	17	23	19.8	20015	PASS

4m66179.D DFTPP4M.M Tue Jun 21 07:51:45 2016 MANAGER

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	15050	62.05	815	74.05	5262	85.00	663
51.05	58020	63.05	2325	75.00	8692	86.00	482
52.00	3099	64.10	428	76.10	3223	87.05	590
52.95	188	65.00	1155	77.05	63527	87.90	16
54.10	85	66.90	213	78.10	4774	89.00	69
55.10	356	67.20	127	79.00	3877	91.00	970
56.00	1758	68.00	561	80.00	2995	92.00	1263
57.00	3953	68.95	61706	81.00	4713	93.00	6468
57.90	312	70.00	274	82.00	899	93.95	419
60.05	246	71.05	13	82.95	969	94.95	346
61.00	760	72.95	342	84.00	339	96.05	393

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.00	13	108.00	3005	119.95	217	132.95	167
98.00	4455	110.00	36653	122.00	1075	134.00	734
99.00	3735	111.00	5105	123.00	1822	135.00	1922
100.00	412	111.95	656	124.00	723	136.00	808
101.00	2476	112.90	67	125.00	952	137.00	972
101.80	88	113.10	85	127.00	69656	137.70	118
103.00	876	115.00	194	128.00	5317	140.00	316
104.00	1542	116.05	1067	129.00	25164	141.00	2818
105.00	1487	117.00	10735	130.00	1825	142.05	1018
106.10	434	117.95	891	131.00	461	143.00	729
107.00	17644	118.90	187	132.05	308	144.00	230

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
145.05	166	153.00	580	162.95	161	174.00	1182
145.90	166	154.00	654	163.90	267	175.05	2222
146.05	350	155.05	1787	164.95	1144	176.00	814
147.00	1398	156.00	2581	166.00	843	176.95	1132
148.00	2948	157.00	637	167.00	5850	178.00	467
148.95	690	157.90	555	168.05	2419	179.00	4345
149.90	95	158.90	319	168.95	516	180.00	2995
151.00	491	159.10	105	170.00	190	181.00	1534
151.60	133	160.00	826	171.00	357	182.00	304
152.00	180	160.95	1212	171.90	560	182.90	168
152.80	309	162.00	489	173.00	732	184.00	357

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.00	2069	194.80	100	203.05	525	212.20	69
186.05	16713	195.10	143	204.05	4544	213.10	69
187.00	4736	196.00	4173	205.05	6989	215.05	235
187.95	447	196.70	387	206.10	31419	216.00	513
188.95	924	198.00	139197	207.10	4195	217.00	7273
190.00	74	199.00	9146	207.90	338	218.05	997
190.95	443	200.00	690	208.10	801	219.80	68
191.20	154	201.20	161	209.00	381	221.10	7656
192.00	1122	201.55	850	210.00	146	223.00	1988
192.95	1559	202.15	298	210.95	1200	224.10	16877
194.05	411	202.90	233	212.00	93	225.10	3938

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.00	573	240.00	104	250.80	75	259.90	68
227.00	6296	240.95	287	252.00	100	264.00	72
228.00	1005	242.00	980	252.30	89	265.05	1111
229.00	1373	243.00	345	252.50	130	265.85	278

M4M2973SIM.M Mon Jun 20 21:06:02 2016 MANAGER Page: 0

229.95	233	243.15	806	253.05	222	270.05	144
231.10	691	244.10	13582	253.30	320	272.00	93
234.00	443	245.05	1807	255.00	64309	273.00	2154
234.85	439	246.00	2074	256.00	9152	274.05	5590
235.95	216	246.90	138	257.05	809	275.00	28704
236.95	529	247.05	387	258.05	3317	276.05	4067
239.10	117	249.00	506	259.00	500	277.05	1922

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
278.00	290	303.05	860	326.95	433	355.20	68
283.05	200	304.00	109	327.90	241	365.00	3401
284.10	82	308.10	76	332.10	77	366.00	467
285.10	388	309.90	69	333.10	314	371.05	308
291.90	83	314.00	406	334.00	1393	372.05	1423
293.00	680	315.00	824	335.05	470	373.00	368
294.70	69	315.95	478	341.00	450	382.95	300
295.05	330	321.05	335	346.00	599	383.90	70
296.05	6825	322.05	192	352.10	813	390.00	98
297.05	1078	323.05	2675	353.10	566	402.05	546
301.00	67	324.00	445	354.10	844	403.05	855

Average of 2.986 to 2.997 min.: 4m66179.D\data.ms
dftpp
Modified:subtracted

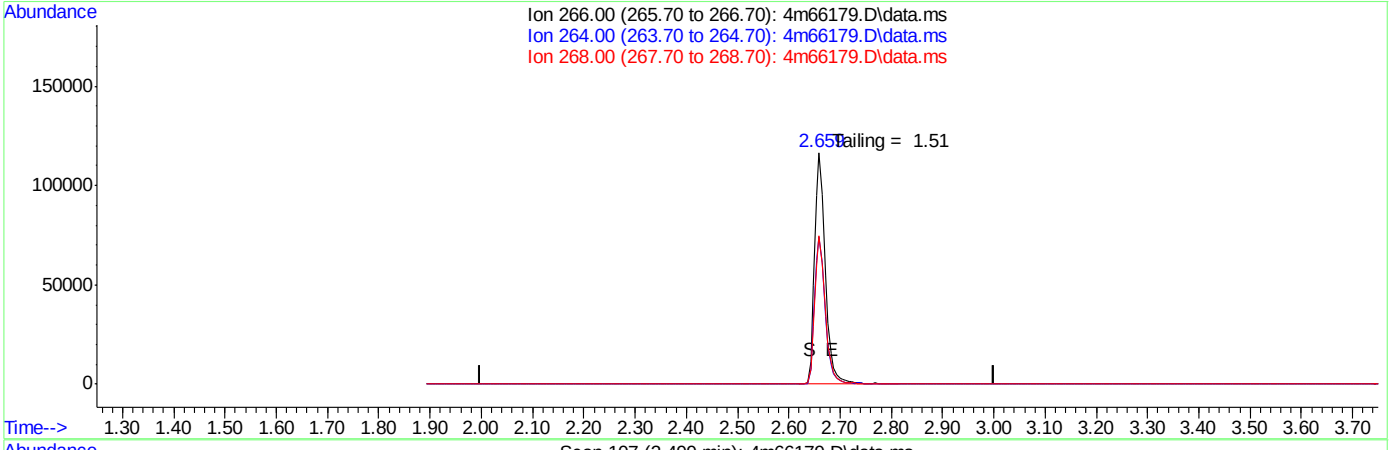
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
403.95	329	441.10	15333				
421.05	716	442.10	101275				
422.05	759	443.10	20015				
423.10	5222	444.10	1759				
424.05	1108						
433.80	68						
434.20	68						
437.70	114						
438.20	121						
438.55	354						
439.15	193						

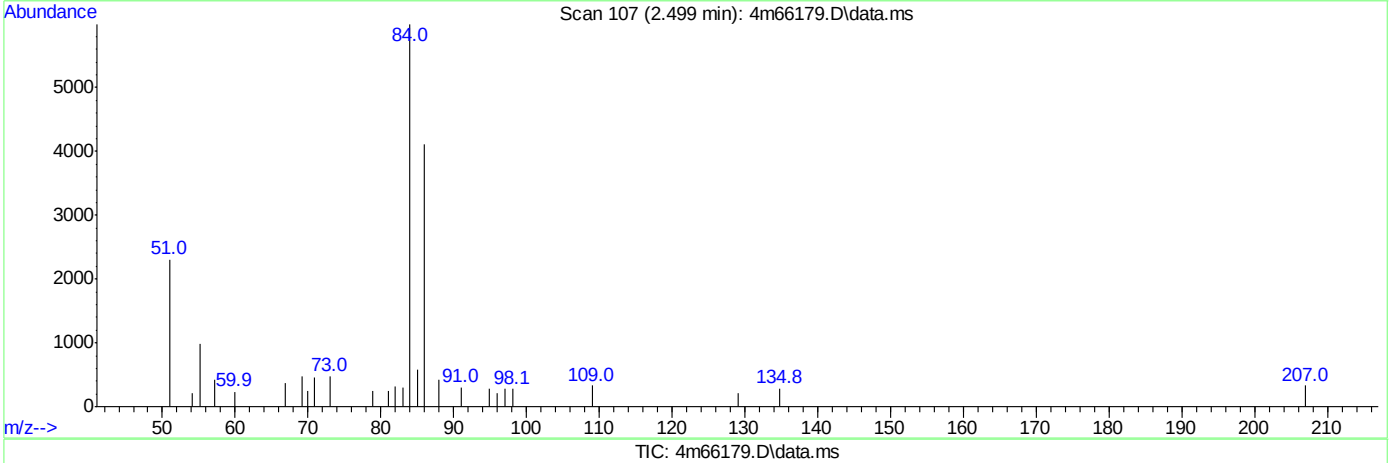
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66179.D
Acq On : 20 Jun 2016 10:06 pm
Operator : ashleyd
Sample : dftpp
Misc : op94799a,e4m2974
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 22:11:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66179.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

response 0

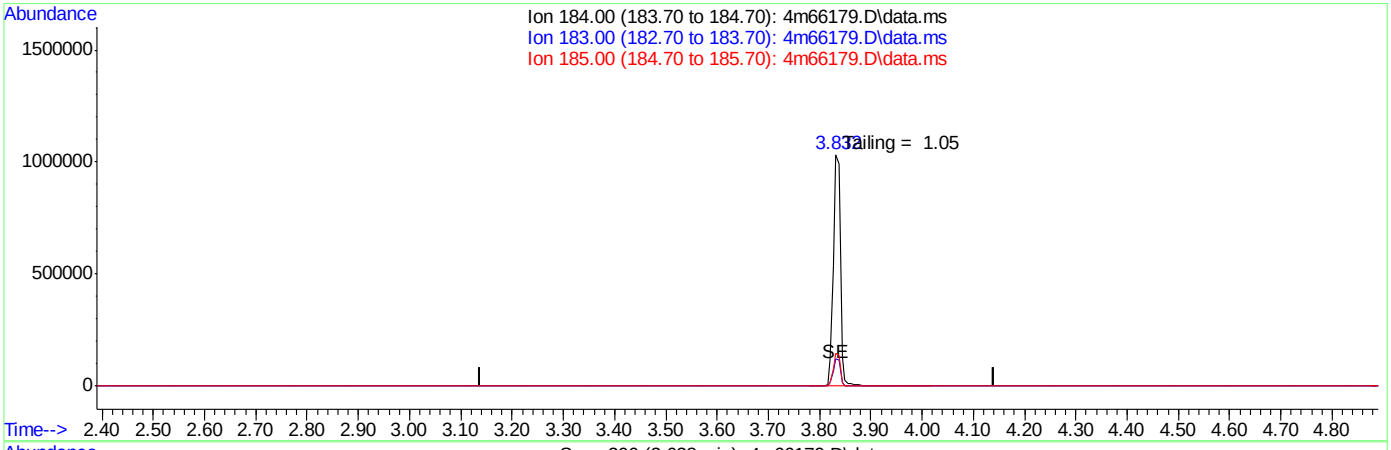
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

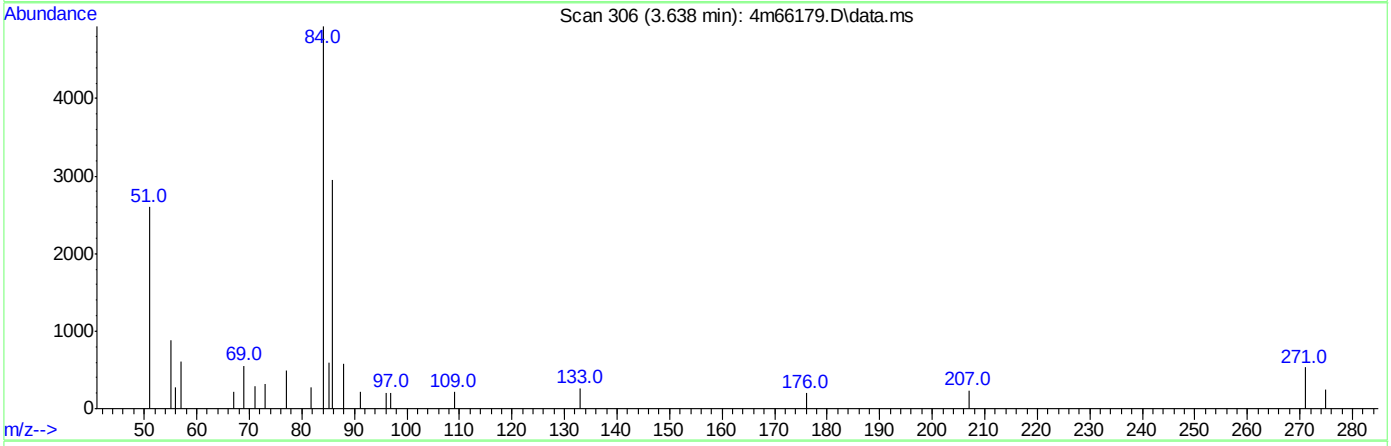
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66179.D
Acq On : 20 Jun 2016 10:06 pm
Operator : ashleyd
Sample : dftpp
Misc : op94799a,e4m2974
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 22:11:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66179.D\data.ms

(2) benzidine (t)

3.640min (-3.640) 0.00ppb

response 0

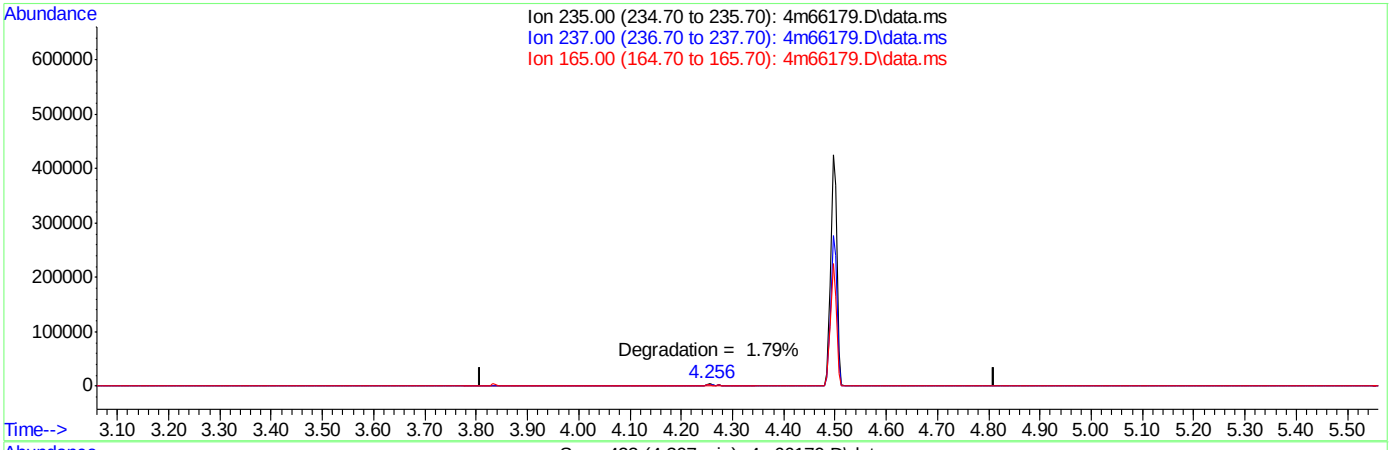
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

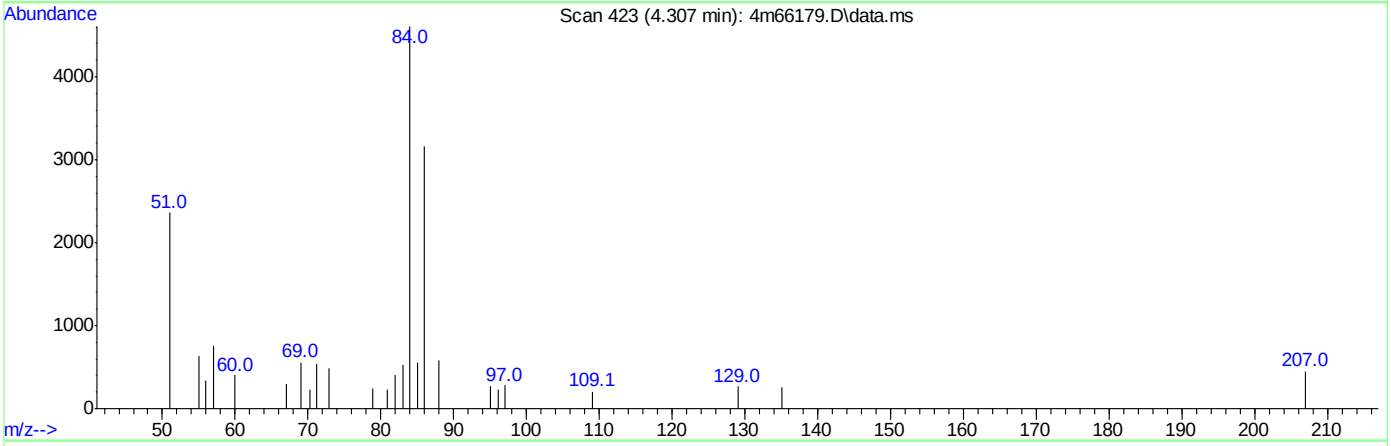
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66179.D
Acq On : 20 Jun 2016 10:06 pm
Operator : ashleyd
Sample : dftpp
Misc : op94799a,e4m2974
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 20 22:11:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66179.D\data.ms

(3) ddt (t)

4.310min (-4.310) 0.00ppb

response 0

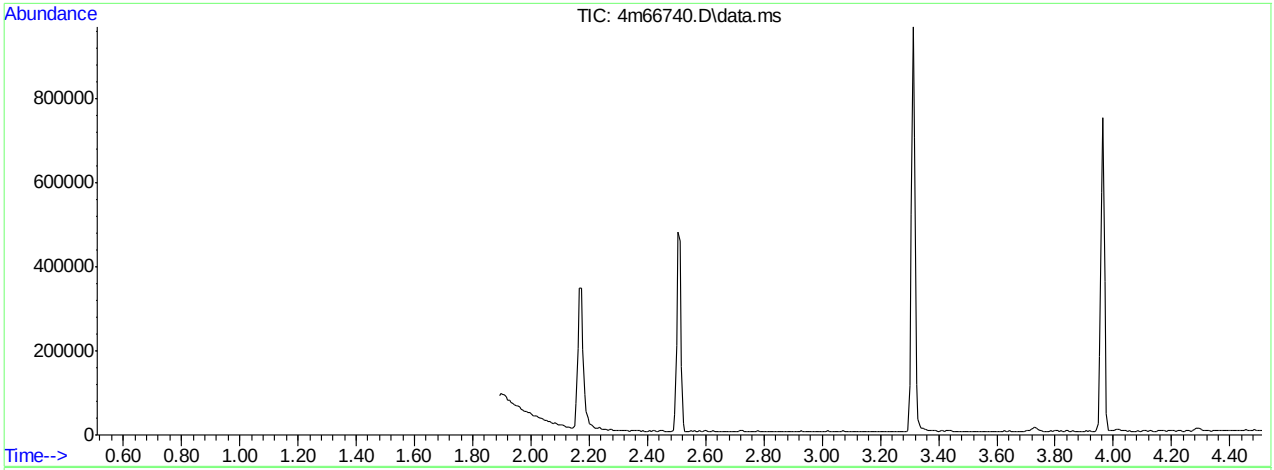
Ion	Exp%	Act%
235.00	100	0.00
237.00	63.70	0.00#
165.00	48.70	0.00#
0.00	0.00	0.00

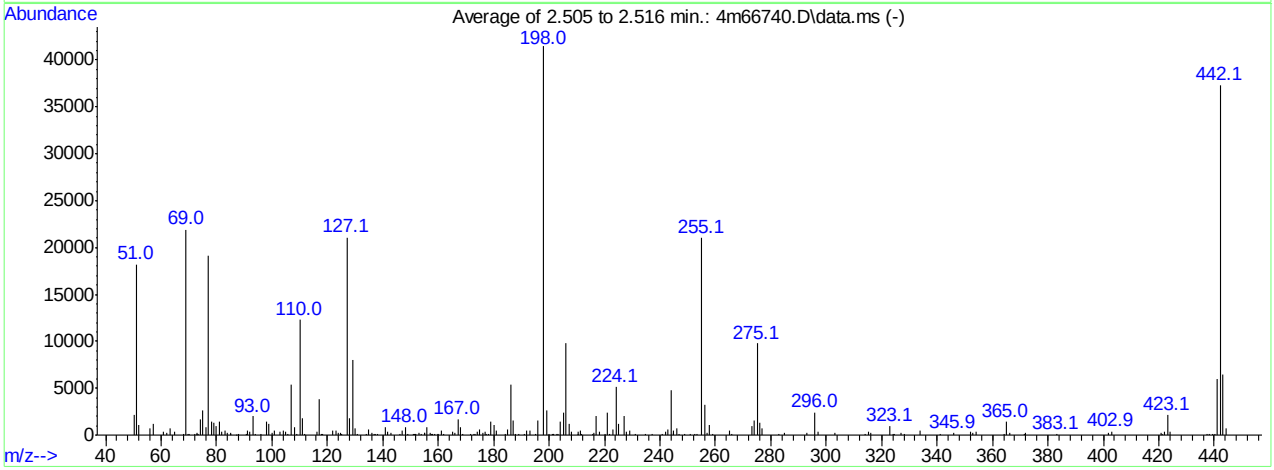
SGS ACCUTEST JC23654

DFTPP

Data File : C:\msdchem\1\DATA\E4M3003\4m66740.D Vial: 1
Acq On : 9 Jul 2016 12:13 pm Operator: ashleyd
Sample : dftpp Inst : GCMS4M
Misc : op95277a,e4m3003 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um





AutoFind: Scans 108, 109, 110; Background Corrected with Scan 102

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.0	18222	PASS
68	69	0.00	2	0.5	106	PASS
69	198	0.00	100	52.8	21903	PASS
70	69	0.00	2	0.3	68	PASS
127	198	40	60	50.9	21088	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	41445	PASS
199	198	5	9	6.3	2596	PASS
275	198	10	30	23.6	9785	PASS
365	198	1	100	3.4	1392	PASS
441	443	0.01	100	91.3	5934	PASS
442	198	40	100	90.1	37344	PASS
443	442	17	23	17.4	6496	PASS

4m66740.D DFTPP4M.M Sun Jul 10 12:10:55 2016 MANAGER

Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	2142	69.90	68	79.00	1323	91.05	452
51.00	18222	70.10	68	80.00	956	92.00	366
52.10	1135	72.10	77	80.95	1393	93.00	2032
56.00	687	72.85	190	81.95	407	94.00	75
57.00	1228	73.10	168	83.00	453	96.10	74
61.00	328	73.30	122	83.90	251	98.00	1418
62.10	251	74.05	1649	84.90	133	99.00	1147
63.05	683	75.00	2649	85.05	265	99.95	185
65.00	411	76.20	804	87.00	12	101.05	539
68.10	106	77.10	19191	87.80	127	103.00	395
69.00	21903	78.10	1444	90.70	103	103.95	493

Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.00	385	118.05	183	134.00	170	148.00	893
105.90	111	121.95	432	135.00	548	149.00	98
107.00	5344	122.95	480	136.10	249	151.00	112
108.00	813	123.90	258	136.90	160	151.50	95
108.90	176	124.90	230	137.10	151	151.80	99
110.00	12282	125.20	90	138.10	89	152.00	69
111.00	1755	127.05	21088	141.05	895	153.00	192
111.95	178	128.05	1790	141.85	312	153.95	179
116.10	367	129.00	7998	143.05	232	154.90	229
117.00	3808	130.00	735	146.00	86	155.10	246
117.80	75	130.80	74	147.05	504	156.00	830

Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
157.00	188	167.00	1726	177.30	97	190.90	164
157.30	89	168.05	894	178.00	95	191.95	468
157.70	112	168.95	163	179.00	1484	192.90	509
158.00	102	171.80	117	180.00	1128	195.20	96
158.90	93	173.00	69	181.00	514	196.00	1579
159.80	123	173.20	136	184.10	73	198.00	41445
160.10	105	174.15	338	185.15	657	199.00	2596
161.00	455	174.80	87	186.05	5410	200.00	149
162.00	101	175.05	572	187.05	1553	201.10	76
165.00	369	175.95	245	188.00	123	201.50	155
165.90	245	176.90	323	188.95	183	201.70	87

Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
202.90	133	215.70	118	227.90	350	245.95	707
203.10	176	216.10	243	228.95	465	246.90	94
204.10	1427	217.00	2061	231.00	149	248.90	93
205.10	2352	218.00	337	234.95	156	250.90	72
206.10	9846	220.00	80	237.20	74	252.50	76
207.10	1150	221.05	2417	241.00	81	253.40	135
207.90	408	221.70	153	242.00	338	255.05	21039
210.40	333	223.05	578	243.00	573	256.00	3212
210.60	71	224.10	5108	244.10	4763	257.10	193
211.10	489	225.10	1223	244.90	226	258.00	1077
211.50	79	227.05	2025	245.05	496	258.90	70

Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
264.95	521	297.00	399	341.10	68	402.00	248
265.80	84	302.95	292	345.90	222	402.95	402
273.05	914	314.10	79	352.05	342	420.95	184
274.05	1616	315.05	331	352.95	220	421.20	128

M4M2974SIM.M Sat Jul 09 12:52:09 2016 MANAGER Page: 0

275.10	9785	316.00	184	354.05	324	422.05	343
276.00	1363	323.05	1006	364.10	91	423.10	2129
277.00	736	324.00	138	365.00	1392	424.05	354
282.80	75	324.40	71	366.05	228	437.60	113
285.05	211	327.00	195	371.60	170	438.20	93
293.05	211	328.10	72	371.90	294	439.60	89
296.00	2413	334.05	530	383.10	67	440.10	169

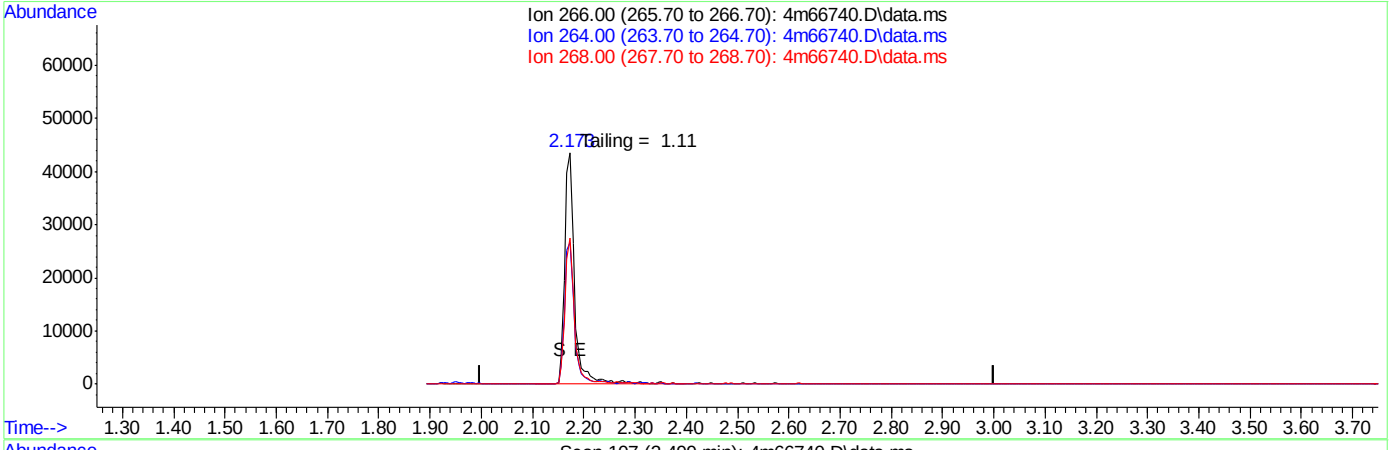
Average of 2.505 to 2.516 min.: 4m66740.D\data.ms
dftpp
Modified:subtracted

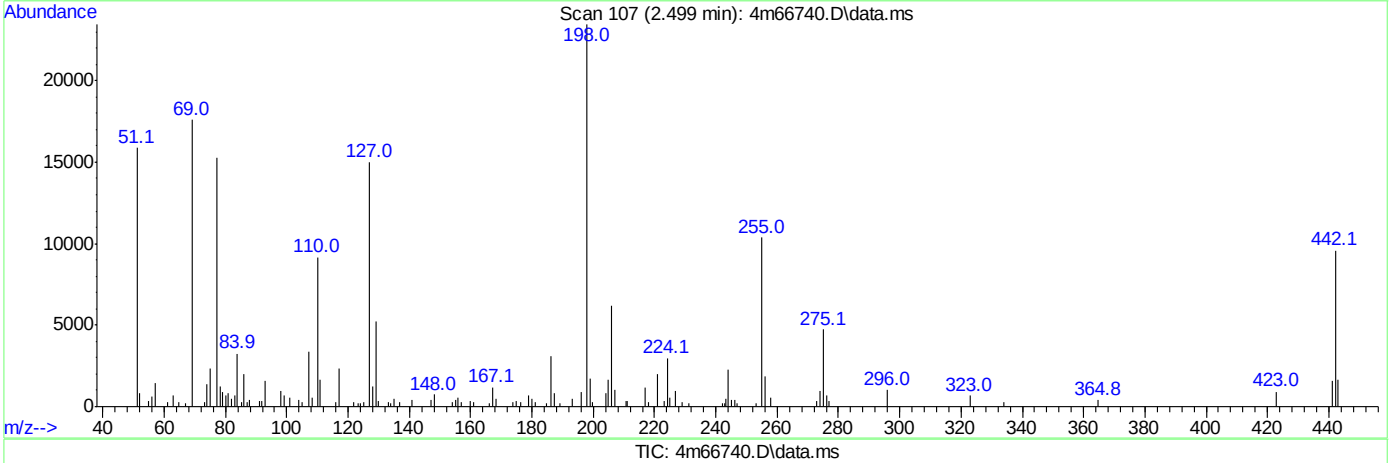
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
441.10	5934						
442.10	37344						
443.10	6496						
444.10	701						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66740.D
Acq On : 9 Jul 2016 12:13 pm
Operator : ashleyd
Sample : dftpp
Misc : op95277a,e4m3003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 09 12:18:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66740.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

response 0

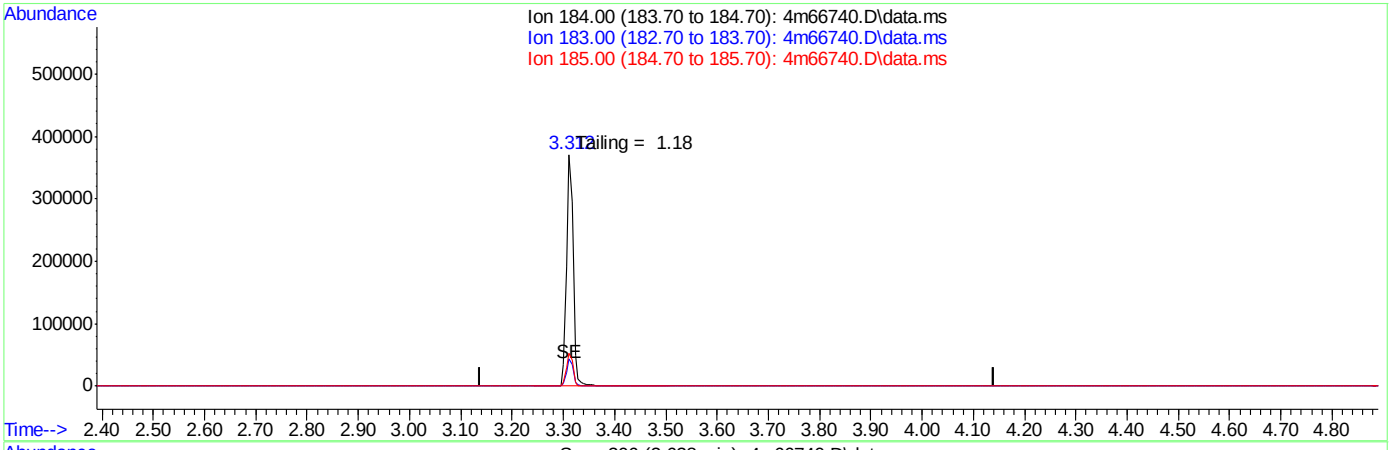
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

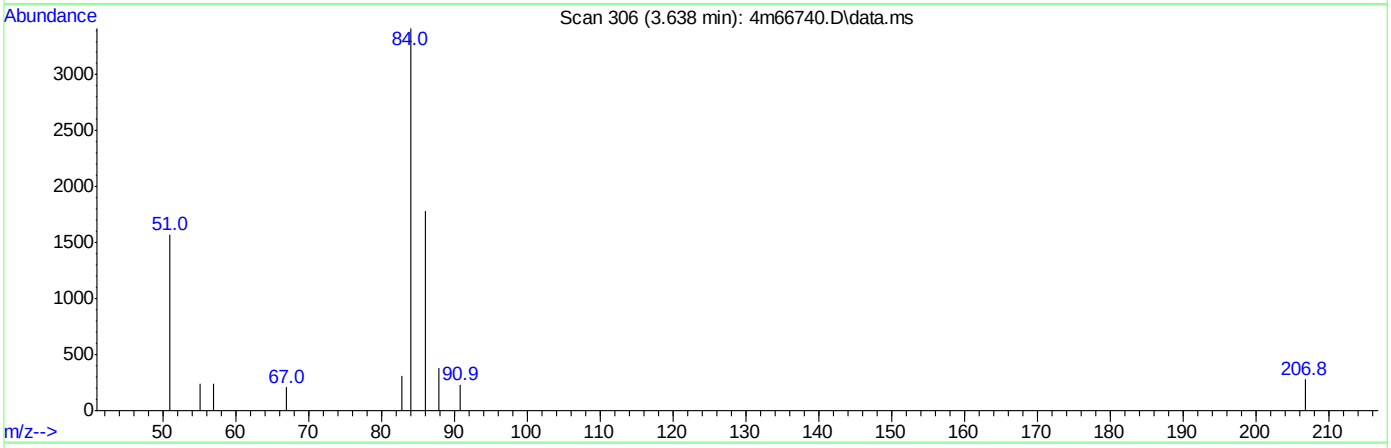
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66740.D
Acq On : 9 Jul 2016 12:13 pm
Operator : ashleyd
Sample : dftpp
Misc : op95277a,e4m3003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 09 12:18:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66740.D\data.ms

(2) benzidine (t)

3.640min (-3.640) 0.00ppb

response 0

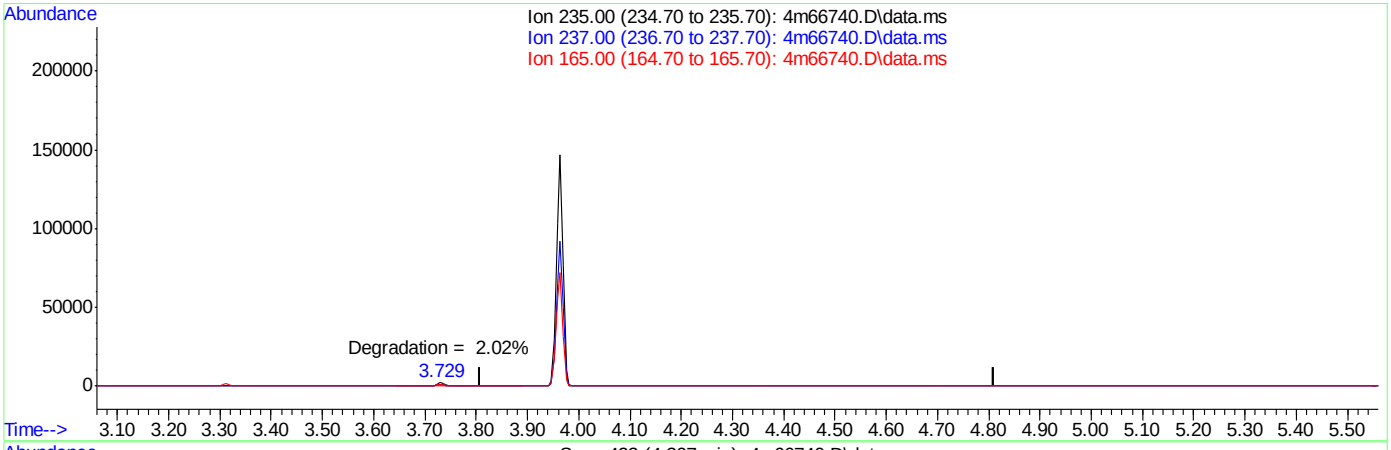
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

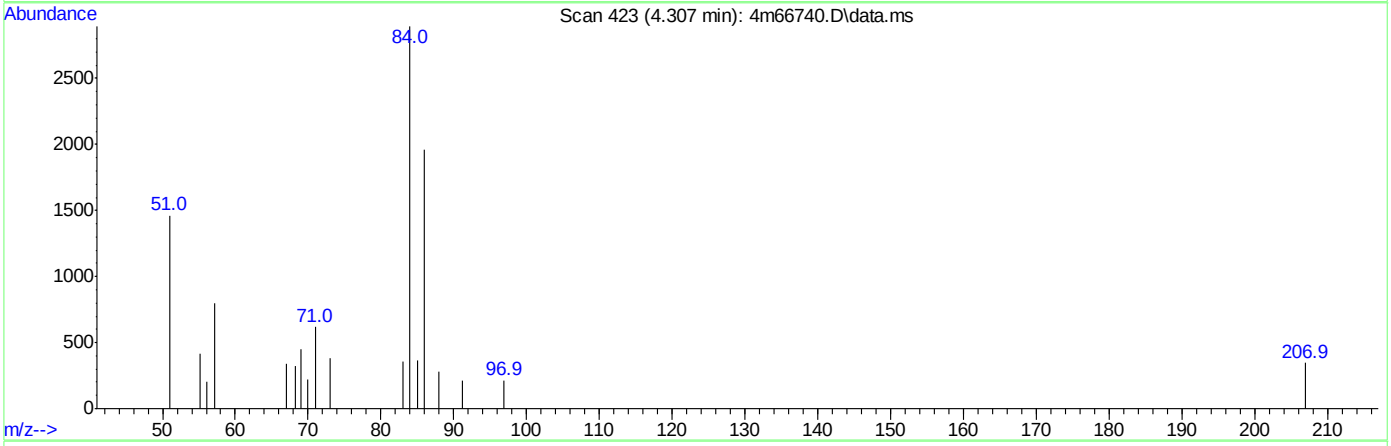
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66740.D
Acq On : 9 Jul 2016 12:13 pm
Operator : ashleyd
Sample : dftpp
Misc : op95277a,e4m3003
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 09 12:18:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66740.D\data.ms

(3) ddt (t)

4.310min (-4.310) 0.00ppb

response 0

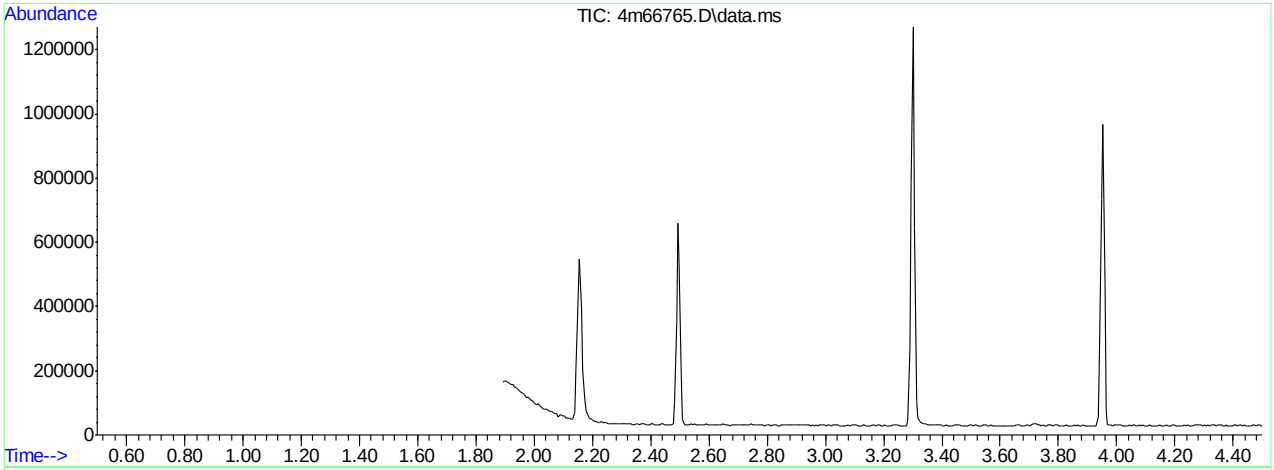
Ion	Exp%	Act%
235.00	100	0.00
237.00	63.70	0.00#
165.00	48.70	0.00#
0.00	0.00	0.00

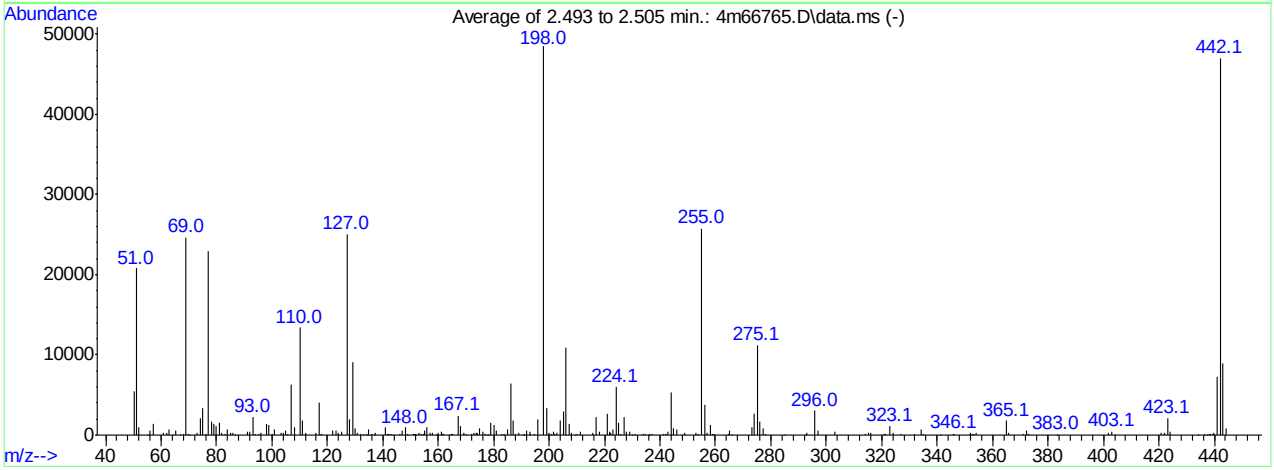
SGS ACCUTEST JC23654

DFTPP

Data File : C:\msdchem\1\DATA\E4M3004\4m66765.D Vial: 1
Acq On : 11 Jul 2016 8:45 am Operator: ashleyd
Sample : dftpp Inst : GCMS4M
Misc : op95277a,e4m3004 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um





AutoFind: Scans 106, 107, 108; Background Corrected with Scan 101

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	42.9	20787	PASS
68	69	0.00	2	0.5	113	PASS
69	198	0.00	100	50.9	24666	PASS
70	69	0.00	2	0.4	89	PASS
127	198	40	60	51.8	25090	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	48461	PASS
199	198	5	9	6.9	3340	PASS
275	198	10	30	23.2	11231	PASS
365	198	1	100	3.7	1780	PASS
441	443	0.01	100	82.2	7309	PASS
442	198	40	100	97.0	46984	PASS
443	442	17	23	18.9	8891	PASS

4m66765.D DFTPP4M.M Mon Jul 11 14:54:41 2016 MANAGER

Average of 2.493 to 2.505 min.: 4m66765.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	5461	66.80	75	79.05	1455	93.00	2282
51.05	20787	68.00	113	80.00	1130	93.90	125
52.05	1051	69.00	24666	81.00	1482	95.10	199
55.00	7	69.90	89	81.95	313	96.05	220
56.05	558	70.20	69	83.00	167	98.00	1444
57.00	1343	73.00	277	84.00	654	99.00	1302
60.90	283	74.00	2088	85.00	304	100.10	86
62.00	243	75.00	3336	86.00	279	101.00	762
63.00	737	76.10	141	86.85	36	103.10	317
64.20	70	77.10	22925	91.00	397	104.00	322
65.05	590	78.10	1737	92.00	402	105.00	614

Average of 2.493 to 2.505 min.: 4m66765.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.80	86	123.05	556	134.30	68	147.00	550
107.05	6281	123.95	256	135.00	686	148.00	950
108.05	926	125.05	400	136.05	199	149.10	191
110.00	13381	127.00	25090	136.70	68	150.80	181
111.00	1887	128.10	1930	137.05	259	151.50	97
112.00	247	129.00	9107	140.95	975	151.70	75
115.85	343	129.90	797	141.70	144	152.00	106
117.00	4088	130.90	281	142.00	134	153.00	277
117.70	118	131.90	109	143.00	201	153.90	205
118.00	126	133.00	69	143.80	67	154.60	79
122.00	542	133.90	112	146.10	196	155.05	558

Average of 2.493 to 2.505 min.: 4m66765.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.00	1007	167.05	2422	177.00	171	187.90	143
157.05	239	168.05	1060	177.80	69	188.95	313
157.80	238	169.05	218	178.20	73	190.80	69
159.20	70	170.20	81	178.95	1529	191.20	140
160.05	280	172.00	93	180.00	1215	191.90	530
161.00	449	173.00	300	180.95	577	192.90	493
161.70	107	173.80	260	182.90	91	193.20	70
162.00	111	174.05	236	183.90	109	194.80	120
163.90	69	175.00	806	184.90	696	196.00	1958
164.90	193	176.10	408	186.05	6438	198.00	48461
165.10	118	176.80	119	187.00	1789	199.00	3340

Average of 2.493 to 2.505 min.: 4m66765.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
200.05	262	209.95	184	225.85	165	241.00	79
200.80	96	211.10	453	227.05	2252	241.90	164
201.45	369	215.90	223	228.05	449	242.10	160
202.00	85	217.00	2260	228.90	426	242.95	473
202.95	258	218.00	363	229.90	73	244.10	5259
204.05	1770	221.00	2666	231.10	190	245.00	795
205.10	2876	221.70	436	233.90	87	246.00	723
206.10	10858	222.00	240	234.90	86	248.95	260
207.10	1338	223.00	708	235.90	73	252.95	314
208.05	286	224.10	5999	236.20	83	253.80	190
209.10	71	225.10	1563	237.00	102	255.00	25779

Average of 2.493 to 2.505 min.: 4m66765.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
256.05	3787	276.10	1679	316.00	217	346.05	154
257.10	238	277.05	822	320.80	96	351.70	73
258.00	1325	277.90	94	321.10	193	352.20	306
258.85	199	285.00	67	323.05	1172	352.90	132

M4M2974SIM.M Mon Jul 11 09:22:07 2016 MANAGER Page: 0

259.30	95	292.70	67	324.05	259	353.10	107
264.70	95	293.00	267	327.00	176	354.10	312
265.00	615	296.00	3030	331.90	101	365.05	1780
265.90	69	296.90	526	334.10	712	365.80	238
273.05	997	303.00	414	335.05	198	371.10	148
274.10	2604	314.10	96	341.00	69	372.10	626
275.10	11231	315.10	337	345.80	79	373.10	77

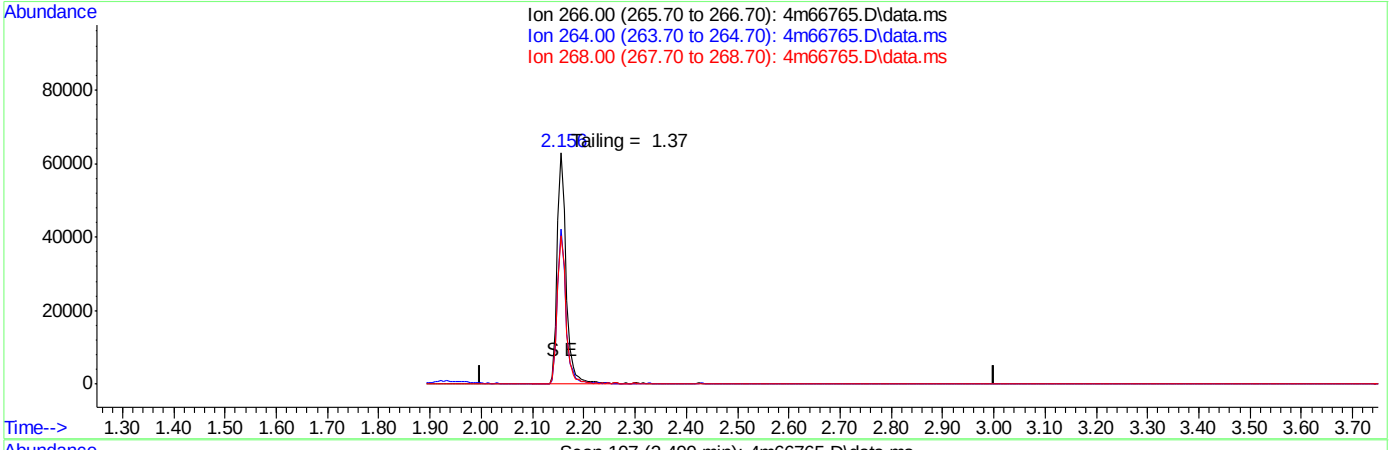
Average of 2.493 to 2.505 min.: 4m66765.D\data.ms
dftpp
Modified:subtracted

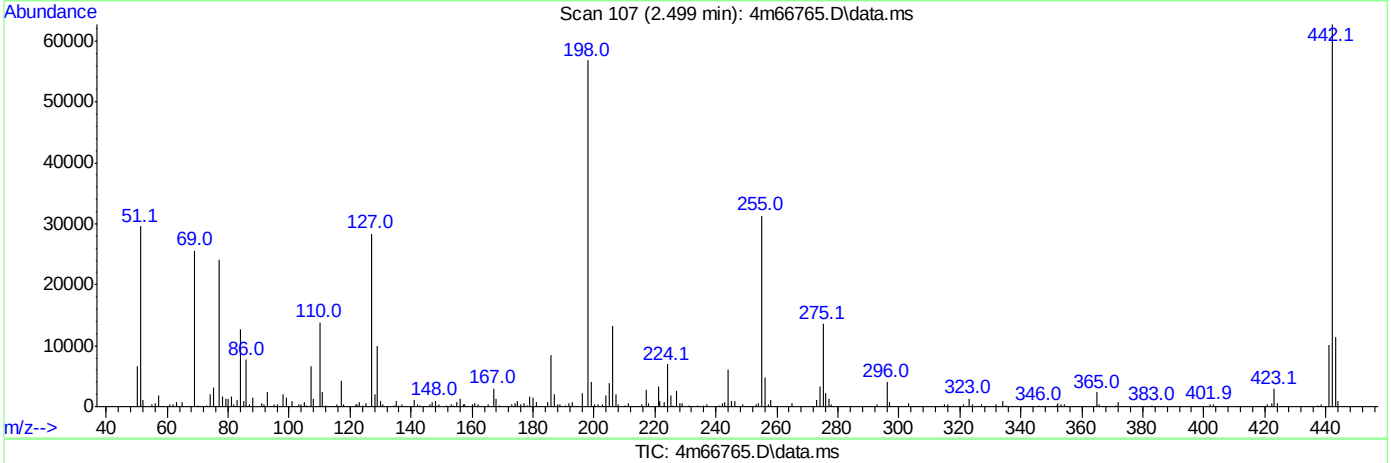
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
383.00	71	437.20	73				
401.90	221	438.30	121				
403.05	470	438.50	100				
404.10	69	439.40	154				
420.95	345	439.95	282				
422.00	149	441.10	7309				
422.15	237	442.10	46984				
423.10	2167	443.10	8891				
424.10	471	444.05	829				
434.10	73						
436.70	99						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3004\
Data File : 4m66765.D
Acq On : 11 Jul 2016 8:45 am
Operator : ashleyd
Sample : dftpp
Misc : op95277a,e4m3004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 08:51:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66765.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

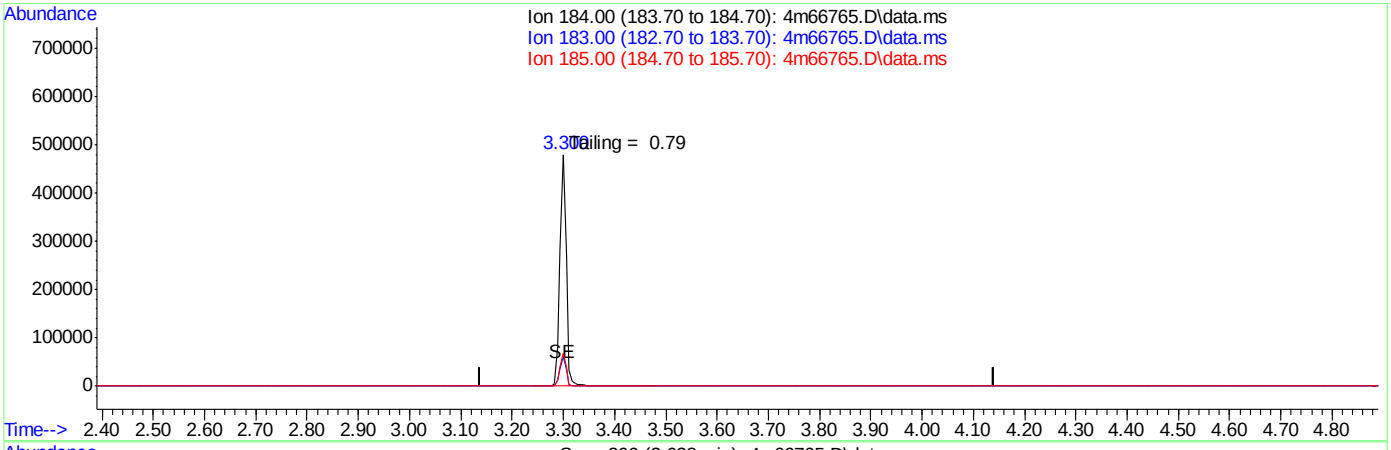
response 0

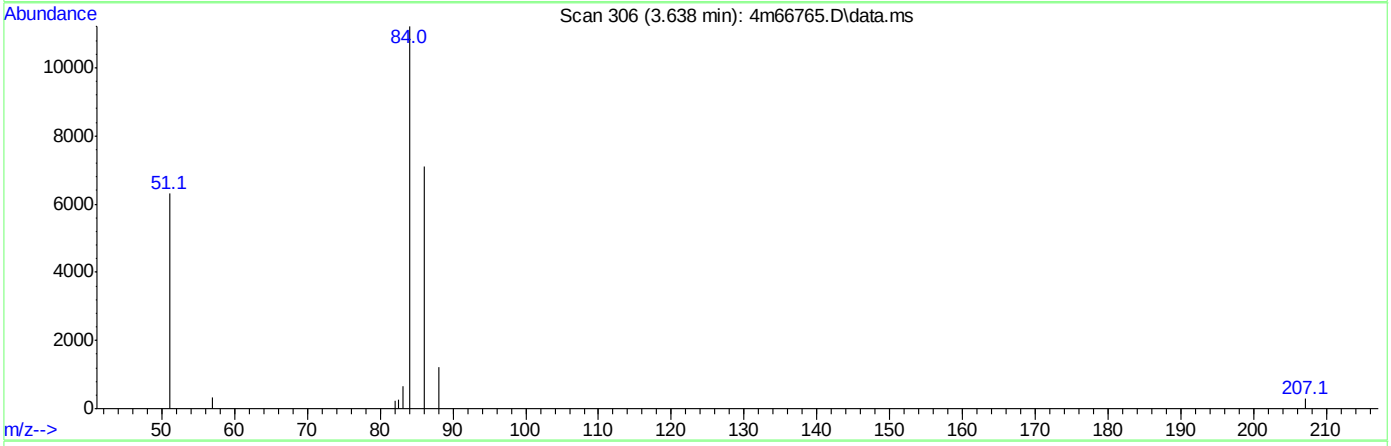
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3004\
Data File : 4m66765.D
Acq On : 11 Jul 2016 8:45 am
Operator : ashleyd
Sample : dftpp
Misc : op95277a,e4m3004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 08:51:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66765.D\data.ms

(2) benzidine (t)

3.640min (-3.640) 0.00ppb

response 0

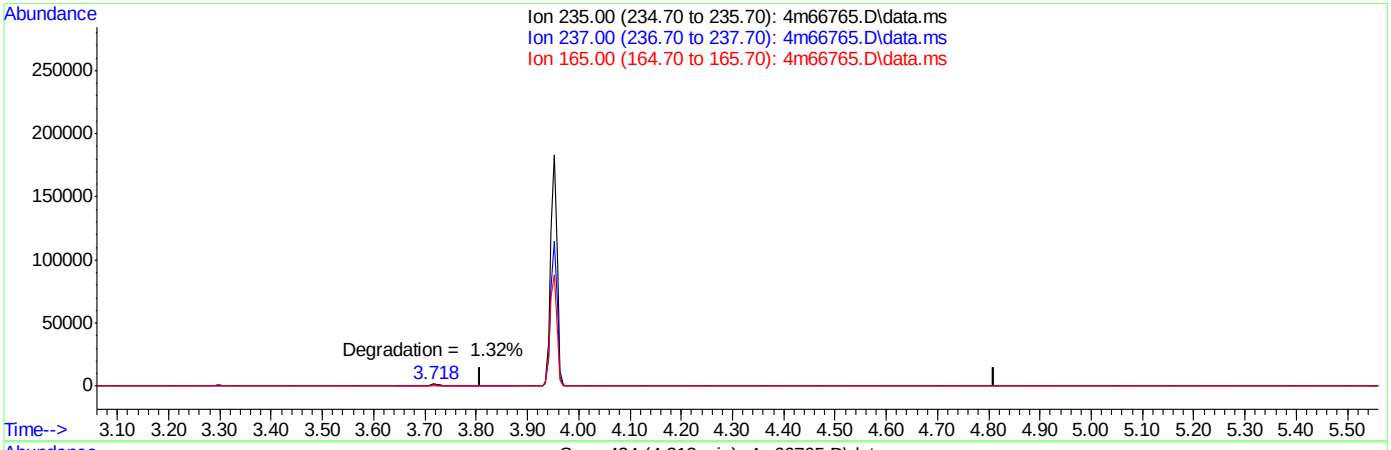
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

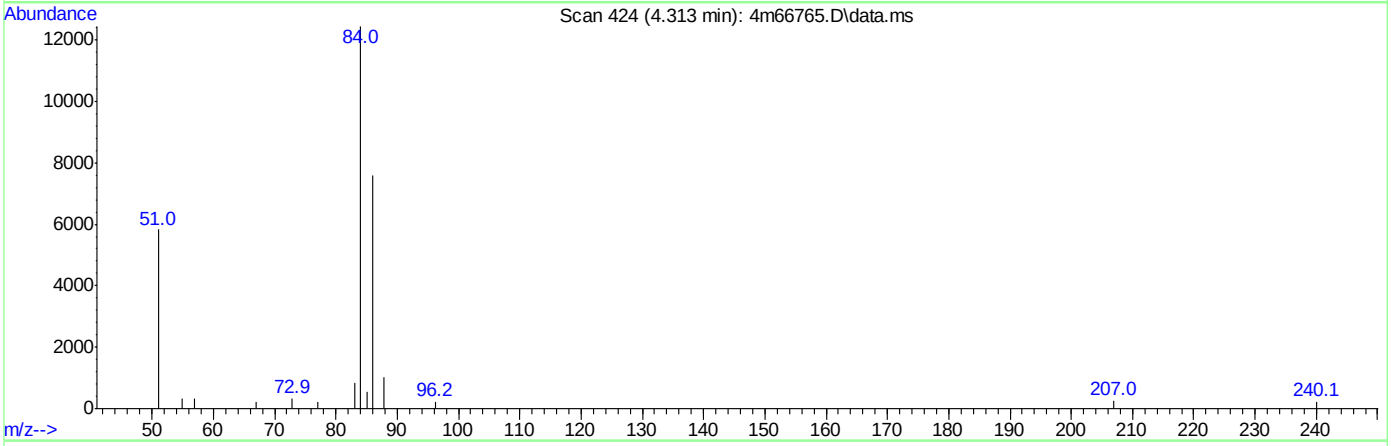
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3004\
Data File : 4m66765.D
Acq On : 11 Jul 2016 8:45 am
Operator : ashleyd
Sample : dftpp
Misc : op95277a,e4m3004
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 08:51:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 29 12:02:51 2013
Response via : Initial Calibration





TIC: 4m66765.D\data.ms

(3) ddt (t)

4.310min (-4.310) 0.00ppb

response 0

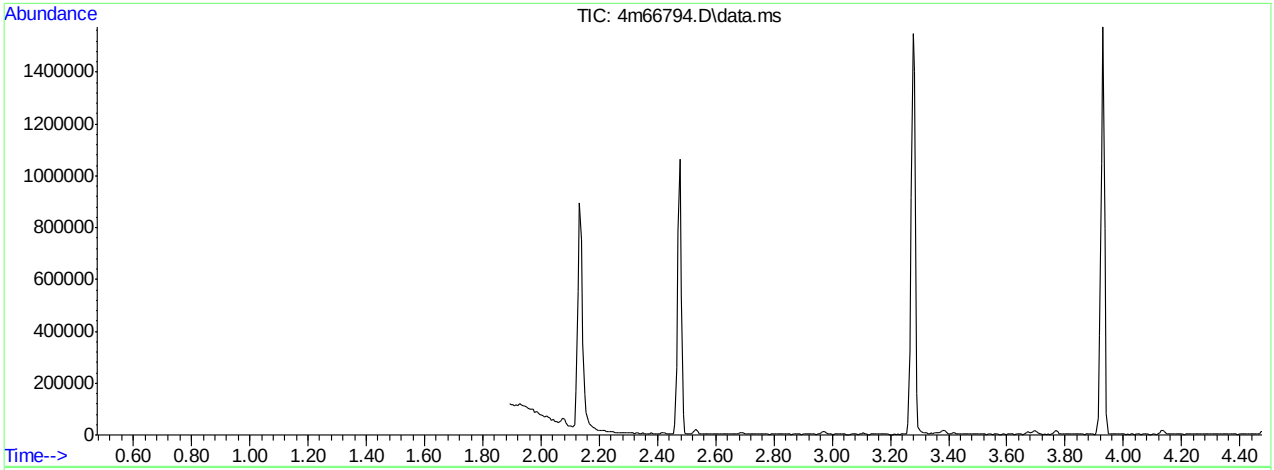
Ion	Exp%	Act%
235.00	100	0.00
237.00	63.70	0.00#
165.00	48.70	0.00#
0.00	0.00	0.00

SGS ACCUTEST JC23654

DFTPP

Data File : C:\msdchem\1\DATA\E4M3006\4m66794.D Vial: 1
Acq On : 12 Jul 2016 10:59 am Operator: hankc
Sample : dftpp Inst : GCMS4M
Misc : op95277a,e4m3006 Multiplr: 1.00
MS Integration Params: events3.e

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (ChemStation Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um



AutoFind: Scans 102, 103, 104; Background Corrected with Scan 97

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.1	41447	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	55.3	48685	PASS
70	69	0.00	2	0.6	287	PASS
127	198	40	60	54.5	47944	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	88008	PASS
199	198	5	9	6.5	5700	PASS
275	198	10	30	23.0	20246	PASS
365	198	1	100	3.0	2663	PASS
441	443	0.01	100	84.0	12486	PASS
442	198	40	100	84.6	74432	PASS
443	442	17	23	20.0	14859	PASS

4m66794.D DFTPP4M.M Tue Jul 12 14:12:11 2016 MANAGER

Average of 2.470 to 2.482 min.: 4m66794.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.10	10912	63.05	1615	77.05	43901	87.95	207
51.05	41447	63.85	178	78.10	3096	89.10	79
52.00	2216	65.00	913	79.00	2508	91.05	820
55.00	320	66.10	80	80.00	2146	92.05	760
55.95	1088	66.90	160	81.00	2992	93.00	4223
57.00	2673	69.00	48685	81.95	805	93.85	356
58.00	163	70.05	287	83.00	868	95.00	92
60.00	74	72.95	372	83.95	27	96.05	280
60.80	70	74.05	3709	85.10	527	97.00	100
61.05	476	75.05	6347	85.95	535	97.30	75
61.95	540	76.15	1694	86.95	377	98.00	3024

Average of 2.470 to 2.482 min.: 4m66794.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
99.00	2228	111.00	3484	123.05	1084	133.95	451
100.10	129	112.05	332	123.95	519	134.95	1275
101.05	1542	113.00	102	124.20	89	136.00	552
102.10	77	115.20	88	125.05	543	136.90	259
103.05	627	115.70	125	127.00	47944	137.10	414
104.05	1034	117.00	7295	128.05	3509	138.10	100
104.95	869	117.95	638	129.00	16906	138.90	90
105.90	149	119.00	69	130.00	1339	139.90	100
107.00	12463	119.90	77	131.05	303	141.00	1759
108.00	1811	121.10	76	131.90	77	142.00	774
110.00	25773	122.00	783	132.90	146	142.95	458

Average of 2.470 to 2.482 min.: 4m66794.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
143.90	84	154.00	565	164.35	206	174.05	880
145.80	106	155.05	1061	164.95	537	175.00	1658
146.05	212	156.05	1805	166.00	513	175.90	229
147.00	919	156.90	175	166.20	127	176.10	290
148.00	1938	157.30	190	167.05	4199	177.00	674
149.00	523	158.00	400	168.00	1592	177.85	219
150.80	103	159.05	185	168.95	264	179.05	2695
151.15	382	159.95	530	169.90	67	180.05	2014
151.90	118	161.00	999	170.75	227	181.00	794
152.80	211	161.85	259	172.00	358	182.00	141
153.00	479	163.20	70	172.95	563	184.10	307

Average of 2.470 to 2.482 min.: 4m66794.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
185.10	1679	196.05	3593	207.00	2627	217.00	4565
186.05	12050	198.00	88008	207.90	748	217.95	537
187.05	3221	199.00	5700	208.95	279	220.10	81
188.05	431	199.95	492	209.90	133	221.10	5740
188.90	535	201.10	74	210.35	375	222.00	190
189.10	124	201.50	795	210.70	346	223.05	1561
191.10	461	202.10	197	211.05	813	224.05	11257
191.95	986	202.95	581	211.70	73	225.10	2500
193.00	921	204.05	3011	213.10	76	225.90	126
194.10	329	205.10	5437	214.90	77	226.30	131
195.10	100	206.10	20523	216.00	420	227.05	4035

Average of 2.470 to 2.482 min.: 4m66794.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
227.95	728	240.90	118	251.00	119	265.00	1057
229.00	838	241.15	147	252.00	321	265.85	379
230.10	68	242.05	434	252.90	182	267.80	102
231.05	431	242.60	167	253.30	147	269.90	71

DFTPP4M.M Tue Jul 12 14:12:07 2016 MANAGER Page: 0

233.00	78	243.10	590	255.10	46648	272.00	100
233.90	287	244.10	9451	256.05	6589	272.20	180
234.95	364	245.10	1249	257.00	681	273.05	1850
236.00	212	246.00	1488	258.05	2378	274.10	4109
236.90	103	247.05	347	259.00	411	275.10	20246
237.05	271	247.90	67	260.10	72	276.05	2741
239.20	122	248.95	377	263.60	67	277.00	1770

Average of 2.470 to 2.482 min.: 4m66794.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
277.95	417	303.05	724	323.05	2169	334.80	103
281.00	67	303.95	288	324.05	392	335.05	242
283.05	252	313.70	96	326.80	91	340.90	168
283.70	68	313.90	141	327.05	403	345.95	453
284.95	373	314.10	105	328.05	232	351.70	100
292.40	67	314.80	158	331.90	78	352.10	610
293.05	285	315.05	441	332.30	160	353.05	293
296.05	5288	316.05	407	333.00	98	353.50	99
296.70	124	321.00	197	333.20	92	354.05	680
297.05	603	321.50	85	333.60	168	355.10	189
298.10	78	322.40	91	334.10	1211	363.05	153

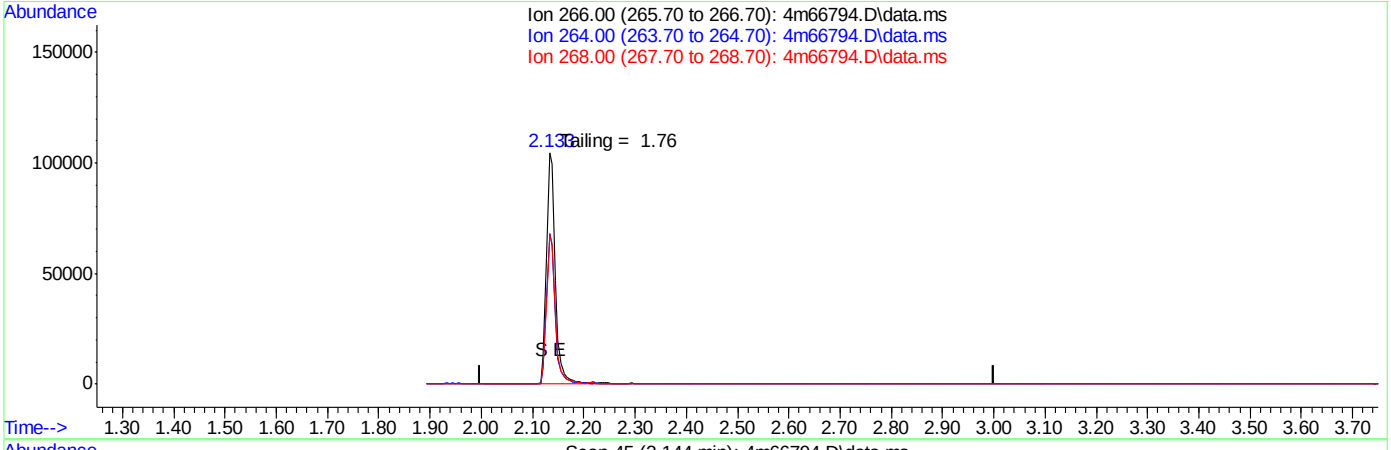
Average of 2.470 to 2.482 min.: 4m66794.D\data.ms
dftpp
Modified:subtracted

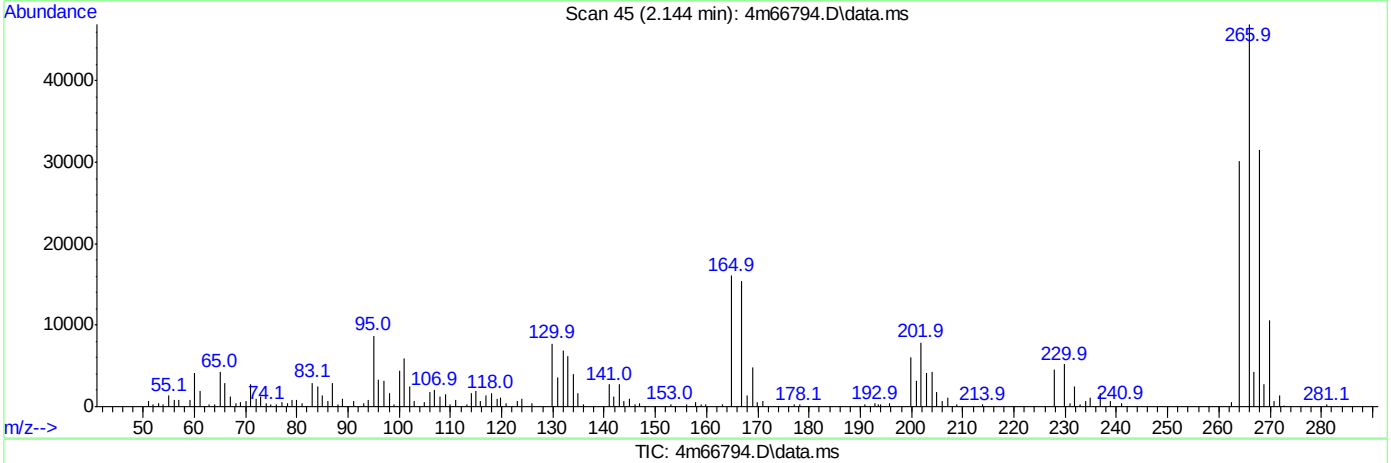
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
363.90	141	403.05	584	437.80	127		
365.05	2663	404.15	264	438.30	400		
365.85	322	421.00	552	438.80	167		
366.10	202	422.10	689	439.05	314		
370.70	81	423.10	4033	439.40	239		
371.10	182	424.10	699	439.80	332		
372.05	1229	434.30	87	441.10	12486		
373.05	295	435.30	69	442.10	74432		
383.00	284	436.40	68	443.10	14859		
389.90	110	437.15	250	444.05	1347		
402.10	404	437.50	112				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66794.D
Acq On : 12 Jul 2016 10:59 am
Operator : hankc
Sample : dftpp
Misc : op95277a,e4m3006
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 11:12:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu May 09 19:13:56 2013
Response via : Initial Calibration





TIC: 4m66794.D\data.ms

(1) pentachlorophenol (t)

2.500min (-2.500) 0.00ppb

response 0

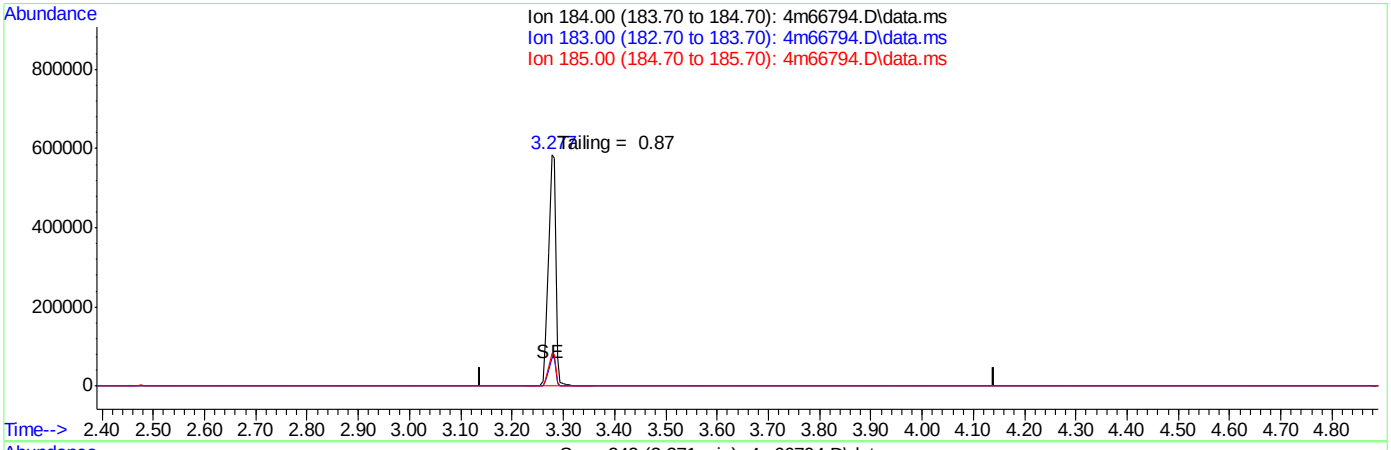
Ion	Exp%	Act%
266.00	100	0.00
264.00	58.00	0.00#
268.00	62.00	0.00#
0.00	0.00	0.00

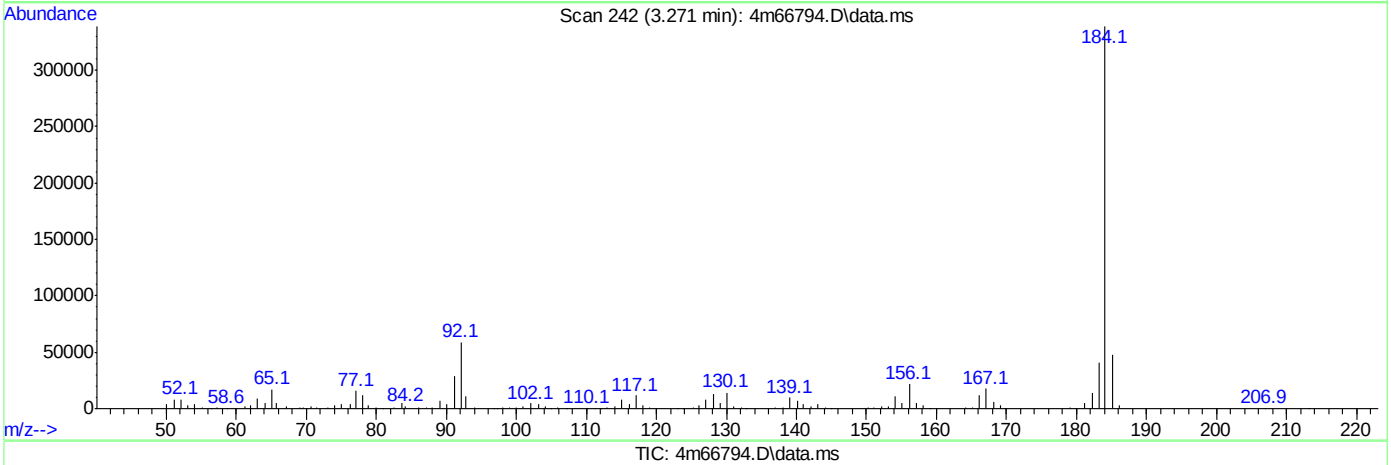
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66794.D
Acq On : 12 Jul 2016 10:59 am
Operator : hankc
Sample : dftpp
Misc : op95277a,e4m3006
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 11:12:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu May 09 19:13:56 2013
Response via : Initial Calibration





(2) benzidine (t)

3.640min (-3.640) 0.00ppb

response 0

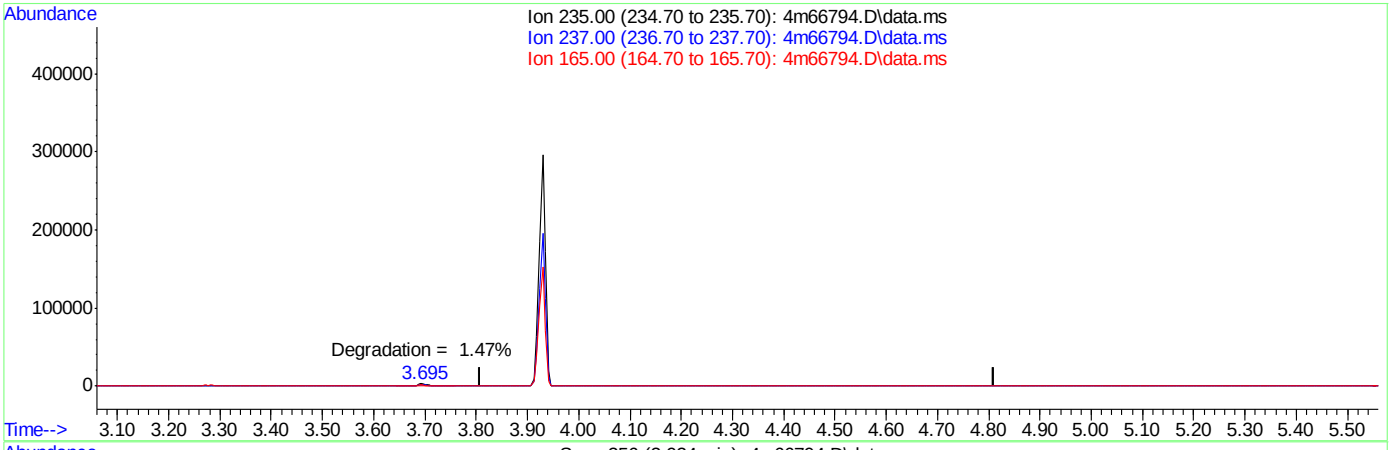
Ion	Exp%	Act%
184.00	100	0.00
183.00	10.60	0.00#
185.00	13.40	0.00#
0.00	0.00	0.00

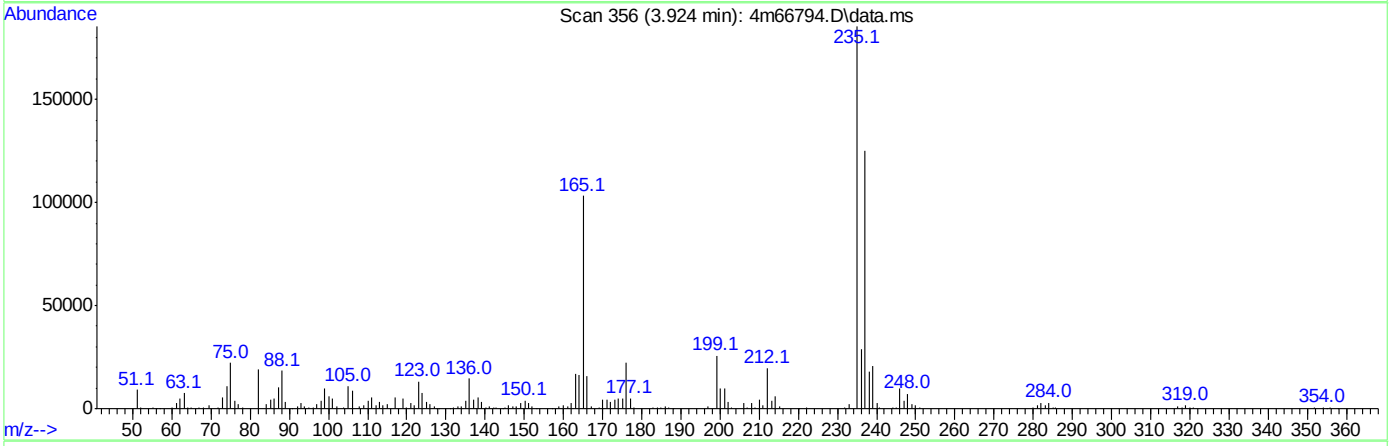
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66794.D
Acq On : 12 Jul 2016 10:59 am
Operator : hankc
Sample : dftpp
Misc : op95277a,e4m3006
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 11:12:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Thu May 09 19:13:56 2013
Response via : Initial Calibration





TIC: 4m66794.D\data.ms

(3) ddt (t)

4.310min (-4.310) 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	63.70	0.00#
165.00	48.70	0.00#
0.00	0.00	0.00

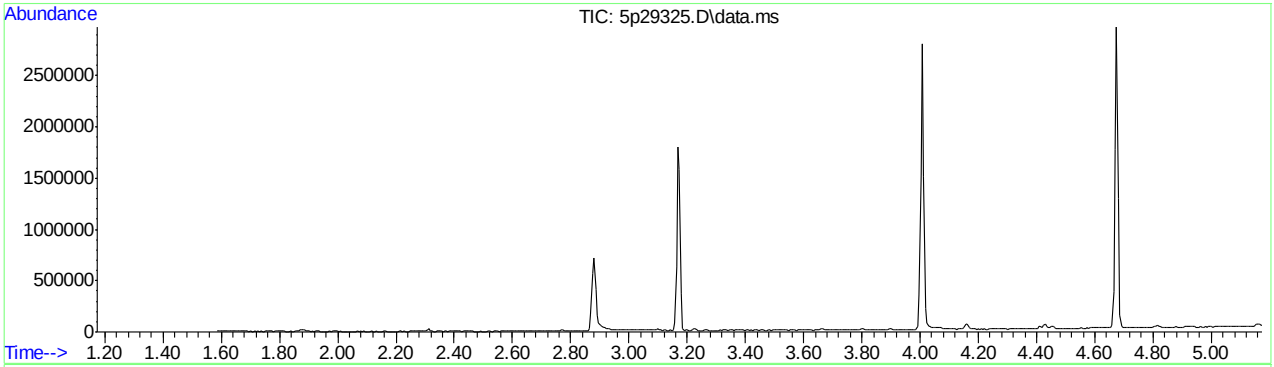
SGS ACCUTEST JC23654

DFTPPR

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29325.D
Acq On : 1 Jul 2016 11:45 am
Operator : kristis
Sample : dftpp
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015



AutoFind: Scans 297, 298, 299; Background Corrected with Scan 292
AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.1	50347	PASS
68	69	0.00	2	1.1	647	PASS
69	198	0.00	100	40.4	56271	PASS
70	69	0.00	2	0.4	208	PASS
127	198	40	60	54.7	76180	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	139298	PASS
199	198	5	9	6.2	8642	PASS
275	198	10	30	25.1	34972	PASS
365	198	1	100	3.1	4350	PASS
441	443	0.10	100	84.3	20591	PASS
442	198	40	100	93.5	130277	PASS
443	442	17	23	18.7	24412	PASS

SGS ACCUTEST JC23654

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	274	53.05	306	67.10	83	79.10	3825
38.15	603	54.15	145	68.10	647	80.10	3097
39.10	3867	55.10	356	69.10	56271	81.10	4315
40.10	92	56.10	1470	70.05	208	82.10	945
41.10	56	57.10	3561	71.10	101	83.00	1011
42.05	24	58.10	268	73.10	83	84.00	42
45.05	11	61.05	595	74.10	5619	85.10	564
49.10	451	62.10	692	75.10	8714	86.00	1152
50.10	12590	63.10	2010	76.10	2899	87.00	596
51.10	50347	64.10	230	77.10	61997	88.00	285
52.10	2400	65.10	1163	78.10	4335	89.10	98

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.10	1164	102.05	226	113.05	226	123.05	2040
92.00	926	103.05	773	115.05	53	124.05	890
93.00	6691	104.05	1757	116.10	1009	125.05	986
94.10	486	105.05	1494	117.05	12694	127.10	76180
95.05	100	106.00	213	118.05	865	128.05	5842
96.10	132	107.10	19940	119.00	189	129.05	28398
97.20	238	108.10	3255	119.20	66	130.00	2415
98.00	4682	109.10	99	120.00	180	131.05	576
99.10	4002	110.05	37562	120.15	179	132.10	373
100.05	391	111.05	5399	121.05	214	133.10	155
101.10	2836	112.10	844	122.00	1279	134.00	788

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.05	2166	145.05	274	155.05	1742	166.00	957
136.00	697	146.00	678	156.10	3096	167.00	6445
137.05	1201	147.10	2004	157.10	772	168.05	3004
137.95	313	148.05	3609	158.00	570	169.00	543
139.10	147	149.05	975	159.00	453	170.00	214
140.05	296	150.00	142	160.00	1179	171.00	290
141.05	3260	151.10	574	161.05	1537	172.00	563
141.80	82	151.60	211	162.10	548	173.00	845
142.05	1085	152.00	215	163.00	182	174.10	1276
143.10	919	153.05	898	163.80	254	175.10	2949
144.05	293	154.00	966	164.95	1178	176.10	825

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.00	1086	188.00	458	200.10	693	210.30	664
178.10	198	189.00	1269	201.00	179	211.05	1360
179.00	4522	190.05	234	201.30	331	212.00	104
180.05	3278	191.05	522	201.70	243	213.10	107
181.05	1612	192.05	1347	203.00	849	215.05	317
182.05	340	193.05	1854	204.05	4734	216.00	892
183.10	217	194.10	479	205.05	7953	217.00	8368
183.95	385	194.90	197	206.10	33778	218.05	1049
185.10	2672	196.05	4716	207.00	4446	219.00	152
186.10	18339	198.00	139298	208.00	1020	219.60	97
187.10	4658	199.00	8642	209.10	380	219.90	131

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.00	7753	232.00	100	244.10	16080	256.00	11072
222.10	241	234.00	349	245.05	2041	257.05	798
223.00	2168	234.95	557	246.00	2458	258.00	4035
224.05	18997	235.95	379	247.00	463	259.00	548

DFTPP5P.M Sun Jul 03 16:32:18 2016 RPT1 Page: 2

225.05	5048	237.05	653	249.05	680	259.70	70
226.10	766	238.00	92	250.80	112	260.05	150
227.00	7311	238.95	377	251.00	99	263.80	100
228.00	1187	240.05	277	252.05	271	264.95	1529
229.00	1625	241.10	491	252.75	229	265.90	263
230.05	253	242.00	833	253.05	423	267.75	138
231.05	806	243.10	1245	255.00	79706	270.10	77

Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
270.85	188	283.95	266	310.00	98	327.50	67
272.20	179	285.05	587	313.00	96	327.90	112
273.00	2448	291.90	82	313.90	425	328.10	161
274.00	6602	293.00	695	314.95	1083	332.10	142
275.00	34972	294.05	177	316.00	604	332.90	362
276.00	4847	296.00	9380	321.05	424	334.00	2055
277.00	2985	297.00	1238	321.90	113	335.00	413
277.90	390	300.95	176	322.10	88	340.90	108
281.00	70	302.05	173	323.05	3520	341.05	309
282.90	126	303.05	1246	324.00	523	345.80	211
283.10	136	304.00	356	327.00	516	345.95	424

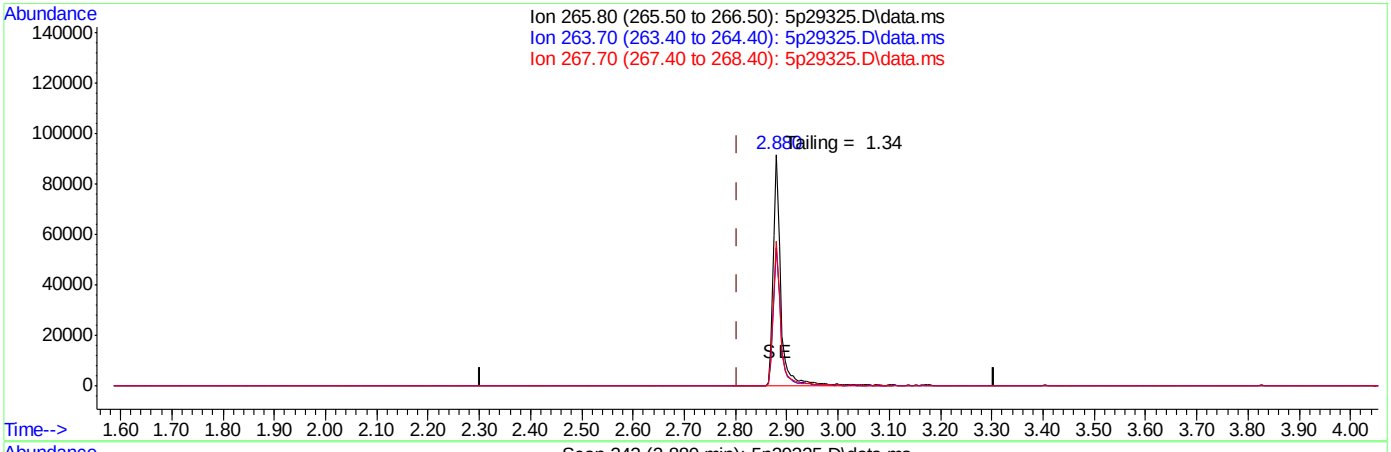
Average of 3.169 to 3.179 min.: 5p29325.D\data.ms
dftpp
Modified:subtracted

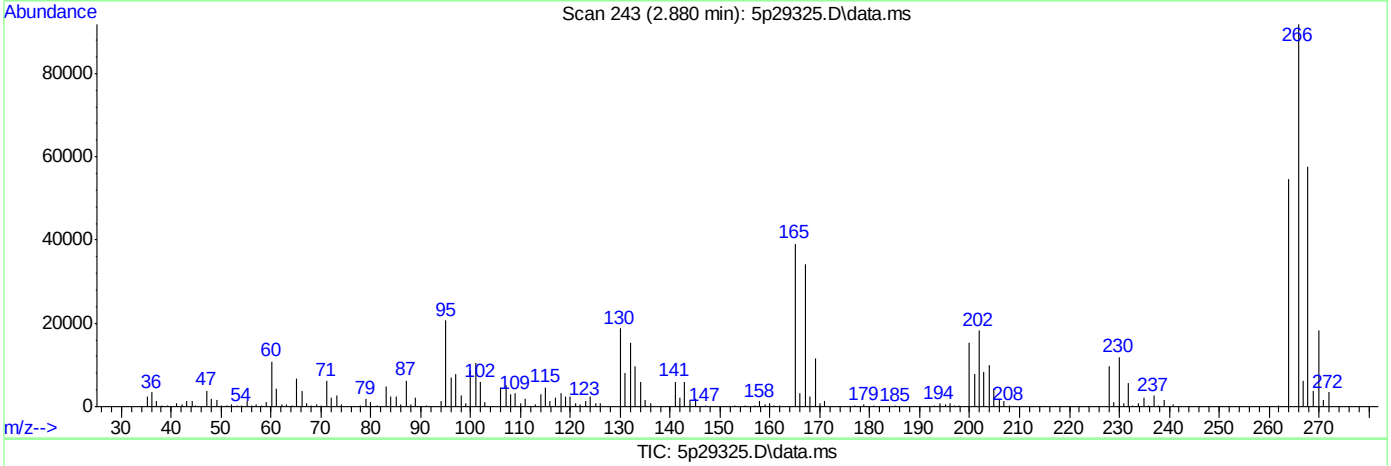
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
346.95	185	373.00	351	421.05	735	444.00	2165
352.00	1036	382.90	527	422.00	746		
352.70	69	383.90	93	422.95	7531		
353.00	622	389.95	290	424.00	1402		
354.05	1196	391.00	144	425.10	70		
354.95	181	392.10	82	432.30	91		
358.90	86	401.80	274	435.20	81		
364.95	4350	402.00	585	435.50	69		
366.00	718	402.90	1058	441.10	20591		
371.05	395	403.90	306	442.00	130277		
372.00	1918	420.90	511	443.00	24412		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29325.D
Acq On : 1 Jul 2016 11:45 am
Operator : kristis
Sample : dftpp
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 11:51:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





(1) Pentachlorophenol (MC)

2.880min (+0.076) 55.23ng

response 92080

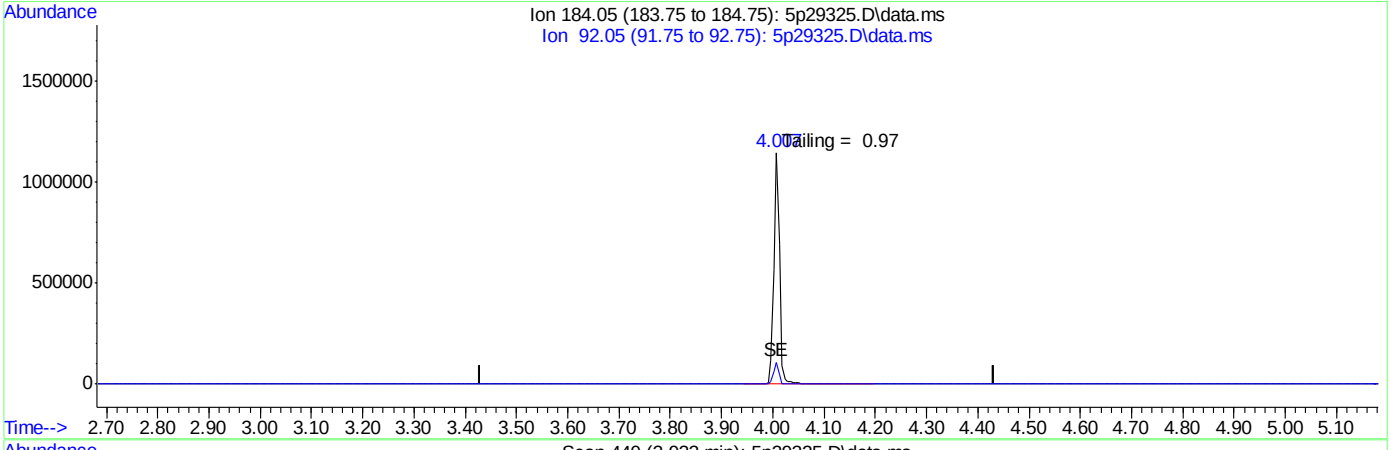
Ion	Exp%	Act%
265.80	100	100
263.70	64.70	59.28
267.70	64.60	62.60
0.00	0.00	0.00

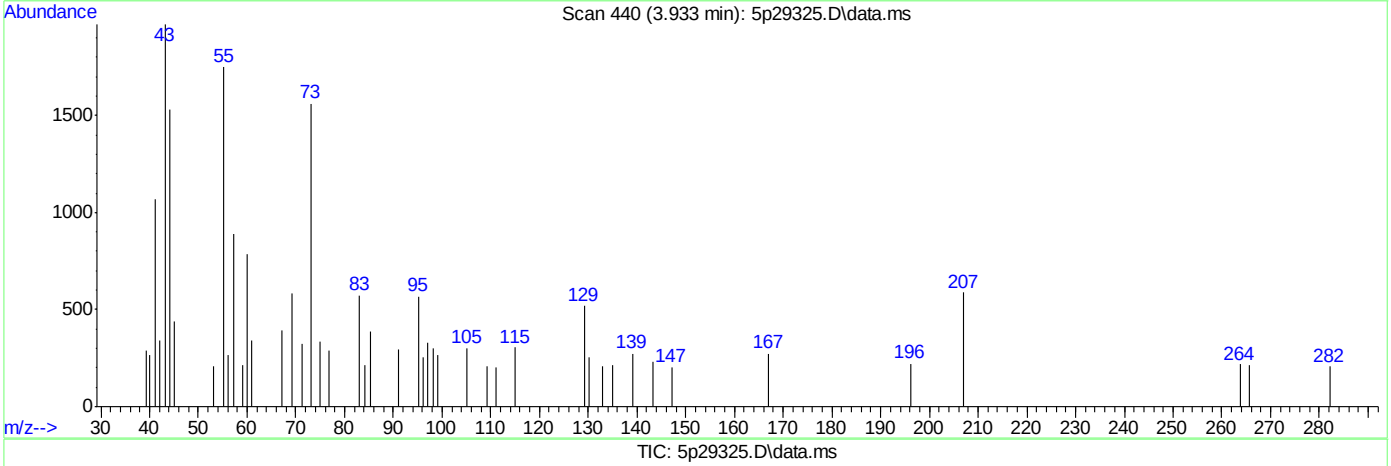
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29325.D
Acq On : 1 Jul 2016 11:45 am
Operator : kristis
Sample : dftpp
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 11:51:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29325.D\data.ms

(2) Benzidine (M)

3.931min (-3.931) 0.00ng

response 0

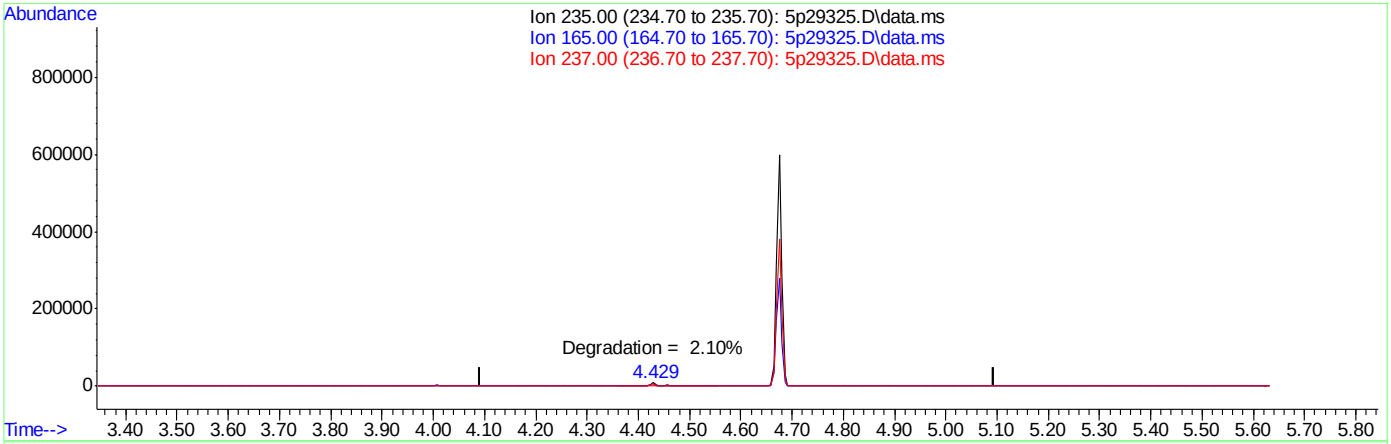
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

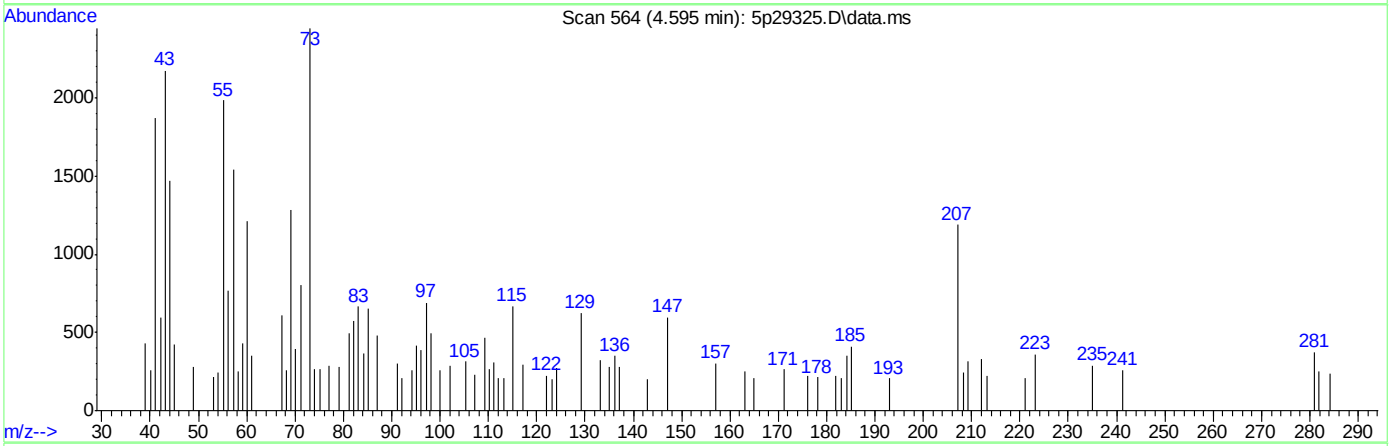
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29325.D
Acq On : 1 Jul 2016 11:45 am
Operator : kristis
Sample : dftpp
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 11:51:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29325.D\data.ms

(3) PP-DDT (MC)

4.594min (-4.594) 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

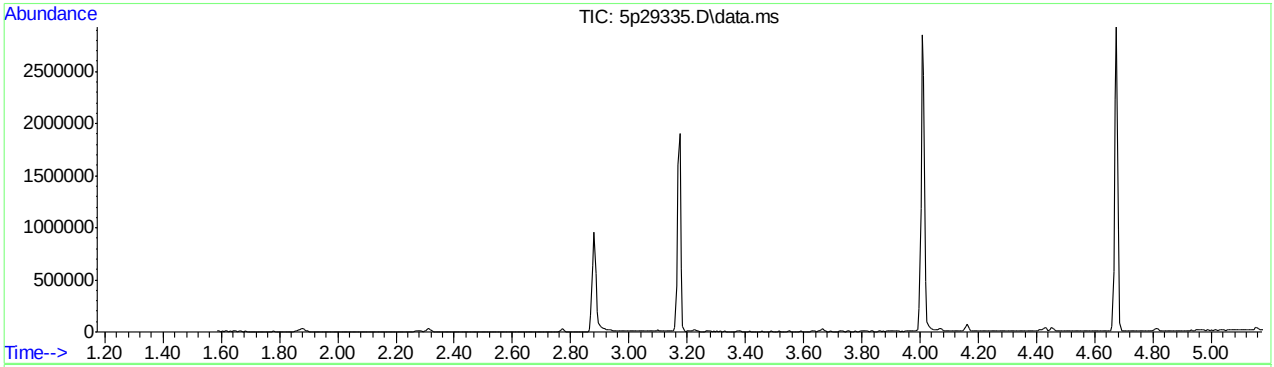
SGS ACCUTEST JC23654

DFTPPR

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29335.D
Acq On : 1 Jul 2016 4:47 pm
Operator : ashleyn
Sample : dftpp
Misc : op94797,e5p1497
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015



AutoFind: Scans 297, 298, 299; Background Corrected with Scan 292
AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.8	56036	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.0	62492	PASS
70	69	0.00	2	0.4	275	PASS
127	198	40	60	54.1	84560	PASS
197	198	0.00	1	0.3	527	PASS
198	198	100	100	100.0	156360	PASS
199	198	5	9	6.7	10436	PASS
275	198	10	30	24.7	38696	PASS
365	198	1	100	2.8	4365	PASS
441	443	0.10	100	75.2	21978	PASS
442	198	40	100	97.2	151904	PASS
443	442	17	23	19.2	29237	PASS

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	191	56.10	1844	70.00	275	82.10	1302
38.15	575	57.10	4109	71.05	249	83.10	1370
39.15	4159	58.05	176	73.10	385	84.00	50
40.00	40	60.05	365	74.10	6041	85.10	1117
45.10	79	61.10	769	75.10	9301	86.05	1380
49.15	684	62.10	618	76.15	3079	87.05	673
50.10	14083	63.10	2447	77.10	68858	88.00	259
51.05	56036	64.05	294	78.10	4782	89.20	81
52.10	2729	65.10	1287	79.10	3979	91.05	952
53.05	198	67.05	159	80.05	3511	92.05	1225
55.10	67	69.10	62492	81.10	4674	93.05	6309

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.10	561	106.10	288	119.00	98	131.95	296
95.00	344	107.10	21299	120.05	318	132.45	238
96.10	464	108.10	3628	122.05	1342	133.00	82
98.10	5290	110.05	43328	123.05	2235	134.00	755
99.10	4526	111.05	6114	124.10	1028	135.10	2551
100.05	356	112.05	842	125.10	927	136.00	1114
101.05	2959	113.05	167	127.10	84560	137.10	1318
102.10	72	114.90	105	128.05	6473	137.95	310
103.05	888	116.05	1058	129.00	31636	139.10	205
104.05	1679	117.00	13291	130.05	2774	140.05	354
105.00	1693	118.05	1102	131.00	648	141.05	3668

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.00	1046	150.15	195	161.05	1637	171.00	437
143.00	818	151.05	612	162.05	505	171.95	554
143.20	124	152.05	370	163.10	77	173.10	755
144.00	148	153.00	1340	163.95	223	174.10	1507
144.90	101	154.00	959	165.00	1570	175.10	2713
146.00	683	155.10	2097	166.10	1263	176.05	919
147.05	1733	156.10	3211	167.00	7376	177.00	1168
148.00	3689	157.10	781	168.05	3474	178.10	372
149.00	803	158.00	644	169.10	603	179.00	4685
149.20	86	159.00	555	169.90	131	180.10	3552
150.00	111	160.00	1031	170.10	194	181.10	1843

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
182.00	320	194.05	308	204.00	5005	214.00	71
184.05	592	195.00	182	205.10	8864	215.05	384
185.05	2728	196.05	5509	206.10	35680	215.95	673
186.10	20782	196.70	527	207.05	4581	217.00	8961
187.05	5383	198.00	156360	208.00	1208	218.00	1135
188.05	593	199.00	10436	209.00	321	219.20	95
189.00	1245	200.05	869	210.10	362	219.60	97
189.95	177	200.95	301	210.60	224	221.05	10328
191.00	804	201.50	666	211.00	1471	223.00	2336
192.00	1552	202.10	109	211.90	136	224.05	20505
193.05	1942	203.10	975	213.10	82	225.05	5081

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
226.10	386	237.00	646	248.10	83	258.00	4423
227.00	7445	238.00	165	249.00	531	259.05	660
228.00	1240	239.05	373	250.00	121	261.00	107
229.00	1654	239.95	215	250.80	76	264.00	303

229.95	296	241.05	324	251.00	81	265.00	1813
231.05	633	242.10	1116	252.00	99	266.00	505
232.00	67	243.10	1065	252.85	373	269.90	73
233.10	75	244.05	16570	253.15	278	271.00	187
234.05	569	245.05	1975	255.00	83936	272.05	308
235.00	589	246.00	2626	256.00	11942	273.00	2483
236.00	358	247.00	476	257.00	978	274.00	7043

Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
275.00	38696	293.00	803	315.00	1080	335.05	660
276.00	5485	294.10	248	315.95	594	341.05	449
277.00	2870	294.90	118	321.00	408	342.10	151
278.05	320	296.00	9064	321.80	91	346.00	663
279.20	72	297.00	1398	323.05	3609	346.90	79
283.00	384	301.95	199	324.00	749	352.00	1020
284.05	395	303.00	1305	327.00	595	353.00	641
285.00	678	304.00	359	328.00	332	354.00	1338
286.10	73	308.00	122	332.00	319	355.05	173
291.10	71	309.00	67	333.00	108	364.95	4365
292.00	113	314.00	374	334.00	2306	365.80	196

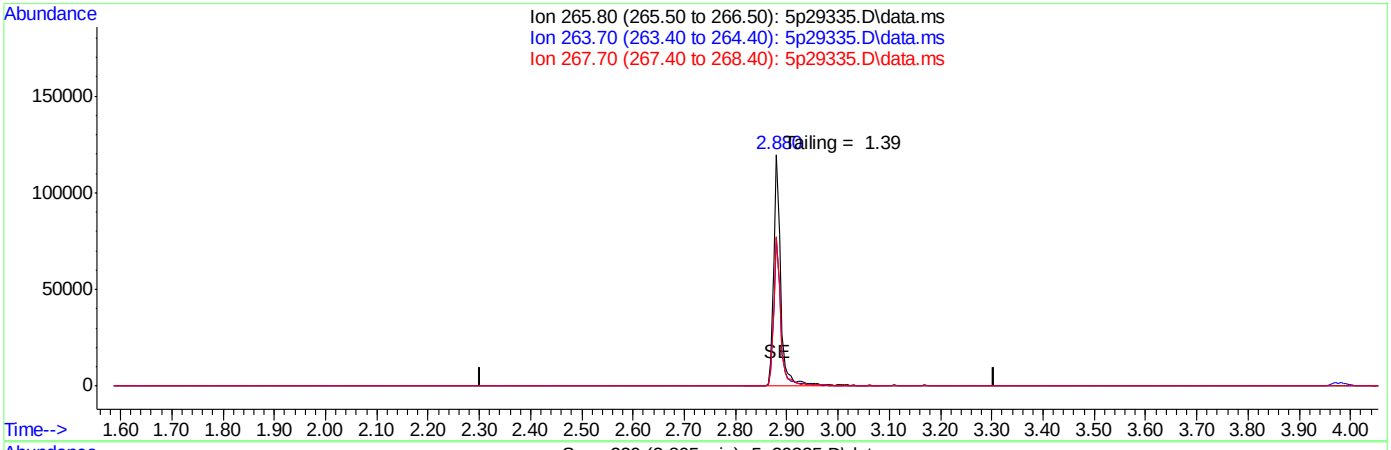
Average of 3.169 to 3.179 min.: 5p29335.D\data.ms
dftpp
Modified:subtracted

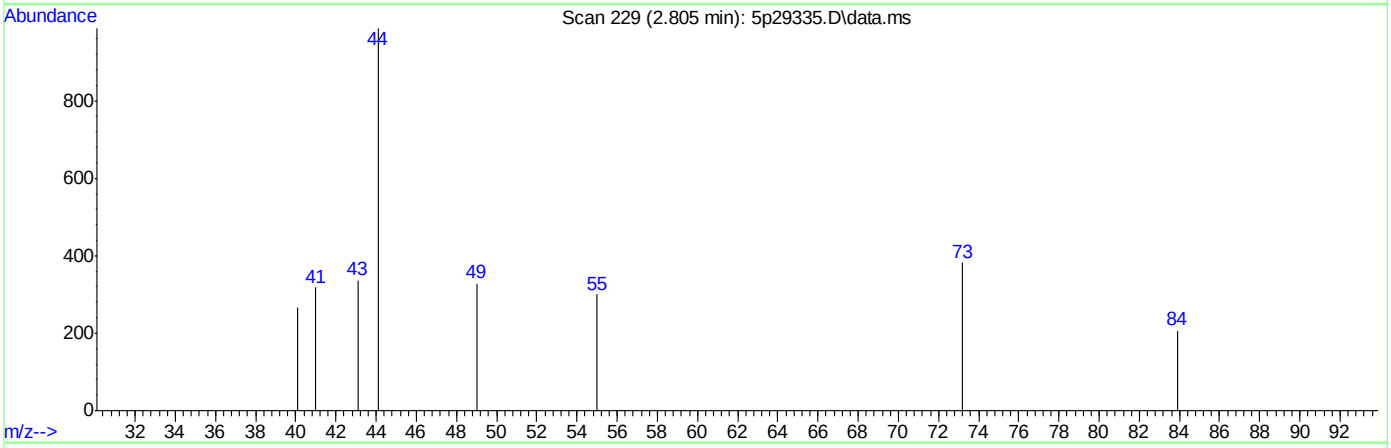
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
366.00	520	402.95	1533	441.05	21978		
371.05	332	403.95	428	442.00	151904		
372.05	2124	421.00	1286	443.00	29237		
372.90	486	422.05	1011	444.00	2721		
383.00	595	423.00	8361	444.90	69		
384.10	95	424.00	1648				
389.95	409	424.90	85				
391.10	222	430.40	72				
392.00	66	434.30	90				
400.90	77	435.10	69				
401.95	757	437.80	68				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29335.D
Acq On : 1 Jul 2016 4:47 pm
Operator : ashleyn
Sample : dftpp
Misc : op94797,e5p1497
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 16:53:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29335.D\data.ms

(1) Pentachlorophenol (MC)

2.804min (-2.804) 0.00ng

response 0

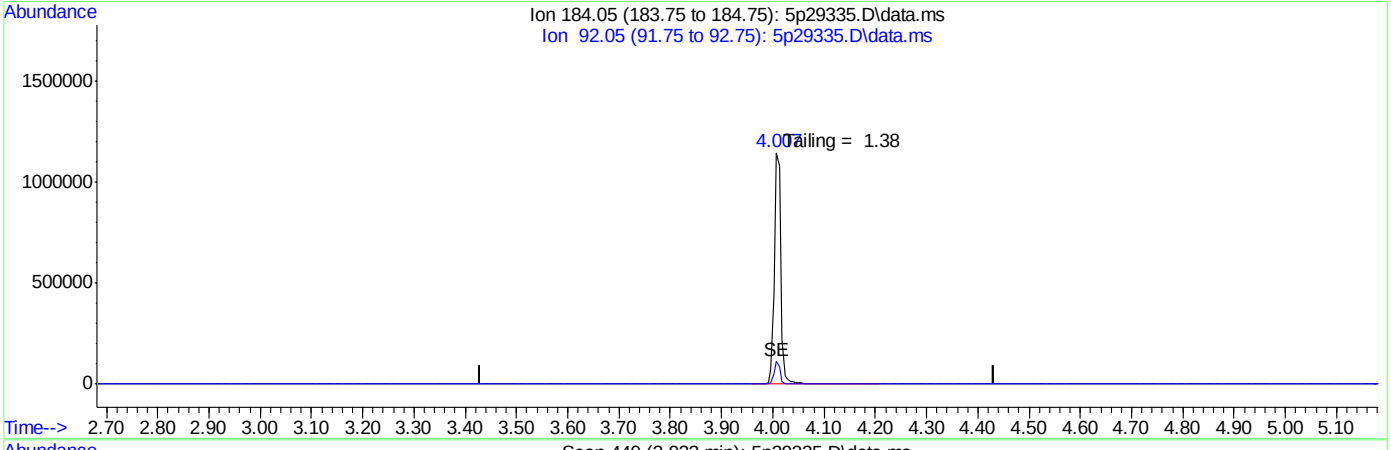
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

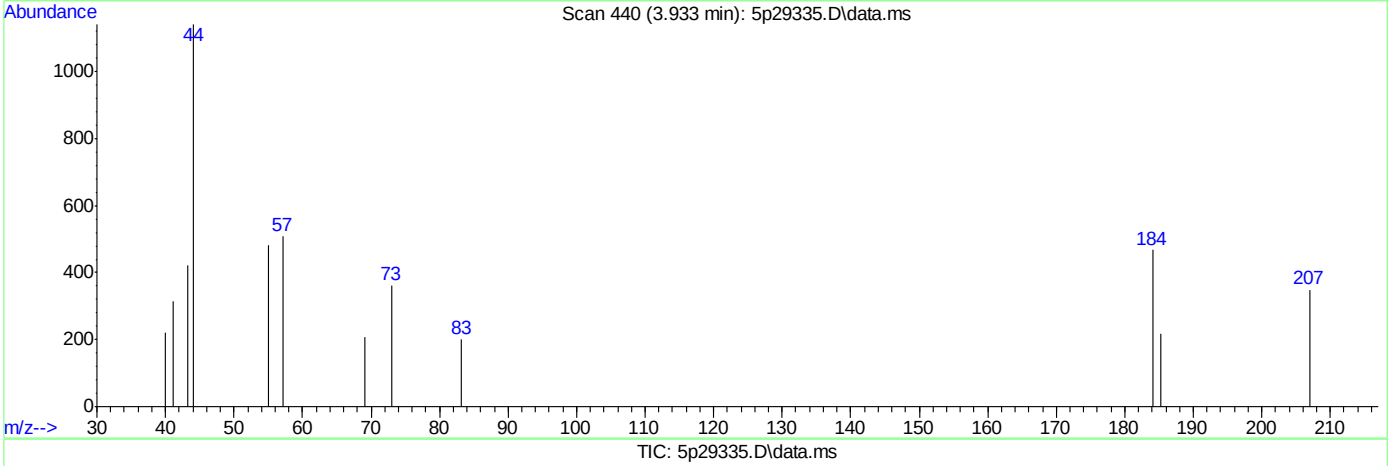
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29335.D
Acq On : 1 Jul 2016 4:47 pm
Operator : ashleyn
Sample : dftpp
Misc : op94797,e5p1497
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 16:53:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29335.D\data.ms

(2) Benzidine (M)

3.931min (-3.931) 0.00ng

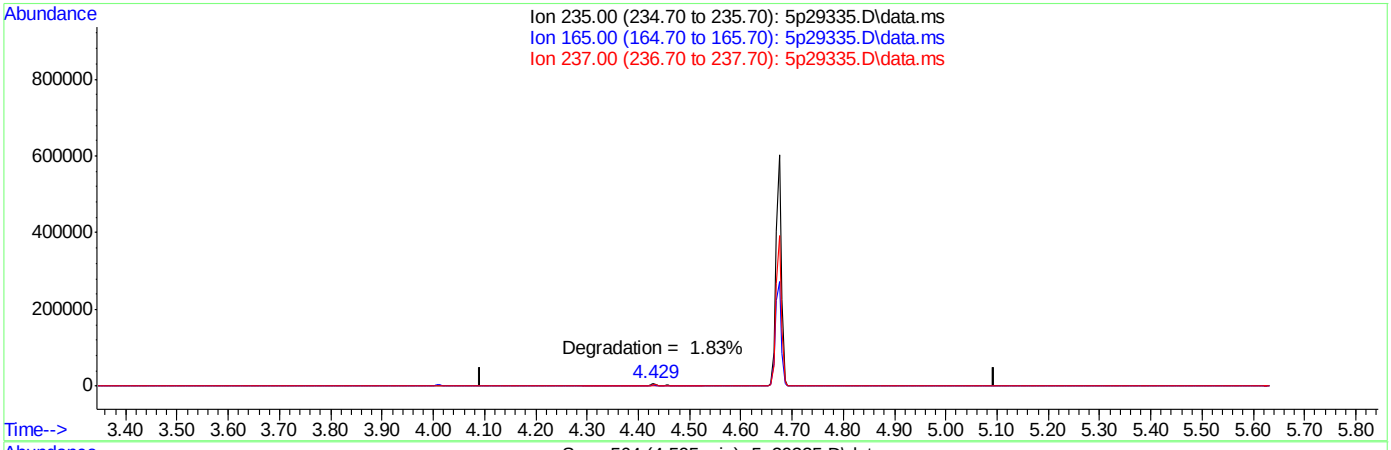
response 0

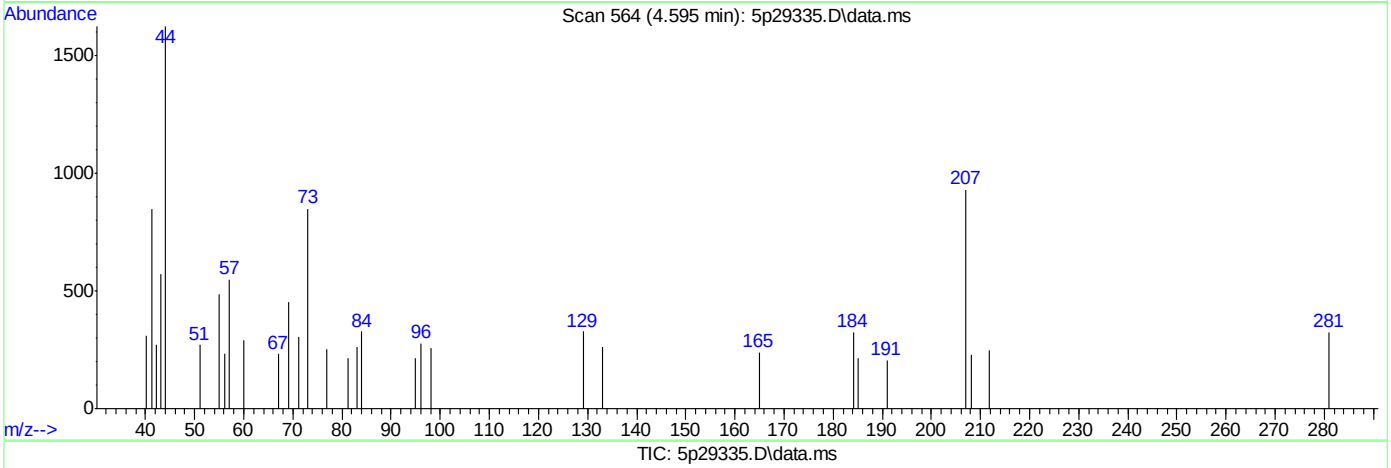
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29335.D
Acq On : 1 Jul 2016 4:47 pm
Operator : ashleyn
Sample : dftpp
Misc : op94797,e5p1497
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 01 16:53:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29335.D\data.ms

(3) PP-DDT (MC)

4.594min (-4.594) 0.00ppb

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

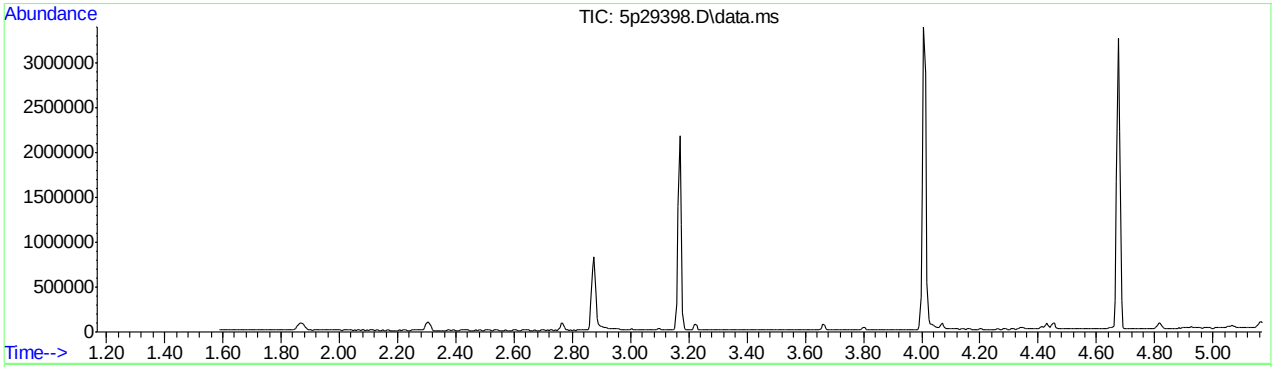
SGS ACCUTEST JC23654

DFTPPR

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29398.D
Acq On : 5 Jul 2016 9:09 am
Operator : ashleyd
Sample : dftpp
Misc : op94797,e5p1500
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015



AutoFind: Scans 296, 297, 298; Background Corrected with Scan 292
AUTOFIND via AUTOINTEGRATE

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.4	67454	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.8	77340	PASS
70	69	0.00	2	0.6	499	PASS
127	198	40	60	55.7	100623	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	180501	PASS
199	198	5	9	6.5	11817	PASS
275	198	10	30	23.7	42778	PASS
365	198	1	100	2.9	5269	PASS
441	443	0.10	100	80.7	25449	PASS
442	198	40	100	91.7	165608	PASS
443	442	17	23	19.1	31552	PASS

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	119	51.10	67454	64.00	374	77.10	85413
36.00	97	52.10	3263	65.10	1456	78.10	5403
37.00	394	53.00	210	66.10	79	79.05	4693
38.20	854	53.20	84	67.05	70	80.10	3706
39.10	5341	55.10	40	69.10	77340	81.05	5508
40.05	248	56.10	1996	70.05	499	82.00	1762
41.10	305	57.10	4853	71.15	200	83.10	1364
43.10	203	58.05	253	73.10	164	85.10	1087
45.15	64	61.10	1024	74.10	7007	86.00	1162
48.10	135	62.10	978	75.10	11410	87.10	746
50.10	16573	63.10	2670	76.10	4388	88.00	239

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
89.10	124	101.05	3256	112.90	175	127.10	100623
91.05	1340	101.90	85	116.05	1414	128.10	7564
92.05	1238	102.20	106	117.10	16148	129.05	36220
93.10	8264	103.05	1055	118.05	1410	130.05	3103
94.10	740	104.05	1784	119.10	231	131.05	610
95.10	129	105.10	1924	120.10	374	132.05	425
96.05	490	107.10	25665	121.00	31	133.05	230
97.00	215	108.10	4157	122.05	1608	134.05	1246
98.10	5799	110.05	50997	123.05	2955	135.10	2912
99.10	5213	111.05	7625	124.00	1264	136.05	1190
100.00	517	112.10	847	125.05	929	137.10	1361

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
137.80	204	147.05	2100	157.05	1124	167.10	8125
138.10	155	148.00	5081	158.00	767	168.05	3453
138.60	77	149.05	1040	158.95	616	169.05	654
139.30	110	150.15	358	160.00	1524	170.10	133
140.05	564	151.15	781	161.00	2027	170.40	76
141.05	4597	151.80	234	162.05	640	170.70	86
142.00	1524	152.00	197	162.95	305	171.00	231
143.05	1264	153.10	1349	163.40	73	172.00	764
144.05	256	154.05	1110	164.10	218	173.10	983
145.10	233	155.05	2396	165.05	1470	174.10	1833
146.00	806	156.10	3592	166.05	1442	175.05	3045

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.05	1176	187.10	6407	198.00	180501	208.05	1344
177.10	1815	188.15	678	199.00	11817	209.00	459
178.00	762	189.00	1579	200.05	981	210.05	564
179.00	5826	190.00	115	201.20	196	210.80	379
180.10	4520	191.10	686	201.55	796	211.00	1233
181.00	1969	192.10	1876	202.90	335	211.70	174
182.10	284	193.10	1882	203.10	947	214.10	71
182.90	81	194.00	487	204.10	5821	215.05	437
184.00	417	194.90	137	205.10	9349	216.10	360
185.05	2912	195.20	244	206.10	40261	217.00	9259
186.10	24264	196.05	6082	207.05	5595	218.00	1307

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
219.10	83	230.00	274	242.05	1124	252.95	512
219.60	69	231.00	784	243.00	1263	253.20	142
219.80	108	232.00	71	244.10	18482	255.00	93349
221.05	10677	232.90	118	245.10	2817	256.05	13557

DFTPP5P.M Wed Jul 06 12:23:30 2016 RPT1 Page: 2

223.05	2944	234.05	476	246.00	3160	257.00	1156
224.10	22426	235.00	673	247.00	627	258.00	4831
225.05	5383	236.10	467	247.90	145	259.00	572
226.10	457	237.05	756	249.00	568	261.00	74
227.00	9044	239.00	291	249.95	159	264.00	108
228.05	1526	240.00	277	250.90	75	265.00	2020
229.00	2220	241.05	623	252.10	147	266.05	384

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
267.70	78	279.00	109	296.00	10015	313.95	514
268.00	140	281.00	149	297.00	1505	314.95	1273
269.90	67	282.95	383	298.00	79	315.95	820
270.90	102	284.00	104	300.90	103	317.00	99
271.90	357	284.20	98	301.10	70	321.00	390
273.00	2896	285.05	554	303.00	1276	322.10	136
274.00	7373	289.00	68	303.90	133	323.05	4062
275.00	42778	292.00	123	304.15	252	324.00	766
276.05	5639	293.05	812	307.70	71	325.10	78
277.00	3274	294.00	121	308.10	70	326.95	745
278.00	573	295.00	141	310.00	67	328.05	432

Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
332.00	117	354.00	1232	389.95	296	424.05	2012
332.95	443	355.00	228	390.90	126	424.85	300
334.05	2582	359.05	144	391.10	99	428.40	79
335.05	816	364.95	5269	392.00	71	433.30	70
341.00	439	366.05	792	400.95	150	433.90	89
342.05	149	369.90	102	402.00	1036	435.80	82
346.05	830	370.95	259	403.00	1356	438.30	78
346.80	70	371.95	2313	404.00	540	441.00	25449
350.90	69	372.95	685	421.00	1121	442.00	165608
352.00	1134	383.00	609	422.05	1218	443.00	31552
353.00	1023	384.00	169	423.00	9198	444.00	2827

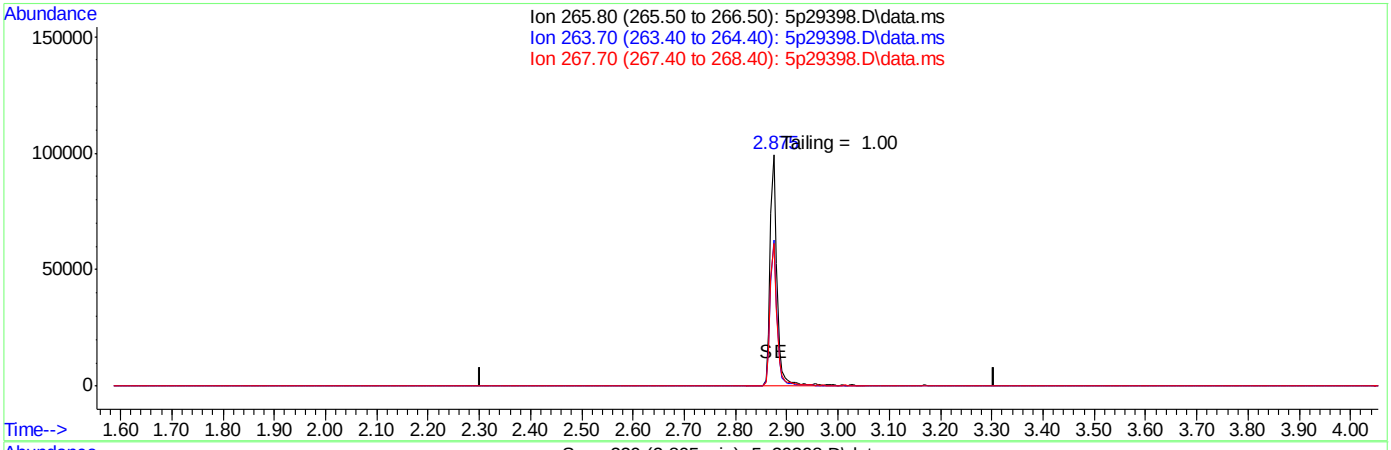
Average of 3.163 to 3.174 min.: 5p29398.D\data.ms
dftpp
Modified:subtracted

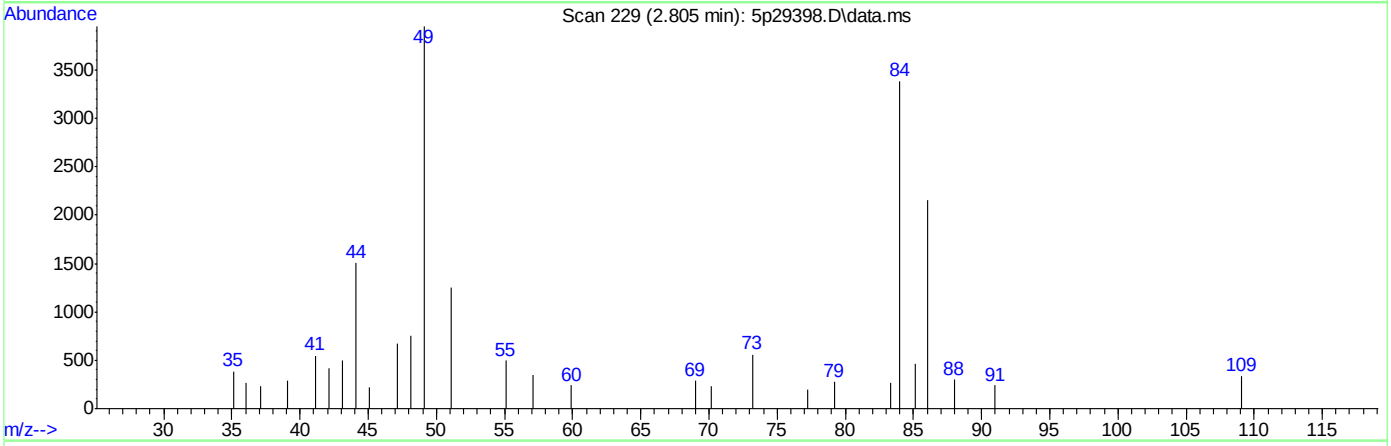
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
445.00	98						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29398.D
Acq On : 5 Jul 2016 9:09 am
Operator : ashleyd
Sample : dftpp
Misc : op94797,e5p1500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 09:14:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29398.D\data.ms

(1) Pentachlorophenol (MC)

2.804min (-2.804) 0.00ng

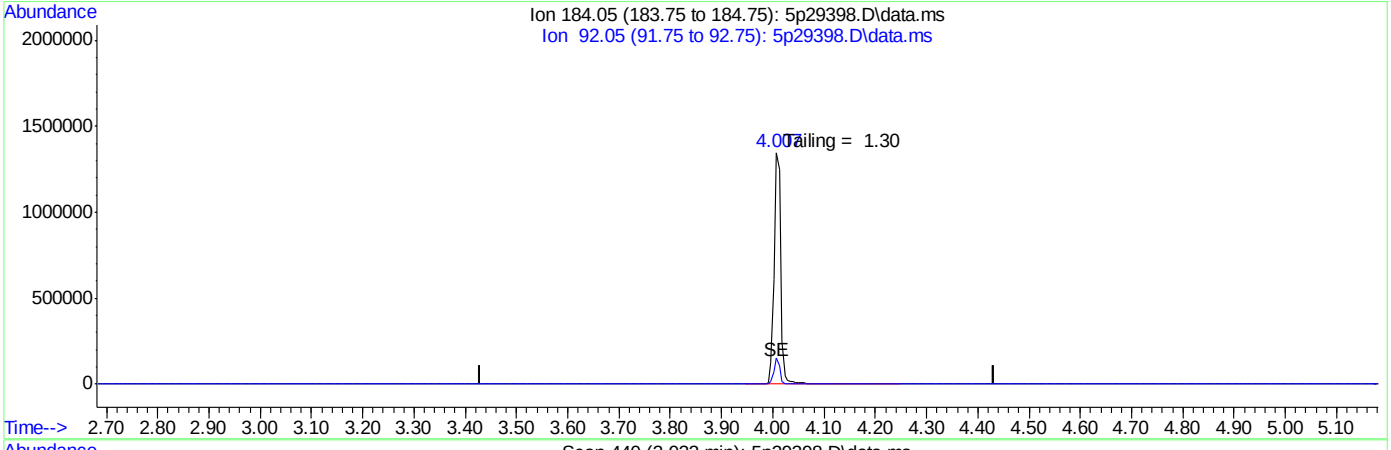
response 0

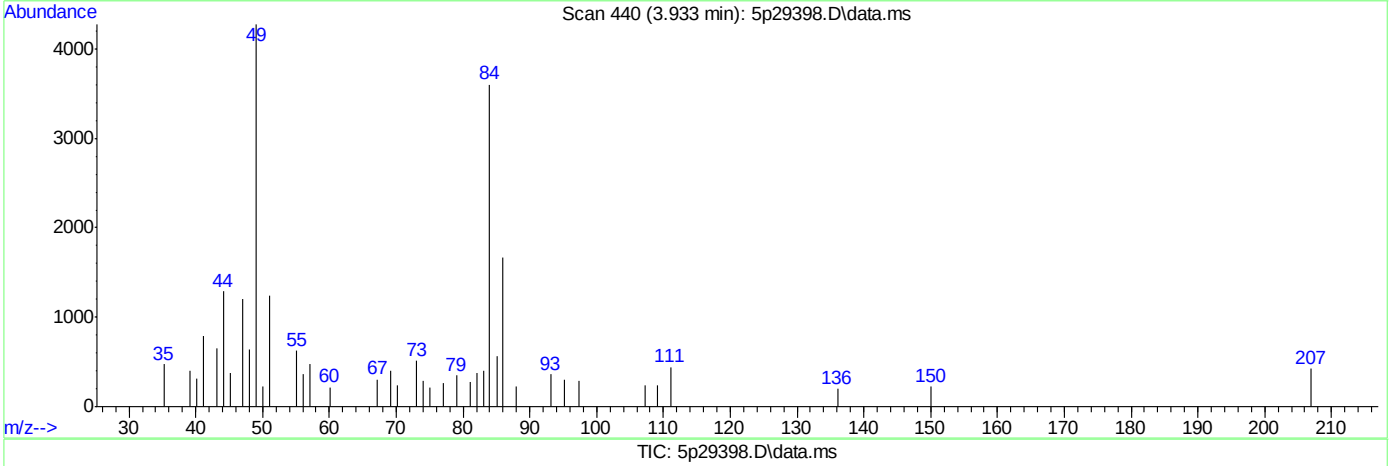
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29398.D
Acq On : 5 Jul 2016 9:09 am
Operator : ashleyd
Sample : dftpp
Misc : op94797,e5p1500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 09:14:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29398.D\data.ms

(2) Benzidine (M)

3.931min (-3.931) 0.00ng

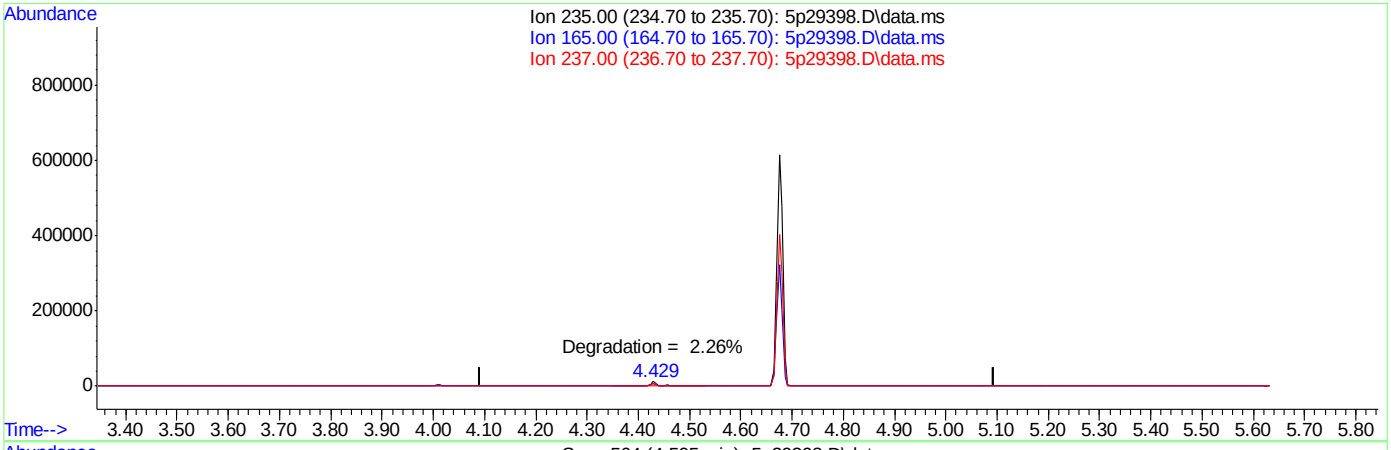
response 0

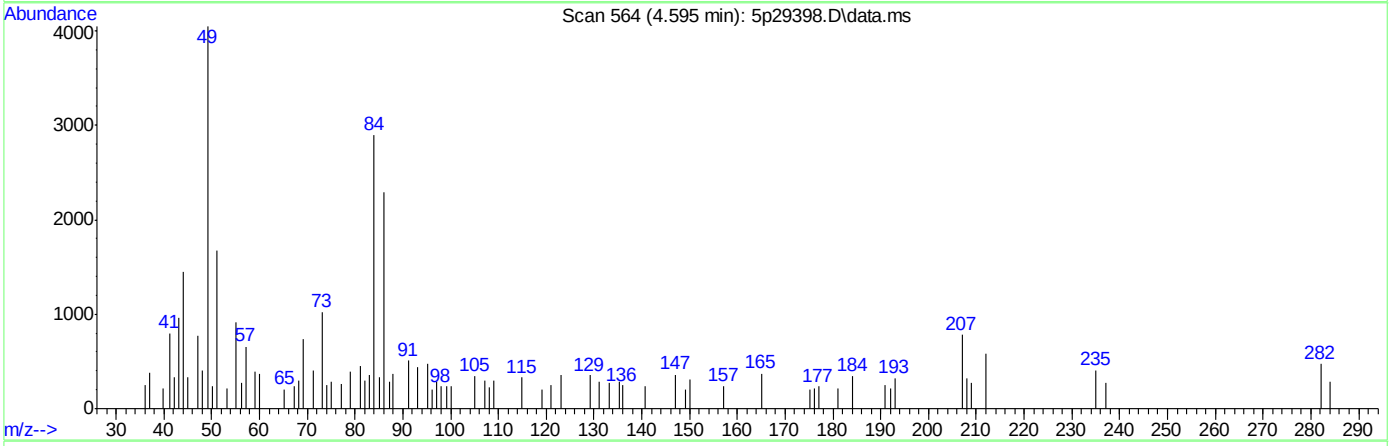
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29398.D
Acq On : 5 Jul 2016 9:09 am
Operator : ashleyd
Sample : dftpp
Misc : op94797,e5p1500
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 05 09:14:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29398.D\data.ms

(3) PP-DDT (MC)

4.594min (-4.594) 0.00ppb

response 0

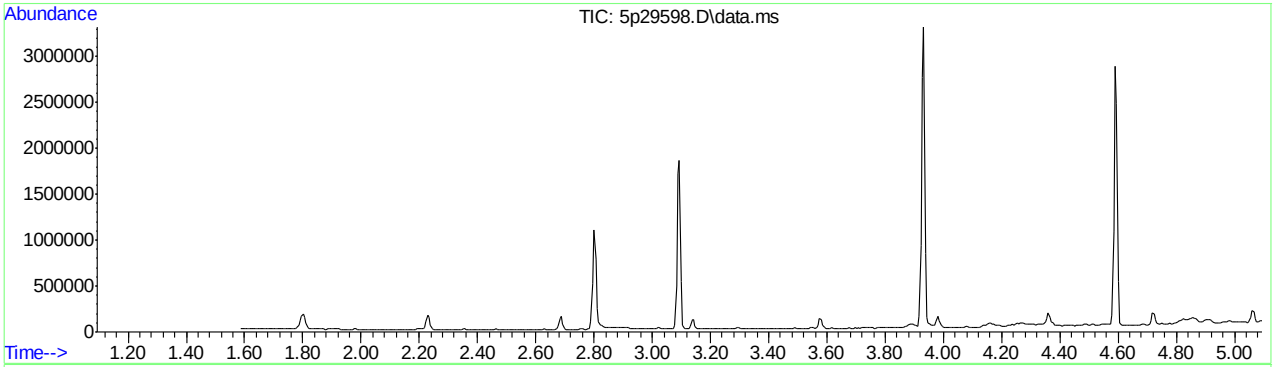
Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

DFTPPR

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29598.D
Acq On : 12 Jul 2016 4:05 pm
Operator : robertl1
Sample : dftpp
Misc : op95104,e5p1510
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
Last Update : Tue Aug 25 09:34:01 2015



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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.3	69875	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.5	73045	PASS
70	69	0.00	2	0.5	340	PASS
127	198	40	60	59.2	87437	PASS
197	198	0.00	1	0.8	1119	PASS
198	198	100	100	100.0	147576	PASS
199	198	5	9	6.8	10082	PASS
275	198	10	30	23.7	34907	PASS
365	198	1	100	2.6	3804	PASS
441	443	0.10	100	80.3	17638	PASS
442	198	40	100	76.7	113261	PASS
443	442	17	23	19.4	21962	PASS

Average of 3.089 to 3.099 min.: 5p29598.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	340	55.10	485	66.20	136	80.05	3540
38.15	991	56.10	1963	67.15	128	81.10	5287
39.15	5559	57.10	5079	69.10	73045	82.05	1363
40.10	37	58.10	213	70.05	340	83.10	1241
45.05	54	59.00	102	71.10	108	84.00	37
49.10	759	60.05	85	74.05	6455	85.10	963
50.10	18042	61.10	1062	75.10	11630	86.05	1578
51.10	69875	62.10	828	76.10	3665	87.10	781
52.10	3652	63.10	2547	77.10	77701	87.95	593
53.15	257	64.10	500	78.10	5068	89.05	212
54.20	112	65.05	1365	79.10	4567	91.10	1422

Average of 3.089 to 3.099 min.: 5p29598.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.80	113	103.10	1137	114.10	83	125.00	1123
92.10	1290	104.05	2018	115.05	305	126.00	103
93.10	8582	105.05	1584	116.15	1234	127.10	87437
94.05	492	106.10	497	117.05	15547	128.05	6904
94.40	91	107.10	23322	118.05	1406	129.10	32912
96.10	550	108.05	3708	119.10	303	130.10	3184
98.10	5558	110.10	44231	120.15	235	130.90	335
99.05	4954	111.10	7148	121.10	17	131.05	370
100.00	447	112.05	973	122.05	1343	132.00	100
101.10	3129	113.00	128	123.10	2434	132.20	127
101.95	229	113.15	181	124.10	1276	134.00	848

Average of 3.089 to 3.099 min.: 5p29598.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
135.05	2100	145.10	276	154.05	1218	162.05	634
136.05	1013	146.00	753	155.10	2309	163.00	316
137.05	1710	146.20	102	156.10	3355	164.00	277
137.90	212	147.05	1483	157.10	690	165.05	1407
138.10	202	148.05	4254	157.30	100	166.10	1093
139.05	189	149.05	646	157.70	93	167.00	7400
140.15	481	150.05	257	158.00	632	168.05	3475
141.10	3811	151.25	418	158.90	301	168.95	581
142.10	1340	151.70	351	159.10	256	169.90	129
143.05	1045	152.70	102	160.05	1339	171.10	309
144.10	331	153.00	1341	161.00	1502	172.00	648

Average of 3.089 to 3.099 min.: 5p29598.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.00	897	184.05	328	195.00	454	205.10	8438
174.00	1741	185.10	2476	196.05	4151	206.10	35911
175.10	2506	186.10	20556	196.75	1119	207.05	3961
176.05	899	187.05	5124	198.00	147576	208.00	935
177.05	1235	188.15	594	199.00	10082	209.05	130
177.90	233	189.00	1179	200.05	870	210.20	689
179.00	5415	190.20	84	201.30	321	211.05	1402
180.05	3902	191.00	509	201.55	614	211.70	102
181.00	1828	192.00	1744	202.20	77	212.05	291
182.05	382	193.05	1879	203.00	1122	213.10	79
183.00	88	194.10	724	204.10	5283	215.00	473

Average of 3.089 to 3.099 min.: 5p29598.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
215.30	126	225.90	229	235.00	613	247.00	647
216.00	771	226.10	115	236.00	411	248.80	194
217.00	7855	227.00	7376	236.95	581	249.00	428
218.00	1062	228.00	1131	238.95	243	250.10	362

DFTPP5P.M Wed Jul 13 09:56:51 2016 RPT1 Page: 2

219.10	95	229.00	1715	239.75	194	251.00	119
219.40	210	229.95	245	240.95	363	251.30	91
220.00	170	230.90	288	241.95	1044	252.05	548
221.05	7549	231.10	322	243.00	1342	253.05	665
223.05	2218	232.05	194	244.10	15601	255.00	76832
224.05	18779	233.10	110	245.05	2304	256.00	11372
225.05	4421	233.95	480	246.05	2507	257.00	818

Average of 3.089 to 3.099 min.: 5p29598.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
258.00	4114	274.00	5853	291.00	87	304.00	329
259.00	674	275.00	34907	292.10	166	307.80	67
261.00	181	276.00	4359	293.05	645	312.00	87
263.60	71	277.00	2683	293.70	84	313.00	169
263.95	285	277.70	108	294.10	123	314.00	409
265.00	1360	278.00	455	296.00	8709	314.80	323
265.95	328	282.00	76	296.70	208	314.95	812
270.80	67	283.15	435	297.05	1181	316.05	665
271.10	73	284.10	74	301.80	167	317.15	193
272.00	170	285.00	452	302.80	176	320.70	80
273.00	2328	289.90	85	303.05	978	321.00	294

Average of 3.089 to 3.099 min.: 5p29598.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
321.90	70	334.05	2150	361.10	114	400.90	80
322.20	74	335.00	522	365.00	3804	402.00	651
323.05	3266	335.70	69	366.00	757	402.95	984
324.10	586	336.10	92	370.90	226	404.10	398
326.95	511	340.95	186	371.10	99	414.40	89
327.50	121	346.00	769	372.10	1612	421.00	844
328.10	237	346.95	167	373.00	491	421.80	258
332.00	184	352.05	727	383.00	383	422.00	176
332.80	127	353.05	593	386.10	71	423.00	5903
333.10	102	354.00	1058	391.00	66	423.70	211
333.30	182	355.10	75	392.00	110	424.05	1096

Average of 3.089 to 3.099 min.: 5p29598.D\data.ms
dftpp
Modified:subtracted

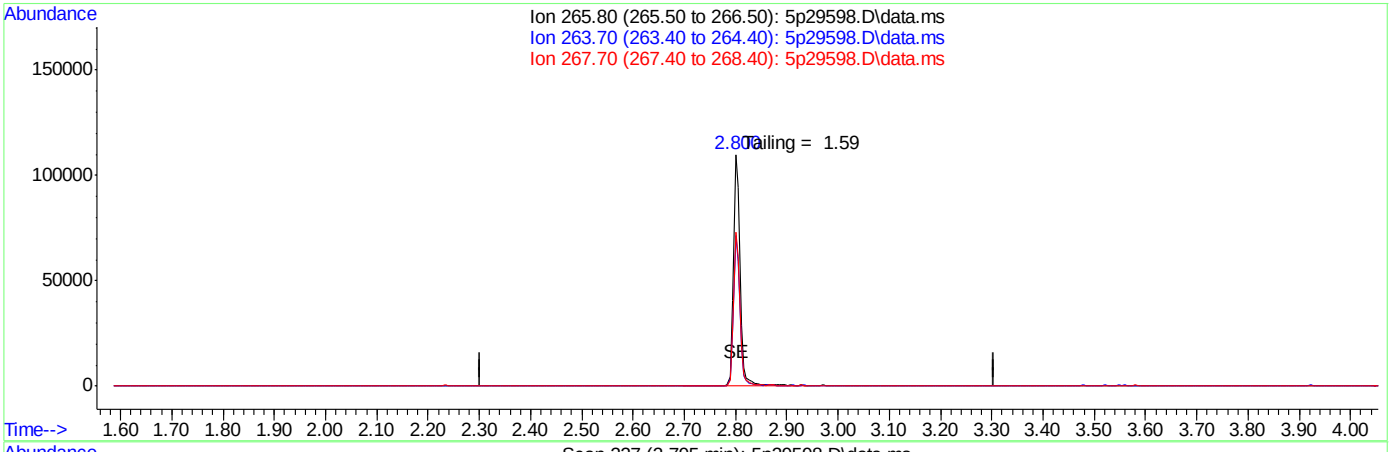
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
425.00	98	441.05	17638				
428.00	81	442.00	113261				
428.80	159	443.00	21962				
429.50	137	444.00	2388				
430.80	79	444.80	92				
431.00	82						
431.90	125						
432.50	111						
433.10	120						
433.90	109						
435.00	116						

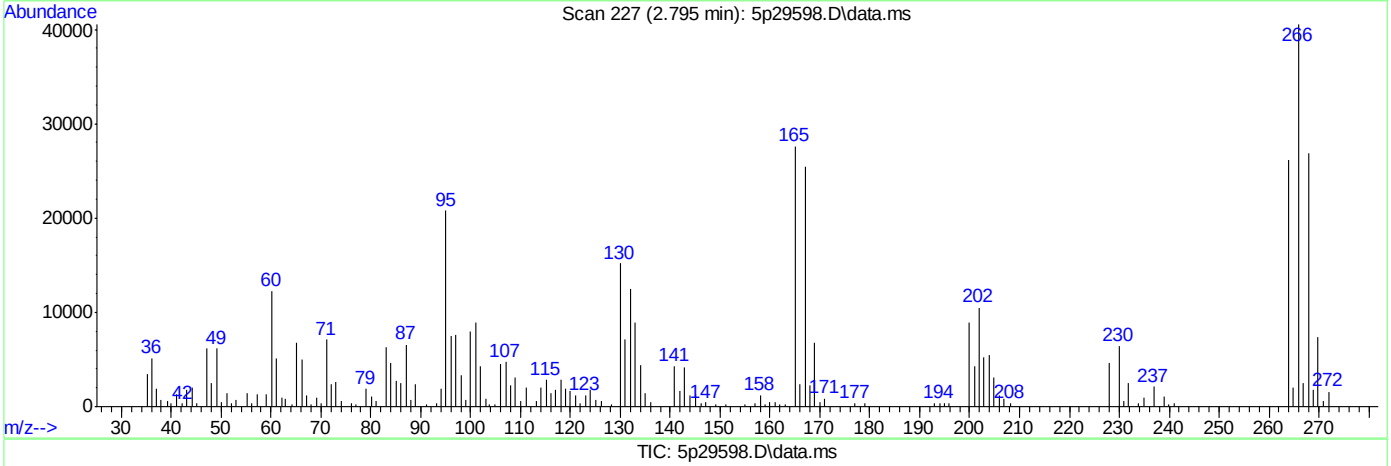
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29598.D
Acq On : 12 Jul 2016 4:05 pm
Operator : robertl1
Sample : dftpp
Misc : op95104,e5p1510
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 16:11:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29598.D\data.ms

(1) Pentachlorophenol (MC)

2.804min (-2.804) 0.00ng

response 0

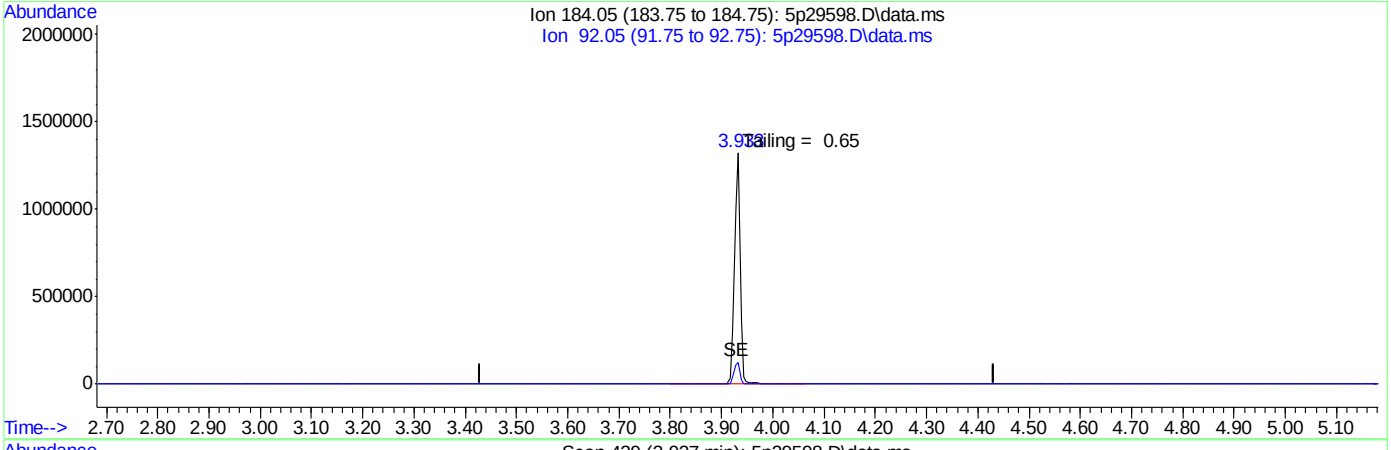
Ion	Exp%	Act%
265.80	100	0.00
263.70	64.70	0.00#
267.70	64.60	0.00#
0.00	0.00	0.00

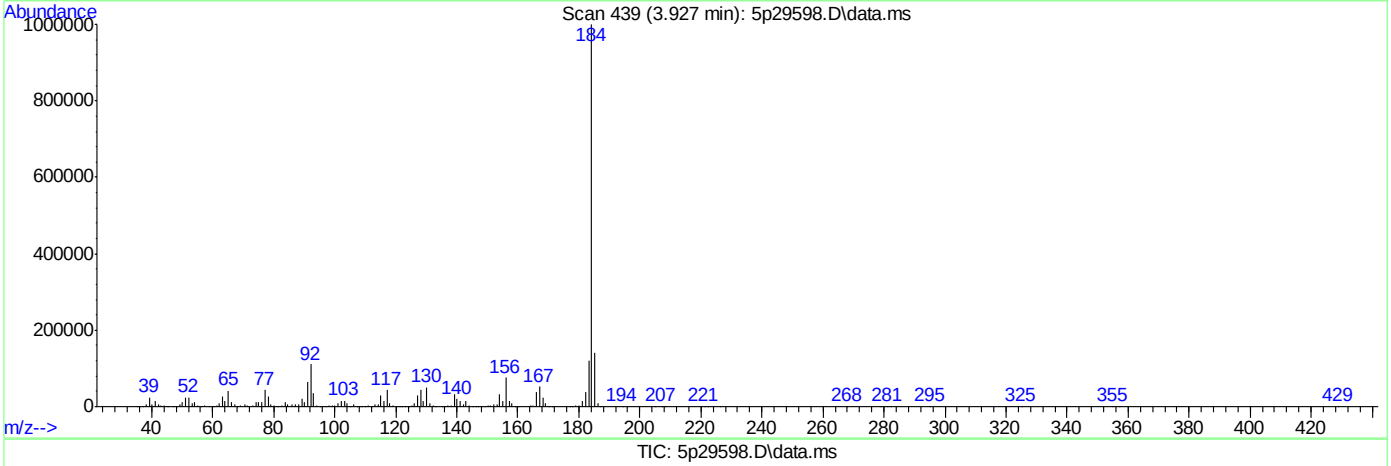
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29598.D
Acq On : 12 Jul 2016 4:05 pm
Operator : robertl1
Sample : dftpp
Misc : op95104,e5p1510
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 16:11:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29598.D\data.ms

(2) Benzidine (M)

3.931min (-3.931) 0.00ng

response 0

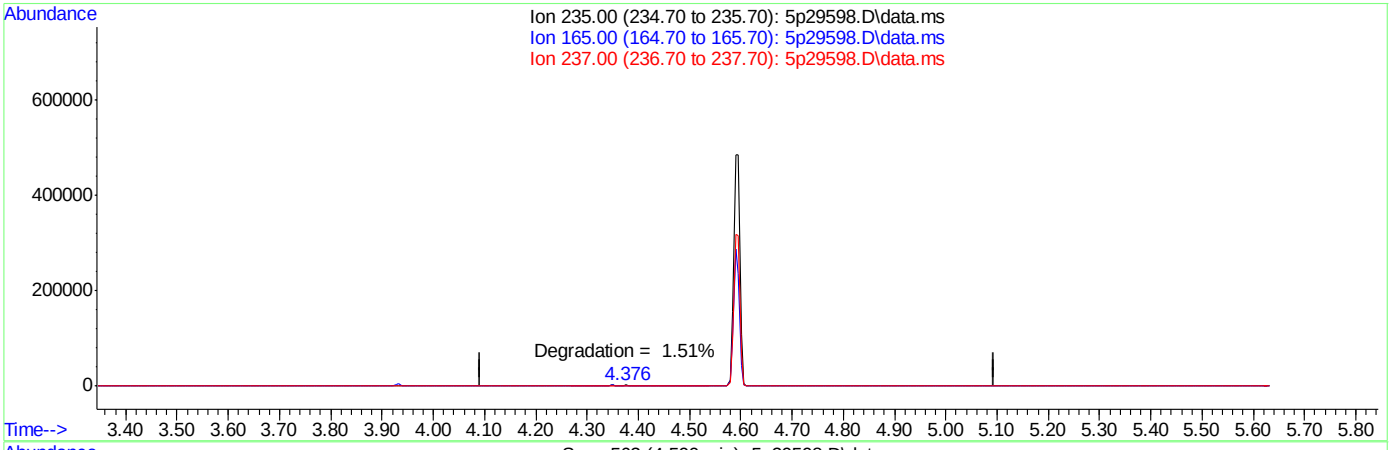
Ion	Exp%	Act%
184.05	100	0.00
92.05	11.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

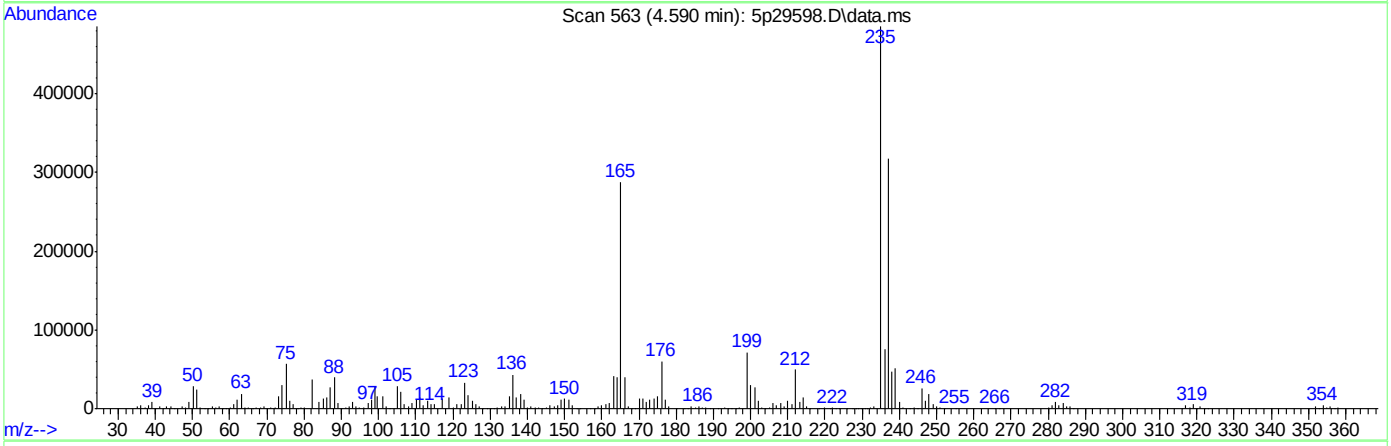
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29598.D
Acq On : 12 Jul 2016 4:05 pm
Operator : robertl1
Sample : dftpp
Misc : op95104,e5p1510
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 16:11:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP5P.M
Quant Title : Semi Volatile Extractables by GC/MS zb-5msi 30mx0.Tue Aug 25 09:34:01 2015
QLast Update : Tue Aug 25 09:34:01 2015
Response via : Initial Calibration





TIC: 5p29598.D\data.ms

(3) PP-DDT (MC)

4.594min (-4.594) 0.00ppb

response 0

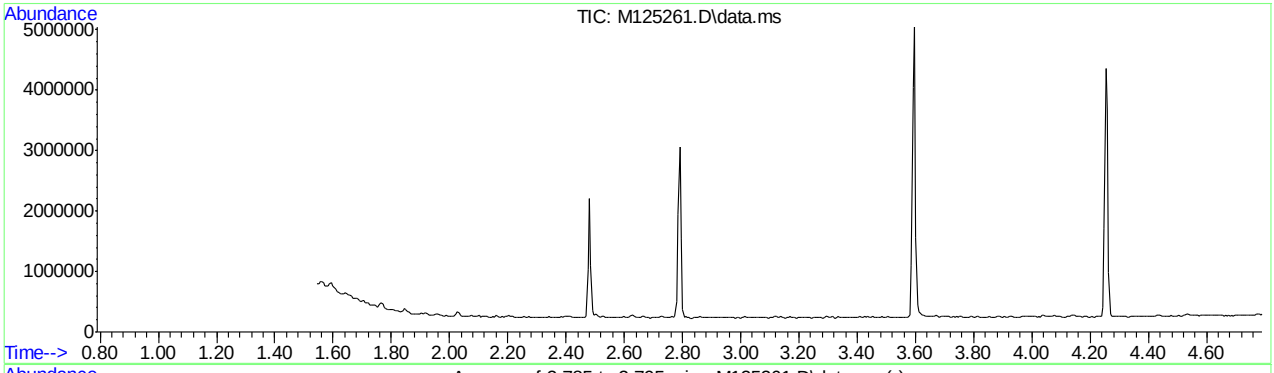
Ion	Exp%	Act%
235.00	100	0.00
165.00	58.00	0.00#
237.00	62.20	0.00#
0.00	0.00	0.00

DFTPPR

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125261.D
Acq On : 16 Jun 2016 12:28 pm
Operator : ashleyd
Sample : dftpp
Misc : op94571,em5307
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mSun Jun 19 08:52:32 2016
Last Update : Sun Jun 19 08:52:32 2016



AutoFind: Scans 233, 234, 235; Background Corrected with Scan 225

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.6	86768	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.1	107379	PASS
70	69	0.00	2	0.9	937	PASS
127	198	40	60	47.9	116545	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	243434	PASS
199	198	5	9	6.6	16038	PASS
275	198	10	30	23.3	56832	PASS
365	198	1	100	2.4	5769	PASS
441	443	0.10	100	74.3	20436	PASS
442	198	40	100	58.9	143365	PASS
443	442	17	23	19.2	27519	PASS

SGS ACCUTEST JC23654

Average of 2.785 to 2.795 min.: M125261.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	761	53.15	599	62.15	1491	71.20	28
38.10	1201	53.85	70	63.10	3506	73.20	854
39.15	6118	54.15	244	64.05	205	74.10	9969
40.05	247	55.15	381	64.25	315	75.05	15824
44.10	9	56.10	2910	65.05	2014	76.15	2440
45.10	215	57.05	5201	66.15	61	77.10	109072
47.05	384	58.15	351	66.45	87	78.10	7555
48.10	1179	59.05	152	66.75	67	79.05	6884
50.10	22806	60.05	110	67.35	345	80.15	5562
51.10	86768	60.25	99	69.05	107379	81.05	6858
52.15	4381	61.15	957	70.10	937	82.10	1496

Average of 2.785 to 2.795 min.: M125261.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
83.15	3854	96.05	659	104.05	2159	118.05	1504
85.05	907	97.25	241	105.00	1928	118.95	509
86.05	906	98.05	7124	107.00	31041	120.05	615
87.00	1055	99.10	6633	108.00	4455	120.85	146
88.95	168	100.05	273	110.05	58142	121.35	158
89.45	78	100.20	743	111.05	9357	122.10	1841
91.05	1218	101.10	4283	112.00	531	123.05	2053
92.15	949	101.95	316	113.00	451	123.95	989
93.05	10365	102.65	101	114.15	302	125.05	1108
94.05	571	103.05	781	116.10	1610	127.05	116545
95.15	441	103.35	141	117.05	22107	128.05	8154

Average of 2.785 to 2.795 min.: M125261.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.05	44165	140.00	814	150.05	610	159.15	931
130.05	4367	141.00	4685	150.85	225	160.05	2671
131.05	534	142.00	963	151.40	621	161.00	2483
132.10	635	142.75	376	151.95	312	161.75	236
133.15	5	143.10	1289	152.15	290	162.05	619
133.90	1304	144.05	97	153.05	2016	162.90	210
135.10	3706	145.05	723	154.05	735	164.00	579
136.05	1118	146.05	981	155.05	3783	165.00	1899
137.05	1505	147.05	3055	156.10	4122	166.05	1993
138.10	397	148.05	5925	157.10	1399	167.05	10960
138.65	154	149.05	1339	157.95	635	168.05	6056

Average of 2.785 to 2.795 min.: M125261.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.95	282	177.00	1552	185.05	4541	194.00	801
170.00	411	177.65	246	186.05	31901	196.05	8408
170.55	162	177.85	101	187.10	8256	198.05	243434
171.10	206	178.25	325	187.80	373	199.05	16038
171.65	294	179.05	8259	188.15	488	200.00	1344
171.90	484	180.05	5261	189.10	2026	201.25	229
173.05	763	181.05	1932	190.05	514	201.50	1121
174.05	2372	182.10	695	191.05	759	202.00	337
175.10	4598	183.10	316	191.85	477	202.25	389
175.75	502	183.35	83	192.10	2514	203.05	1161
176.00	1268	184.00	1076	193.05	2458	204.10	7889

Average of 2.785 to 2.795 min.: M125261.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
205.05	15332	212.95	402	222.05	597	232.45	178
206.05	57461	213.85	69	223.10	3988	232.65	128
207.05	6244	214.85	263	224.05	32200	232.95	89
208.00	2068	215.10	562	225.05	7460	233.45	222

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209.05	508	216.25	1114	226.00	560	234.05	654
210.45	380	217.05	13889	227.05	10883	235.10	1340
210.65	373	218.05	1809	228.00	2013	236.00	875
210.95	2587	219.05	291	229.00	2345	236.35	102
211.65	360	219.45	225	230.10	356	237.10	1231
211.95	199	221.05	12248	231.05	1067	237.85	256
212.20	282	221.65	848	232.15	181	238.15	189

Average of 2.785 to 2.795 min.: M125261.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
238.45	73	246.05	4203	253.15	395	264.05	194
239.00	786	247.05	721	253.55	306	265.05	3130
239.55	90	247.85	145	255.05	125469	266.00	760
240.05	550	248.10	244	256.05	19947	267.05	286
241.05	654	249.00	1015	257.00	1601	267.90	232
241.25	104	250.05	217	258.00	6880	268.90	257
242.05	1934	251.05	250	259.05	1127	270.15	115
242.25	234	251.30	236	260.00	274	270.45	107
243.10	2278	251.90	281	260.75	77	271.05	118
244.00	25822	252.15	100	262.65	213	271.25	349
245.10	3846	252.80	832	263.55	122	271.95	223

Average of 2.785 to 2.795 min.: M125261.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
272.20	650	282.55	85	290.45	83	298.20	166
273.05	3879	283.15	378	291.05	174	300.75	117
274.05	11407	283.75	198	292.05	470	300.95	124
275.05	56832	284.10	284	293.15	1275	301.35	120
276.05	7114	285.10	722	294.00	282	302.00	403
277.05	3765	286.05	101	294.15	168	303.00	2266
278.10	735	287.85	97	294.35	132	304.05	450
279.00	246	288.35	148	294.85	270	304.75	183
279.85	77	288.85	216	296.05	13839	307.95	152
281.00	176	289.85	185	297.00	1779	309.05	412
281.90	252	290.25	193	297.95	83	309.85	241

Average of 2.785 to 2.795 min.: M125261.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
311.65	95	320.85	327	328.00	492	339.05	118
312.05	89	321.15	73	329.05	150	340.65	96
312.75	71	321.50	204	331.05	156	341.00	280
314.05	908	322.10	441	331.80	319	342.05	122
315.00	1512	323.10	4422	332.05	175	342.85	102
315.85	268	324.00	979	332.75	86	343.05	121
316.10	625	324.75	78	333.15	213	343.55	97
316.75	126	325.85	88	334.00	3535	343.85	153
316.95	75	326.15	141	334.85	312	345.90	1292
318.05	116	326.85	436	335.05	362	347.10	321
318.95	73	327.05	636	336.05	262	348.55	91

Average of 2.785 to 2.795 min.: M125261.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
349.55	99	358.45	86	369.75	83	384.05	273
349.95	100	359.65	130	370.95	621	385.45	82
350.75	154	359.95	73	372.10	2247	389.05	90
351.15	128	360.35	79	372.75	192	389.75	454
352.10	1612	362.45	90	373.10	574	390.05	72
353.05	771	362.75	77	374.95	73	390.95	67
354.05	1769	364.95	5769	376.95	175	391.15	346
354.95	81	366.00	1317	377.65	85	392.85	179
355.35	249	366.75	77	380.55	106	393.35	77
357.15	81	367.05	122	382.85	158	394.95	95
357.85	115	367.25	90	383.00	787	398.05	93

Average of 2.785 to 2.795 min.: M125261.D\data.ms

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dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
400.95	175	414.95	91	424.95	187	431.20	261
402.10	1322	415.35	127	425.35	83	431.95	79
402.95	1588	418.15	106	425.55	72	432.60	256
404.05	385	418.45	78	426.45	113	433.05	71
404.85	71	418.65	74	427.05	156	433.15	409
405.15	79	418.95	77	427.35	73	433.60	186
405.55	113	421.10	1347	427.65	100	434.10	193
406.05	97	422.10	1387	428.45	100	434.45	101
409.95	119	423.05	8035	428.85	181	434.85	109
410.45	71	424.00	1682	429.85	79	435.45	358
411.85	101	424.70	210	430.55	74	435.75	94

Average of 2.785 to 2.795 min.: M125261.D\data.ms
dftpp
Modified:subtracted

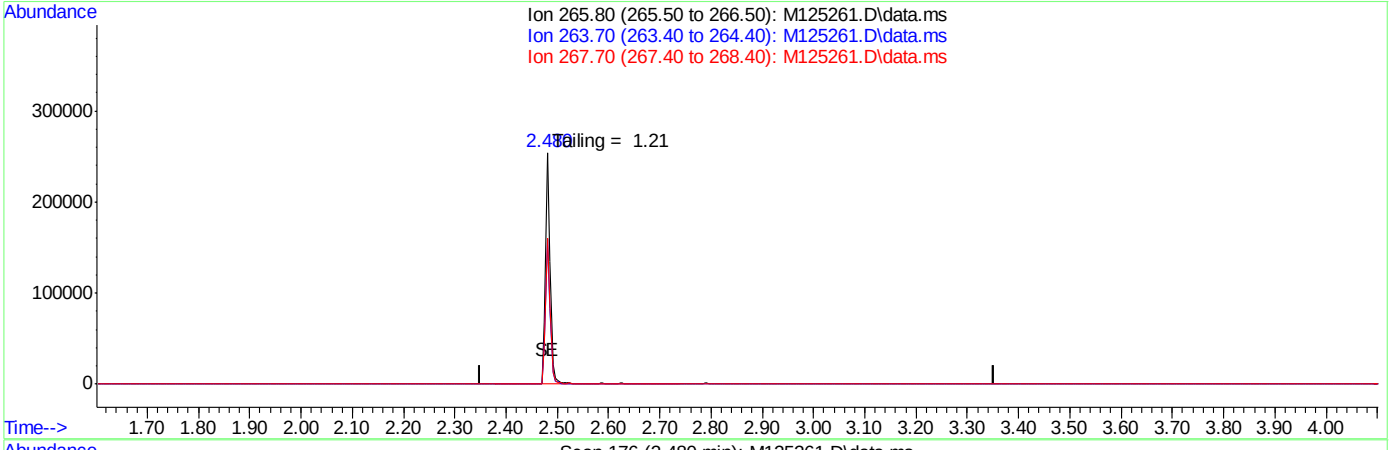
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
436.55	85	445.00	241	487.40	201		
436.85	128	447.15	103	490.35	93		
437.25	84	450.45	86				
437.55	114	452.85	129				
437.85	224	454.55	83				
438.55	93	460.95	104				
439.55	182	467.95	137				
441.05	20436	469.05	67				
442.05	143365	478.95	78				
443.05	27519	479.25	84				
444.05	2217	482.95	85				

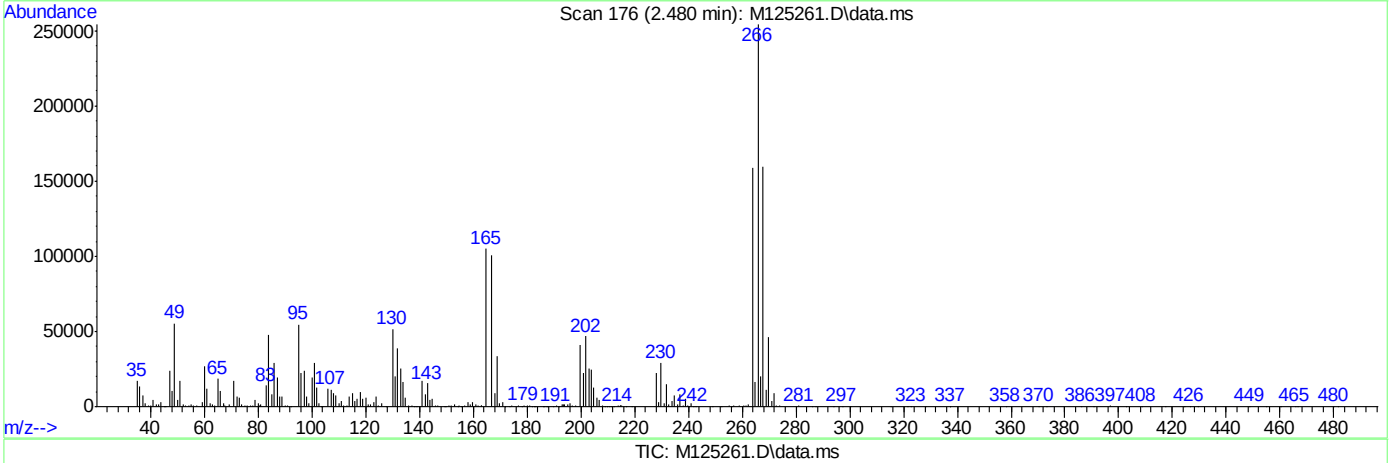
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125261.D
Acq On : 16 Jun 2016 12:28 pm
Operator : ashleyd
Sample : dftpp
Misc : op94571,em5307
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 12:33:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mThu May 12 09:34:28 2016
QLast Update : Thu May 12 09:34:28 2016
Response via : Continuing Cal File:





TIC: M125261.D\data.ms

(1) Pentachlorophenol (MC)

2.852min 0.00ppm d

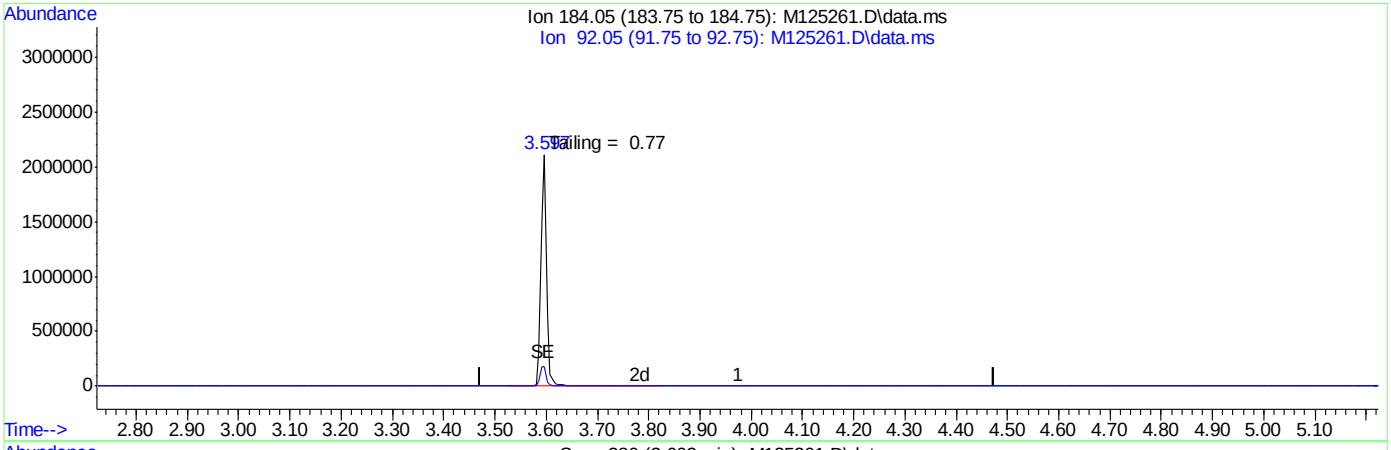
response 0

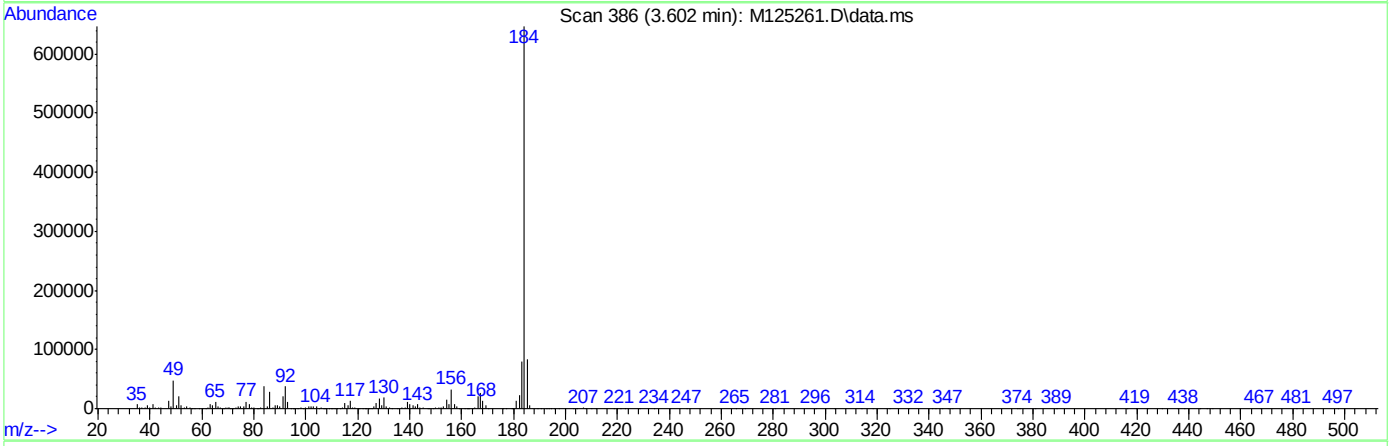
Ion	Exp%	Act%
265.80	100	0.00
263.70	61.60	0.00
267.70	61.70	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125261.D
Acq On : 16 Jun 2016 12:28 pm
Operator : ashleyd
Sample : dftpp
Misc : op94571,em5307
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 12:33:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mThu May 12 09:34:28 2016
QLast Update : Thu May 12 09:34:28 2016
Response via : Continuing Cal File:





TIC: M125261.D\data.ms

(2) Benzidine (M)

3.973min 0.00ppm d

response 0

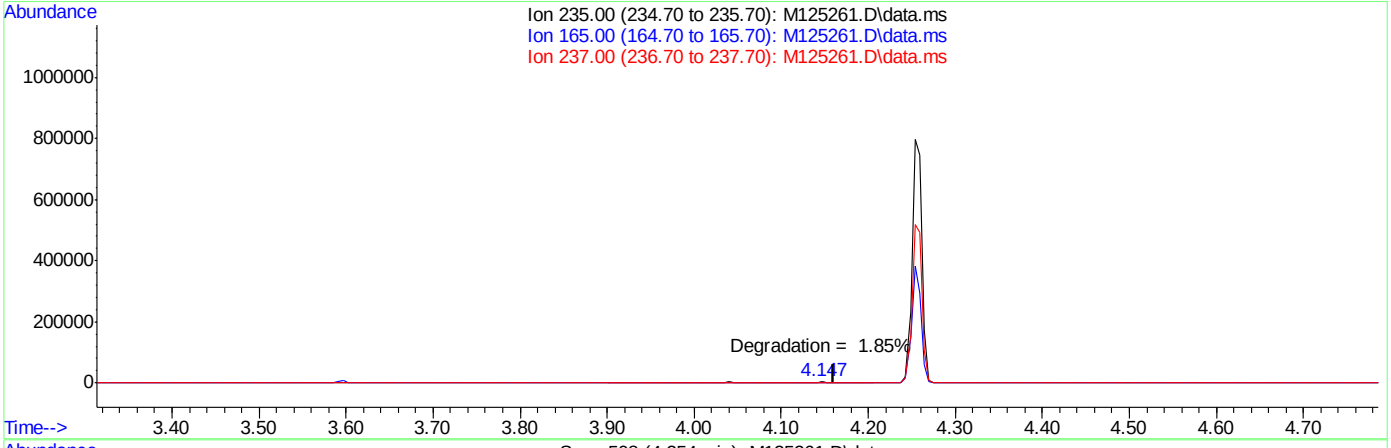
Ion	Exp%	Act%
184.05	100	0.00
92.05	10.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

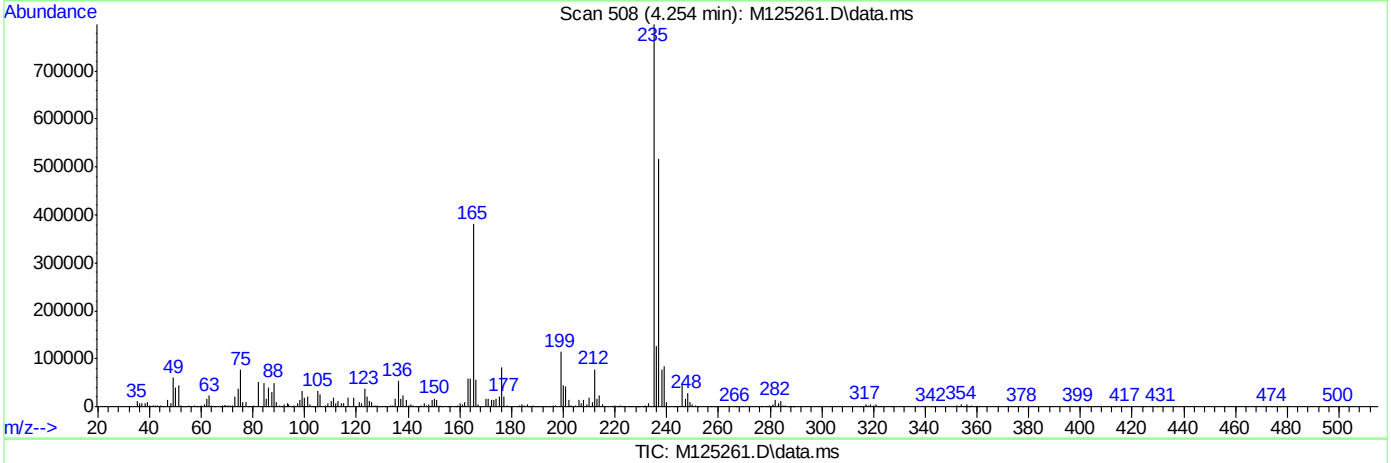
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125261.D
Acq On : 16 Jun 2016 12:28 pm
Operator : ashleyd
Sample : dftpp
Misc : op94571,em5307
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 12:33:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mThu May 12 09:34:28 2016
QLast Update : Thu May 12 09:34:28 2016
Response via : Continuing Cal File:





TIC: M125261.D\data.ms

(3) PP-DDT (MC)

3.660min (-3.660) 0.00ppm

response 0

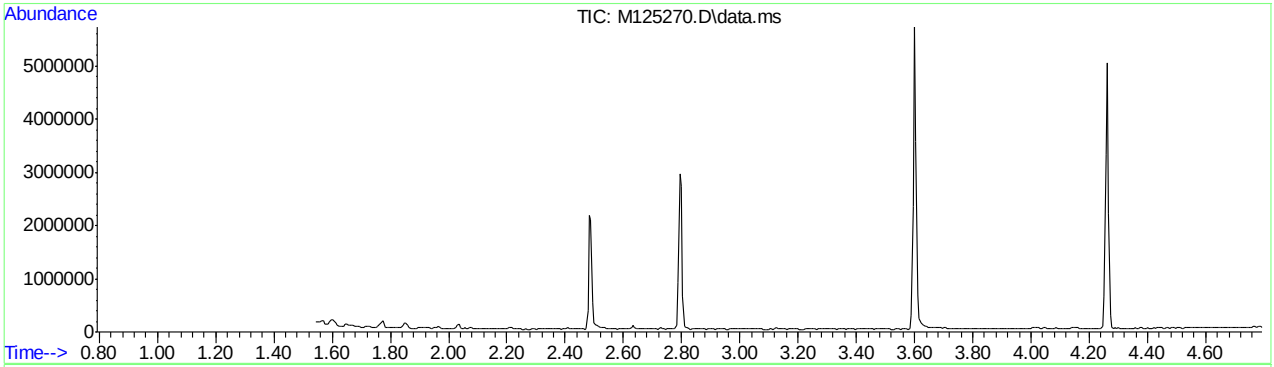
Ion	Exp%	Act%
235.00	100	0.00
165.00	46.90	0.00#
237.00	64.20	0.00#
0.00	0.00	0.00

DFTPPR

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125270.D
Acq On : 16 Jun 2016 5:01 pm
Operator : juliusj
Sample : dftpp
Misc : op94571,em5308
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mSun Jun 19 08:52:32 2016
Last Update : Sun Jun 19 08:52:32 2016



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	37.2	100016	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.6	127904	PASS
70	69	0.00	2	0.5	633	PASS
127	198	40	60	51.6	138621	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	268738	PASS
199	198	5	9	7.2	19323	PASS
275	198	10	30	21.1	56652	PASS
365	198	1	100	2.5	6675	PASS
441	443	0.10	100	87.0	20921	PASS
442	198	40	100	52.6	141453	PASS
443	442	17	23	17.0	24057	PASS

SGS ACCUTEST JC23654

Average of 2.788 to 2.798 min.: M125270.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.05	263	47.05	80	58.15	168	66.75	248
36.05	225	49.10	1408	59.10	292	67.25	343
36.85	133	50.10	26849	60.10	271	69.05	127904
37.10	28	51.10	100016	60.95	147	70.10	633
38.10	932	52.10	5317	61.10	815	71.15	514
39.10	9550	52.95	145	62.10	1639	71.80	196
40.05	17	53.10	285	63.10	4095	73.15	372
41.15	455	54.05	84	63.75	191	74.10	10929
41.95	162	54.25	107	64.05	422	75.05	17961
43.10	102	56.05	2454	64.30	603	77.15	123830
45.15	328	57.05	7261	65.10	2282	78.15	8259

Average of 2.788 to 2.798 min.: M125270.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.10	7853	93.05	13810	103.10	1813	114.90	215
80.05	5982	93.75	281	104.10	3223	116.05	1770
81.05	8049	94.00	820	105.10	2823	117.05	24604
82.10	1539	94.35	77	105.95	335	117.95	469
83.10	1558	95.05	762	107.00	35165	118.10	1262
85.05	1754	96.05	1192	108.05	5615	118.80	596
86.00	2511	97.20	275	110.00	70570	119.30	191
87.05	900	98.00	8227	111.05	10783	120.20	738
87.95	503	99.05	7576	112.00	1408	121.25	185
91.00	1843	100.05	912	113.10	600	122.00	2169
92.05	2381	101.05	4878	114.10	233	123.05	3421

Average of 2.788 to 2.798 min.: M125270.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.00	1767	135.05	4150	144.60	175	152.85	467
125.00	1614	136.10	1721	145.15	108	153.05	1386
127.05	138621	137.10	1702	145.95	325	153.95	712
128.10	10394	138.20	490	146.10	1106	154.15	827
129.05	50248	139.15	191	147.10	2705	155.00	3966
130.05	3851	139.95	461	148.05	6240	156.05	4610
131.05	850	141.05	5596	149.00	1129	157.05	595
131.75	166	141.95	1211	150.15	738	157.35	114
132.00	131	142.15	904	150.95	156	158.15	1108
133.00	66	142.95	1055	151.20	603	158.95	752
133.95	1314	144.20	377	151.80	626	160.05	1801

Average of 2.788 to 2.798 min.: M125270.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
161.10	2986	170.35	104	180.05	6659	188.90	1812
162.15	539	171.00	897	181.05	2894	190.05	387
163.00	342	171.90	359	182.05	241	190.75	433
164.20	493	172.15	534	182.90	493	191.05	144
164.55	69	173.00	1712	183.15	191	192.05	2857
164.95	1222	174.10	2518	183.75	295	193.00	3578
166.05	2320	175.10	3995	184.05	406	193.75	219
167.05	11771	176.00	1716	185.15	4762	194.15	475
168.05	7503	177.00	2115	186.05	36139	194.35	233
169.05	1053	178.05	359	187.00	8986	195.10	818
169.90	418	179.00	9249	188.10	1097	195.95	8517

Average of 2.788 to 2.798 min.: M125270.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
198.05	268738	206.95	7372	214.45	257	225.05	8722
199.05	19323	208.10	2573	215.05	900	226.05	149
200.00	1988	208.95	727	217.05	16489	227.05	12955
201.15	240	209.25	144	217.75	195	228.05	2143

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201.45	1418	210.35	302	218.00	1661	228.75	420
202.05	375	210.60	1908	218.65	211	229.00	3068
202.45	97	211.05	2422	219.00	271	230.05	324
203.00	1693	212.15	223	221.05	15707	231.00	925
204.05	9304	212.45	113	221.85	1224	232.10	222
205.05	14628	213.00	213	223.10	4008	232.80	241
206.05	60106	213.55	177	224.05	34141	234.00	858

Average of 2.788 to 2.798 min.: M125270.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
234.85	223	243.05	432	251.05	142	261.15	261
235.15	1021	244.05	26796	251.75	257	262.95	67
235.85	391	245.05	3088	252.05	653	263.75	344
236.05	442	245.95	4946	253.15	1338	265.00	2558
237.00	961	247.05	340	255.05	135696	266.05	560
238.05	169	248.00	215	256.00	18166	266.85	230
238.75	147	249.00	860	257.05	1827	268.65	151
239.05	353	249.75	130	257.55	148	269.35	136
240.05	420	250.15	247	258.05	6104	269.55	108
241.05	848	250.65	99	259.00	1688	270.10	253
242.10	1993	250.85	109	259.95	306	270.45	106

Average of 2.788 to 2.798 min.: M125270.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
270.85	214	281.25	164	287.75	150	295.15	373
272.05	821	281.75	88	287.95	171	296.05	14282
273.00	4588	282.05	68	288.95	583	297.00	1941
274.05	11999	282.25	114	289.75	86	297.85	95
275.05	56652	283.00	406	290.85	70	298.15	203
276.05	7663	284.00	477	291.05	2	299.65	121
277.00	4314	284.35	91	292.00	207	300.75	155
277.85	133	284.85	68	292.95	976	302.05	192
278.05	878	285.00	1385	293.85	155	302.95	1934
279.15	220	286.05	111	294.10	310	304.10	622
280.35	97	287.35	136	294.65	202	306.05	76

Average of 2.788 to 2.798 min.: M125270.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
307.25	68	316.35	112	327.00	1139	334.90	959
309.00	199	316.65	109	328.10	705	335.65	74
309.45	71	319.65	107	329.15	79	336.05	193
310.05	543	319.95	83	329.85	71	337.60	185
311.15	116	320.95	624	330.95	102	339.15	70
311.85	122	321.95	226	332.15	99	341.15	676
312.90	222	323.05	5152	332.35	95	341.85	86
313.75	391	323.85	150	332.95	216	342.05	215
314.15	485	324.10	706	333.15	216	343.85	102
314.95	1684	325.45	69	333.85	176	346.05	1101
316.00	1099	326.05	73	334.05	2968	346.95	268

Average of 2.788 to 2.798 min.: M125270.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
348.05	107	359.10	238	370.65	126	390.10	247
349.65	78	360.20	146	370.95	499	390.95	349
350.85	116	360.75	115	372.00	3492	391.95	90
351.05	114	362.05	110	373.00	1056	393.05	131
352.05	1666	362.65	71	373.85	80	393.95	75
352.45	82	363.25	79	378.75	83	394.35	75
353.05	1041	363.80	313	382.90	655	394.95	117
353.95	1509	364.95	6675	384.05	189	396.65	97
354.95	107	365.95	797	385.95	86	397.95	277
355.20	272	369.60	181	387.55	72	401.05	435
357.55	90	370.05	89	388.15	83	402.10	644

Average of 2.788 to 2.798 min.: M125270.D\data.ms

DFTPPM.M Mon Jun 20 09:01:57 2016 MSM Page: 3

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
403.05	1261	414.95	76	424.95	139	431.95	193
404.05	749	418.35	74	425.85	152	432.65	233
404.85	95	419.15	202	426.55	67	432.95	88
407.45	78	419.85	72	426.75	133	433.25	107
407.75	90	420.20	152	427.15	227	433.55	134
408.25	75	420.85	121	428.35	135	434.15	290
410.05	178	421.05	936	428.95	110	434.80	306
410.95	78	422.10	1249	429.60	186	435.05	294
411.35	68	423.05	9128	429.95	120	435.65	110
412.75	71	424.05	1637	430.55	187	435.95	105
414.25	67	424.75	99	431.35	318	436.50	167

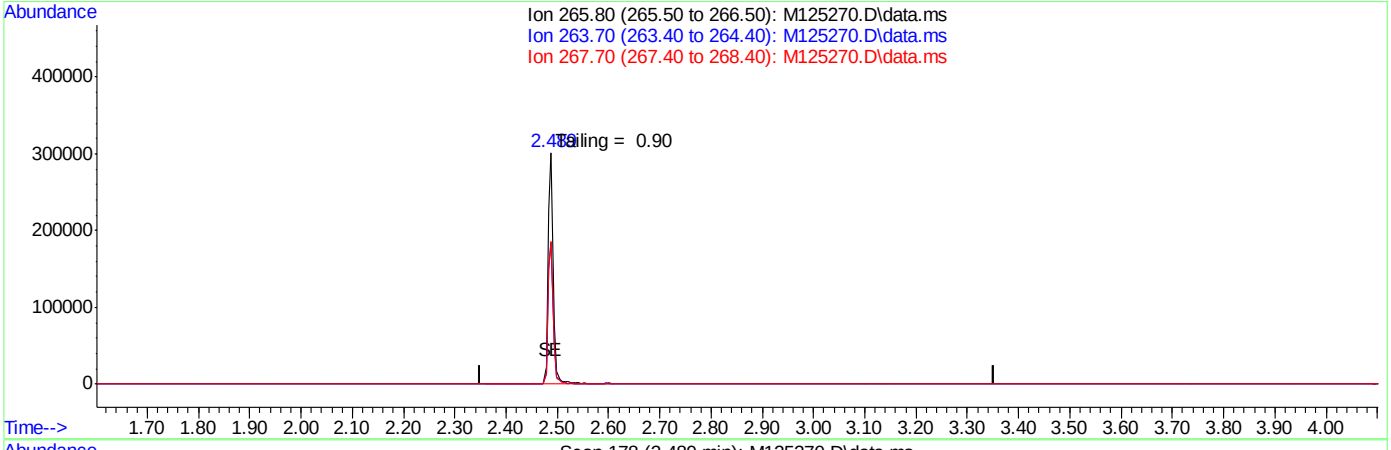
Average of 2.788 to 2.798 min.: M125270.D\data.ms
dftpp
Modified:subtracted

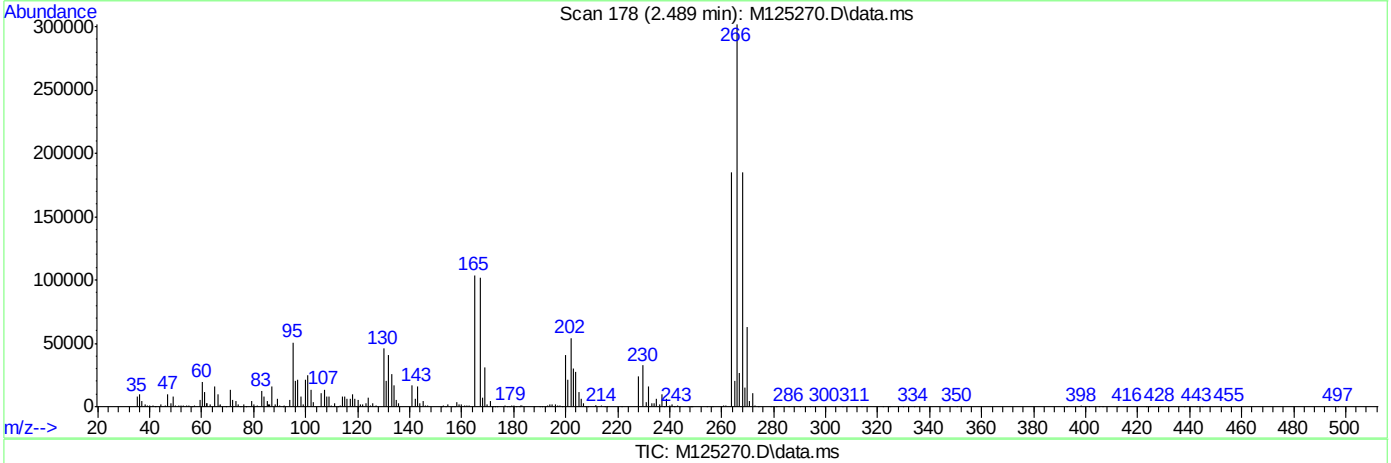
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
437.25	106	445.10	39	475.45	122	495.85	75
437.55	197	449.45	98	476.85	69	498.05	91
437.95	126	451.10	163	479.05	74		
438.35	131	452.75	88	481.05	69		
438.55	152	461.05	100	487.35	72		
438.80	32	462.65	109	487.85	155		
439.95	203	462.95	101	488.55	102		
441.05	20921	465.05	156	488.85	79		
442.05	141453	465.75	148	489.85	71		
443.05	24057	466.35	87	490.85	111		
444.05	2356	471.95	70	493.65	85		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125270.D
Acq On : 16 Jun 2016 5:01 pm
Operator : juliusj
Sample : dftpp
Misc : op94571,em5308
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 17:07:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mThu May 12 09:34:28 2016
QLast Update : Thu May 12 09:34:28 2016
Response via : Continuing Cal File:





TIC: M125270.D\data.ms

(1) Pentachlorophenol (MC)

2.852min (-2.852) 0.00ppm

response 0

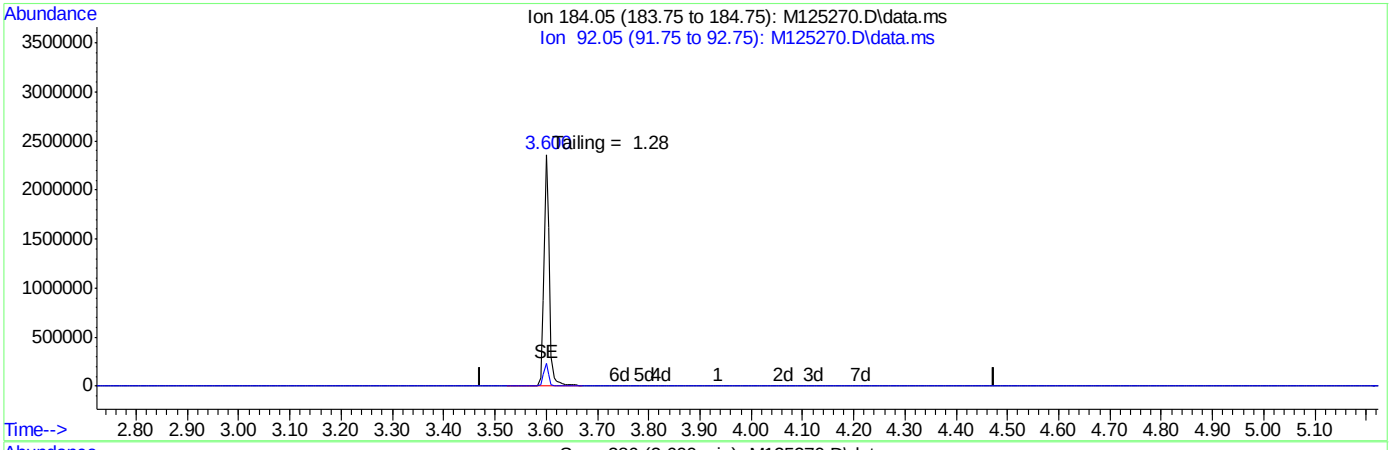
Ion	Exp%	Act%
265.80	100	0.00
263.70	61.60	0.00#
267.70	61.70	0.00#
0.00	0.00	0.00

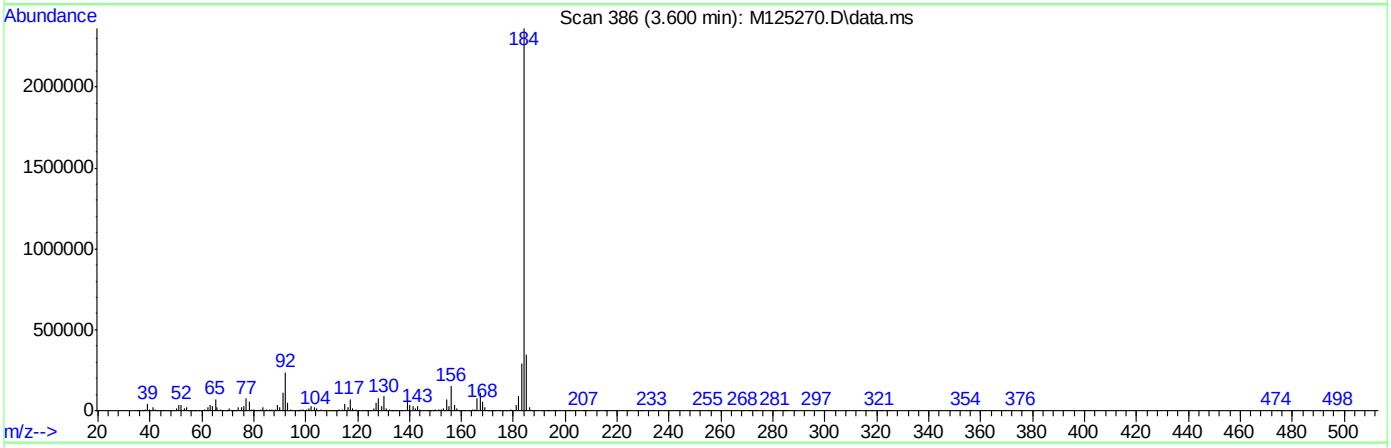
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125270.D
Acq On : 16 Jun 2016 5:01 pm
Operator : juliusj
Sample : dftpp
Misc : op94571,em5308
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 17:07:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mThu May 12 09:34:28 2016
QLast Update : Thu May 12 09:34:28 2016
Response via : Continuing Cal File:





TIC: M125270.D\data.ms

(2) Benzidine (M)

3.973min 0.00ppm d

response 0

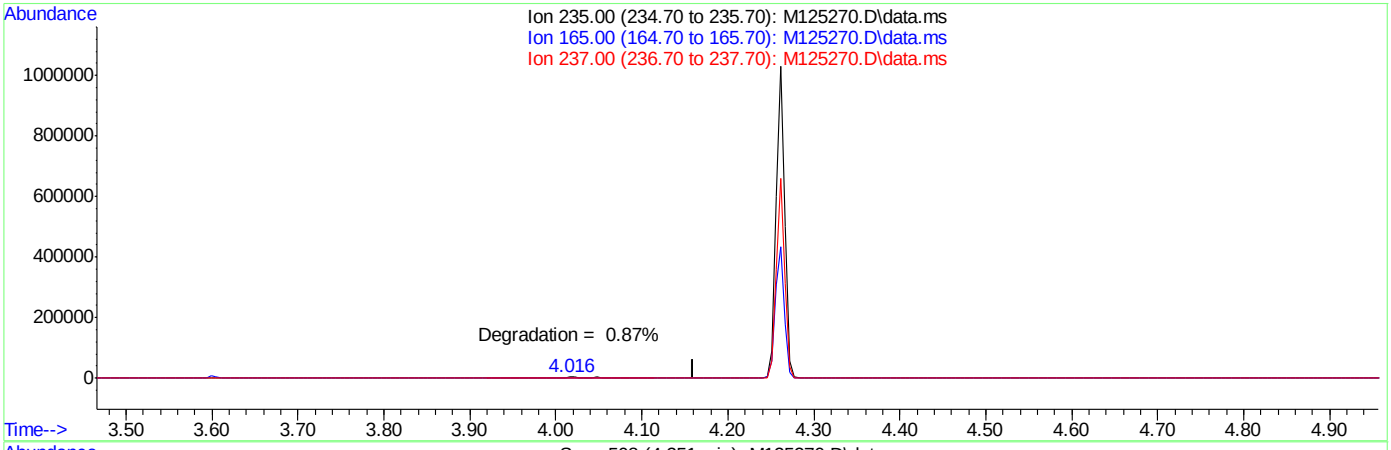
Ion	Exp%	Act%
184.05	100	0.00
92.05	10.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

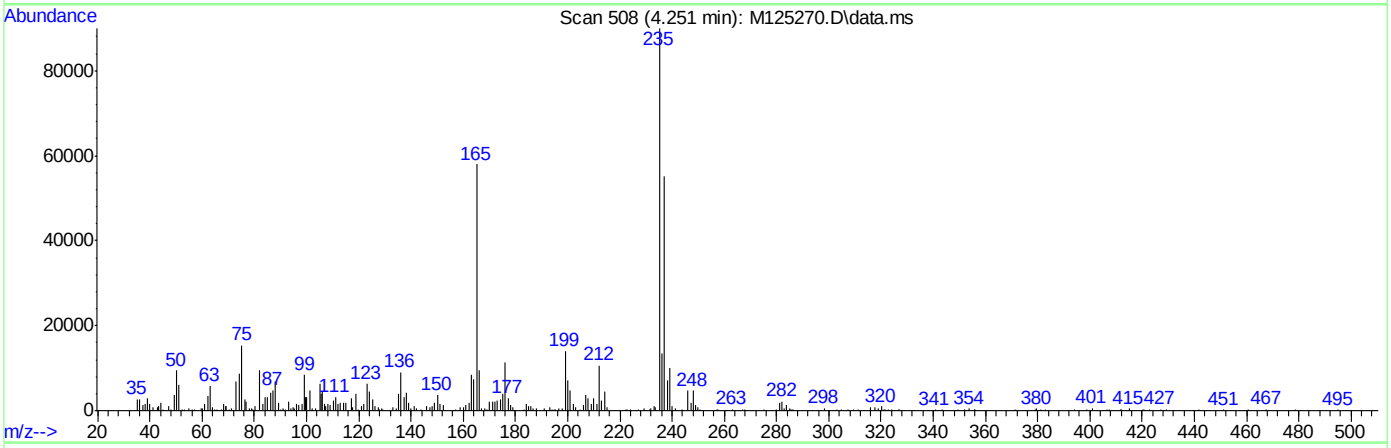
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125270.D
Acq On : 16 Jun 2016 5:01 pm
Operator : juliusj
Sample : dftpp
Misc : op94571,em5308
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 17:07:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mThu May 12 09:34:28 2016
QLast Update : Thu May 12 09:34:28 2016
Response via : Continuing Cal File:





TIC: M125270.D\data.ms

(3) PP-DDT (MC)

3.660min (-3.660) 0.00ppm

response 0

Ion	Exp%	Act%
235.00	100	0.00
165.00	46.90	0.00#
237.00	64.20	0.00#
0.00	0.00	0.00

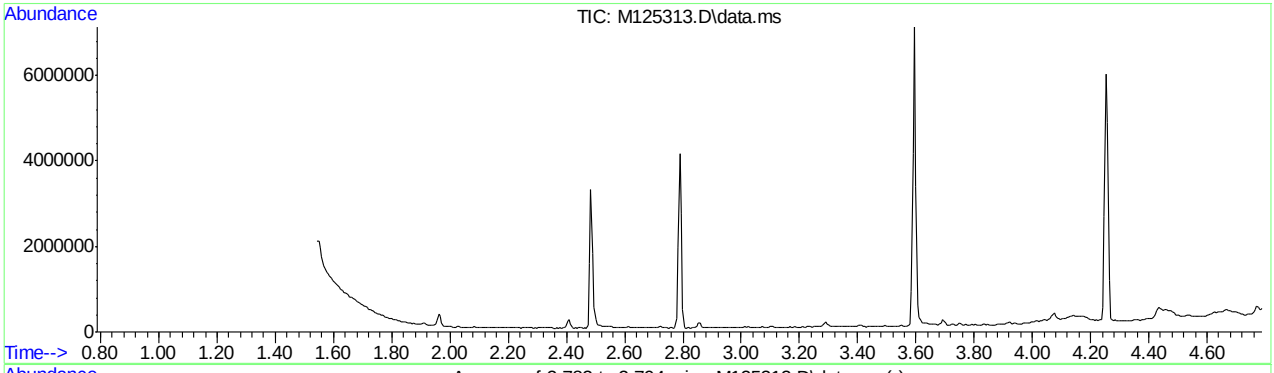
SGS ACCUTEST JC23654

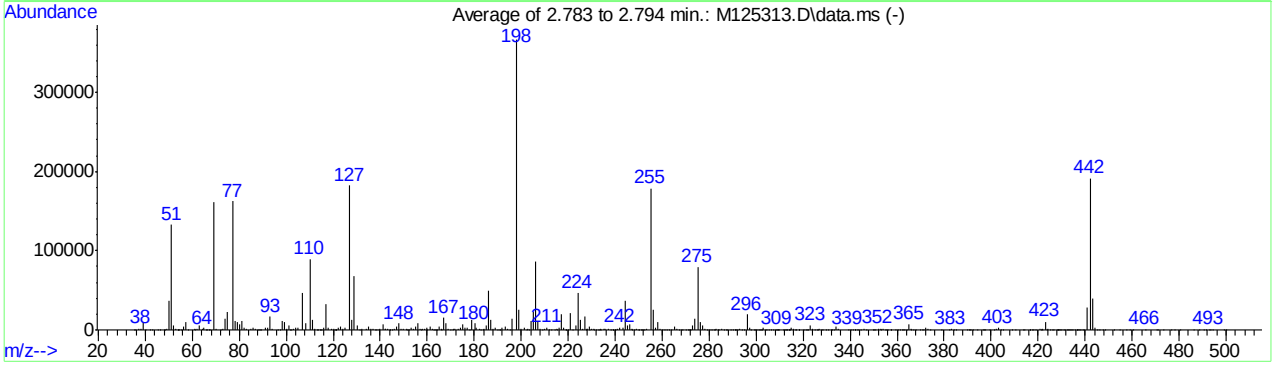
DFTPPR

Data Path : C:\msdchem\1\DATA\EM5310\
Data File : M125313.D
Acq On : 19 Jun 2016 7:53 am
Operator : kristis
Sample : dftpp
Misc : op94571,em5310,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mSun Jun 19 08:52:32 2016
Last Update : Sun Jun 19 08:52:32 2016





AutoFind: Scans 233, 234, 235; Background Corrected with Scan 228

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.2	132663	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	44.2	161863	PASS
70	69	0.00	2	0.6	964	PASS
127	198	40	60	49.7	182271	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	366592	PASS
199	198	5	9	6.8	24856	PASS
275	198	10	30	21.8	79949	PASS
365	198	1	100	2.1	7748	PASS
441	443	0.10	100	70.4	27910	PASS
442	198	40	100	52.3	191608	PASS
443	442	17	23	20.7	39663	PASS

SGS ACCUTEST JC23654

Average of 2.783 to 2.794 min.: M125313.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.05	294	48.25	71	57.15	9349	67.45	336
35.95	187	49.20	2052	58.10	635	69.05	161863
37.05	946	50.15	36388	60.95	394	70.10	964
38.10	1766	51.10	132663	61.20	1347	72.10	370
39.10	10487	52.15	5916	62.10	1824	73.10	810
40.05	359	53.00	867	63.15	5452	74.10	13622
42.10	318	53.85	99	64.15	909	75.05	23203
43.15	228	54.05	242	65.10	3086	77.15	162527
45.15	296	54.45	164	66.00	148	78.10	12048
46.15	97	55.15	568	66.35	149	79.10	10655
48.00	191	56.15	4497	67.10	290	80.10	7454

Average of 2.783 to 2.794 min.: M125313.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.10	11222	92.10	2207	103.05	2134	114.65	103
82.05	3112	93.05	16632	104.05	2491	115.10	494
83.10	1911	94.05	922	105.05	2624	116.10	2663
85.10	918	96.15	534	107.05	46744	117.05	31946
86.05	2703	97.25	454	108.10	7878	118.05	2267
87.00	1041	98.05	10903	110.05	89547	119.10	815
87.75	206	99.05	10062	111.05	12827	120.10	884
88.05	224	100.10	974	112.15	1855	120.65	82
88.95	185	101.05	6004	113.10	730	121.00	135
89.25	71	101.80	302	113.65	93	121.35	329
91.05	2563	102.10	52	114.35	151	122.05	2916

Average of 2.783 to 2.794 min.: M125313.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.05	4733	136.05	1574	144.25	127	153.05	2335
124.05	1895	137.10	2175	145.00	39	154.05	1391
125.10	2930	137.95	201	146.10	1642	155.00	3586
127.00	182271	138.35	161	147.10	3669	156.05	8236
128.05	12496	139.25	80	148.00	8350	157.10	1551
129.00	68617	139.95	911	149.05	1729	157.35	295
130.05	5378	141.05	7630	150.00	768	158.05	1630
131.05	714	141.95	1390	151.00	1014	159.05	939
132.15	1012	142.15	1230	151.25	206	159.75	336
134.05	1450	143.05	1808	151.60	554	160.05	2354
135.05	4735	143.95	440	152.00	66	161.10	4127

Average of 2.783 to 2.794 min.: M125313.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
162.10	1052	170.05	444	180.10	8091	190.05	23
162.75	79	170.75	117	181.00	3252	190.75	282
163.00	281	171.15	1397	182.10	831	191.05	695
163.85	153	171.95	1644	182.95	672	192.00	3486
164.00	314	173.15	1150	183.45	268	193.10	3766
165.05	3848	174.05	2961	184.00	1119	194.00	1359
165.90	380	175.10	6934	185.05	6149	195.05	314
166.10	1806	176.10	2304	186.05	49464	196.05	13584
167.05	15553	177.05	2915	187.05	12689	198.05	366592
168.10	8350	178.00	675	188.15	1715	199.05	24856
169.10	1173	179.00	12375	189.05	2650	200.00	1841

Average of 2.783 to 2.794 min.: M125313.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
201.55	2312	211.05	2868	219.75	81	228.85	467
202.05	41	211.75	220	221.00	20914	229.05	3602
202.90	1093	212.90	219	222.05	223	230.10	804
203.15	608	214.05	100	223.05	5482	230.95	428

DFTPPM.M Mon Jun 20 09:20:15 2016 MSM Page: 2

204.00	10764	215.00	974	224.05	46304	231.10	902
205.05	22739	215.25	247	225.05	12206	232.00	575
206.05	86498	216.10	2236	226.10	1399	232.75	109
207.05	11786	217.00	19657	227.05	17182	233.10	479
207.95	2096	218.05	3037	227.75	236	233.85	217
209.10	526	218.75	117	227.95	1049	234.00	1093
210.15	1711	219.10	390	228.15	853	235.10	1578

Average of 2.783 to 2.794 min.: M125313.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
235.85	1060	245.10	5562	252.55	500	263.65	227
237.05	1486	246.05	6622	253.10	1043	265.05	4024
238.10	402	246.95	883	255.05	178693	266.00	1013
238.85	259	247.15	435	256.05	25441	267.05	174
239.00	751	248.05	239	257.10	2202	268.05	76
239.85	240	248.90	1300	258.05	9445	268.65	169
240.10	427	249.85	225	259.00	1940	270.05	462
241.10	1372	250.10	259	260.15	556	270.85	293
242.05	3173	251.05	582	261.05	477	271.30	483
243.15	2322	251.25	250	262.05	104	271.85	220
244.05	36186	252.05	379	262.95	323	272.10	486

Average of 2.783 to 2.794 min.: M125313.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
273.05	5637	283.10	798	291.55	99	301.00	240
274.05	14579	283.85	103	292.15	528	301.55	182
275.05	79949	284.00	445	293.05	1465	301.95	126
276.05	10227	285.10	1379	294.05	627	302.25	251
277.05	5777	286.05	68	294.95	74	303.05	2672
278.00	848	287.00	207	296.05	19464	303.95	169
278.90	431	287.85	112	297.05	2426	304.15	308
280.25	112	289.10	302	297.85	85	305.15	82
281.15	467	289.90	372	299.05	97	306.25	126
282.15	144	290.85	102	299.80	285	307.45	132
282.45	130	291.15	116	300.25	107	308.05	133

Average of 2.783 to 2.794 min.: M125313.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
308.45	110	314.45	141	323.05	6390	332.15	245
308.95	245	314.95	2383	324.00	1452	333.00	661
309.15	127	316.05	1259	324.85	156	334.05	4307
309.85	132	316.65	207	325.90	364	335.15	1355
311.45	80	317.00	179	326.25	141	339.15	184
312.15	92	318.05	91	327.00	1615	339.95	287
312.55	118	318.35	143	327.85	323	340.95	528
312.85	83	319.90	237	328.05	267	341.85	242
313.15	73	321.05	670	329.85	103	342.05	111
313.95	464	321.65	136	330.70	207	343.15	97
314.15	486	321.85	121	331.95	307	343.75	73

Average of 2.783 to 2.794 min.: M125313.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
344.45	116	355.65	90	365.05	7748	378.75	98
346.05	1404	355.85	90	365.75	296	382.15	89
347.05	381	357.15	76	366.00	1413	382.95	880
349.55	72	357.55	121	367.00	382	384.05	82
350.25	73	359.10	260	367.95	78	384.85	67
350.65	73	360.30	214	369.95	115	390.00	367
352.05	2133	361.10	151	370.85	78	390.65	102
352.95	362	362.05	141	371.10	452	390.95	101
353.10	1550	362.60	156	372.05	3159	391.20	267
354.05	2082	363.15	121	373.15	854	391.95	287
354.85	117	363.85	248	374.15	132	393.95	110

Average of 2.783 to 2.794 min.: M125313.D\data.ms

DFTPPM.M Mon Jun 20 09:20:15 2016 MSM

dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
396.35	87	413.55	77	423.05	10528	429.65	191
397.05	67	413.95	229	423.85	139	430.70	391
397.45	165	416.35	209	424.05	1954	431.50	270
399.55	111	416.75	127	425.10	313	432.15	121
401.15	239	417.35	94	425.85	129	432.55	255
402.00	2019	417.85	127	426.65	106	433.15	301
403.05	2278	418.95	170	427.85	196	433.55	261
404.05	555	420.95	1041	428.35	151	433.95	206
405.30	232	421.15	696	428.65	79	434.85	352
408.65	73	421.65	104	428.85	115	435.70	541
410.35	117	422.00	1064	429.35	175	436.40	326

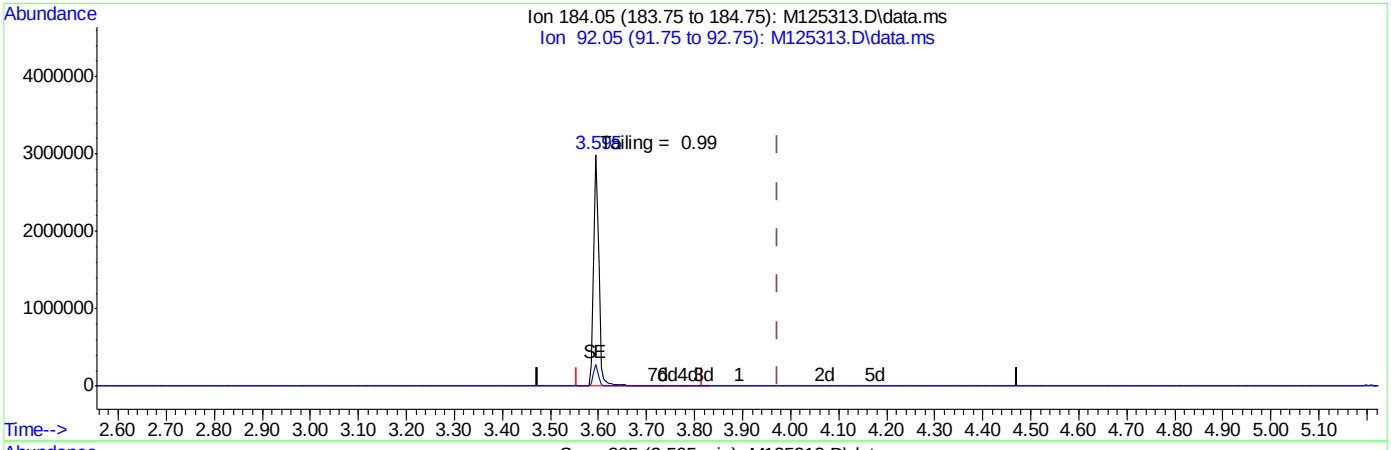
Average of 2.783 to 2.794 min.: M125313.D\data.ms
dftpp
Modified:subtracted

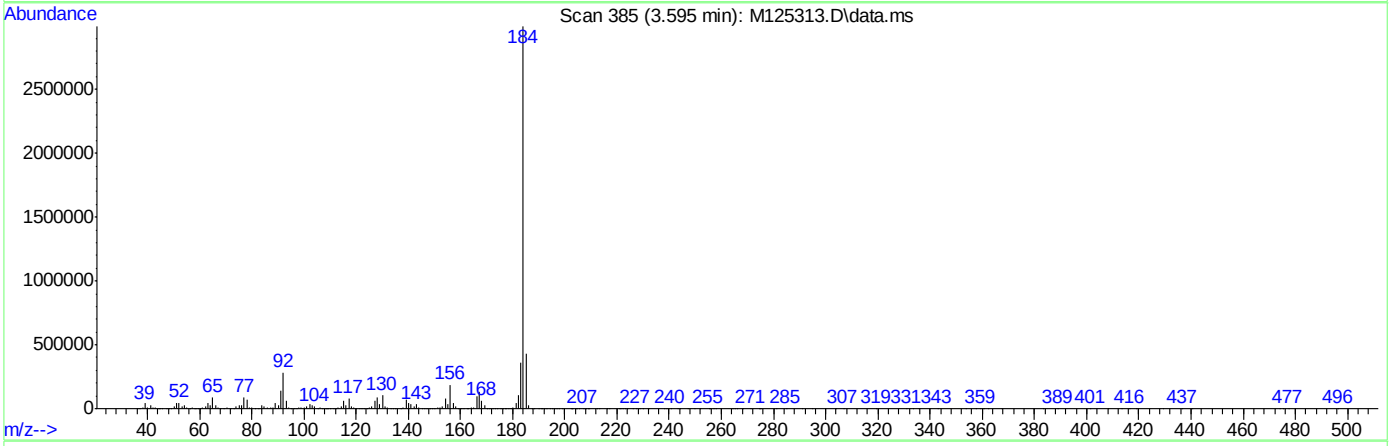
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
436.65	84	446.15	135	473.35	108	498.85	143
436.95	236	447.65	115	476.55	70	499.85	139
437.45	92	448.55	85	478.05	83		
437.85	146	452.15	138	480.45	147		
438.80	421	454.85	73	485.95	73		
439.55	146	457.35	92	488.65	94		
441.05	27910	459.15	67	490.65	71		
442.05	191608	460.35	71	491.55	91		
443.05	39663	465.65	128	492.85	160		
444.05	3283	470.35	108	493.45	84		
444.95	158	470.85	119	494.25	72		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5310\
Data File : M125313.D
Acq On : 19 Jun 2016 7:53 am
Operator : kristis
Sample : dftpp
Misc : op94571,em5310,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 07:58:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mThu May 12 09:34:28 2016
QLast Update : Thu May 12 09:34:28 2016
Response via : Continuing Cal File:





TIC: M125313.D\data.ms

(2) Benzidine (M)

3.595min (-0.378) 0.00ppm m

response 2290399

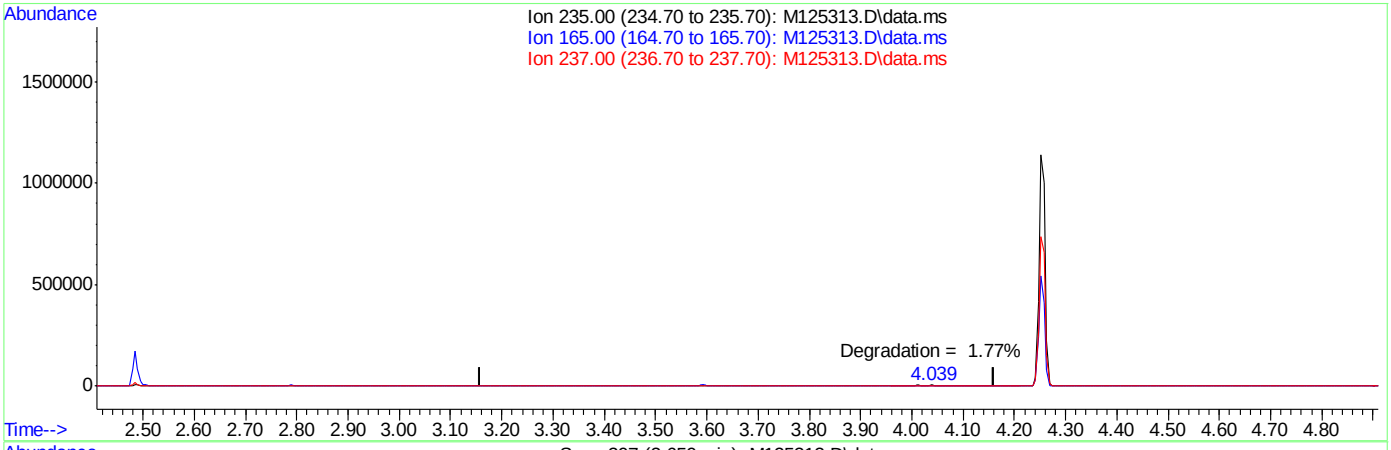
Ion	Exp%	Act%
184.05	100	100
92.05	10.70	9.49
0.00	0.00	0.00
0.00	0.00	0.00

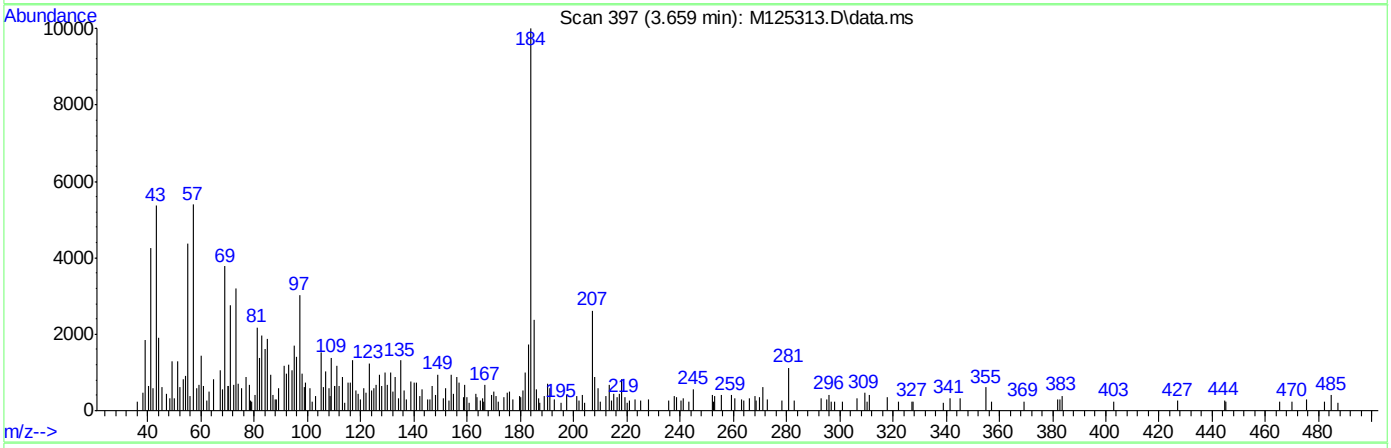
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5310\
Data File : M125313.D
Acq On : 19 Jun 2016 7:53 am
Operator : kristis
Sample : dftpp
Misc : op94571,em5310,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 07:58:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mThu May 12 09:34:28 2016
QLast Update : Thu May 12 09:34:28 2016
Response via : Continuing Cal File:





TIC: M125313.D\data.ms

(3) PP-DDT (MC)

3.660min (-3.660) 0.00ppm

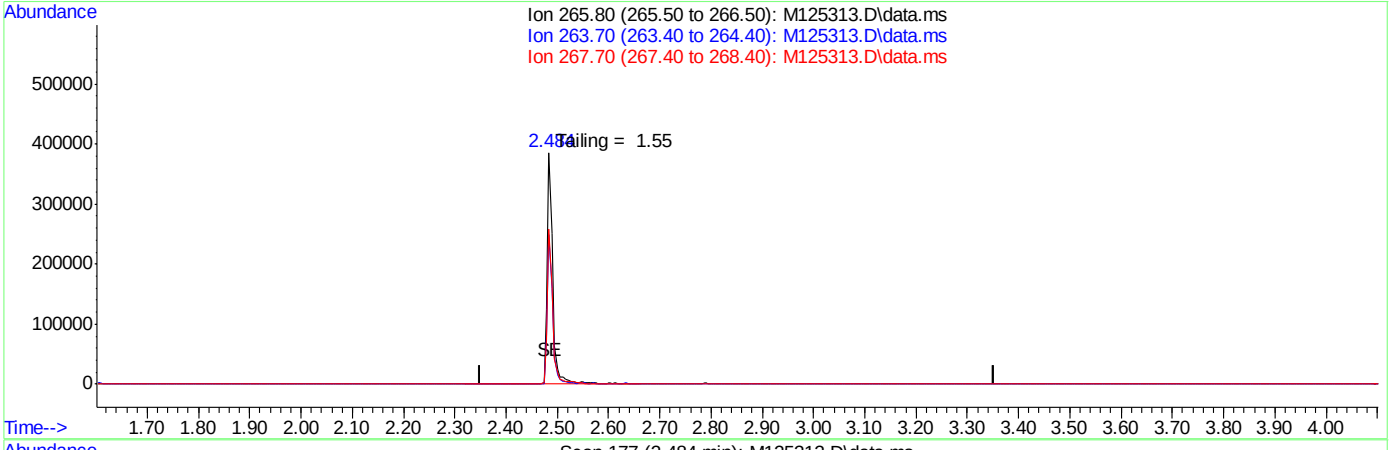
response 0

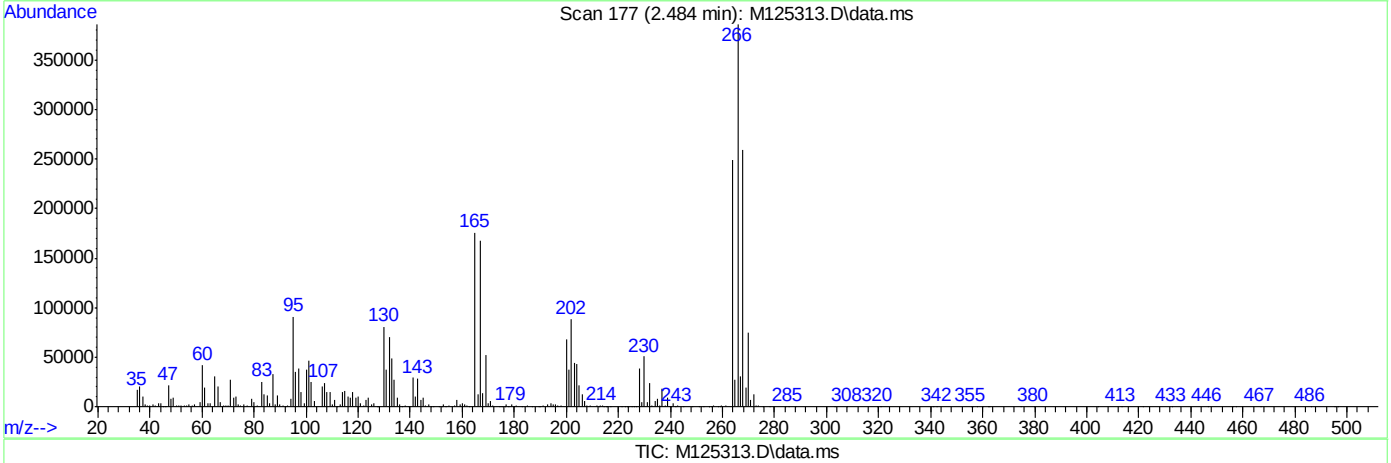
Ion	Exp%	Act%
235.00	100	0.00
165.00	46.90	0.00#
237.00	64.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5310\
Data File : M125313.D
Acq On : 19 Jun 2016 7:53 am
Operator : kristis
Sample : dftpp
Misc : op94571,em5310,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 19 07:58:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mThu May 12 09:34:28 2016
QLast Update : Thu May 12 09:34:28 2016
Response via : Continuing Cal File:





TIC: M125313.D\data.ms

(1) Pentachlorophenol (MC)

2.852min 0.00ppm d

response 0

Ion	Exp%	Act%
265.80	100	0.00
263.70	61.60	0.00
267.70	61.70	0.00
0.00	0.00	0.00

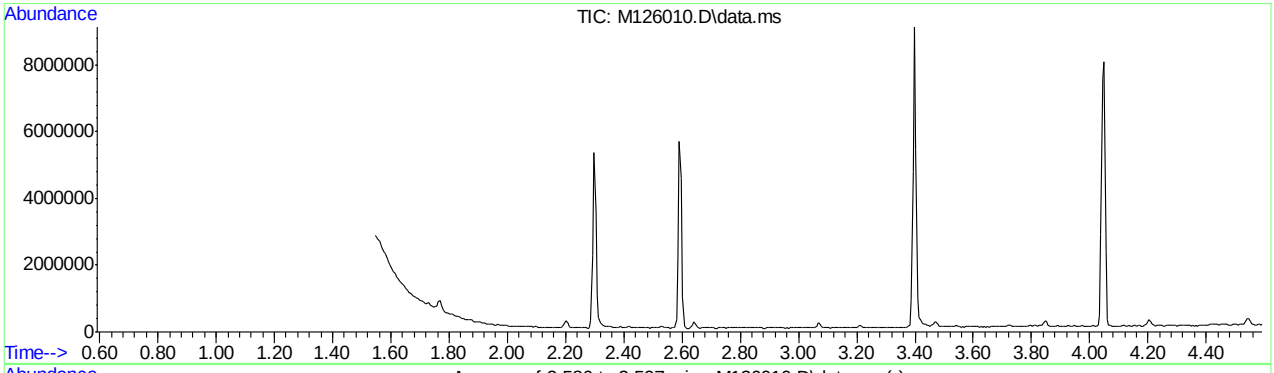
SGS ACCUTEST JC23654

DFTPPR

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126010.D
Acq On : 11 Jul 2016 10:04 am
Operator : ashleyd
Sample : dftpp
Misc : op95217,em5342
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mMon Jun 27 07:37:44 2016
Last Update : Mon Jun 27 07:37:44 2016



AutoFind: Scans 196, 197, 198; Background Corrected with Scan 190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.8	199684	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.0	253527	PASS
70	69	0.00	2	0.2	384	PASS
127	198	40	60	52.9	252844	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	478058	PASS
199	198	5	9	6.7	32226	PASS
275	198	10	30	22.3	106368	PASS
365	198	1	100	2.3	11171	PASS
441	443	0.10	100	65.8	30925	PASS
442	198	40	100	49.3	235482	PASS
443	442	17	23	20.0	47020	PASS

SGS ACCUTEST JC23654

Average of 2.586 to 2.597 min.: M126010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	199	50.15	55458	62.10	3033	74.10	23663
36.25	314	51.10	199684	63.05	7803	75.10	37626
37.05	647	52.15	11331	63.95	320	76.20	9158
38.15	3930	53.10	813	64.20	599	77.10	233833
39.10	16553	55.15	218	65.10	4628	78.10	15142
40.10	137	56.15	7239	66.05	240	79.10	17154
41.95	392	57.10	15485	67.20	1324	80.05	12159
44.10	192	58.00	186	69.05	253527	81.05	16600
45.05	427	60.10	45	70.10	384	82.00	4179
48.00	75	60.65	615	71.05	342	83.10	3753
49.20	2495	61.15	2536	73.15	1159	84.05	328

Average of 2.586 to 2.597 min.: M126010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.05	2752	96.15	1959	105.05	5202	118.10	4569
86.05	4855	96.45	105	106.00	1415	119.20	1069
87.10	2756	97.15	353	107.05	68666	120.05	949
87.95	179	98.05	19340	108.05	11398	120.65	179
88.10	415	99.05	16146	108.85	834	121.05	330
89.95	70	100.05	761	110.05	133554	121.20	158
91.05	3028	101.10	9091	111.05	19689	122.10	3137
92.05	4262	101.95	124	112.10	1940	123.05	7929
93.05	29704	102.75	254	113.10	1133	124.00	2801
94.10	1784	103.00	3325	116.15	2684	125.05	2937
95.15	453	104.05	5694	117.05	56669	127.00	252844

Average of 2.586 to 2.597 min.: M126010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.05	19364	137.15	4023	145.25	451	152.10	232
129.00	98175	137.75	127	146.10	2128	153.05	3553
130.05	8028	138.15	79	147.15	5653	154.00	2711
131.10	1378	139.05	1003	148.00	14682	155.05	5258
131.95	194	140.10	1601	149.10	2608	156.00	8752
132.05	694	141.00	10113	149.85	201	157.05	2062
133.15	184	142.05	4661	150.20	779	157.95	440
134.05	2206	143.05	2119	151.05	412	158.20	1378
135.10	7511	144.05	655	151.25	825	159.05	1198
135.85	786	144.65	152	151.65	119	160.05	3411
136.15	2640	144.95	683	151.90	486	161.00	5289

Average of 2.586 to 2.597 min.: M126010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
161.95	1521	171.00	966	181.10	6073	188.15	1966
163.00	173	171.25	364	181.75	130	189.00	4619
163.90	648	172.00	1912	182.05	631	190.15	680
164.25	245	173.10	3473	182.25	291	191.10	2692
165.05	4595	174.05	4406	182.65	338	192.05	5811
166.05	3245	175.10	10443	182.85	145	193.10	6442
167.05	23501	176.10	2577	183.15	262	194.10	1464
167.95	10643	177.00	3751	184.15	765	194.75	174
169.00	1672	178.10	1741	185.05	9008	195.15	717
169.95	663	179.00	17704	186.05	66064	196.05	15522
170.55	511	180.10	10724	187.05	18484	198.05	478058

Average of 2.586 to 2.597 min.: M126010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
199.05	32226	208.75	214	218.85	160	229.00	5306
200.05	2650	209.00	944	219.10	624	229.90	933
200.85	733	210.10	2287	219.95	386	231.05	2766
201.50	2024	211.05	4636	221.05	25846	231.80	245

DFTPPM.M Mon Jul 11 11:13:07 2016 MSM

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201.85	1346	212.10	813	222.00	4251	232.55	139
203.10	2847	213.15	412	223.00	7316	233.15	234
204.10	19688	214.15	316	224.05	64831	234.00	1957
205.05	29857	215.00	1242	225.05	16439	235.00	2555
206.05	118605	216.10	2900	226.05	452	236.00	997
207.05	14986	217.00	28171	227.05	26761	237.10	2427
207.95	4331	218.10	4563	228.05	3968	237.75	107

Average of 2.586 to 2.597 min.: M126010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
238.15	26	247.90	367	253.45	313	262.75	114
238.90	802	248.30	452	255.05	247358	263.85	543
240.05	1278	248.90	1018	256.05	34605	265.00	5811
241.00	1207	249.15	751	257.00	3054	265.85	467
242.00	3153	250.15	430	258.00	15224	266.05	696
243.15	2457	251.15	367	259.05	2532	267.00	336
244.05	50765	251.65	519	259.85	312	268.15	173
245.15	6419	252.05	484	260.15	579	268.85	198
246.05	9123	252.50	1124	260.95	278	269.95	93
247.05	1303	253.10	758	261.15	213	270.45	78
247.15	1143	253.25	1414	262.05	166	271.05	839

Average of 2.586 to 2.597 min.: M126010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
271.90	822	282.25	287	290.45	327	297.00	4726
273.00	7521	282.55	126	290.85	126	298.05	220
274.00	21795	282.75	116	291.10	432	300.45	109
275.05	106368	283.10	294	292.00	509	301.15	78
276.05	12422	283.90	609	292.35	102	302.00	223
277.05	8495	285.10	1553	292.95	1262	302.75	293
277.85	807	285.95	564	293.15	1045	303.05	4158
278.20	1071	287.35	98	293.80	416	304.05	703
278.90	410	288.15	120	294.25	171	304.95	101
281.05	189	288.95	333	294.80	99	305.15	197
281.80	96	290.05	463	296.05	29209	305.95	79

Average of 2.586 to 2.597 min.: M126010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
306.75	196	313.95	192	321.95	85	331.15	118
307.85	215	314.15	1480	323.05	10932	331.45	99
308.15	348	315.00	2806	324.00	2258	332.00	464
308.90	234	315.65	197	325.15	294	333.10	1612
309.55	78	316.05	1837	325.35	73	334.10	6326
310.00	454	316.35	100	325.90	393	334.95	760
310.85	95	317.15	107	327.00	2311	335.15	629
311.25	175	318.95	107	327.95	918	335.95	184
311.85	68	319.95	224	329.05	320	336.55	96
312.15	85	320.35	94	329.65	117	337.05	69
313.05	382	321.00	1174	330.05	222	338.85	106

Average of 2.586 to 2.597 min.: M126010.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
339.15	89	352.10	2795	363.35	287	374.00	246
339.95	335	352.85	1455	364.05	119	377.55	106
341.00	1145	354.10	2837	365.05	11171	382.15	150
342.15	308	355.15	59	365.95	1322	383.00	1634
345.35	195	357.10	509	367.00	224	383.95	382
346.00	1481	359.05	106	368.25	95	384.45	88
346.85	367	359.75	88	369.15	123	385.15	401
347.35	134	360.85	194	370.10	785	385.95	98
348.85	82	362.25	180	371.05	571	387.15	113
350.85	477	362.65	274	372.00	3889	390.05	894
351.95	183	362.95	131	373.05	1273	390.75	116

Average of 2.586 to 2.597 min.: M126010.D\data.ms

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dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
391.00	617	403.00	1984	414.55	83	425.10	304
391.80	450	403.95	1147	415.00	589	427.20	241
392.15	151	405.05	302	416.55	114	427.60	250
393.05	239	407.75	76	416.95	145	428.15	224
393.80	172	407.95	181	417.20	177	428.75	354
394.05	89	409.75	106	419.75	159	429.55	83
394.55	97	410.25	147	420.10	207	429.85	45
394.85	116	410.65	124	421.05	2362	431.75	223
397.05	156	411.55	69	422.00	2210	432.85	605
400.95	261	411.95	88	423.05	15076	433.25	148
402.05	1279	412.90	256	424.10	2673	433.55	437

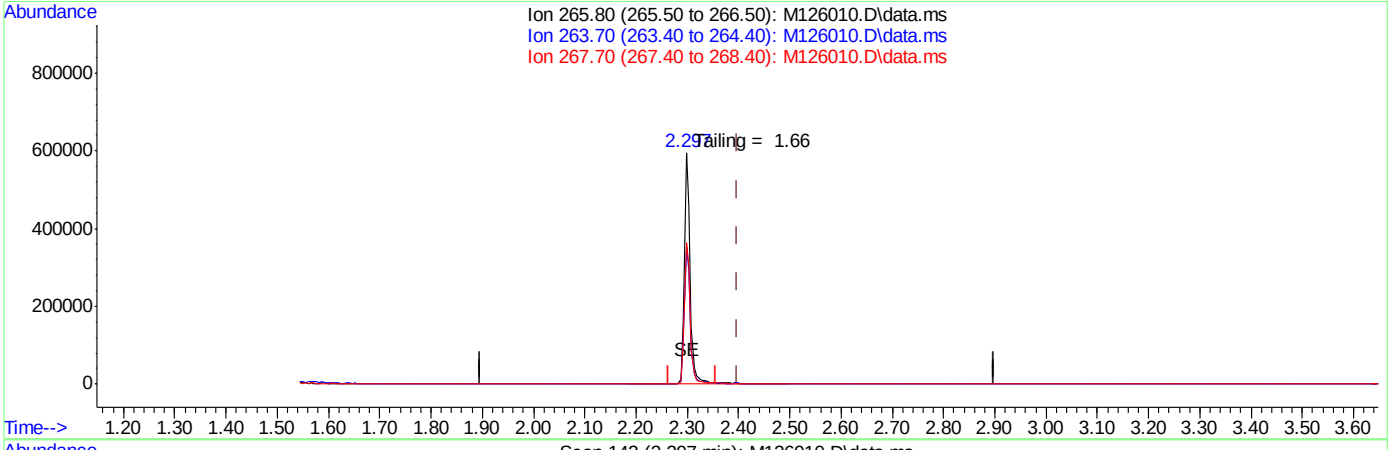
Average of 2.586 to 2.597 min.: M126010.D\data.ms
dftpp
Modified:subtracted

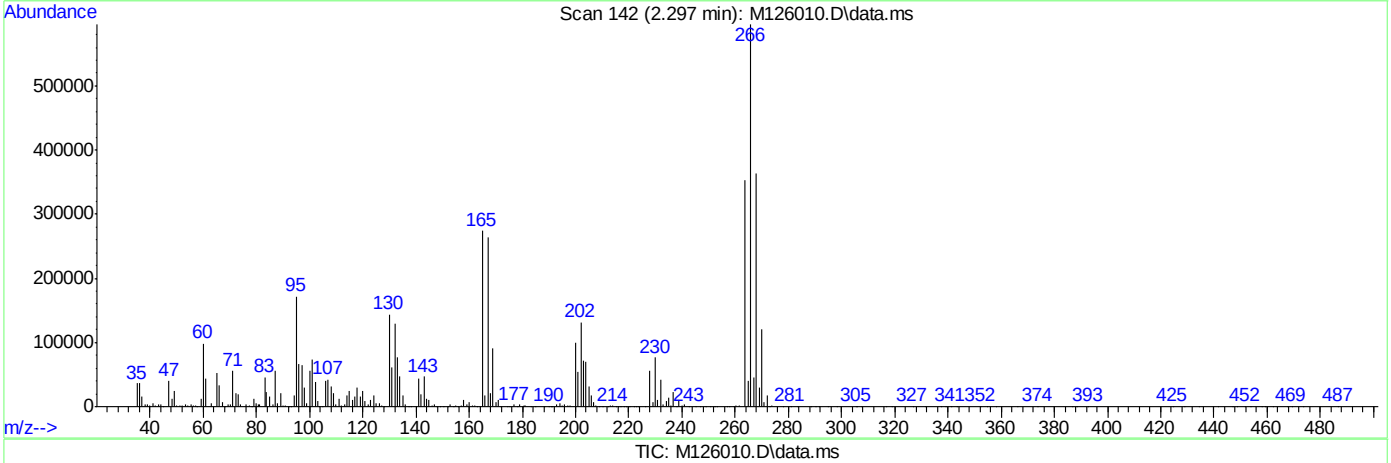
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
434.25	219	439.75	399	460.45	82	486.55	109
434.45	259	441.00	30925	461.65	92	488.40	241
435.00	310	442.05	235482	463.05	165	498.05	175
435.25	97	443.05	47020	463.85	83		
435.85	460	444.05	3572	464.65	136		
436.15	142	444.95	601	478.75	68		
436.65	111	446.75	103	479.75	88		
436.85	169	451.25	130	482.45	96		
437.15	307	452.65	67	483.50	189		
438.30	443	453.10	228	484.35	101		
439.25	259	455.45	80	485.75	83		

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126010.D
Acq On : 11 Jul 2016 10:04 am
Operator : ashleyd
Sample : dftpp
Misc : op95217,em5342
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 10:09:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mMon Jun 27 07:37:44 2016
QLast Update : Mon Jun 27 07:37:44 2016
Response via : Continuing Cal File:





(1) Pentachlorophenol (MC)

2.297min (-0.101) 0.00ppm

response 476328

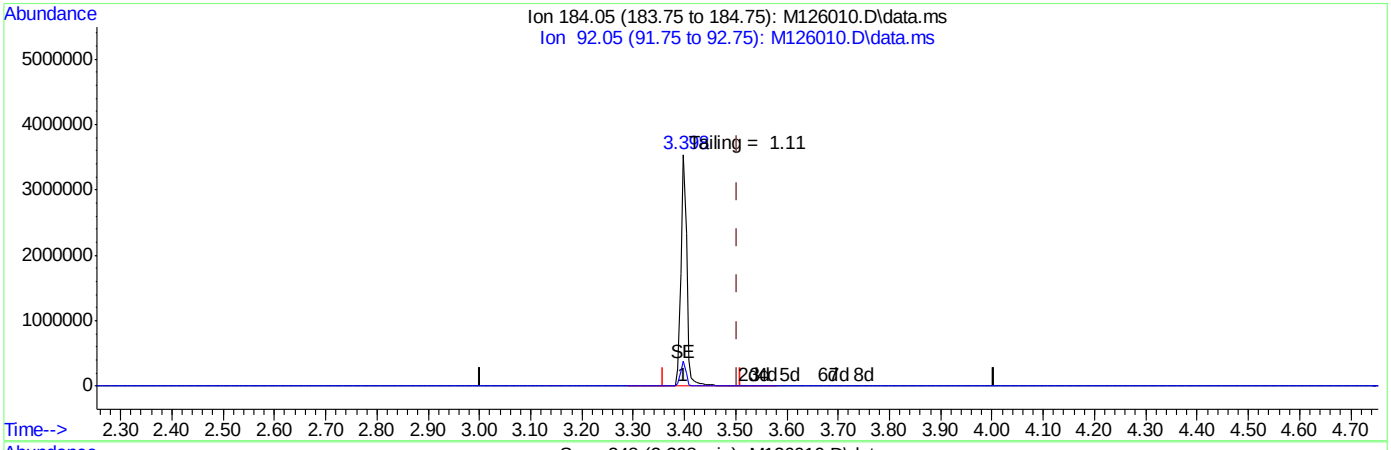
Ion	Exp%	Act%
265.80	100	100
263.70	63.90	59.13
267.70	64.30	60.93
0.00	0.00	0.00

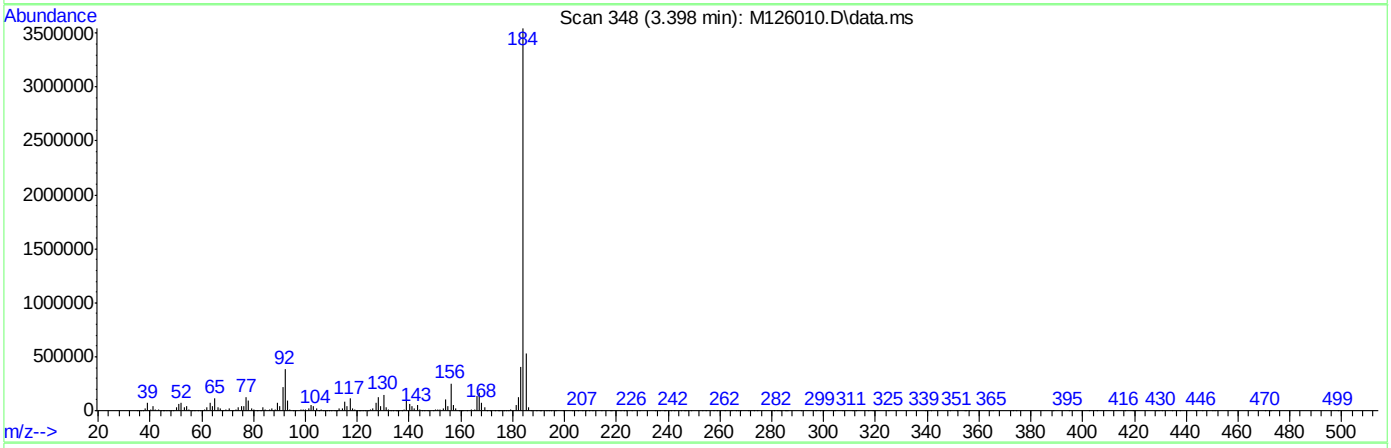
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126010.D
Acq On : 11 Jul 2016 10:04 am
Operator : ashleyd
Sample : dftpp
Misc : op95217,em5342
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 10:09:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mMon Jun 27 07:37:44 2016
QLast Update : Mon Jun 27 07:37:44 2016
Response via : Continuing Cal File:





TIC: M126010.D\data.ms

(2) Benzidine (M)

3.398min (-0.106) 0.00ppm

response 2812717

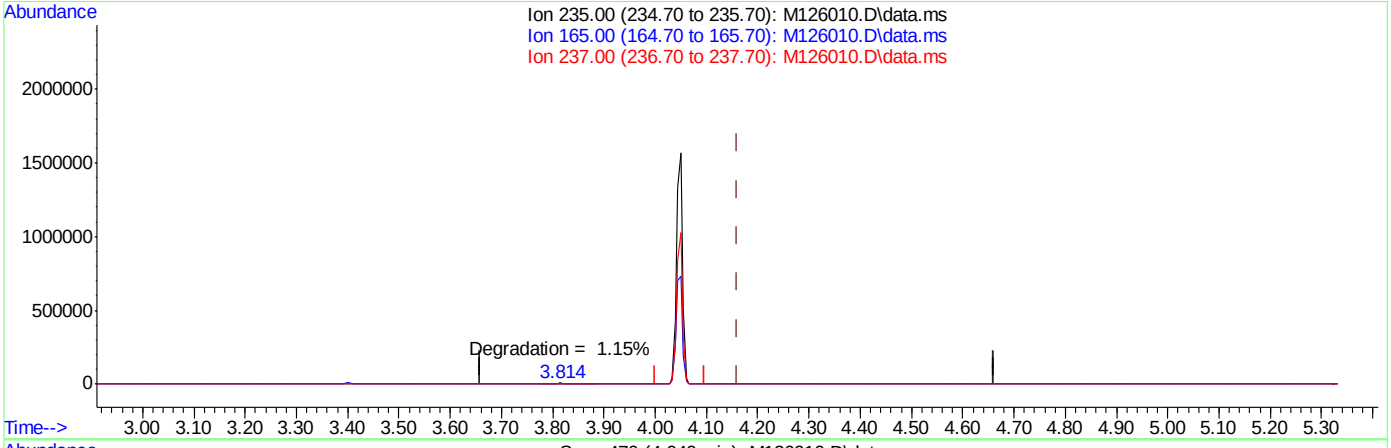
Ion	Exp%	Act%
184.05	100	100
92.05	8.60	10.93
0.00	0.00	0.00
0.00	0.00	0.00

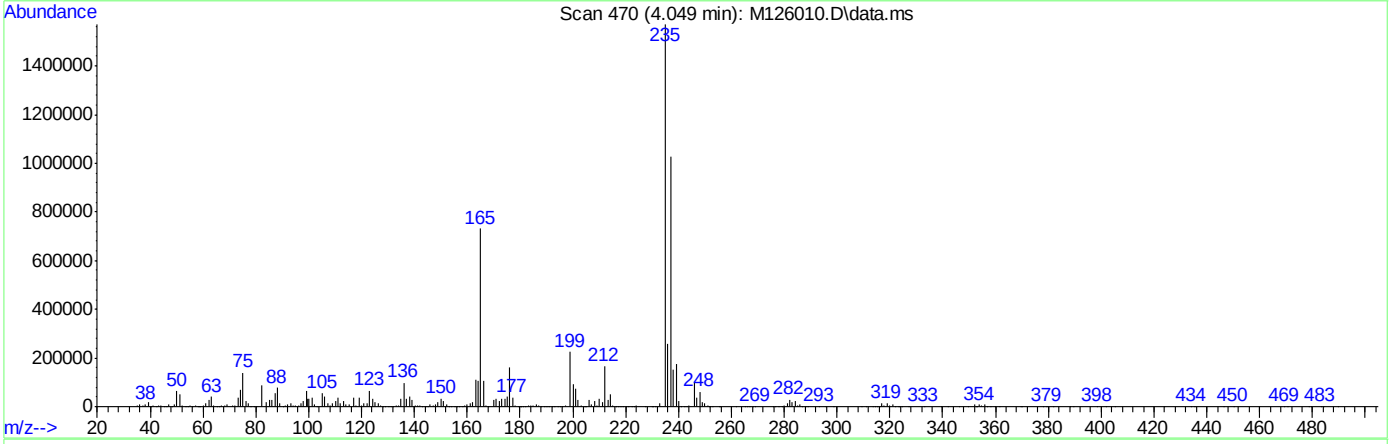
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126010.D
Acq On : 11 Jul 2016 10:04 am
Operator : ashleyd
Sample : dftpp
Misc : op95217,em5342
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 11 10:09:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\DFTPPM.M
Quant Title : Semi Volatile Extractables by GC/MS rxi-5silms 30mMon Jun 27 07:37:44 2016
QLast Update : Mon Jun 27 07:37:44 2016
Response via : Continuing Cal File:





TIC: M126010.D\data.ms

(3) PP-DDT (MC)

4.049min (-0.111) 0.00ppm

response 1268148

Ion	Exp%	Act%
235.00	100	100
165.00	44.10	46.54
237.00	66.10	65.40
0.00	0.00	0.00

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62371.D
Acq On : 20 Jun 2016 6:49 pm
Operator : ashleyd
Sample : ic2942-0.2
Misc : op94419a,e3m2942
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:38:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:37:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	746360	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	1132165	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1784341	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	1292564	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	519849	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
4) Phenol-d5	6.345	99	829923	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
7) Nitrobenzene-d5	7.952	82	635385	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
15) 2-Fluorobiphenyl	11.537	172	1446223	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
20) 2,4,6-Tribromophenol	14.422	330	119847	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
28) Terphenyl-d14	18.867	244	1119414	4.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.00%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	9938	0.20	ppm	# 72
5) Phenol	6.370	94	225453	1.00	ppm	# 76
6) bis(2-Chloroethyl)ether	6.515	93	34022	0.20	ppm	# 65
8) Nitrobenzene	7.989	77	36647	0.20	ppm	# 60
9) Naphthalene	9.383	128	97044	0.20	ppm	93
10) Hexachlorobutadiene	9.684	225	15095	0.20	ppm	78
11) 2-Methylnaphthalene	10.743	141	52067	0.20	ppm	75
12) 1-Methylnaphthalene	10.948	141	56526	0.20	ppm	70
13) Hexachlorocyclopentadiene	11.112	237	17898	0.40	ppm	81
16) Acenaphthylene	12.527	152	88333	0.20	ppm	98
17) Acenaphthene	12.898	153	58820	0.20	ppm	95
18) 4,6-dinitro-2-methylph...	14.083	198	8809	1.00	ppm	68
19) Fluorene	13.932	166	66597	0.20	ppm	89
22) Hexachlorobenzene	15.065	284	18430	0.20	ppm	96
23) Pentachlorophenol	15.467	266	25357	1.00	ppm	98
24) Phenanthrene	15.853	178	92098	0.20	ppm	100
25) Anthracene	15.946	178	80458	0.20	ppm	100
26) Fluoranthene	18.110	202	104719	0.20	ppm	100
27) Pyrene	18.496	202	99859	0.20	ppm	99
29) Benzo[a]anthracene	20.582	228	79934	0.20	ppm	99
30) Chrysene	20.644	228	85863	0.20	ppm	99
32) Benzo[b]fluoranthene	22.245	252	91730	0.20	ppm	97
33) Benzo[k]fluoranthene	22.283	252	86718	0.20	ppm	97
34) Benzo[a]pyrene	22.697	252	86961	0.20	ppm	99
35) Indeno[1,2,3-cd]pyrene	24.258	276	75545	0.20	ppm	96
36) Dibenz[a,h]anthracene	24.295	278	61064	0.20	ppm	70
37) Benzo[g,h,i]perylene	24.672	276	69114	0.20	ppm	99

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62371.D
Acq On : 20 Jun 2016 6:49 pm
Operator : ashleyd
Sample : ic2942-0.2
Misc : op94419a,e3m2942
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:38:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:37:54 2016
Response via : Initial Calibration

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

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

7.6.1

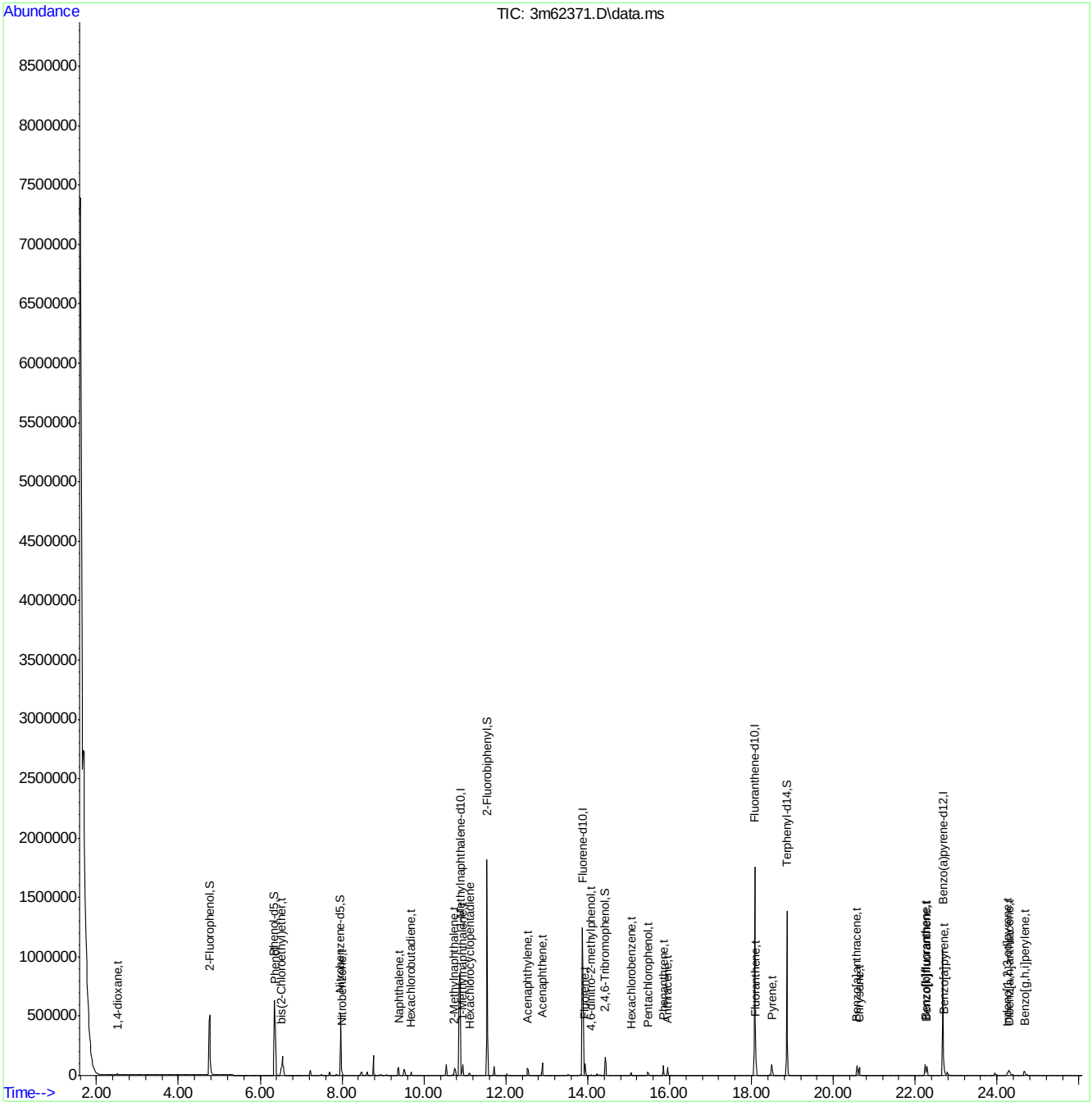
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62371.D
Acq On : 20 Jun 2016 6:49 pm
Operator : ashleyd
Sample : ic2942-0.2
Misc : op94419a,e3m2942
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 21:38:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:37:54 2016
Response via : Initial Calibration



M3M2942SIM.M Mon Jun 20 21:38:23 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62372.D
Acq On : 20 Jun 2016 7:23 pm
Operator : ashleyd
Sample : ic2942-0.1
Misc : op94419a,e3m2942
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:38:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:26 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	687709	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	1021527	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1617402	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	1150136	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	215637	1.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.60%	
4) Phenol-d5	6.345	99	342725	1.79	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.58%	
7) Nitrobenzene-d5	7.971	82	253595	1.73	ppm	0.02
Spiked Amount 50.000			Recovery	=	3.46%	
15) 2-Fluorobiphenyl	11.537	172	599071	1.84	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.68%	
20) 2,4,6-Tribromophenol	14.422	330	39741	1.47	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.94%	
28) Terphenyl-d14	18.867	244	435469	1.72	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.44%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	4052	0.09	ppm #	73
5) Phenol	6.369	94	93421	0.45	ppm #	76
6) bis(2-Chloroethyl)ether	6.515	93	14129	0.09	ppm #	65
8) Nitrobenzene	7.989	77	14905	0.09	ppm #	58
9) Naphthalene	9.383	128	39406	0.09	ppm	93
10) Hexachlorobutadiene	9.684	225	6208	0.09	ppm	77
11) 2-Methylnaphthalene	10.743	141	19304	0.08	ppm	74
12) 1-Methylnaphthalene	10.948	141	23378	0.09	ppm #	69
13) Hexachlorocyclopentadiene	11.112	237	6480	0.16	ppm	80
16) Acenaphthylene	12.527	152	33748	0.08	ppm	97
17) Acenaphthene	12.898	153	22436	0.08	ppm	94
18) 4,6-dinitro-2-methylph...	14.083	198	2442	0.31	ppm #	1
19) Fluorene	13.932	166	26055	0.09	ppm	88
22) Hexachlorobenzene	15.065	284	7350	0.09	ppm	98
23) Pentachlorophenol	15.467	266	6279	0.27	ppm	95
24) Phenanthrene	15.853	178	35554	0.09	ppm	99
25) Anthracene	15.946	178	29452	0.08	ppm	98
26) Fluoranthene	18.110	202	46301	0.10	ppm	99
27) Pyrene	18.496	202	39190	0.09	ppm	99
29) Benzo[a]anthracene	20.582	228	28616	0.08	ppm	100
30) Chrysene	20.644	228	38226	0.10	ppm	100
32) Benzo[b]fluoranthene	22.245	252	30818	0.08	ppm	96
33) Benzo[k]fluoranthene	22.283	252	35762	0.09	ppm	97
34) Benzo[a]pyrene	22.697	252	36780	0.10	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.258	276	24907	0.07	ppm	95
36) Dibenz[a,h]anthracene	24.295	278	19720	0.07	ppm	66
37) Benzo[g,h,i]perylene	24.672	276	24545	0.08	ppm	98

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62372.D
Acq On : 20 Jun 2016 7:23 pm
Operator : ashleyd
Sample : ic2942-0.1
Misc : op94419a,e3m2942
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:38:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:26 2016
Response via : Initial Calibration

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

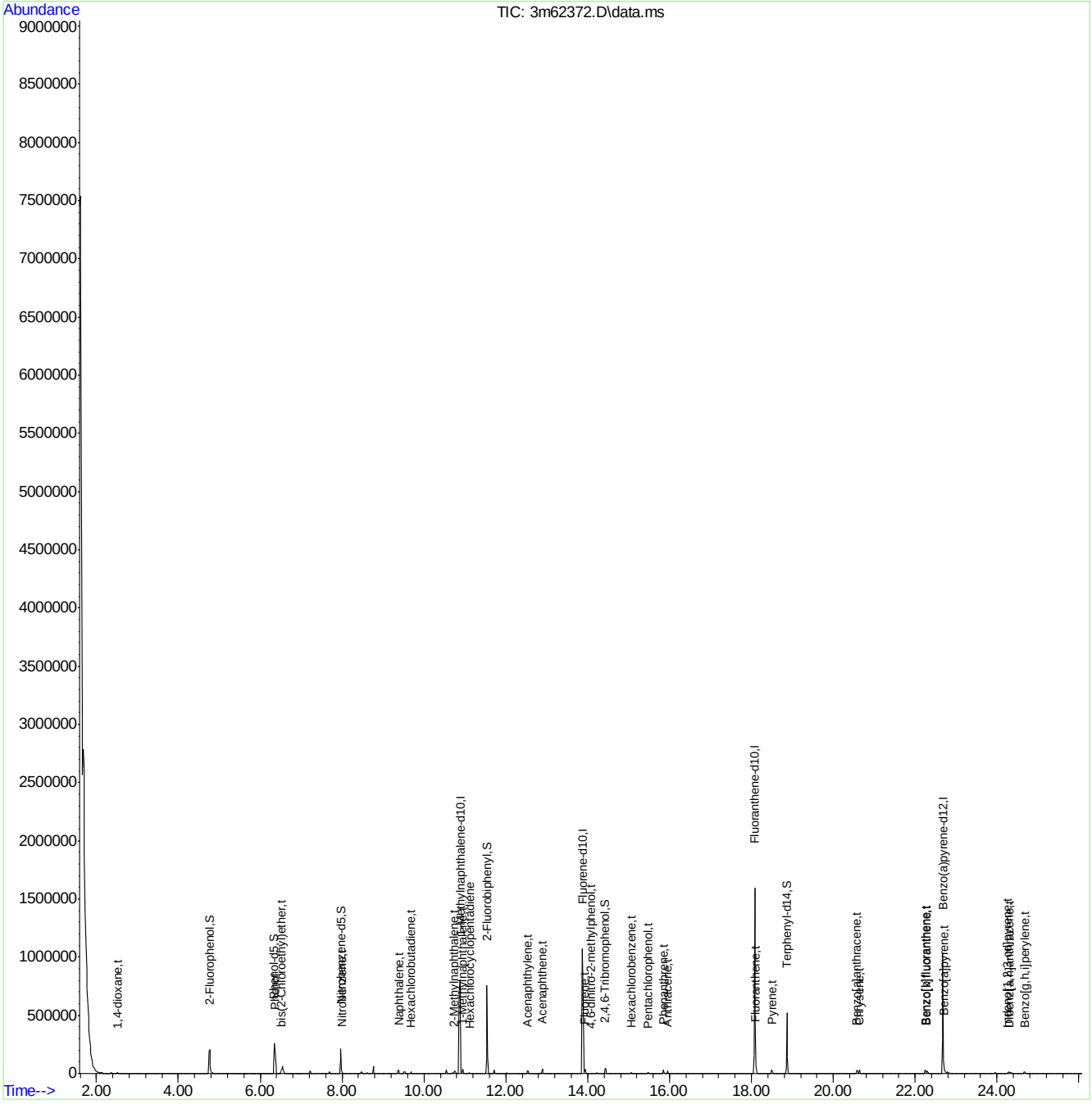
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62372.D
Acq On : 20 Jun 2016 7:23 pm
Operator : ashleyd
Sample : ic2942-0.1
Misc : op94419a,e3m2942
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 21:38:32 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:26 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62373.D
Acq On : 20 Jun 2016 7:56 pm
Operator : ashleyd
Sample : icc2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 21:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	560953	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	738238	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1136326	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	795917	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	1770750	19.08	ppm	0.00
Spiked Amount 50.000			Recovery = 38.16%			
4) Phenol-d5	6.357	99	2788469	18.86	ppm	0.01
Spiked Amount 50.000			Recovery = 37.72%			
7) Nitrobenzene-d5	7.971	82	2324446	20.86	ppm	0.00
Spiked Amount 50.000			Recovery = 41.72%			
15) 2-Fluorobiphenyl	11.537	172	4893460	21.64	ppm	0.00
Spiked Amount 50.000			Recovery = 43.28%			
20) 2,4,6-Tribromophenol	14.422	330	484189	28.57	ppm	0.00
Spiked Amount 50.000			Recovery = 57.14%			
28) Terphenyl-d14	18.867	244	3770409	22.77	ppm	0.00
Spiked Amount 50.000			Recovery = 45.54%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	34156	0.97	ppm #	72
5) Phenol	6.370	94	779251	4.84	ppm #	80
6) bis(2-Chloroethyl)ether	6.515	93	116885	0.96	ppm #	66
8) Nitrobenzene	7.989	77	134103	1.03	ppm #	59
9) Naphthalene	9.383	128	337949	0.99	ppm	94
10) Hexachlorobutadiene	9.684	225	51291	0.96	ppm	77
11) 2-Methylnaphthalene	10.743	141	169641	0.96	ppm	72
12) 1-Methylnaphthalene	10.948	141	203303	1.01	ppm	72
13) Hexachlorocyclopentadiene	11.112	237	70680	2.35	ppm	78
16) Acenaphthylene	12.542	152	318177	1.20	ppm	90
17) Acenaphthene	12.898	153	208912	1.18	ppm	92
18) 4,6-dinitro-2-methylph...	14.083	198	49338	10.64	ppm	74
19) Fluorene	13.932	166	228671	1.13	ppm	87
22) Hexachlorobenzene	15.065	284	65163	1.18	ppm	96
23) Pentachlorophenol	15.467	266	114448	9.17	ppm	99
24) Phenanthrene	15.853	178	333014	1.23	ppm	99
25) Anthracene	15.946	178	299136	1.29	ppm	98
26) Fluoranthene	18.110	202	359096	1.09	ppm	100
27) Pyrene	18.496	202	346998	1.17	ppm	98
29) Benzo[a]anthracene	20.582	228	261540	1.15	ppm	99
30) Chrysene	20.644	228	290022	1.07	ppm	100
32) Benzo[b]fluoranthene	22.245	252	290938	1.17	ppm	95
33) Benzo[k]fluoranthene	22.283	252	296199	1.15	ppm	95
34) Benzo[a]pyrene	22.697	252	274207	1.05	ppm	97
35) Indeno[1,2,3-cd]pyrene	24.258	276	247701	1.22	ppm	99
36) Dibenz[a,h]anthracene	24.295	278	197993	1.22	ppm	91
37) Benzo[g,h,i]perylene	24.672	276	223523	1.17	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62373.D
Acq On : 20 Jun 2016 7:56 pm
Operator : ashleyd
Sample : icc2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 21:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:51 2016
Response via : Initial Calibration

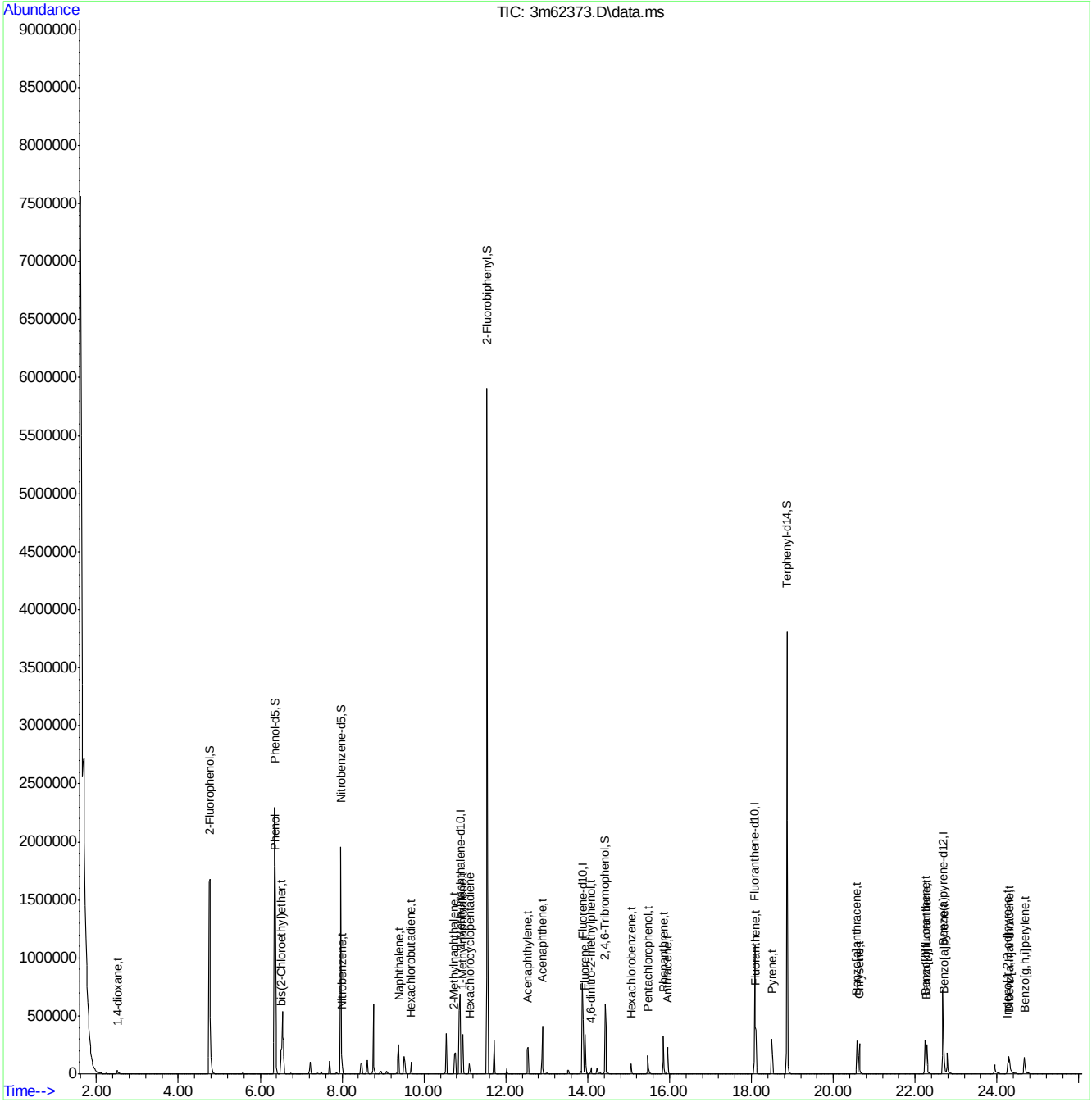
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62373.D
Acq On : 20 Jun 2016 7:56 pm
Operator : ashleyd
Sample : icc2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 21:38:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:38:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62374.D
Acq On : 20 Jun 2016 8:30 pm
Operator : ashleyd
Sample : ic2942-0.5
Misc : op94419a,e3m2942
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 21:39:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	524241	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	698845	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1076504	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	714394	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	866880	10.15	ppm	0.00
Spiked Amount 50.000			Recovery = 20.30%			
4) Phenol-d5	6.345	99	1391997	10.27	ppm	-0.01
Spiked Amount 50.000			Recovery = 20.54%			
7) Nitrobenzene-d5	7.952	82	1132793	10.73	ppm	-0.02
Spiked Amount 50.000			Recovery = 21.46%			
15) 2-Fluorobiphenyl	11.537	172	2460723	11.19	ppm	0.00
Spiked Amount 50.000			Recovery = 22.38%			
20) 2,4,6-Tribromophenol	14.422	330	218010	11.89	ppm	0.00
Spiked Amount 50.000			Recovery = 23.78%			
28) Terphenyl-d14	18.867	244	1853991	11.30	ppm	0.00
Spiked Amount 50.000			Recovery = 22.60%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	16484	0.51	ppm	75
5) Phenol	6.369	94	386917	2.60	ppm #	78
6) bis(2-Chloroethyl)ether	6.515	93	57628	0.51	ppm #	68
8) Nitrobenzene	7.989	77	63935	0.52	ppm #	60
9) Naphthalene	9.383	128	165765	0.52	ppm	94
10) Hexachlorobutadiene	9.684	225	25095	0.51	ppm	77
11) 2-Methylnaphthalene	10.763	141	82525	0.51	ppm #	71
12) 1-Methylnaphthalene	10.948	141	100435	0.53	ppm	73
13) Hexachlorocyclopentadiene	11.112	237	31790	1.07	ppm	79
16) Acenaphthylene	12.542	152	147905	0.55	ppm	90
17) Acenaphthene	12.898	153	101641	0.57	ppm	93
18) 4,6-dinitro-2-methylph...	14.083	198	17820	2.95	ppm	67
19) Fluorene	13.932	166	113108	0.57	ppm	88
22) Hexachlorobenzene	15.065	284	31826	0.57	ppm	97
23) Pentachlorophenol	15.467	266	41546	2.75	ppm	99
24) Phenanthrene	15.853	178	159982	0.58	ppm	100
25) Anthracene	15.946	178	140300	0.58	ppm	99
26) Fluoranthene	18.110	202	172862	0.54	ppm	100
27) Pyrene	18.496	202	158726	0.53	ppm	98
29) Benzo[a]anthracene	20.582	228	117144	0.52	ppm	98
30) Chrysene	20.644	228	144335	0.55	ppm	99
32) Benzo[b]fluoranthene	22.245	252	117056	0.50	ppm	93
33) Benzo[k]fluoranthene	22.283	252	138073	0.57	ppm	95
34) Benzo[a]pyrene	22.697	252	112327	0.47	ppm	97
35) Indeno[1,2,3-cd]pyrene	24.258	276	102481	0.52	ppm	97
36) Dibenz[a,h]anthracene	24.295	278	82981	0.53	ppm	55
37) Benzo[g,h,i]perylene	24.672	276	97296	0.54	ppm	99

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62374.D
Acq On : 20 Jun 2016 8:30 pm
Operator : ashleyd
Sample : ic2942-0.5
Misc : op94419a,e3m2942
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 21:39:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:23 2016
Response via : Initial Calibration

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

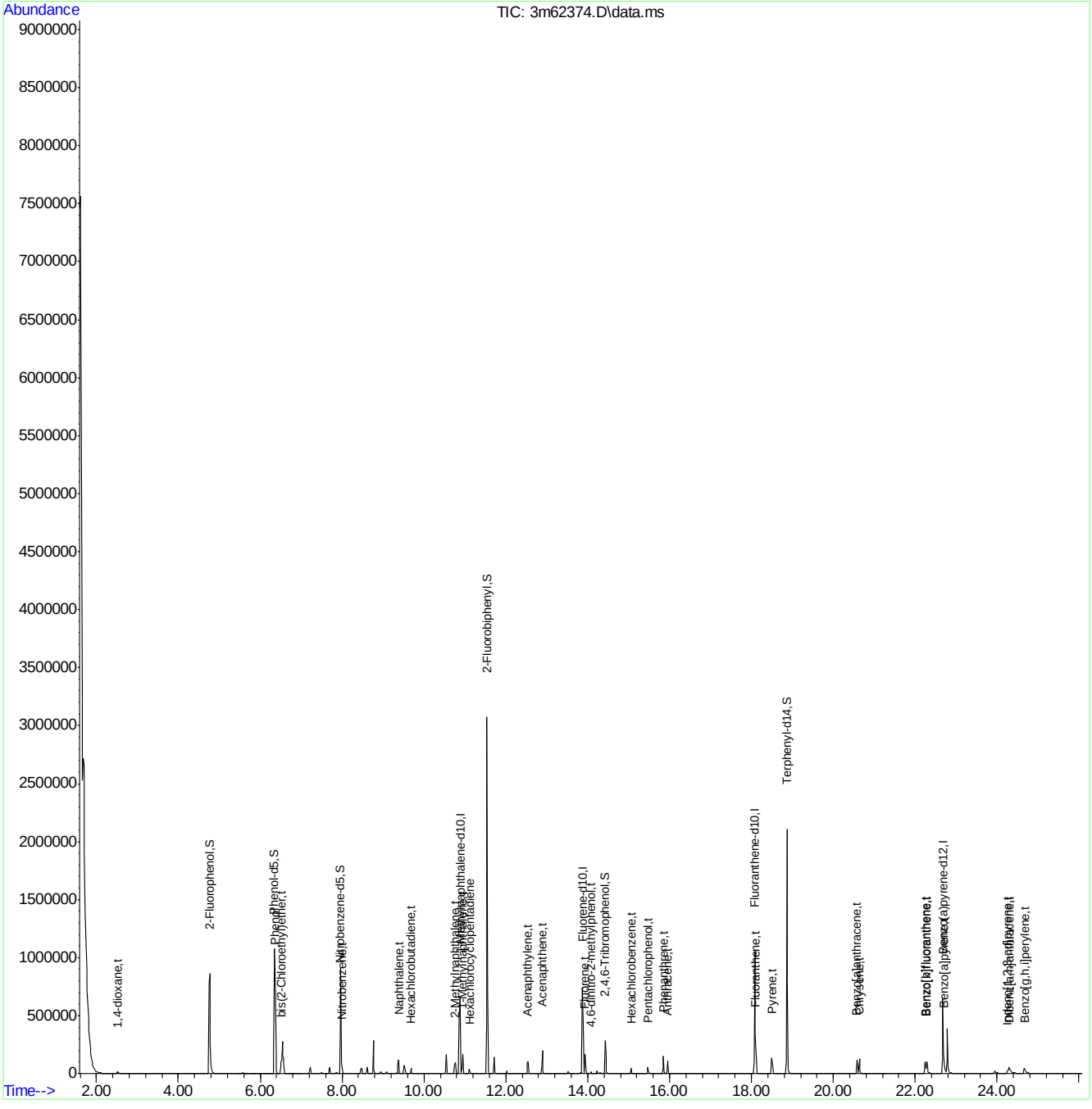
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62374.D
Acq On : 20 Jun 2016 8:30 pm
Operator : ashleyd
Sample : ic2942-0.5
Misc : op94419a,e3m2942
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 21:39:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:23 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62376.D
Acq On : 20 Jun 2016 9:36 pm
Operator : ashleyd
Sample : ic2942-0.02
Misc : op94419a,e3m2942
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 22:16:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:50 2016
Response via : Initial Calibration

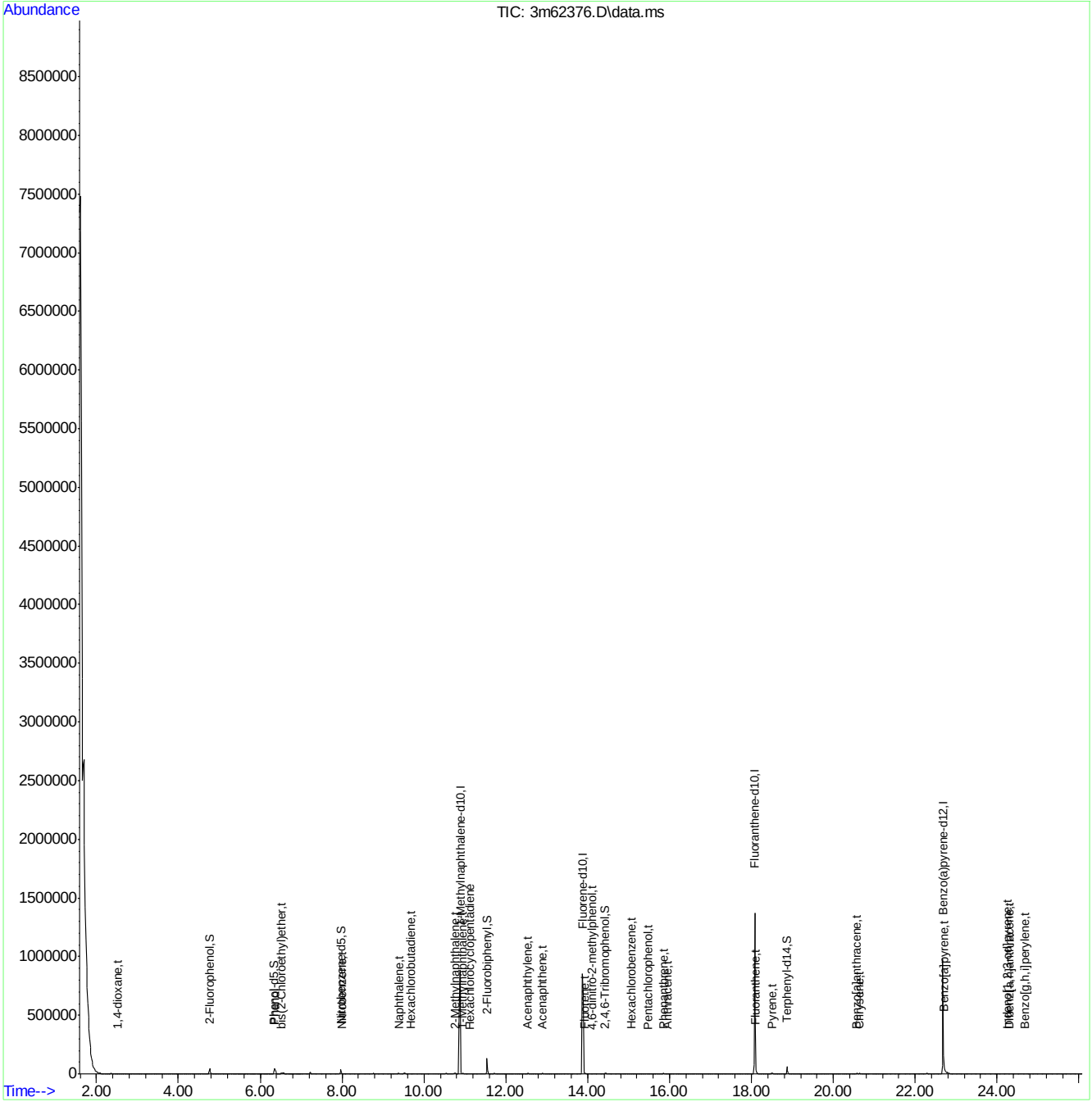
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	638422	4.00	ppm	0.00
14) Fluorene-d10	13.876	176	926948	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1476996	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	1032846	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	38852	0.37	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.74%	
4) Phenol-d5	6.345	99	60388	0.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.72%	
7) Nitrobenzene-d5	7.971	82	44329	0.34	ppm	0.02
Spiked Amount 50.000			Recovery	=	0.68%	
15) 2-Fluorobiphenyl	11.537	172	106932	0.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.72%	
20) 2,4,6-Tribromophenol	14.422	330	5432	0.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.42%	
28) Terphenyl-d14	18.867	244	64698	0.28	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.56%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	953	0.02	ppm	81
5) Phenol	6.370	94	16612	0.09	ppm #	87
6) bis(2-Chloroethyl)ether	6.515	93	2558	0.02	ppm	90
8) Nitrobenzene	7.989	77	2448	0.02	ppm #	52
9) Naphthalene	9.383	128	7469	0.02	ppm	94
10) Hexachlorobutadiene	9.684	225	1118	0.02	ppm	73
11) 2-Methylnaphthalene	10.763	141	6160	0.03	ppm	74
12) 1-Methylnaphthalene	10.948	141	4549	0.02	ppm	74
13) Hexachlorocyclopentadiene	11.112	237	831	0.02	ppm #	76
16) Acenaphthylene	12.542	152	5683	0.02	ppm	91
17) Acenaphthene	12.898	153	3871	0.02	ppm	90
18) 4,6-dinitro-2-methylph...	14.102	198	515	0.06	ppm #	48
19) Fluorene	13.932	166	4511	0.02	ppm	90
22) Hexachlorobenzene	15.065	284	1365	0.02	ppm	96
23) Pentachlorophenol	15.482	266	1624	0.08	ppm	91
24) Phenanthrene	15.853	178	6273	0.02	ppm	98
25) Anthracene	15.946	178	4659	0.01	ppm	98
26) Fluoranthene	18.110	202	11783	0.03	ppm	98
27) Pyrene	18.496	202	7982	0.02	ppm	98
29) Benzo[a]anthracene	20.582	228	5144	0.02	ppm	97
30) Chrysene	20.644	228	9509	0.03	ppm	96
34) Benzo[a]pyrene	22.697	252	11690	0.03	ppm	99
35) Indeno[1,2,3-cd]pyrene	24.258	276	2989	0.01	ppm	97
36) Dibenz[a,h]anthracene	24.296	278	2179	0.01	ppm	66
37) Benzo[g,h,i]perylene	24.672	276	3139	0.01	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62376.D
Acq On : 20 Jun 2016 9:36 pm
Operator : ashleyd
Sample : ic2942-0.02
Misc : op94419a,e3m2942
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 22:16:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 21:39:50 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62377.D
Acq On : 20 Jun 2016 10:10 pm
Operator : ashleyd
Sample : ic2942-0.01
Misc : op94419a,e3m2942
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 22:55:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:16:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	601557	4.00	ppm	0.00
14) Fluorene-d10	13.875	176	867178	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1350669	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	891426	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	17307	0.18	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.36%	
4) Phenol-d5	6.345	99	27285	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
7) Nitrobenzene-d5	7.970	82	19802	0.16	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.32%	
15) 2-Fluorobiphenyl	11.537	172	47157	0.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.34%	
20) 2,4,6-Tribromophenol	14.422	330	2299	0.10	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.20%	
28) Terphenyl-d14	18.867	244	27546	0.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	0.26%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	545	0.01	ppm	# 54
5) Phenol	6.369	94	7517	0.04	ppm	# 90
6) bis(2-Chloroethyl)ether	6.514	93	1190	0.01	ppm	90
8) Nitrobenzene	7.989	77	1102	0.01	ppm	# 53
9) Naphthalene	9.383	128	3371	0.01	ppm	95
10) Hexachlorobutadiene	9.684	225	515	0.01	ppm	75
11) 2-Methylnaphthalene	10.763	141	4533	0.02	ppm	78
12) 1-Methylnaphthalene	10.947	141	2086	0.01	ppm	73
13) Hexachlorocyclopentadiene	11.112	237	333	0.01	ppm	# 71
16) Acenaphthylene	12.542	152	2520	0.01	ppm	90
17) Acenaphthene	12.897	153	1776	0.01	ppm	94
18) 4,6-dinitro-2-methylph...	14.101	198	353	0.05	ppm	# 44
22) Hexachlorobenzene	15.065	284	655	0.01	ppm	97
23) Pentachlorophenol	15.482	266	1182	0.06	ppm	96
24) Phenanthrene	15.853	178	3008	0.01	ppm	97
25) Anthracene	15.946	178	2109	0.01	ppm	98
26) Fluoranthene	18.109	202	7405	0.02	ppm	98
27) Pyrene	18.496	202	4718	0.01	ppm	96
29) Benzo[a]anthracene	20.582	228	3007	0.01	ppm	97
30) Chrysene	20.643	228	5892	0.02	ppm	98
34) Benzo[a]pyrene	22.696	252	8391	0.03	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.258	276	1281	0.01	ppm	92
36) Dibenz[a,h]anthracene	24.295	278	955	0.00	ppm	71
37) Benzo[g,h,i]perylene	24.671	276	1806	0.01	ppm	97

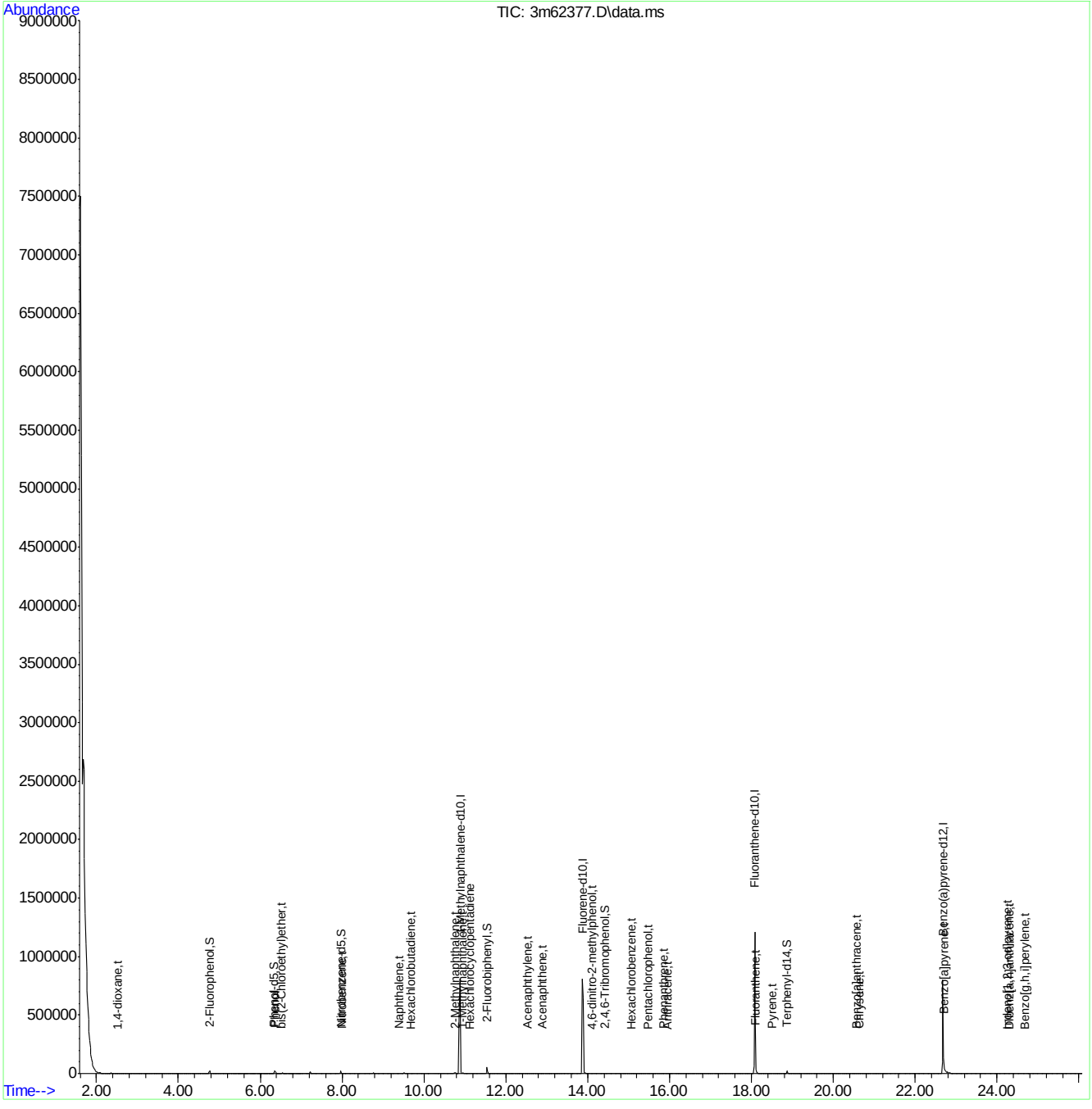
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62377.D
Acq On : 20 Jun 2016 10:10 pm
Operator : ashleyd
Sample : ic2942-0.01
Misc : op94419a,e3m2942
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 22:55:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:16:59 2016
Response via : Initial Calibration



M3M2942SIM.M Mon Jun 20 22:55:45 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62378.D
Acq On : 20 Jun 2016 10:43 pm
Operator : ashleyd
Sample : ic2942-5.0
Misc : op94419a,e3m2942
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 23:08:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:55:49 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	600602	4.00	ppm	0.00
14) Fluorene-d10	13.894	176	857773	4.00	ppm	0.02
21) Fluoranthene-d10	18.079	212	1312499	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	962800	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	8564918	87.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	174.42%	
4) Phenol-d5	6.370	99	13518401	86.47	ppm	0.02
Spiked Amount 50.000			Recovery	=	172.94%	
7) Nitrobenzene-d5	7.971	82	10955089	88.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	177.86%	
15) 2-Fluorobiphenyl	11.553	172	15352393	57.85	ppm	0.02
Spiked Amount 50.000			Recovery	=	115.70%	
20) 2,4,6-Tribromophenol	14.441	330	3140266	133.24	ppm	0.02
Spiked Amount 50.000			Recovery	=	266.48%	
28) Terphenyl-d14	18.882	244	15545206	75.25	ppm	0.02
Spiked Amount 50.000			Recovery	=	150.50%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.499	88	186962	5.00	ppm #	36
5) Phenol	6.394	94	3799210	22.48	ppm #	55
6) bis(2-Chloroethyl)ether	6.515	93	596906	4.73	ppm #	68
8) Nitrobenzene	8.008	77	693851	5.25	ppm	97
9) Naphthalene	9.383	128	1767896	4.90	ppm	95
10) Hexachlorobutadiene	9.684	225	251136	4.55	ppm	73
11) 2-Methylnaphthalene	10.763	141	887119	4.74	ppm	77
12) 1-Methylnaphthalene	10.948	141	1071882	4.94	ppm	78
13) Hexachlorocyclopentadiene	11.112	237	448305	12.94	ppm #	72
16) Acenaphthylene	12.542	152	1728196	5.57	ppm	92
17) Acenaphthene	12.898	153	1088142	5.19	ppm	87
18) 4,6-dinitro-2-methylph...	14.101	198	625697	80.76	ppm	74
19) Fluorene	13.932	166	1111209	4.54	ppm	80
22) Hexachlorobenzene	15.065	284	325659	4.83	ppm	90
23) Pentachlorophenol	15.467	266	835976	44.27	ppm	91
24) Phenanthrene	15.853	178	1641735	4.68	ppm	97
25) Anthracene	15.962	178	1645612	5.38	ppm	91
26) Fluoranthene	18.110	202	1797990	4.50	ppm	97
27) Pyrene	18.496	202	1849683	5.02	ppm	96
29) Benzo[a]anthracene	20.582	228	1395780	5.01	ppm	96
30) Chrysene	20.644	228	1549380	4.72	ppm	97
32) Benzo[b]fluoranthene	22.245	252	1461257	4.61	ppm	89
33) Benzo[k]fluoranthene	22.283	252	1521685	4.50	ppm	88
34) Benzo[a]pyrene	22.697	252	1232922	3.89	ppm	92
35) Indeno[1,2,3-cd]pyrene	24.277	276	1368173	5.14	ppm	90
36) Dibenz[a,h]anthracene	24.314	278	1102426	5.15	ppm	95
37) Benzo[g,h,i]perylene	24.672	276	1202870	4.83	ppm	100

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62378.D
Acq On : 20 Jun 2016 10:43 pm
Operator : ashleyd
Sample : ic2942-5.0
Misc : op94419a,e3m2942
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 23:08:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:55:49 2016
Response via : Initial Calibration

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

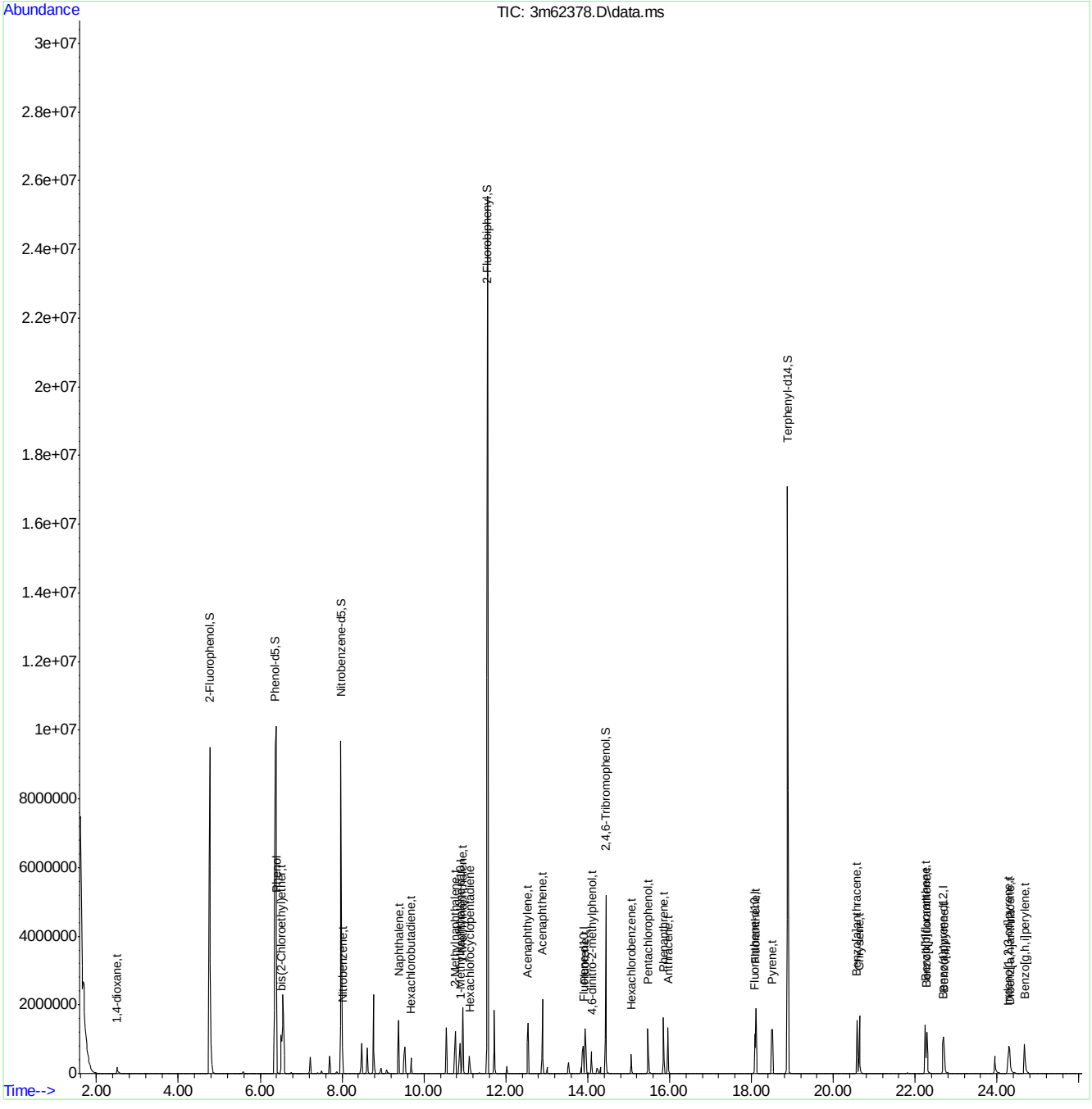
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62378.D
Acq On : 20 Jun 2016 10:43 pm
Operator : ashleyd
Sample : ic2942-5.0
Misc : op94419a,e3m2942
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 23:08:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 22:55:49 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62379.D
Acq On : 20 Jun 2016 11:16 pm
Operator : ashleyd
Sample : ic2942-2.5
Misc : op94419a,e3m2942
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 20 23:41:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:15:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	10.886	150	579707	4.00	ppm		0.00
14) Fluorene-d10	13.894	176	818906	4.00	ppm		0.00
21) Fluoranthene-d10	18.079	212	1258402	4.00	ppm		0.00
31) Benzo(a)pyrene-d12	22.678	264	930705	4.00	ppm		0.00
System Monitoring Compounds							
3) 2-Fluorophenol	4.770	112	4289950	46.44	ppm		0.00
Spiked Amount 50.000			Recovery = 92.88%				
4) Phenol-d5	6.358	99	6700399	45.64	ppm		-0.01
Spiked Amount 50.000			Recovery = 91.28%				
7) Nitrobenzene-d5	7.971	82	6516023	56.04	ppm		0.00
Spiked Amount 50.000			Recovery = 112.08%				
15) 2-Fluorobiphenyl	11.553	172	12168361	48.03	ppm		0.00
Spiked Amount 50.000			Recovery = 96.06%				
20) 2,4,6-Tribromophenol	14.441	330	1413154	58.89	ppm		0.00
Spiked Amount 50.000			Recovery = 117.78%				
28) Terphenyl-d14	18.882	244	9783853	51.97	ppm		0.00
Spiked Amount 50.000			Recovery = 103.94%				
Target Compounds							Qvalue
2) 1,4-dioxane	2.514	88	86501	2.39	ppm		75
5) Phenol	6.382	94	1899479	11.84	ppm	#	62
6) bis(2-Chloroethyl)ether	6.515	93	292148	2.42	ppm		92
8) Nitrobenzene	7.990	77	334492	2.60	ppm	#	49
9) Naphthalene	9.383	128	845708	2.44	ppm		95
10) Hexachlorobutadiene	9.684	225	123120	2.34	ppm		73
11) 2-Methylnaphthalene	10.763	141	434460	2.43	ppm		77
12) 1-Methylnaphthalene	10.948	141	511871	2.45	ppm		76
13) Hexachlorocyclopentadiene	11.112	237	204078	5.76	ppm	#	74
16) Acenaphthylene	12.542	152	819251	2.72	ppm		92
17) Acenaphthene	12.898	153	524887	2.61	ppm		87
18) 4,6-dinitro-2-methylph...	14.083	198	218107	20.39	ppm	#	1
19) Fluorene	13.932	166	541721	2.36	ppm		81
22) Hexachlorobenzene	15.065	284	158520	2.46	ppm		92
23) Pentachlorophenol	15.467	266	350600	16.78	ppm		93
24) Phenanthrene	15.853	178	810149	2.44	ppm		97
25) Anthracene	15.962	178	783808	2.63	ppm		91
26) Fluoranthene	18.110	202	873928	2.33	ppm		97
27) Pyrene	18.496	202	872904	2.47	ppm		96
29) Benzo[a]anthracene	20.582	228	627701	2.35	ppm		95
30) Chrysene	20.644	228	741917	2.38	ppm		98
32) Benzo[b]fluoranthene	22.245	252	639587	2.12	ppm		87
33) Benzo[k]fluoranthene	22.283	252	718322	2.24	ppm		87
34) Benzo[a]pyrene	22.697	252	617603	2.11	ppm		93
35) Indeno[1,2,3-cd]pyrene	24.277	276	607573	2.35	ppm		92
36) Dibenz[a,h]anthracene	24.314	278	481114	2.31	ppm		91
37) Benzo[g,h,i]perylene	24.672	276	544846	2.28	ppm		100

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62379.D
Acq On : 20 Jun 2016 11:16 pm
Operator : ashleyd
Sample : ic2942-2.5
Misc : op94419a,e3m2942
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 20 23:41:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:15:12 2016
Response via : Initial Calibration

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

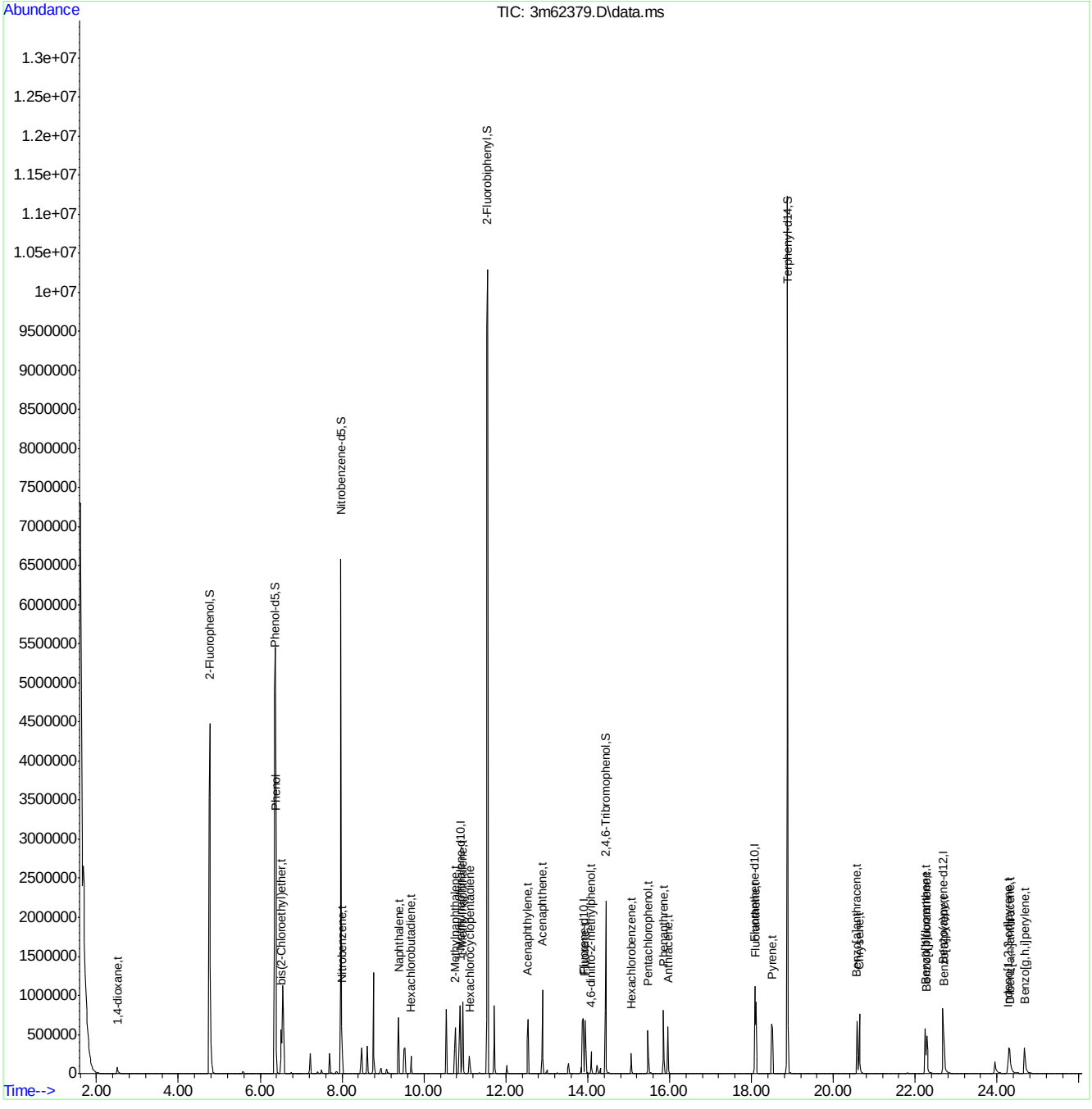
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62379.D
Acq On : 20 Jun 2016 11:16 pm
Operator : ashleyd
Sample : ic2942-2.5
Misc : op94419a,e3m2942
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 20 23:41:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:15:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62380.D
Acq On : 20 Jun 2016 11:50 pm
Operator : ashleyd
Sample : ic2942-0.05
Misc : op94419a,e3m2942
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:23:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:42:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	594761	4.00	ppm	0.00
14) Fluorene-d10	13.894	176	828012	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1294659	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	879559	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.770	112	90272	0.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.92%	
4) Phenol-d5	6.357	99	141589	0.95	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.90%	
7) Nitrobenzene-d5	7.971	82	114319	0.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.88%	
15) 2-Fluorobiphenyl	11.537	172	244695	0.96	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.92%	
20) 2,4,6-Tribromophenol	14.422	330	13226	0.53	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.06%	
28) Terphenyl-d14	18.867	244	151453	0.78	ppm	-0.02
Spiked Amount 50.000			Recovery	=	1.56%	
Target Compounds						Qvalue
2) 1,4-dioxane	2.514	88	2001	0.05	ppm	85
5) Phenol	6.370	94	38837	0.24	ppm #	87
6) bis(2-Chloroethyl)ether	6.515	93	5740	0.05	ppm	94
8) Nitrobenzene	7.989	77	6320	0.05	ppm #	51
9) Naphthalene	9.383	128	16694	0.05	ppm	95
10) Hexachlorobutadiene	9.684	225	2525	0.05	ppm	72
11) 2-Methylnaphthalene	10.763	141	9457	0.05	ppm	77
12) 1-Methylnaphthalene	10.948	141	10223	0.05	ppm	78
13) Hexachlorocyclopentadiene	11.112	237	2384	0.06	ppm	78
16) Acenaphthylene	12.542	152	12787	0.04	ppm	92
17) Acenaphthene	12.898	153	8657	0.04	ppm	89
18) 4,6-dinitro-2-methylph...	14.102	198	947	0.08	ppm	73
19) Fluorene	13.932	166	9971	0.04	ppm	85
22) Hexachlorobenzene	15.065	284	3106	0.05	ppm	92
23) Pentachlorophenol	15.482	266	2494	0.11	ppm	93
24) Phenanthrene	15.853	178	13421	0.04	ppm	97
25) Anthracene	15.962	178	10109	0.03	ppm	91
26) Fluoranthene	18.110	202	19378	0.05	ppm	97
27) Pyrene	18.496	202	13995	0.04	ppm	96
29) Benzo[a]anthracene	20.582	228	6970	0.03	ppm	97
30) Chrysene	20.644	228	13746	0.04	ppm	96
34) Benzo[a]pyrene	22.697	252	18256	0.07	ppm	98
35) Indeno[1,2,3-cd]pyrene	24.258	276	4614	0.02	ppm	98
36) Dibenz[a,h]anthracene	24.295	278	3158	0.02	ppm	75
37) Benzo[g,h,i]perylene	24.672	276	5641	0.03	ppm	97

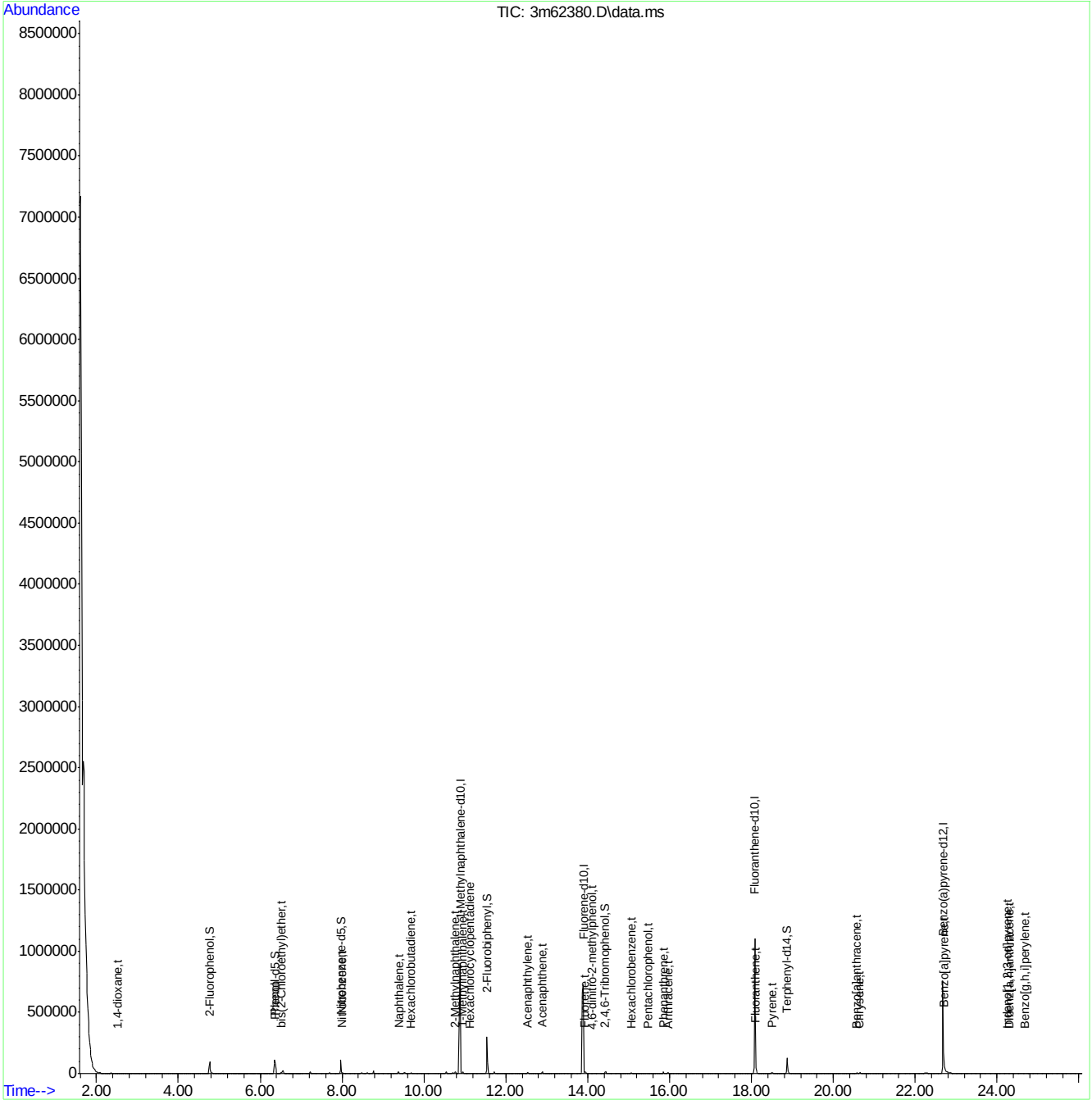
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62380.D
Acq On : 20 Jun 2016 11:50 pm
Operator : ashleyd
Sample : ic2942-0.05
Misc : op94419a,e3m2942
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:23:00 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jun 20 23:42:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62382.D
Acq On : 21 Jun 2016 12:56 am
Operator : ashleyd
Sample : icv2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 21 08:37:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.886	150	579092	4.00	ppm	0.00
14) Fluorene-d10	13.894	176	694080	4.00	ppm	0.00
21) Fluoranthene-d10	18.079	212	1041559	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.678	264	654058	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
4) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
5) Phenol	6.369	94	676200	4.28	ppm	92
18) 4,6-dinitro-2-methylph...	14.083	198	44531	4.45	ppm #	8
23) Pentachlorophenol	15.467	266	84804	4.22	ppm	90

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

7.6.10

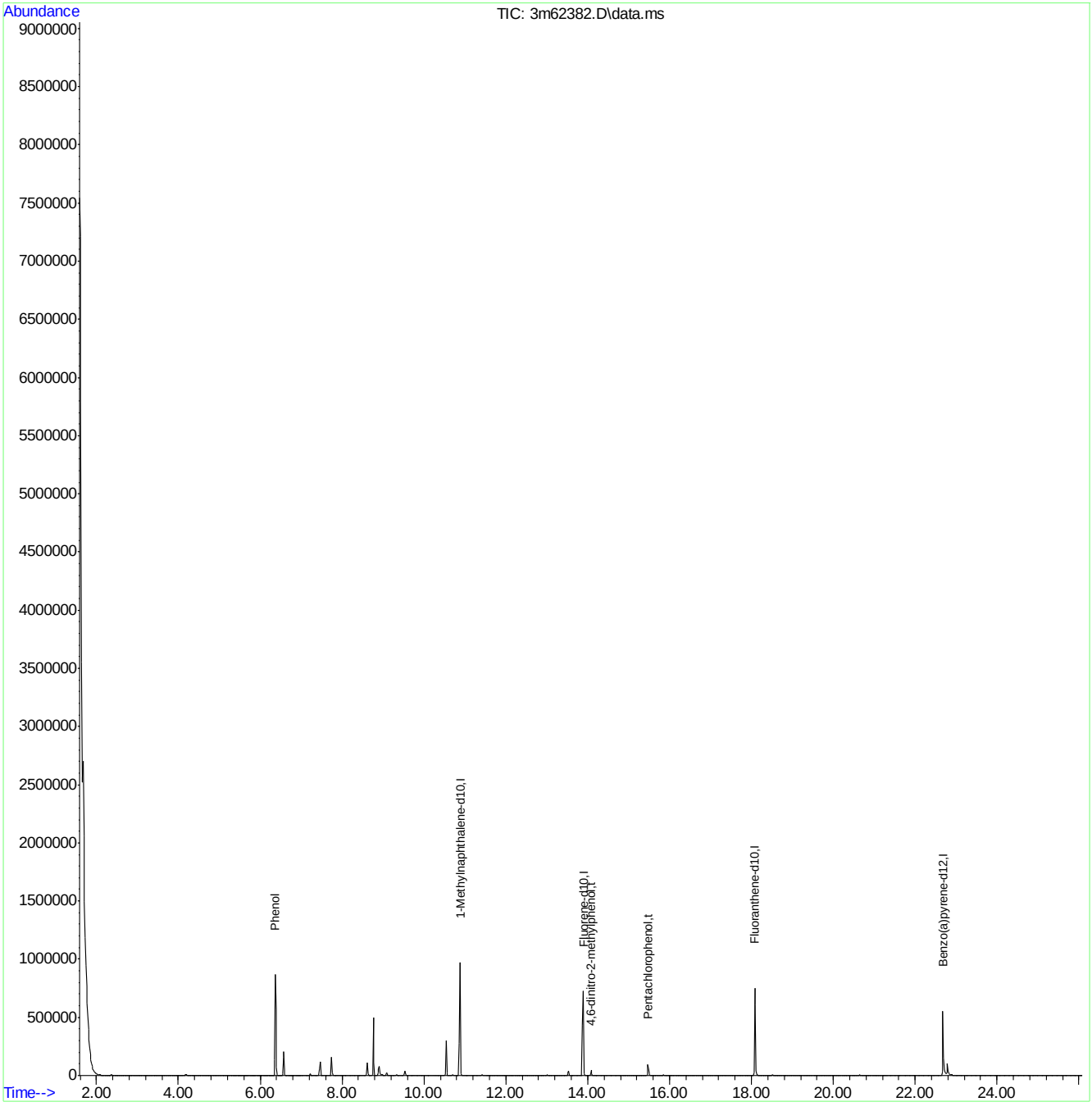
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2942\
Data File : 3m62382.D
Acq On : 21 Jun 2016 12:56 am
Operator : ashleyd
Sample : icv2942-1.0
Misc : op94419a,e3m2942
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 21 08:37:11 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration



M3M2942SIM.M Tue Jun 21 08:37:16 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62384.D
Acq On : 21 Jun 2016 9:26 am
Operator : linseyk
Sample : icv2942-1
Misc : op94419a,e3m2943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:04:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1-Methylnaphthalene-d10	10.866	150	708145	4.00 ppm	-0.02
14) Fluorene-d10	13.876	176	870402	4.00 ppm	-0.02
21) Fluoranthene-d10	18.079	212	1218863	4.00 ppm	0.00
31) Benzo(a)pyrene-d12	22.659	264	858647	4.00 ppm	-0.02
System Monitoring Compounds					
3) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
4) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
7) Nitrobenzene-d5	0.000	82	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
15) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
20) 2,4,6-Tribromophenol	0.000	330	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
28) Terphenyl-d14	0.000	244	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) 1,4-dioxane	2.514	88	45984	1.05 ppm	# 65
6) bis(2-Chloroethyl)ether	6.503	93	148876	1.02 ppm	96
8) Nitrobenzene	7.989	77	133582	0.85 ppm	85
9) Naphthalene	9.364	128	430549	1.03 ppm	99
10) Hexachlorobutadiene	9.684	225	58543	0.92 ppm	99
11) 2-Methylnaphthalene	10.743	141	232262	1.06 ppm	97
16) Acenaphthylene	12.527	152	373409	1.15 ppm	95
17) Acenaphthene	12.882	153	246586	1.17 ppm	79
19) Fluorene	13.932	166	260779	1.09 ppm	94
22) Hexachlorobenzene	15.049	284	72681	1.18 ppm	82
24) Phenanthrene	15.838	178	360070	1.16 ppm	93
25) Anthracene	15.946	178	328477	1.13 ppm	94
26) Fluoranthene	18.094	202	379785	1.05 ppm	92
27) Pyrene	18.496	202	395836	1.20 ppm	95
29) Benzo[a]anthracene	20.582	228	323807	1.30 ppm	94
30) Chrysene	20.628	228	315503	1.08 ppm	89
32) Benzo[b]fluoranthene	22.245	252	300702	1.11 ppm	97
33) Benzo[k]fluoranthene	22.283	252	299492	1.03 ppm	97
34) Benzo[a]pyrene	22.697	252	300625	1.05 ppm	97
35) Indeno[1,2,3-cd]pyrene	24.258	276	298235	1.26 ppm	95
36) Dibenz[a,h]anthracene	24.296	278	233523	1.23 ppm	81
37) Benzo[g,h,i]perylene	24.672	276	261582	1.20 ppm	98

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

7.6.11

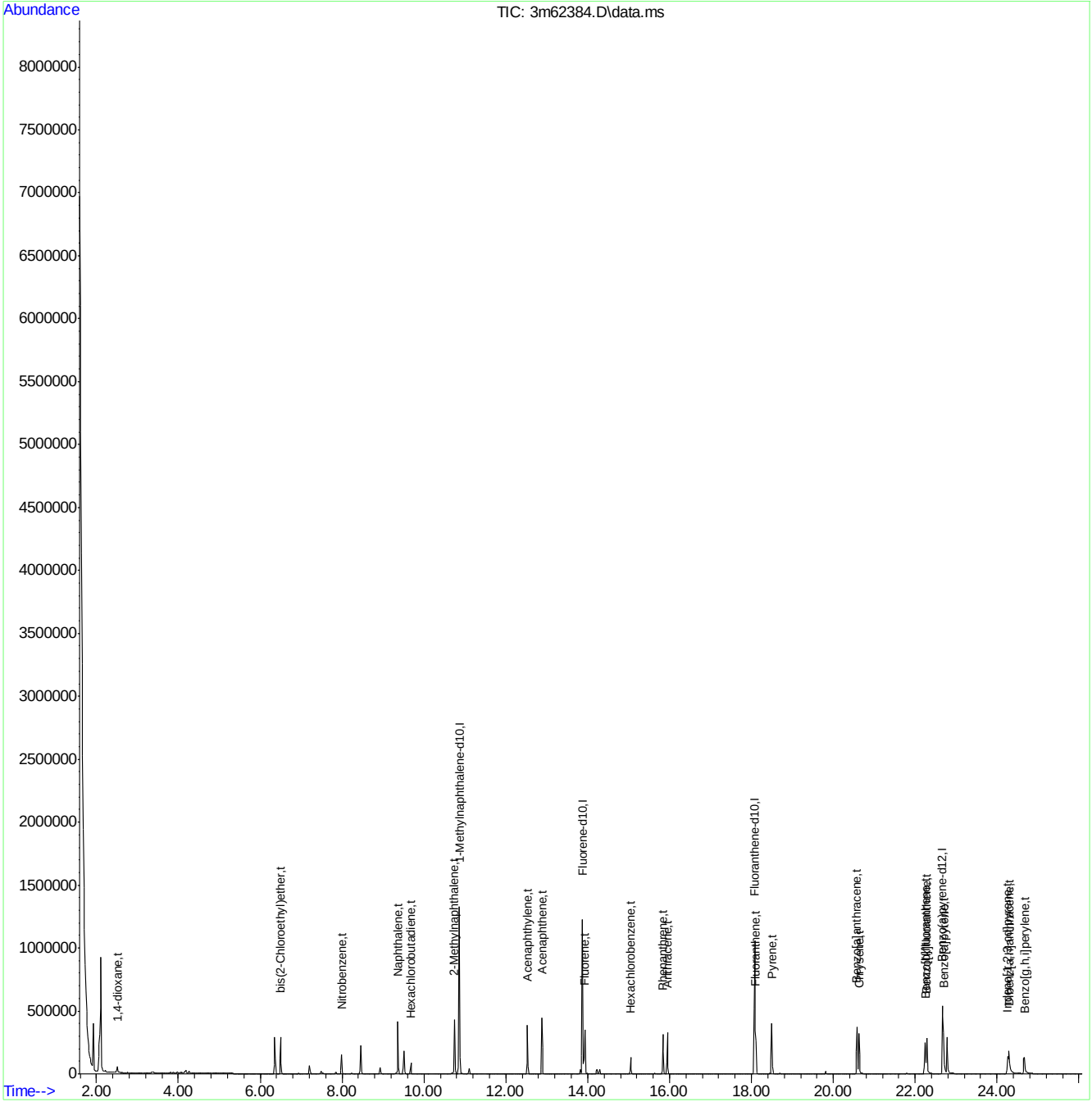
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2943\
Data File : 3m62384.D
Acq On : 21 Jun 2016 9:26 am
Operator : linseyk
Sample : icv2942-1
Misc : op94419a,e3m2943
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:04:07 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Tue Jun 21 08:25:24 2016
Response via : Initial Calibration



M3M2942SIM.M Tue Jun 21 14:12:33 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62884.D
Acq On : 11 Jul 2016 9:10 am
Operator : ashleyd
Sample : cc2942-1.0
Misc : op95160a,e3m2971
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 09:35:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	10.619	150	420993	4.00	ppm	0.00
14) Fluorene-d10	13.630	176	640558	4.00	ppm	0.00
21) Fluoranthene-d10	17.842	212	985680	4.00	ppm	0.00
31) Benzo(a)pyrene-d12	22.432	264	875046	4.00	ppm	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	4.585	112	1178546	17.87	ppm	-0.07
Spiked Amount 50.000			Recovery = 35.74%			
4) Phenol-d5	6.200	99	1767564	16.93	ppm	0.00
Spiked Amount 50.000			Recovery = 33.86%			
7) Nitrobenzene-d5	7.726	82	1627849	19.06	ppm	-0.05
Spiked Amount 50.000			Recovery = 38.12%			
15) 2-Fluorobiphenyl	11.296	172	3471738	17.70	ppm	-0.02
Spiked Amount 50.000			Recovery = 35.40%			
20) 2,4,6-Tribromophenol	14.177	330	432129	20.88	ppm	0.03
Spiked Amount 50.000			Recovery = 41.76%			
28) Terphenyl-d14	18.630	244	3043555	20.50	ppm	0.01
Spiked Amount 50.000			Recovery = 41.00%			
Target Compounds						Qvalue
2) 1,4-dioxane	2.313	88	21601	0.83	ppm	91
5) Phenol	6.212	94	474085	4.13	ppm #	84
6) bis(2-Chloroethyl)ether	6.285	93	70626	0.81	ppm	79
8) Nitrobenzene	7.763	77	88890	0.95	ppm	71
9) Naphthalene	9.138	128	215373	0.86	ppm	93
10) Hexachlorobutadiene	9.439	225	38303	1.02	ppm	79
11) 2-Methylnaphthalene	10.496	141	115287	0.89	ppm #	60
12) 1-Methylnaphthalene	10.701	141	124515	0.83	ppm	85
13) Hexachlorocyclopentadiene	10.866	237	58873	2.23	ppm	90
16) Acenaphthylene	12.279	152	224793	0.94	ppm	97
17) Acenaphthene	12.635	153	143294	0.92	ppm	94
18) 4,6-dinitro-2-methylph...	13.856	198	81073	7.40	ppm	92
19) Fluorene	13.687	166	158826	0.91	ppm	94
22) Hexachlorobenzene	14.797	284	50340	1.01	ppm	88
23) Pentachlorophenol	15.230	266	66115	3.56	ppm	92
24) Phenanthrene	15.586	178	236202	0.94	ppm	100
25) Anthracene	15.694	178	222893	0.95	ppm	100
26) Fluoranthene	17.873	202	265884	0.91	ppm	96
27) Pyrene	18.259	202	271135	1.01	ppm	94
29) Benzo[a]anthracene	20.345	228	237995	1.18	ppm	94
30) Chrysene	20.392	228	238319	1.00	ppm	88
32) Benzo[b]fluoranthene	21.999	252	244541	0.89	ppm	88
33) Benzo[k]fluoranthene	22.037	252	232210	0.78	ppm	85
34) Benzo[a]pyrene	22.451	252	231137	0.79	ppm	95
35) Indeno[1,2,3-cd]pyrene	23.974	276	262149	1.09	ppm	90
36) Dibenz[a,h]anthracene	23.993	278	211283	1.09	ppm	96
37) Benzo[g,h,i]perylene	24.350	276	230236	1.04	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62884.D
Acq On : 11 Jul 2016 9:10 am
Operator : ashleyd
Sample : cc2942-1.0
Misc : op95160a,e3m2971
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 09:35:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration

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

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

7.6.12

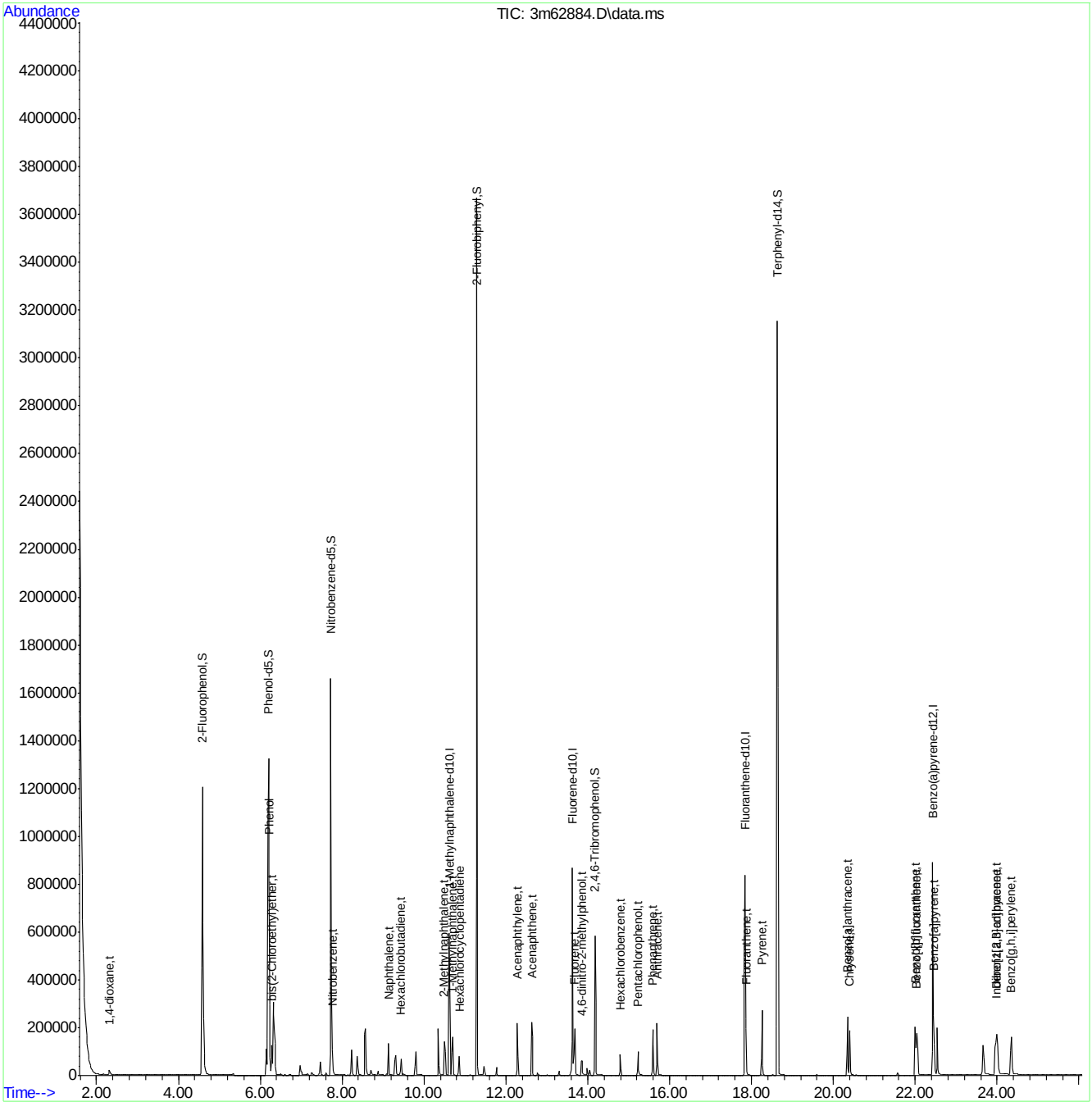
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E3M2971\
Data File : 3m62884.D
Acq On : 11 Jul 2016 9:10 am
Operator : ashleyd
Sample : cc2942-1.0
Misc : op95160a,e3m2971
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 09:35:58 2016
Quant Method : C:\MSDCHEM\1\METHODS\M3M2942SIM.M
Quant Title : Semi Volatile Extractables by GC/MS
QLast Update : Mon Jul 11 09:35:55 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/21/16 13:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:55:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	64579	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	115877	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	170187	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.547	264	145082	4.00	ppm	0.01
35) 1-Methylnaphthalene-d10a	9.786	152	64579	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	115877	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.100	112	19610	1.89	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery	=	3.78%#	
3) Phenol-d5	5.497	99	30862	1.85	ppm	0.01
Spiked Amount 50.000			Recovery	=	3.70%	
6) Nitrobenzene-d5	6.968	82	26982	1.87	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.74%	
11) 2-Fluorobiphenyl	10.430	172	47220	1.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.62%	
17) 2,4,6-Tribromophenol	13.313	330	9392	1.56	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.12%	
25) Terphenyl-d14	17.749	244	48941	1.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.62%	
Target Compounds						Qvalue
4) Phenol	5.511	94	8289	0.47	ppm	72
5) bis(2-Chloroethyl)ether	5.607	93	1248	0.09	ppm #	54
7) Naphthalene	8.314	128	4103	0.09	ppm	99
8) Hexachlorobutadiene	8.593	225	702	0.09	ppm	97
9) 2-Methylnaphthalene	9.667	142	2236	0.11	ppm	92
10) Hexachlorocyclopentadiene	10.001	237	37m	0.03	ppm	
13) Acenaphthylene	11.431	152	2799	0.08	ppm	87
14) Acenaphthene	11.764	153	1693	0.08	ppm	94
15) Dibenzofuran	12.141	168	2790	0.09	ppm	100
16) Fluorene	12.812	166	3041	0.08	ppm	94
18) Hexachlorobenzene	13.907	284	1011	0.08	ppm	96
19) Pentachlorophenol	14.359	266	1692	0.35	ppm	83
20) Phenanthrene	14.717	178	4186	0.08	ppm	98
21) Anthracene	14.830	178	3932	0.08	ppm	97
23) Fluoranthene	16.977	202	4774	0.09	ppm	99
24) Pyrene	17.372	202	4693	0.09	ppm	97
26) Benzo[a]anthracene	19.462	228	4467	0.10	ppm	95
27) Chrysene	19.518	228	4796	0.11	ppm	96
29) Benzo[b]fluoranthene	21.120	252	4753	0.09	ppm	95
30) Benzo[k]fluoranthene	21.162	252	5024	0.10	ppm	97
31) Benzo[a]pyrene	21.575	252	4913	0.10	ppm	99
32) Indeno[1,2,3-cd]pyrene	23.130	276	5025	0.09	ppm	95
33) Dibenz[a,h]anthracene	23.158	278	4213	0.09	ppm	92
34) Benzo[g,h,i]perylene	23.530	276	4414	0.09	ppm	99
36) 1,4-Dioxane	2.288	88	693	0.15	ppm #	62
37) 1-Methylnaphthalene	9.858	142	1777	0.10	ppm #	66
39) 4,6-dinitro-2-methylph...	13.027	198	963	0.19	ppm	80

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:55:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	2501	0.07	ppm	96
41) n-nitrosodiphenylamine	13.122	169	1855	0.07	ppm	94

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

7.6.13

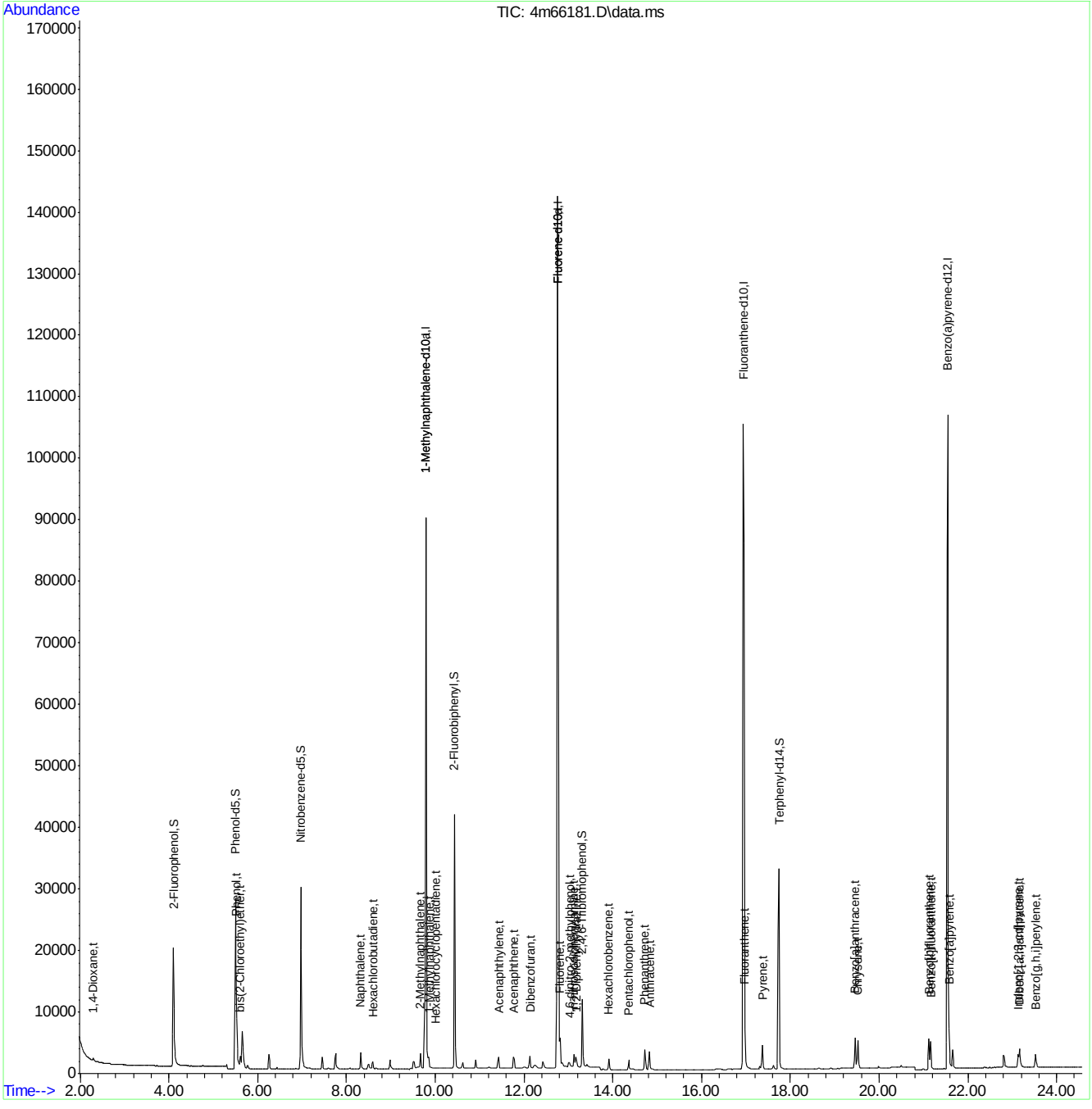
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:55:04 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



Manual Integration Approval Summary

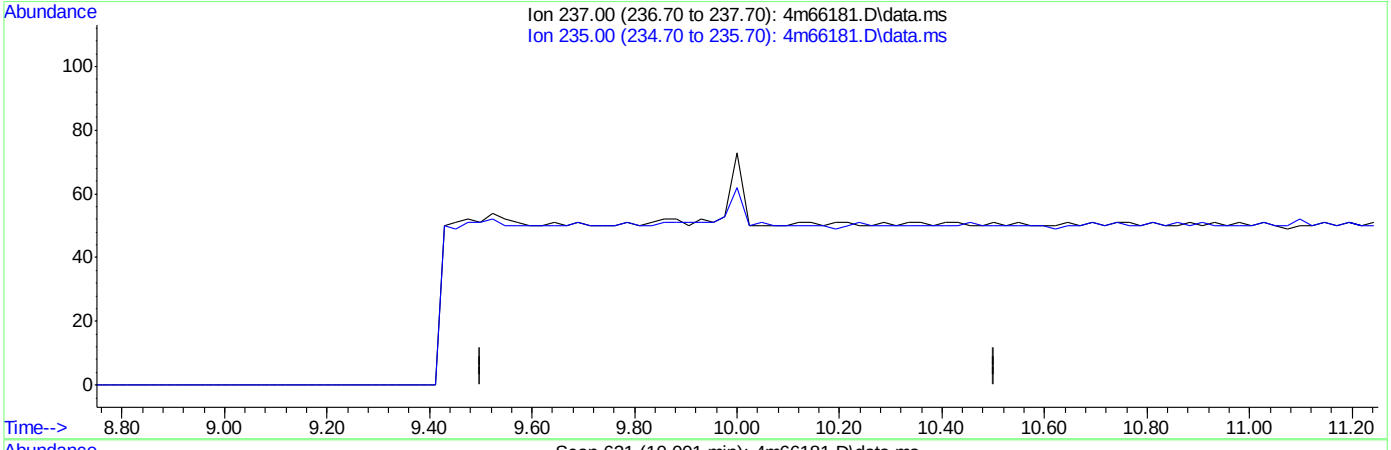
Sample Number:	E4M2974-IC2974	**Method:**	EPA 625 BY SIM
Lab FileID:	4M66181.D	**Analyst approved:**	06/21/16 08:32 Linsey Kirschmann
Injection Time:	06/20/16 23:01	**Supervisor approved:**	06/21/16 13:33 Nina Pandya

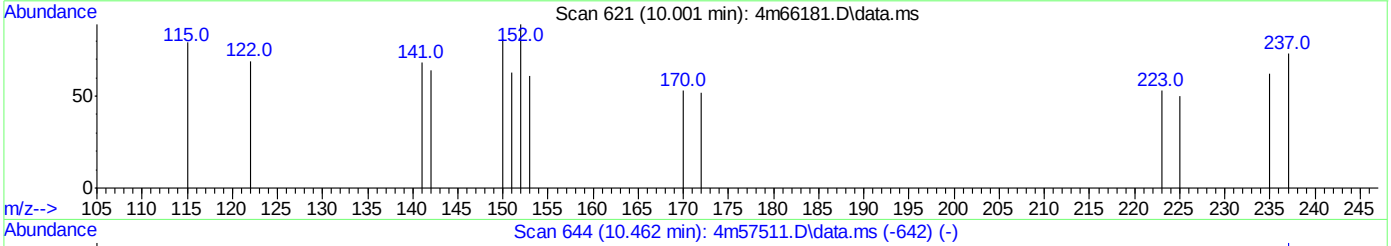
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexachlorocyclopentadiene	77-47-4		10.00	Poor instrument integration

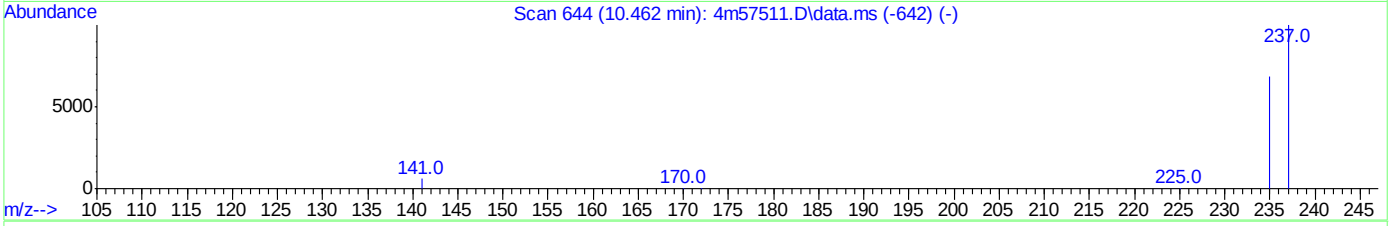
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:53:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66181.D\data.ms

(10) Hexachlorocyclopentadiene (t)

10.001min (-10.001) 0.00ppm

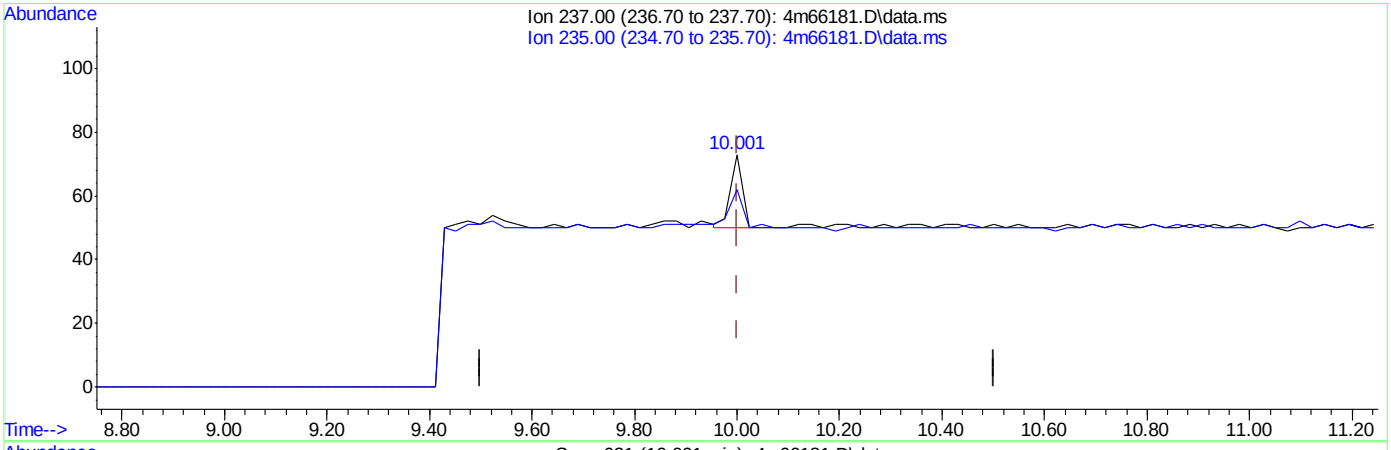
response 0

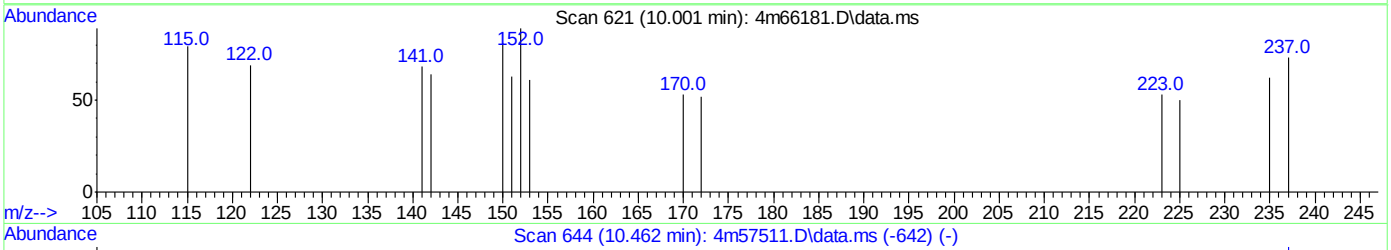
Ion	Exp%	Act%
237.00	100	0.00
235.00	45.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

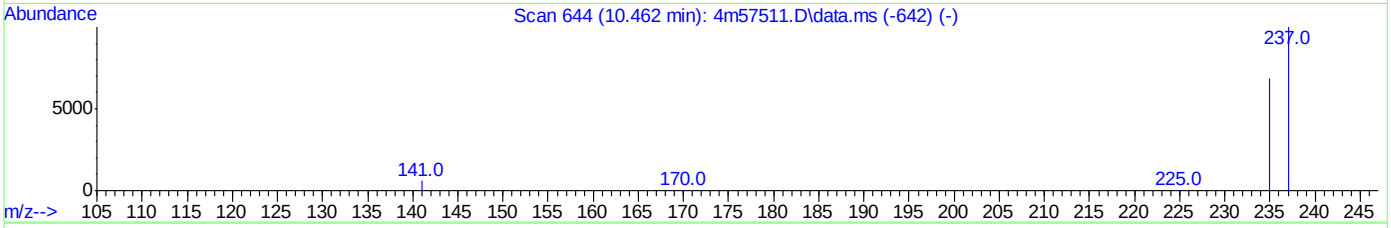
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66181.D
Acq On : 20 Jun 2016 11:01 pm
Operator : ashleyd
Sample : ic2974-0.1
Misc : op94799a,e4m2974
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 07:53:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66181.D\data.ms

(10) Hexachlorocyclopentadiene (t)

10.001min (-0.000) 0.03ppm m

response 37

Ion	Exp%	Act%
237.00	100	100
235.00	45.30	84.93#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66182.D
Acq On : 20 Jun 2016 11:31 pm
Operator : ashleyd
Sample : ic2974-0.2
Misc : op94799a,e4m2974
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 07:53:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	61294	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	113007	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	178558	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.547	264	149298	4.00	ppm	0.01
35) 1-Methylnaphthalene-d10a	9.786	152	61294	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	113007	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	42611	4.34	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery	=	8.68%#	
3) Phenol-d5	5.497	99	68267	4.32	ppm	0.01
Spiked Amount 50.000			Recovery	=	8.64%	
6) Nitrobenzene-d5	6.968	82	60266	4.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.78%	
11) 2-Fluorobiphenyl	10.431	172	110649	4.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.92%	
17) 2,4,6-Tribromophenol	13.313	330	21661	3.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.36%	
25) Terphenyl-d14	17.749	244	108442	3.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	7.66%	
Target Compounds						Qvalue
4) Phenol	5.511	94	18355	1.10	ppm	69
5) bis(2-Chloroethyl)ether	5.607	93	2632	0.20	ppm	81
7) Naphthalene	8.314	128	9200	0.21	ppm	99
8) Hexachlorobutadiene	8.593	225	1576	0.22	ppm	99
9) 2-Methylnaphthalene	9.667	142	4875	0.26	ppm	96
10) Hexachlorocyclopentadiene	10.001	237	160	0.13	ppm	95
13) Acenaphthylene	11.431	152	6261	0.19	ppm	85
14) Acenaphthene	11.764	153	3936	0.19	ppm	97
15) Dibenzofuran	12.141	168	7463	0.24	ppm	100
16) Fluorene	12.812	166	7007	0.19	ppm	98
18) Hexachlorobenzene	13.908	284	2301	0.20	ppm	98
19) Pentachlorophenol	14.360	266	3979	0.84	ppm	81
20) Phenanthrene	14.717	178	9557	0.19	ppm	99
21) Anthracene	14.830	178	8392	0.18	ppm	99
23) Fluoranthene	16.977	202	10535	0.19	ppm	99
24) Pyrene	17.372	202	10107	0.18	ppm	98
26) Benzo[a]anthracene	19.462	228	8951	0.19	ppm	98
27) Chrysene	19.518	228	9210	0.19	ppm	97
29) Benzo[b]fluoranthene	21.120	252	10031	0.18	ppm	98
30) Benzo[k]fluoranthene	21.162	252	10126	0.19	ppm	99
31) Benzo[a]pyrene	21.575	252	9644	0.19	ppm	100
32) Indeno[1,2,3-cd]pyrene	23.131	276	11253	0.19	ppm	91
33) Dibenz[a,h]anthracene	23.158	278	9253	0.19	ppm	94
34) Benzo[g,h,i]perylene	23.516	276	9715	0.19	ppm	100
36) 1,4-Dioxane	2.289	88	1167	0.26	ppm #	76
37) 1-Methylnaphthalene	9.858	142	3686	0.21	ppm #	62
39) 4,6-dinitro-2-methylph...	13.027	198	3021	0.63	ppm	79

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66182.D
Acq On : 20 Jun 2016 11:31 pm
Operator : ashleyd
Sample : ic2974-0.2
Misc : op94799a,e4m2974
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 07:53:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	6335	0.18	ppm	99
41) n-nitrosodiphenylamine	13.122	169	4376	0.17	ppm	97

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

7.6.14

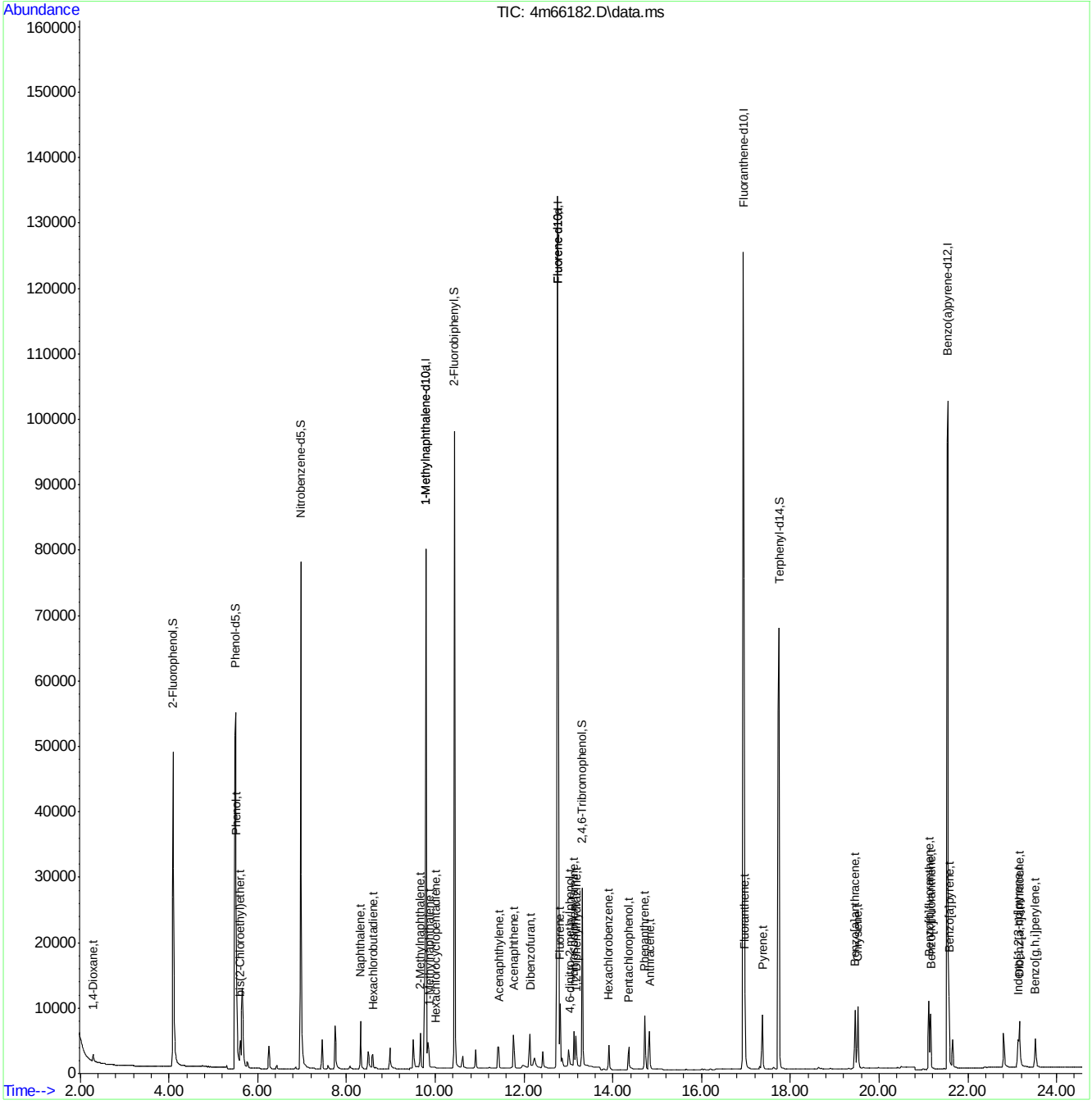
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66182.D
Acq On : 20 Jun 2016 11:31 pm
Operator : ashleyd
Sample : ic2974-0.2
Misc : op94799a,e4m2974
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 07:53:40 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66183.D
Acq On : 21 Jun 2016 12:01 am
Operator : ashleyd
Sample : ic2974-0.5
Misc : op94799a,e4m2974
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 07:53:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	48821	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	79987	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	121543	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.547	264	101873	4.00	ppm	0.01
35) 1-Methylnaphthalene-d10a	9.786	152	48821	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	79987	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	81796	10.45	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 20.90%			
3) Phenol-d5	5.483	99	130374	10.36	ppm	0.00
Spiked Amount 50.000			Recovery = 20.72%			
6) Nitrobenzene-d5	6.968	82	112634	10.31	ppm	0.00
Spiked Amount 50.000			Recovery = 20.62%			
11) 2-Fluorobiphenyl	10.431	172	209046	10.59	ppm	0.00
Spiked Amount 50.000			Recovery = 21.18%			
17) 2,4,6-Tribromophenol	13.313	330	42279	10.15	ppm	0.00
Spiked Amount 50.000			Recovery = 20.30%			
25) Terphenyl-d14	17.749	244	199233	10.33	ppm	0.00
Spiked Amount 50.000			Recovery = 20.66%			
Target Compounds						Qvalue
4) Phenol	5.511	94	34378	2.58	ppm	88
5) bis(2-Chloroethyl)ether	5.607	93	4985	0.47	ppm	78
7) Naphthalene	8.314	128	17593	0.51	ppm	100
8) Hexachlorobutadiene	8.593	225	2951	0.51	ppm	99
9) 2-Methylnaphthalene	9.667	142	8048	0.54	ppm	97
10) Hexachlorocyclopentadiene	10.001	237	599	0.59	ppm	97
13) Acenaphthylene	11.431	152	11956	0.51	ppm	85
14) Acenaphthene	11.764	153	7448	0.50	ppm	97
15) Dibenzofuran	12.141	168	11632	0.53	ppm	100
16) Fluorene	12.812	166	13592	0.51	ppm	99
18) Hexachlorobenzene	13.908	284	4345	0.52	ppm	99
19) Pentachlorophenol	14.360	266	7373	2.21	ppm	78
20) Phenanthrene	14.717	178	18316	0.51	ppm	99
21) Anthracene	14.830	178	16332	0.50	ppm	99
23) Fluoranthene	16.977	202	19846	0.51	ppm	99
24) Pyrene	17.372	202	19391	0.51	ppm	99
26) Benzo[a]anthracene	19.462	228	16744	0.52	ppm	99
27) Chrysene	19.518	228	17050	0.53	ppm	99
29) Benzo[b]fluoranthene	21.120	252	18885	0.50	ppm	98
30) Benzo[k]fluoranthene	21.162	252	18893	0.53	ppm	99
31) Benzo[a]pyrene	21.575	252	16497	0.48	ppm	99
32) Indeno[1,2,3-cd]pyrene	23.117	276	20627	0.51	ppm	99
33) Dibenz[a,h]anthracene	23.158	278	17147	0.51	ppm	97
34) Benzo[g,h,i]perylene	23.516	276	17848	0.52	ppm	100
36) 1,4-Dioxane	2.288	88	1889	0.53	ppm	77
37) 1-Methylnaphthalene	9.858	142	7124	0.52	ppm #	63
39) 4,6-dinitro-2-methylph...	13.003	198	6273	1.84	ppm	64

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66183.D
Acq On : 21 Jun 2016 12:01 am
Operator : ashleyd
Sample : ic2974-0.5
Misc : op94799a,e4m2974
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 07:53:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	12389	0.49	ppm	99
41) n-nitrosodiphenylamine	13.122	169	8582	0.48	ppm	97

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

7.6.15

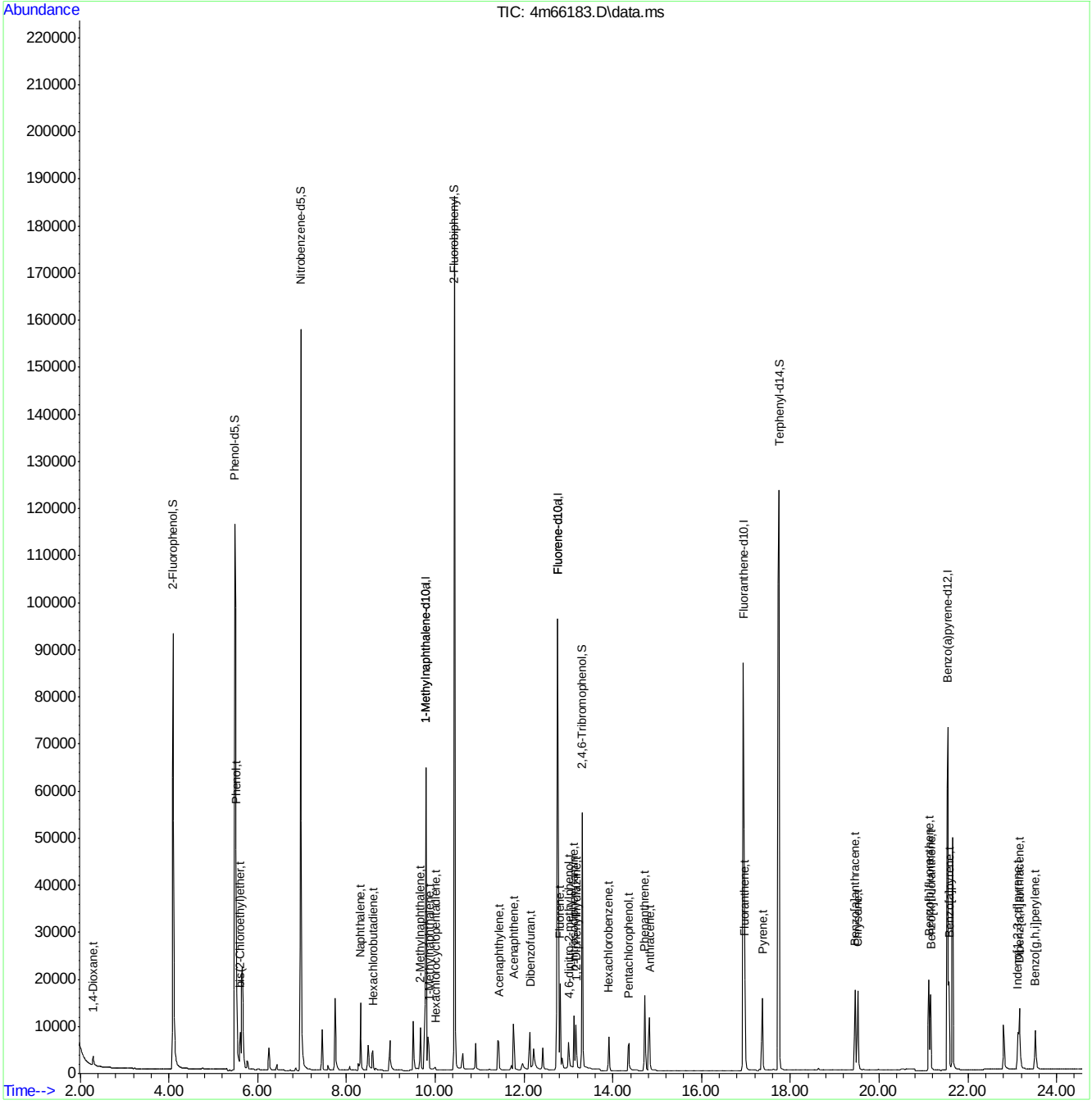
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66183.D
Acq On : 21 Jun 2016 12:01 am
Operator : ashleyd
Sample : ic2974-0.5
Misc : op94799a,e4m2974
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 07:53:42 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



M4M2974SIM.M Tue Jun 21 07:56:26 2016 MANAGER Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66184.D
Acq On : 21 Jun 2016 12:31 am
Operator : ashleyd
Sample : icc2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 07:53:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	53805	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	88678	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	136758	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.534	264	111755	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	53805	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	88678	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.090	112	172656	20.02	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 40.04%			
3) Phenol-d5	5.484	99	277285	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
6) Nitrobenzene-d5	6.968	82	240778	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
11) 2-Fluorobiphenyl	10.431	172	435307	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
17) 2,4,6-Tribromophenol	13.313	330	92390	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
25) Terphenyl-d14	17.749	244	434082	20.00	ppm	0.00
Spiked Amount 50.000			Recovery = 40.00%			
Target Compounds						Qvalue
4) Phenol	5.511	94	73488	5.00	ppm	100
5) bis(2-Chloroethyl)ether	5.607	93	10826	0.92	ppm	75
7) Naphthalene	8.314	128	38045	1.00	ppm	100
8) Hexachlorobutadiene	8.593	225	6342	1.00	ppm	100
9) 2-Methylnaphthalene	9.667	142	16441	1.00	ppm	100
10) Hexachlorocyclopentadiene	10.001	237	2232	2.00	ppm	100
13) Acenaphthylene	11.409	152	26195	1.00	ppm	100
14) Acenaphthene	11.764	153	16587	1.00	ppm	100
15) Dibenzofuran	12.141	168	24521	1.00	ppm	100
16) Fluorene	12.812	166	29604	1.00	ppm	100
18) Hexachlorobenzene	13.908	284	9238	1.00	ppm	100
19) Pentachlorophenol	14.341	266	18521	5.00	ppm	100
20) Phenanthrene	14.717	178	39729	1.00	ppm	100
21) Anthracene	14.830	178	35891	1.00	ppm	100
23) Fluoranthene	16.977	202	43518	1.00	ppm	100
24) Pyrene	17.372	202	42479	1.00	ppm	100
26) Benzo[a]anthracene	19.462	228	35948	1.00	ppm	99
27) Chrysene	19.519	228	36398	1.00	ppm	100
29) Benzo[b]fluoranthene	21.121	252	41480	1.01	ppm	99
30) Benzo[k]fluoranthene	21.162	252	39891	1.02	ppm	100
31) Benzo[a]pyrene	21.575	252	38047	1.02	ppm	100
32) Indeno[1,2,3-cd]pyrene	23.117	276	44837	1.02	ppm	100
33) Dibenz[a,h]anthracene	23.158	278	37256	1.02	ppm	100
34) Benzo[g,h,i]perylene	23.516	276	38720	1.02	ppm	100
36) 1,4-Dioxane	2.289	88	3599	0.92	ppm	82
37) 1-Methylnaphthalene	9.834	142	15146	1.00	ppm	100
39) 4,6-dinitro-2-methylph...	13.003	198	18936	5.00	ppm	100

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66184.D
Acq On : 21 Jun 2016 12:31 am
Operator : ashleyd
Sample : icc2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 07:53:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	28043	1.00	ppm	100
41) n-nitrosodiphenylamine	13.122	169	19967	1.00	ppm	100

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

7.6.16

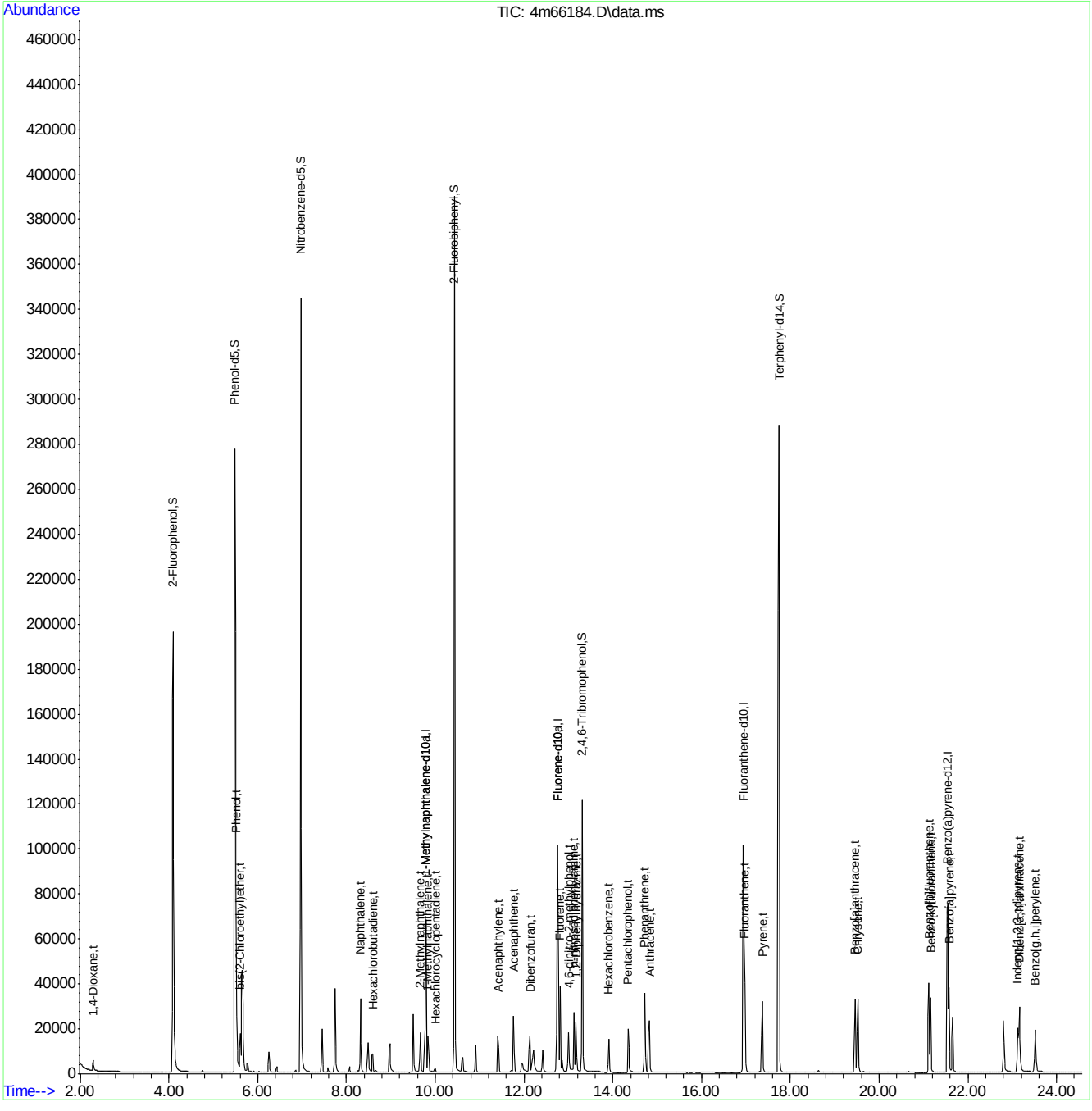
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66184.D
Acq On : 21 Jun 2016 12:31 am
Operator : ashleyd
Sample : icc2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 07:53:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:57:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	65123	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	120426	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	194489	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.534	264	160931	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	65123	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	120426	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.100	112	10664	1.02	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery	=	2.04%#	
3) Phenol-d5	5.497	99	16574	0.99	ppm	0.01
Spiked Amount 50.000			Recovery	=	1.98%	
6) Nitrobenzene-d5	6.968	82	14948	1.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.06%	
11) 2-Fluorobiphenyl	10.431	172	26966	1.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.04%	
17) 2,4,6-Tribromophenol	13.313	330	4974	0.79	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.58%	
25) Terphenyl-d14	17.749	244	26084	0.85	ppm	0.00
Spiked Amount 50.000			Recovery	=	1.70%	
Target Compounds						Qvalue
4) Phenol	5.511	94	4641	0.26	ppm	48
5) bis(2-Chloroethyl)ether	5.607	93	557	0.04	ppm #	53
7) Naphthalene	8.314	128	2263	0.05	ppm	99
8) Hexachlorobutadiene	8.593	225	403	0.05	ppm	98
9) 2-Methylnaphthalene	9.667	142	1475	0.07	ppm	95
13) Acenaphthylene	11.431	152	1507	0.04	ppm	87
14) Acenaphthene	11.764	153	965	0.04	ppm	98
15) Dibenzofuran	12.141	168	2323	0.07	ppm	100
16) Fluorene	12.812	166	1764	0.04	ppm	92
18) Hexachlorobenzene	13.908	284	573	0.05	ppm	98
19) Pentachlorophenol	14.360	266	938	0.19	ppm	86
20) Phenanthrene	14.717	178	2308	0.04	ppm	98
21) Anthracene	14.830	178	2199	0.05	ppm	97
23) Fluoranthene	16.977	202	2773	0.04	ppm	99
24) Pyrene	17.372	202	2482	0.04	ppm	98
26) Benzo[a]anthracene	19.462	228	2163	0.04	ppm	97
27) Chrysene	19.519	228	2438	0.05	ppm	96
29) Benzo[b]fluoranthene	21.121	252	2558	0.04	ppm	97
30) Benzo[k]fluoranthene	21.162	252	2707	0.05	ppm	98
31) Benzo[a]pyrene	21.575	252	2415m	0.04	ppm	
32) Indeno[1,2,3-cd]pyrene	23.131	276	2781	0.04	ppm	96
33) Dibenz[a,h]anthracene	23.158	278	2312	0.04	ppm	84
34) Benzo[g,h,i]perylene	23.530	276	2464	0.05	ppm	100
37) 1-Methylnaphthalene	9.858	142	987	0.05	ppm #	62
39) 4,6-dinitro-2-methylph...	13.027	198	615	0.12	ppm	93
40) 1,2-Diphenylhydrazine	13.170	77	1490	0.04	ppm	100
41) n-nitrosodiphenylamine	13.122	169	1042	0.04	ppm	94

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:57:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

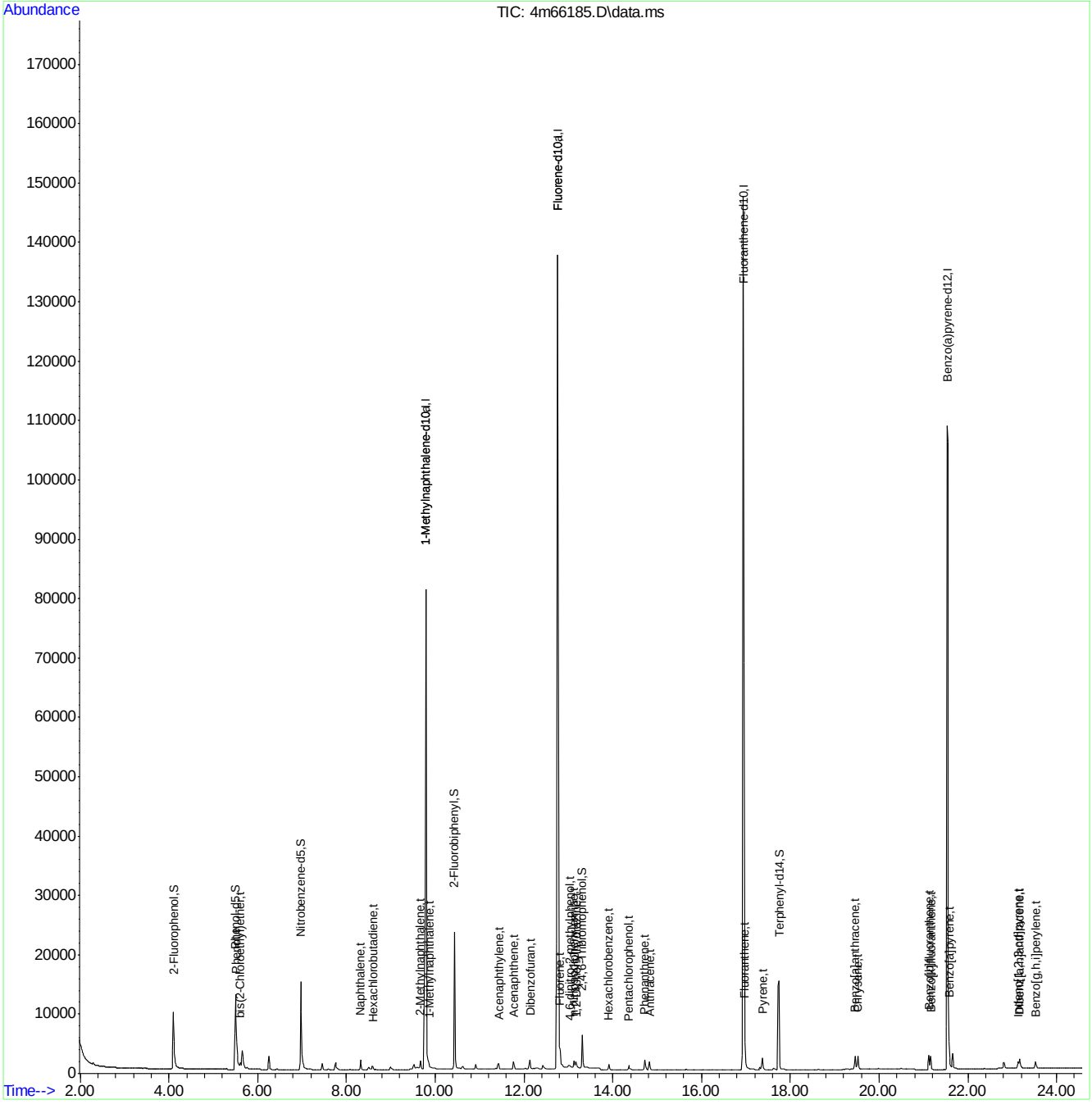
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:57:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

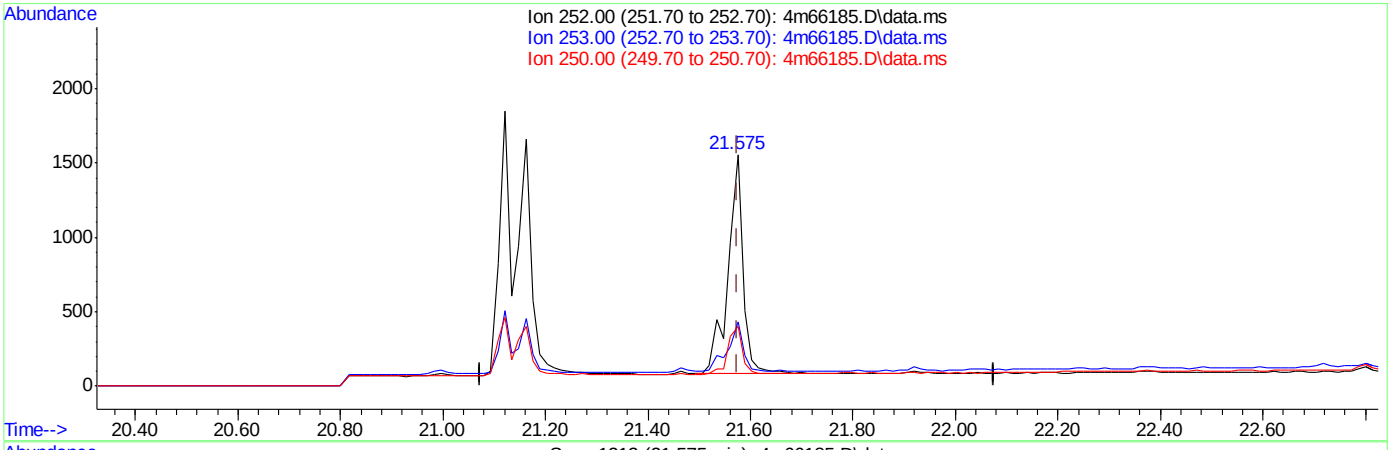


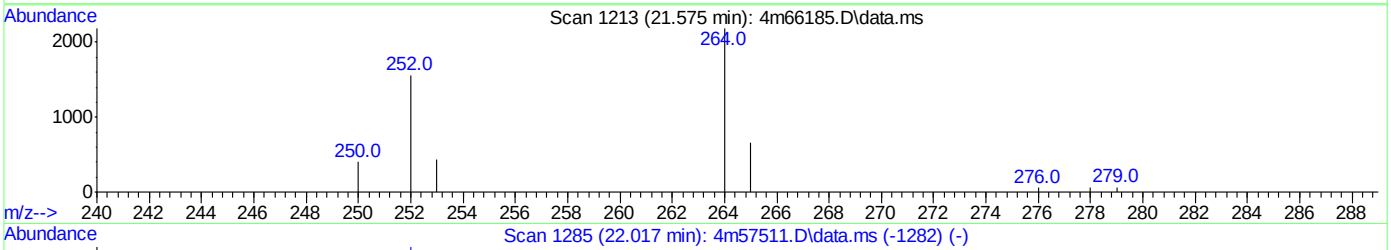
SGS ACCUTEST JC23654

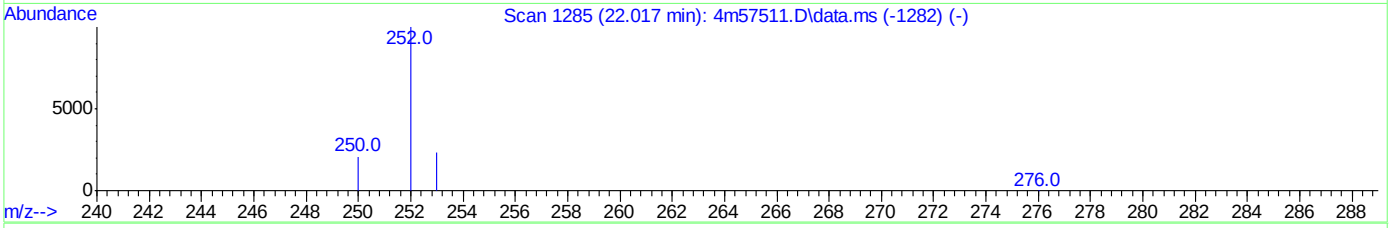
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:53:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66185.D\data.ms

(31) Benzo[a]pyrene (t)

21.575min (0.000) 0.06ppm

response 2993

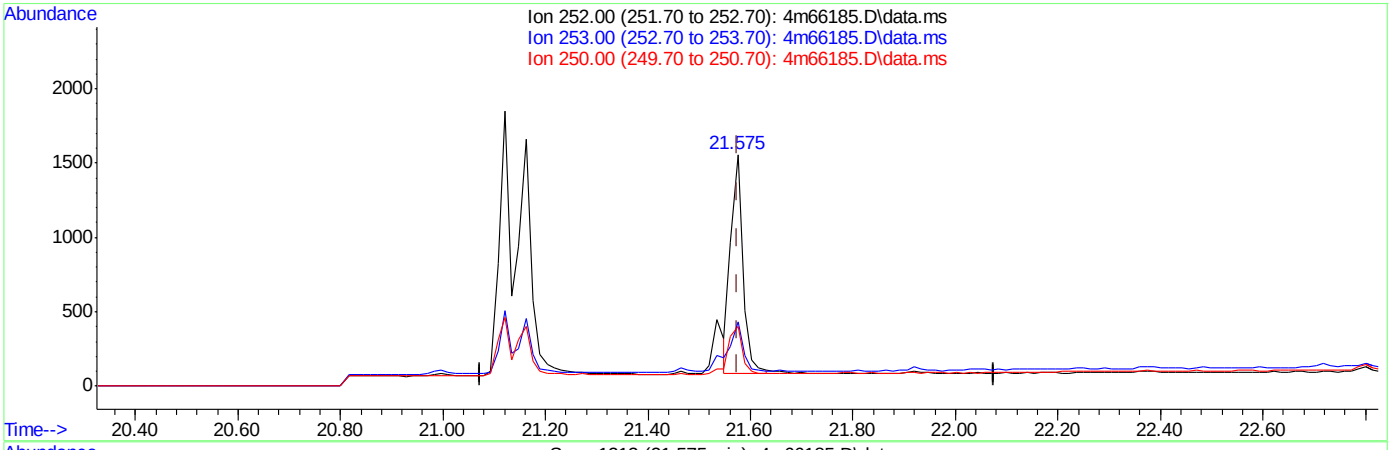
Ion	Exp%	Act%
252.00	100	100
253.00	22.40	22.56
250.00	21.30	21.68
0.00	0.00	0.00

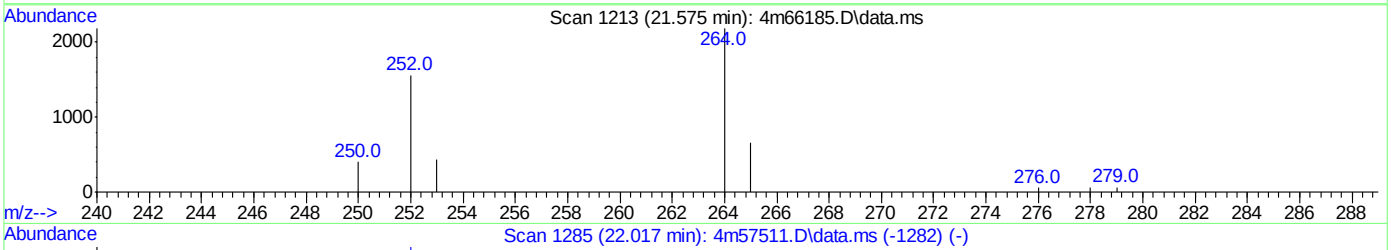
SGS ACCUTEST JC23654

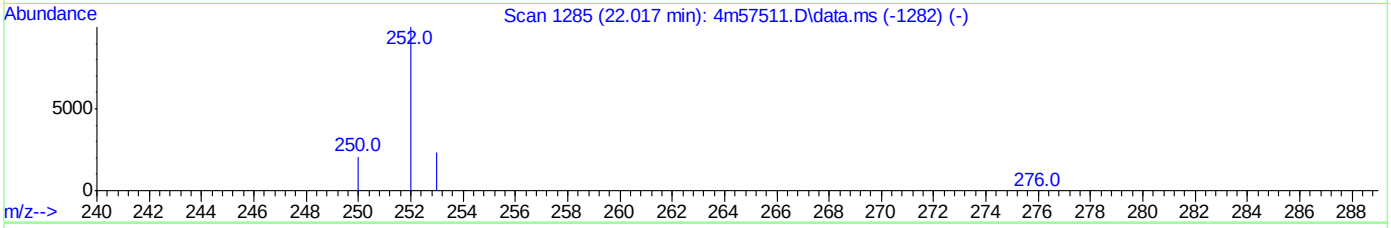
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66185.D
Acq On : 21 Jun 2016 1:01 am
Operator : ashleyd
Sample : ic2974-0.05
Misc : op94799a,e4m2974
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 07:53:46 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66185.D\data.ms

(31) Benzo[a]pyrene (t)

21.575min (0.000) 0.04ppm m

response 2415

Ion	Exp%	Act%
252.00	100	100
253.00	22.40	27.73
250.00	21.30	25.74
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66186.D
Acq On : 21 Jun 2016 1:31 am
Operator : ashleyd
Sample : ic2974-0.02
Misc : op94799a,e4m2974
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 07:58:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	61071	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	110365	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	174894	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.534	264	142482	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	61071	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	110365	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.100	112	3577	0.37	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.74%#			
3) Phenol-d5	5.497	99	5671	0.36	ppm	0.01
Spiked Amount 50.000			Recovery = 0.72%			
6) Nitrobenzene-d5	6.984	82	5230	0.38	ppm	0.02
Spiked Amount 50.000			Recovery = 0.76%			
11) 2-Fluorobiphenyl	10.431	172	9683	0.39	ppm	0.00
Spiked Amount 50.000			Recovery = 0.78%			
17) 2,4,6-Tribromophenol	13.313	330	1645	0.29	ppm	0.00
Spiked Amount 50.000			Recovery = 0.58%			
25) Terphenyl-d14	17.749	244	9281	0.33	ppm	0.00
Spiked Amount 50.000			Recovery = 0.66%			
Target Compounds						Qvalue
4) Phenol	5.525	94	1518	0.09	ppm	87
5) bis(2-Chloroethyl)ether	5.607	93	183	0.01	ppm #	63
7) Naphthalene	8.314	128	846	0.02	ppm	97
8) Hexachlorobutadiene	8.593	225	149	0.02	ppm	97
9) 2-Methylnaphthalene	9.667	142	894	0.05	ppm	93
13) Acenaphthylene	11.431	152	573	0.02	ppm	88
14) Acenaphthene	11.764	153	350	0.02	ppm	94
15) Dibenzofuran	12.141	168	1686	0.06	ppm	100
16) Fluorene	12.812	166	615	0.02	ppm	100
18) Hexachlorobenzene	13.908	284	272	0.02	ppm	95
19) Pentachlorophenol	14.360	266	500	0.11	ppm	91
20) Phenanthrene	14.717	178	843	0.02	ppm	97
21) Anthracene	14.830	178	770	0.02	ppm	95
23) Fluoranthene	16.977	202	1130	0.02	ppm	97
24) Pyrene	17.372	202	909	0.02	ppm	96
26) Benzo[a]anthracene	19.462	228	826	0.02	ppm #	94
27) Chrysene	19.518	228	990	0.02	ppm	96
29) Benzo[b]fluoranthene	21.120	252	993	0.02	ppm	95
30) Benzo[k]fluoranthene	21.162	252	1119	0.02	ppm	95
31) Benzo[a]pyrene	21.575	252	1019	0.02	ppm	94
32) Indeno[1,2,3-cd]pyrene	23.131	276	1096	0.02	ppm	99
33) Dibenz[a,h]anthracene	23.158	278	845	0.02	ppm	75
34) Benzo[g,h,i]perylene	23.530	276	924	0.02	ppm	99
37) 1-Methylnaphthalene	9.858	142	384	0.02	ppm #	63
39) 4,6-dinitro-2-methylph...	13.027	198	338	0.07	ppm	84
40) 1,2-Diphenylhydrazine	13.170	77	484	0.01	ppm	96
41) n-nitrosodiphenylamine	13.122	169	347	0.01	ppm	85

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66186.D
Acq On : 21 Jun 2016 1:31 am
Operator : ashleyd
Sample : ic2974-0.02
Misc : op94799a,e4m2974
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 07:58:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

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

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

7.6.18

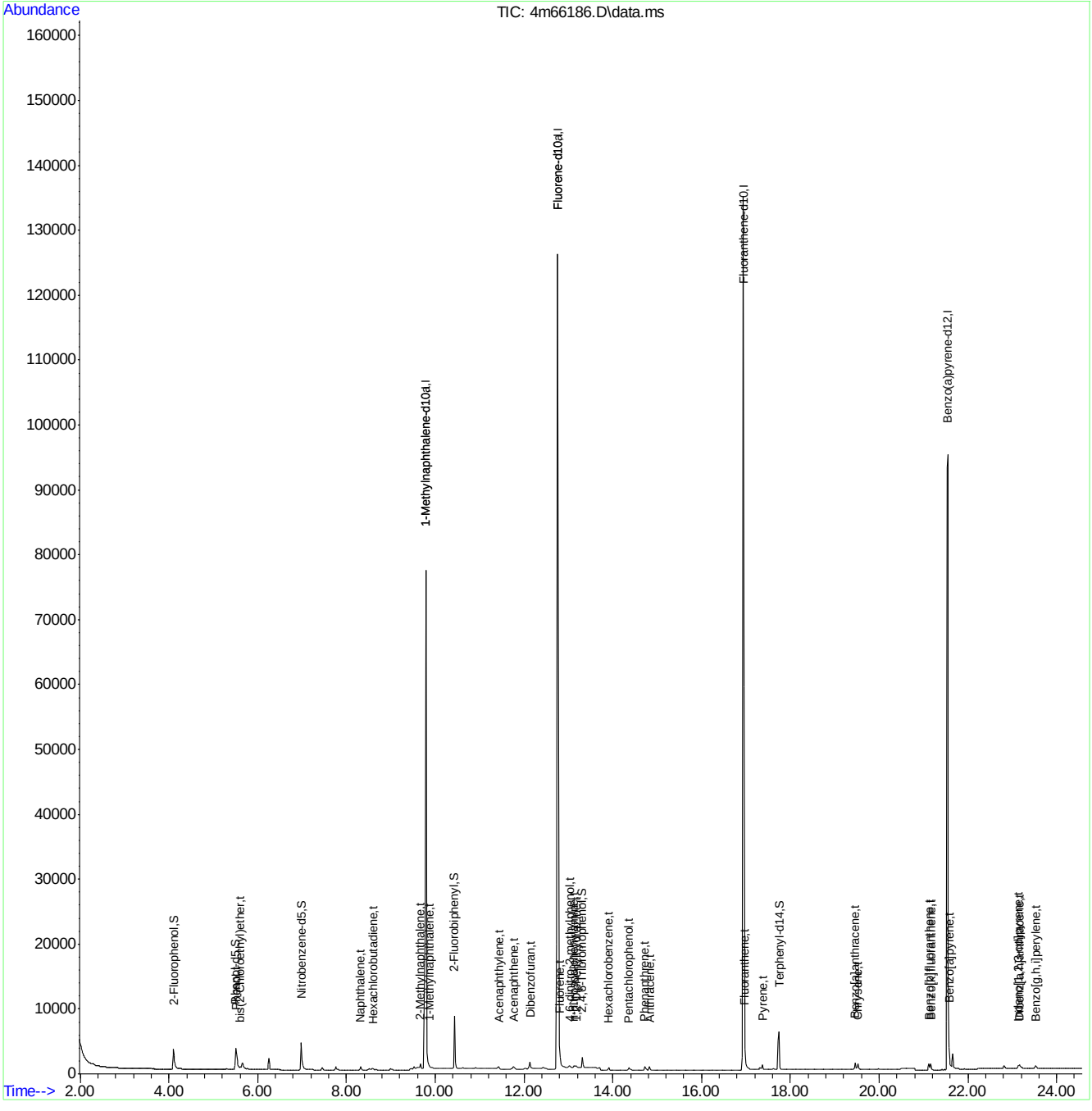
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66186.D
Acq On : 21 Jun 2016 1:31 am
Operator : ashleyd
Sample : ic2974-0.02
Misc : op94799a,e4m2974
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 07:58:13 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

4M66187.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya
06/21/16 13:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:58:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	52088	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	96797	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	149300	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.533	264	120485	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	52088	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	96797	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.110	112	1452	0.17	ppm	0.02
Spiked Amount 50.000	Range 11 - 58		Recovery = 0.34%#			
3) Phenol-d5	5.511	99	2293	0.17	ppm	0.03
Spiked Amount 50.000			Recovery = 0.34%			
6) Nitrobenzene-d5	6.984	82	2159	0.19	ppm	0.02
Spiked Amount 50.000			Recovery = 0.38%			
11) 2-Fluorobiphenyl	10.430	172	4224	0.20	ppm	0.00
Spiked Amount 50.000			Recovery = 0.40%			
17) 2,4,6-Tribromophenol	13.313	330	681	0.14	ppm	0.00
Spiked Amount 50.000			Recovery = 0.28%			
25) Terphenyl-d14	17.749	244	3995	0.17	ppm	0.00
Spiked Amount 50.000			Recovery = 0.34%			
Target Compounds						Qvalue
4) Phenol	5.525	94	640	0.04	ppm	62
7) Naphthalene	8.314	128	363	0.01	ppm	98
9) 2-Methylnaphthalene	9.667	142	639	0.04	ppm	90
13) Acenaphthylene	11.431	152	239	0.01	ppm	93
14) Acenaphthene	11.764	153	148	0.01	ppm	99
15) Dibenzofuran	12.141	168	1318	0.05	ppm	100
16) Fluorene	12.812	166	262	0.01	ppm	97
18) Hexachlorobenzene	13.908	284	92m	0.01	ppm	
19) Pentachlorophenol	14.360	266	329	0.08	ppm	91
20) Phenanthrene	14.717	178	374	0.01	ppm	97
21) Anthracene	14.830	178	349	0.01	ppm	93
23) Fluoranthene	16.977	202	554	0.01	ppm	98
24) Pyrene	17.372	202	401	0.01	ppm	97
26) Benzo[a]anthracene	19.462	228	365	0.01	ppm #	92
27) Chrysene	19.518	228	436	0.01	ppm	94
29) Benzo[b]fluoranthene	21.120	252	521	0.01	ppm	94
30) Benzo[k]fluoranthene	21.162	252	610	0.01	ppm	95
31) Benzo[a]pyrene	21.575	252	529	0.01	ppm	88
32) Indeno[1,2,3-cd]pyrene	23.131	276	477	0.01	ppm	92
33) Dibenz[a,h]anthracene	23.172	278	406	0.01	ppm	88
34) Benzo[g,h,i]perylene	23.530	276	455	0.01	ppm	99
37) 1-Methylnaphthalene	9.858	142	183	0.01	ppm #	69
39) 4,6-dinitro-2-methylph...	13.051	198	165	0.04	ppm	75
40) 1,2-Diphenylhydrazine	13.170	77	192	0.01	ppm	96
41) n-nitrosodiphenylamine	13.146	169	162	0.01	ppm	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:58:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

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

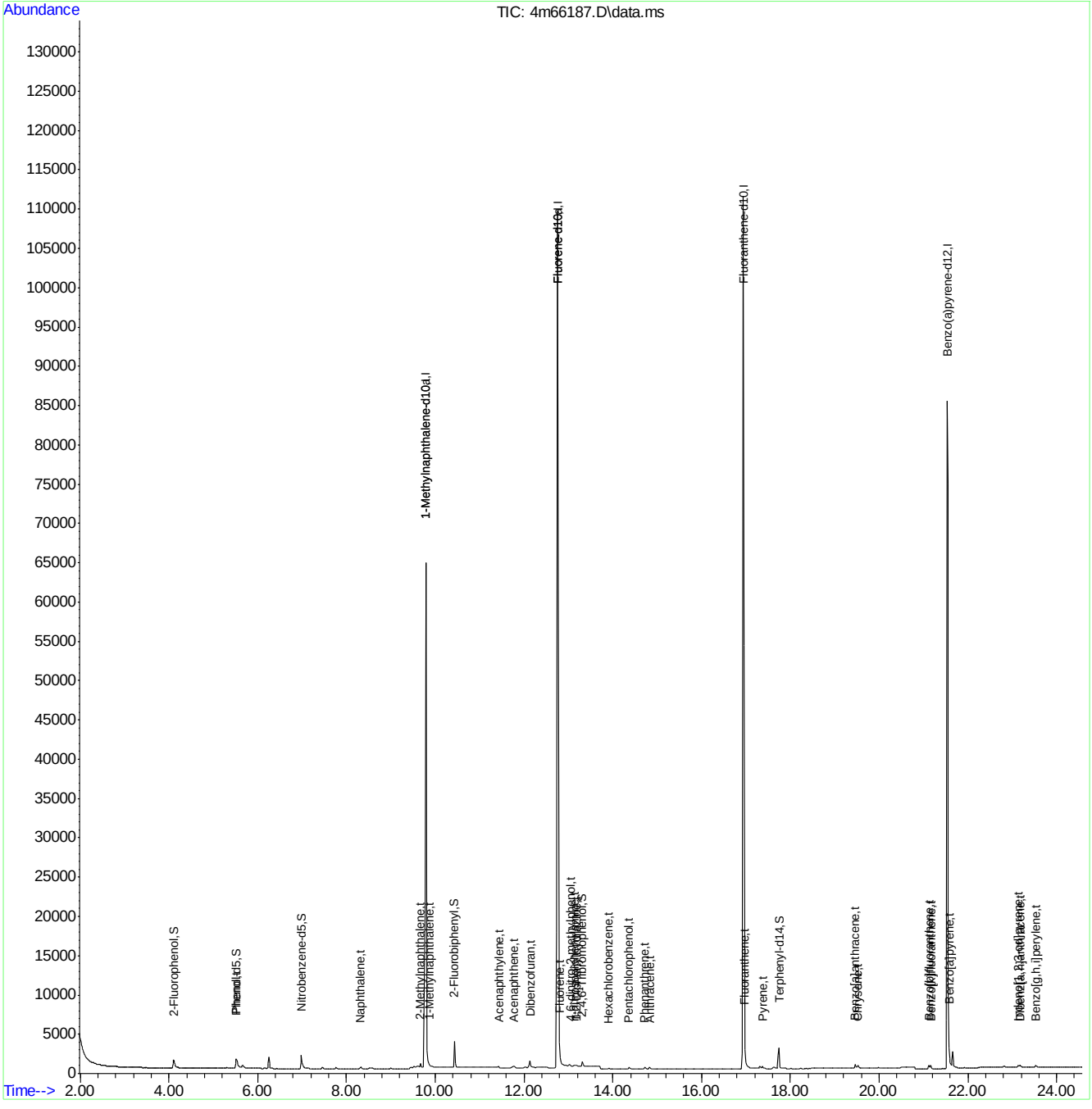
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:58:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



M4M2974SIM.M Tue Jun 21 07:59:03 2016 MANAGER Page: 3

Manual Integration Approval Summary

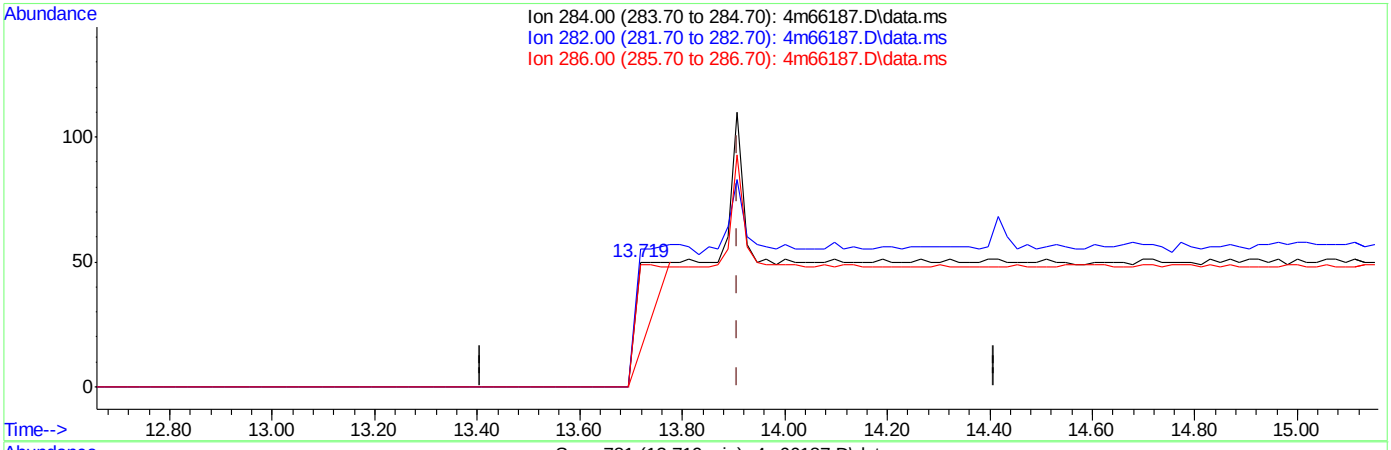
Sample Number:	E4M2974-IC2974	**Method:**	EPA 625 BY SIM
Lab FileID:	4M66187.D	**Analyst approved:**	06/21/16 08:32 Linsey Kirschmann
Injection Time:	06/21/16 02:01	**Supervisor approved:**	06/21/16 13:33 Nina Pandya

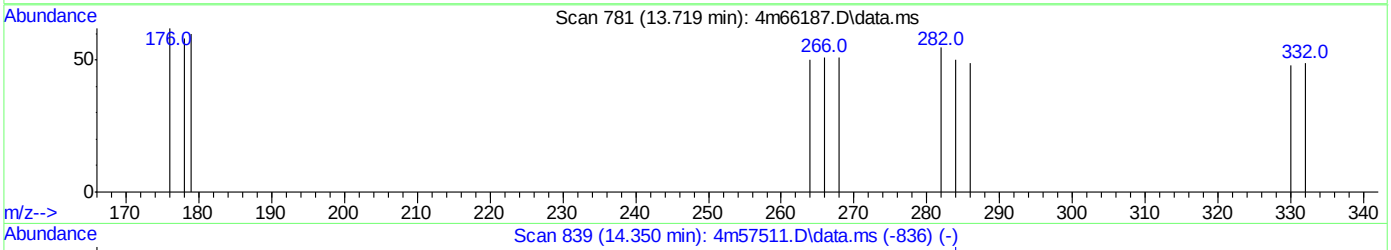
Parameter	CAS	Sig#	R.T. (min.)	Reason
Hexachlorobenzene	118-74-1		13.91	Poor instrument integration

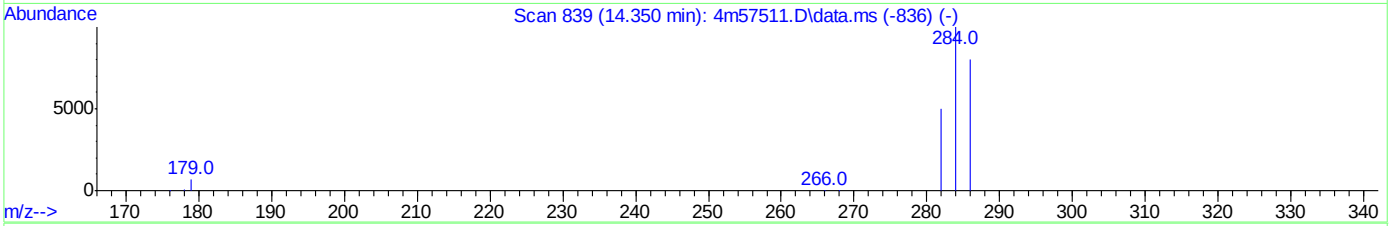
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:53:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration







TIC: 4m66187.D\data.ms

(18) Hexachlorobenzene (t)

13.719min (-0.188) 0.01ppm

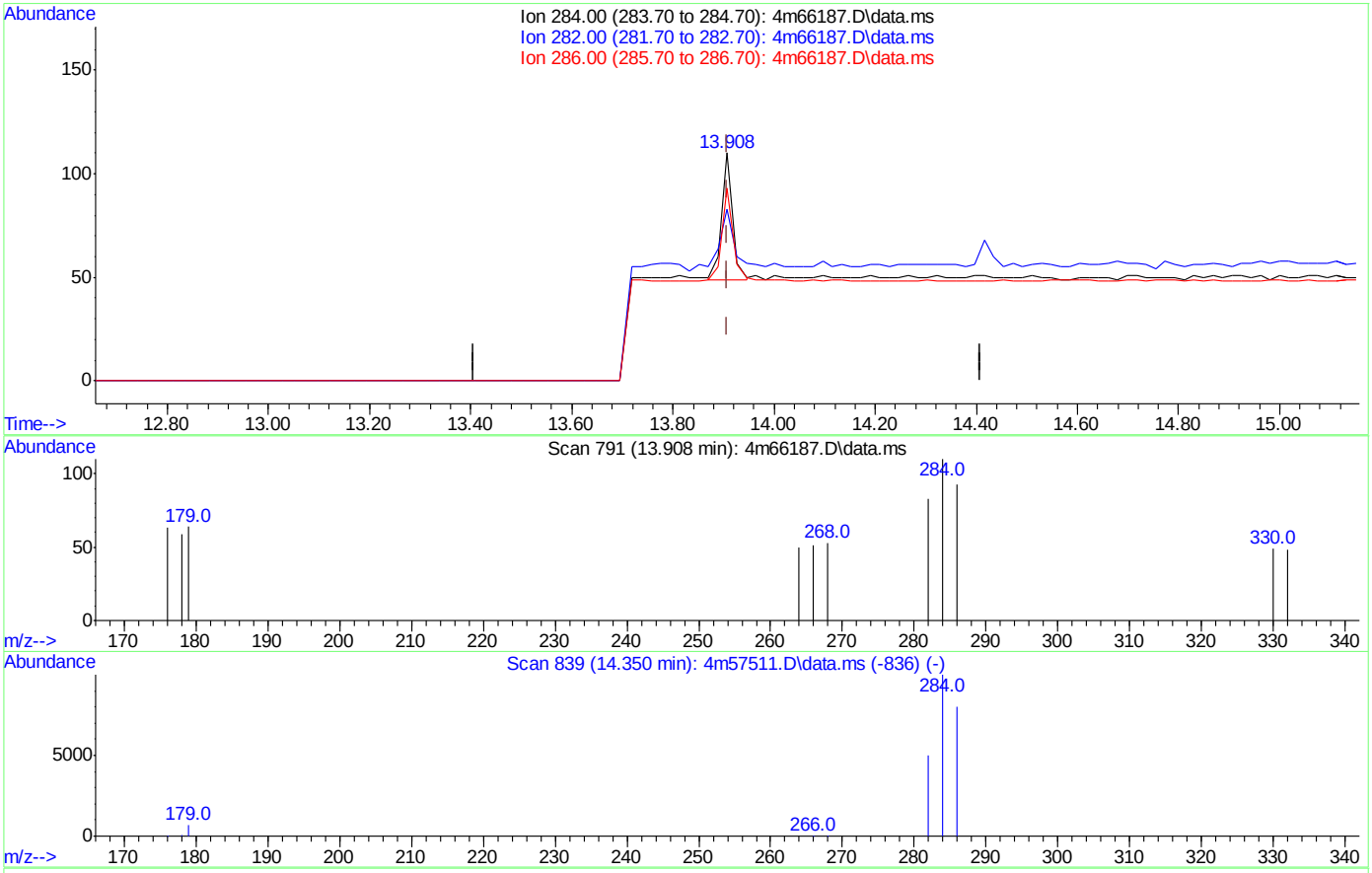
response 121

Ion	Exp%	Act%
284.00	100	100
282.00	49.10	106.00#
286.00	81.90	100.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66187.D
Acq On : 21 Jun 2016 2:01 am
Operator : ashleyd
Sample : ic2974-0.01
Misc : op94799a,e4m2974
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 07:53:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



(18) Hexachlorobenzene (t)

13.908min (-0.000) 0.01ppm m

response 92

Ion	Exp%	Act%
284.00	100	100
282.00	49.10	75.45
286.00	81.90	84.55
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66188.D
Acq On : 21 Jun 2016 2:31 am
Operator : ashleyd
Sample : ic2974-5.0
Misc : op94799a,e4m2974
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 07:53:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.786	152	59276	4.00	ppm		0.00
12) Fluorene-d10	12.764	176	118283	4.00	ppm		0.00
22) Fluoranthene-d10	16.939	212	166736	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	21.547	264	138747	4.00	ppm		0.01
35) 1-Methylnaphthalene-d10a	9.786	152	59276	4.00	ppm		0.00
38) Fluorene-d10a	12.764	176	118283	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.090	112	886370	93.31	ppm		0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 186.62%#				
3) Phenol-d5	5.497	99	1388174	90.88	ppm		0.01
Spiked Amount 50.000			Recovery = 181.76%				
6) Nitrobenzene-d5	6.984	82	1286964	97.03	ppm		0.02
Spiked Amount 50.000			Recovery = 194.06%				
11) 2-Fluorobiphenyl	10.430	172	1589587	66.29	ppm		0.00
Spiked Amount 50.000			Recovery = 132.58%				
17) 2,4,6-Tribromophenol	13.313	330	390490	63.37	ppm		0.00
Spiked Amount 50.000			Recovery = 126.74%				
25) Terphenyl-d14	17.749	244	1801284	68.07	ppm		0.00
Spiked Amount 50.000			Recovery = 136.14%				
Target Compounds							Qvalue
4) Phenol	5.511	94	382997	23.65	ppm		84
5) bis(2-Chloroethyl)ether	5.607	93	57615	4.45	ppm	#	55
7) Naphthalene	8.314	128	200110	4.77	ppm		100
8) Hexachlorobutadiene	8.593	225	33384	4.78	ppm		99
9) 2-Methylnaphthalene	9.667	142	88068	4.86	ppm		99
10) Hexachlorocyclopentadiene	10.001	237	29396	23.91	ppm		98
13) Acenaphthylene	11.409	152	144680	4.14	ppm		100
14) Acenaphthene	11.764	153	86149	3.89	ppm		99
15) Dibenzofuran	12.141	168	132775	4.06	ppm		100
16) Fluorene	12.812	166	163295	4.14	ppm		99
18) Hexachlorobenzene	13.908	284	48933	3.97	ppm		100
19) Pentachlorophenol	14.341	266	117769	23.84	ppm		96
20) Phenanthrene	14.717	178	209846	3.96	ppm		100
21) Anthracene	14.811	178	201847	4.22	ppm		88
23) Fluoranthene	16.977	202	223507	4.21	ppm		99
24) Pyrene	17.372	202	230182	4.44	ppm		98
26) Benzo[a]anthracene	19.462	228	196135	4.47	ppm		99
27) Chrysene	19.518	228	194015	4.37	ppm		99
29) Benzo[b]fluoranthene	21.120	252	219460	4.30	ppm		99
30) Benzo[k]fluoranthene	21.162	252	201152	4.12	ppm		99
31) Benzo[a]pyrene	21.575	252	192124	4.13	ppm		98
32) Indeno[1,2,3-cd]pyrene	23.117	276	236117	4.31	ppm		100
33) Dibenz[a,h]anthracene	23.158	278	193986	4.26	ppm		96
34) Benzo[g,h,i]perylene	23.516	276	204909	4.34	ppm		100
36) 1,4-Dioxane	2.288	88	19058	4.44	ppm		86
37) 1-Methylnaphthalene	9.834	142	82152	4.92	ppm		100
39) 4,6-dinitro-2-methylph...	13.003	198	117585	23.28	ppm	#	59

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66188.D
Acq On : 21 Jun 2016 2:31 am
Operator : ashleyd
Sample : ic2974-5.0
Misc : op94799a,e4m2974
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 07:53:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	142303	3.80 ppm	97
41) n-nitrosodiphenylamine	13.122	169	99654	3.74 ppm	97

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

7.6.20

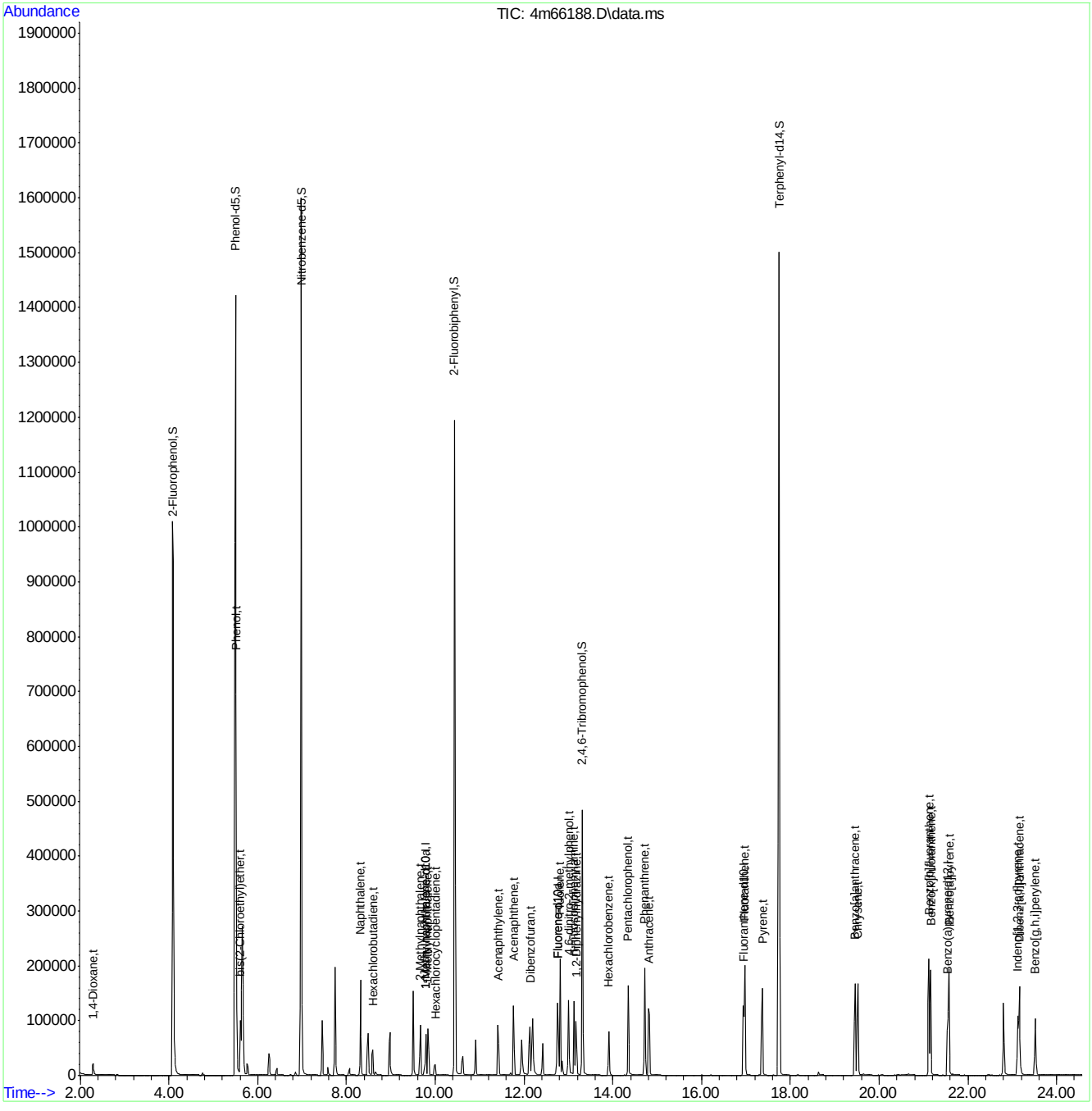
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66188.D
Acq On : 21 Jun 2016 2:31 am
Operator : ashleyd
Sample : ic2974-5.0
Misc : op94799a,e4m2974
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 21 07:53:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66189.D
Acq On : 21 Jun 2016 3:01 am
Operator : ashleyd
Sample : ic2974-2.5
Misc : op94799a,e4m2974
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 07:53:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	54074	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	100500	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	157255	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.533	264	125988	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	54074	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	100500	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.089	112	436515	50.37	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 100.74%#			
3) Phenol-d5	5.483	99	668228	47.96	ppm	0.00
Spiked Amount 50.000			Recovery = 95.92%			
6) Nitrobenzene-d5	6.968	82	590009	48.76	ppm	0.00
Spiked Amount 50.000			Recovery = 97.52%			
11) 2-Fluorobiphenyl	10.430	172	966520	44.19	ppm	0.00
Spiked Amount 50.000			Recovery = 88.38%			
17) 2,4,6-Tribromophenol	13.313	330	225826	43.13	ppm	0.00
Spiked Amount 50.000			Recovery = 86.26%			
25) Terphenyl-d14	17.749	244	1074721	43.06	ppm	0.00
Spiked Amount 50.000			Recovery = 86.12%			
Target Compounds						Qvalue
4) Phenol	5.511	94	184009	12.46	ppm	92
5) bis(2-Chloroethyl)ether	5.607	93	27900	2.36	ppm	82
7) Naphthalene	8.314	128	95674	2.50	ppm	99
8) Hexachlorobutadiene	8.593	225	15922	2.50	ppm	98
9) 2-Methylnaphthalene	9.667	142	41641	2.52	ppm	100
10) Hexachlorocyclopentadiene	10.001	237	10207	9.10	ppm	99
13) Acenaphthylene	11.409	152	68190	2.30	ppm	99
14) Acenaphthene	11.764	153	42532	2.26	ppm	100
15) Dibenzofuran	12.141	168	60896	2.19	ppm	100
16) Fluorene	12.812	166	74454	2.22	ppm	97
18) Hexachlorobenzene	13.908	284	22746	2.17	ppm	97
19) Pentachlorophenol	14.341	266	51313	12.22	ppm	94
20) Phenanthrene	14.717	178	100400	2.23	ppm	99
21) Anthracene	14.811	178	93614	2.30	ppm	88
23) Fluoranthene	16.977	202	106922	2.14	ppm	99
24) Pyrene	17.372	202	107550	2.20	ppm	99
26) Benzo[a]anthracene	19.462	228	86425	2.09	ppm	99
27) Chrysene	19.518	228	89562	2.14	ppm	98
29) Benzo[b]fluoranthene	21.120	252	103181	2.22	ppm	99
30) Benzo[k]fluoranthene	21.148	252	98042	2.21	ppm	88
31) Benzo[a]pyrene	21.575	252	92339	2.19	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.117	276	110721	2.22	ppm	100
33) Dibenz[a,h]anthracene	23.158	278	91992	2.22	ppm	97
34) Benzo[g,h,i]perylene	23.516	276	97040	2.26	ppm	100
36) 1,4-Dioxane	2.288	88	8751	2.24	ppm	78
37) 1-Methylnaphthalene	9.834	142	40647	2.67	ppm	97
39) 4,6-dinitro-2-methylph...	13.003	198	61494	14.33	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66189.D
Acq On : 21 Jun 2016 3:01 am
Operator : ashleyd
Sample : ic2974-2.5
Misc : op94799a,e4m2974
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 07:53:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.170	77	74229	2.34 ppm	99
41) n-nitrosodiphenylamine	13.122	169	54024	2.39 ppm	97

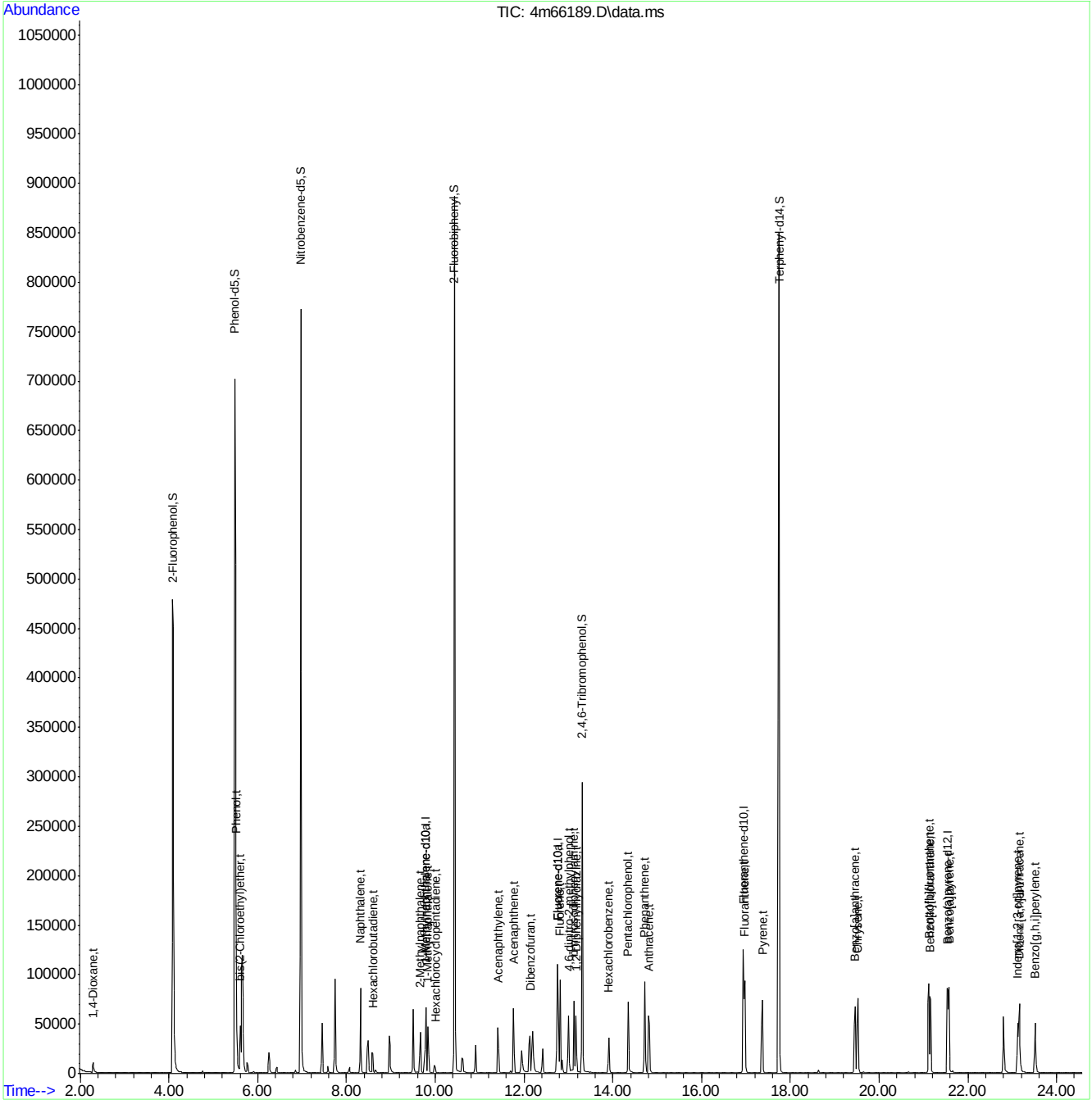
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66189.D
Acq On : 21 Jun 2016 3:01 am
Operator : ashleyd
Sample : ic2974-2.5
Misc : op94799a,e4m2974
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 21 07:53:54 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 07:53:27 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66190.D
Acq On : 21 Jun 2016 3:30 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:27:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	66763	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	117196	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	179820	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.534	264	128092	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	66763	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	117196	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
3) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
6) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
17) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
5) bis(2-Chloroethyl)ether	5.607	93	12366	0.97	ppm	96
7) Naphthalene	8.314	128	44242	0.95	ppm	99
8) Hexachlorobutadiene	8.577	225	7565	0.95	ppm	72
9) 2-Methylnaphthalene	9.667	142	17698	0.80	ppm	98
10) Hexachlorocyclopentadiene	10.001	237	979	0.91	ppm	97
13) Acenaphthylene	11.409	152	29207	0.94	ppm	99
14) Acenaphthene	11.764	153	18887	0.98	ppm	99
15) Dibenzofuran	12.141	168	27377	0.87	ppm	100
16) Fluorene	12.812	166	31615	0.91	ppm	98
18) Hexachlorobenzene	13.908	284	10114	0.87	ppm	97
20) Phenanthrene	14.717	178	43334	0.93	ppm	99
21) Anthracene	14.812	178	37045	0.86	ppm	88
23) Fluoranthene	16.977	202	44839	0.85	ppm	98
24) Pyrene	17.372	202	44548	0.87	ppm	99
26) Benzo[a]anthracene	19.462	228	35984	0.81	ppm	99
27) Chrysene	19.519	228	36630	0.79	ppm	98
29) Benzo[b]fluoranthene	21.121	252	37951	0.85	ppm	98
30) Benzo[k]fluoranthene	21.162	252	38594	0.90	ppm	97
31) Benzo[a]pyrene	21.575	252	36802	0.92	ppm	98
32) Indeno[1,2,3-cd]pyrene	23.117	276	43358	0.92	ppm	99
33) Dibenz[a,h]anthracene	23.158	278	35154	0.90	ppm	99
34) Benzo[g,h,i]perylene	23.516	276	36971	0.90	ppm	100
36) 1,4-Dioxane	2.299	88	3790	0.82	ppm	87
40) 1,2-Diphenylhydrazine	13.170	77	28295	0.87	ppm	100
41) n-nitrosodiphenylamine	13.122	169	20254	0.88	ppm	98

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66190.D
Acq On : 21 Jun 2016 3:30 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:27:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

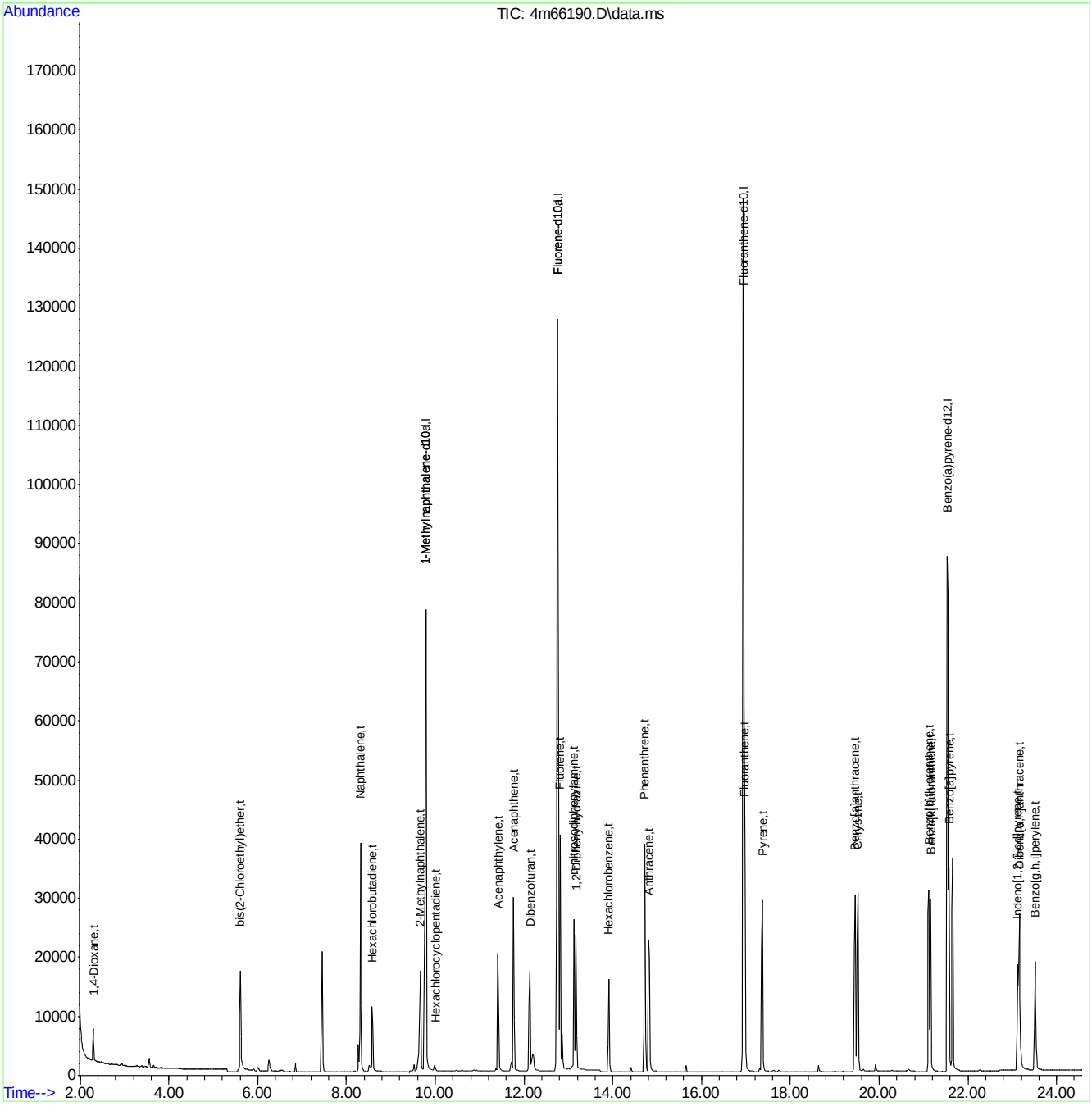
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66190.D
Acq On : 21 Jun 2016 3:30 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 21 08:27:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66191.D
Acq On : 21 Jun 2016 4:00 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 21 08:06:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.786	152	50054	4.00	ppm	0.00
12) Fluorene-d10	12.764	176	78597	4.00	ppm	0.00
22) Fluoranthene-d10	16.939	212	127549	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	21.533	264	101417	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	9.786	152	50054	4.00	ppm	0.00
38) Fluorene-d10a	12.764	176	78597	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery	=	0.00%#	
3) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
6) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
17) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
4) Phenol	5.511	94	69922	5.14	ppm	85
19) Pentachlorophenol	14.341	266	16205	5.66	ppm	99
39) 4,6-dinitro-2-methylph...	13.003	198	18235	4.84	ppm	97

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

7.6.23

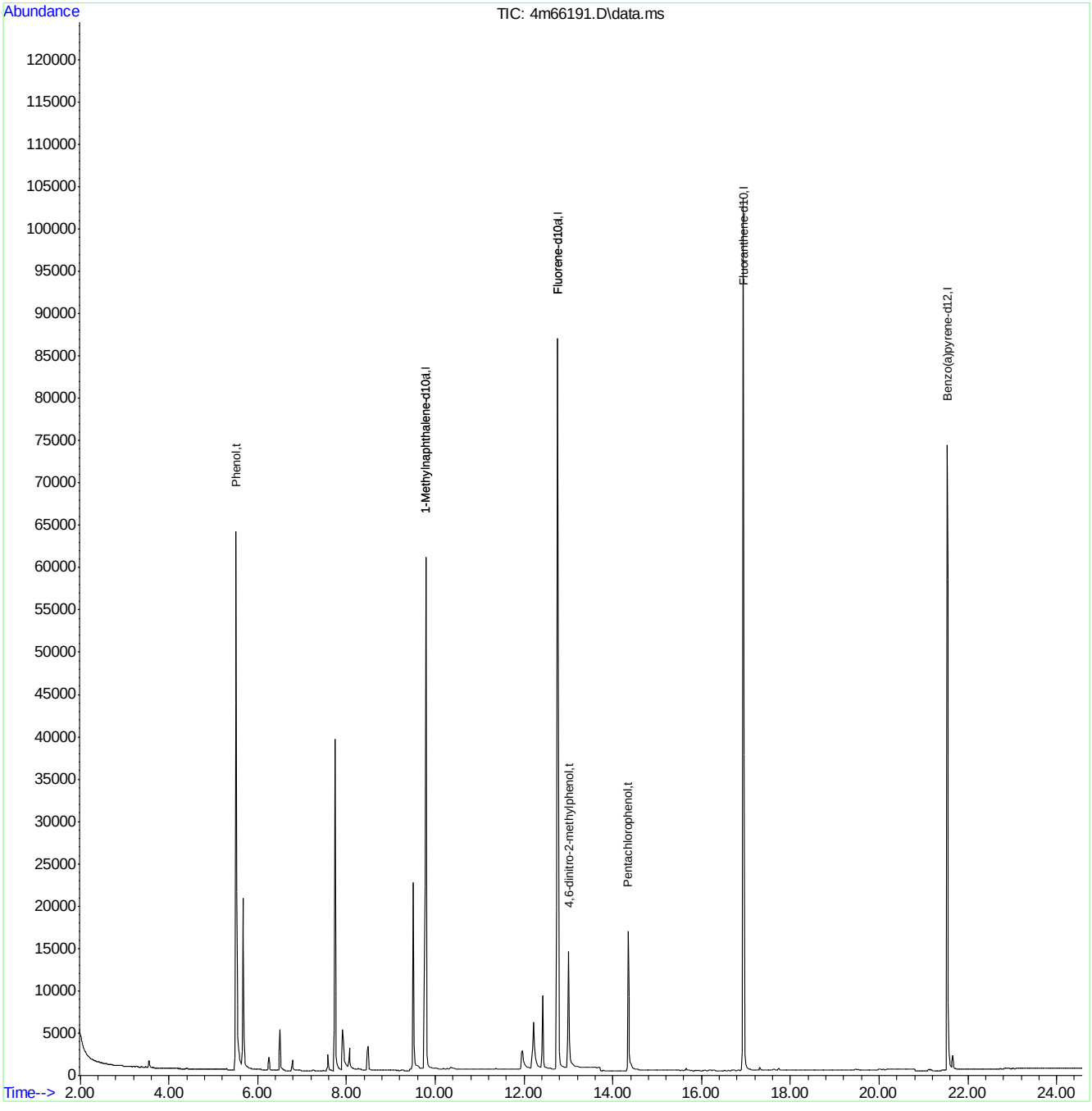
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M2974\
Data File : 4m66191.D
Acq On : 21 Jun 2016 4:00 am
Operator : ashleyd
Sample : icv2974-1.0
Misc : op94799a,e4m2974
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 21 08:06:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



M4M2974SIM.M Tue Jun 21 14:09:06 2016 MANAGER

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66741.D
Acq On : 9 Jul 2016 12:23 pm
Operator : ashleyd
Sample : cc2974-0.5
Misc : op95277a,e4m3003
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 09 12:51:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	9.667	152	33420	4.00	ppm	-0.02
12) Fluorene-d10	12.636	176	62873	4.00	ppm	-0.02
22) Fluoranthene-d10	16.826	212	110699	4.00	ppm	-0.02
28) Benzo(a)pyrene-d12	21.423	264	89278	4.00	ppm	-0.03
35) 1-Methylnaphthalene-d10a	9.667	152	33420	4.00	ppm	-0.02
38) Fluorene-d10a	12.636	176	62873	4.00	ppm	-0.02
System Monitoring Compounds						
2) 2-Fluorophenol	4.048	112	52267	9.81	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 19.62%			
3) Phenol-d5	5.470	99	85290	10.16	ppm	0.04
Spiked Amount 50.000			Recovery = 20.32%			
6) Nitrobenzene-d5	6.860	82	84838	11.36	ppm	-0.04
Spiked Amount 50.000			Recovery = 22.72%			
11) 2-Fluorobiphenyl	10.311	172	140383	10.44	ppm	-0.02
Spiked Amount 50.000			Recovery = 20.88%			
17) 2,4,6-Tribromophenol	13.185	330	26410	9.01	ppm	-0.02
Spiked Amount 50.000			Recovery = 18.02%			
25) Terphenyl-d14	17.617	244	184088	11.78	ppm	-0.03
Spiked Amount 50.000			Recovery = 23.56%			
Target Compounds						Qvalue
4) Phenol	5.497	94	23482	2.58	ppm	70
5) bis(2-Chloroethyl)ether	5.511	93	3938	0.61	ppm	75
7) Naphthalene	8.191	128	12335	0.53	ppm	99
8) Hexachlorobutadiene	8.454	225	2342	0.59	ppm	80
9) 2-Methylnaphthalene	9.548	142	6489	0.59	ppm	92
10) Hexachlorocyclopentadiene	9.858	237	860	1.26	ppm	73
13) Acenaphthylene	11.290	152	9368	0.56	ppm	96
14) Acenaphthene	11.631	153	5562	0.54	ppm	95
15) Dibenzofuran	12.008	168	9117	0.54	ppm	100
16) Fluorene	12.684	166	9484	0.51	ppm	97
18) Hexachlorobenzene	13.776	284	3340	0.54	ppm	90
20) Phenanthrene	14.586	178	14133	0.56	ppm	99
21) Anthracene	14.699	178	12533	0.54	ppm	100
23) Fluoranthene	16.845	202	15380	0.48	ppm	95
24) Pyrene	17.241	202	16527	0.52	ppm	95
26) Benzo[a]anthracene	19.330	228	15356	0.56	ppm #	90
27) Chrysene	19.387	228	13757	0.48	ppm	90
29) Benzo[b]fluoranthene	20.997	252	14860	0.48	ppm	98
30) Benzo[k]fluoranthene	21.038	252	14662	0.49	ppm	98
31) Benzo[a]pyrene	21.451	252	13009	0.46	ppm	95
32) Indeno[1,2,3-cd]pyrene	22.966	276	16765	0.51	ppm	92
33) Dibenz[a,h]anthracene	23.007	278	14042	0.52	ppm	96
34) Benzo[g,h,i]perylene	23.351	276	14447	0.51	ppm	98
37) 1-Methylnaphthalene	9.715	142	6563	0.66	ppm	86
39) 4,6-dinitro-2-methylph...	12.899	198	4246	1.76	ppm #	47
40) 1,2-Diphenylhydrazine	13.042	77	9160	0.53	ppm	99
41) n-nitrosodiphenylamine	13.018	169	5611	0.45	ppm #	69

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66741.D
Acq On : 9 Jul 2016 12:23 pm
Operator : ashleyd
Sample : cc2974-0.5
Misc : op95277a,e4m3003
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 09 12:51:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration

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

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

7.6.24

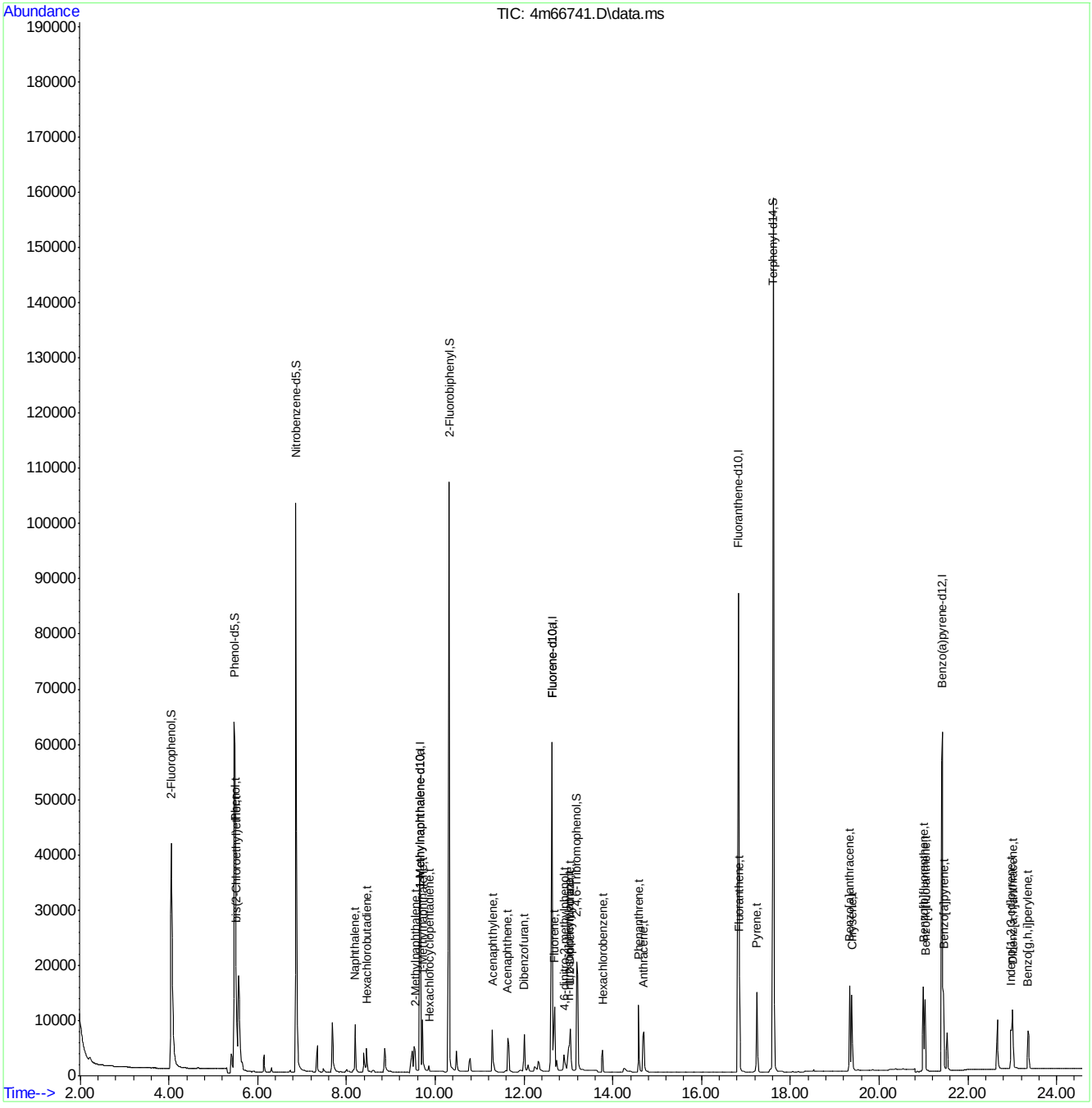
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3003\
Data File : 4m66741.D
Acq On : 9 Jul 2016 12:23 pm
Operator : ashleyd
Sample : cc2974-0.5
Misc : op95277a,e4m3003
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 09 12:51:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Sat Jul 09 12:13:17 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3004\
Data File : 4m66766.D
Acq On : 11 Jul 2016 8:55 am
Operator : ashleyd
Sample : cc2974-1.0
Misc : op95277a,e4m3004
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 09:21:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.619	152	38800	4.00	ppm	#	-0.07
12) Fluorene-d10	12.612	176	60857	4.00	ppm		-0.05
22) Fluoranthene-d10	16.789	212	108727	4.00	ppm		-0.06
28) Benzo(a)pyrene-d12	21.396	264	87971	4.00	ppm		-0.05
35) 1-Methylnaphthalene-d10a	9.619	152	38800	4.00	ppm	#	-0.07
38) Fluorene-d10a	12.612	176	60857	4.00	ppm		-0.05
System Monitoring Compounds							
2) 2-Fluorophenol	4.017	112	111522	18.04	ppm		-0.03
Spiked Amount 50.000	Range 11 - 58		Recovery = 36.08%				
3) Phenol-d5	5.429	99	181101	18.58	ppm		0.00
Spiked Amount 50.000			Recovery = 37.16%				
6) Nitrobenzene-d5	6.829	82	169993	19.60	ppm		-0.07
Spiked Amount 50.000			Recovery = 39.20%				
11) 2-Fluorobiphenyl	10.288	172	265871	17.02	ppm		-0.04
Spiked Amount 50.000			Recovery = 34.04%				
17) 2,4,6-Tribromophenol	13.162	330	64293	22.67	ppm		-0.04
Spiked Amount 50.000			Recovery = 45.34%				
25) Terphenyl-d14	17.598	244	340092	22.15	ppm		-0.05
Spiked Amount 50.000			Recovery = 44.30%				
Target Compounds							Qvalue
4) Phenol	5.456	94	49200	4.66	ppm		80
5) bis(2-Chloroethyl)ether	5.484	93	8461	1.14	ppm	#	59
7) Naphthalene	8.160	128	25412	0.94	ppm		98
8) Hexachlorobutadiene	8.423	225	4835	1.05	ppm		73
9) 2-Methylnaphthalene	9.500	142	13323	1.04	ppm		69
10) Hexachlorocyclopentadiene	9.834	237	3368	2.93	ppm		86
13) Acenaphthylene	11.266	152	20789	1.29	ppm		93
14) Acenaphthene	11.609	153	12570	1.26	ppm		95
15) Dibenzofuran	11.986	168	16576	1.02	ppm		100
16) Fluorene	12.660	166	17461	0.97	ppm		92
18) Hexachlorobenzene	13.739	284	6565	1.09	ppm		92
19) Pentachlorophenol	14.209	266	9653	4.36	ppm		95
20) Phenanthrene	14.548	178	26861	1.10	ppm		94
21) Anthracene	14.661	178	27431	1.22	ppm		95
23) Fluoranthene	16.826	202	31054	0.98	ppm		98
24) Pyrene	17.222	202	29991	0.97	ppm		99
26) Benzo[a]anthracene	19.312	228	27493	1.02	ppm	#	93
27) Chrysene	19.368	228	29077	1.04	ppm		93
29) Benzo[b]fluoranthene	20.969	252	32551	1.07	ppm		98
30) Benzo[k]fluoranthene	21.011	252	25659	0.87	ppm		97
31) Benzo[a]pyrene	21.424	252	26686	0.97	ppm		98
32) Indeno[1,2,3-cd]pyrene	22.952	276	32515	1.01	ppm		96
33) Dibenz[a,h]anthracene	22.980	278	26944	1.01	ppm		97
34) Benzo[g,h,i]perylene	23.324	276	28124	1.00	ppm		98
36) 1,4-Dioxane	2.195	88	3094	1.19	ppm	#	1
37) 1-Methylnaphthalene	9.691	142	13589	1.17	ppm	#	78
39) 4,6-dinitro-2-methylph...	12.875	198	13038	4.50	ppm		78

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3004\
Data File : 4m66766.D
Acq On : 11 Jul 2016 8:55 am
Operator : ashleyd
Sample : cc2974-1.0
Misc : op95277a,e4m3004
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 09:21:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	13.018	77	17080	1.02 ppm	97
41) n-nitrosodiphenylamine	12.971	169	11913	1.00 ppm	95

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

7.6.25

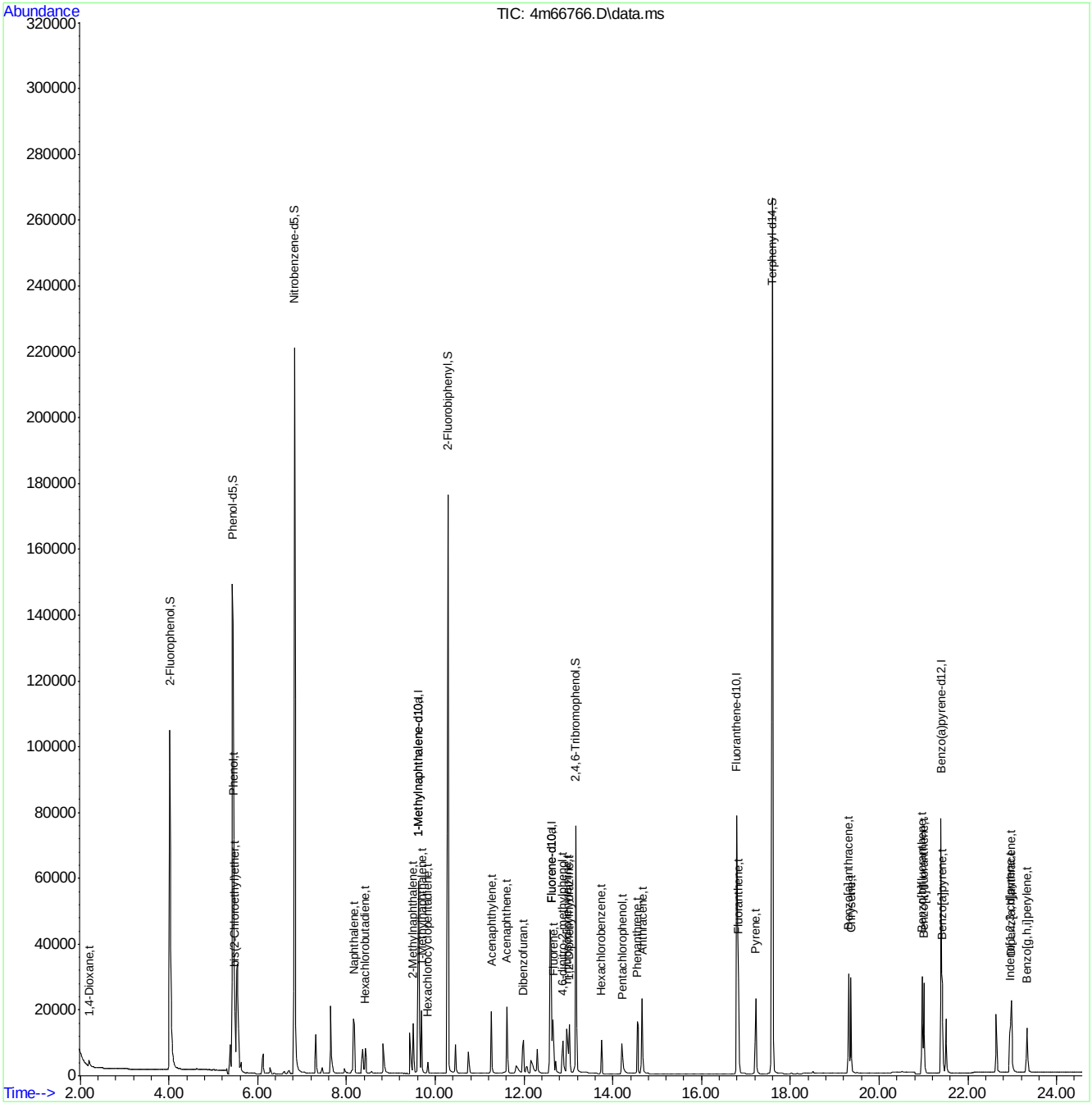
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3004\
Data File : 4m66766.D
Acq On : 11 Jul 2016 8:55 am
Operator : ashleyd
Sample : cc2974-1.0
Misc : op95277a,e4m3004
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 09:21:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Tue Jun 21 08:02:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66795.D
Acq On : 12 Jul 2016 11:23 am
Operator : hankc
Sample : cc2974-1.0
Misc : op95277a,e4m3006
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 11:49:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 11 15:14:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	9.571	152	36365	4.00	ppm		-0.05
12) Fluorene-d10	12.564	176	65012	4.00	ppm		-0.05
22) Fluoranthene-d10	16.751	212	132974	4.00	ppm		-0.04
28) Benzo(a)pyrene-d12	21.355	264	103160	4.00	ppm		-0.04
35) 1-Methylnaphthalene-d10a	9.571	152	36365	4.00	ppm		#-0.05
38) Fluorene-d10a	12.564	176	65012	4.00	ppm		-0.05
System Monitoring Compounds							
2) 2-Fluorophenol	3.975	112	106948	18.46	ppm		-0.04
Spiked Amount 50.000	Range 11 - 58		Recovery = 36.92%				
3) Phenol-d5	5.387	99	178444	19.53	ppm		-0.04
Spiked Amount 50.000			Recovery = 39.06%				
6) Nitrobenzene-d5	6.798	82	169029	20.80	ppm		-0.03
Spiked Amount 50.000			Recovery = 41.60%				
11) 2-Fluorobiphenyl	10.240	172	332003	22.68	ppm		-0.05
Spiked Amount 50.000			Recovery = 45.36%				
17) 2,4,6-Tribromophenol	13.114	330	68146	22.49	ppm		-0.05
Spiked Amount 50.000			Recovery = 44.98%				
25) Terphenyl-d14	17.561	244	378475	20.15	ppm		-0.04
Spiked Amount 50.000			Recovery = 40.30%				
Target Compounds							Qvalue
4) Phenol	5.401	94	46418	4.69	ppm		59
5) bis(2-Chloroethyl)ether	5.442	93	7010	1.00	ppm	#	59
7) Naphthalene	8.129	128	25211	0.99	ppm		96
8) Hexachlorobutadiene	8.392	225	4738	1.09	ppm		95
9) 2-Methylnaphthalene	9.452	142	12620	1.05	ppm		66
10) Hexachlorocyclopentadiene	9.786	237	3630	3.24	ppm		72
13) Acenaphthylene	11.218	152	22142	1.28	ppm		93
14) Acenaphthene	11.564	153	13387	1.25	ppm		91
15) Dibenzofuran	11.941	168	17495	1.01	ppm		100
16) Fluorene	12.612	166	18875	0.98	ppm		93
18) Hexachlorobenzene	13.701	284	7791	1.21	ppm		95
19) Pentachlorophenol	14.171	266	12755	5.39	ppm		79
20) Phenanthrene	14.510	178	30900	1.19	ppm		99
21) Anthracene	14.604	178	28791	1.20	ppm		90
23) Fluoranthene	16.770	202	33721	0.87	ppm		93
24) Pyrene	17.165	202	36570	0.97	ppm		92
26) Benzo[a]anthracene	19.274	228	31993	0.97	ppm		98
27) Chrysene	19.311	228	31085	0.91	ppm		84
29) Benzo[b]fluoranthene	20.928	252	34118	0.95	ppm		98
30) Benzo[k]fluoranthene	20.969	252	31192	0.90	ppm		98
31) Benzo[a]pyrene	21.382	252	29759	0.92	ppm		96
32) Indeno[1,2,3-cd]pyrene	22.883	276	37346	0.99	ppm		92
33) Dibenz[a,h]anthracene	22.924	278	30840	0.98	ppm		94
34) Benzo[g,h,i]perylene	23.268	276	32057	0.97	ppm		98
36) 1,4-Dioxane	2.163	88	2428	0.98	ppm	#	6
37) 1-Methylnaphthalene	9.643	142	13670	1.25	ppm		85
39) 4,6-dinitro-2-methylph...	12.827	198	14071	4.54	ppm		73

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66795.D
Acq On : 12 Jul 2016 11:23 am
Operator : hankc
Sample : cc2974-1.0
Misc : op95277a,e4m3006
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 11:49:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 11 15:14:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Diphenylhydrazine	12.970	77	19699	1.10 ppm	98
41) n-nitrosodiphenylamine	12.923	169	12337	0.97 ppm	99

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

7.6.26

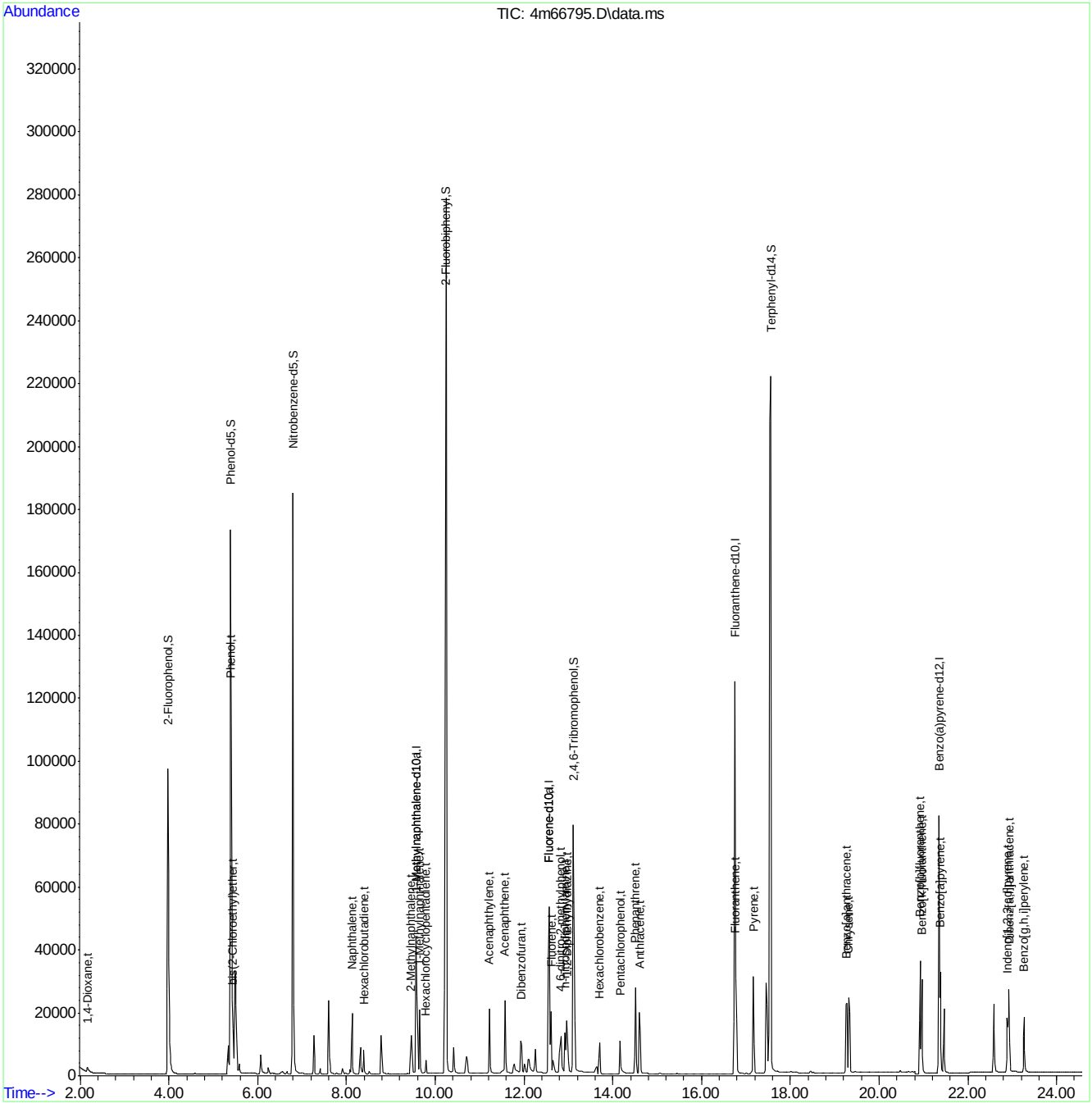
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M3006\
Data File : 4m66795.D
Acq On : 12 Jul 2016 11:23 am
Operator : hankc
Sample : cc2974-1.0
Misc : op95277a,e4m3006
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 11:49:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\M4M2974SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Mon Jul 11 15:14:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:33:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	226909	40.00	ppm	0.00
24) Naphthalene-d8	6.217	136	917604	40.00	ppm	0.00
47) Acenaphthene-d10	7.932	164	555426	40.00	ppm	0.00
69) Phenanthrene-d10	9.492	188	893687	40.00	ppm	0.00
83) Chrysene-d12	13.087	240	762346	40.00	ppm	0.01
91) Perylene-d12	15.144	264	707837	40.00	ppm	0.01
101) 1,4-Dichlorobenzene-d4a	5.004	152	226909	40.00	ppm	0.00
103) Acenaphthene-d10a	7.932	164	555426	40.00	ppm	0.00
105) Chrysene-d12a	13.087	240	762199	40.00	ppm	0.01
108) Phenanthrene-d10a	9.492	188	893687	40.00	ppm	0.00
111) Naphthalene-d8a	6.217	136	917604	40.00	ppm	0.00
113) Chrysene-d12b	13.087	240	762199	40.00	ppm	0.01
115) 1,4-Dichlorobenzene-d4b	5.004	152	226909	40.00	ppm	0.00
117) Chrysene-d12c	13.087	240	762346	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.840	112	706431	102.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	205.18%	
8) Phenol-d5	4.673	99	858728	100.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	201.18%	
25) Nitrobenzene-d5	5.528	82	692698	110.67	ppm	0.00
Spiked Amount 50.000			Recovery	=	221.34%	
51) 2-Fluorobiphenyl	7.264	172	1419371	93.86	ppm	0.00
Spiked Amount 50.000			Recovery	=	187.72%	
73) 2,4,6-Tribromophenol	8.728	330	198939	133.36	ppm	0.00
Spiked Amount 50.000			Recovery	=	266.72%	
85) Terphenyl-d14	11.554	244	1422262	93.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	187.60%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.424	88	293215	95.78	ppm	97
3) Pyridine	2.707	79	725496	101.57	ppm	90
4) N-Nitrosodimethylamine	2.675	74	409862	97.68	ppm	75
6) Indene	5.250	116	1282521	101.27	ppm	98
7) Cumene	4.288	105	1757388	104.70	ppm	96
9) Phenol	4.689	94	1010415	101.97	ppm	82
10) Aniline	4.705	93	987248	88.85	ppm	99
11) bis(2-Chloroethyl)ether	4.759	93	637119	95.08	ppm	97
12) 2-Chlorophenol	4.817	128	791819	102.60	ppm	97
13) Decane	4.860	43	658893	84.41	ppm	95
14) 1,3-Dichlorobenzene	4.956	146	844358	102.08	ppm	98
15) 1,4-Dichlorobenzene	5.020	146	837965	101.51	ppm	98
16) Benzyl alcohol	5.138	108	475932	100.75	ppm	88
17) 1,2-Dichlorobenzene	5.170	146	772640	97.88	ppm	99
18) Acetophenone	5.384	105	1003013	106.01	ppm	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:33:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19) 2-Methylphenol	5.245	108	653468	100.27	ppm		99
20) 2,2'-oxybis(1-Chloropr...	5.255	45	805776	80.60	ppm		89
21) 3&4-Methylphenol	5.389	108	712370	100.41	ppm		95
22) n-Nitroso-di-n-propyla...	5.389	70	442824	99.60	ppm		99
23) Hexachloroethane	5.485	201	260480	112.18	ppm		99
26) Nitrobenzene	5.549	77	701089	105.46	ppm		96
27) Quinoline	6.570	129	1495489	108.03	ppm		97
28) Isophorone	5.774	82	1254107	104.34	ppm		96
29) 2-Nitrophenol	5.848	139	447544	114.47	ppm		86
30) 2,4-Dimethylphenol	5.891	107	719989	111.37	ppm		94
31) Benzoic acid	6.041	105	523131m	240.15	ppm		
32) bis(2-Chloroethoxy)met...	5.977	93	762054	97.18	ppm		99
33) 2,4-Dichlorophenol	6.083	162	631639	109.08	ppm		97
34) 2,6-Dichlorophenol	6.303	162	619529	110.58	ppm		99
35) 1,3,5-Trichlorobenzene	5.864	180	660595	105.23	ppm		100
36) 1,2,4-Trichlorobenzene	6.158	180	630904	106.53	ppm		97
37) 1,2,3-Trichlorobenzene	6.377	180	621163	112.20	ppm		98
38) Naphthalene	6.238	128	2112778	104.50	ppm		98
39) 4-Chloroaniline	6.292	127	899791	106.25	ppm		98
40) 2,3-Dichloroaniline	7.184	161	744330	107.93	ppm		98
41) Caprolactam	6.666	55	303687	104.11	ppm		94
42) Hexachlorobutadiene	6.361	225	337198	130.78	ppm		99
43) 4-Chloro-3-methylphenol	6.773	107	644220	114.81	ppm		97
44) 2-Methylnaphthalene	6.906	141	1225750	105.49	ppm		93
45) 1-Methylnaphthalene	7.008	141	1263104	102.99	ppm		95
46) Dimethylnaphthalene	7.521	156	1281290	111.68	ppm		95
48) Hexachlorocyclopentadiene	7.066	237	751775	242.01	ppm		99
49) 2,4,6-Trichlorophenol	7.189	196	415672	103.15	ppm		99
50) 2,4,5-Trichlorophenol	7.232	196	421146	101.80	ppm		99
52) 2-Chloronaphthalene	7.387	162	1257896	91.47	ppm		98
53) Biphenyl	7.366	154	1748232	92.34	ppm		98
54) 2-Nitroaniline	7.488	65	363021	100.57	ppm		96
55) Dimethylphthalate	7.665	163	1428515	102.25	ppm		97
56) Acenaphthylene	7.793	152	2141470	97.17	ppm		99
57) 2,6-Dinitrotoluene	7.724	165	341196	117.45	ppm		95
58) 3-Nitroaniline	7.889	138	404420	105.58	ppm		94
59) Acenaphthene	7.964	153	1301356	101.76	ppm		95
60) 2,4-Dinitrophenol	7.996	184	379841	315.17	ppm		90
61) 4-Nitrophenol	8.065	109	196499	168.86	ppm	#	59
62) Dibenzofuran	8.135	168	1743809	101.73	ppm		94
63) 2,4-Dinitrotoluene	8.119	165	455676	126.11	ppm		97
64) 2,3,4,6-Tetrachlorophenol	8.258	232	366396	134.22	ppm		96
65) Diethylphthalate	8.359	149	1425194	104.79	ppm		99
66) Fluorene	8.477	166	1445744	102.00	ppm		98
67) 4-Chlorophenyl-phenyle...	8.471	204	630218	113.29	ppm		97
68) 4-Nitroaniline	8.509	138	404954	106.07	ppm		76
70) 4,6-Dinitro-2-methylph...	8.536	198	268096	176.38	ppm		97
71) n-Nitrosodiphenylamine	8.594	169	959490	103.25	ppm		100
72) 1,2-Diphenylhydrazine	8.637	77	1319004	97.94	ppm		95
74) 4-Bromophenyl-phenylether	8.984	248	400562	119.83	ppm		98

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:33:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	Hexachlorobenzene	9.064	284	417922	111.97	ppm	99
76)	Pentachlorophenol	9.283	266	504533	352.78	ppm	99
77)	Phenanthrene	9.519	178	1952830	101.51	ppm	99
78)	Anthracene	9.583	178	2005032	103.04	ppm	99
79)	Carbazole	9.770	167	1961919	101.37	ppm	98
80)	Di-n-butylphthalate	10.202	149	2470863	101.96	ppm	99
81)	Fluoranthene	11.020	202	2061802	107.26	ppm	94
82)	Octadecane	9.369	57	852451	81.89	ppm	95
84)	Pyrene	11.324	202	2144964	80.97	ppm	98
86)	Butylbenzylphthalate	12.286	149	1111132	98.77	ppm	99
87)	Benzo[a]anthracene	13.071	228	2024049	100.90	ppm	99
88)	3,3'-Dichlorobenzidine	13.055	252	774274	112.34	ppm	97
89)	Chrysene	13.130	228	1970855	103.59	ppm	99
90)	bis(2-Ethylhexyl)phtha...	13.178	149	1523504	95.49	ppm	98
92)	Di-n-octylphthalate	14.140	149	2710360	88.02	ppm	98
93)	Benzo[b]fluoranthene	14.636	252	2141000	102.36	ppm	94
94)	Benzo[k]fluoranthene	14.674	252	1935791	97.11	ppm	93
95)	Benzo[a]pyrene	15.074	252	1881295	105.02	ppm	92
96)	Indeno[1,2,3-cd]pyrene	16.869	276	1924662m	108.56	ppm	
97)	Dibenz(a,h)acridine	16.458	279	1705659	117.11	ppm	97
98)	Dibenz[a,h]anthracene	16.912	278	1894216	104.53	ppm	83
99)	7,12-Dimethylbenz(a)an...	14.631	256	989289	106.59	ppm	97
100)	Benzo[g,h,i]perylene	17.372	276	1957793	98.77	ppm	78

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

7.6.27

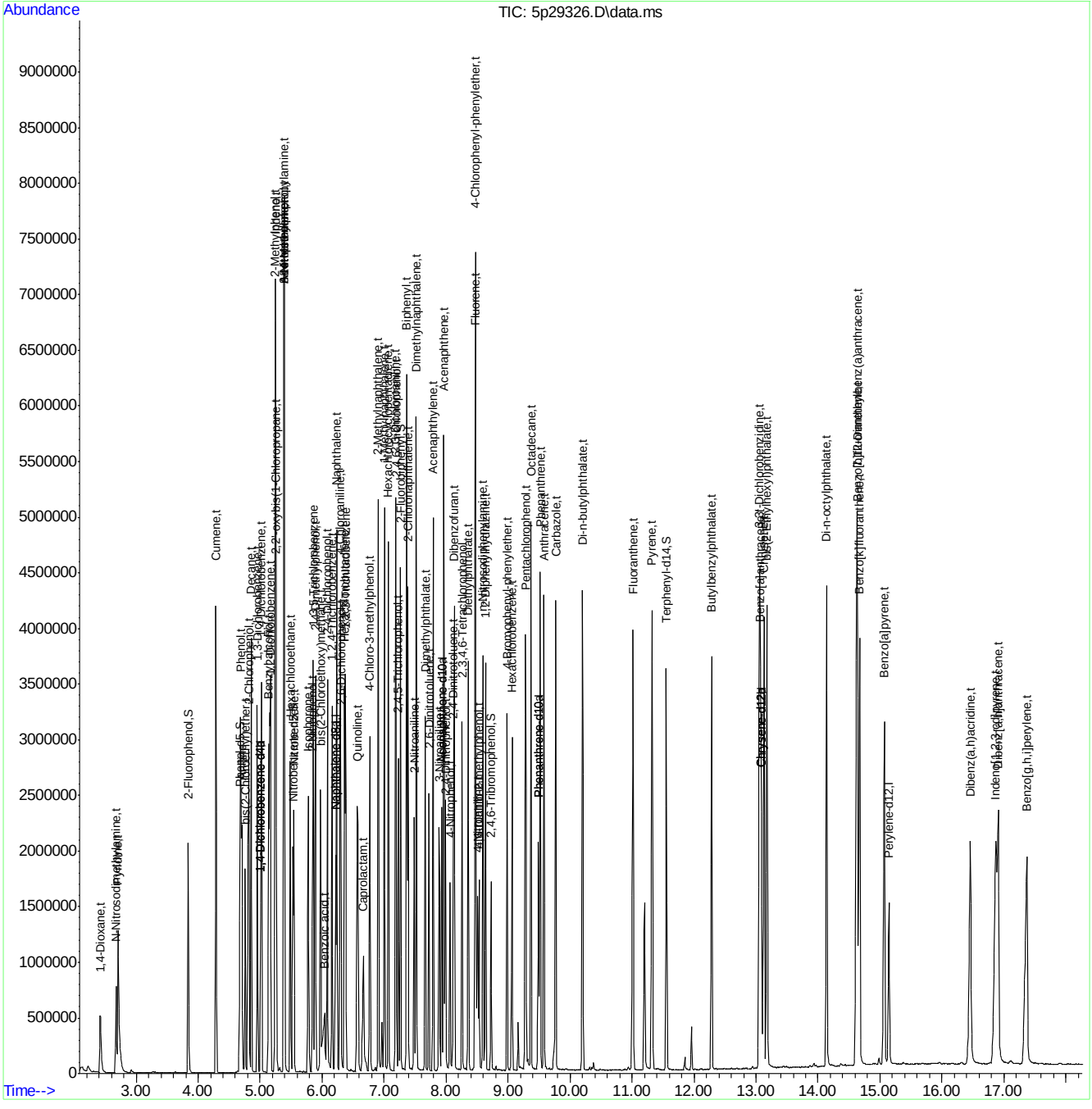
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:33:45 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Manual Integration Approval Summary

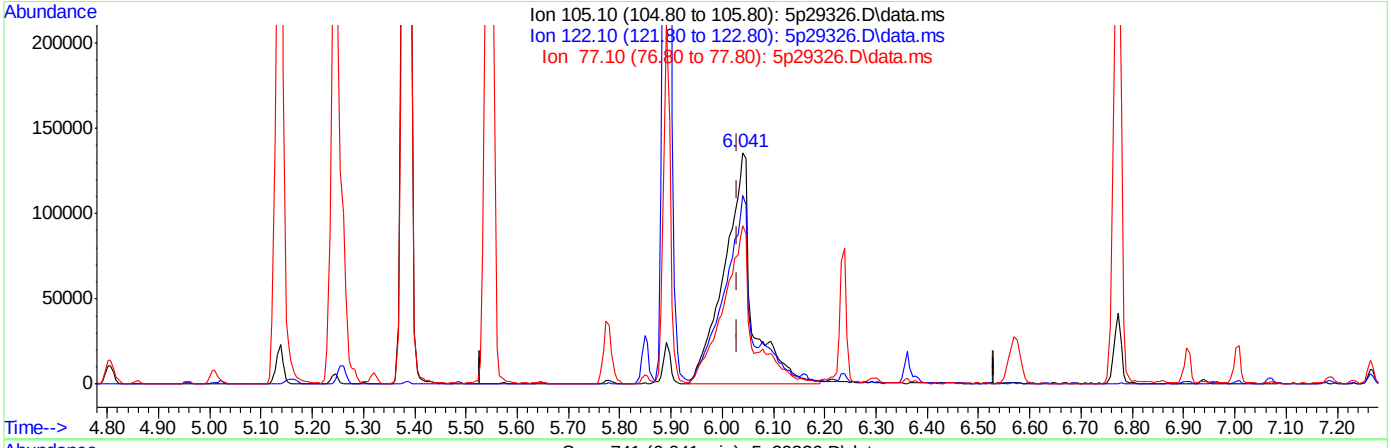
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29326.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 12:12	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

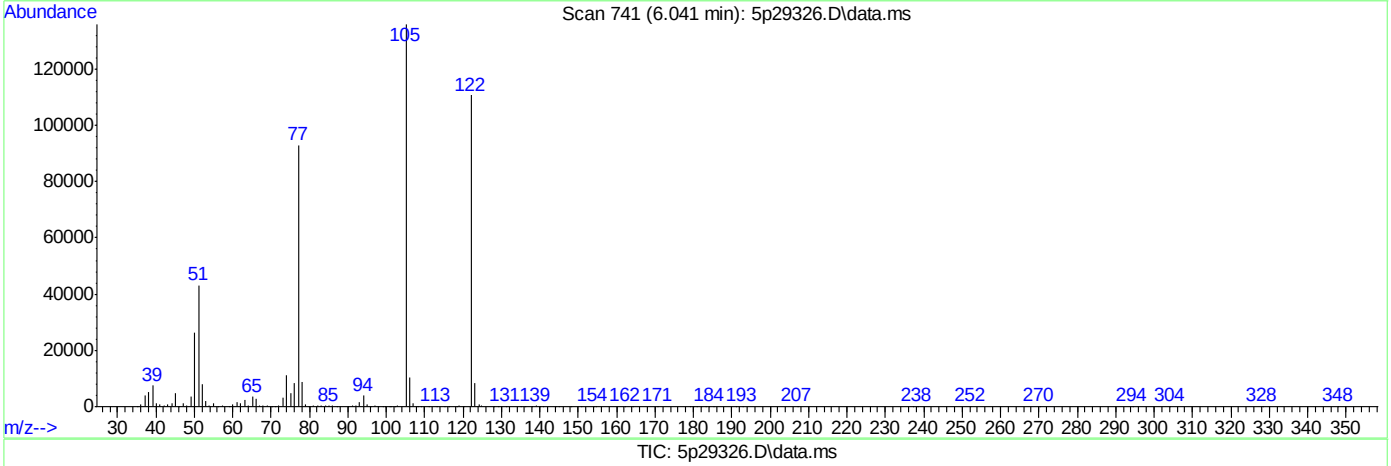
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.04	Split peak
Indeno(1,2,3-cd)pyrene	193-39-5		16.87	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:30:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration





TIC: 5p29326.D\data.ms

(31) Benzoic acid (t)

6.041min (+0.011) 240.15ppm m

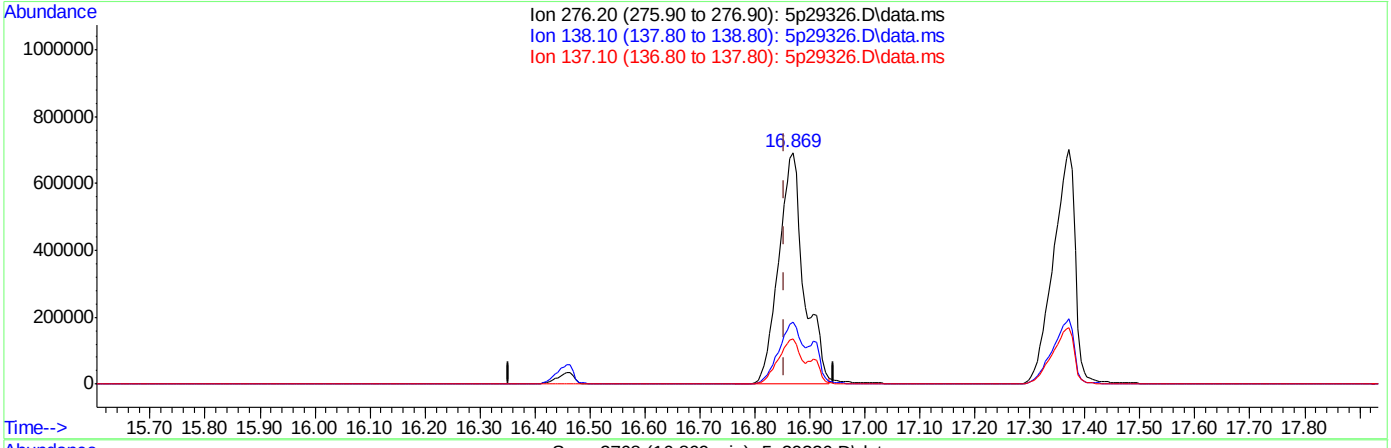
response 523131

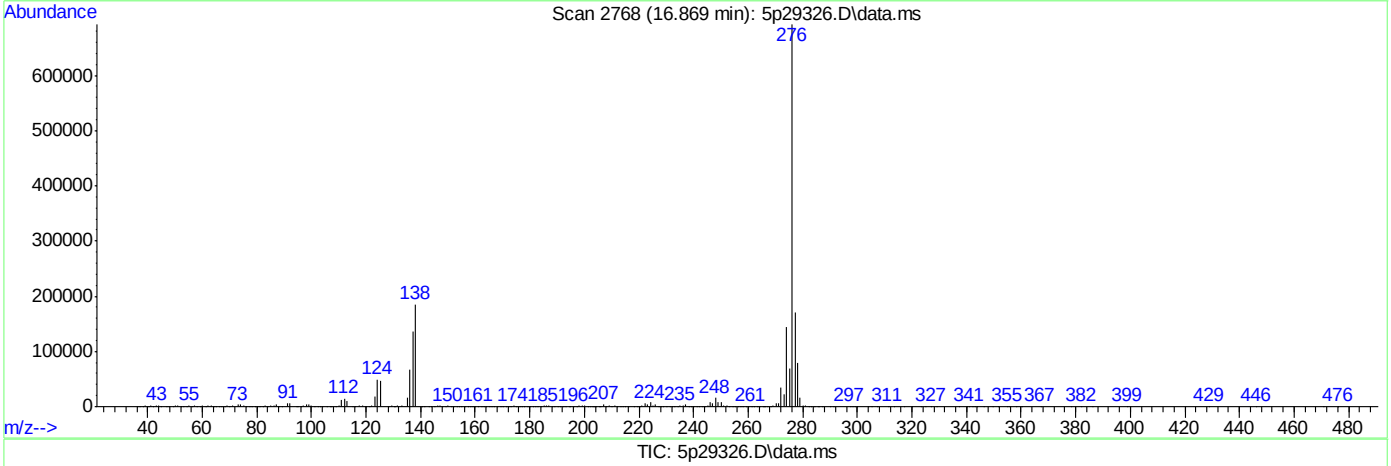
Ion	Exp%	Act%
105.10	100	100
122.10	85.00	81.52
77.10	68.90	68.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:30:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration





TIC: 5p29326.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.869min (+0.016) 124.67ppm

response 2210298

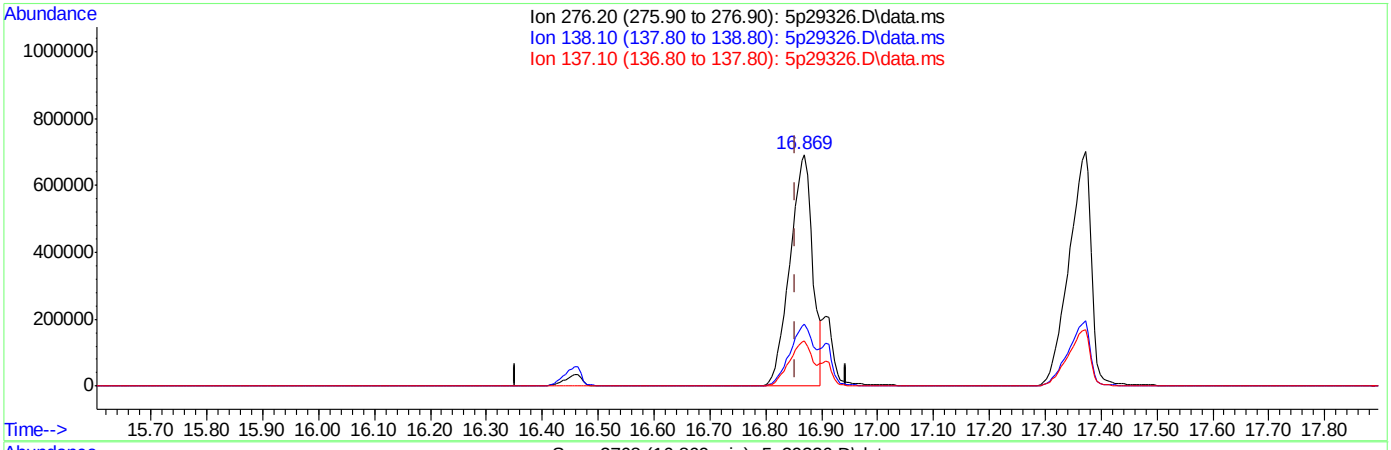
Ion	Exp%	Act%
276.20	100	100
138.10	46.90	26.49
137.10	32.70	19.49
0.00	0.00	0.00

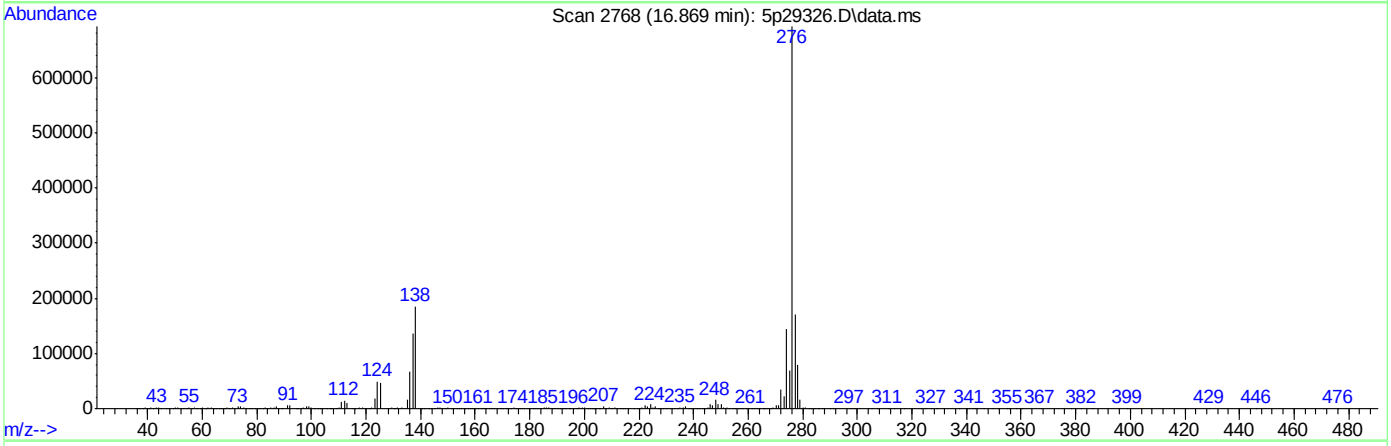
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29326.D
Acq On : 1 Jul 2016 12:12 pm
Operator : kristis
Sample : ic1496-100
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 01 12:30:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:04:23 2016
Response via : Initial Calibration





TIC: 5p29326.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.869min (+0.016) 108.56ppm m

response 1924662

Ion	Exp%	Act%
276.20	100	100
138.10	46.90	26.69
137.10	32.70	19.63
0.00	0.00	0.00

SGS ACCUTEST JC23654

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	324780	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1294389	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	790538	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1254485	40.00	ppm	-0.01
83) Chrysene-d12	13.071	240	1047584	40.00	ppm	-0.02
91) Perylene-d12	15.139	264	956723	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	324780	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	790538	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1047584	40.00	ppm	-0.02
108) Phenanthrene-d10a	9.481	188	1254485	40.00	ppm	-0.01
111) Naphthalene-d8a	6.212	136	1294389	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1047584	40.00	ppm	-0.02
115) 1,4-Dichlorobenzene-d4b	5.004	152	324803	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1047584	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	17047	1.69	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.38%	
8) Phenol-d5	4.662	99	23493	1.91	ppm	-0.01
Spiked Amount 50.000			Recovery	=	3.82%	
25) Nitrobenzene-d5	5.517	82	17391	1.78	ppm	-0.01
Spiked Amount 50.000			Recovery	=	3.56%	
51) 2-Fluorobiphenyl	7.259	172	43900	2.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.34%	
73) 2,4,6-Tribromophenol	8.717	330	5166	1.85	ppm	-0.01
Spiked Amount 50.000			Recovery	=	3.70%	
85) Terphenyl-d14	11.543	244	40428	2.07	ppm	-0.01
Spiked Amount 50.000			Recovery	=	4.14%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.429	88	9934	2.37	ppm	93
3) Pyridine	2.729	79	21404	2.06	ppm	97
4) N-Nitrosodimethylamine	2.686	74	12100	2.06	ppm	98
6) Indene	5.245	116	39479	2.15	ppm	99
7) Cumene	4.289	105	53409	2.12	ppm	98
9) Phenol	4.673	94	28546	1.97	ppm	86
10) Aniline	4.700	93	32435	2.30	ppm	95
11) bis(2-Chloroethyl)ether	4.753	93	19414	2.13	ppm	94
12) 2-Chlorophenol	4.812	128	23702	2.09	ppm	94
13) Decane	4.855	43	21550	2.29	ppm	98
14) 1,3-Dichlorobenzene	4.956	146	26660	2.21	ppm	96
15) 1,4-Dichlorobenzene	5.020	146	25363	2.11	ppm	96
16) Benzyl alcohol	5.127	108	13612	2.00	ppm	92
17) 1,2-Dichlorobenzene	5.165	146	24782	2.24	ppm	95
18) Acetophenone	5.373	105	29378	2.05	ppm	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19) 2-Methylphenol	5.234	108	19770	2.11	ppm		99
20) 2,2'-oxybis(1-Chloropr...	5.255	45	27870	2.42	ppm		98
21) 3&4-Methylphenol	5.373	108	20741	2.03	ppm		91
22) n-Nitroso-di-n-propyla...	5.373	70	13699	2.16	ppm		93
23) Hexachloroethane	5.485	201	7554	2.03	ppm		88
26) Nitrobenzene	5.539	77	18592	1.88	ppm		96
27) Quinoline	6.554	129	42920	2.03	ppm		99
28) Isophorone	5.763	82	35784	2.02	ppm		96
29) 2-Nitrophenol	5.843	139	11741	1.86	ppm		88
30) 2,4-Dimethylphenol	5.880	107	21793	2.15	ppm		93
32) bis(2-Chloroethoxy)met...	5.966	93	23096	2.15	ppm		98
33) 2,4-Dichlorophenol	6.078	162	18248	2.05	ppm		90
34) 2,6-Dichlorophenol	6.292	162	18491	2.12	ppm		98
35) 1,3,5-Trichlorobenzene	5.854	180	21086	2.26	ppm		98
36) 1,2,4-Trichlorobenzene	6.153	180	18835	2.12	ppm		95
37) 1,2,3-Trichlorobenzene	6.372	180	18494	2.11	ppm		95
38) Naphthalene	6.228	128	62033	2.08	ppm		98
39) 4-Chloroaniline	6.281	127	25567	2.01	ppm		94
40) 2,3-Dichloroaniline	7.179	161	22238	2.12	ppm		96
41) Caprolactam	6.586	55	8751	2.04	ppm		94
42) Hexachlorobutadiene	6.356	225	9555	2.01	ppm		99
43) 4-Chloro-3-methylphenol	6.757	107	19051	2.10	ppm		89
44) 2-Methylnaphthalene	6.901	141	35775	2.07	ppm		93
45) 1-Methylnaphthalene	6.997	141	39283	2.20	ppm		94
46) Dimethylnaphthalene	7.510	156	37628	2.08	ppm		90
48) Hexachlorocyclopentadiene	7.066	237	12676	2.37	ppm		97
49) 2,4,6-Trichlorophenol	7.184	196	11352	1.92	ppm		94
50) 2,4,5-Trichlorophenol	7.227	196	11627	1.94	ppm		86
52) 2-Chloronaphthalene	7.376	162	40211	2.25	ppm		95
53) Biphenyl	7.355	154	52074	2.09	ppm		98
54) 2-Nitroaniline	7.473	65	9218	1.78	ppm		95
55) Dimethylphthalate	7.654	163	33127	1.63	ppm		97
56) Acenaphthylene	7.782	152	51336	1.68	ppm		100
57) 2,6-Dinitrotoluene	7.708	165	6796	1.40	ppm		83
58) 3-Nitroaniline	7.878	138	10280	1.79	ppm		89
59) Acenaphthene	7.953	153	39824	2.15	ppm		96
60) 2,4-Dinitrophenol	7.996	184	1542	0.57	ppm	#	35
61) 4-Nitrophenol	8.060	109	4126	1.48	ppm	#	51
62) Dibenzofuran	8.124	168	51104	2.06	ppm		92
63) 2,4-Dinitrotoluene	8.103	165	11489	1.77	ppm		93
64) 2,3,4,6-Tetrachlorophenol	8.252	232	7220	1.38	ppm		89
65) Diethylphthalate	8.343	149	37479	1.85	ppm		96
66) Fluorene	8.466	166	43514	2.11	ppm		95
67) 4-Chlorophenyl-phenyle...	8.466	204	18651	2.08	ppm		98
68) 4-Nitroaniline	8.482	138	10708	1.86	ppm		90
70) 4,6-Dinitro-2-methylph...	8.514	198	2221	0.59	ppm		91
71) n-Nitrosodiphenylamine	8.584	169	29252	2.17	ppm		99
72) 1,2-Diphenylhydrazine	8.626	77	37470	2.02	ppm		97
74) 4-Bromophenyl-phenylether	8.979	248	11986	2.13	ppm		90
75) Hexachlorobenzene	9.054	284	12211	2.08	ppm		92

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	Pentachlorophenol	9.273	266	4652	1.31	ppm	87
77)	Phenanthrene	9.508	178	58184	2.12	ppm	99
78)	Anthracene	9.567	178	59522	2.11	ppm	98
79)	Carbazole	9.754	167	58515	2.12	ppm	98
80)	Di-n-butylphthalate	10.192	149	68589	1.98	ppm	96
81)	Fluoranthene	11.004	202	60566	2.09	ppm	93
82)	Octadecane	9.364	57	24048	2.01	ppm	93
84)	Pyrene	11.314	202	64100	2.17	ppm	96
86)	Butylbenzylphthalate	12.275	149	30098	1.97	ppm	96
87)	Benzo[a]anthracene	13.055	228	60500	2.18	ppm	96
88)	3,3'-Dichlorobenzidine	13.039	252	22612	2.13	ppm	94
89)	Chrysene	13.109	228	57089	2.11	ppm	97
90)	bis(2-Ethylhexyl)phtha...	13.173	149	40555	1.94	ppm	97
92)	Di-n-octylphthalate	14.129	149	70173	1.92	ppm	98
93)	Benzo[b]fluoranthene	14.604	252	58869m	2.03	ppm	
94)	Benzo[k]fluoranthene	14.642	252	60220	2.30	ppm	92
95)	Benzo[a]pyrene	15.048	252	52974	2.08	ppm	87
96)	Indeno[1,2,3-cd]pyrene	16.816	276	44918m	1.73	ppm	
97)	Dibenz(a,h)acridine	16.426	279	46979	2.04	ppm	99
98)	Dibenz[a,h]anthracene	16.864	278	51177	2.00	ppm	81
99)	7,12-Dimethylbenz(a)an...	14.599	256	26040	1.95	ppm	91
100)	Benzo[g,h,i]perylene	17.313	276	50457	1.91	ppm	82

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

7.6.28

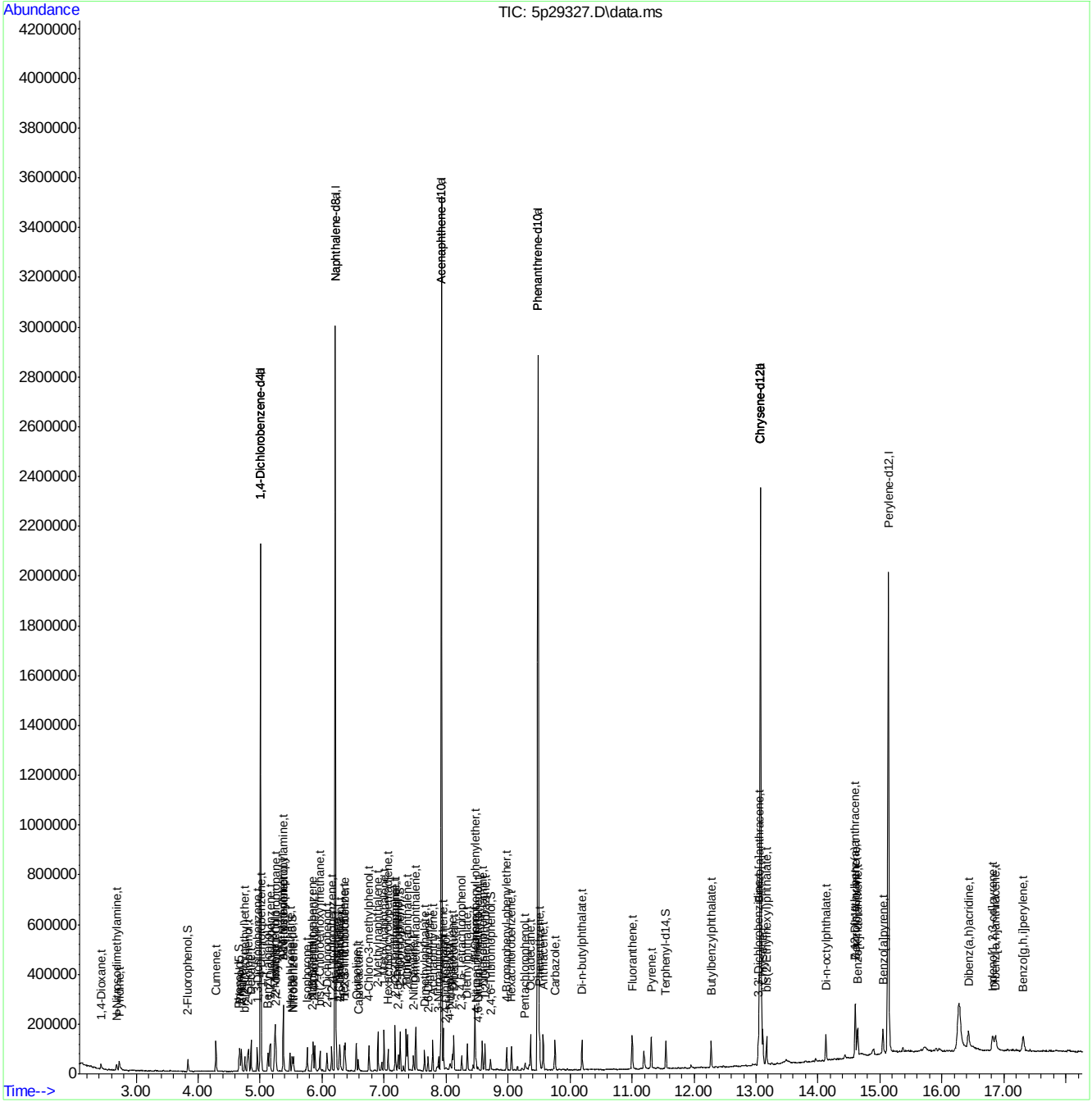
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Manual Integration Approval Summary

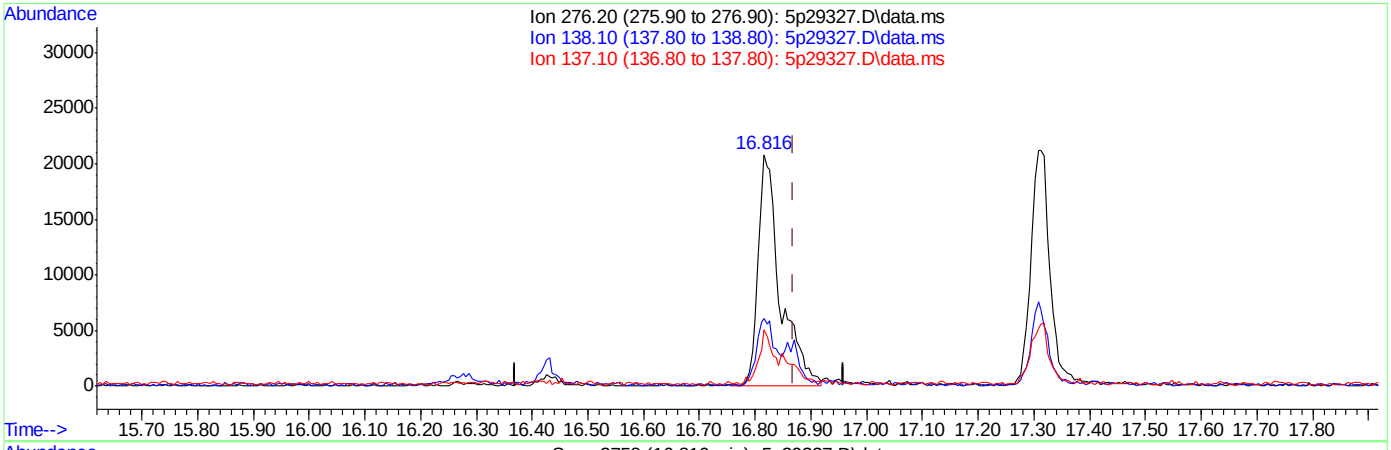
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29327.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 12:38	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

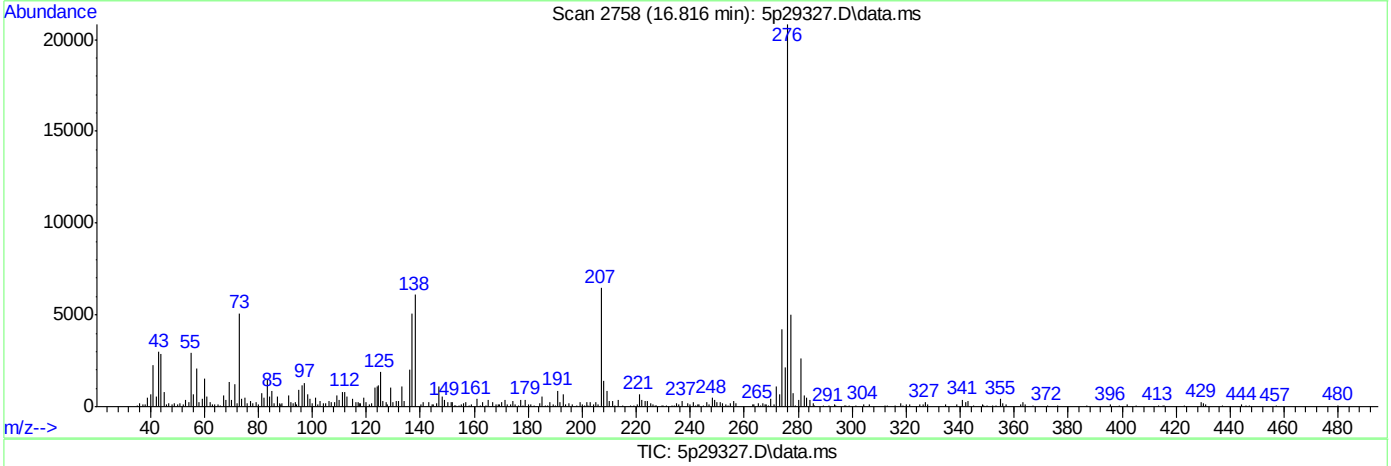
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		14.60	Overlapping peak
Indeno(1,2,3-cd)pyrene	193-39-5		16.82	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:25:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration





(96) Indeno[1,2,3-cd]pyrene (t)

16.816min (-0.053) 2.23ppm

response 58071

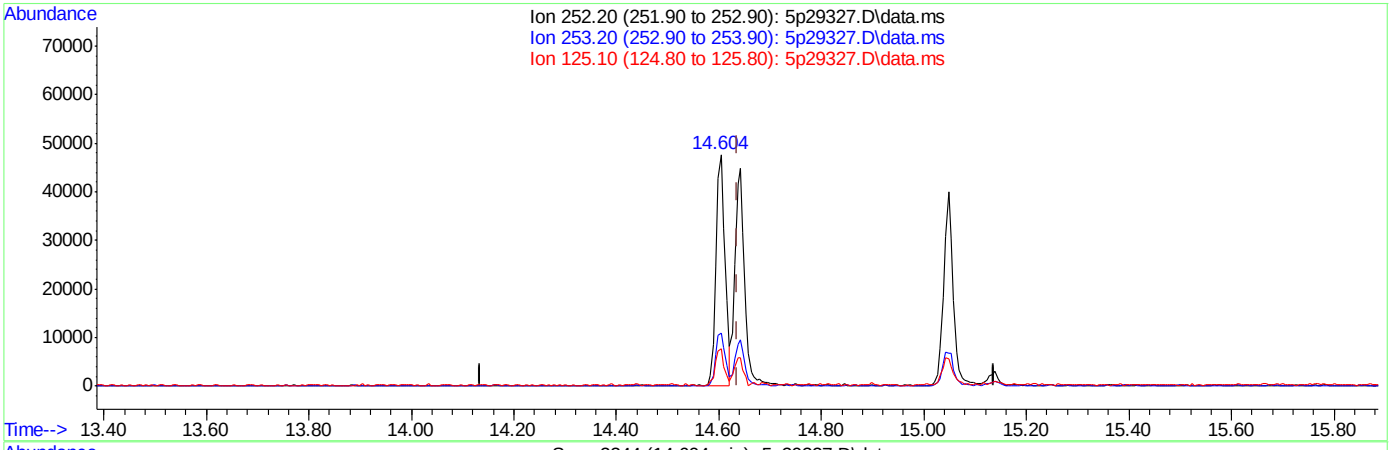
Ion	Exp%	Act%
276.20	100	100
138.10	46.90	28.03
137.10	32.70	23.03
0.00	0.00	0.00

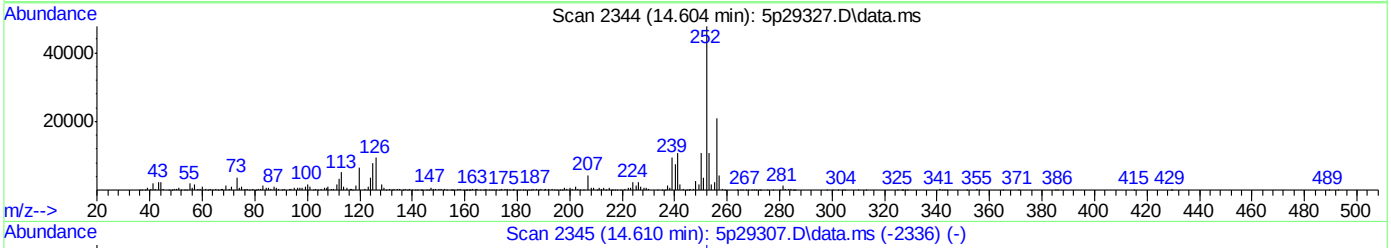
SGS ACCUTEST JC23654

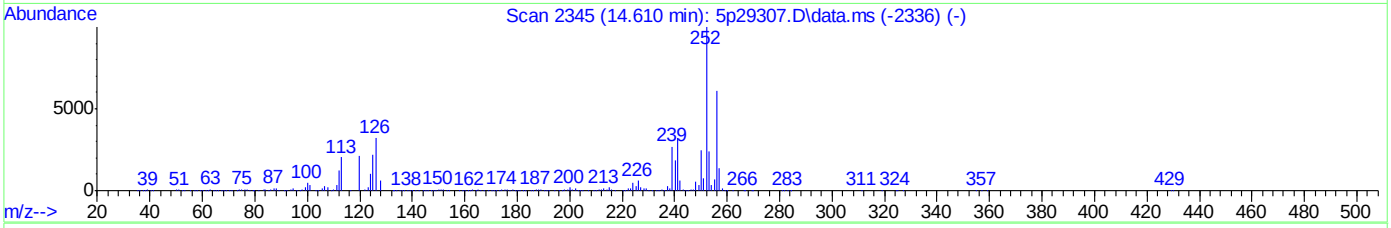
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration







TIC: 5p29327.D\data.ms

(93) Benzo[b]fluoranthene (t)

14.604min (-0.032) 2.03ppm m

response 58869

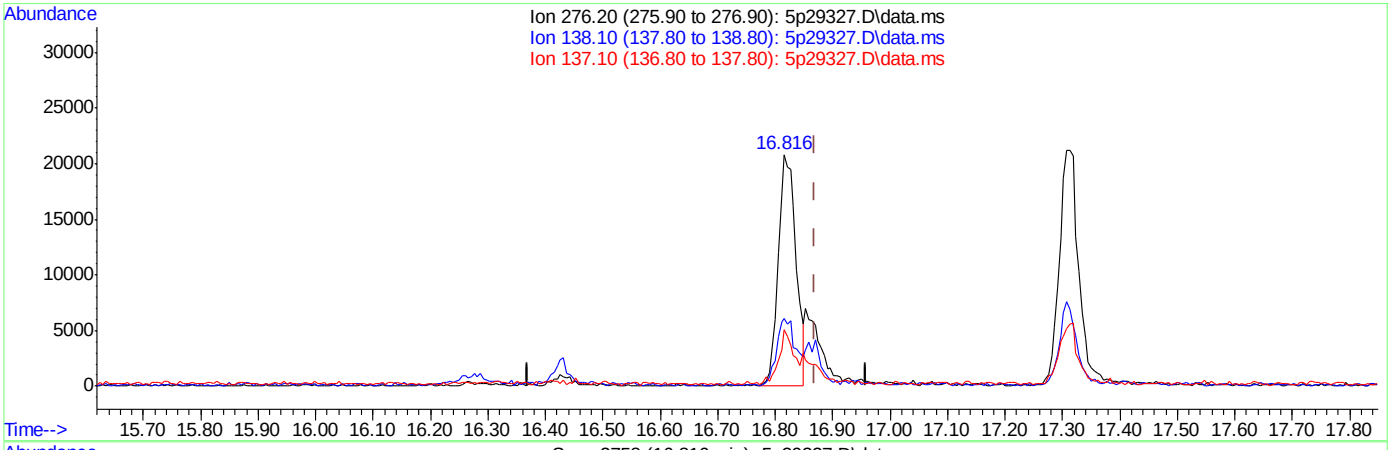
Ion	Exp%	Act%
252.20	100	100
253.20	26.00	22.99
125.10	23.40	16.37
0.00	0.00	0.00

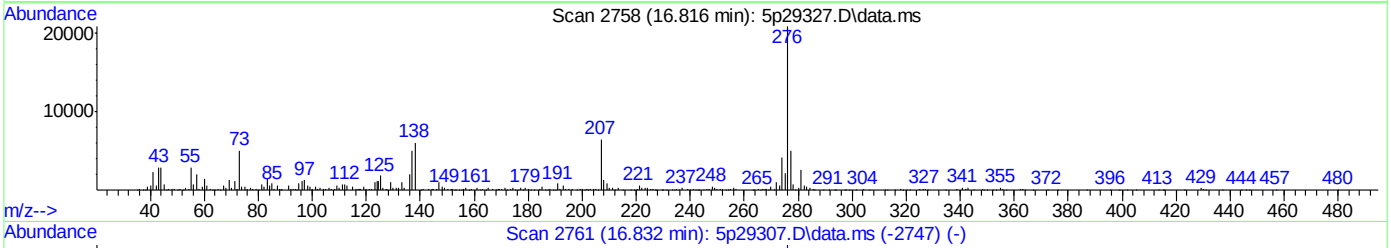
SGS ACCUTEST JC23654

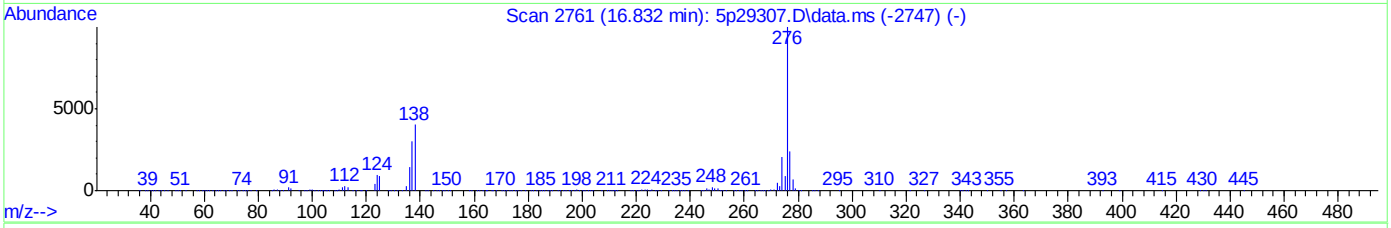
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29327.D
Acq On : 1 Jul 2016 12:38 pm
Operator : kristis
Sample : ic1496-2
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 01 13:27:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:25:18 2016
Response via : Initial Calibration







TIC: 5p29327.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.816min (-0.053) 1.73ppm m

response 44918

Ion	Exp%	Act%
276.20	100	100
138.10	46.90	29.29
137.10	32.70	24.44
0.00	0.00	0.00

SGS ACCUTEST JC23654

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	276957	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1223612	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	750062	40.00	ppm	0.00
69) Phenanthrene-d10	9.487	188	1218992	40.00	ppm	0.00
83) Chrysene-d12	13.087	240	993755	40.00	ppm	0.00
91) Perylene-d12	15.144	264	974655	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	276957	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	750062	40.00	ppm	0.00
105) Chrysene-d12a	13.087	240	993931	40.00	ppm	0.00
108) Phenanthrene-d10a	9.487	188	1218992	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1223612	40.00	ppm	0.00
113) Chrysene-d12b	13.087	240	993931	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	276957	40.00	ppm	0.00
117) Chrysene-d12c	13.087	240	993931	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	725908	84.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	168.38%	
8) Phenol-d5	4.673	99	874624	83.45	ppm	0.00
Spiked Amount 50.000			Recovery	=	166.90%	
25) Nitrobenzene-d5	5.528	82	693591	75.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	150.18%	
51) 2-Fluorobiphenyl	7.264	172	1428914	74.55	ppm	0.00
Spiked Amount 50.000			Recovery	=	149.10%	
73) 2,4,6-Tribromophenol	8.723	330	208763	76.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	153.86%	
85) Terphenyl-d14	11.554	244	1470674	79.32	ppm	0.00
Spiked Amount 50.000			Recovery	=	158.64%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.424	88	293334	81.96	ppm	94
3) Pyridine	2.707	79	773597	87.36	ppm	92
4) N-Nitrosodimethylamine	2.675	74	440744	88.10	ppm	85
6) Indene	5.250	116	1212415	77.45	ppm	97
7) Cumene	4.289	105	1757551	81.94	ppm	97
9) Phenol	4.684	94	1018436	82.58	ppm	88
10) Aniline	4.705	93	1039231	86.24	ppm	98
11) bis(2-Chloroethyl)ether	4.759	93	654628	84.18	ppm	94
12) 2-Chlorophenol	4.817	128	795706	82.33	ppm	96
13) Decane	4.860	43	648715	80.66	ppm	95
14) 1,3-Dichlorobenzene	4.956	146	845441	82.03	ppm	99
15) 1,4-Dichlorobenzene	5.020	146	781617	76.42	ppm	98
16) Benzyl alcohol	5.138	108	453145	78.01	ppm	96
17) 1,2-Dichlorobenzene	5.165	146	728583	77.26	ppm	99
18) Acetophenone	5.384	105	928877	75.87	ppm	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19) 2-Methylphenol	5.239	108	635574	79.69	ppm		98
20) 2,2'-oxybis(1-Chloropr...	5.255	45	804688	81.82	ppm		92
21) 3&4-Methylphenol	5.384	108	668528	76.89	ppm		96
22) n-Nitroso-di-n-propyla...	5.384	70	413742	76.55	ppm		100
23) Hexachloroethane	5.485	201	263138	82.77	ppm		96
26) Nitrobenzene	5.544	77	695085	74.35	ppm		98
27) Quinoline	6.564	129	1559625	78.21	ppm		99
28) Isophorone	5.774	82	1270116	75.95	ppm		98
29) 2-Nitrophenol	5.848	139	453129	75.93	ppm		94
30) 2,4-Dimethylphenol	5.891	107	715830	74.56	ppm		95
31) Benzoic acid	6.025	105	510772m	73.22	ppm		
32) bis(2-Chloroethoxy)met...	5.971	93	761637	74.95	ppm		98
33) 2,4-Dichlorophenol	6.084	162	656018	77.89	ppm		97
34) 2,6-Dichlorophenol	6.297	162	612712	74.17	ppm		99
35) 1,3,5-Trichlorobenzene	5.859	180	659439	74.86	ppm		98
36) 1,2,4-Trichlorobenzene	6.158	180	647186	76.93	ppm		98
37) 1,2,3-Trichlorobenzene	6.377	180	620942	74.96	ppm		98
38) Naphthalene	6.233	128	2132883	75.71	ppm		99
39) 4-Chloroaniline	6.287	127	902930	75.25	ppm		99
40) 2,3-Dichloroaniline	7.184	161	726707	73.22	ppm		99
41) Caprolactam	6.655	55	307926	76.04	ppm		92
42) Hexachlorobutadiene	6.361	225	330126	73.42	ppm		100
43) 4-Chloro-3-methylphenol	6.767	107	645302	75.12	ppm		99
44) 2-Methylnaphthalene	6.906	141	1208853	73.96	ppm		97
45) 1-Methylnaphthalene	7.002	141	1270279	75.42	ppm		94
46) Dimethylnaphthalene	7.521	156	1266632	74.13	ppm		95
48) Hexachlorocyclopentadiene	7.066	237	707369	139.35	ppm		100
49) 2,4,6-Trichlorophenol	7.189	196	408142	72.71	ppm		98
50) 2,4,5-Trichlorophenol	7.227	196	440239	77.41	ppm		99
52) 2-Chloronaphthalene	7.382	162	1272827	74.93	ppm		96
53) Biphenyl	7.366	154	1725580	73.09	ppm		99
54) 2-Nitroaniline	7.483	65	358528	73.13	ppm		97
55) Dimethylphthalate	7.659	163	1434141	74.34	ppm		97
56) Acenaphthylene	7.788	152	2162055	74.76	ppm		99
57) 2,6-Dinitrotoluene	7.718	165	346542	75.21	ppm		95
58) 3-Nitroaniline	7.889	138	423749	77.59	ppm		96
59) Acenaphthene	7.964	153	1283943	73.06	ppm		95
60) 2,4-Dinitrophenol	7.991	184	372644	145.30	ppm	#	68
61) 4-Nitrophenol	8.060	109	185006	69.72	ppm	#	66
62) Dibenzofuran	8.130	168	1762979	74.86	ppm		93
63) 2,4-Dinitrotoluene	8.114	165	467530	75.98	ppm		98
64) 2,3,4,6-Tetrachlorophenol	8.258	232	372842	75.35	ppm		100
65) Diethylphthalate	8.359	149	1416352	73.59	ppm		99
66) Fluorene	8.477	166	1358648	69.59	ppm		97
67) 4-Chlorophenyl-phenyle...	8.472	204	585526	68.80	ppm		99
68) 4-Nitroaniline	8.504	138	421323	77.04	ppm		83
70) 4,6-Dinitro-2-methylph...	8.530	198	274684	75.12	ppm		95
71) n-Nitrosodiphenylamine	8.594	169	985088	75.27	ppm		100
72) 1,2-Diphenylhydrazine	8.632	77	1283246	71.33	ppm		96
74) 4-Bromophenyl-phenylether	8.984	248	403997	73.94	ppm		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	Hexachlorobenzene	9.064	284	430515	75.52	ppm	96
76)	Pentachlorophenol	9.284	266	487483	141.67	ppm	98
77)	Phenanthrene	9.519	178	1976548	74.20	ppm	99
78)	Anthracene	9.577	178	2053194	75.07	ppm	99
79)	Carbazole	9.764	167	2024922	75.67	ppm	98
80)	Di-n-butylphthalate	10.197	149	2475615	73.45	ppm	99
81)	Fluoranthene	11.014	202	2140958	76.13	ppm	96
82)	Octadecane	9.369	57	845118	72.68	ppm	97
84)	Pyrene	11.319	202	2200140	78.69	ppm	99
86)	Butylbenzylphthalate	12.281	149	1117674	77.17	ppm	99
87)	Benzo[a]anthracene	13.066	228	1998758	75.76	ppm	99
88)	3,3'-Dichlorobenzidine	13.050	252	794644	78.73	ppm	95
89)	Chrysene	13.125	228	1990445	77.48	ppm	99
90)	bis(2-Ethylhexyl)phtha...	13.178	149	1507683	75.92	ppm	97
92)	Di-n-octylphthalate	14.134	149	2702920	72.43	ppm	97
93)	Benzo[b]fluoranthene	14.631	252	2103816	71.36	ppm	92
94)	Benzo[k]fluoranthene	14.669	252	1945308	72.98	ppm	92
95)	Benzo[a]pyrene	15.069	252	1946385	75.14	ppm	93
96)	Indeno[1,2,3-cd]pyrene	16.859	276	1977236m	74.61	ppm	
97)	Dibenz(a,h)acridine	16.458	279	1788596	76.16	ppm	98
98)	Dibenz[a,h]anthracene	16.902	278	1972213	75.61	ppm	85
99)	7,12-Dimethylbenz(a)an...	14.626	256	959893	70.47	ppm	97
100)	Benzo[g,h,i]perylene	17.361	276	2016996	74.82	ppm	81

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

7.6.29

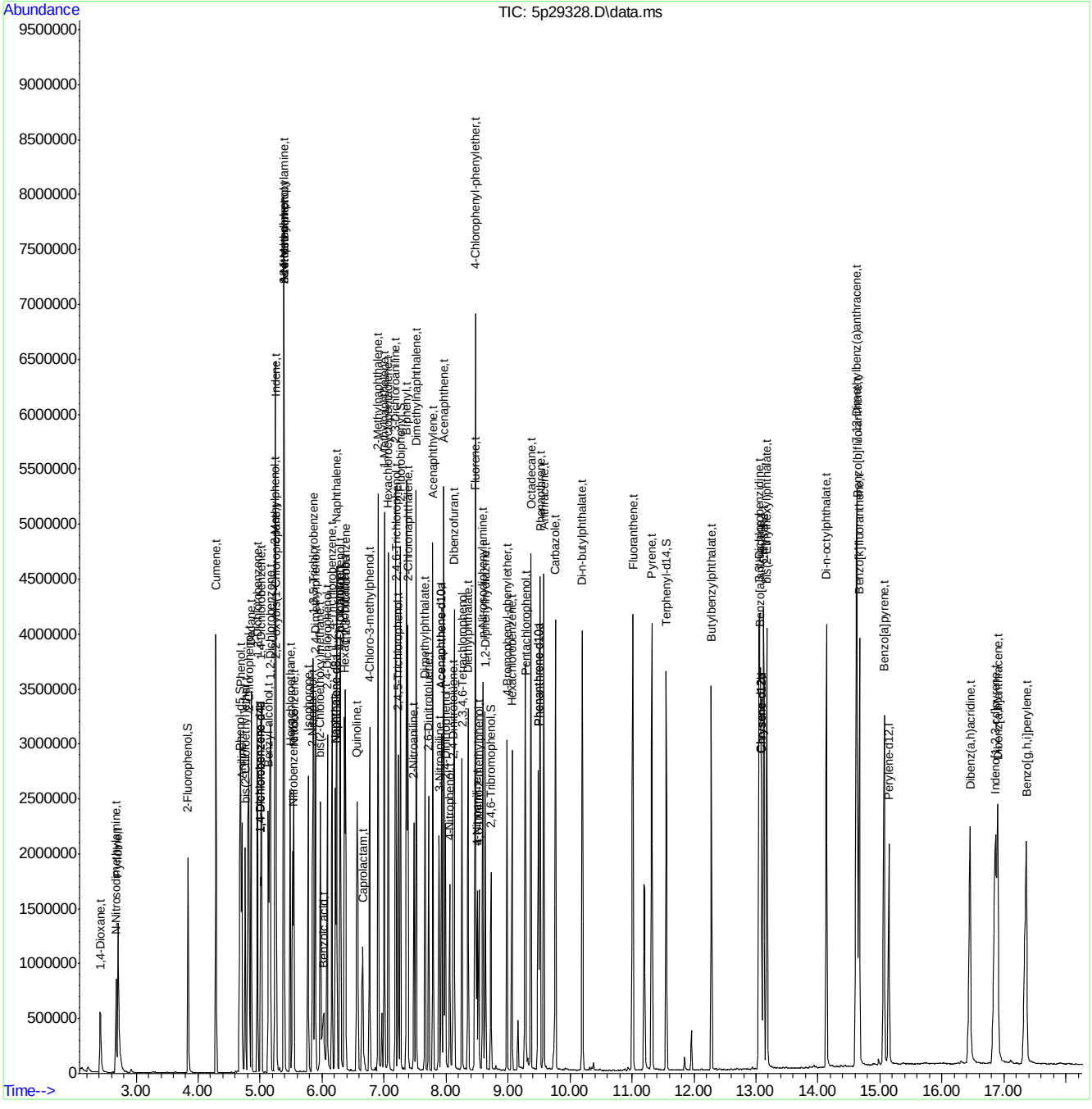
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:29:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Manual Integration Approval Summary

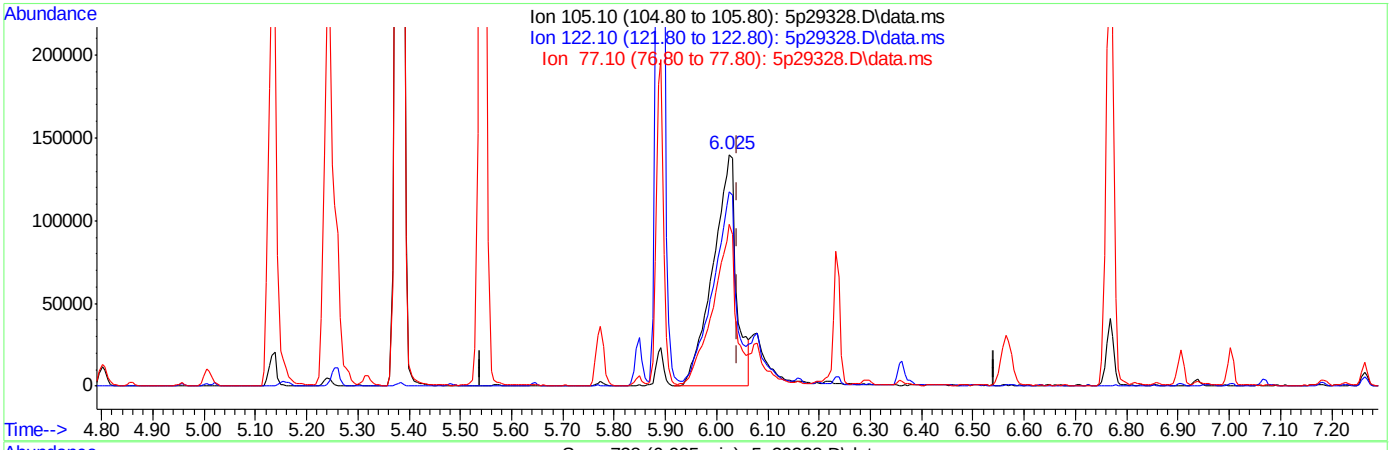
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29328.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 13:04	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

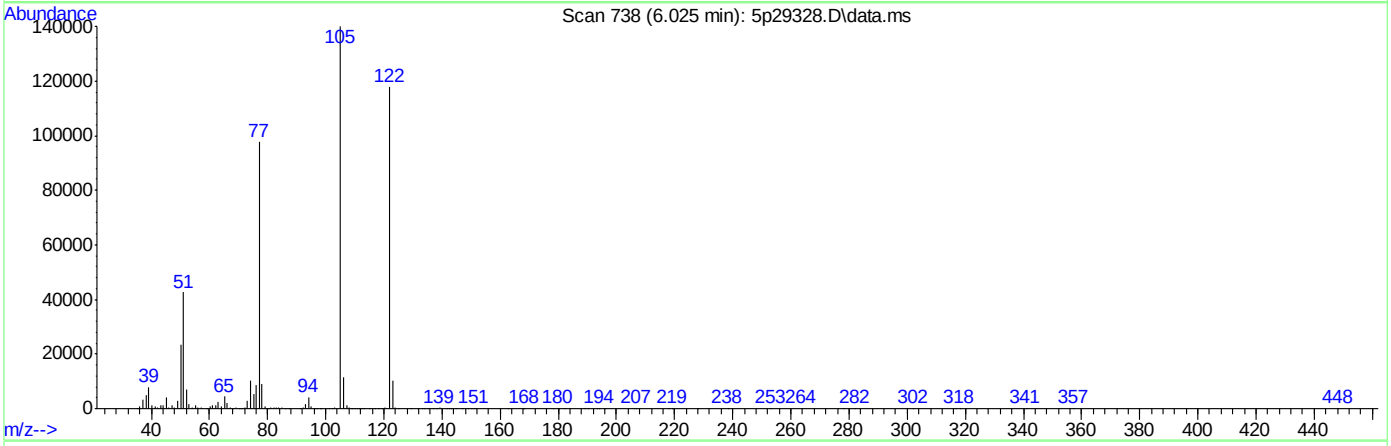
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.02	Split peak
Indeno(1,2,3-cd)pyrene	193-39-5		16.86	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:22:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration





TIC: 5p29328.D\data.ms

(31) Benzoic acid (t)

6.025min (-0.016) 63.62ppm

response 443778

Ion	Exp%	Act%
105.10	100	100
122.10	85.00	81.34
77.10	68.90	69.25
0.00	0.00	0.00

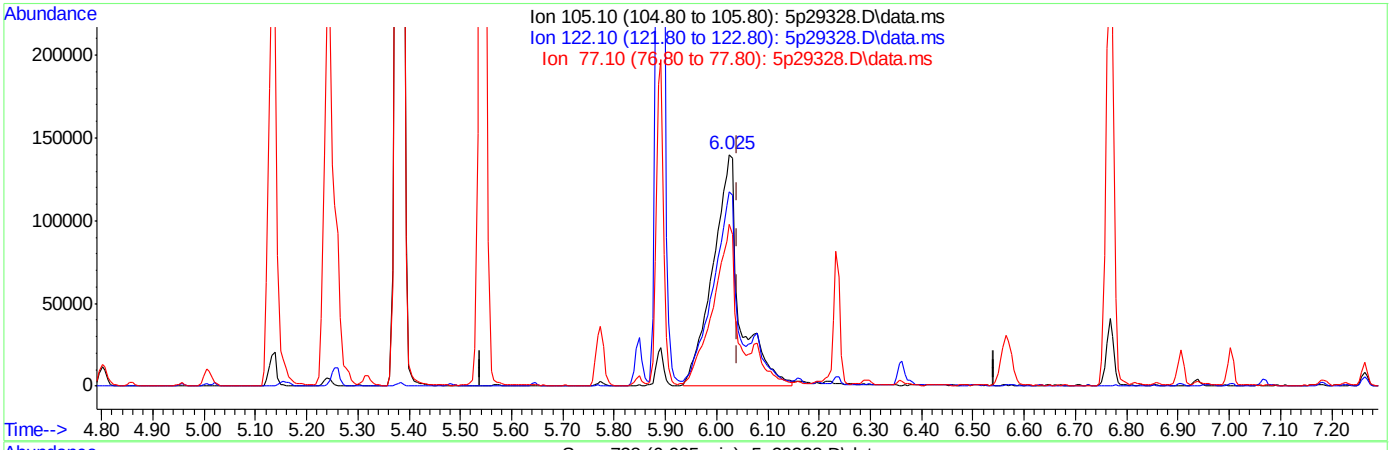
SGS ACCUTEST JC23654

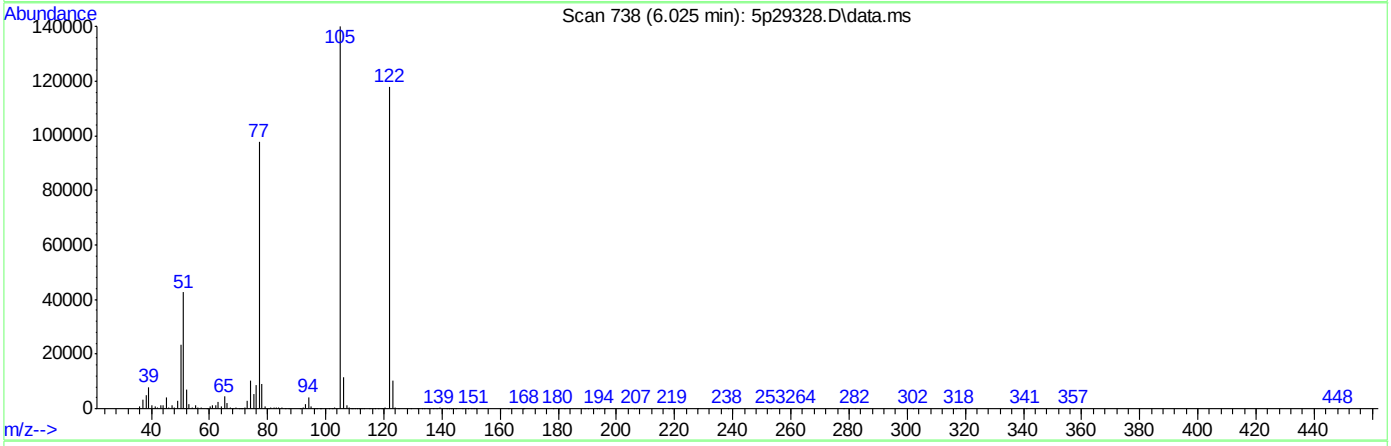
5P29328.D edits: Benzoic acid

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:22:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration





TIC: 5p29328.D\data.ms

(31) Benzoic acid (t)

6.025min (-0.016) 73.22ppm m

response 510772

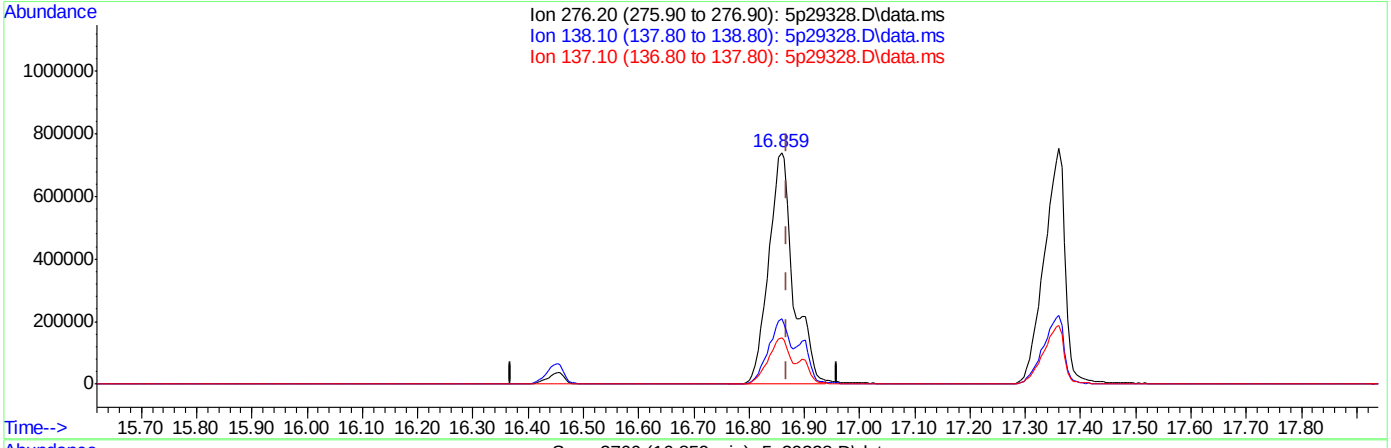
Ion	Exp%	Act%
105.10	100	100
122.10	85.00	84.07
77.10	68.90	69.70
0.00	0.00	0.00

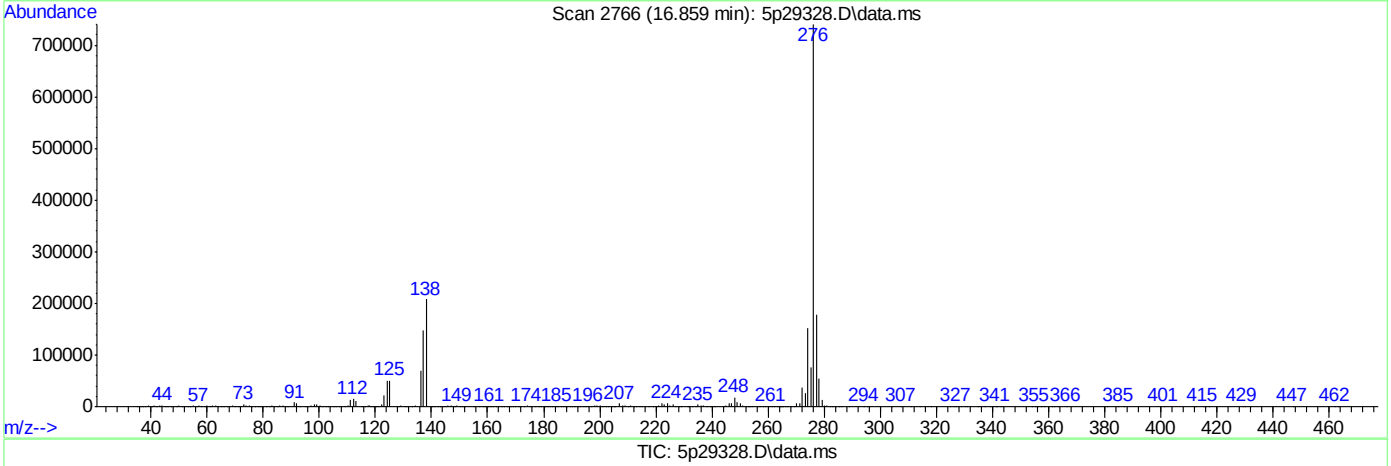
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:22:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration





TIC: 5p29328.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.859min (-0.011) 87.47ppm

response 2318139

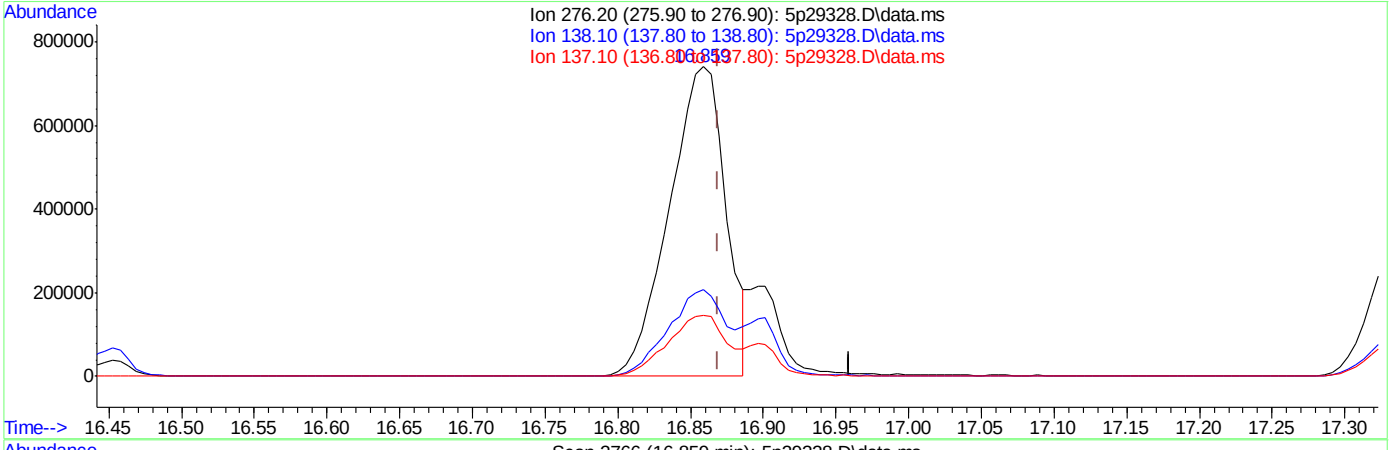
Ion	Exp%	Act%
276.20	100	100
138.10	46.90	28.02
137.10	32.70	19.77
0.00	0.00	0.00

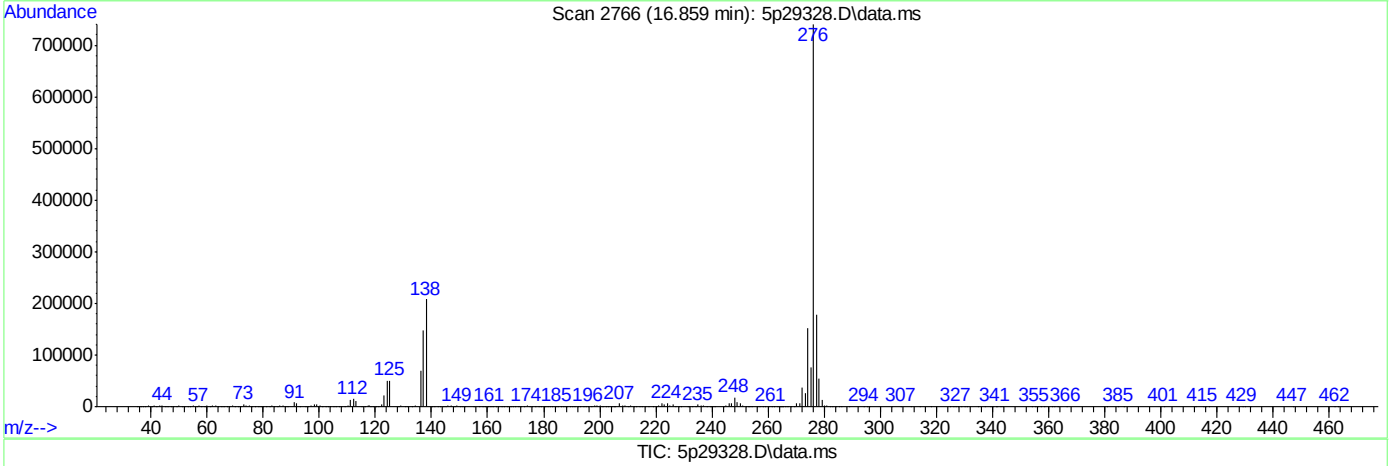
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29328.D
Acq On : 1 Jul 2016 1:04 pm
Operator : kristis
Sample : ic1496-80
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 01 13:22:38 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 12:34:01 2016
Response via : Initial Calibration





TIC: 5p29328.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.859min (-0.011) 74.61ppm m

response 1977236

Ion	Exp%	Act%
276.20	100	100
138.10	46.90	28.15
137.10	32.70	19.85
0.00	0.00	0.00

SGS ACCUTEST JC23654

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 14:08:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	349844	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1388720	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	847290	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1320776	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1117137	40.00	ppm	-0.02
91) Perylene-d12	15.139	264	1023025	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	349844	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	847290	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1117219	40.00	ppm	-0.02
108) Phenanthrene-d10a	9.481	188	1320776	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1388720	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1117219	40.00	ppm	-0.02
115) 1,4-Dichlorobenzene-d4b	5.004	152	349844	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1117219	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	10689	1.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.04%	
8) Phenol-d5	4.662	99	11544	0.87	ppm	-0.01
Spiked Amount 50.000			Recovery	=	1.74%	
25) Nitrobenzene-d5	5.517	82	10545	1.07	ppm	-0.01
Spiked Amount 50.000			Recovery	=	2.14%	
51) 2-Fluorobiphenyl	7.259	172	23816	1.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.18%	
73) 2,4,6-Tribromophenol	8.717	330	2937	1.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.08%	
85) Terphenyl-d14	11.543	244	21861	1.04	ppm	-0.01
Spiked Amount 50.000			Recovery	=	2.08%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.435	88	5648	1.17	ppm	97
3) Pyridine	2.734	79	11555	0.99	ppm	90
4) N-Nitrosodimethylamine	2.686	74	6476	0.98	ppm	89
6) Indene	5.245	116	20704	1.03	ppm	94
7) Cumene	4.288	105	28617	1.03	ppm	98
9) Phenol	4.673	94	14517	0.93	ppm	98
10) Aniline	4.700	93	17621	1.08	ppm	98
11) bis(2-Chloroethyl)ether	4.753	93	10029	0.98	ppm	97
12) 2-Chlorophenol	4.812	128	12774	1.02	ppm	96
13) Decane	4.855	43	11642	1.09	ppm	97
14) 1,3-Dichlorobenzene	4.951	146	14216	1.05	ppm	99
15) 1,4-Dichlorobenzene	5.020	146	14658	1.13	ppm	93
16) Benzyl alcohol	5.127	108	6842	0.94	ppm	98
17) 1,2-Dichlorobenzene	5.165	146	13868	1.13	ppm	95
18) Acetophenone	5.373	105	16160	1.05	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 14:08:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19) 2-Methylphenol	5.234	108	10135	0.99	ppm		97
20) 2,2'-oxybis(1-Chloropr...	5.255	45	14277	1.07	ppm		96
21) 3&4-Methylphenol	5.373	108	11220	1.03	ppm		94
22) n-Nitroso-di-n-propyla...	5.373	70	7533	1.09	ppm		95
23) Hexachloroethane	5.480	201	3840	0.94	ppm		93
26) Nitrobenzene	5.539	77	11170	1.10	ppm		90
27) Quinoline	6.548	129	24168	1.07	ppm		100
28) Isophorone	5.763	82	16246	0.87	ppm		95
29) 2-Nitrophenol	5.843	139	6292	0.97	ppm		92
30) 2,4-Dimethylphenol	5.880	107	12101	1.11	ppm		98
32) bis(2-Chloroethoxy)met...	5.966	93	12765	1.10	ppm		99
33) 2,4-Dichlorophenol	6.078	162	9470	0.99	ppm		96
34) 2,6-Dichlorophenol	6.292	162	10373	1.11	ppm		87
35) 1,3,5-Trichlorobenzene	5.854	180	11339	1.11	ppm		94
36) 1,2,4-Trichlorobenzene	6.153	180	10485	1.09	ppm		92
37) 1,2,3-Trichlorobenzene	6.372	180	10065	1.07	ppm		96
38) Naphthalene	6.228	128	34931	1.10	ppm		95
39) 4-Chloroaniline	6.281	127	13490	1.01	ppm		99
40) 2,3-Dichloroaniline	7.179	161	11491	1.03	ppm		98
41) Caprolactam	6.586	55	4623	1.02	ppm		93
42) Hexachlorobutadiene	6.356	225	5225	1.05	ppm		96
43) 4-Chloro-3-methylphenol	6.757	107	8382	0.86	ppm		93
44) 2-Methylnaphthalene	6.901	141	16571	0.91	ppm		93
45) 1-Methylnaphthalene	6.997	141	20783	1.07	ppm		100
46) Dimethylnaphthalene	7.510	156	20133	1.05	ppm		98
48) Hexachlorocyclopentadiene	7.066	237	5850	1.24	ppm		84
49) 2,4,6-Trichlorophenol	7.179	196	6347	1.05	ppm		85
50) 2,4,5-Trichlorophenol	7.227	196	6513	1.04	ppm		92
52) 2-Chloronaphthalene	7.376	162	21636	1.11	ppm		97
53) Biphenyl	7.355	154	28728	1.09	ppm		99
54) 2-Nitroaniline	7.472	65	5443	1.05	ppm		88
55) Dimethylphthalate	7.649	163	22470	1.13	ppm		100
56) Acenaphthylene	7.782	152	33887	1.12	ppm		96
57) 2,6-Dinitrotoluene	7.707	165	4292	0.94	ppm		97
58) 3-Nitroaniline	7.878	138	5546	0.94	ppm	#	66
59) Acenaphthene	7.953	153	20522	1.04	ppm		96
61) 4-Nitrophenol	8.071	109	1826	0.70	ppm	#	79
62) Dibenzofuran	8.124	168	30408	1.16	ppm		93
63) 2,4-Dinitrotoluene	8.103	165	5627	0.86	ppm		96
64) 2,3,4,6-Tetrachlorophenol	8.252	232	4275	0.87	ppm		95
65) Diethylphthalate	8.343	149	22230	1.08	ppm		100
66) Fluorene	8.466	166	23630	1.10	ppm		95
67) 4-Chlorophenyl-phenyle...	8.461	204	10264	1.10	ppm		96
68) 4-Nitroaniline	8.482	138	5924	0.99	ppm		94
70) 4,6-Dinitro-2-methylph...	8.520	198	886	0.30	ppm		65
71) n-Nitrosodiphenylamine	8.584	169	16390	1.15	ppm		98
72) 1,2-Diphenylhydrazine	8.626	77	18781	1.00	ppm		97
74) 4-Bromophenyl-phenylether	8.979	248	5707	0.97	ppm		91
75) Hexachlorobenzene	9.054	284	6798	1.11	ppm		94
76) Pentachlorophenol	9.283	266	1974	0.72	ppm		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 14:08:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
77)	Phenanthrene	9.508	178	31830	1.11 ppm	95
78)	Anthracene	9.567	178	31710	1.07 ppm	97
79)	Carbazole	9.754	167	30486	1.05 ppm	96
80)	Di-n-butylphthalate	10.192	149	35433	1.00 ppm	97
81)	Fluoranthene	11.004	202	34076	1.12 ppm	99
82)	Octadecane	9.364	57	13413	1.10 ppm	94
84)	Pyrene	11.308	202	34493	1.07 ppm	97
86)	Butylbenzylphthalate	12.275	149	15508	0.97 ppm	99
87)	Benzo[a]anthracene	13.055	228	33040	1.10 ppm	94
88)	3,3'-Dichlorobenzidine	13.039	252	12022	1.04 ppm	89
89)	Chrysene	13.108	228	32016	1.10 ppm	99
90)	bis(2-Ethylhexyl)phtha...	13.173	149	20798	0.96 ppm	99
92)	Di-n-octylphthalate	14.129	149	37140	0.99 ppm	94
93)	Benzo[b]fluoranthene	14.604	252	33664m	1.12 ppm	
94)	Benzo[k]fluoranthene	14.642	252	32133	1.12 ppm	98
95)	Benzo[a]pyrene	15.048	252	30380	1.12 ppm	91
96)	Indeno[1,2,3-cd]pyrene	16.821	276	28344	1.09 ppm	92
97)	Dibenz(a,h)acridine	16.431	279	27874	1.14 ppm	98
98)	Dibenz[a,h]anthracene	16.864	278	31463	1.17 ppm	93
99)	7,12-Dimethylbenz(a)an...	14.604	256	16003	1.18 ppm	95
100)	Benzo[g,h,i]perylene	17.313	276	31086	1.14 ppm	93

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

7.6.30

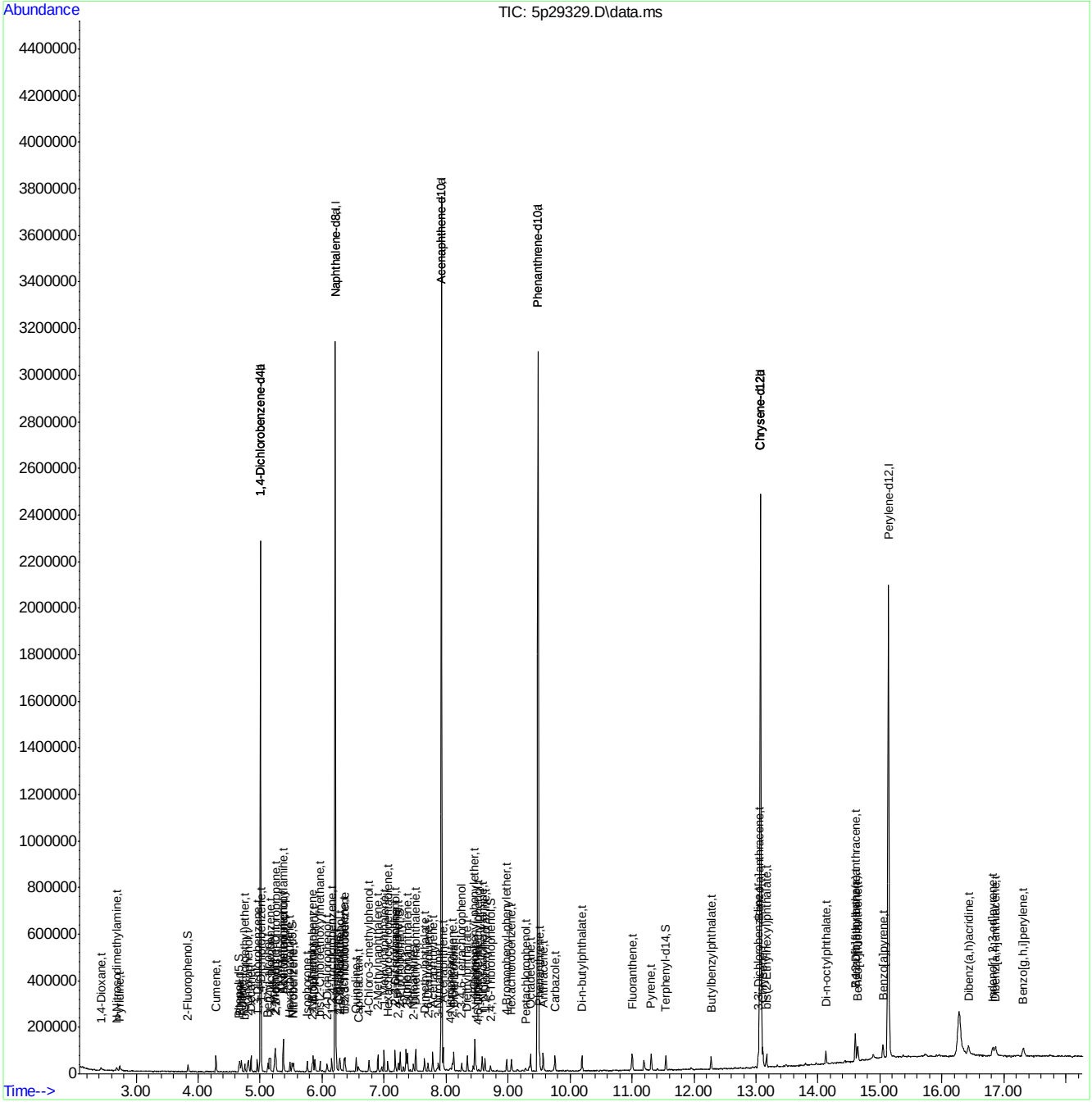
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 14:08:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Manual Integration Approval Summary

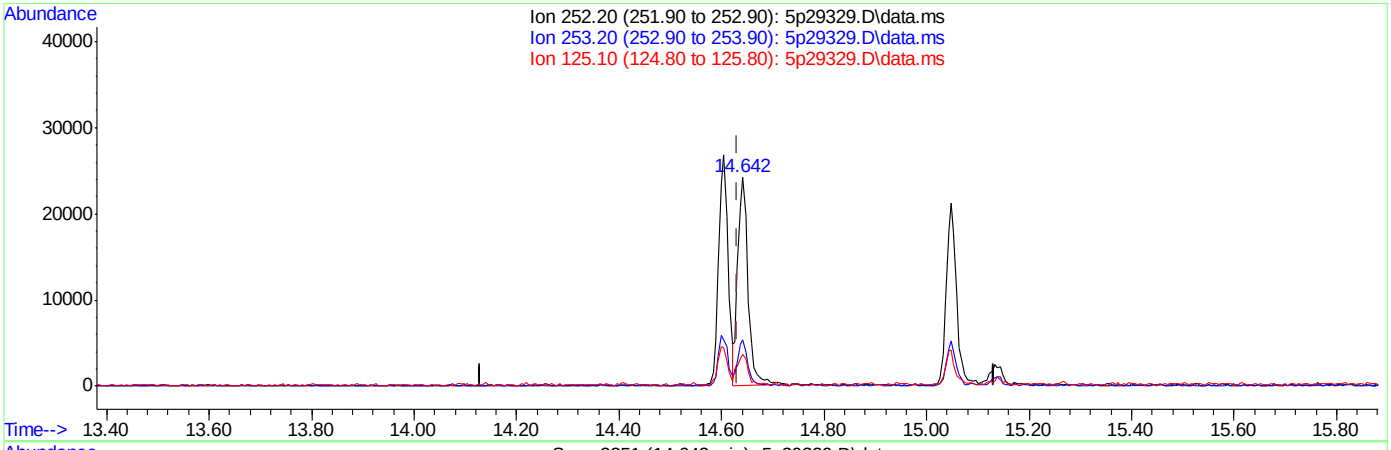
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29329.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 13:30	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

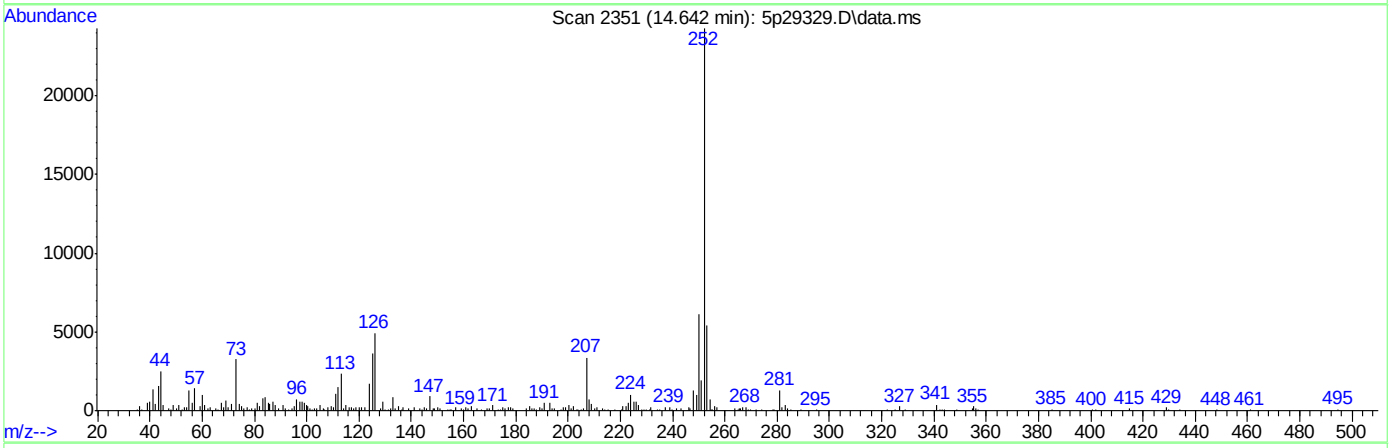
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzo(b)fluoranthene	205-99-2		14.60	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 13:48:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration





TIC: 5p29329.D\data.ms

(93) Benzo[b]fluoranthene (t)

14.642min (+0.011) 1.11ppm

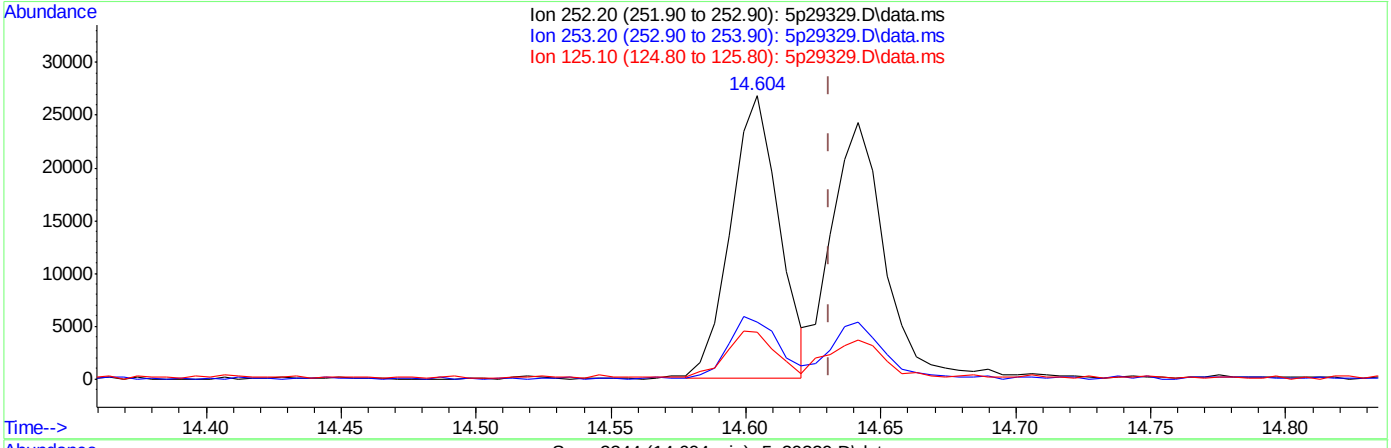
response 33371

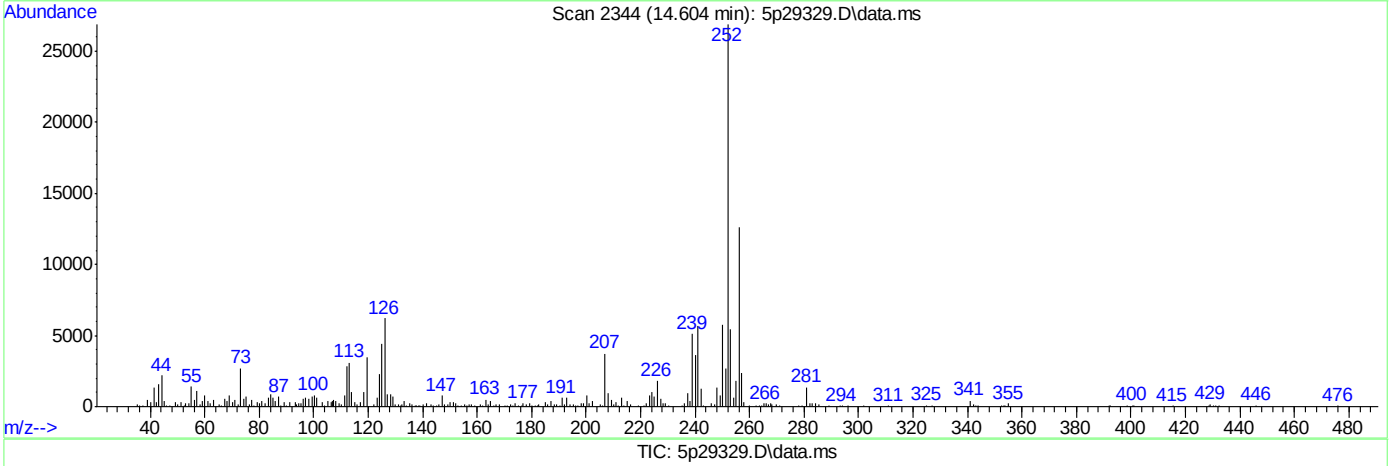
Ion	Exp%	Act%
252.20	100	100
253.20	25.80	21.85
125.10	18.00	15.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29329.D
Acq On : 1 Jul 2016 1:30 pm
Operator : kristis
Sample : ic1496-1
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 01 13:48:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 13:31:51 2016
Response via : Initial Calibration





TIC: 5p29329.D\data.ms

(93) Benzo[b]fluoranthene (t)

14.604min (-0.027) 1.12ppm m

response 33664

Ion	Exp%	Act%
252.20	100	100
253.20	25.80	20.18
125.10	18.00	16.40
0.00	0.00	0.00

SGS ACCUTEST JC23654

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	347484	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1403638	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	881887	40.00	ppm	0.00
69) Phenanthrene-d10	9.486	188	1398384	40.00	ppm	0.00
83) Chrysene-d12	13.082	240	1185318	40.00	ppm	0.01
91) Perylene-d12	15.144	264	1131920	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	347484	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	881887	40.00	ppm	0.00
105) Chrysene-d12a	13.082	240	1185294	40.00	ppm	0.01
108) Phenanthrene-d10a	9.486	188	1398384	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1403638	40.00	ppm	0.00
113) Chrysene-d12b	13.082	240	1185294	40.00	ppm	0.01
115) 1,4-Dichlorobenzene-d4b	5.004	152	347484	40.00	ppm	0.00
117) Chrysene-d12c	13.082	240	1185325	40.00	ppm	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	545370	52.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	104.04%	
8) Phenol-d5	4.668	99	656497	51.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.18%	
25) Nitrobenzene-d5	5.522	82	512918	50.50	ppm	0.00
Spiked Amount 50.000			Recovery	=	101.00%	
51) 2-Fluorobiphenyl	7.264	172	1080990	46.59	ppm	0.00
Spiked Amount 50.000			Recovery	=	93.18%	
73) 2,4,6-Tribromophenol	8.722	330	156363	51.71	ppm	0.00
Spiked Amount 50.000			Recovery	=	103.42%	
85) Terphenyl-d14	11.548	244	1099570	48.81	ppm	0.00
Spiked Amount 50.000			Recovery	=	97.62%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.424	88	200254	40.02	ppm	99
3) Pyridine	2.707	79	577284	50.01	ppm	98
4) N-Nitrosodimethylamine	2.675	74	326125	49.99	ppm	89
6) Indene	5.245	116	929507	46.28	ppm	99
7) Cumene	4.288	105	1329617	47.71	ppm	98
9) Phenol	4.678	94	776325	50.79	ppm	95
10) Aniline	4.700	93	800553	48.32	ppm	99
11) bis(2-Chloroethyl)ether	4.758	93	493984	48.95	ppm	95
12) 2-Chlorophenol	4.817	128	604290	48.37	ppm	97
13) Decane	4.855	43	495246	45.69	ppm	98
14) 1,3-Dichlorobenzene	4.956	146	650445	47.68	ppm	100
15) 1,4-Dichlorobenzene	5.020	146	640950	48.18	ppm	100
16) Benzyl alcohol	5.132	108	367441	51.62	ppm	95
17) 1,2-Dichlorobenzene	5.164	146	597801	47.55	ppm	98
18) Acetophenone	5.378	105	708843	45.96	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	2-Methylphenol	5.239	108	490114	48.27	ppm	100
20)	2,2'-oxybis(1-Chloropr...	5.255	45	618716	45.79	ppm	95
21)	3&4-Methylphenol	5.378	108	507393	46.51	ppm	98
22)	n-Nitroso-di-n-propyla...	5.384	70	317182	45.18	ppm	98
23)	Hexachloroethane	5.485	201	195509	48.97	ppm	95
26)	Nitrobenzene	5.544	77	517142	49.18	ppm	98
27)	Quinoline	6.559	129	1170164	50.36	ppm	100
28)	Isophorone	5.768	82	952917	52.06	ppm	98
29)	2-Nitrophenol	5.848	139	344634	52.88	ppm	92
30)	2,4-Dimethylphenol	5.886	107	541541	47.79	ppm	98
31)	Benzoic acid	6.014	105	361766m	47.21	ppm	
32)	bis(2-Chloroethoxy)met...	5.971	93	588016	49.00	ppm	100
33)	2,4-Dichlorophenol	6.078	162	493352	51.21	ppm	99
34)	2,6-Dichlorophenol	6.297	162	467014	48.18	ppm	99
35)	1,3,5-Trichlorobenzene	5.859	180	500179	47.13	ppm	100
36)	1,2,4-Trichlorobenzene	6.158	180	488071	49.13	ppm	99
37)	1,2,3-Trichlorobenzene	6.377	180	472914	49.00	ppm	98
38)	Naphthalene	6.233	128	1607667	48.78	ppm	100
39)	4-Chloroaniline	6.286	127	685322	50.57	ppm	99
40)	2,3-Dichloroaniline	7.178	161	556349	48.93	ppm	99
41)	Caprolactam	6.644	55	228957	49.56	ppm	95
42)	Hexachlorobutadiene	6.361	225	250022	49.14	ppm	99
43)	4-Chloro-3-methylphenol	6.762	107	486038	51.28	ppm	99
44)	2-Methylnaphthalene	6.906	141	924864	51.22	ppm	98
45)	1-Methylnaphthalene	7.002	141	970071	48.60	ppm	100
46)	Dimethylnaphthalene	7.515	156	882981	44.99	ppm	100
48)	Hexachlorocyclopentadiene	7.066	237	529680	119.39	ppm	98
49)	2,4,6-Trichlorophenol	7.184	196	307168	48.11	ppm	99
50)	2,4,5-Trichlorophenol	7.227	196	329867	49.94	ppm	98
52)	2-Chloronaphthalene	7.382	162	967119	46.26	ppm	100
53)	Biphenyl	7.360	154	1332975	47.58	ppm	99
54)	2-Nitroaniline	7.483	65	239237	43.82	ppm	91
55)	Dimethylphthalate	7.659	163	981770	45.86	ppm	99
56)	Acenaphthylene	7.788	152	1675987	51.70	ppm	100
57)	2,6-Dinitrotoluene	7.718	165	246890	52.62	ppm	96
58)	3-Nitroaniline	7.884	138	324703	53.77	ppm	94
59)	Acenaphthene	7.958	153	985681	47.44	ppm	100
60)	2,4-Dinitrophenol	7.985	184	274112	132.98	ppm	96
61)	4-Nitrophenol	8.055	109	138127	55.03	ppm	89
62)	Dibenzofuran	8.129	168	1380144	48.53	ppm	99
63)	2,4-Dinitrotoluene	8.113	165	356826	54.12	ppm	93
64)	2,3,4,6-Tetrachlorophenol	8.252	232	281813	57.01	ppm	99
65)	Diethylphthalate	8.354	149	1096009	50.11	ppm	99
66)	Fluorene	8.471	166	1071256	46.68	ppm	98
67)	4-Chlorophenyl-phenyle...	8.466	204	463699	46.72	ppm	97
68)	4-Nitroaniline	8.498	138	318846	51.51	ppm	92
70)	4,6-Dinitro-2-methylph...	8.525	198	201119	78.03	ppm	99
71)	n-Nitrosodiphenylamine	8.589	169	759223	48.36	ppm	99
72)	1,2-Diphenylhydrazine	8.632	77	982329	49.23	ppm	99
74)	4-Bromophenyl-phenylether	8.984	248	309048	49.88	ppm	93

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	Hexachlorobenzene	9.064	284	329633	49.35	ppm	94
76)	Pentachlorophenol	9.278	266	365843	149.57	ppm	99
77)	Phenanthrene	9.513	178	1513039	48.41	ppm	99
78)	Anthracene	9.572	178	1565389	49.09	ppm	99
79)	Carbazole	9.764	167	1551025	49.78	ppm	99
80)	Di-n-butylphthalate	10.197	149	1907864	50.91	ppm	99
81)	Fluoranthene	11.009	202	1638711	49.36	ppm	97
82)	Octadecane	9.363	57	652096	49.16	ppm	99
84)	Pyrene	11.319	202	1691601	48.67	ppm	99
86)	Butylbenzylphthalate	12.280	149	846766	50.24	ppm	98
87)	Benzo[a]anthracene	13.066	228	1517259	46.49	ppm	99
88)	3,3'-Dichlorobenzidine	13.050	252	605163	48.97	ppm	98
89)	Chrysene	13.124	228	1507851	47.65	ppm	100
90)	bis(2-Ethylhexyl)phtha...	13.178	149	1140825	50.05	ppm	97
92)	Di-n-octylphthalate	14.134	149	2041742	49.44	ppm	98
93)	Benzo[b]fluoranthene	14.620	252	1581700	46.23	ppm	98
94)	Benzo[k]fluoranthene	14.663	252	1493852	45.83	ppm	99
95)	Benzo[a]pyrene	15.064	252	1472227	47.76	ppm	99
96)	Indeno[1,2,3-cd]pyrene	16.853	276	1480779	50.45	ppm	91
97)	Dibenz(a,h)acridine	16.447	279	1344319	48.07	ppm	100
98)	Dibenz[a,h]anthracene	16.891	278	1478614	47.69	ppm	97
99)	7,12-Dimethylbenz(a)an...	14.620	256	725912	46.19	ppm	98
100)	Benzo[g,h,i]perylene	17.350	276	1481921	47.49	ppm	98

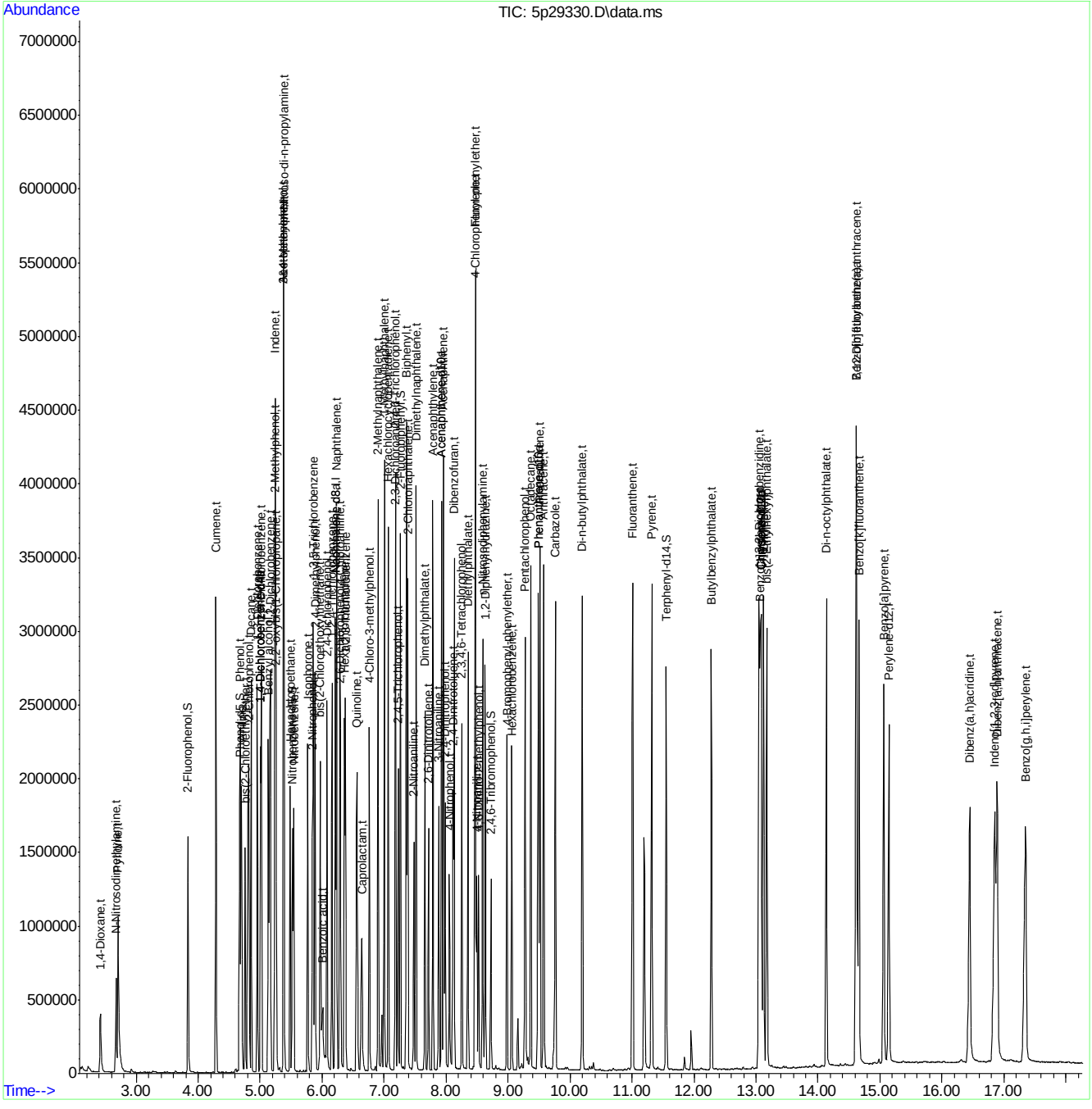
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration



Manual Integration Approval Summary

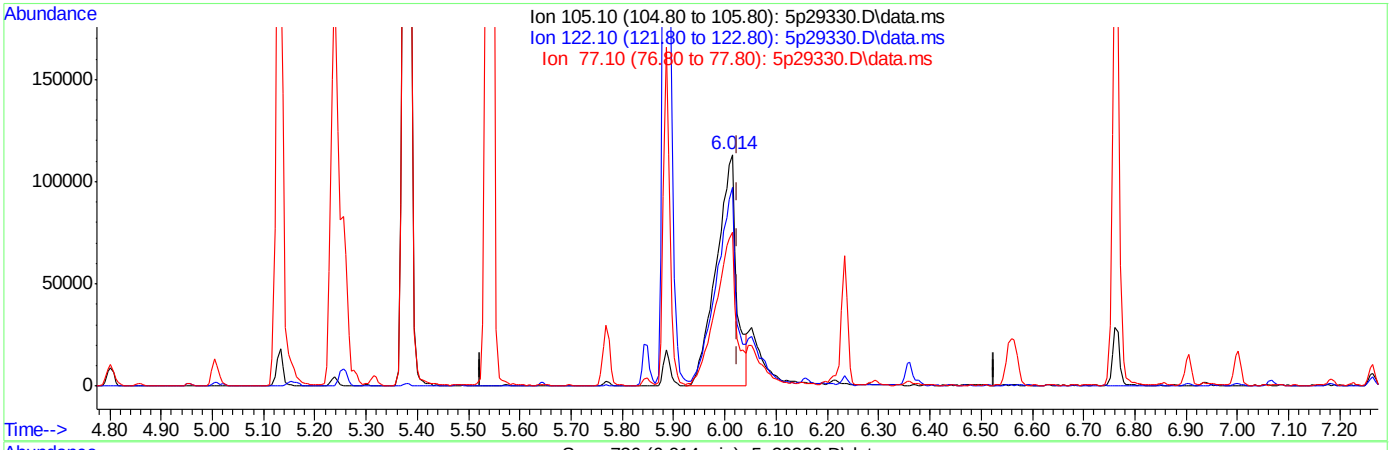
Sample Number:	E5P1496-ICC1496	**Method:**	SW846 8270D
Lab FileID:	5P29330.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 13:55	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

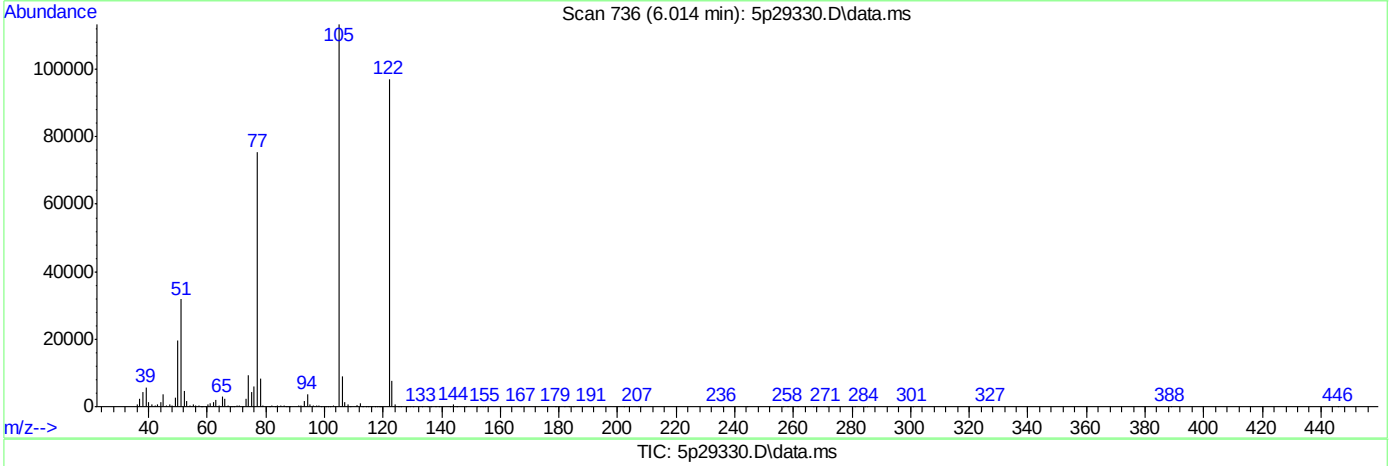
Parameter	CAS	Sig#	R.T. (min.)	Reason
Benzoic acid	65-85-0		6.01	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:14:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration





TIC: 5p29330.D\data.ms

(31) Benzoic acid (t)

6.014min (-0.011) 40.28ppm

response 308694

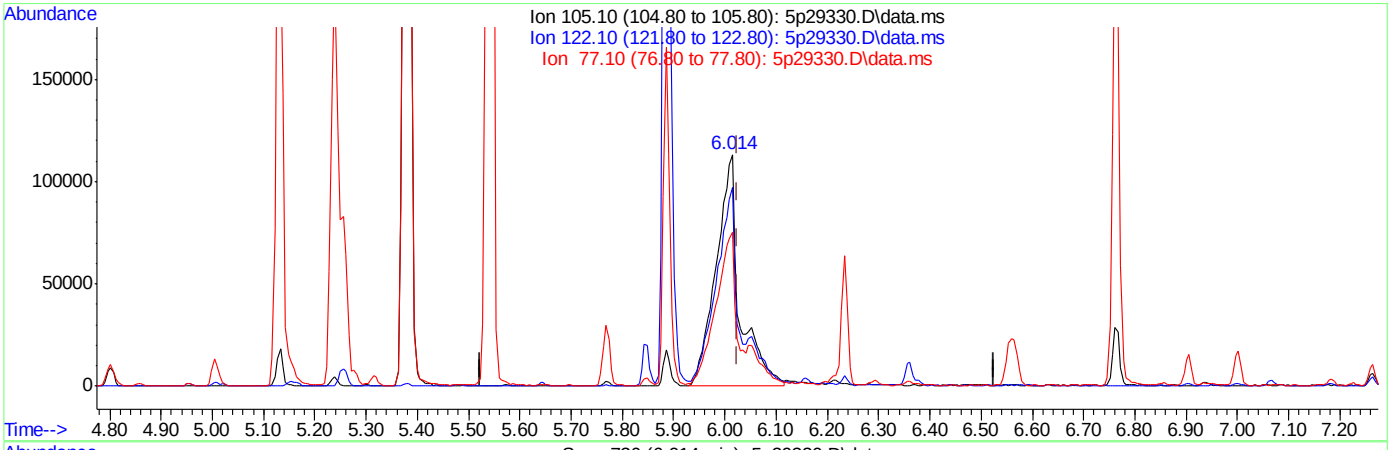
Ion	Exp%	Act%
105.10	100	100
122.10	81.50	84.96
77.10	68.30	66.77
0.00	0.00	0.00

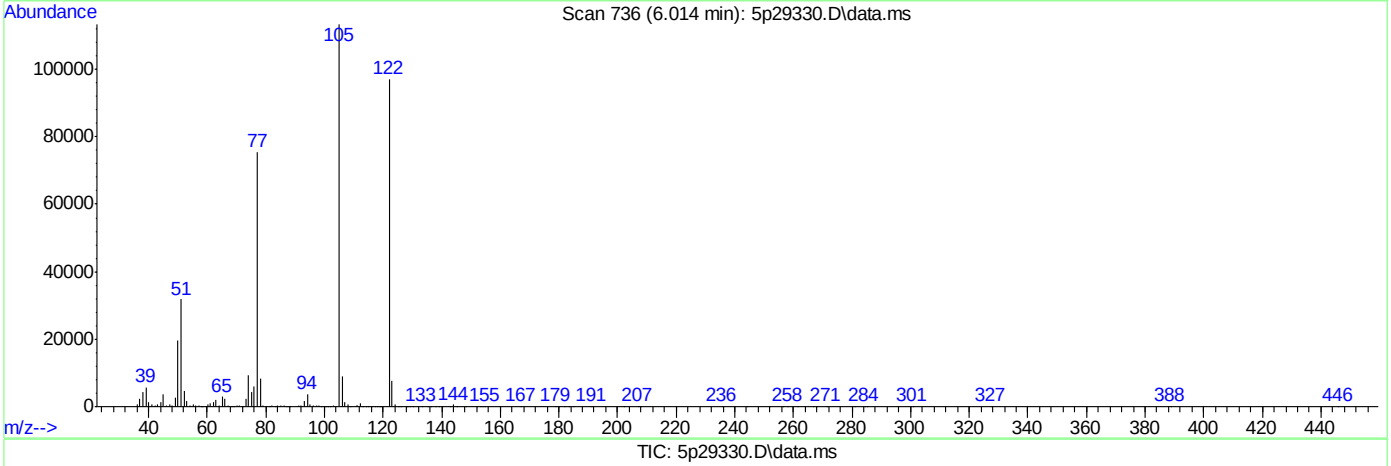
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29330.D
Acq On : 1 Jul 2016 1:55 pm
Operator : kristis
Sample : icc1496-50
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 01 14:14:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:09:04 2016
Response via : Initial Calibration





TIC: 5p29330.D\data.ms

(31) Benzoic acid (t)

6.014min (-0.011) 47.21ppm m

response 361766

Ion	Exp%	Act%
105.10	100	100
122.10	81.50	85.68
77.10	68.30	66.61
0.00	0.00	0.00

SGS ACCUTEST JC23654

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:11:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	355857	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1420289	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	871864	40.00	ppm	0.00
69) Phenanthrene-d10	9.486	188	1383424	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	1151472	40.00	ppm	0.00
91) Perylene-d12	15.138	264	1070222	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	355857	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	871864	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	1151472	40.00	ppm	0.00
108) Phenanthrene-d10a	9.486	188	1383424	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1420289	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	1151472	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	355857	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	1151472	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	53360	4.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.86%	
8) Phenol-d5	4.662	99	65377	4.98	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.96%	
25) Nitrobenzene-d5	5.517	82	51771	5.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.06%	
51) 2-Fluorobiphenyl	7.259	172	116968	5.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.34%	
73) 2,4,6-Tribromophenol	8.717	330	12319	4.09	ppm	0.00
Spiked Amount 50.000			Recovery	=	8.18%	
85) Terphenyl-d14	11.548	244	113237	5.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.40%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.429	88	24584	5.00	ppm	91
3) Pyridine	2.718	79	56172	4.75	ppm	99
4) N-Nitrosodimethylamine	2.680	74	31246	4.68	ppm	99
6) Indene	5.245	116	104063	5.14	ppm	98
7) Cumene	4.288	105	143555	5.08	ppm	98
9) Phenol	4.673	94	79812	5.08	ppm	99
10) Aniline	4.700	93	89003	5.28	ppm	82
11) bis(2-Chloroethyl)ether	4.753	93	51251	4.98	ppm	96
12) 2-Chlorophenol	4.812	128	63499	5.00	ppm	98
13) Decane	4.855	43	56358	5.17	ppm	98
14) 1,3-Dichlorobenzene	4.956	146	70631	5.10	ppm	99
15) 1,4-Dichlorobenzene	5.020	146	69577	5.14	ppm	98
16) Benzyl alcohol	5.127	108	36915	5.03	ppm	97
17) 1,2-Dichlorobenzene	5.165	146	66598	5.22	ppm	98
18) Acetophenone	5.373	105	79039	5.09	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:11:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19) 2-Methylphenol	5.234	108	52556	5.09	ppm		97
20) 2,2'-oxybis(1-Chloropr...	5.255	45	69938	5.14	ppm		97
21) 3&4-Methylphenol	5.373	108	55476	5.04	ppm		99
22) n-Nitroso-di-n-propyla...	5.373	70	34278	4.86	ppm		96
23) Hexachloroethane	5.485	201	21112	5.18	ppm		96
26) Nitrobenzene	5.538	77	53954	5.09	ppm		99
27) Quinoline	6.548	129	117459	4.99	ppm		100
28) Isophorone	5.763	82	97731	5.23	ppm		98
29) 2-Nitrophenol	5.843	139	32394	4.86	ppm		97
30) 2,4-Dimethylphenol	5.880	107	56778	5.00	ppm		96
31) Benzoic acid	5.955	105	13336	1.75	ppm		83
32) bis(2-Chloroethoxy)met...	5.966	93	62219	5.14	ppm		96
33) 2,4-Dichlorophenol	6.078	162	49936	5.10	ppm		98
34) 2,6-Dichlorophenol	6.292	162	49353	5.07	ppm		99
35) 1,3,5-Trichlorobenzene	5.854	180	54815	5.16	ppm		98
36) 1,2,4-Trichlorobenzene	6.158	180	51489	5.14	ppm		96
37) 1,2,3-Trichlorobenzene	6.372	180	51173	5.26	ppm		98
38) Naphthalene	6.233	128	171977	5.18	ppm		99
39) 4-Chloroaniline	6.281	127	70616	5.14	ppm		99
40) 2,3-Dichloroaniline	7.179	161	60300	5.26	ppm		99
41) Caprolactam	6.591	55	22219	4.76	ppm		95
42) Hexachlorobutadiene	6.356	225	25968	5.06	ppm		99
43) 4-Chloro-3-methylphenol	6.757	107	49264	5.11	ppm		97
44) 2-Methylnaphthalene	6.901	141	98728	5.38	ppm		99
45) 1-Methylnaphthalene	6.997	141	103077	5.13	ppm		100
46) Dimethylnaphthalene	7.515	156	103623	5.32	ppm		99
48) Hexachlorocyclopentadiene	7.066	237	42896	9.41	ppm		94
49) 2,4,6-Trichlorophenol	7.179	196	32509	5.19	ppm		98
50) 2,4,5-Trichlorophenol	7.221	196	32695	5.01	ppm		99
52) 2-Chloronaphthalene	7.376	162	105755	5.19	ppm		98
53) Biphenyl	7.355	154	142867	5.21	ppm		100
54) 2-Nitroaniline	7.472	65	26158	4.97	ppm		91
55) Dimethylphthalate	7.654	163	115889	5.57	ppm		99
56) Acenaphthylene	7.782	152	175006	5.42	ppm		99
57) 2,6-Dinitrotoluene	7.707	165	24332	5.19	ppm		94
58) 3-Nitroaniline	7.878	138	29700	4.90	ppm		91
59) Acenaphthene	7.958	153	106129	5.22	ppm		96
60) 2,4-Dinitrophenol	7.980	184	7914	3.59	ppm	#	54
61) 4-Nitrophenol	8.055	109	11654	4.60	ppm		89
62) Dibenzofuran	8.124	168	149267	5.34	ppm		98
63) 2,4-Dinitrotoluene	8.103	165	34025	5.14	ppm		98
64) 2,3,4,6-Tetrachlorophenol	8.252	232	22177	4.41	ppm		96
65) Diethylphthalate	8.348	149	102602	4.74	ppm		95
66) Fluorene	8.466	166	107215	4.79	ppm		99
67) 4-Chlorophenyl-phenyle...	8.466	204	45489	4.70	ppm		97
68) 4-Nitroaniline	8.482	138	27311	4.44	ppm		99
70) 4,6-Dinitro-2-methylph...	8.514	198	8444	2.98	ppm		87
71) n-Nitrosodiphenylamine	8.584	169	69922	4.53	ppm		99
72) 1,2-Diphenylhydrazine	8.626	77	91641	4.66	ppm		98
74) 4-Bromophenyl-phenylether	8.979	248	30633	5.00	ppm		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:11:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
75)	Hexachlorobenzene	9.054	284	32604	4.95	ppm	84
76)	Pentachlorophenol	9.273	266	18207	6.85	ppm	96
77)	Phenanthrene	9.508	178	161764	5.26	ppm	98
78)	Anthracene	9.567	178	170187	5.41	ppm	99
79)	Carbazole	9.759	167	159396	5.18	ppm	99
80)	Di-n-butylphthalate	10.197	149	194199	5.22	ppm	98
81)	Fluoranthene	11.004	202	170083	5.19	ppm	99
82)	Octadecane	9.364	57	69287	5.30	ppm	99
84)	Pyrene	11.313	202	175649	5.23	ppm	98
86)	Butylbenzylphthalate	12.275	149	82515	5.03	ppm	96
87)	Benzo[a]anthracene	13.060	228	161354	5.16	ppm	99
88)	3,3'-Dichlorobenzidine	13.039	252	58251	4.87	ppm	96
89)	Chrysene	13.108	228	154813	5.08	ppm	100
90)	bis(2-Ethylhexyl)phtha...	13.173	149	111644	5.04	ppm	99
92)	Di-n-octylphthalate	14.129	149	193865	4.98	ppm	99
93)	Benzo[b]fluoranthene	14.604	252	162359	5.10	ppm	97
94)	Benzo[k]fluoranthene	14.642	252	155179	5.12	ppm	98
95)	Benzo[a]pyrene	15.053	252	142575	4.94	ppm	100
96)	Indeno[1,2,3-cd]pyrene	16.827	276	132797m	4.78	ppm	
97)	Dibenz(a,h)acridine	16.431	279	123415	4.70	ppm	97
98)	Dibenz[a,h]anthracene	16.869	278	138855	4.78	ppm	95
99)	7,12-Dimethylbenz(a)an...	14.604	256	74738	5.11	ppm	97
100)	Benzo[g,h,i]perylene	17.318	276	141014	4.83	ppm	99

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

7.6.32

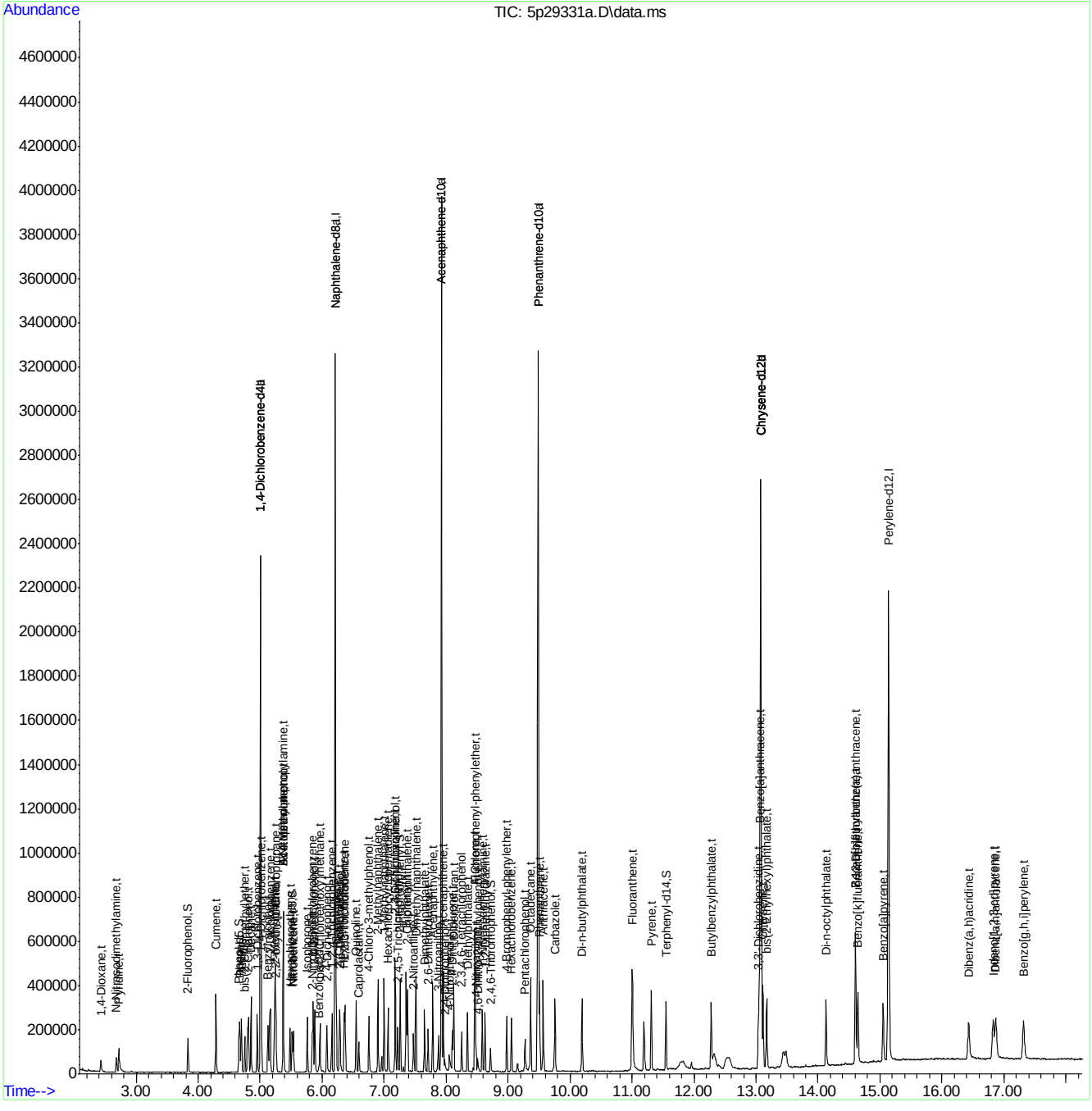
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:11:10 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Manual Integration Approval Summary

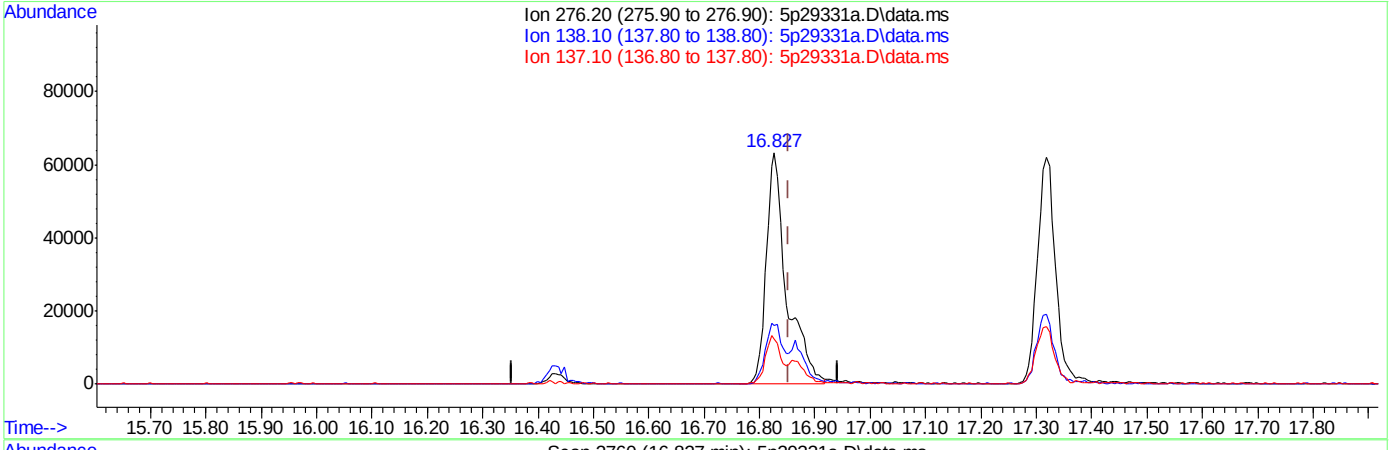
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29331A.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 14:46	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

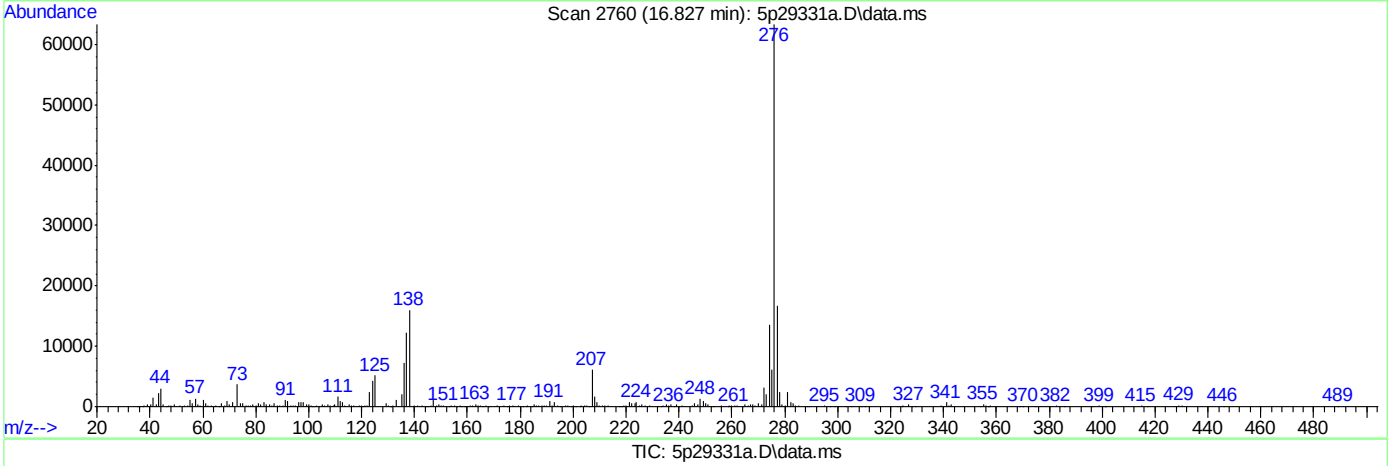
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		16.83	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:09:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration





TIC: 5p29331a.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.827min (-0.027) 5.83ppm

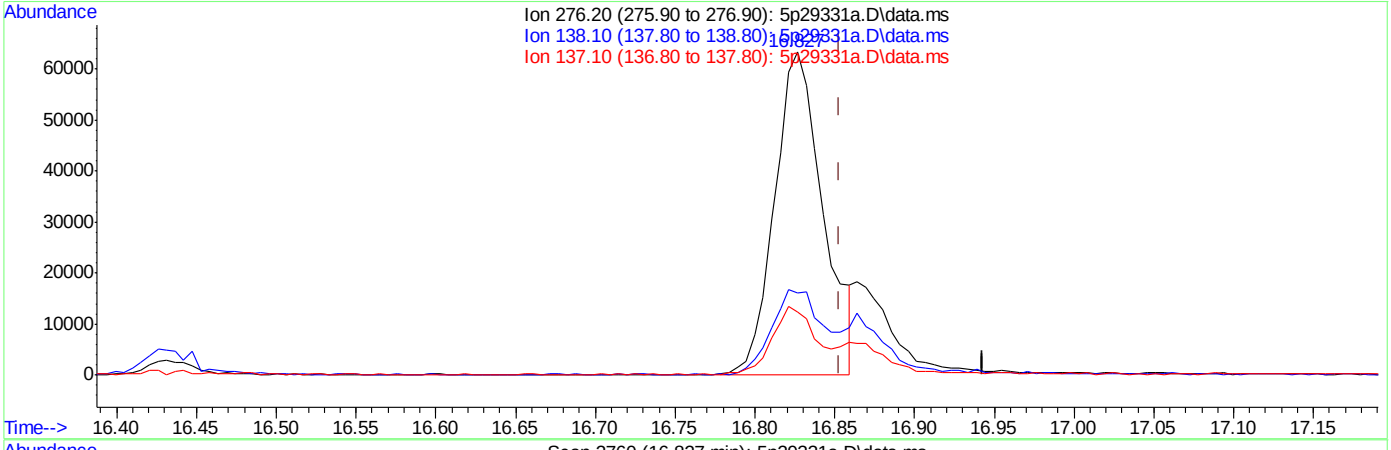
response 161977

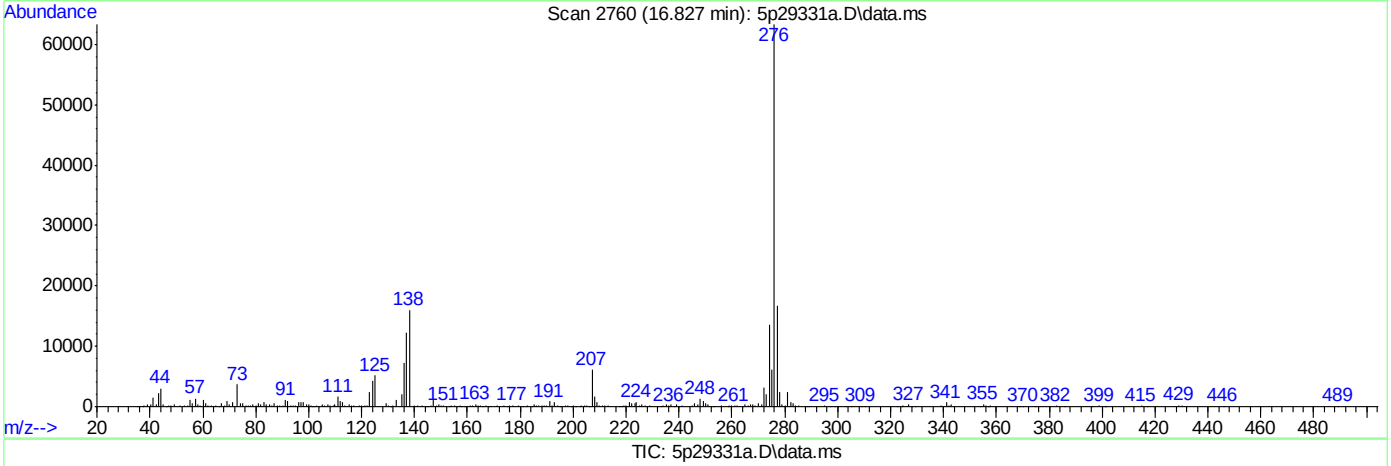
Ion	Exp%	Act%
276.20	100	100
138.10	21.30	24.92
137.10	16.30	19.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29331a.D
Acq On : 1 Jul 2016 2:46 pm
Operator : kristis
Sample : ic1496-5
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 01 15:09:36 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 14:36:29 2016
Response via : Initial Calibration





TIC: 5p29331a.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.827min (-0.027) 4.78ppm m

response 132797

Ion	Exp%	Act%
276.20	100	100
138.10	21.30	25.35
137.10	16.30	19.35
0.00	0.00	0.00

SGS ACCUTEST JC23654

5P29332.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:38:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	341789	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1369504	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	742473	40.00	ppm	0.00
69) Phenanthrene-d10	9.486	188	1359217	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	1142004	40.00	ppm	0.00
91) Perylene-d12	15.144	264	1082445	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	341789	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	742473	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	1141979	40.00	ppm	0.00
108) Phenanthrene-d10a	9.486	188	1359217	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1369504	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	1141979	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	341789	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	1141979	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	267896	25.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.66%	
8) Phenol-d5	4.662	99	321650	25.55	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.10%	
25) Nitrobenzene-d5	5.523	82	255502	25.71	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.42%	
51) 2-Fluorobiphenyl	7.259	172	547132	28.24	ppm	0.00
Spiked Amount 50.000			Recovery	=	56.48%	
73) 2,4,6-Tribromophenol	8.717	330	75871	26.44	ppm	0.00
Spiked Amount 50.000			Recovery	=	52.88%	
85) Terphenyl-d14	11.549	244	543337	24.99	ppm	0.00
Spiked Amount 50.000			Recovery	=	49.98%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.424	88	112315	23.77	ppm	97
3) Pyridine	2.707	79	266719	23.69	ppm	97
4) N-Nitrosodimethylamine	2.675	74	149657	23.58	ppm	100
6) Indene	5.245	116	482365	24.67	ppm	98
7) Cumene	4.288	105	669970	24.60	ppm	98
9) Phenol	4.673	94	383754	25.38	ppm	100
10) Aniline	4.700	93	407568	24.95	ppm	74
11) bis(2-Chloroethyl)ether	4.753	93	242459	24.54	ppm	98
12) 2-Chlorophenol	4.812	128	300784	24.64	ppm	97
13) Decane	4.855	43	251986	23.92	ppm	98
14) 1,3-Dichlorobenzene	4.956	146	329399	24.69	ppm	99
15) 1,4-Dichlorobenzene	5.020	146	323751	24.80	ppm	99
16) Benzyl alcohol	5.127	108	180548	25.59	ppm	99
17) 1,2-Dichlorobenzene	5.165	146	300436	24.35	ppm	99
18) Acetophenone	5.378	105	359600	24.02	ppm	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:38:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
19) 2-Methylphenol	5.234	108	248832	25.01	ppm		99
20) 2,2'-oxybis(1-Chloropr...	5.255	45	320792	24.44	ppm		99
21) 3&4-Methylphenol	5.373	108	258456	24.40	ppm		99
22) n-Nitroso-di-n-propyla...	5.378	70	160802	23.86	ppm		99
23) Hexachloroethane	5.485	201	98230	24.96	ppm		98
26) Nitrobenzene	5.539	77	258947	25.25	ppm		98
27) Quinoline	6.554	129	570456	25.14	ppm		99
28) Isophorone	5.763	82	463439	25.54	ppm		99
29) 2-Nitrophenol	5.843	139	166913	26.08	ppm		93
30) 2,4-Dimethylphenol	5.880	107	272431	24.86	ppm		98
31) Benzoic acid	5.982	105	136521	22.21	ppm		97
32) bis(2-Chloroethoxy)met...	5.966	93	289693	24.72	ppm		99
33) 2,4-Dichlorophenol	6.073	162	241750	25.51	ppm		99
34) 2,6-Dichlorophenol	6.292	162	233474	24.81	ppm		97
35) 1,3,5-Trichlorobenzene	5.859	180	257297	25.00	ppm		98
36) 1,2,4-Trichlorobenzene	6.158	180	241876	24.92	ppm		99
37) 1,2,3-Trichlorobenzene	6.372	180	240426	25.41	ppm		99
38) Naphthalene	6.233	128	808709	25.12	ppm		99
39) 4-Chloroaniline	6.281	127	343285	25.78	ppm		98
40) 2,3-Dichloroaniline	7.179	161	278543	25.00	ppm		99
41) Caprolactam	6.618	55	108913	24.40	ppm		98
42) Hexachlorobutadiene	6.356	225	124664	25.15	ppm		98
43) 4-Chloro-3-methylphenol	6.757	107	239128	25.63	ppm		99
44) 2-Methylnaphthalene	6.901	141	461850	25.76	ppm		97
45) 1-Methylnaphthalene	7.002	141	485007	24.93	ppm		99
46) Dimethylnaphthalene	7.515	156	493805	26.03	ppm		99
48) Hexachlorocyclopentadiene	7.066	237	243344	63.34	ppm		98
49) 2,4,6-Trichlorophenol	7.184	196	154481	28.78	ppm		98
50) 2,4,5-Trichlorophenol	7.221	196	161125	28.97	ppm		96
52) 2-Chloronaphthalene	7.376	162	491693	28.18	ppm		97
53) Biphenyl	7.360	154	674149	28.66	ppm		100
54) 2-Nitroaniline	7.478	65	129675	28.96	ppm		99
55) Dimethylphthalate	7.654	163	550027	30.46	ppm		99
56) Acenaphthylene	7.788	152	793632	28.48	ppm		99
57) 2,6-Dinitrotoluene	7.713	165	123592	30.77	ppm		98
58) 3-Nitroaniline	7.878	138	137870	26.80	ppm		96
59) Acenaphthene	7.959	153	444394	25.48	ppm		98
60) 2,4-Dinitrophenol	7.980	184	90011	54.96	ppm	#	58
61) 4-Nitrophenol	8.049	109	59743	28.08	ppm		89
62) Dibenzofuran	8.124	168	585520	24.32	ppm		98
63) 2,4-Dinitrotoluene	8.108	165	148324	26.17	ppm		99
64) 2,3,4,6-Tetrachlorophenol	8.252	232	120548	28.74	ppm		98
65) Diethylphthalate	8.349	149	507016	27.76	ppm		98
66) Fluorene	8.466	166	517152	27.32	ppm		100
67) 4-Chlorophenyl-phenyle...	8.466	204	219893	26.94	ppm		97
68) 4-Nitroaniline	8.487	138	141224	27.45	ppm		97
70) 4,6-Dinitro-2-methylph...	8.520	198	79214	30.49	ppm		96
71) n-Nitrosodiphenylamine	8.584	169	350995	23.52	ppm		98
72) 1,2-Diphenylhydrazine	8.626	77	481011	25.17	ppm		97
74) 4-Bromophenyl-phenylether	8.979	248	148680	24.70	ppm		96

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:38:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75)	Hexachlorobenzene	9.059	284	158777	24.56 ppm	98
76)	Pentachlorophenol	9.273	266	156110	63.06 ppm	99
77)	Phenanthrene	9.513	178	754447	24.77 ppm	99
78)	Anthracene	9.572	178	781950	24.97 ppm	100
79)	Carbazole	9.759	167	770500	25.32 ppm	99
80)	Di-n-butylphthalate	10.197	149	939825	25.52 ppm	100
81)	Fluoranthene	11.009	202	810792	25.03 ppm	98
82)	Octadecane	9.364	57	326070	25.13 ppm	98
84)	Pyrene	11.314	202	837226	24.95 ppm	99
86)	Butylbenzylphthalate	12.275	149	417971	25.68 ppm	99
87)	Benzo[a]anthracene	13.060	228	755243	24.23 ppm	99
88)	3,3'-Dichlorobenzidine	13.044	252	297800	25.22 ppm	98
89)	Chrysene	13.114	228	742567	24.52 ppm	100
90)	bis(2-Ethylhexyl)phtha...	13.173	149	561681	25.54 ppm	98
92)	Di-n-octylphthalate	14.129	149	993839	25.24 ppm	100
93)	Benzo[b]fluoranthene	14.610	252	759433	23.49 ppm	99
94)	Benzo[k]fluoranthene	14.652	252	743647	24.17 ppm	97
95)	Benzo[a]pyrene	15.053	252	706918	24.25 ppm	97
96)	Indeno[1,2,3-cd]pyrene	16.837	276	682486m	24.45 ppm	
97)	Dibenz(a,h)acridine	16.437	279	638216	24.29 ppm	100
98)	Dibenz[a,h]anthracene	16.875	278	710813	24.38 ppm	98
99)	7,12-Dimethylbenz(a)an...	14.610	256	353034	23.77 ppm	99
100)	Benzo[g,h,i]perylene	17.329	276	711341	24.22 ppm	99

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

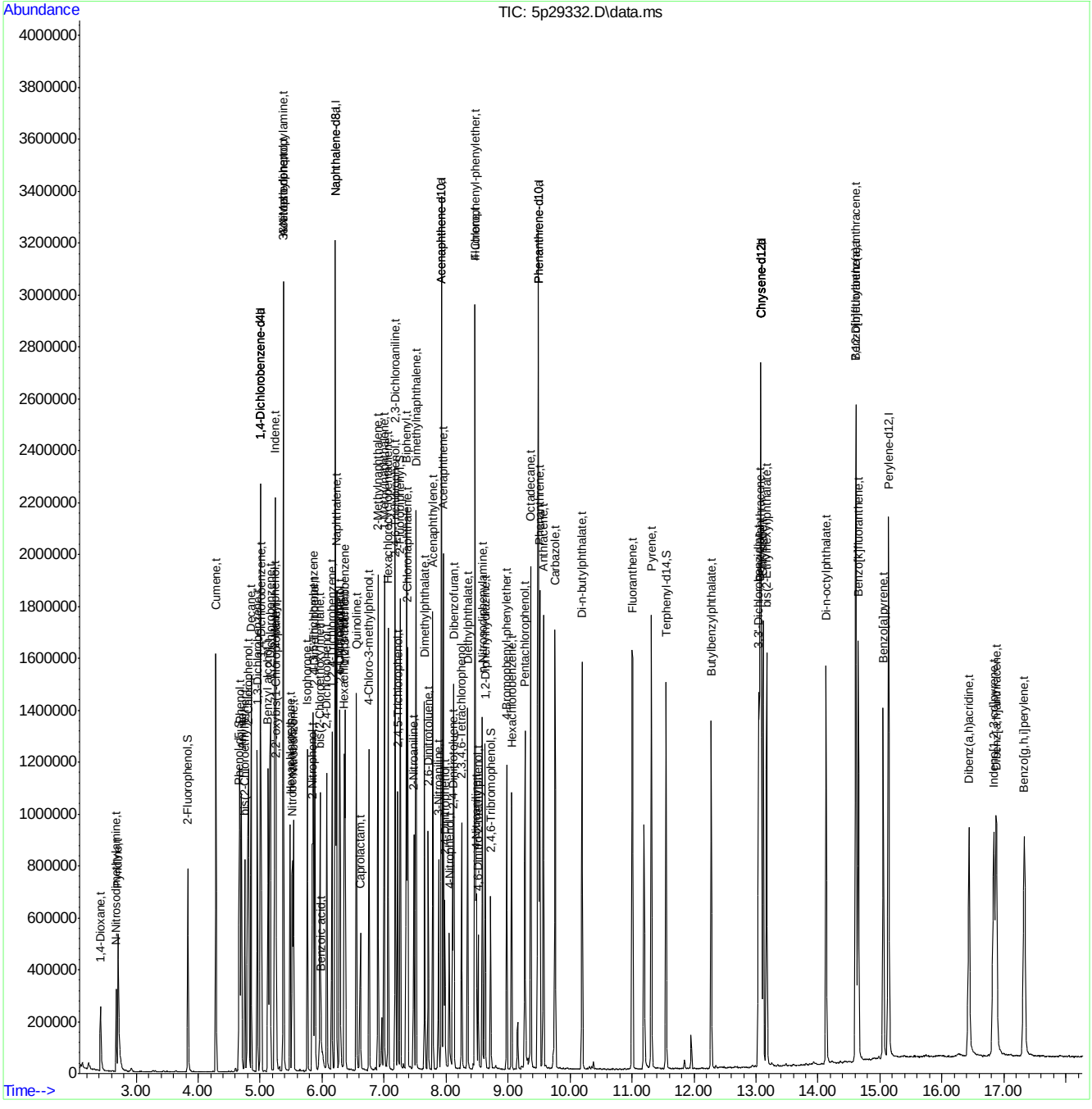
7.6.33

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:38:03 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Manual Integration Approval Summary

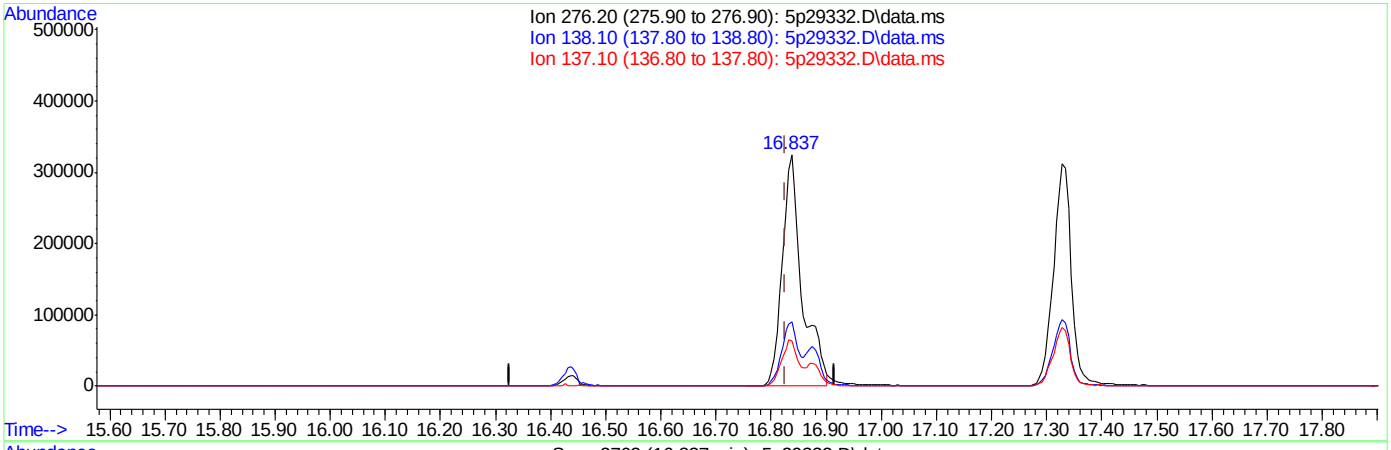
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29332.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 15:12	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

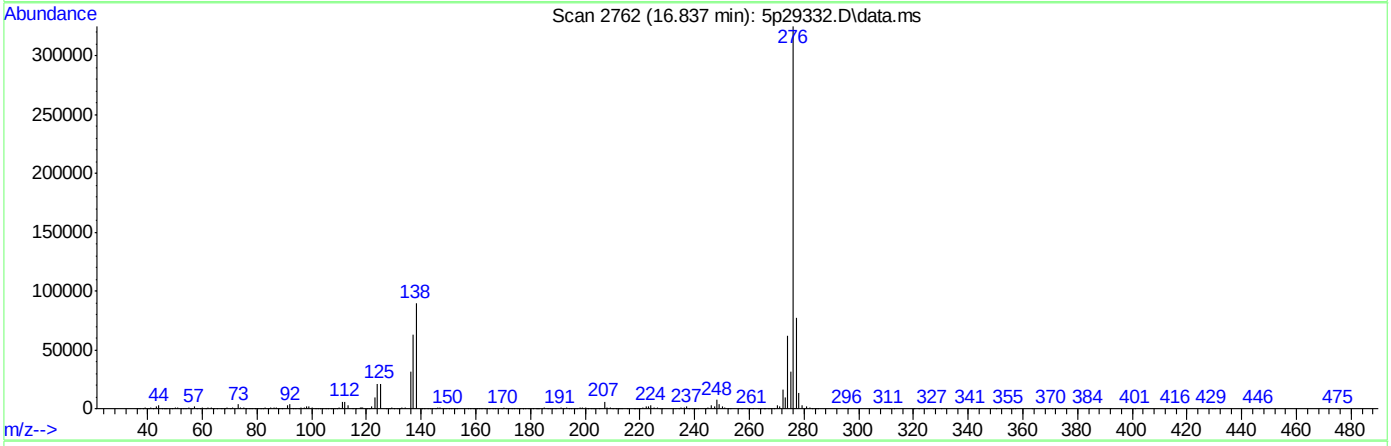
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		16.84	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:31:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration





TIC: 5p29332.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.837min (+0.011) 29.14ppm

response 813420

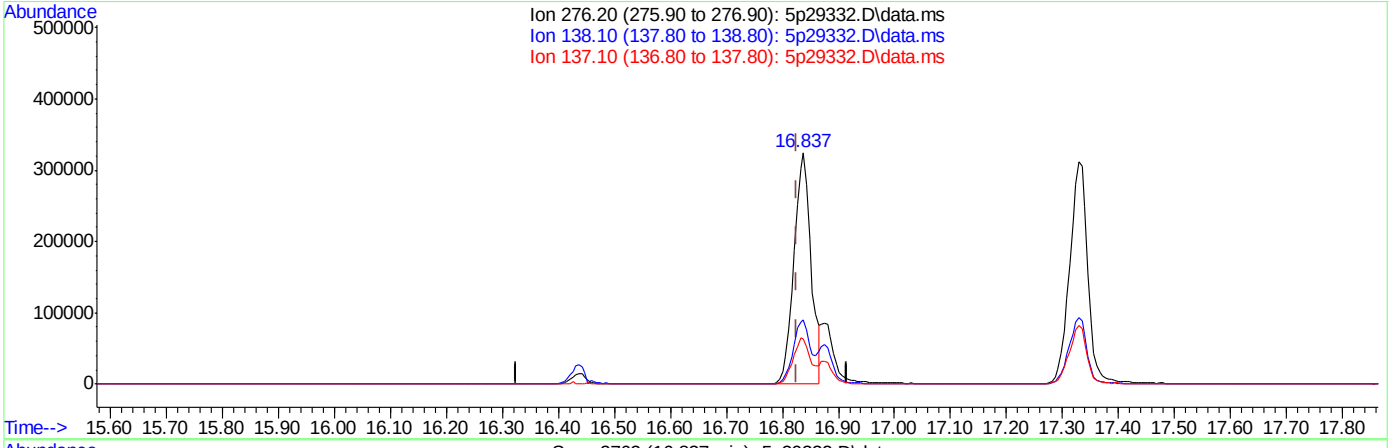
Ion	Exp%	Act%
276.20	100	100
138.10	21.30	27.01
137.10	16.30	19.14
0.00	0.00	0.00

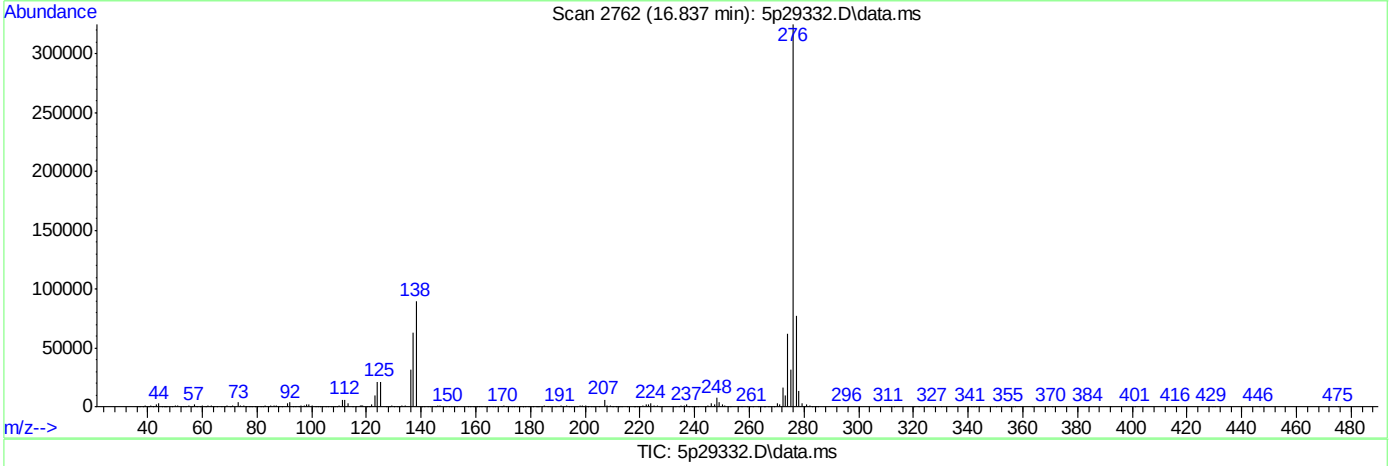
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29332.D
Acq On : 1 Jul 2016 3:12 pm
Operator : kristis
Sample : ic1496-25
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 01 15:31:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:11:21 2016
Response via : Initial Calibration





TIC: 5p29332.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.837min (+0.011) 24.45ppm m

response 682486

Ion	Exp%	Act%
276.20	100	100
138.10	21.30	27.67
137.10	16.30	19.43
0.00	0.00	0.00

SGS ACCUTEST JC23654

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/05/16 10:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 16:05:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	353772	40.00	ppm	0.00
24) Naphthalene-d8	6.211	136	1446815	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	834002	40.00	ppm	0.00
69) Phenanthrene-d10	9.486	188	1425066	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	1193359	40.00	ppm	0.00
91) Perylene-d12	15.138	264	1089112	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	353772	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	834002	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	1193359	40.00	ppm	0.00
108) Phenanthrene-d10a	9.486	188	1425066	40.00	ppm	0.00
111) Naphthalene-d8a	6.211	136	1446815	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	1193359	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	353772	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	1193359	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.834	112	106424	9.87	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.74%	
8) Phenol-d5	4.662	99	131050	10.03	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.06%	
25) Nitrobenzene-d5	5.517	82	104261	9.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.78%	
51) 2-Fluorobiphenyl	7.259	172	233662	10.54	ppm	0.00
Spiked Amount 50.000			Recovery	=	21.08%	
73) 2,4,6-Tribromophenol	8.717	330	30148	9.94	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.88%	
85) Terphenyl-d14	11.543	244	228558	10.06	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.12%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.429	88	45182	9.30	ppm	92
3) Pyridine	2.712	79	109529	9.47	ppm	97
4) N-Nitrosodimethylamine	2.680	74	61197	9.39	ppm	93
6) Indene	5.245	116	203450	10.07	ppm	98
7) Cumene	4.288	105	273091	9.71	ppm	98
9) Phenol	4.673	94	159206	10.15	ppm	97
10) Aniline	4.700	93	172461	10.20	ppm	99
11) bis(2-Chloroethyl)ether	4.753	93	103634	10.16	ppm	97
12) 2-Chlorophenol	4.812	128	125276	9.94	ppm	98
13) Decane	4.855	43	105978	9.78	ppm	99
14) 1,3-Dichlorobenzene	4.956	146	137941	10.01	ppm	99
15) 1,4-Dichlorobenzene	5.020	146	132320	9.80	ppm	99
16) Benzyl alcohol	5.127	108	73160	9.99	ppm	97
17) 1,2-Dichlorobenzene	5.164	146	127849	10.05	ppm	99
18) Acetophenone	5.373	105	155197	10.07	ppm	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 16:05:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2-Methylphenol	5.234	108	104919	10.19	ppm	97
20) 2,2'-oxybis(1-Chloropr...	5.250	45	134811	9.95	ppm	98
21) 3&4-Methylphenol	5.373	108	108986	9.97	ppm	98
22) n-Nitroso-di-n-propyla...	5.373	70	69726	10.06	ppm	97
23) Hexachloroethane	5.485	201	40800	10.02	ppm	90
26) Nitrobenzene	5.538	77	107832	9.94	ppm	99
27) Quinoline	6.548	129	238430	9.94	ppm	98
28) Isophorone	5.763	82	191765	9.97	ppm	98
29) 2-Nitrophenol	5.843	139	68652	10.09	ppm	92
30) 2,4-Dimethylphenol	5.880	107	110772	9.58	ppm	98
31) Benzoic acid	5.966	105	29438	4.64	ppm	94
32) bis(2-Chloroethoxy)met...	5.966	93	119236	9.65	ppm	98
33) 2,4-Dichlorophenol	6.073	162	102477	10.21	ppm	98
34) 2,6-Dichlorophenol	6.292	162	96249	9.69	ppm	98
35) 1,3,5-Trichlorobenzene	5.854	180	106168	9.76	ppm	96
36) 1,2,4-Trichlorobenzene	6.158	180	101747	9.93	ppm	99
37) 1,2,3-Trichlorobenzene	6.372	180	97341	9.72	ppm	95
38) Naphthalene	6.233	128	338608	9.95	ppm	99
39) 4-Chloroaniline	6.281	127	144161	10.20	ppm	99
40) 2,3-Dichloroaniline	7.178	161	118525	10.07	ppm	98
41) Caprolactam	6.601	55	44405	9.45	ppm	97
42) Hexachlorobutadiene	6.356	225	51415	9.81	ppm	96
43) 4-Chloro-3-methylphenol	6.756	107	99722	10.08	ppm	97
44) 2-Methylnaphthalene	6.901	141	195101	10.26	ppm	95
45) 1-Methylnaphthalene	6.997	141	203839	9.92	ppm	98
46) Dimethylnaphthalene	7.510	156	206097	10.22	ppm	98
48) Hexachlorocyclopentadiene	7.066	237	93686	20.91	ppm	96
49) 2,4,6-Trichlorophenol	7.178	196	65944	10.71	ppm	99
50) 2,4,5-Trichlorophenol	7.216	196	67328	10.54	ppm	99
52) 2-Chloronaphthalene	7.376	162	210141	10.53	ppm	98
53) Biphenyl	7.355	154	285460	10.58	ppm	100
54) 2-Nitroaniline	7.472	65	52629	10.23	ppm	94
55) Dimethylphthalate	7.654	163	208397	9.96	ppm	98
56) Acenaphthylene	7.782	152	315532	9.88	ppm	98
57) 2,6-Dinitrotoluene	7.707	165	45633	9.79	ppm	96
58) 3-Nitroaniline	7.873	138	57516	9.85	ppm	99
59) Acenaphthene	7.953	153	195637	9.96	ppm	97
60) 2,4-Dinitrophenol	7.980	184	25132	13.44	ppm	82
61) 4-Nitrophenol	8.049	109	23122	9.51	ppm	96
62) Dibenzofuran	8.124	168	271682	10.09	ppm	99
63) 2,4-Dinitrotoluene	8.103	165	63344	9.88	ppm	94
64) 2,3,4,6-Tetrachlorophenol	8.252	232	48621	10.10	ppm	93
65) Diethylphthalate	8.348	149	211319	10.14	ppm	98
66) Fluorene	8.466	166	214434	9.95	ppm	97
67) 4-Chlorophenyl-phenyle...	8.466	204	89991	9.71	ppm	98
68) 4-Nitroaniline	8.482	138	59451	10.15	ppm	97
70) 4,6-Dinitro-2-methylph...	8.514	198	26641	9.48	ppm	94
71) n-Nitrosodiphenylamine	8.583	169	157123	10.13	ppm	97
72) 1,2-Diphenylhydrazine	8.626	77	204854	10.21	ppm	96
74) 4-Bromophenyl-phenylether	8.979	248	60761	9.64	ppm	96

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 16:05:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
75)	Hexachlorobenzene	9.054	284	67679	10.01 ppm	90
76)	Pentachlorophenol	9.273	266	50879	18.90 ppm	98
77)	Phenanthrene	9.508	178	322015	10.10 ppm	99
78)	Anthracene	9.566	178	335469	10.22 ppm	99
79)	Carbazole	9.753	167	324710	10.16 ppm	100
80)	Di-n-butylphthalate	10.191	149	386761	9.99 ppm	100
81)	Fluoranthene	11.003	202	338555	9.97 ppm	99
82)	Octadecane	9.363	57	138830	10.20 ppm	98
84)	Pyrene	11.313	202	355515	10.14 ppm	99
86)	Butylbenzylphthalate	12.275	149	168170	9.85 ppm	99
87)	Benzo[a]anthracene	13.060	228	319053	9.84 ppm	99
88)	3,3'-Dichlorobenzidine	13.039	252	120570	9.76 ppm	99
89)	Chrysene	13.108	228	309971	9.82 ppm	99
90)	bis(2-Ethylhexyl)phtha...	13.172	149	226011	9.80 ppm	97
92)	Di-n-octylphthalate	14.129	149	388616	9.80 ppm	99
93)	Benzo[b]fluoranthene	14.604	252	317756	9.85 ppm	99
94)	Benzo[k]fluoranthene	14.647	252	302160	9.81 ppm	99
95)	Benzo[a]pyrene	15.048	252	284597	9.75 ppm	97
96)	Indeno[1,2,3-cd]pyrene	16.826	276	264980m	9.47 ppm	
97)	Dibenz(a,h)acridine	16.431	279	253867	9.64 ppm	98
98)	Dibenz[a,h]anthracene	16.864	278	288122	9.86 ppm	98
99)	7,12-Dimethylbenz(a)an...	14.604	256	145561	9.81 ppm	99
100)	Benzo[g,h,i]perylene	17.318	276	281125	9.55 ppm	99

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

7.6.34

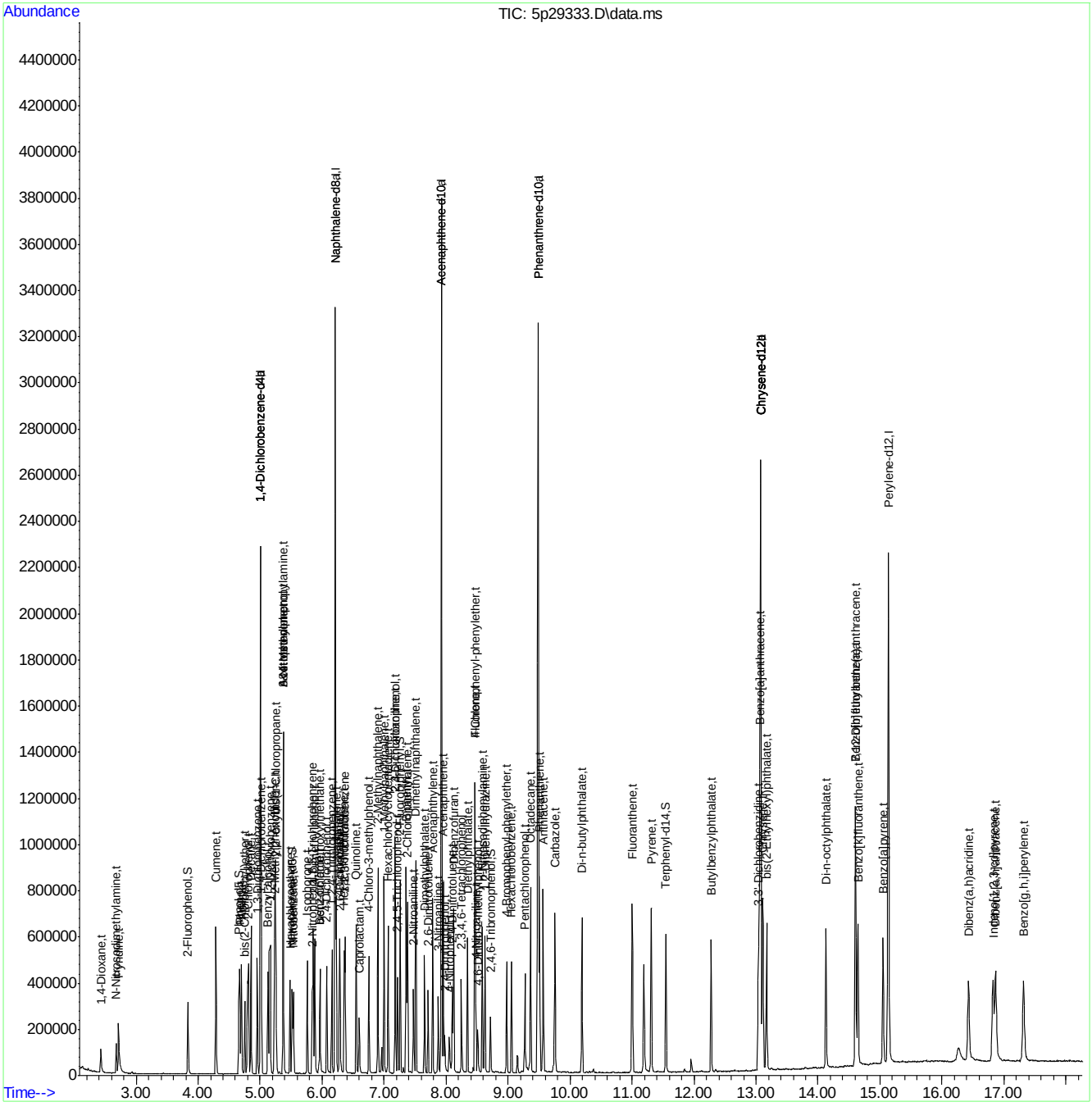
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 16:05:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Manual Integration Approval Summary

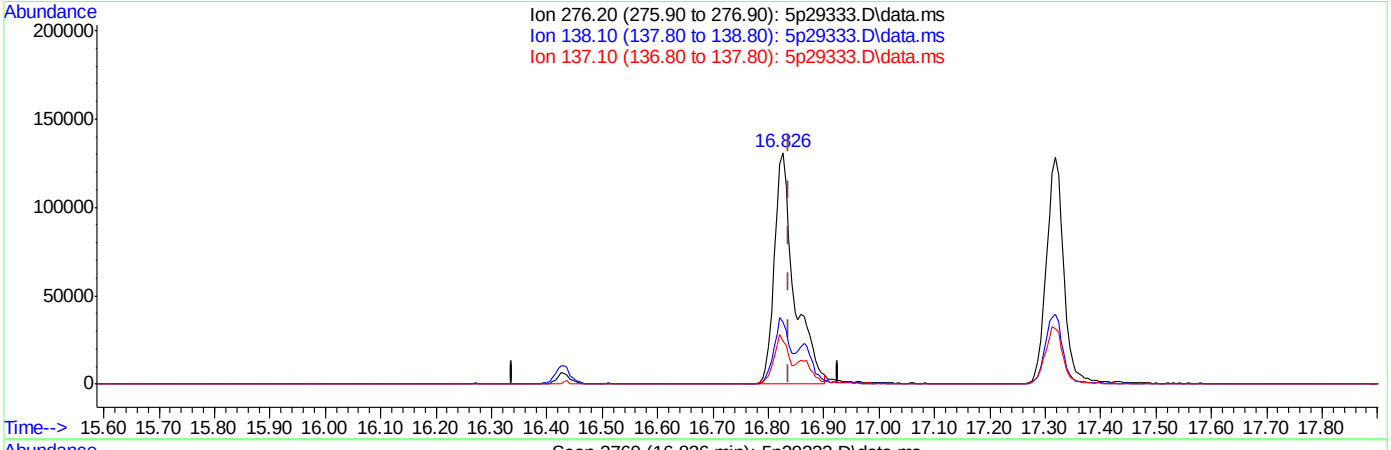
Sample Number:	E5P1496-IC1496	**Method:**	SW846 8270D
Lab FileID:	5P29333.D	**Analyst approved:**	07/03/16 16:26 Kristi Schollenberger
Injection Time:	07/01/16 15:38	**Supervisor approved:**	07/05/16 10:03 Nina Pandya

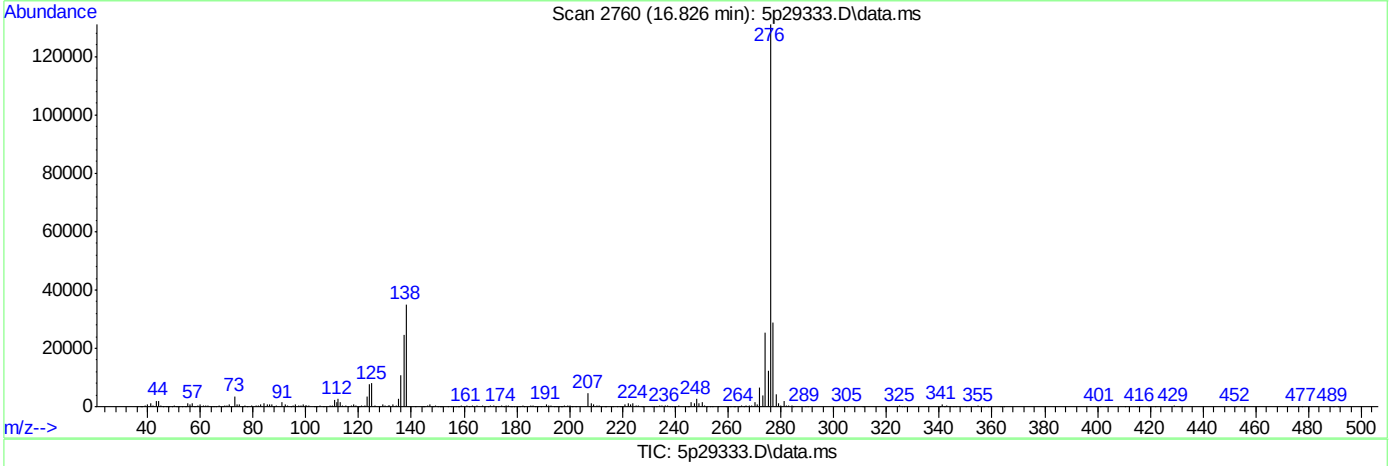
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		16.83	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 15:56:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration





TIC: 5p29333.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.826min (-0.011) 11.69ppm

response 327396

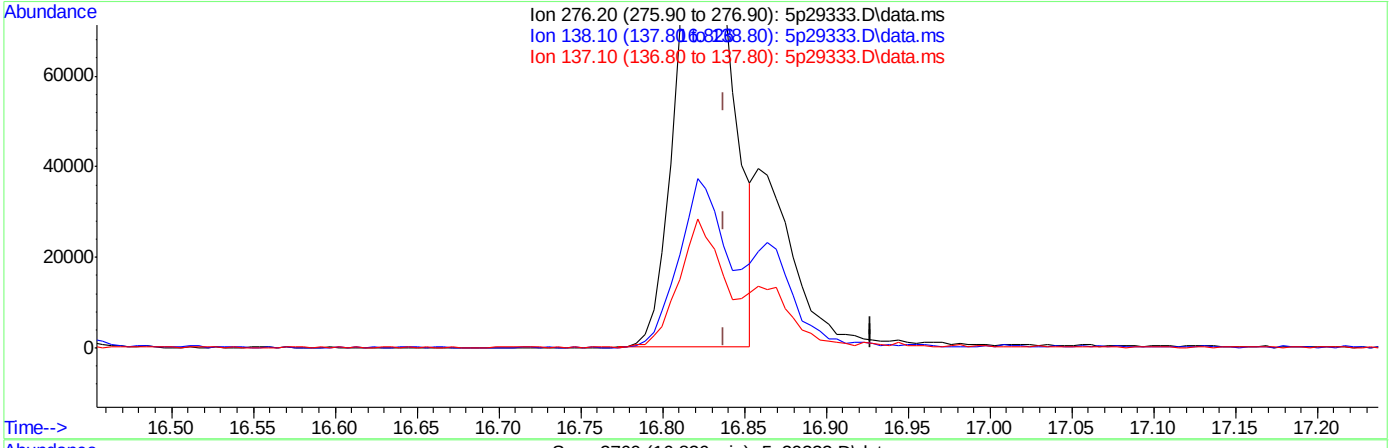
Ion	Exp%	Act%
276.20	100	100
138.10	27.70	26.55
137.10	19.40	18.47
0.00	0.00	0.00

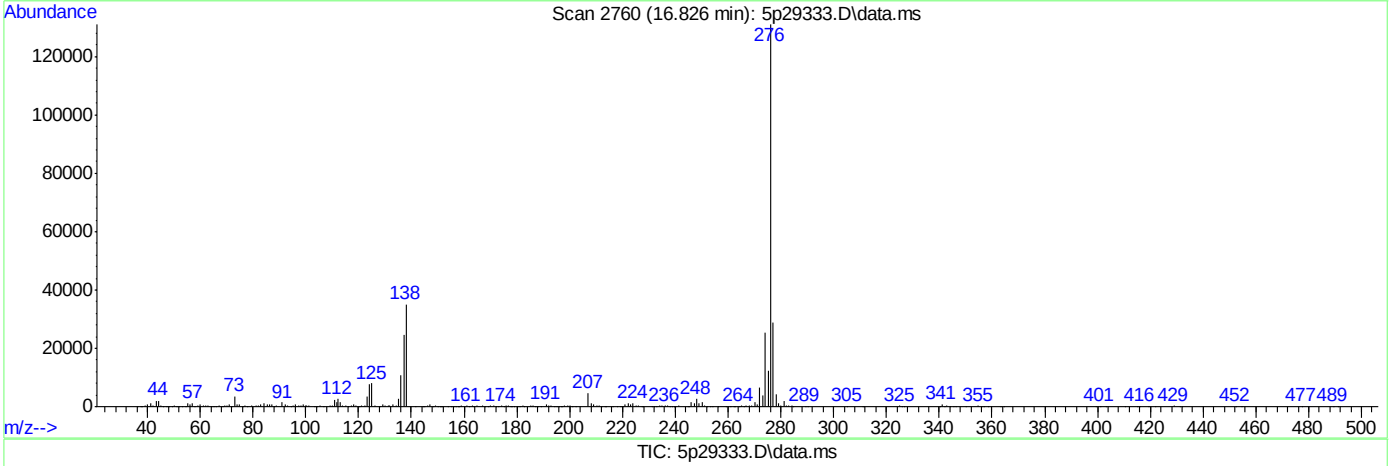
SGS ACCUTEST JC23654

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1496\
Data File : 5p29333.D
Acq On : 1 Jul 2016 3:38 pm
Operator : kristis
Sample : ic1496-10
Misc : op94797,e5p1496,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 01 15:56:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Fri Jul 01 15:38:12 2016
Response via : Initial Calibration





TIC: 5p29333.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.826min (-0.011) 9.47ppm m

response 264980

Ion	Exp%	Act%
276.20	100	100
138.10	27.70	26.81
137.10	19.40	18.76
0.00	0.00	0.00

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29336.D
Acq On : 1 Jul 2016 5:03 pm
Operator : ashleyn
Sample : ic1497-100
Misc : op94797,e5p1497
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 14:33:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	255018	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1099788	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	516521	40.00	ppm	0.00
69) Phenanthrene-d10	9.486	188	953071	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	868216	40.00	ppm	0.00
91) Perylene-d12	15.139	264	866983	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	255018	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	516521	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	868216	40.00	ppm	0.00
108) Phenanthrene-d10a	9.486	188	953071	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1099788	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	868216	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	255000	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	868216	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.881	57	632768	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
109) o-terphenyl	9.946	230	1230744	100.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	200.00%	
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	272977	100.00	ppm	100
104) 1,2,4,5-Tetrachloroben...	7.072	216	636551	100.00	ppm	100
106) Benzidine	11.201	184	1097628	100.00	ppm	100
110) Atrazine	9.166	215	238688	100.00	ppm	100
112) Hydroquinone	6.618	110	928860	100.00	ppm	100

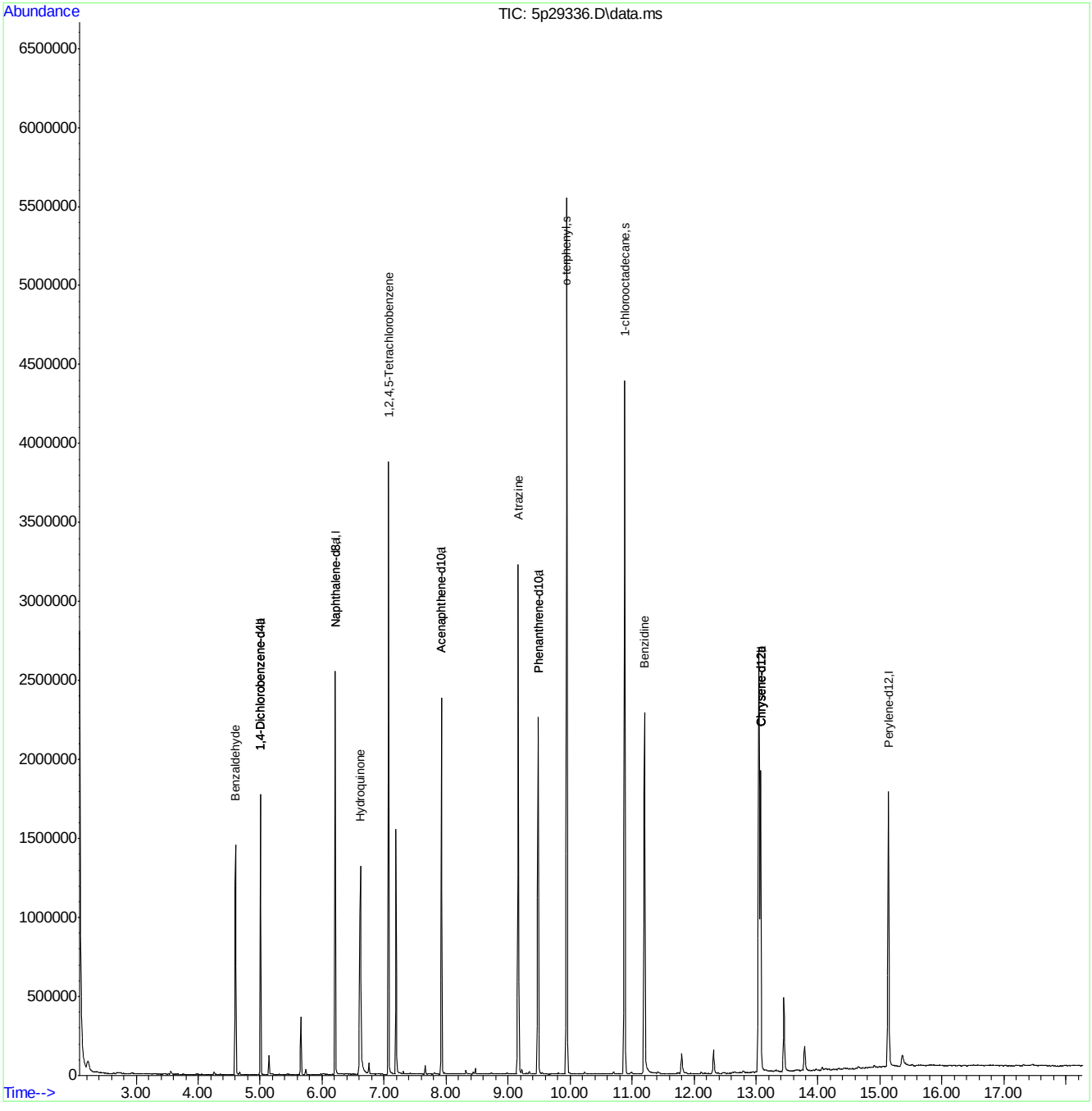
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29336.D
Acq On : 1 Jul 2016 5:03 pm
Operator : ashleyn
Sample : ic1497-100
Misc : op94797,e5p1497
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 03 14:33:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29337.D
Acq On : 1 Jul 2016 5:29 pm
Operator : ashleyn
Sample : ic1497-80
Misc : op94797,e5p1497
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 03 14:35:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

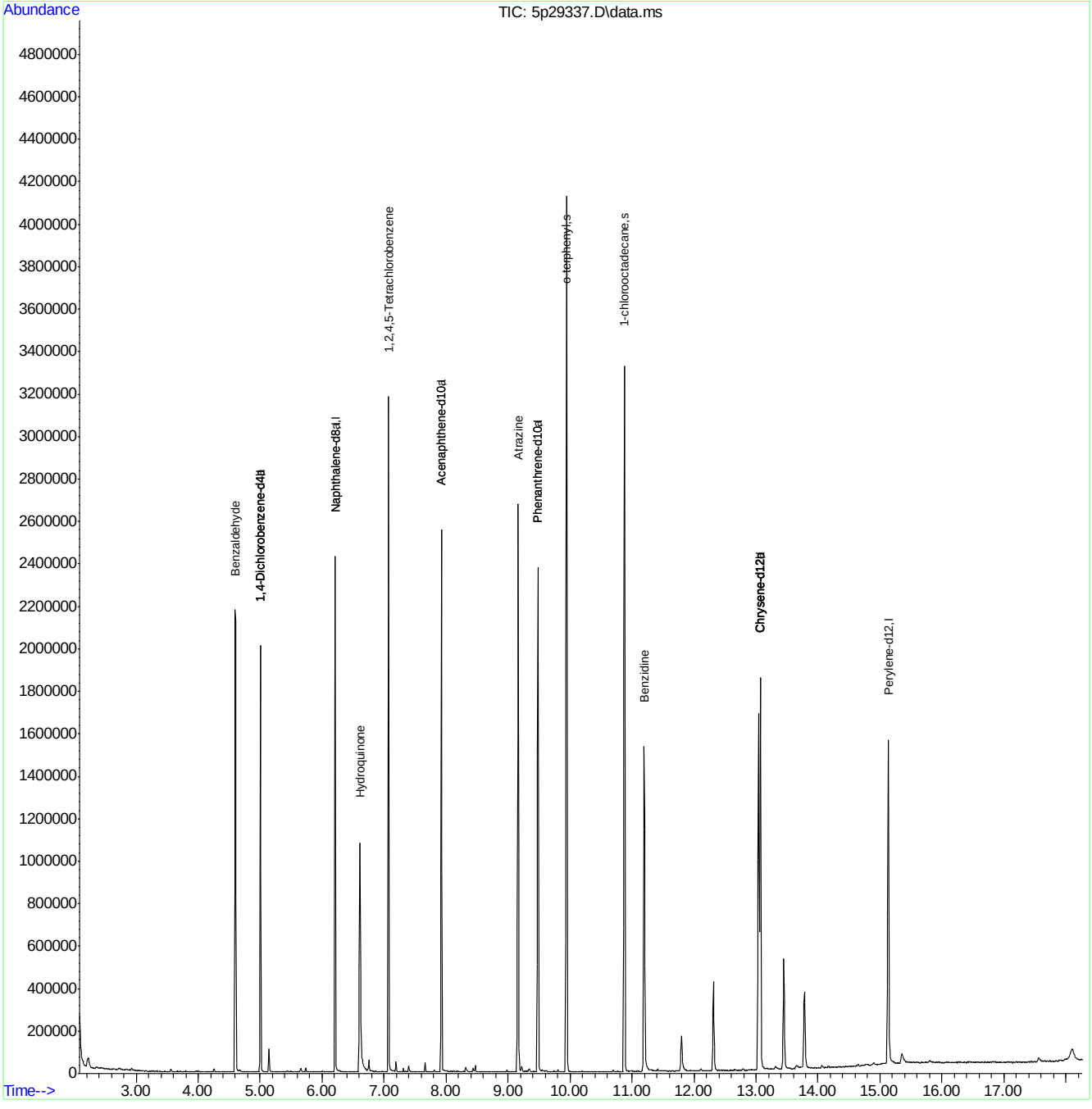
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	309836	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1155008	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	600250	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	964798	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	801160	40.00	ppm	0.00
91) Perylene-d12	15.139	264	779640	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	309836	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	600250	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	801191	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	964798	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1155008	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	801191	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	309836	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	801191	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
107) 1-chlorooctadecane	10.875	57	498497	85.37	ppm	0.00
Spiked Amount 50.000			Recovery = 170.74%			
109) o-terphenyl	9.946	230	931220	74.74	ppm	0.00
Spiked Amount 50.000			Recovery = 149.48%			
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	455035	137.20	ppm	98
104) 1,2,4,5-Tetrachloroben...	7.072	216	521845	70.54	ppm	100
106) Benzidine	11.196	184	755005	74.54	ppm	98
110) Atrazine	9.166	215	195836	81.05	ppm	92
112) Hydroquinone	6.612	110	759605	77.87	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29337.D
Acq On : 1 Jul 2016 5:29 pm
Operator : ashleyn
Sample : ic1497-80
Misc : op94797,e5p1497
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 03 14:35:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29338.D
Acq On : 1 Jul 2016 5:54 pm
Operator : ashleyn
Sample : icc1497-50
Misc : op94797,e5p1497
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 03 14:36:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	281501	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1077859	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	609230	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	950186	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	958058	40.00	ppm	0.00
91) Perylene-d12	15.133	264	891697	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	281501	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	609230	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	958058	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	950186	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1077859	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	958058	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	281481	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	958060	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.875	57	356127	51.00	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.00%	
109) o-terphenyl	9.940	230	643448	52.44	ppm	0.00
Spiked Amount 50.000			Recovery	=	104.88%	
Target Compounds						Qvalue
102) Benzaldehyde	4.598	105	343347	113.95	ppm	98
104) 1,2,4,5-Tetrachloroben...	7.072	216	348881	46.47	ppm	98
106) Benzidine	11.196	184	558325	46.10	ppm	100
110) Atrazine	9.160	215	114978	48.32	ppm	95
112) Hydroquinone	6.607	110	468030	51.41	ppm	98

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

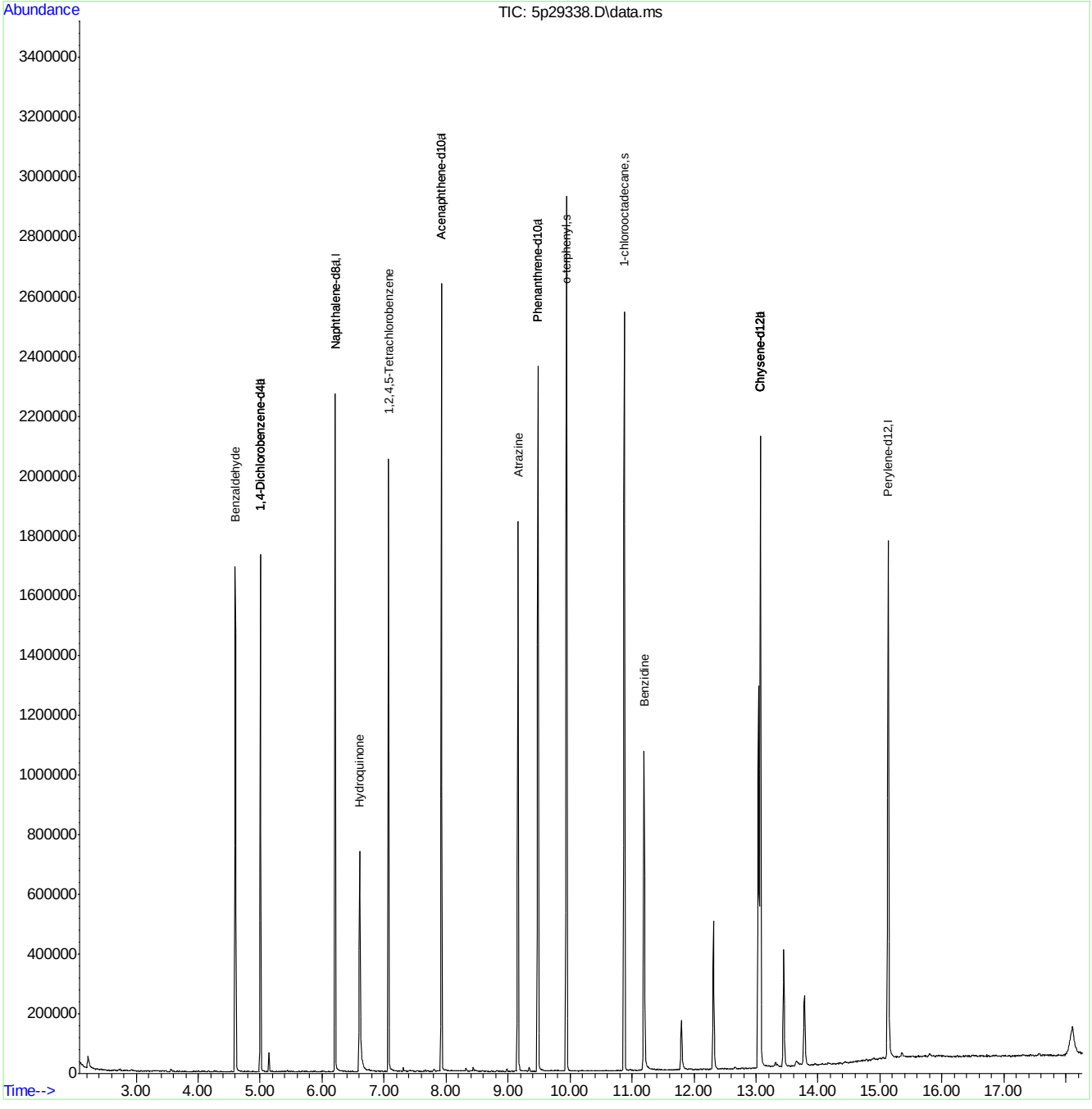
7.6.37

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29338.D
Acq On : 1 Jul 2016 5:54 pm
Operator : ashleyn
Sample : icc1497-50
Misc : op94797,e5p1497
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 03 14:36:17 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29339.D
Acq On : 1 Jul 2016 6:20 pm
Operator : ashleyn
Sample : ic1497-25
Misc : op94797,e5p1497
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 03 14:37:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

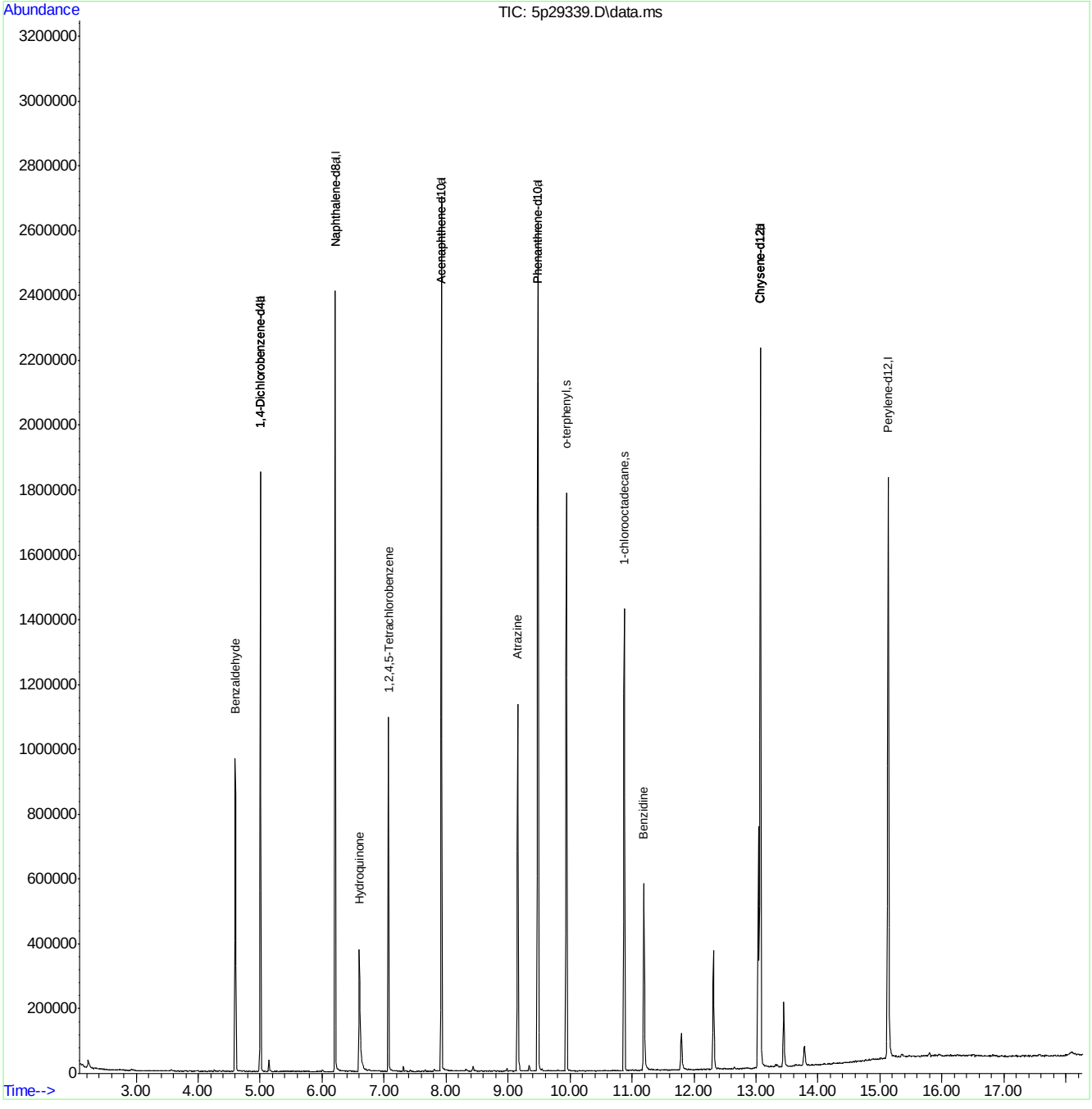
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	300485	40.00	ppm	0.00
24) Naphthalene-d8	6.211	136	1154695	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	654430	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1057055	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	995538	40.00	ppm	0.00
91) Perylene-d12	15.133	264	921849	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	300485	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	654430	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	995538	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1057055	40.00	ppm	0.00
111) Naphthalene-d8a	6.211	136	1154695	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	995538	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	300485	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	995538	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.875	57	190891	26.31	ppm	0.00
Spiked Amount 50.000			Recovery	=	52.62%	
109) o-terphenyl	9.940	230	362212	26.54	ppm	0.00
Spiked Amount 50.000			Recovery	=	53.08%	
Target Compounds						Qvalue
102) Benzaldehyde	4.598	105	194760	60.55	ppm	99
104) 1,2,4,5-Tetrachloroben...	7.071	216	194717	24.14	ppm	98
106) Benzidine	11.190	184	279474	22.21	ppm	99
110) Atrazine	9.155	215	69149	26.12	ppm	95
112) Hydroquinone	6.601	110	247580	25.39	ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29339.D
Acq On : 1 Jul 2016 6:20 pm
Operator : ashleyn
Sample : ic1497-25
Misc : op94797,e5p1497
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 03 14:37:19 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29340.D
Acq On : 1 Jul 2016 6:46 pm
Operator : ashleyn
Sample : ic1497-10
Misc : op94797,e5p1497
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 03 14:38:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

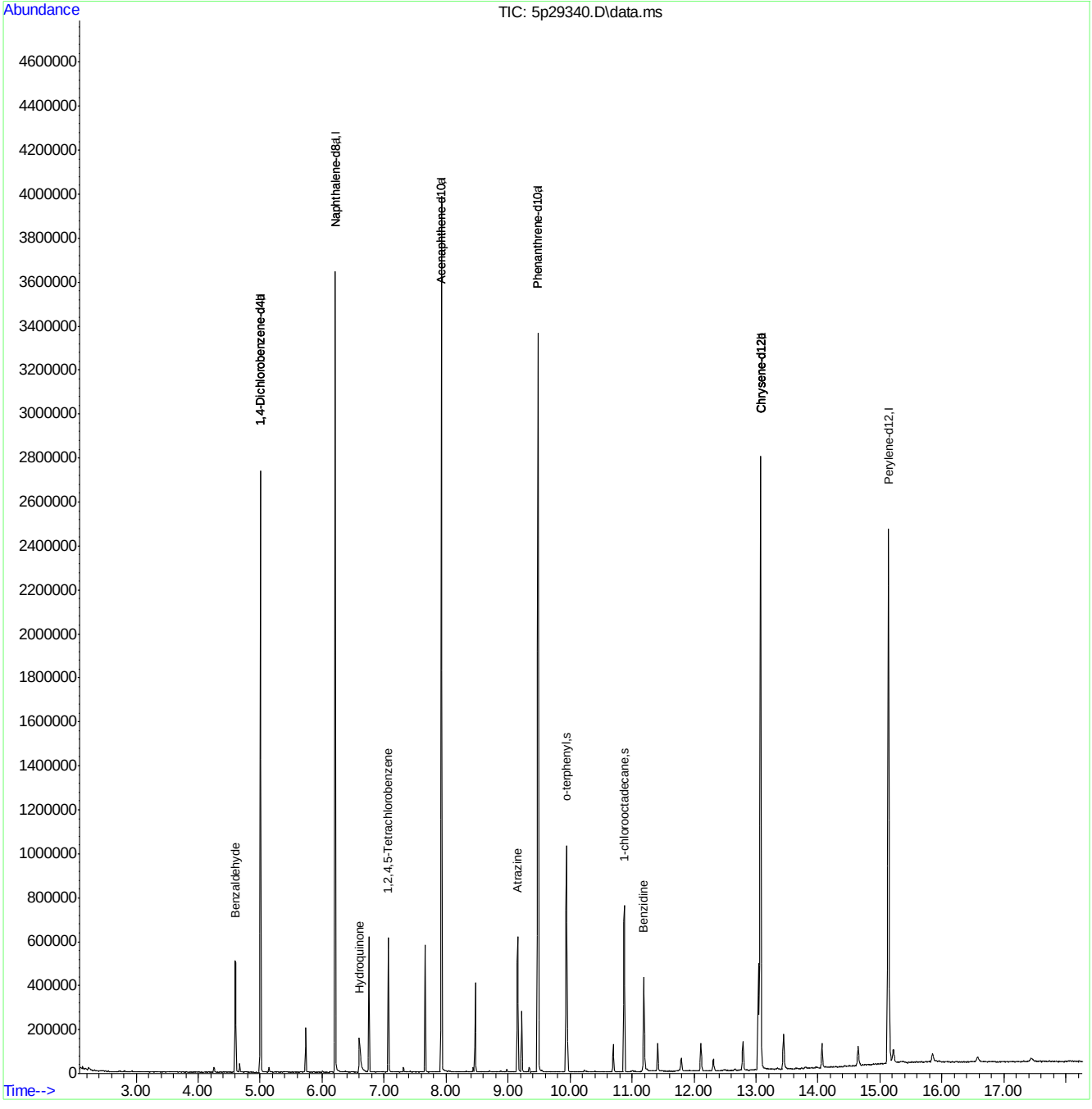
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	430156	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1630997	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	887625	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1429309	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	1358438	40.00	ppm	0.00
91) Perylene-d12	15.138	264	1274799	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	430156	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	887625	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	1358442	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1429309	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1630997	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	1358442	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	430156	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	1358442	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.875	57	103673	10.47	ppm	0.00
Spiked Amount 50.000			Recovery	=	20.94%	
109) o-terphenyl	9.940	230	205103	11.11	ppm	0.00
Spiked Amount 50.000			Recovery	=	22.22%	
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	110245	23.94	ppm	94
104) 1,2,4,5-Tetrachloroben...	7.066	216	110569	10.11	ppm	97
106) Benzidine	11.191	184	209181	12.18	ppm	99
110) Atrazine	9.155	215	38489	10.75	ppm	96
112) Hydroquinone	6.602	110	122139	8.87	ppm	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29340.D
Acq On : 1 Jul 2016 6:46 pm
Operator : ashleyn
Sample : ic1497-10
Misc : op94797,e5p1497
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 03 14:38:12 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29341.D
Acq On : 1 Jul 2016 7:11 pm
Operator : ashleyn
Sample : ic1497-5
Misc : op94797,e5p1497
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 03 14:39:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	421366	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1581446	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	862168	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1351445	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1289247	40.00	ppm	0.00
91) Perylene-d12	15.139	264	1205183	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	421366	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	862168	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1289247	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1351445	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1581446	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1289247	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	421366	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1289247	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.870	57	57571	6.13	ppm	-0.01
Spiked Amount 50.000			Recovery	=	12.26%	
109) o-terphenyl	9.941	230	110495	6.33	ppm	0.00
Spiked Amount 50.000			Recovery	=	12.66%	
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	59884	13.28	ppm	96
104) 1,2,4,5-Tetrachloroben...	7.066	216	58773	5.53	ppm	97
106) Benzidine	11.191	184	81766	5.02	ppm	97
110) Atrazine	9.155	215	19281	5.70	ppm	85
112) Hydroquinone	6.612	110	63263	4.74	ppm	99

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

7.6.40

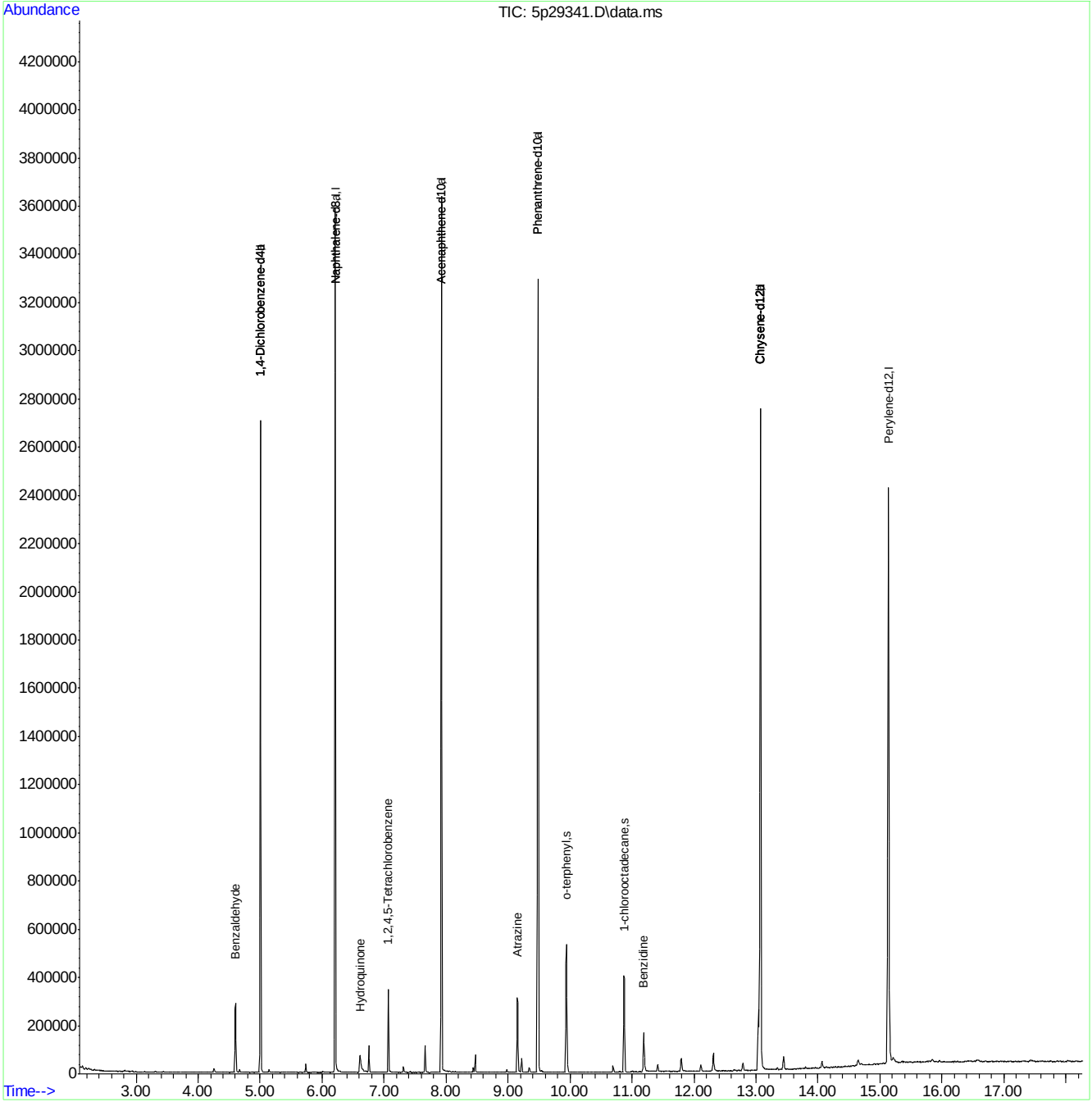
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29341.D
Acq On : 1 Jul 2016 7:11 pm
Operator : ashleyn
Sample : ic1497-5
Misc : op94797,e5p1497
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 03 14:39:08 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 14:39:12 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29342.D
Acq On : 1 Jul 2016 7:36 pm
Operator : ashleyn
Sample : ic1497-2
Misc : op94797,e5p1497
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 03 14:39:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	379099	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1430401	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	783528	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1230245	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1189424	40.00	ppm	0.00
91) Perylene-d12	15.138	264	1089333	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	379099	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	783528	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1189424	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1230245	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1430401	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1189424	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	379261	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1189424	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.870	57	19874	2.29	ppm	-0.01
Spiked Amount 50.000			Recovery	=	4.58%	
109) o-terphenyl	9.940	230	38175	2.40	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.80%	
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	22268	5.49	ppm	97
104) 1,2,4,5-Tetrachloroben...	7.072	216	21516	2.23	ppm	94
106) Benzidine	11.191	184	21319	1.42	ppm	95
110) Atrazine	9.155	215	7176	2.33	ppm	87
112) Hydroquinone	6.628	110	18690	1.55	ppm	96

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

7.6.41

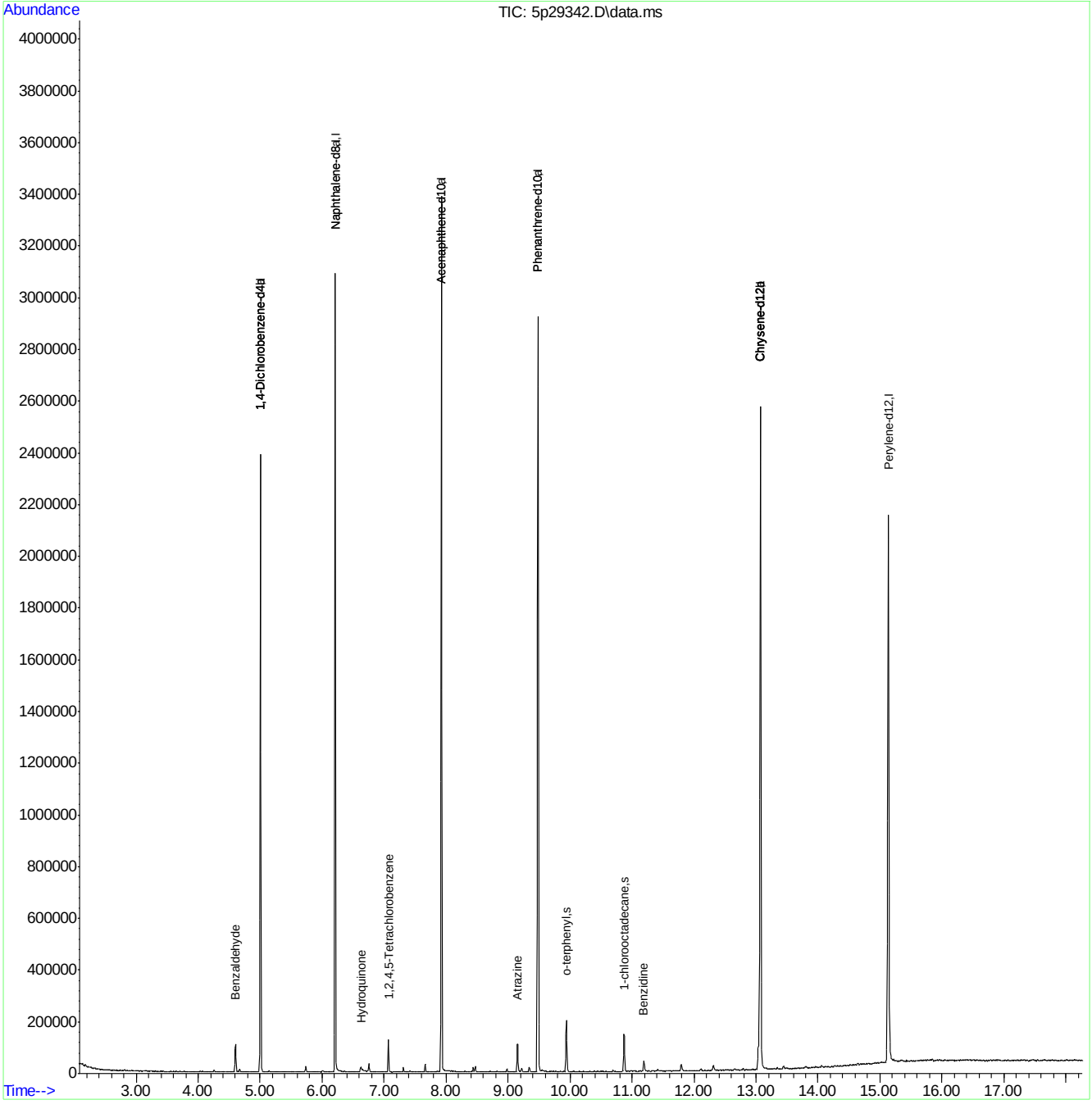
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29342.D
Acq On : 1 Jul 2016 7:36 pm
Operator : ashleyn
Sample : ic1497-2
Misc : op94797,e5p1497
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 03 14:39:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29343.D
Acq On : 1 Jul 2016 8:01 pm
Operator : ashleyn
Sample : ic1497-1
Misc : op94797,e5p1497
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 14:40:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	365948	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1371699	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	754494	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1178662	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1122094	40.00	ppm	0.00
91) Perylene-d12	15.138	264	1032649	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	365948	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	754494	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1122094	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1178662	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1371699	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1122094	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	365948	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1122094	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	10.875	57	9956	1.22	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.44%	
109) o-terphenyl	9.940	230	19046	1.25	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.50%	
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	10189	2.60	ppm	85
104) 1,2,4,5-Tetrachloroben...	7.066	216	10482	1.13	ppm	94
106) Benzidine	11.191	184	10210	0.72	ppm	96
110) Atrazine	9.155	215	3341	1.13	ppm	85
112) Hydroquinone	6.655	110	8422	0.73	ppm	89

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

7.6.42

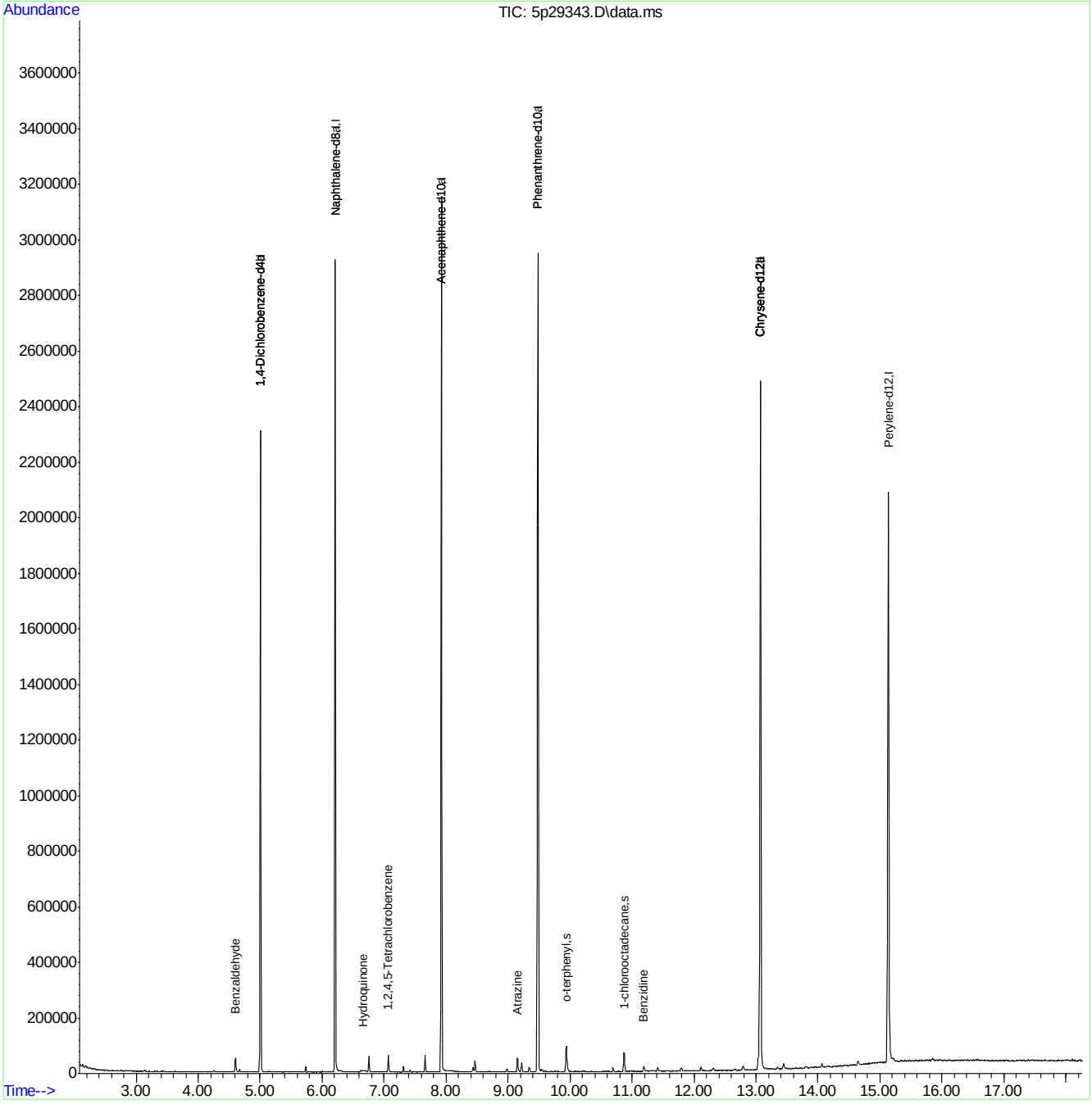
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29343.D
Acq On : 1 Jul 2016 8:01 pm
Operator : ashleyn
Sample : ic1497-1
Misc : op94797,e5p1497
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 14:40:44 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:33:00 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29344.D
Acq On : 1 Jul 2016 8:27 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 14:50:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	351266	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1297895	40.00	ppm	0.00
47) Acenaphthene-d10	7.927	164	706696	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1070087	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	943472	40.00	ppm	0.00
91) Perylene-d12	15.133	264	807251	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	351266	40.00	ppm	0.00
103) Acenaphthene-d10a	7.927	164	706696	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	943462	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1070087	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1297895	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	943462	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	351266	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	943462	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
9) Phenol	4.673	94	659975	42.29	ppm	99
12) 2-Chlorophenol	4.812	128	567461	45.36	ppm	98
19) 2-Methylphenol	5.234	108	495917	48.39	ppm	99
21) 3&4-Methylphenol	5.373	108	521094	48.05	ppm	98
29) 2-Nitrophenol	5.843	139	303731	49.71	ppm	98
30) 2,4-Dimethylphenol	5.880	107	507718	49.19	ppm	97
33) 2,4-Dichlorophenol	6.073	162	440186	48.75	ppm	99
34) 2,6-Dichlorophenol	6.292	162	426377	48.05	ppm	98
43) 4-Chloro-3-methylphenol	6.751	107	420497	47.34	ppm	98
49) 2,4,6-Trichlorophenol	7.179	196	277238	52.65	ppm	98
50) 2,4,5-Trichlorophenol	7.216	196	279679	51.32	ppm	99
60) 2,4-Dinitrophenol	7.980	184	66065	38.68	ppm #	89
61) 4-Nitrophenol	8.044	109	103743	50.66	ppm	87
64) 2,3,4,6-Tetrachlorophenol	8.252	232	206493	50.57	ppm	98
70) 4,6-Dinitro-2-methylph...	8.514	198	133514	46.17	ppm	91

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29344.D
Acq On : 1 Jul 2016 8:27 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 14:50:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
76) Pentachlorophenol	9.273	266	111255	46.48 ppm	99

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

7.6.43

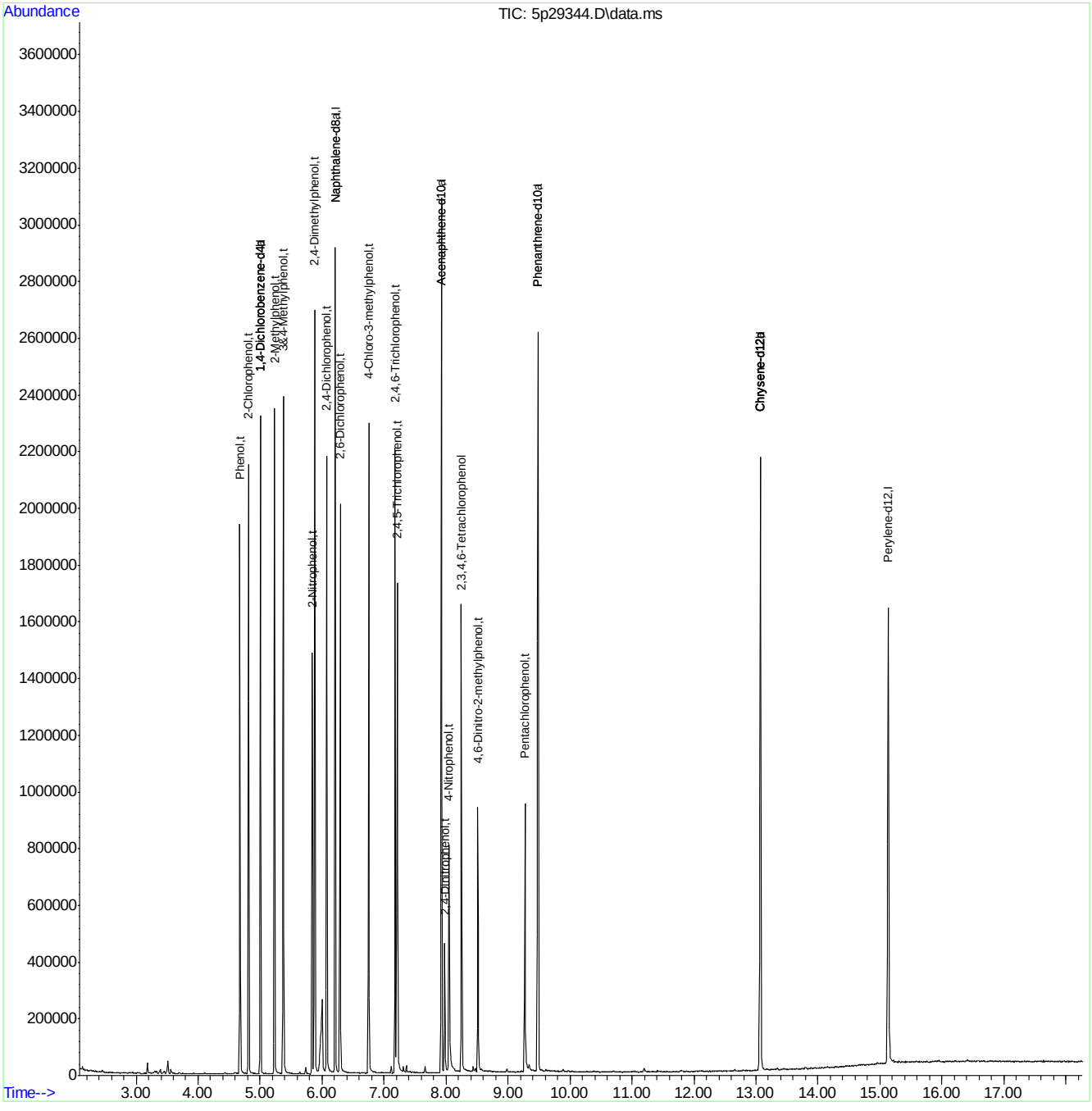
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29344.D
Acq On : 1 Jul 2016 8:27 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 03 14:50:56 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:33:58 2016 RPT1 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29345.D
Acq On : 1 Jul 2016 8:52 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 03 14:53:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	310268	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1256198	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	693773	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1047482	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	817438	40.00	ppm	0.00
91) Perylene-d12	15.133	264	609920	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	310268	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	693773	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	817438	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1047482	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1256198	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	817438	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	310268	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	817438	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
3) Pyridine	2.825	79	505379	50.15	ppm	99
10) Aniline	4.705	93	805156	54.17	ppm	67
16) Benzyl alcohol	5.132	108	353460	55.02	ppm	100
39) 4-Chloroaniline	6.281	127	670324	54.51	ppm	98
44) 2-Methylnaphthalene	6.901	141	873407	52.72	ppm	99
54) 2-Nitroaniline	7.478	65	236787	55.17	ppm	96
58) 3-Nitroaniline	7.878	138	275199	56.78	ppm	98
62) Dibenzofuran	8.124	168	1340389	59.76	ppm	100
68) 4-Nitroaniline	8.487	138	258879	53.01	ppm	98
79) Carbazole	9.759	167	1283598	54.52	ppm	99

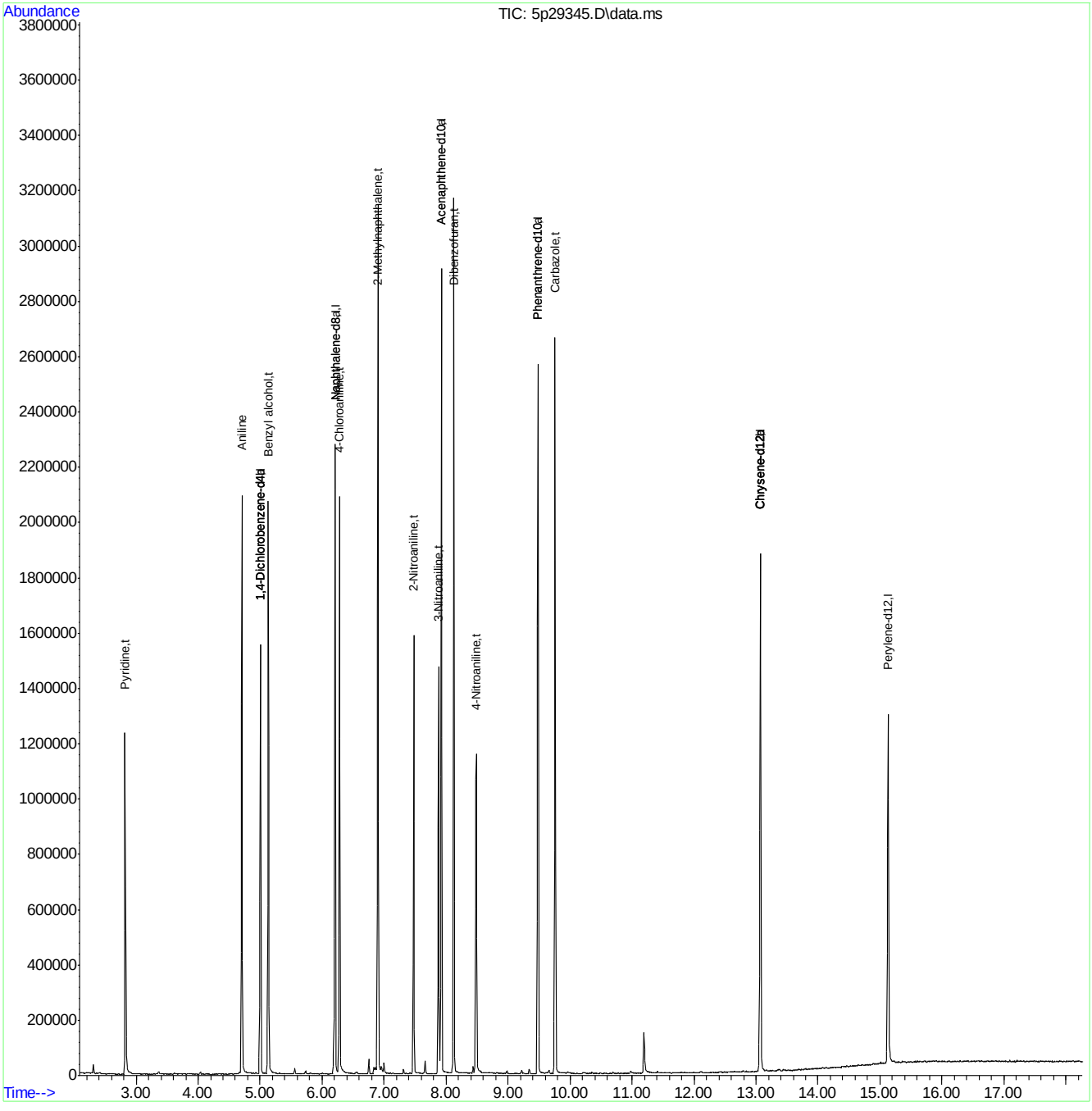
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29345.D
Acq On : 1 Jul 2016 8:52 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 03 14:53:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:34:02 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29346.D
Acq On : 1 Jul 2016 9:18 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 03 14:54:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	354974	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1310275	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	701547	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	999597	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	839831	40.00	ppm	0.00
91) Perylene-d12	15.133	264	772332	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	354974	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	701547	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	839831	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	999597	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1310275	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	839831	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	354974	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	839803	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.840	112	574101	53.13	ppm	0.00
Spiked Amount 50.000			Recovery	=	106.26%	
8) Phenol-d5	4.662	99	671804	51.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.40%	
25) Nitrobenzene-d5	5.517	82	529664	55.55	ppm	0.00
Spiked Amount 50.000			Recovery	=	111.10%	
51) 2-Fluorobiphenyl	7.259	172	1157753	61.67	ppm	0.00
Spiked Amount 50.000			Recovery	=	123.34%	
73) 2,4,6-Tribromophenol	8.717	330	122949	57.83	ppm	0.00
Spiked Amount 50.000			Recovery	=	115.66%	
85) Terphenyl-d14	11.548	244	896707	56.04	ppm	0.00
Spiked Amount 50.000			Recovery	=	112.08%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	

Target Compounds Qvalue

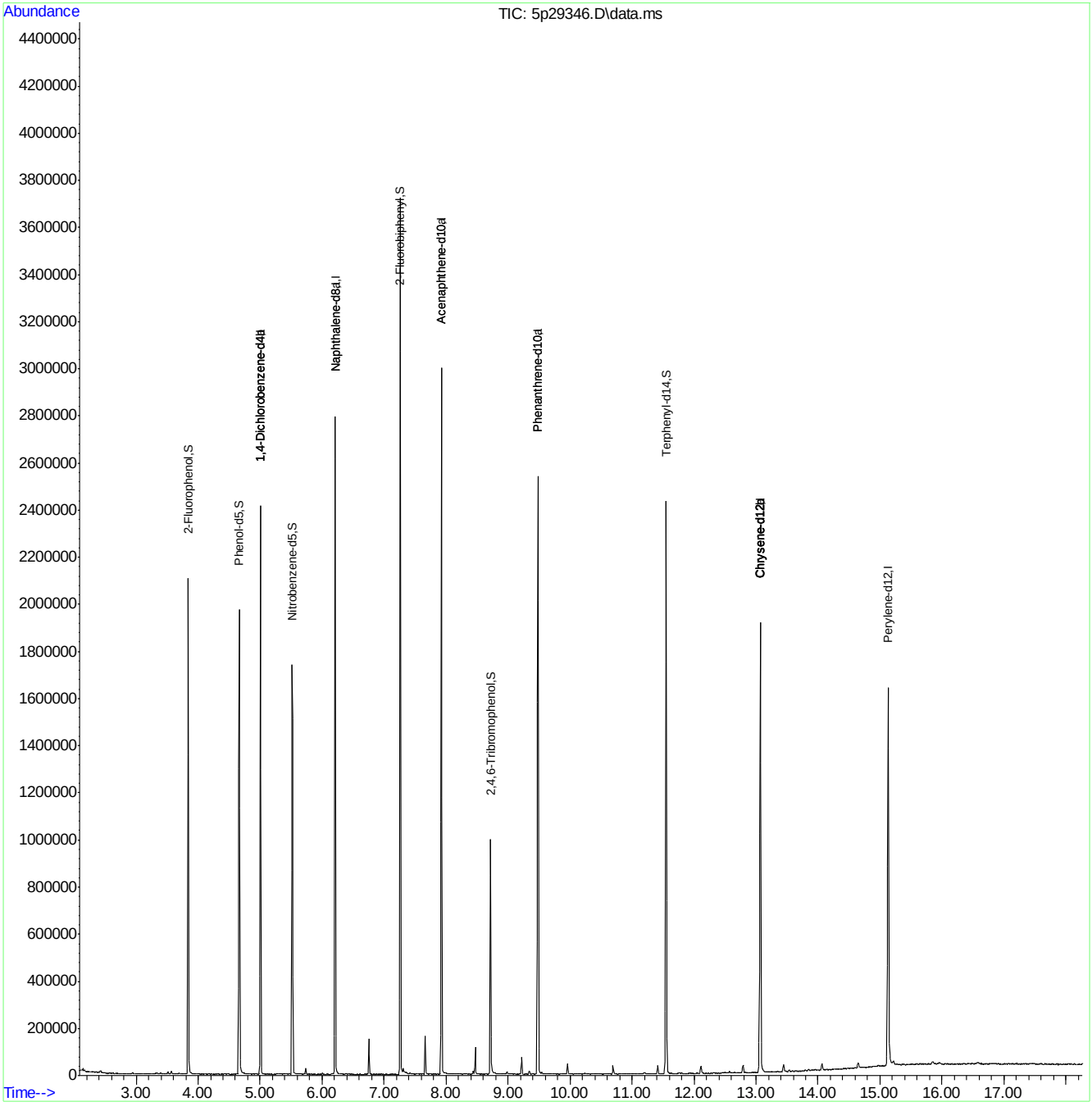
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29346.D
Acq On : 1 Jul 2016 9:18 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 03 14:54:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 14:54:53 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29347a.D
Acq On : 1 Jul 2016 9:43 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 03 16:00:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	337388	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1225960	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	648384	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	937225	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	813266	40.00	ppm	0.00
91) Perylene-d12	15.133	264	771825	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	337388	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	648384	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	813229	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	937225	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1225960	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	813229	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	337388	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	813229	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
104) 1,2,4,5-Tetrachloroben...	7.072	216	427605	52.62	ppm	98

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

7.6.46

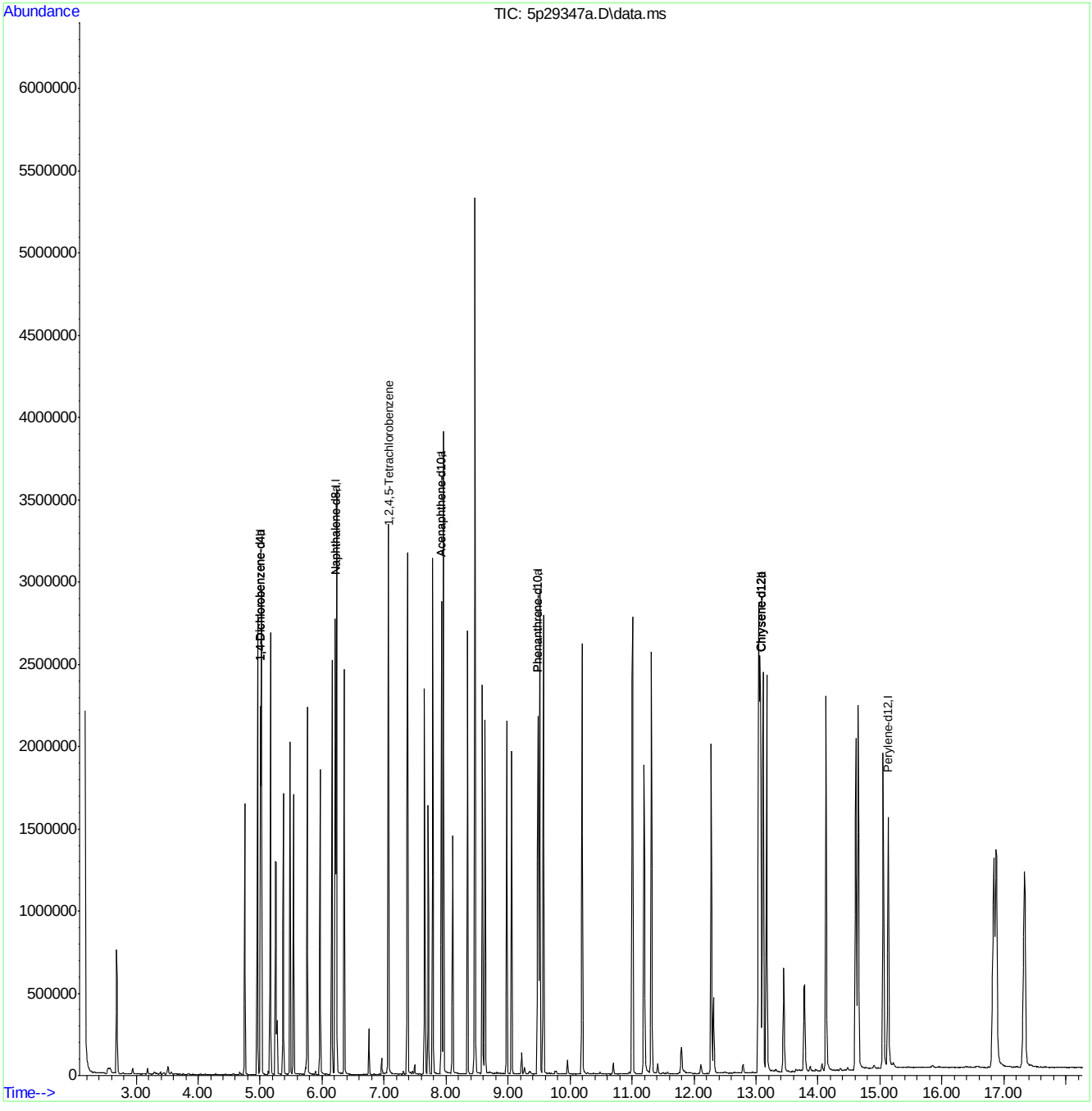
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29347a.D
Acq On : 1 Jul 2016 9:43 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 03 16:00:47 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:00:51 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29347.D
Acq On : 1 Jul 2016 9:43 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 06 12:26:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	337388	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1225960	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	648384	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	937225	40.00	ppm	0.00
83) Chrysene-d12	13.076	240	813266	40.00	ppm	0.00
91) Perylene-d12	15.133	264	771825	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	337388	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	648384	40.00	ppm	0.00
105) Chrysene-d12a	13.076	240	813229	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	937225	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1225960	40.00	ppm	0.00
113) Chrysene-d12b	13.076	240	813229	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	337388	40.00	ppm	0.00
117) Chrysene-d12c	13.076	240	813229	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.686	74	293755	47.63	ppm	92
11) bis(2-Chloroethyl)ether	4.753	93	525928	53.97	ppm	99
14) 1,3-Dichlorobenzene	4.956	146	674317	51.29	ppm	100
15) 1,4-Dichlorobenzene	5.020	146	650697	50.68	ppm	96
17) 1,2-Dichlorobenzene	5.164	146	629988	51.89	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.250	45	622004	48.18	ppm	99
22) n-Nitroso-di-n-propyla...	5.373	70	319305	48.27	ppm	98
23) Hexachloroethane	5.485	201	201948	51.99	ppm	95
26) Nitrobenzene	5.538	77	486108	52.91	ppm	99
28) Isophorone	5.763	82	902772	55.42	ppm	98
32) bis(2-Chloroethoxy)met...	5.966	93	583991	56.01	ppm	97
36) 1,2,4-Trichlorobenzene	6.158	180	489589	56.43	ppm	99
38) Naphthalene	6.233	128	1556604	54.01	ppm	99
42) Hexachlorobutadiene	6.356	225	253819	57.28	ppm	98
48) Hexachlorocyclopentadiene	7.066	237	200250	51.82	ppm	97

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29347.D
Acq On : 1 Jul 2016 9:43 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 06 12:26:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52)	2-Chloronaphthalene	7.376	162	941588	60.29	ppm	99
55)	Dimethylphthalate	7.654	163	964611	59.34	ppm	99
56)	Acenaphthylene	7.788	152	1456741	58.78	ppm	99
57)	2,6-Dinitrotoluene	7.713	165	215458	59.62	ppm	97
59)	Acenaphthene	7.958	153	899766	58.95	ppm	99
63)	2,4-Dinitrotoluene	8.108	165	267908	53.85	ppm	97
65)	Diethylphthalate	8.348	149	933561	57.52	ppm	99
66)	Fluorene	8.471	166	939416	56.12	ppm	99
67)	4-Chlorophenyl-phenyle...	8.466	204	421765	58.73	ppm	100
71)	n-Nitrosodiphenylamine	8.584	169	657979	64.39	ppm	97
72)	1,2-Diphenylhydrazine	8.626	77	826664	62.50	ppm	98
75)	Hexachlorobenzene	9.059	284	273766	61.57	ppm	94
77)	Phenanthrene	9.513	178	1245852	59.33	ppm	100
78)	Anthracene	9.572	178	1241006	57.33	ppm	100
80)	Di-n-butylphthalate	10.197	149	1533056	60.20	ppm	100
81)	Fluoranthene	11.009	202	1315822	58.93	ppm	98
84)	Pyrene	11.319	202	1343576	56.13	ppm	99
86)	Butylbenzylphthalate	12.280	149	638003	54.94	ppm	95
87)	Benzo[a]anthracene	13.060	228	1146223	51.97	ppm	99
89)	Chrysene	13.114	228	1111225	51.78	ppm	100
90)	bis(2-Ethylhexyl)phtha...	13.173	149	851617	54.34	ppm	99
92)	Di-n-octylphthalate	14.129	149	1484722	52.95	ppm	99
93)	Benzo[b]fluoranthene	14.610	252	1137978	49.89	ppm	94
94)	Benzo[k]fluoranthene	14.652	252	1109369	50.92	ppm	99
95)	Benzo[a]pyrene	15.053	252	1058653	51.32	ppm	98
96)	Indeno[1,2,3-cd]pyrene	16.837	276	1049229	53.24	ppm	93
98)	Dibenz[a,h]anthracene	16.875	278	1019240	49.29	ppm	98
100)	Benzo[g,h,i]perylene	17.334	276	1019100	49.15	ppm	100

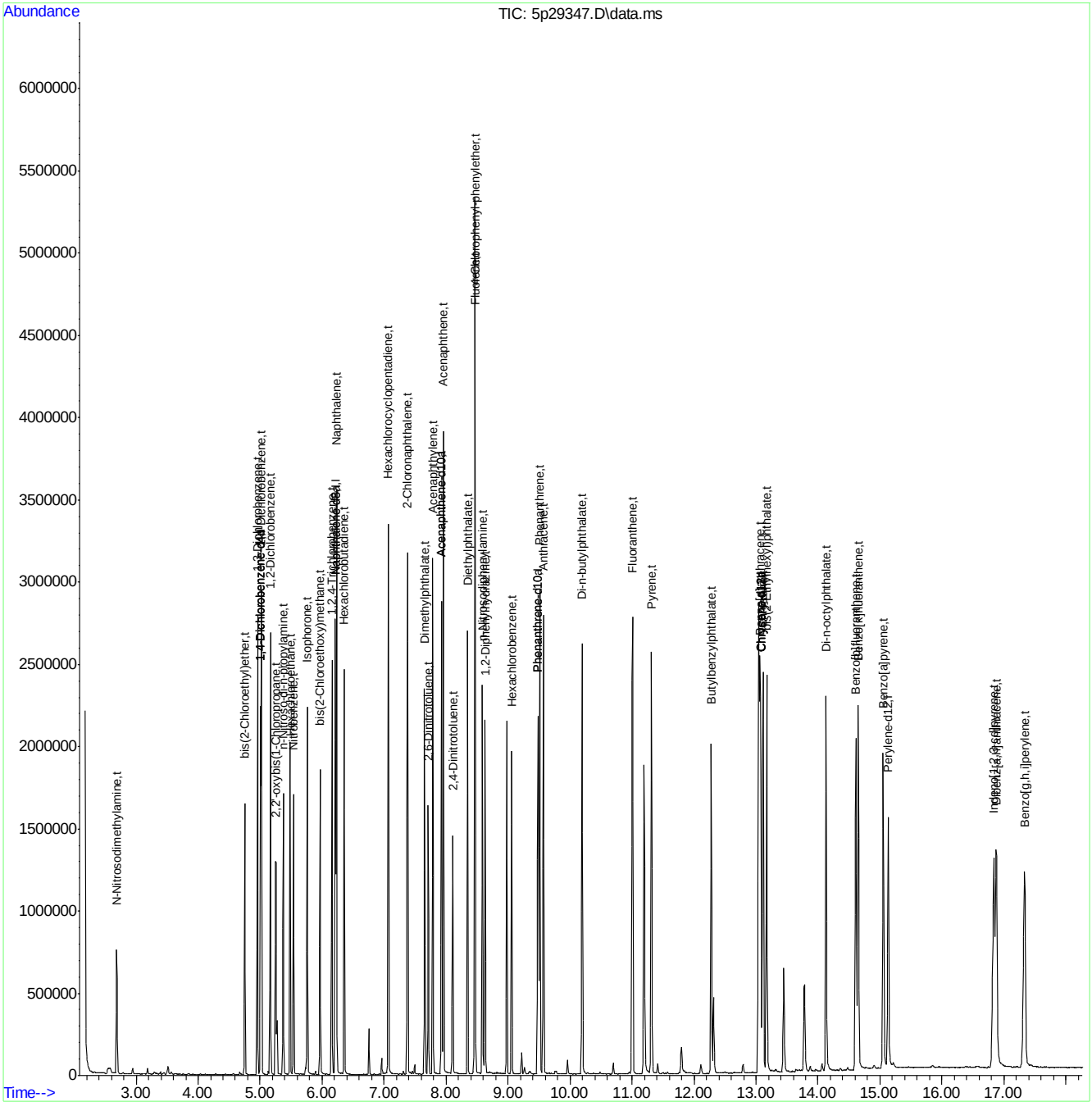
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29347.D
Acq On : 1 Jul 2016 9:43 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 06 12:26:51 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29348a.D
Acq On : 1 Jul 2016 10:09 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:01:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

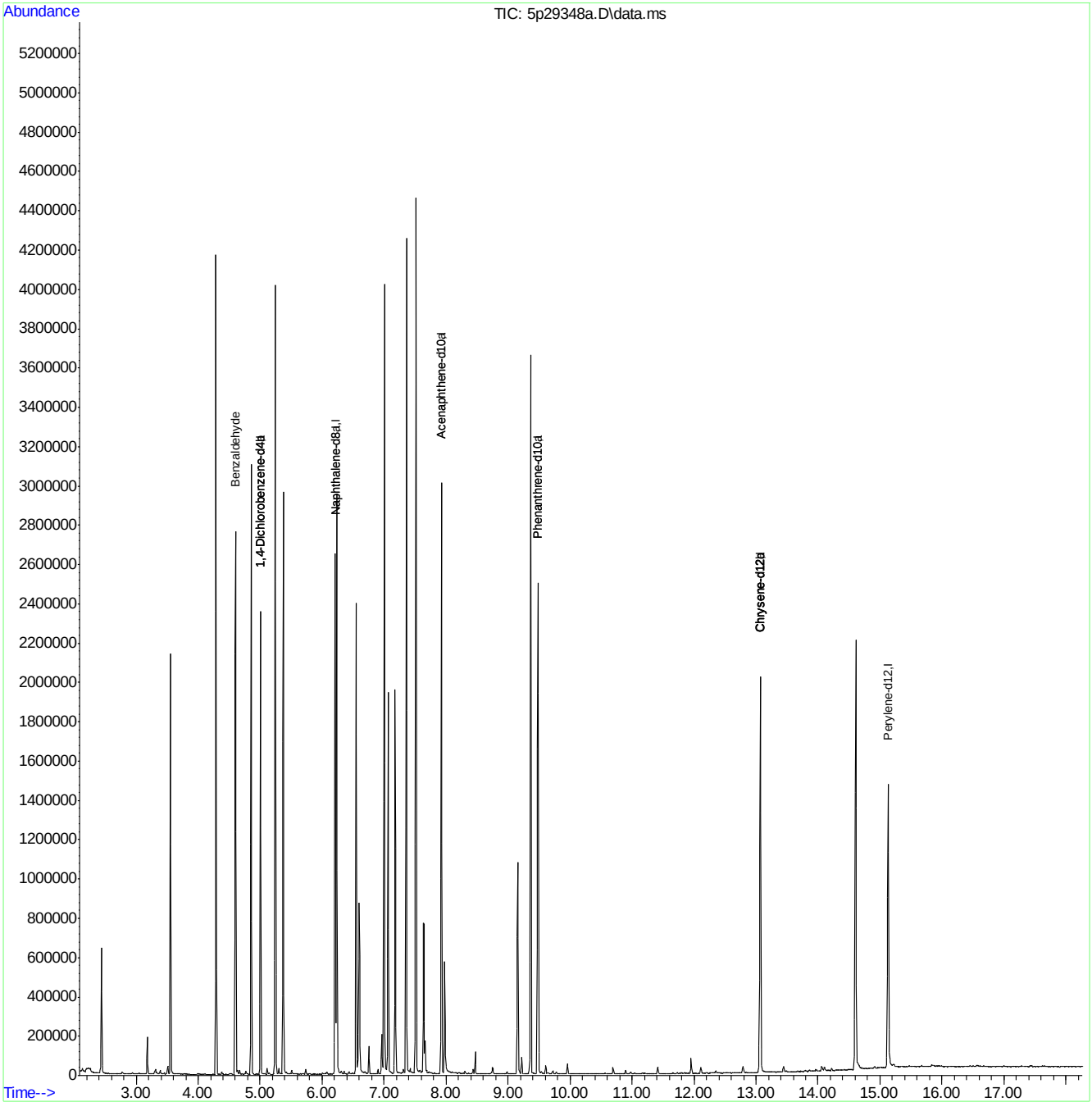
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	341107	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1260750	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	684295	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1003418	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	890489	40.00	ppm	0.00
91) Perylene-d12	15.133	264	686753	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	341107	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	684295	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	890582	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1003418	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1260750	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	890582	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	341107	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	890582	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
102) Benzaldehyde	4.604	105	513837	58.60	ppm	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29348a.D
Acq On : 1 Jul 2016 10:09 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:01:30 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:01:34 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29348.D
Acq On : 1 Jul 2016 10:09 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:01:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	341107	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1260750	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	684295	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1003418	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	890489	40.00	ppm	0.00
91) Perylene-d12	15.133	264	686753	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	341107	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	684295	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	890582	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1003418	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1260750	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	890582	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	341107	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	890582	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
109) o-terphenyl	0.000	230	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.440	88	232138	50.01	ppm	95
6) Indene	5.245	116	1129903	57.97	ppm	98
7) Cumene	4.288	105	1427694	52.85	ppm	99
13) Decane	4.855	43	548159	52.60	ppm	100
18) Acetophenone	5.373	105	811878	54.60	ppm	84
27) Quinoline	6.548	129	856811	41.01	ppm	100
40) 2,3-Dichloroaniline	7.178	161	425002	41.40	ppm	98
41) Caprolactam	6.602	55	201250	49.49	ppm	98
45) 1-Methylnaphthalene	7.002	141	998362	55.83	ppm	99
46) Dimethylnaphthalene	7.515	156	1002062	56.89	ppm	99
53) Biphenyl	7.360	154	1363253	61.15	ppm	100
82) Octadecane	9.363	57	648474	67.47	ppm	98
99) 7,12-Dimethylbenz(a)an...	14.610	256	591160	63.33	ppm	99

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29348.D
Acq On : 1 Jul 2016 10:09 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:01:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

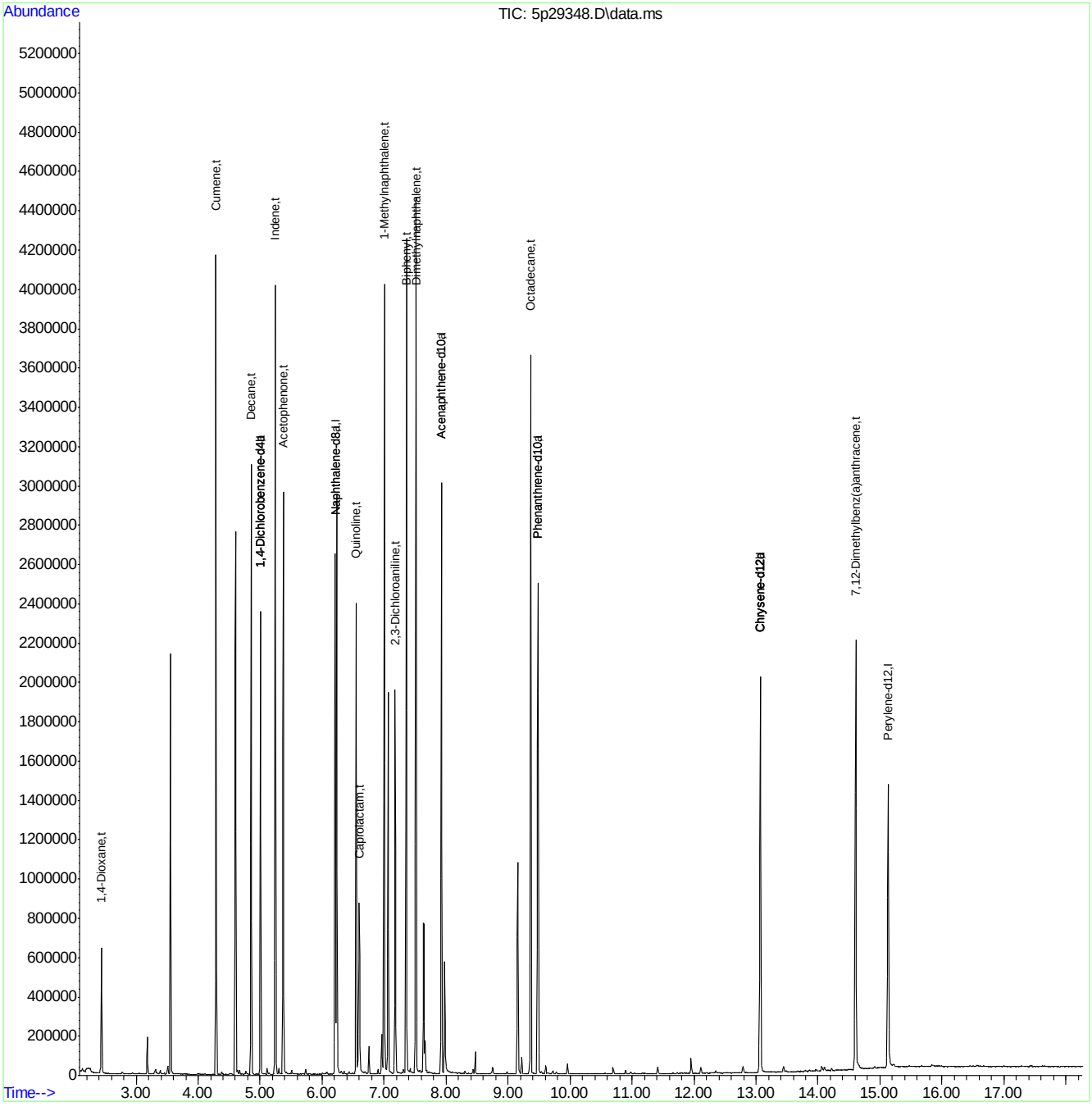
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29348.D
Acq On : 1 Jul 2016 10:09 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 03 16:01:02 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29349.D
Acq On : 1 Jul 2016 10:34 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 16:01:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	344057	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1292259	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	708798	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1115279	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1072165	40.00	ppm	0.00
91) Perylene-d12	15.133	264	999029	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	344057	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	708798	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1072165	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1115279	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1292259	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1072165	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	344057	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1072161	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
88) 3,3'-Dichlorobenzidine	13.039	252	532527	48.12	ppm	97

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

7.6.50

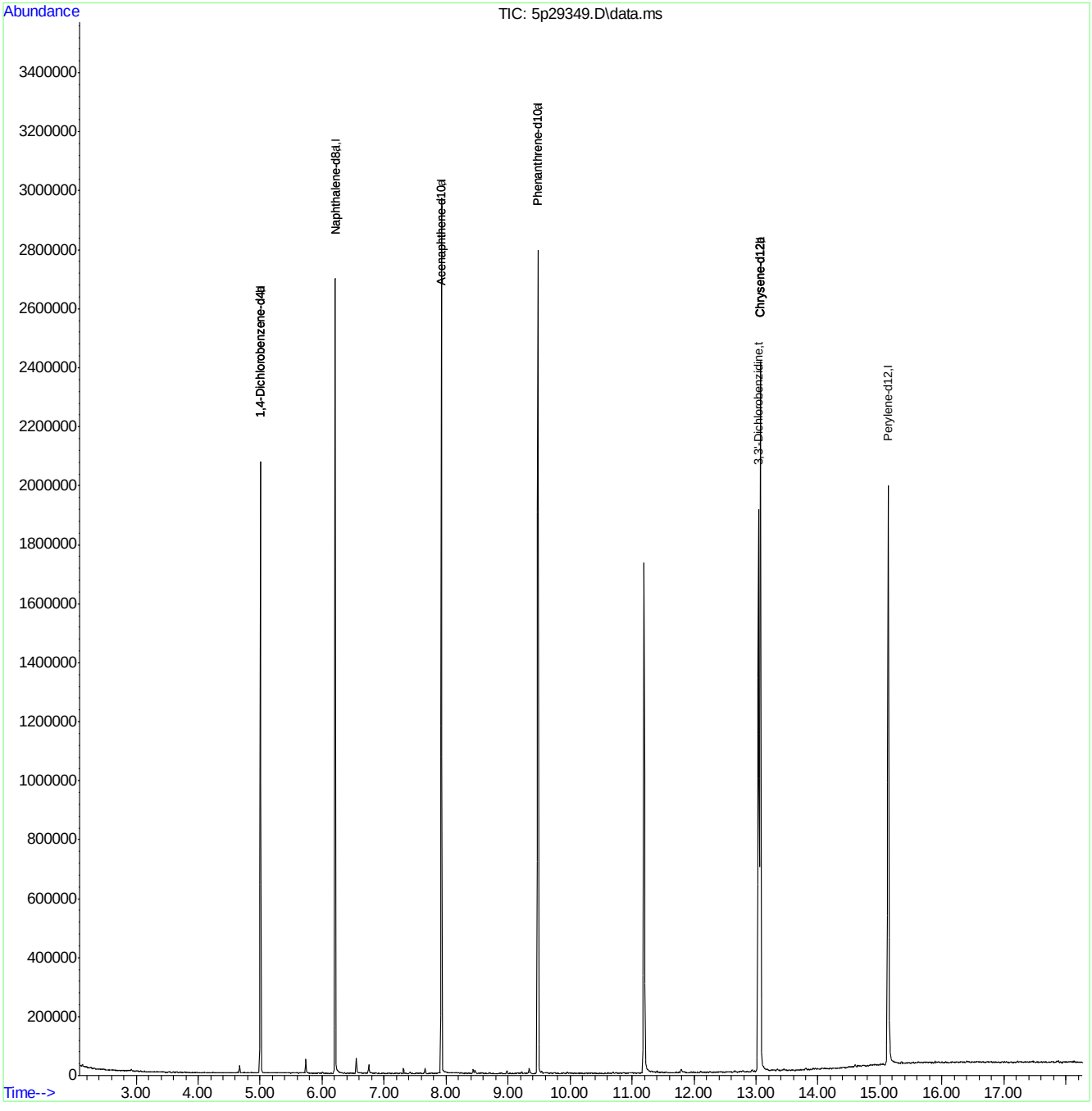
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29349.D
Acq On : 1 Jul 2016 10:34 pm
Operator : ashleyn
Sample : icv1496-50
Misc : op94797,e5p1497
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 16:01:41 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:02:02 2016 RPT1 Page: 2

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29349a.D
Acq On : 1 Jul 2016 10:34 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 16:02:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	344057	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1292259	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	708798	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	1115279	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	1072165	40.00	ppm	0.00
91) Perylene-d12	15.133	264	999029	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	344057	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	708798	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	1072165	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	1115279	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1292259	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	1072165	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	344057	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	1072161	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
106) Benzidine	11.196	184	849806	63.08	ppm	99

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

7.6.51

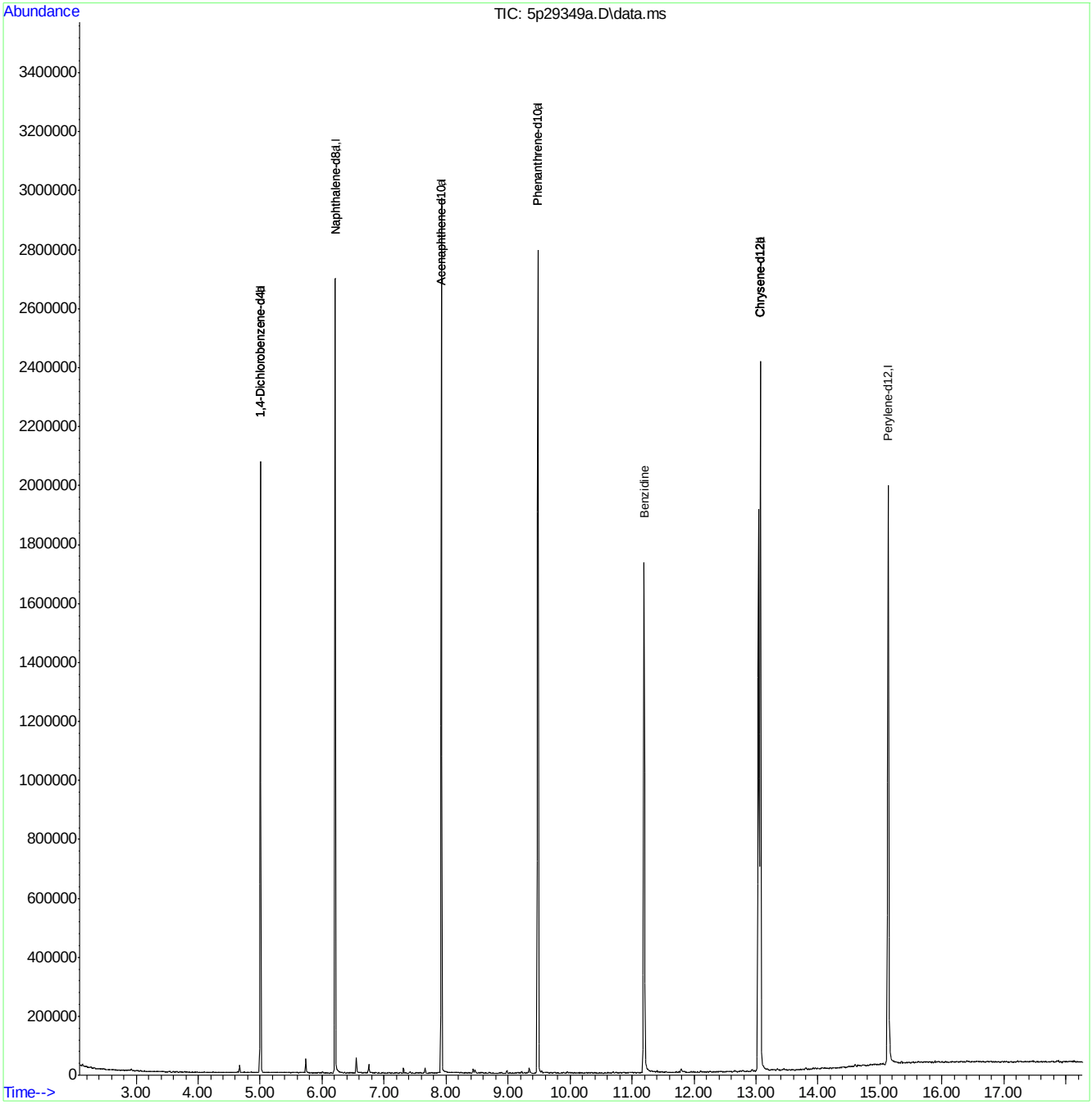
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29349a.D
Acq On : 1 Jul 2016 10:34 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 03 16:02:09 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 16:02:12 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29350.D
Acq On : 1 Jul 2016 11:00 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 03 15:03:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	5.004	152	290113	40.00	ppm	0.00
24) Naphthalene-d8	6.212	136	1115656	40.00	ppm	0.00
47) Acenaphthene-d10	7.926	164	612660	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	922899	40.00	ppm	0.00
83) Chrysene-d12	13.071	240	918177	40.00	ppm	0.00
91) Perylene-d12	15.133	264	823864	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	5.004	152	290113	40.00	ppm	0.00
103) Acenaphthene-d10a	7.926	164	612660	40.00	ppm	0.00
105) Chrysene-d12a	13.071	240	918110	40.00	ppm	0.00
108) Phenanthrene-d10a	9.481	188	922899	40.00	ppm	0.00
111) Naphthalene-d8a	6.212	136	1115656	40.00	ppm	0.00
113) Chrysene-d12b	13.071	240	918110	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	5.004	152	290113	40.00	ppm	0.00
117) Chrysene-d12c	13.071	240	918110	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
112) Hydroquinone	6.601	110	441334	50.97	ppm	99

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

7.6.52

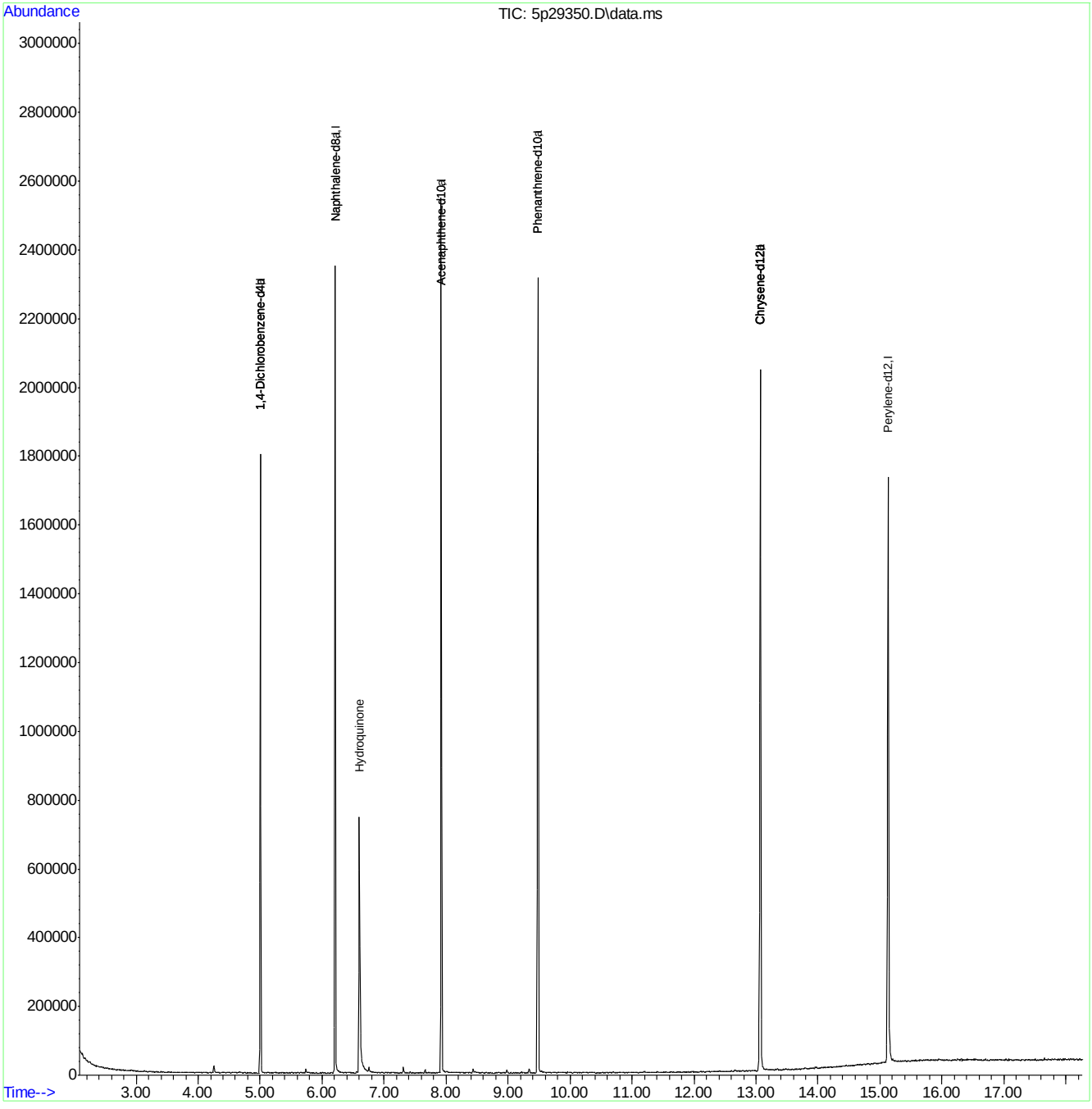
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1497\
Data File : 5p29350.D
Acq On : 1 Jul 2016 11:00 pm
Operator : ashleyn
Sample : icv1497-50
Misc : op94797,e5p1497
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 03 15:03:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 14:48:44 2016
Response via : Initial Calibration



M5P1496.M Sun Jul 03 15:03:38 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29399.D
Acq On : 5 Jul 2016 9:26 am
Operator : ashleyd
Sample : icv1496-50
Misc : op94797,e5p1500
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 12:25:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.994	152	244867	40.00	ppm	-0.01
24) Naphthalene-d8	6.201	136	926417	40.00	ppm	-0.01
47) Acenaphthene-d10	7.921	164	544483	40.00	ppm	0.00
69) Phenanthrene-d10	9.481	188	869084	40.00	ppm	0.00
83) Chrysene-d12	13.087	240	772235	40.00	ppm	0.01
91) Perylene-d12	15.149	264	744630	40.00	ppm	0.01
101) 1,4-Dichlorobenzene-d4a	4.994	152	244867	40.00	ppm	-0.01
103) Acenaphthene-d10a	7.921	164	544483	40.00	ppm	0.00
105) Chrysene-d12a	13.087	240	772235	40.00	ppm	0.02
108) Phenanthrene-d10a	9.481	188	869084	40.00	ppm	0.00
111) Naphthalene-d8a	6.201	136	926417	40.00	ppm	-0.01
113) Chrysene-d12b	13.087	240	772235	40.00	ppm	0.01
115) 1,4-Dichlorobenzene-d4b	4.994	152	244867	40.00	ppm	-0.01
117) Chrysene-d12c	13.087	240	772217	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
74) 4-Bromophenyl-phenylether	8.979	248	203264	53.14	ppm	97

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

7.6.53

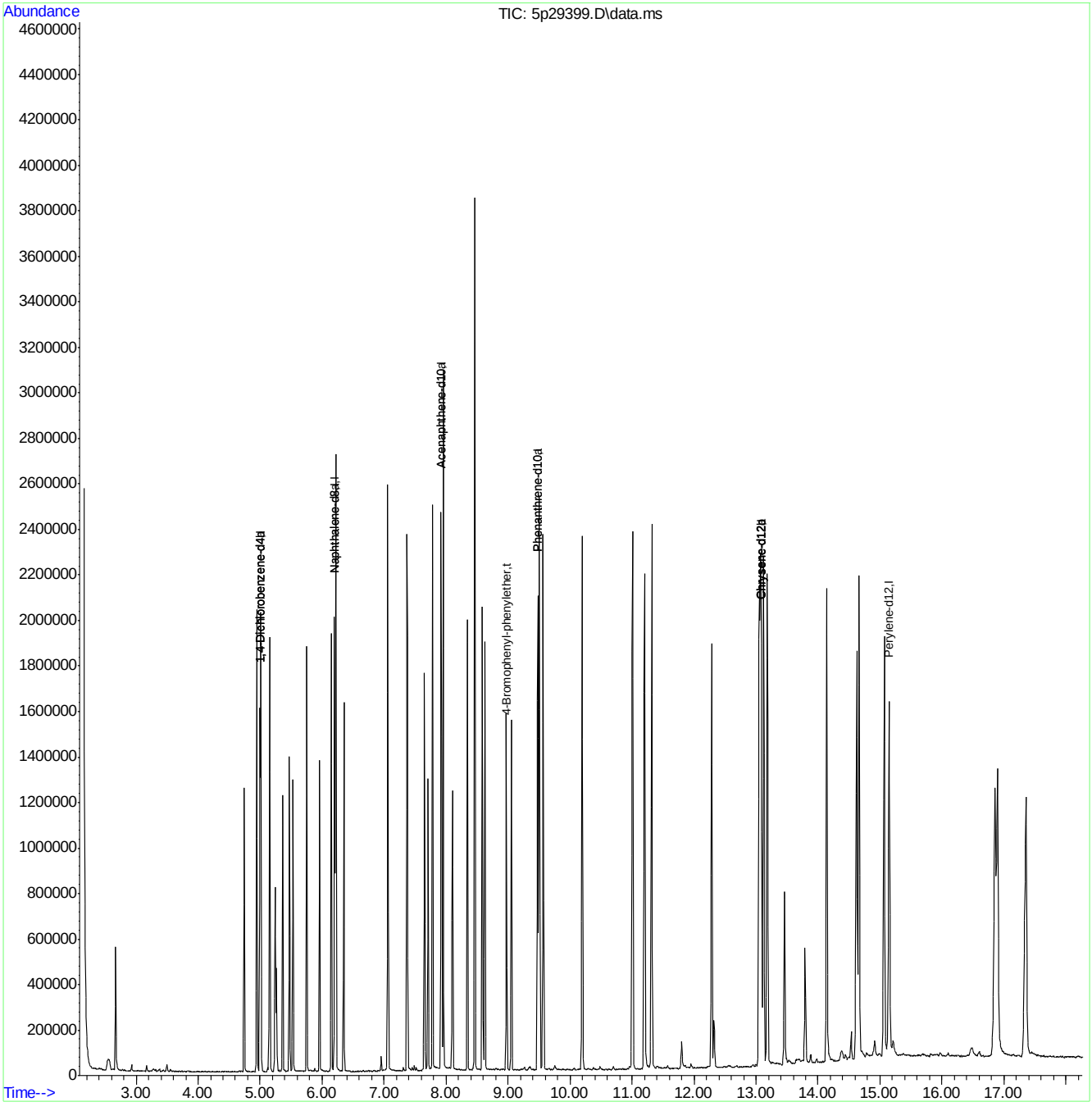
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29399.D
Acq On : 5 Jul 2016 9:26 am
Operator : ashleyd
Sample : icv1496-50
Misc : op94797,e5p1500
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 06 12:25:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration



M5P1496.M Wed Jul 06 12:25:23 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29400.D
Acq On : 5 Jul 2016 9:51 am
Operator : ashleyd
Sample : icv1497-50
Misc : op94797,e5p1500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 12:25:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration

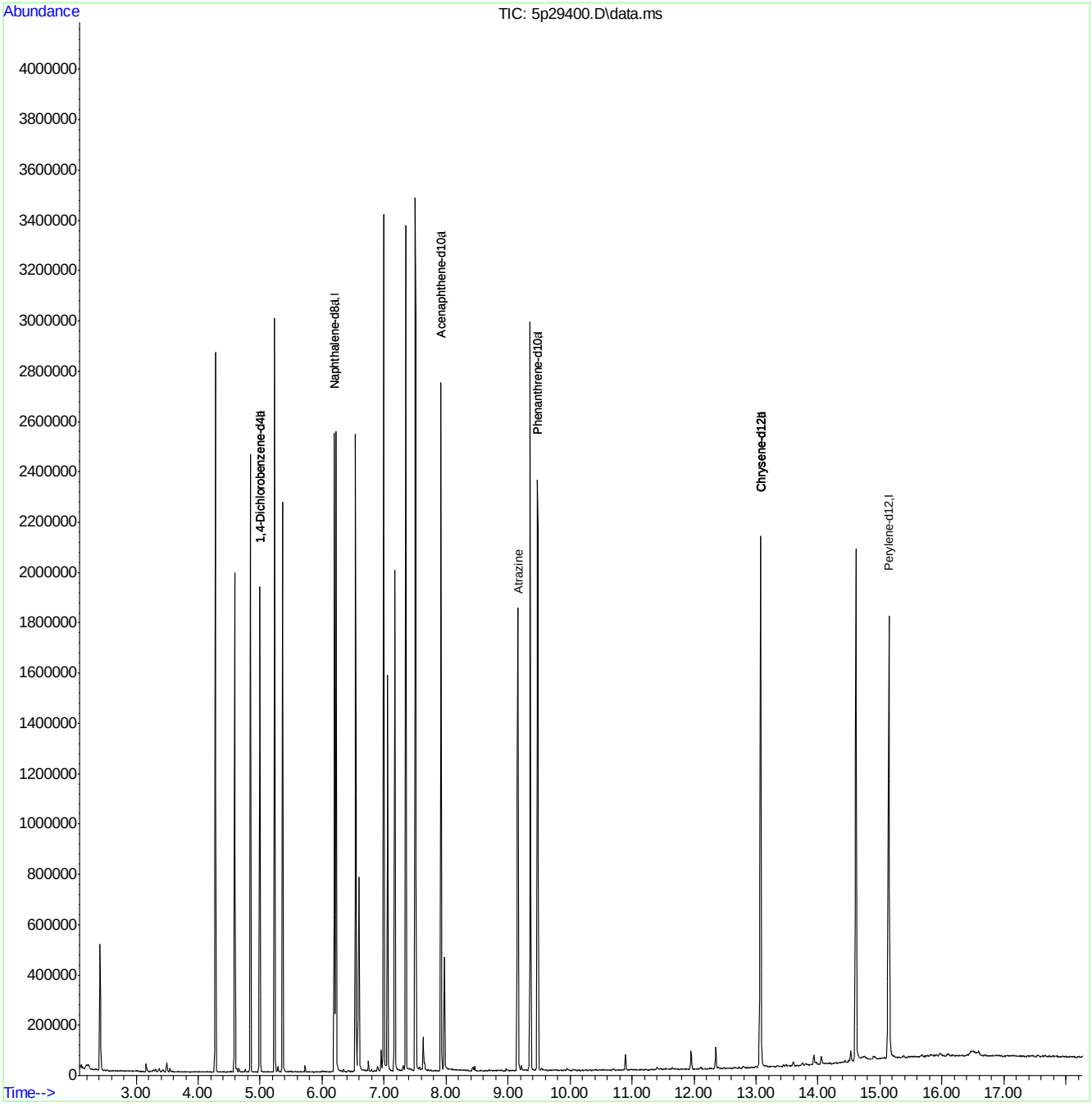
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.993	152	282041	40.00	ppm	-0.01
24) Naphthalene-d8	6.201	136	1101450	40.00	ppm	-0.01
47) Acenaphthene-d10	7.916	164	607755	40.00	ppm	-0.01
69) Phenanthrene-d10	9.476	188	972312	40.00	ppm	-0.01
83) Chrysene-d12	13.076	240	988441	40.00	ppm	0.00
91) Perylene-d12	15.144	264	889322	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.993	152	282041	40.00	ppm	-0.01
103) Acenaphthene-d10a	7.916	164	607755	40.00	ppm	-0.01
105) Chrysene-d12a	13.076	240	988441	40.00	ppm	0.00
108) Phenanthrene-d10a	9.476	188	972312	40.00	ppm	0.00
111) Naphthalene-d8a	6.201	136	1101450	40.00	ppm	-0.01
113) Chrysene-d12b	13.076	240	988441	40.00	ppm	0.00
115) 1,4-Dichlorobenzene-d4b	4.993	152	282041	40.00	ppm	-0.01
117) Chrysene-d12c	13.076	240	988441	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
107) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
109) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
110) Atrazine	9.160	215	127147	48.94	ppm	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1500\
Data File : 5p29400.D
Acq On : 5 Jul 2016 9:51 am
Operator : ashleyd
Sample : icv1497-50
Misc : op94797,e5p1500
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 06 12:25:55 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Sun Jul 03 15:53:32 2016
Response via : Initial Calibration



M5P1496.M Wed Jul 06 12:26:02 2016 RPT1 Page: 2

SGS ACCUTEST JC23654

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/14/16 09:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29599.D
Acq On : 12 Jul 2016 4:19 pm
Operator : robertl1
Sample : cc1496-25
Misc : op95104,e5p1510
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 13 10:00:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 11 23:21:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.908	152	364374	40.00	ppm	-0.03
24) Naphthalene-d8	6.121	136	1557521	40.00	ppm	-0.03
47) Acenaphthene-d10	7.836	164	940162	40.00	ppm	-0.03
69) Phenanthrene-d10	9.385	188	1536125	40.00	ppm	-0.04
83) Chrysene-d12	12.964	240	1185610	40.00	ppm	-0.05
91) Perylene-d12	15.021	264	1061346	40.00	ppm	-0.06
101) 1,4-Dichlorobenzene-d4a	4.908	152	364374	40.00	ppm	-0.03
103) Acenaphthene-d10a	7.836	164	940162	40.00	ppm	-0.03
105) Chrysene-d12a	12.964	240	1185610	40.00	ppm	-0.05
107) Phenanthrene-d10a	9.385	188	1536125	40.00	ppm	-0.04
109) Naphthalene-d8a	6.121	136	1557521	40.00	ppm	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	3.759	112	283738	25.58	ppm	-0.03
Spiked Amount 50.000			Recovery = 51.16%			
8) Phenol-d5	4.593	99	365406	27.13	ppm	0.00
Spiked Amount 50.000			Recovery = 54.26%			
25) Nitrobenzene-d5	5.432	82	321687	28.38	ppm	-0.03
Spiked Amount 50.000			Recovery = 56.76%			
51) 2-Fluorobiphenyl	7.168	172	567323	22.55	ppm	-0.04
Spiked Amount 50.000			Recovery = 45.10%			
73) 2,4,6-Tribromophenol	8.626	330	70165	21.48	ppm	-0.03
Spiked Amount 50.000			Recovery = 42.96%			
85) Terphenyl-d14	11.436	244	531135	23.51	ppm	-0.06
Spiked Amount 50.000			Recovery = 47.02%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.338	88	130790	26.38	ppm	97
3) Pyridine	2.627	79	305413	25.81	ppm	90
4) N-Nitrosodimethylamine	2.589	74	172481	25.90	ppm	65
6) Indene	5.148	116	563812	27.08	ppm	96
7) Cumene	4.192	105	738896	25.60	ppm	98
9) Phenol	4.603	94	432306	26.71	ppm	75
10) Aniline	4.609	93	428919	24.57	ppm #	1
11) bis(2-Chloroethyl)ether	4.662	93	282168	26.81	ppm	95
12) 2-Chlorophenol	4.726	128	325679	25.10	ppm	96
13) Decane	4.758	43	355807	31.96	ppm	86
14) 1,3-Dichlorobenzene	4.860	146	343198	24.17	ppm	99
15) 1,4-Dichlorobenzene	4.924	146	338393	24.40	ppm	100
16) Benzyl alcohol	5.042	108	207456	27.50	ppm	89
17) 1,2-Dichlorobenzene	5.068	146	333715	25.45	ppm	99
18) Acetophenone	5.287	105	449900	28.33	ppm	83
19) 2-Methylphenol	5.159	108	278947	26.24	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.164	45	456399	32.73	ppm	87
21) 3&4-Methylphenol	5.298	108	309330	27.50	ppm	99
22) n-Nitroso-di-n-propyla...	5.287	70	213733	29.92	ppm	85
23) Hexachloroethane	5.383	201	103134	24.58	ppm	81
26) Nitrobenzene	5.448	77	325569	27.89	ppm	92
27) Quinoline	6.468	129	638996	24.76	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29599.D
Acq On : 12 Jul 2016 4:19 pm
Operator : robertl1
Sample : cc1496-25
Misc : op95104,e5p1510
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 13 10:00:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 11 23:21:35 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Isophorone	5.672	82	577289	27.90	ppm	92
29) 2-Nitrophenol	5.752	139	193308	26.36	ppm	88
30) 2,4-Dimethylphenol	5.800	107	300762	24.28	ppm	97
31) Benzoic acid	5.918	105	228330	32.75	ppm	97
32) bis(2-Chloroethoxy)met...	5.880	93	344730	26.02	ppm	98
33) 2,4-Dichlorophenol	5.992	162	260157	24.01	ppm	98
34) 2,6-Dichlorophenol	6.206	162	245913	23.09	ppm	98
35) 1,3,5-Trichlorobenzene	5.763	180	280743	24.06	ppm	98
36) 1,2,4-Trichlorobenzene	6.062	180	248234	22.52	ppm	97
37) 1,2,3-Trichlorobenzene	6.281	180	248212	23.10	ppm	99
38) Naphthalene	6.137	128	891669	24.35	ppm	98
39) 4-Chloroaniline	6.195	127	378091	24.80	ppm	98
40) 2,3-Dichloroaniline	7.088	161	303584	23.94	ppm	98
41) Caprolactam	6.532	55	151439	30.14	ppm	89
42) Hexachlorobutadiene	6.260	225	124569	22.13	ppm	99
43) 4-Chloro-3-methylphenol	6.682	107	273890	25.70	ppm	99
44) 2-Methylnaphthalene	6.810	141	508058	24.73	ppm	97
45) 1-Methylnaphthalene	6.906	141	534122	24.18	ppm	98
46) Dimethylnaphthalene	7.424	156	523651	24.06	ppm	97
48) Hexachlorocyclopentadiene	6.970	237	235474	42.02	ppm	100
49) 2,4,6-Trichlorophenol	7.098	196	163727	23.37	ppm	96
50) 2,4,5-Trichlorophenol	7.141	196	166264	22.93	ppm	99
52) 2-Chloronaphthalene	7.285	162	520794	23.00	ppm	98
53) Biphenyl	7.264	154	720907	23.54	ppm	99
54) 2-Nitroaniline	7.392	65	174057	29.93	ppm	87
55) Dimethylphthalate	7.568	163	598839	25.41	ppm	99
56) Acenaphthylene	7.691	152	908756	25.29	ppm	97
57) 2,6-Dinitrotoluene	7.627	165	139002	26.52	ppm	93
58) 3-Nitroaniline	7.793	138	178086	27.11	ppm	94
59) Acenaphthene	7.868	153	548152	24.77	ppm	93
60) 2,4-Dinitrophenol	7.900	184	113833	47.75	ppm	68
61) 4-Nitrophenol	7.985	109	87574	32.14	ppm	87
62) Dibenzofuran	8.033	168	752475	24.76	ppm	100
63) 2,4-Dinitrotoluene	8.023	165	194919	27.02	ppm	90
64) 2,3,4,6-Tetrachlorophenol	8.167	232	133528	24.58	ppm	99
65) Diethylphthalate	8.258	149	632031	26.86	ppm	97
66) Fluorene	8.375	166	599530	24.70	ppm	99
67) 4-Chlorophenyl-phenyle...	8.370	204	248675	23.88	ppm	95
68) 4-Nitroaniline	8.402	138	170101	25.70	ppm	96
70) 4,6-Dinitro-2-methylph...	8.434	198	84052	22.25	ppm	77
71) n-Nitrosodiphenylamine	8.493	169	400023	23.88	ppm	97
72) 1,2-Diphenylhydrazine	8.535	77	626445	28.90	ppm	98
74) 4-Bromophenyl-phenylether	8.877	248	153103	22.64	ppm	89
75) Hexachlorobenzene	8.957	284	167328	22.96	ppm	82
76) Pentachlorophenol	9.182	266	131066	39.00	ppm	99
77) Phenanthrene	9.411	178	835464	24.28	ppm	99
78) Anthracene	9.470	178	871174	24.56	ppm	99
79) Carbazole	9.663	167	834287	24.16	ppm	98
80) Di-n-butylphthalate	10.090	149	1115643	26.73	ppm	99
81) Fluoranthene	10.897	202	887381	24.25	ppm	97

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29599.D
Acq On : 12 Jul 2016 4:19 pm
Operator : robertl1
Sample : cc1496-25
Misc : op95104,e5p1510
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 13 10:00:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 11 23:21:35 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
82)	Octadecane	9.262	57	454323	30.88	ppm	93
84)	Pyrene	11.201	202	891495	25.55	ppm	98
86)	Butylbenzylphthalate	12.163	149	488758	28.87	ppm	92
87)	Benzo[a]anthracene	12.948	228	759599	23.62	ppm	96
88)	3,3'-Dichlorobenzidine	12.932	252	302084	24.69	ppm	98
89)	Chrysene	13.001	228	738747	23.61	ppm	99
90)	bis(2-Ethylhexyl)phtha...	13.055	149	637136	27.88	ppm	96
92)	Di-n-octylphthalate	14.011	149	1114121	28.89	ppm	95
93)	Benzo[b]fluoranthene	14.503	252	758241	24.17	ppm	98
94)	Benzo[k]fluoranthene	14.540	252	726061	24.24	ppm	95
95)	Benzo[a]pyrene	14.941	252	683674	24.10	ppm	99
96)	Indeno[1,2,3-cd]pyrene	16.677	276	681138m	25.14	ppm	
97)	Dibenz(a,h)acridine	16.287	279	608137	23.81	ppm	98
98)	Dibenz[a,h]anthracene	16.709	278	668259	23.50	ppm	97
99)	7,12-Dimethylbenz(a)an...	14.497	256	325538	22.56	ppm	97
100)	Benzo[g,h,i]perylene	17.158	276	669793	23.49	ppm	99

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

7.6.55

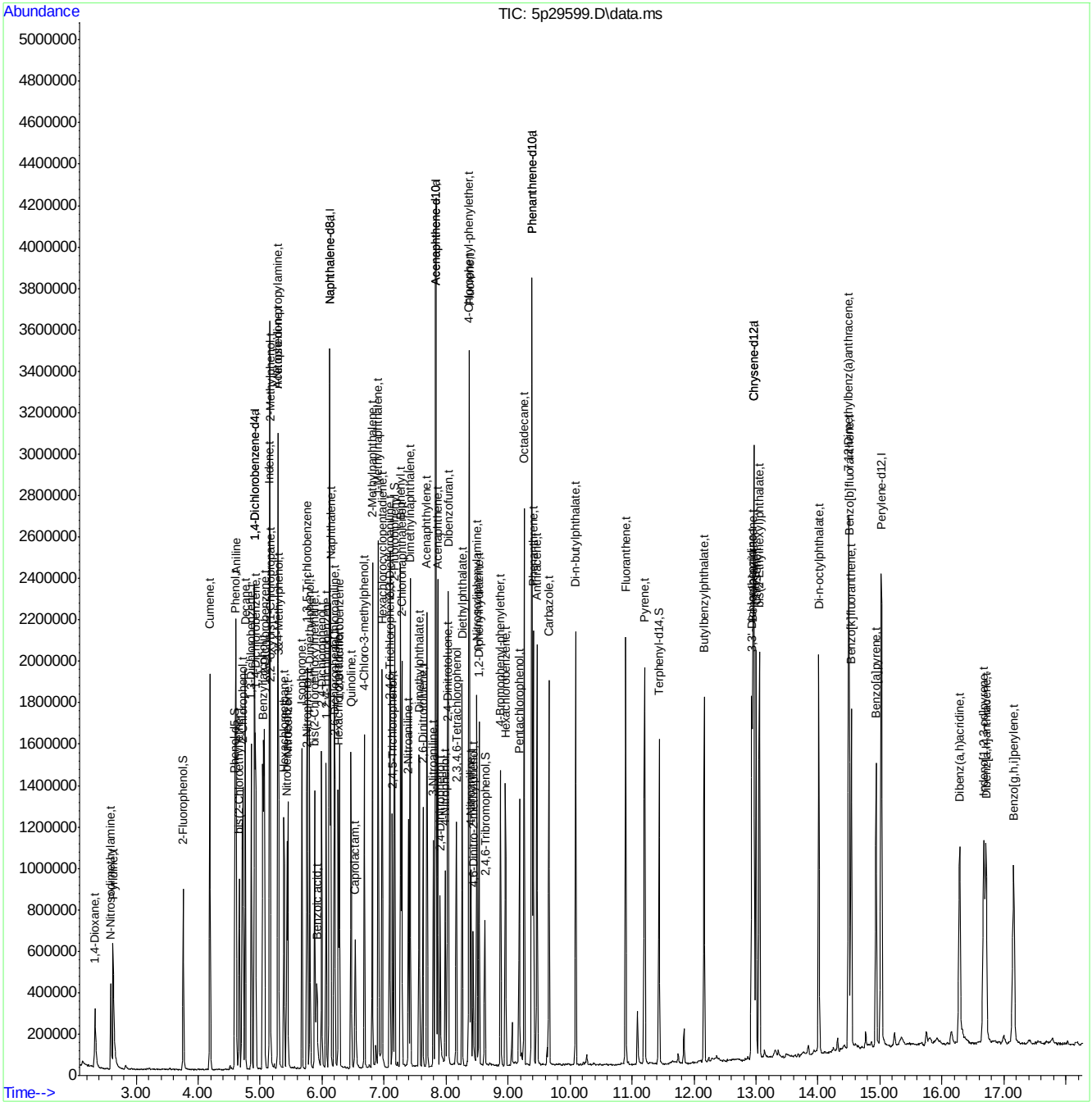
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29599.D
Acq On : 12 Jul 2016 4:19 pm
Operator : robertl1
Sample : cc1496-25
Misc : op95104,e5p1510
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 13 10:00:34 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 11 23:21:35 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Manual Integration Approval Summary

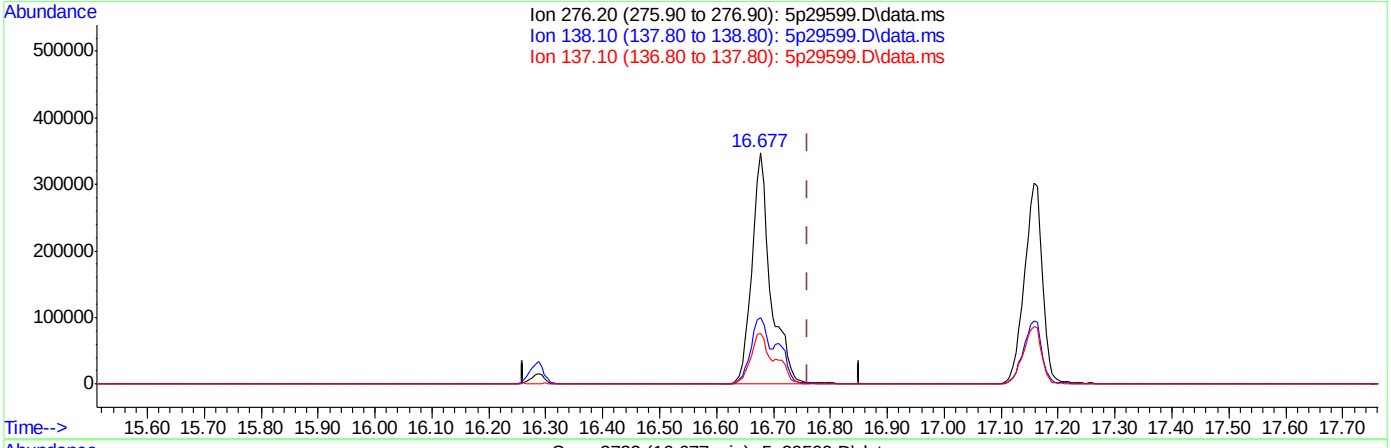
Sample Number:	E5P1510-CC1496	**Method:**	SW846 8270D
Lab FileID:	5P29599.D	**Analyst approved:**	07/13/16 11:11 Ashley Dye
Injection Time:	07/12/16 16:19	**Supervisor approved:**	07/14/16 09:57 Nina Pandya

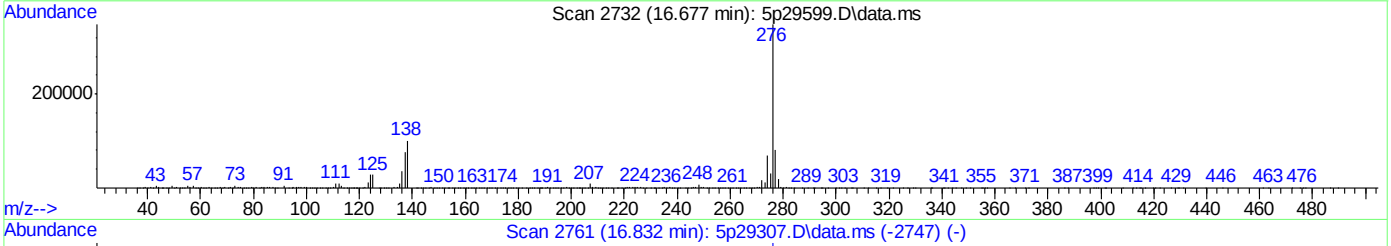
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		16.68	Overlapping peak

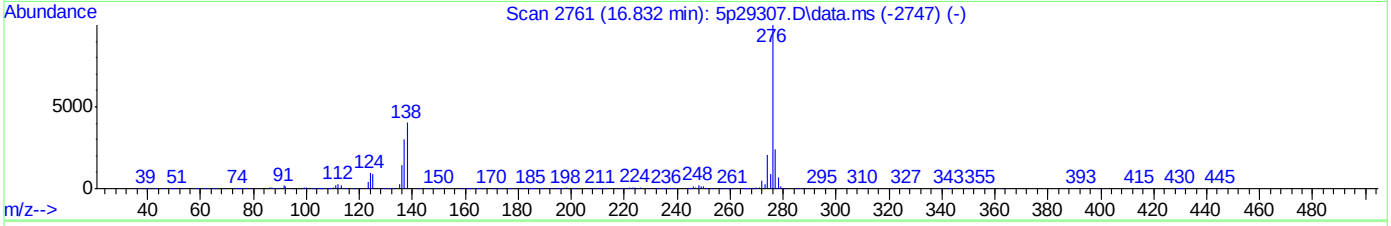
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29599.D
Acq On : 12 Jul 2016 4:19 pm
Operator : robertl1
Sample : cc1496-25
Misc : op95104,e5p1510
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 16:37:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 11 23:21:35 2016
Response via : Initial Calibration







TIC: 5p29599.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.677min (-0.084) 29.16ppm

response 790124

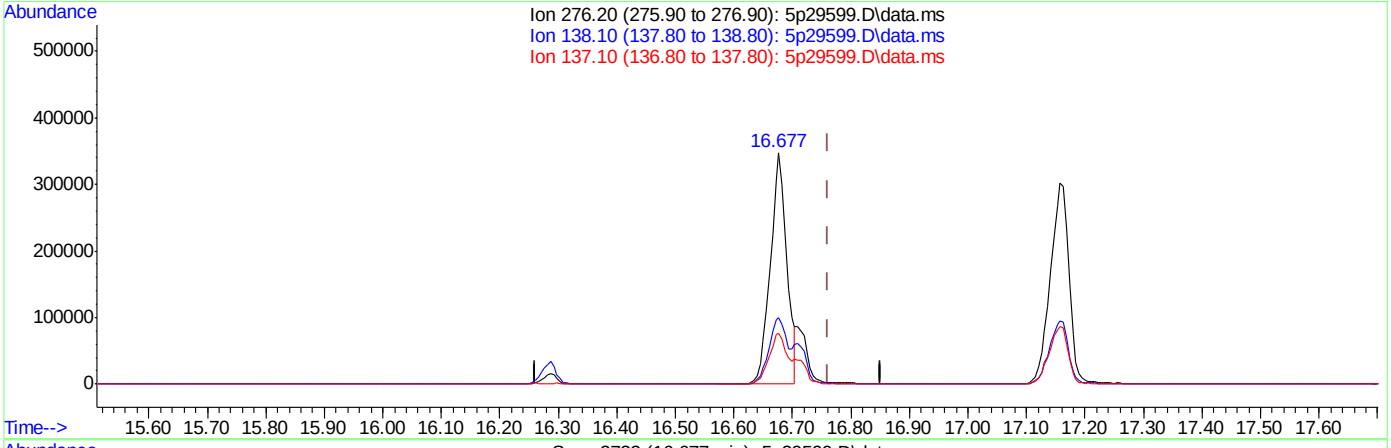
Ion	Exp%	Act%
276.20	100	100
138.10	27.70	28.83
137.10	19.40	21.93
0.00	0.00	0.00

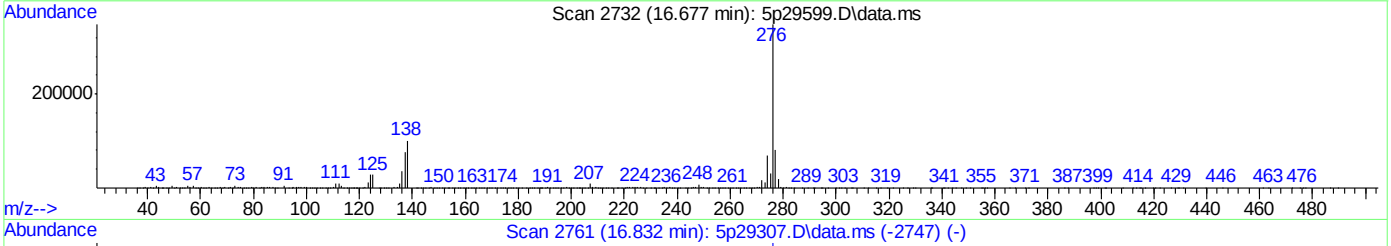
SGS ACCUTEST JC23654

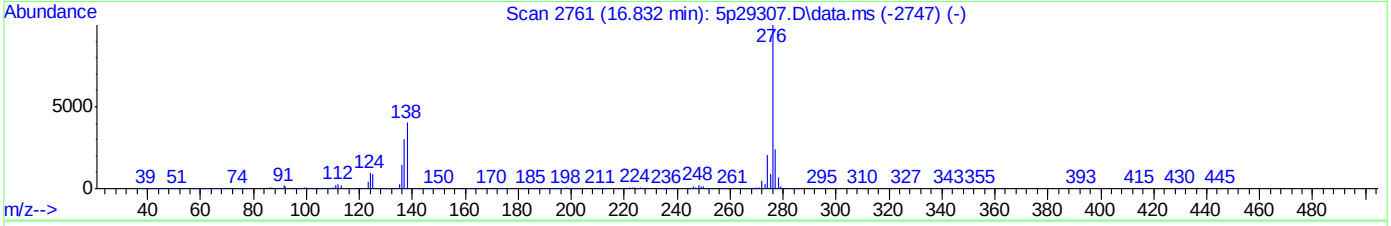
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29599.D
Acq On : 12 Jul 2016 4:19 pm
Operator : robertl1
Sample : cc1496-25
Misc : op95104,e5p1510
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 16:37:59 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 11 23:21:35 2016
Response via : Initial Calibration







TIC: 5p29599.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

16.677min (-0.084) 25.14ppm m

response 681138

Ion	Exp%	Act%
276.20	100	100
138.10	27.70	28.96
137.10	19.40	22.09
0.00	0.00	0.00

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29600.D
Acq On : 12 Jul 2016 4:53 pm
Operator : robertl1
Sample : cc1497-50
Misc : op95104,e5p1510
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 13 10:01:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 11 23:21:35 2016
Response via : Initial Calibration

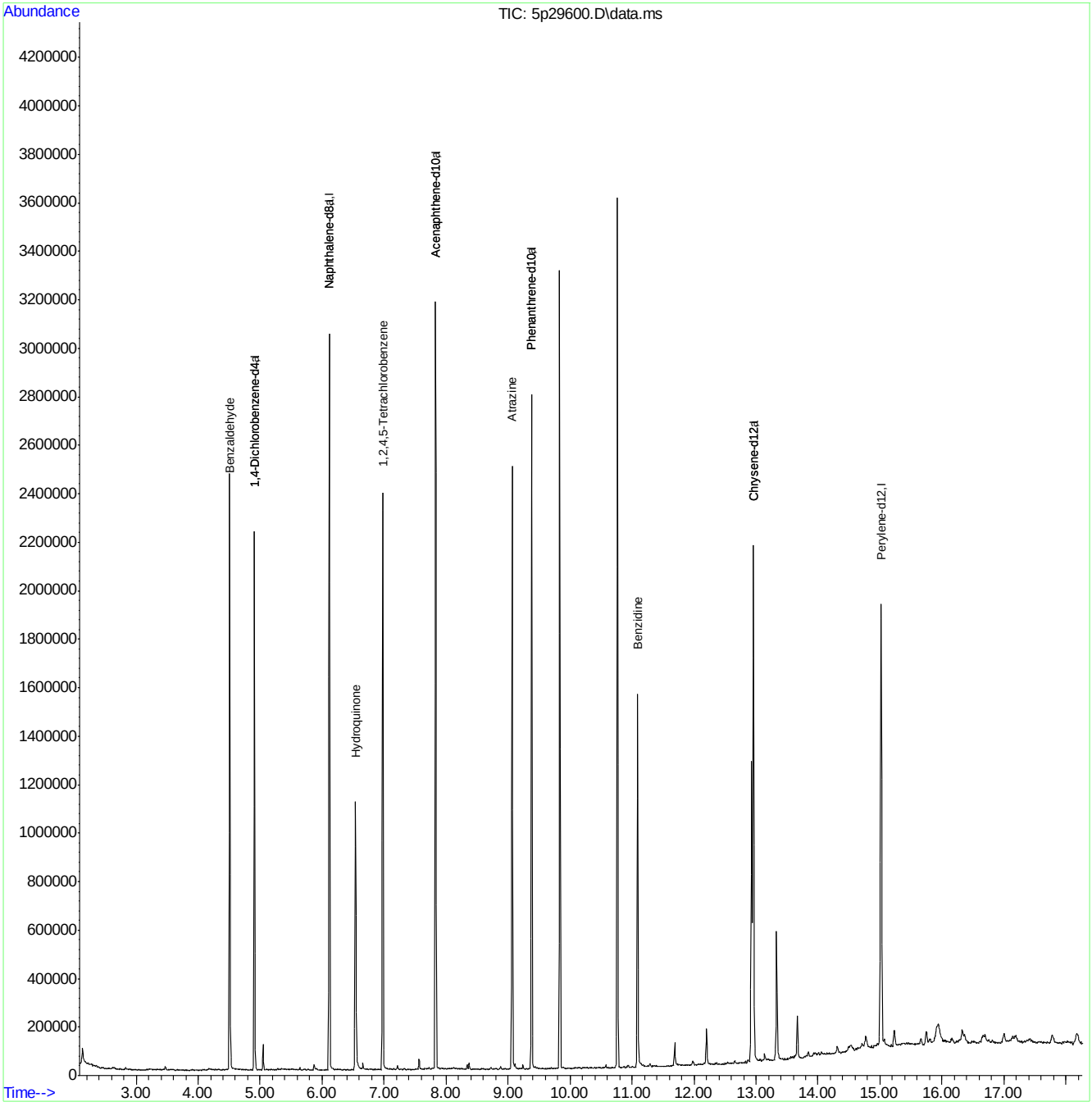
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	4.908	152	312413	40.00 ppm	-0.03
24) Naphthalene-d8	6.115	136	1223608	40.00 ppm	-0.03
47) Acenaphthene-d10	7.830	164	664167	40.00 ppm	-0.04
69) Phenanthrene-d10	9.379	188	1073920	40.00 ppm	-0.04
83) Chrysene-d12	12.959	240	911616	40.00 ppm	-0.06
91) Perylene-d12	15.021	264	822011	40.00 ppm	-0.06
101) 1,4-Dichlorobenzene-d4a	4.908	152	312413	40.00 ppm	-0.03
103) Acenaphthene-d10a	7.830	164	664167	40.00 ppm	-0.04
105) Chrysene-d12a	12.959	240	913233	40.00 ppm	-0.06
107) Phenanthrene-d10a	9.379	188	1073920	40.00 ppm	-0.04
109) Naphthalene-d8a	6.115	136	1223608	40.00 ppm	-0.03
System Monitoring Compounds					
5) 2-Fluorophenol	0.000	112	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
8) Phenol-d5	0.000	99	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
85) Terphenyl-d14	0.000	244	0	0.00 ppm	
Spiked Amount 50.000			Recovery	= 0.00%	
Target Compounds					Qvalue
102) Benzaldehyde	4.513	105	463584	57.72 ppm	97
104) 1,2,4,5-Tetrachloroben...	6.981	216	389519	46.80 ppm	97
106) Benzidine	11.089	184	659129	57.44 ppm	99
108) Atrazine	9.070	215	136810	47.68 ppm	89
110) Hydroquinone	6.537	110	600773	63.26 ppm	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E5P1510\
Data File : 5p29600.D
Acq On : 12 Jul 2016 4:53 pm
Operator : robertl1
Sample : cc1497-50
Misc : op95104,e5p1510
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 13 10:01:27 2016
Quant Method : C:\MSDCHEM\1\METHODS\M5P1496.M
Quant Title : Semi Volatile GC/MS, zb-5msi 30mx .25mmx .25um
QLast Update : Mon Jul 11 23:21:35 2016
Response via : Initial Calibration



M5P1496.M Wed Jul 13 11:11:30 2016 RPT1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125262.D
Acq On : 16 Jun 2016 12:56 pm
Operator : ashleyd
Sample : ic5307-2
Misc : op94571,em5307
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 09:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.879	152	797615	40.00	ppm	0.00
24) Naphthalene-d8	6.054	136	2834494	40.00	ppm	0.00
47) Acenaphthene-d10	8.452	164	1807490	40.00	ppm	0.00
69) Phenanthrene-d10	11.101	188	3249550	40.00	ppm	0.00
83) Chrysene-d12	16.282	240	3397129	40.00	ppm	0.00
91) Perylene-d12	18.904	264	3343846	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.879	152	797615	40.00	ppm	0.00
103) Acenaphthene-d10a	8.452	164	1807490	40.00	ppm	0.00
106) Chrysene-d12a	16.282	240	3397129	40.00	ppm	0.00
109) Phenanthrene-d10a	11.101	188	3249550	40.00	ppm	0.00
111) Naphthalene-d8a	6.054	136	2834494	40.00	ppm	0.00
113) Chrysene-d12b	16.282	240	3397129	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.885	112	50454	2.02	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.04%	
8) Phenol-d5	4.585	99	63502	1.97	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.94%	
25) Nitrobenzene-d5	5.343	82	55464	2.12	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.24%	
51) 2-Fluorobiphenyl	7.416	172	138775	2.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	4.40%	
73) 2,4,6-Tribromophenol	9.814	330	17315	1.84	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.68%	
85) Terphenyl-d14	14.279	244	159622	1.99	ppm	0.00
Spiked Amount 50.000			Recovery	=	3.98%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.454	88	28421	2.39	ppm	95
3) Pyridine	2.796	79	48446	1.86	ppm	85
4) N-Nitrosodimethylamine	2.742	42	27799	2.13	ppm	97
6) Indene	5.092	116	99830	2.23	ppm	97
7) Cumene	4.275	105	134520	2.21	ppm	94
9) Phenol	4.596	94	74843	2.12	ppm	96
10) Aniline	4.622	93	81639	2.27	ppm	95
11) bis(2-Chloroethyl)ether	4.665	93	51862	2.12	ppm	98
12) 2-Chlorophenol	4.713	128	62154	2.22	ppm	94
13) Decane	4.751	43	55980	2.28	ppm	98
14) 1,3-Dichlorobenzene	4.836	146	70331	2.22	ppm	99
15) 1,4-Dichlorobenzene	4.890	146	67922	2.24	ppm	98
16) Benzyl alcohol	4.986	108	33062	1.97	ppm	97
17) 1,2-Dichlorobenzene	5.018	146	66377	2.29	ppm	99
18) Acetophenone	5.205	105	75038	2.27	ppm	98
19) 2-Methylphenol	5.076	108	51211	2.14	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.098	121	18792	2.22	ppm #	76

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125262.D
Acq On : 16 Jun 2016 12:56 pm
Operator : ashleyd
Sample : ic5307-2
Misc : op94571,em5307
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 09:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.199	108	52679	2.07	ppm		94
22) n-Nitroso-di-n-propyla...	5.205	70	36496	2.10	ppm		94
23) Hexachloroethane	5.311	201	25428	2.23	ppm		94
26) Nitrobenzene	5.360	77	54920	2.12	ppm		96
27) Quinoline	6.454	129	120920	2.17	ppm		97
28) Isophorone	5.579	82	93988	2.01	ppm		90
29) 2-Nitrophenol	5.659	139	29934	2.08	ppm		89
30) 2,4-Dimethylphenol	5.691	107	50369	2.27	ppm		93
32) bis(2-Chloroethoxy)met...	5.781	93	59542	2.14	ppm		97
33) 2,4-Dichlorophenol	5.899	162	49451	2.15	ppm		95
34) 2,6-Dichlorophenol	6.139	162	50249	2.29	ppm		94
35) 1,3,5-Trichlorobenzene	5.669	180	64928	2.37	ppm		89
36) 1,2,4-Trichlorobenzene	5.990	180	61615	2.29	ppm		92
37) 1,2,3-Trichlorobenzene	6.235	180	60506	2.36	ppm		95
38) Naphthalene	6.075	128	173183	2.26	ppm		99
39) 4-Chloroaniline	6.129	127	72827	2.24	ppm		95
40) 2,3-Dichloroaniline	7.288	161	65052	2.22	ppm		98
41) Caprolactam	6.497	55	18952	1.88	ppm	#	84
42) Hexachlorobutadiene	6.219	225	33378	2.35	ppm		96
43) 4-Chloro-3-methylphenol	6.700	107	47564	2.18	ppm		89
44) 2-Methylnaphthalene	6.903	141	104344	2.23	ppm		98
45) 1-Methylnaphthalene	7.037	142	126019	2.25	ppm		99
46) Dimethylnaphthalene	7.795	156	114924	2.26	ppm		97
48) Hexachlorocyclopentadiene	7.127	237	53977	3.64	ppm		98
49) 2,4,6-Trichlorophenol	7.293	196	37489	2.21	ppm		80
50) 2,4,5-Trichlorophenol	7.341	196	40728	2.16	ppm		90
52) 2-Chloronaphthalene	7.581	162	119320	2.23	ppm		98
53) Biphenyl	7.560	154	160646	2.28	ppm		99
54) 2-Nitroaniline	7.736	65	26137	1.92	ppm		93
55) Dimethylphthalate	8.041	163	131925	2.13	ppm		99
56) Acenaphthylene	8.217	152	188682	2.16	ppm		98
57) 2,6-Dinitrotoluene	8.121	165	24451	1.85	ppm		91
58) 3-Nitroaniline	8.388	138	27216	1.79	ppm		98
59) Acenaphthene	8.505	153	118926	2.18	ppm		98
60) 2,4-Dinitrophenol	8.575	184	6766	8.26	ppm		79
61) 4-Nitrophenol	8.708	109	10907	1.72	ppm		84
62) Dibenzofuran	8.794	168	173367	2.26	ppm		98
63) 2,4-Dinitrotoluene	8.788	165	34685	2.01	ppm		93
64) 2,3,4,6-Tetrachlorophenol	9.023	232	25597	1.83	ppm		89
65) Diethylphthalate	9.253	149	128054	2.19	ppm		93
66) Fluorene	9.387	166	140650	2.17	ppm		98
67) 4-Chlorophenyl-phenyle...	9.419	204	70200	2.25	ppm		91
68) 4-Nitroaniline	9.435	138	26449	1.78	ppm		93
70) 4,6-Dinitro-2-methylph...	9.504	198	7908	3.87	ppm		76
71) n-Nitrosodiphenylamine	9.627	169	92088	1.99	ppm		96
72) 1,2-Diphenylhydrazine	9.696	77	106280	1.95	ppm		94
74) 4-Bromophenyl-phenylether	10.300	248	40845	2.10	ppm		98
75) Hexachlorobenzene	10.391	284	47541	2.17	ppm		97
76) Pentachlorophenol	10.775	266	8759	8.78	ppm		97
77) Phenanthrene	11.139	178	203143	2.15	ppm		96

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125262.D
Acq On : 16 Jun 2016 12:56 pm
Operator : ashleyd
Sample : ic5307-2
Misc : op94571,em5307
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 09:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Anthracene	11.235	178	194460	2.04	ppm	98
79)	Carbazole	11.571	167	191422	2.09	ppm	98
80)	Di-n-butylphthalate	12.383	149	203073	1.99	ppm	99
81)	Fluoranthene	13.441	202	229143	2.09	ppm	100
82)	Octadecane	11.085	57	63004	1.98	ppm	94
84)	Pyrene	13.868	202	242450	2.02	ppm	99
86)	Butylbenzylphthalate	15.331	149	88002	1.84	ppm	99
87)	Benzo[a]anthracene	16.261	228	222097	2.08	ppm	99
88)	3,3'-Dichlorobenzidine	16.282	252	68526	1.88	ppm	95
89)	Chrysene	16.325	228	221775	2.09	ppm	98
90)	bis(2-Ethylhexyl)phtha...	16.554	149	113708	1.79	ppm	95
92)	Di-n-octylphthalate	17.778	149	190555	1.86	ppm	96
93)	Benzo[b]fluoranthene	18.253	252	239081	2.24	ppm	96
94)	Benzo[k]fluoranthene	18.301	252	221566	2.19	ppm	98
95)	Benzo[a]pyrene	18.798	252	213810	2.21	ppm	98
96)	Indeno[1,2,3-cd]pyrene	20.672	276	192598	2.07	ppm	98
97)	Dibenz(a,h)acridine	20.288	279	175054	2.07	ppm	97
98)	Dibenz[a,h]anthracene	20.726	278	203531	2.08	ppm	98
99)	7,12-Dimethylbenz(a)an...	18.264	256	94367	2.29	ppm	96
100)	Benzo[g,h,i]perylene	21.158	276	216532	2.14	ppm	95

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

76.57

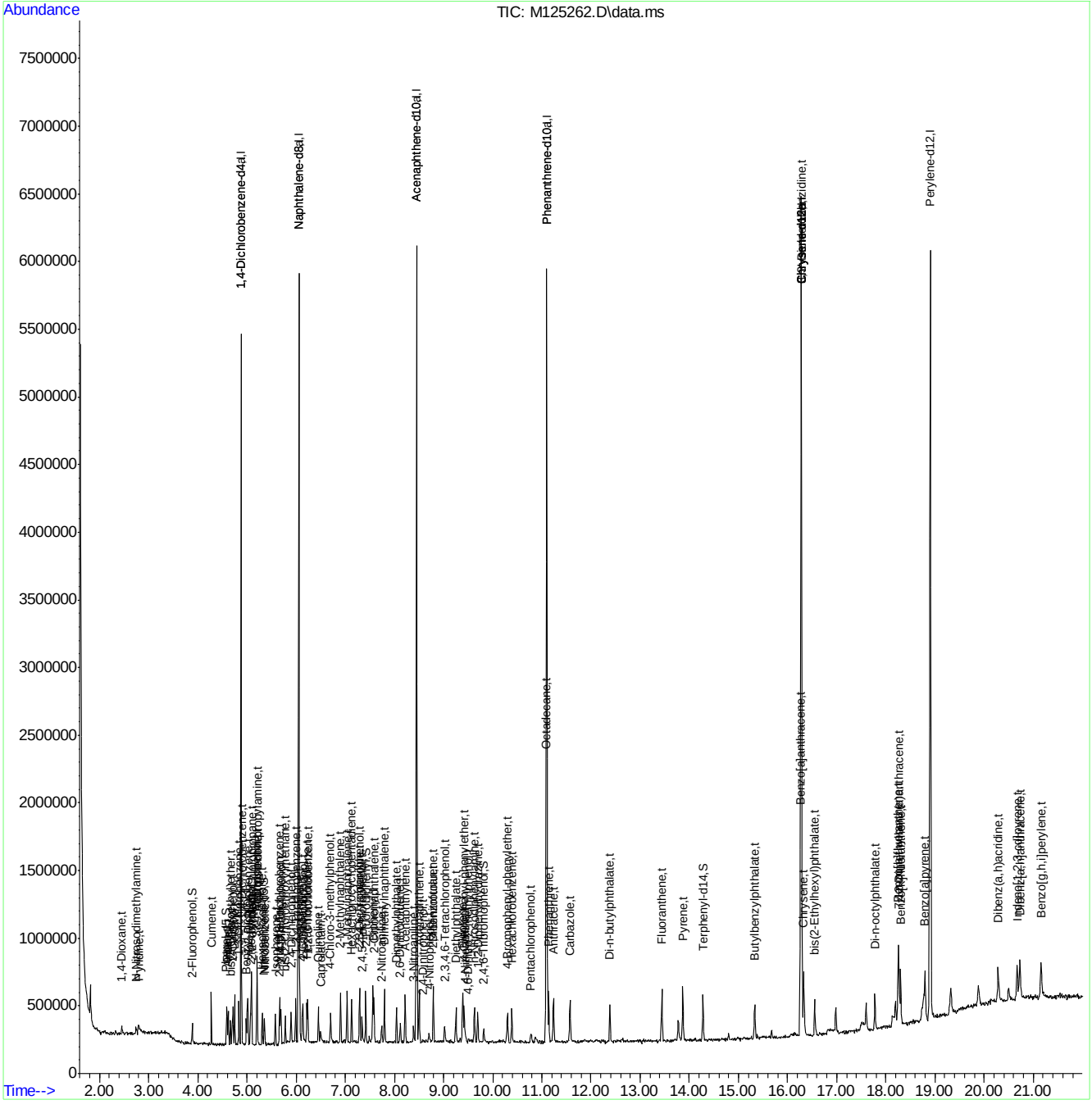
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125262.D
Acq On : 16 Jun 2016 12:56 pm
Operator : ashleyd
Sample : ic5307-2
Misc : op94571,em5307
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 09:36:21 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration



MM5307.M Mon Jun 20 09:41:16 2016 MSM

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SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125263.D
Acq On : 16 Jun 2016 1:25 pm
Operator : ashleyd
Sample : ic5307-1
Misc : op94571,em5307
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 09:42:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:37:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.878	152	880452	40.00	ppm	0.00
24) Naphthalene-d8	6.053	136	3144618	40.00	ppm	0.00
47) Acenaphthene-d10	8.451	164	1957640	40.00	ppm	0.00
69) Phenanthrene-d10	11.101	188	3540876	40.00	ppm	0.00
83) Chrysene-d12	16.281	240	3764659	40.00	ppm	0.00
91) Perylene-d12	18.909	264	3682484	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.878	152	880452	40.00	ppm	0.00
103) Acenaphthene-d10a	8.451	164	1957640	40.00	ppm	0.00
106) Chrysene-d12a	16.281	240	3764659	40.00	ppm	0.00
109) Phenanthrene-d10a	11.101	188	3540876	40.00	ppm	0.00
111) Naphthalene-d8a	6.053	136	3144618	40.00	ppm	0.00
113) Chrysene-d12b	16.281	240	3764659	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.885	112	29137	1.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.10%	
8) Phenol-d5	4.590	99	37529	1.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.10%	
25) Nitrobenzene-d5	5.343	82	31487	1.08	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.16%	
51) 2-Fluorobiphenyl	7.415	172	81938	1.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.40%	
73) 2,4,6-Tribromophenol	9.829	330	9368	0.91	ppm	0.01
Spiked Amount 50.000			Recovery	=	1.82%	
85) Terphenyl-d14	14.278	244	94234	1.06	ppm	0.00
Spiked Amount 50.000			Recovery	=	2.12%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.459	88	15598	1.19	ppm	95
3) Pyridine	2.827	79	24546	0.85	ppm	92
4) N-Nitrosodimethylamine	2.747	42	16414	1.14	ppm	96
6) Indene	5.092	116	59468	1.21	ppm	94
7) Cumene	4.275	105	77645	1.16	ppm	98
9) Phenol	4.600	94	41576	1.07	ppm	92
10) Aniline	4.622	93	44666	1.13	ppm	69
11) bis(2-Chloroethyl)ether	4.665	93	33633	1.25	ppm	96
12) 2-Chlorophenol	4.718	128	35184	1.14	ppm	91
13) Decane	4.750	43	31406	1.16	ppm	93
14) 1,3-Dichlorobenzene	4.835	146	39711	1.14	ppm	97
15) 1,4-Dichlorobenzene	4.889	146	38759	1.16	ppm	94
16) Benzyl alcohol	4.990	108	19057	1.03	ppm	94
17) 1,2-Dichlorobenzene	5.017	146	38182	1.19	ppm	97
18) Acetophenone	5.209	105	42279	1.16	ppm	94
19) 2-Methylphenol	5.076	108	27620	1.04	ppm	93
20) 2,2'-oxybis(1-Chloropr...	5.097	121	10504	1.12	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125263.D
Acq On : 16 Jun 2016 1:25 pm
Operator : ashleyd
Sample : ic5307-1
Misc : op94571,em5307
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 09:42:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:37:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.204	108	32563	1.16	ppm	#	79
22) n-Nitroso-di-n-propyla...	5.204	70	21678	1.13	ppm		84
23) Hexachloroethane	5.311	201	14053	1.12	ppm		92
26) Nitrobenzene	5.359	77	32672	1.13	ppm		100
27) Quinoline	6.454	129	68325	1.10	ppm		99
28) Isophorone	5.578	82	60642	1.17	ppm		92
29) 2-Nitrophenol	5.663	139	15441	0.97	ppm		88
30) 2,4-Dimethylphenol	5.690	107	25470	1.04	ppm		89
32) bis(2-Chloroethoxy)met...	5.781	93	33994	1.10	ppm		87
33) 2,4-Dichlorophenol	5.898	162	27580	1.08	ppm		93
34) 2,6-Dichlorophenol	6.139	162	26947	1.11	ppm		99
35) 1,3,5-Trichlorobenzene	5.674	180	37699	1.24	ppm		98
36) 1,2,4-Trichlorobenzene	5.989	180	35426	1.19	ppm		97
37) 1,2,3-Trichlorobenzene	6.235	180	34783	1.22	ppm		93
38) Naphthalene	6.075	128	101897	1.20	ppm		98
39) 4-Chloroaniline	6.128	127	41498	1.15	ppm		96
40) 2,3-Dichloroaniline	7.287	161	38661	1.19	ppm		86
41) Caprolactam	6.507	55	10969	0.98	ppm		97
42) Hexachlorobutadiene	6.219	225	18375	1.16	ppm		96
43) 4-Chloro-3-methylphenol	6.705	107	26198	1.08	ppm		90
44) 2-Methylnaphthalene	6.902	141	61365	1.18	ppm		93
45) 1-Methylnaphthalene	7.036	142	74473	1.20	ppm		94
46) Dimethylnaphthalene	7.794	156	67047	1.19	ppm		98
48) Hexachlorocyclopentadiene	7.132	237	28591	1.78	ppm		89
49) 2,4,6-Trichlorophenol	7.298	196	20950	1.14	ppm		90
50) 2,4,5-Trichlorophenol	7.346	196	20047	0.98	ppm		80
52) 2-Chloronaphthalene	7.581	162	71670	1.24	ppm		98
53) Biphenyl	7.559	154	91006	1.19	ppm		96
54) 2-Nitroaniline	7.741	65	12838	0.87	ppm		98
55) Dimethylphthalate	8.040	163	81273	1.21	ppm		99
56) Acenaphthylene	8.216	152	107876	1.14	ppm		97
57) 2,6-Dinitrotoluene	8.120	165	12622	0.88	ppm		83
58) 3-Nitroaniline	8.387	138	13926	0.85	ppm		98
59) Acenaphthene	8.505	153	71001	1.20	ppm		95
62) Dibenzofuran	8.799	168	99074	1.19	ppm		94
63) 2,4-Dinitrotoluene	8.788	165	17144	0.92	ppm		99
64) 2,3,4,6-Tetrachlorophenol	9.028	232	12506	0.82	ppm		78
65) Diethylphthalate	9.253	149	68566	1.08	ppm		93
66) Fluorene	9.386	166	82374	1.17	ppm		93
67) 4-Chlorophenyl-phenyle...	9.418	204	40785	1.20	ppm		94
68) 4-Nitroaniline	9.434	138	14155	0.88	ppm		91
71) n-Nitrosodiphenylamine	9.632	169	57299	1.14	ppm		97
72) 1,2-Diphenylhydrazine	9.696	77	58182	0.98	ppm		95
74) 4-Bromophenyl-phenylether	10.305	248	23683	1.12	ppm		85
75) Hexachlorobenzene	10.390	284	28557	1.20	ppm		97
77) Phenanthrene	11.143	178	118384	1.15	ppm		98
78) Anthracene	11.239	178	116004	1.12	ppm		95
79) Carbazole	11.576	167	108223	1.08	ppm		97
80) Di-n-butylphthalate	12.382	149	110491	1.00	ppm		100
81) Fluoranthene	13.440	202	126904	1.06	ppm		97

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125263.D
Acq On : 16 Jun 2016 1:25 pm
Operator : ashleyd
Sample : ic5307-1
Misc : op94571,em5307
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 09:42:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:37:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
82) Octadecane	11.085	57	37591	1.09 ppm	99
84) Pyrene	13.867	202	143003	1.08 ppm	96
86) Butylbenzylphthalate	15.336	149	45411	0.86 ppm	90
87) Benzo[a]anthracene	16.260	228	128842	1.09 ppm	94
88) 3,3'-Dichlorobenzidine	16.281	252	37226	0.92 ppm	81
89) Chrysene	16.324	228	131814	1.12 ppm	96
90) bis(2-Ethylhexyl)phtha...	16.554	149	63063	0.90 ppm	91
92) Di-n-octylphthalate	17.777	149	110056	0.98 ppm	95
93) Benzo[b]fluoranthene	18.252	252	133333	1.13 ppm	98
94) Benzo[k]fluoranthene	18.300	252	134457	1.21 ppm	94
95) Benzo[a]pyrene	18.797	252	117711	1.11 ppm	94
96) Indeno[1,2,3-cd]pyrene	20.672	276	109618	1.07 ppm	93
97) Dibenz(a,h)acridine	20.293	279	97504	1.04 ppm	80
98) Dibenz[a,h]anthracene	20.730	278	111692	1.04 ppm	97
99) 7,12-Dimethylbenz(a)an...	18.263	256	41939	0.93 ppm	92
100) Benzo[g,h,i]perylene	21.158	276	121236	1.09 ppm	96

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

7.6.58

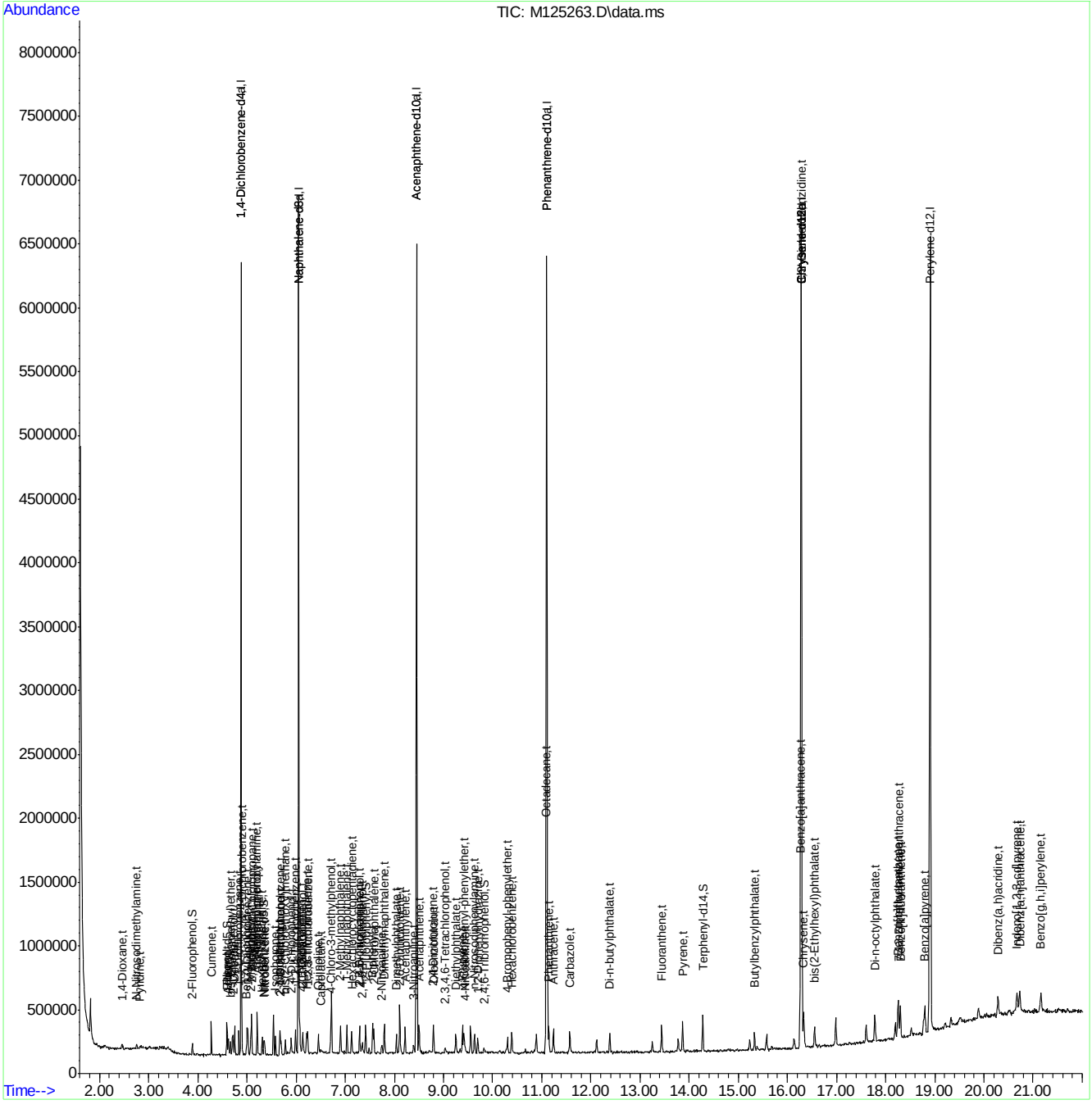
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125263.D
Acq On : 16 Jun 2016 1:25 pm
Operator : ashleyd
Sample : ic5307-1
Misc : op94571,em5307
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 20 09:42:14 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:37:43 2016
Response via : Initial Calibration



MM5307.M Mon Jun 20 09:42:23 2016 MSM

Page: 4

SGS ACCUTEST JC23654

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/20/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125264.D
Acq On : 16 Jun 2016 1:54 pm
Operator : ashleyd
Sample : ic5307-100
Misc : op94571,em5307
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 09:45:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.881	152	995838	40.00	ppm	0.00
24) Naphthalene-d8	6.056	136	3558783	40.00	ppm	0.00
47) Acenaphthene-d10	8.460	164	2192240	40.00	ppm	0.00
69) Phenanthrene-d10	11.109	188	3631686	40.00	ppm	0.00
83) Chrysene-d12	16.300	240	3293523	40.00	ppm	0.02
91) Perylene-d12	18.917	264	4081206	40.00	ppm	0.01
101) 1,4-Dichlorobenzene-d4a	4.881	152	995838	40.00	ppm	0.00
103) Acenaphthene-d10a	8.460	164	2192240	40.00	ppm	0.00
106) Chrysene-d12a	16.300	240	3293523	40.00	ppm	0.02
109) Phenanthrene-d10a	11.109	188	3631686	40.00	ppm	0.01
111) Naphthalene-d8a	6.056	136	3558783	40.00	ppm	0.00
113) Chrysene-d12b	16.300	240	3293523	40.00	ppm	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	3.888	112	3005978	96.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	192.34%	
8) Phenol-d5	4.598	99	3642324	90.35	ppm	0.01
Spiked Amount 50.000			Recovery	=	180.70%	
25) Nitrobenzene-d5	5.351	82	2990382	90.96	ppm	0.00
Spiked Amount 50.000			Recovery	=	181.92%	
51) 2-Fluorobiphenyl	7.423	172	6031413	79.01	ppm	0.00
Spiked Amount 50.000			Recovery	=	158.02%	
73) 2,4,6-Tribromophenol	9.832	330	1099720	104.47	ppm	0.01
Spiked Amount 50.000			Recovery	=	208.94%	
85) Terphenyl-d14	14.292	244	7411974	95.48	ppm	0.01
Spiked Amount 50.000			Recovery	=	190.96%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.445	88	1307019	87.86	ppm	97
3) Pyridine	2.761	79	3277783	100.82	ppm	98
4) N-Nitrosodimethylamine	2.729	42	1565503	96.13	ppm	93
6) Indene	5.095	116	4154798	74.47	ppm	97
7) Cumene	4.272	105	5773921	75.95	ppm	96
9) Phenol	4.609	94	3678765	83.48	ppm	96
10) Aniline	4.625	93	3336991	74.41	ppm	88
11) bis(2-Chloroethyl)ether	4.673	93	2554485	83.73	ppm	97
12) 2-Chlorophenol	4.721	128	2849594	81.66	ppm	96
13) Decane	4.753	43	2336747	76.23	ppm	97
14) 1,3-Dichlorobenzene	4.838	146	3148146	79.58	ppm	94
15) 1,4-Dichlorobenzene	4.892	146	3028359	79.95	ppm	97
16) Benzyl alcohol	4.993	108	1914685	91.56	ppm	94
17) 1,2-Dichlorobenzene	5.020	146	2757867	76.07	ppm	96
18) Acetophenone	5.218	105	3063678	74.26	ppm	98
19) 2-Methylphenol	5.084	108	2486767	83.17	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.100	121	860495	81.38	ppm	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125264.D
Acq On : 16 Jun 2016 1:54 pm
Operator : ashleyd
Sample : ic5307-100
Misc : op94571,em5307
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 09:45:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21)	3&4-Methylphenol	5.212	108	2573585	81.11	ppm		90
22)	n-Nitroso-di-n-propyla...	5.218	70	1750774	80.88	ppm		98
23)	Hexachloroethane	5.314	201	1185757	83.22	ppm		95
26)	Nitrobenzene	5.367	77	2835311	86.97	ppm		95
27)	Quinoline	6.489	129	6214359	88.64	ppm		99
28)	Isophorone	5.591	82	5118161	87.33	ppm		96
29)	2-Nitrophenol	5.666	139	1655214	91.61	ppm		92
30)	2,4-Dimethylphenol	5.698	107	2589648	93.07	ppm		96
32)	bis(2-Chloroethoxy)met...	5.789	93	2974029	85.18	ppm		99
33)	2,4-Dichlorophenol	5.907	162	2477944	85.65	ppm		96
34)	2,6-Dichlorophenol	6.147	162	2283598	82.74	ppm		97
35)	1,3,5-Trichlorobenzene	5.677	180	2535933	73.86	ppm		97
36)	1,2,4-Trichlorobenzene	5.997	180	2630848	77.87	ppm		97
37)	1,2,3-Trichlorobenzene	6.243	180	2463456	76.48	ppm		95
38)	Naphthalene	6.083	128	7363863	76.54	ppm		95
39)	4-Chloroaniline	6.141	127	3206390	78.66	ppm		96
40)	2,3-Dichloroaniline	7.295	161	2903838	79.07	ppm		98
41)	Caprolactam	6.574	55	1325226m	104.96	ppm		
42)	Hexachlorobutadiene	6.222	225	1419767	79.46	ppm		97
43)	4-Chloro-3-methylphenol	6.724	107	2431596	88.73	ppm		97
44)	2-Methylnaphthalene	6.911	141	4624146	78.66	ppm		98
45)	1-Methylnaphthalene	7.044	142	5583365	79.29	ppm		99
46)	Dimethylnaphthalene	7.808	156	5008705	78.61	ppm		100
48)	Hexachlorocyclopentadiene	7.135	237	3203362	177.98	ppm		99
49)	2,4,6-Trichlorophenol	7.306	196	1741501	84.54	ppm		99
50)	2,4,5-Trichlorophenol	7.359	196	2105494	92.06	ppm		98
52)	2-Chloronaphthalene	7.594	162	5053628	77.80	ppm		95
53)	Biphenyl	7.573	154	6599508	77.07	ppm		97
54)	2-Nitroaniline	7.760	65	1657041	100.35	ppm		95
55)	Dimethylphthalate	8.059	163	6272355	83.65	ppm		98
56)	Acenaphthylene	8.230	152	8466484	79.84	ppm		95
57)	2,6-Dinitrotoluene	8.144	165	1572843	98.26	ppm		96
58)	3-Nitroaniline	8.411	138	1866771	101.17	ppm		98
59)	Acenaphthene	8.518	153	5356059	80.97	ppm		97
60)	2,4-Dinitrophenol	8.588	184	2223425	198.73	ppm	#	71
61)	4-Nitrophenol	8.732	109	910777	113.97	ppm		91
62)	Dibenzofuran	8.807	168	7089756	76.21	ppm		96
63)	2,4-Dinitrotoluene	8.812	165	1824102	87.13	ppm		95
64)	2,3,4,6-Tetrachlorophenol	9.031	232	1771236	104.32	ppm		98
65)	Diethylphthalate	9.271	149	6010554	84.78	ppm		99
66)	Fluorene	9.400	166	6362474	80.91	ppm		97
67)	4-Chlorophenyl-phenyle...	9.426	204	3029801	79.92	ppm		99
68)	4-Nitroaniline	9.480	138	1890061	104.65	ppm		98
70)	4,6-Dinitro-2-methylph...	9.528	198	1544211	99.34	ppm		97
71)	n-Nitrosodiphenylamine	9.651	169	4674292	90.36	ppm		100
72)	1,2-Diphenylhydrazine	9.709	77	5728644	94.05	ppm		99
74)	4-Bromophenyl-phenylether	10.313	248	1922072	88.51	ppm		95
75)	Hexachlorobenzene	10.409	284	2093449	85.47	ppm		100
76)	Pentachlorophenol	10.788	266	2815549	196.57	ppm		96
77)	Phenanthrene	11.162	178	8927467	84.47	ppm		97

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125264.D
Acq On : 16 Jun 2016 1:54 pm
Operator : ashleyd
Sample : ic5307-100
Misc : op94571,em5307
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 09:45:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Anthracene	11.258	178	9055680	84.97	ppm	97
79)	Carbazole	11.595	167	8871281	86.57	ppm	97
80)	Di-n-butylphthalate	12.396	149	10070619	88.43	ppm	97
81)	Fluoranthene	13.459	202	10536702	85.96	ppm	96
82)	Octadecane	11.093	57	3276349	92.28	ppm	99
84)	Pyrene	13.891	202	10889031	93.63	ppm	96
86)	Butylbenzylphthalate	15.344	149	5048305	109.08	ppm	98
87)	Benzo[a]anthracene	16.279	228	9892803	95.76	ppm	98
88)	3,3'-Dichlorobenzidine	16.306	252	3655579	103.18	ppm	98
89)	Chrysene	16.359	228	9730894	94.37	ppm	97
90)	bis(2-Ethylhexyl)phtha...	16.562	149	6517118	105.94	ppm	98
92)	Di-n-octylphthalate	17.790	149	11075657	88.61	ppm	95
93)	Benzo[b]fluoranthene	18.292	252	10904876	83.56	ppm	93
94)	Benzo[k]fluoranthene	18.351	252	9215843m	74.58	ppm	
95)	Benzo[a]pyrene	18.832	252	9707473	82.35	ppm	99
96)	Indeno[1,2,3-cd]pyrene	20.723	276	10431448	91.76	ppm	98
97)	Dibenz(a,h)acridine	20.327	279	9169852	88.64	ppm	99
98)	Dibenz[a,h]anthracene	20.781	278	10339219	86.62	ppm	99
99)	7,12-Dimethylbenz(a)an...	18.303	256	4483727	89.31	ppm	97
100)	Benzo[g,h,i]perylene	21.230	276	10811260	87.36	ppm	98

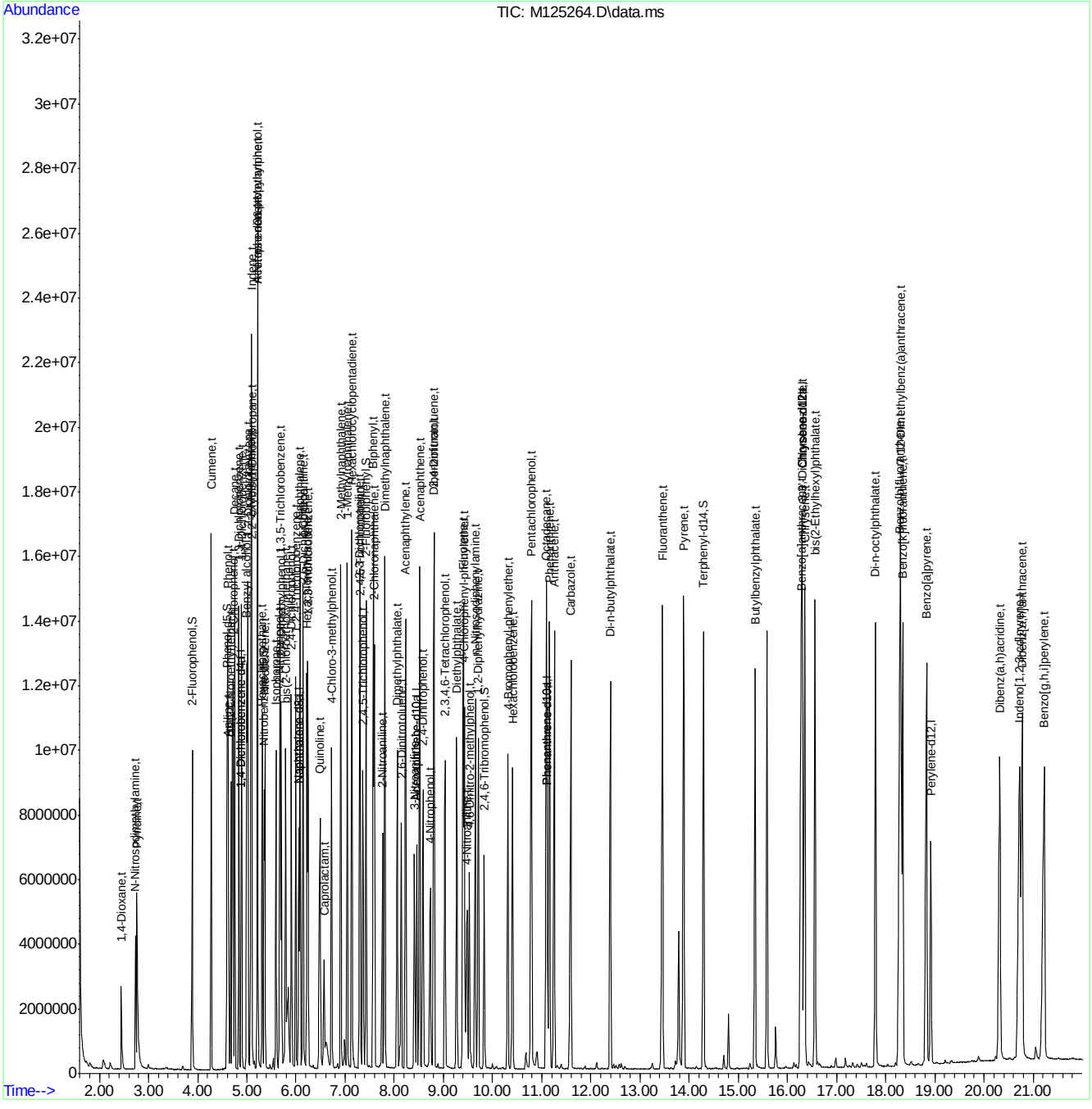
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125264.D
Acq On : 16 Jun 2016 1:54 pm
Operator : ashleyd
Sample : ic5307-100
Misc : op94571,em5307
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 09:45:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Manual Integration Approval Summary

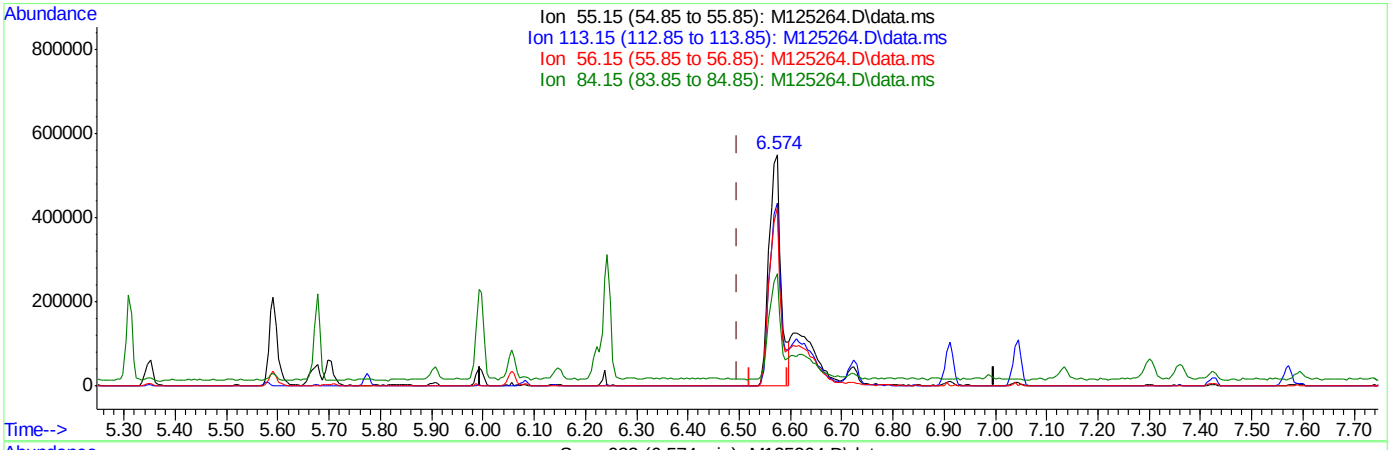
Sample Number:	EM5307-IC5307	**Method:**	SW846 8270D
Lab FileID:	M125264.D	**Analyst approved:**	06/20/16 09:53 Ashley Dye
Injection Time:	06/16/16 13:54	**Supervisor approved:**	06/20/16 12:38 Nina Pandya

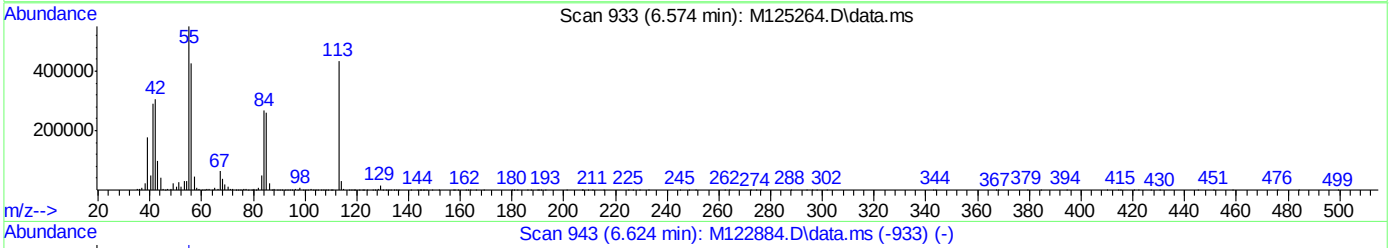
Parameter	CAS	Sig#	R.T. (min.)	Reason
Caprolactam	105-60-2		6.57	Overlapping peak
Benzo(k)fluoranthene	207-08-9		18.35	Overlapping peak

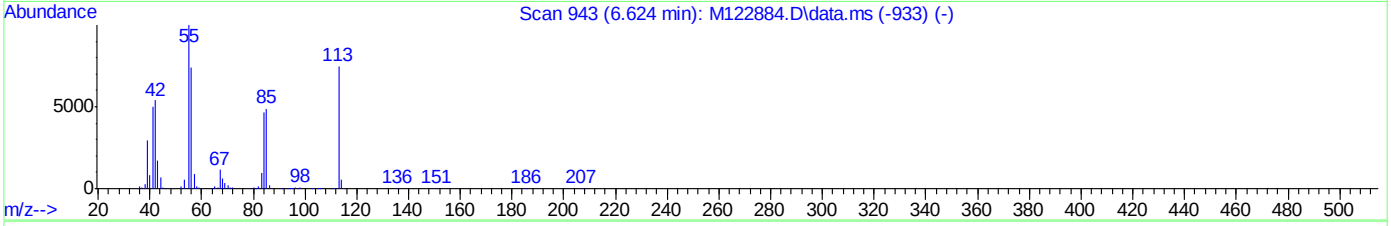
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125264.D
Acq On : 16 Jun 2016 1:54 pm
Operator : ashleyd
Sample : ic5307-100
Misc : op94571,em5307
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 09:44:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration







TIC: M125264.D\data.ms

(41) Caprolactam (t)

6.574min (+0.077) 69.65ppm

response 879326

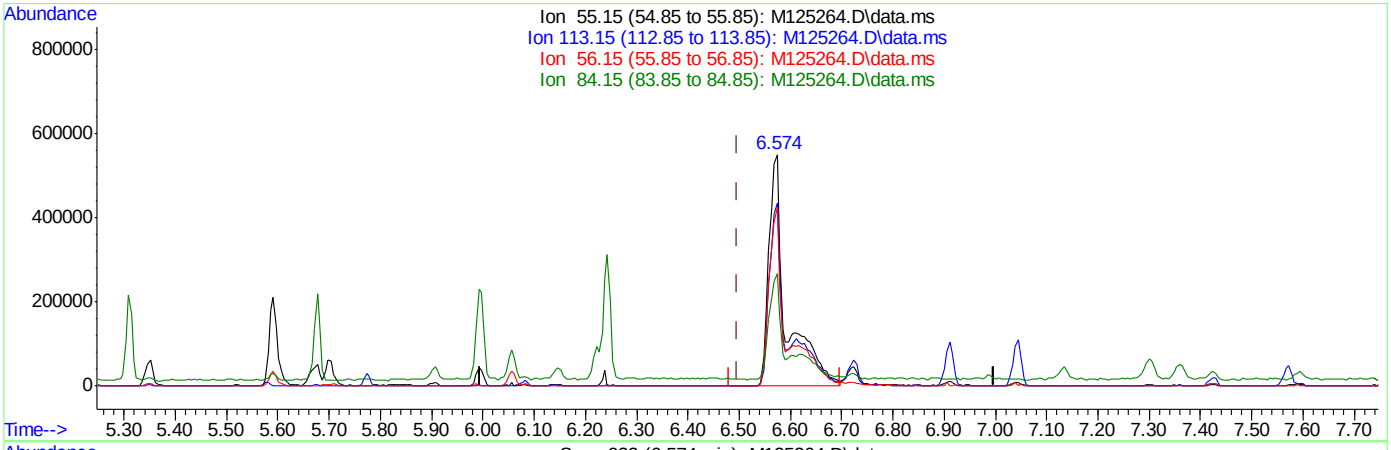
Ion	Exp%	Act%
55.15	100	100
113.15	80.20	78.82
56.15	76.20	76.33
84.15	43.80	45.19

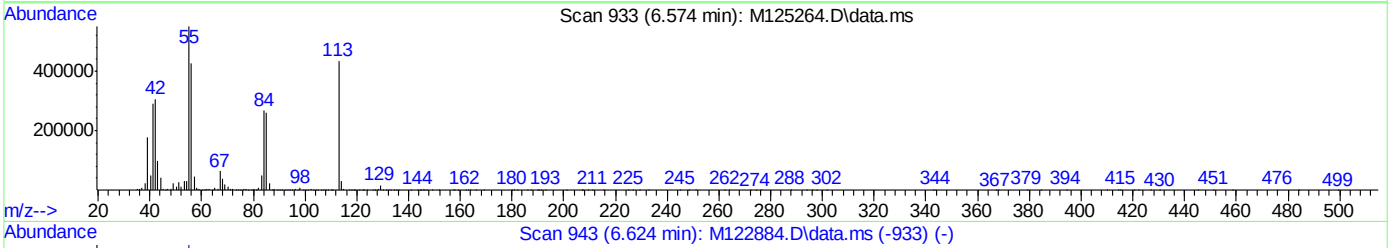
SGS ACCUTEST JC23654

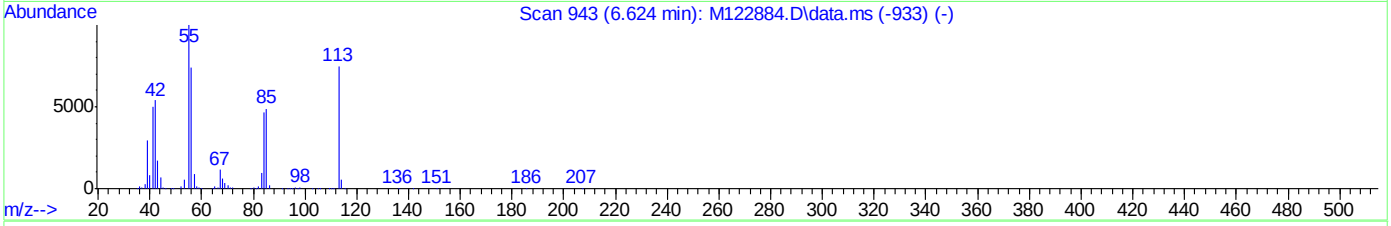
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125264.D
Acq On : 16 Jun 2016 1:54 pm
Operator : ashleyd
Sample : ic5307-100
Misc : op94571,em5307
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 09:44:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration







TIC: M125264.D\data.ms

(41) Caprolactam (t)

6.574min (+0.077) 104.96ppm m

response 1325226

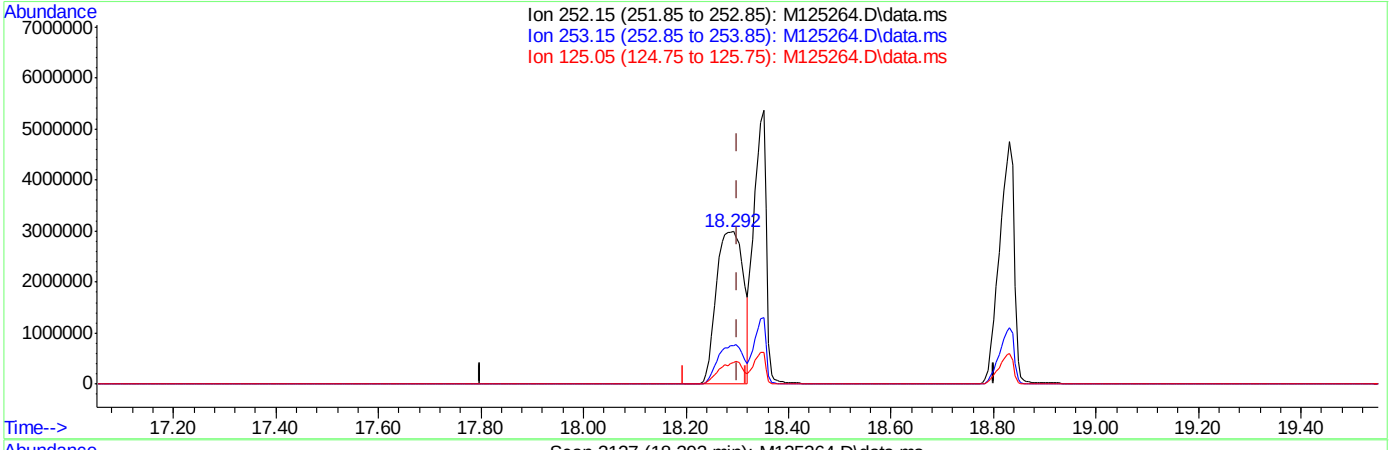
Ion	Exp%	Act%
55.15	100	100
113.15	80.20	79.01
56.15	76.20	77.11
84.15	43.80	48.37

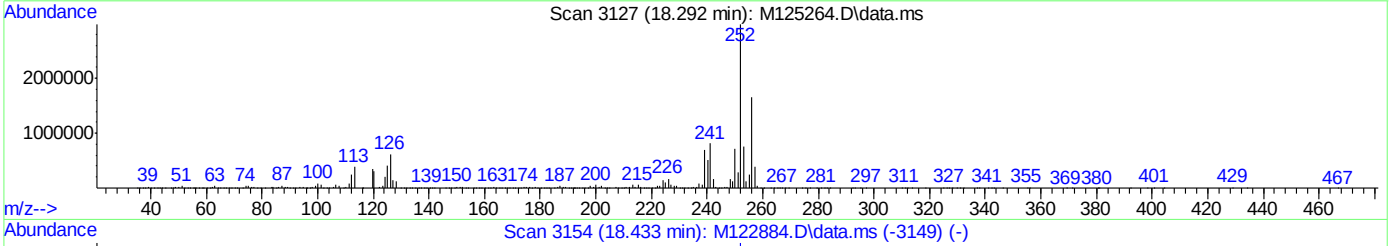
SGS ACCUTEST JC23654

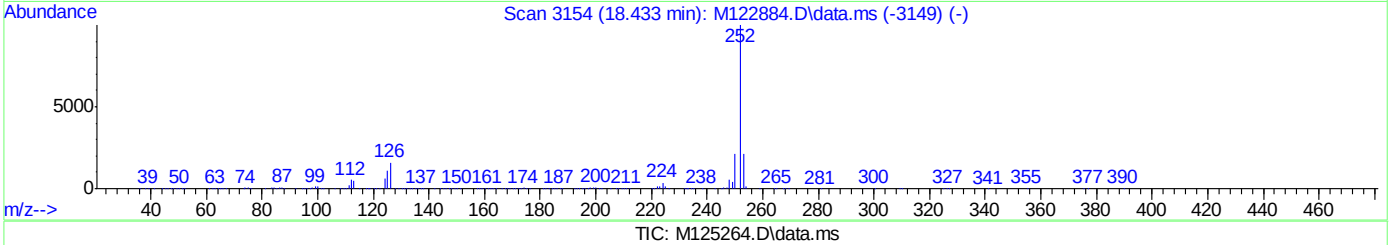
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125264.D
Acq On : 16 Jun 2016 1:54 pm
Operator : ashleyd
Sample : ic5307-100
Misc : op94571,em5307
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 09:44:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration







TIC: M125264.D\data.ms

(94) Benzo[k]fluoranthene (t)

18.292min (-0.008) 88.25ppm

response 10904876

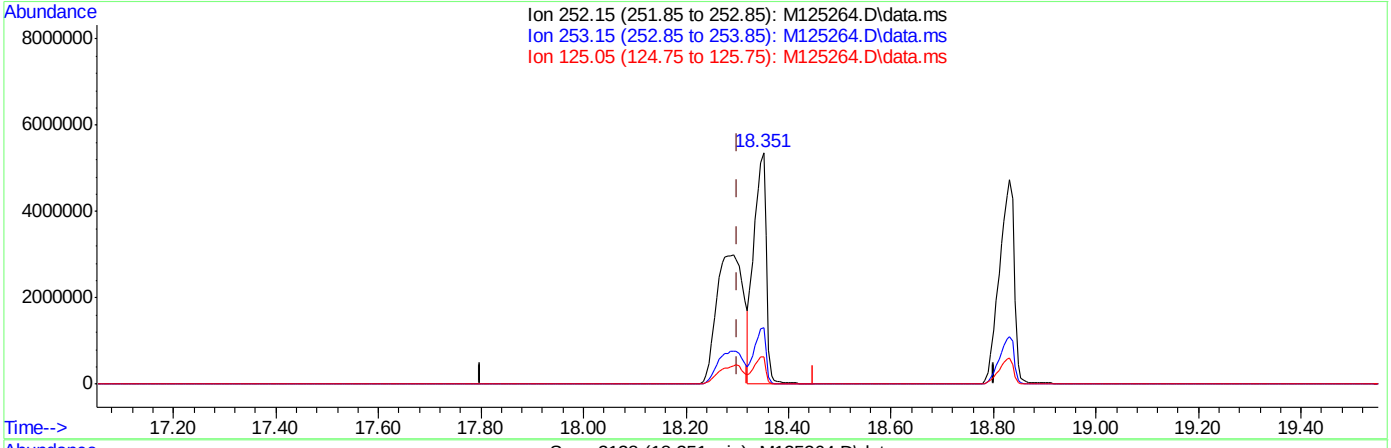
Ion	Exp%	Act%
252.15	100	100
253.15	22.00	25.86
125.05	10.50	14.81
0.00	0.00	0.00

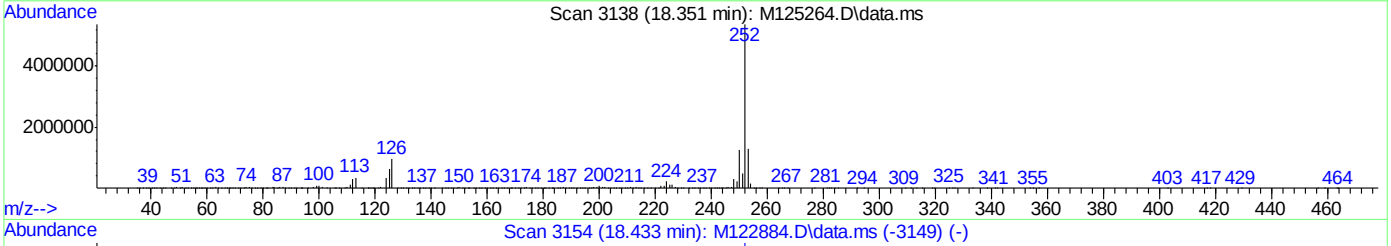
SGS ACCUTEST JC23654

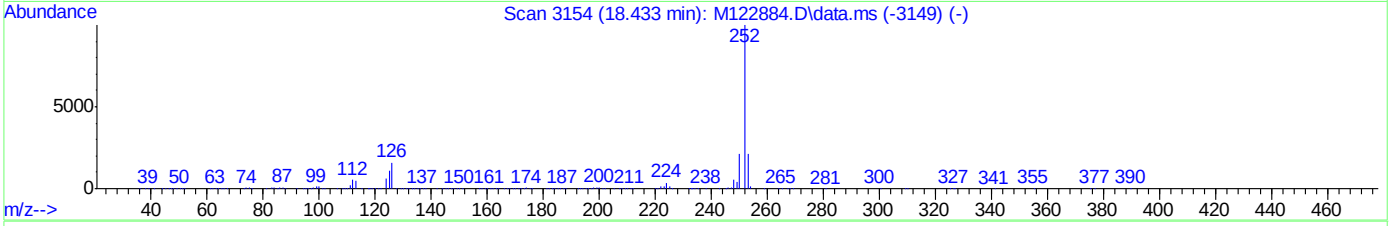
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125264.D
Acq On : 16 Jun 2016 1:54 pm
Operator : ashleyd
Sample : ic5307-100
Misc : op94571,em5307
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 20 09:44:50 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration







TIC: M125264.D\data.ms

(94) Benzo[k]fluoranthene (t)

18.351min (+0.050) 74.58ppm m

response 9215843

Ion	Exp%	Act%
252.15	100	100
253.15	22.00	24.29
125.05	10.50	11.73
0.00	0.00	0.00

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125265.D
Acq On : 16 Jun 2016 2:23 pm
Operator : ashleyd
Sample : ic5307-80
Misc : op94571,em5307
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 09:46:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 16:00:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.878	152	777597	40.00	ppm	0.00
24) Naphthalene-d8	6.053	136	2842166	40.00	ppm	0.00
47) Acenaphthene-d10	8.456	164	1739912	40.00	ppm	0.00
69) Phenanthrene-d10	11.106	188	2876436	40.00	ppm	0.00
83) Chrysene-d12	16.292	240	2737729	40.00	ppm	0.00
91) Perylene-d12	18.909	264	3229041	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.878	152	777597	40.00	ppm	0.00
103) Acenaphthene-d10a	8.456	164	1739912	40.00	ppm	0.00
106) Chrysene-d12a	16.292	240	2737729	40.00	ppm	0.00
109) Phenanthrene-d10a	11.106	188	2876436	40.00	ppm	0.00
111) Naphthalene-d8a	6.053	136	2842166	40.00	ppm	0.00
113) Chrysene-d12b	16.292	240	2737729	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.885	112	1929361	79.20	ppm	0.00
Spiked Amount 50.000			Recovery	=	158.40%	
8) Phenol-d5	4.595	99	2409033	78.99	ppm	0.00
Spiked Amount 50.000			Recovery	=	157.98%	
25) Nitrobenzene-d5	5.348	82	1923100	74.56	ppm	0.00
Spiked Amount 50.000			Recovery	=	149.12%	
51) 2-Fluorobiphenyl	7.420	172	4151422	72.31	ppm	0.00
Spiked Amount 50.000			Recovery	=	144.62%	
73) 2,4,6-Tribromophenol	9.824	330	728242	86.14	ppm	0.00
Spiked Amount 50.000			Recovery	=	172.28%	
85) Terphenyl-d14	14.289	244	5029254	79.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	158.52%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.442	88	837466	71.01	ppm	99
3) Pyridine	2.758	79	2050741	79.71	ppm	98
4) N-Nitrosodimethylamine	2.726	42	981567	75.26	ppm	89
6) Indene	5.092	116	2852510	69.65	ppm	98
7) Cumene	4.274	105	4070534	72.28	ppm	98
9) Phenol	4.606	94	2472257	73.82	ppm	99
10) Aniline	4.622	93	2199092	65.09	ppm	95
11) bis(2-Chloroethyl)ether	4.670	93	1698768	74.48	ppm	96
12) 2-Chlorophenol	4.718	128	1914860	72.65	ppm	98
13) Decane	4.750	43	1592105	69.76	ppm	98
14) 1,3-Dichlorobenzene	4.835	146	2150184	72.68	ppm	98
15) 1,4-Dichlorobenzene	4.894	146	2075908	72.60	ppm	100
16) Benzyl alcohol	4.990	108	1264630	78.84	ppm	93
17) 1,2-Dichlorobenzene	5.022	146	1883350	70.10	ppm	97
18) Acetophenone	5.214	105	2097409	68.94	ppm	91
19) 2-Methylphenol	5.081	108	1670134	73.50	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.097	121	566601	71.57	ppm	100

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125265.D
Acq On : 16 Jun 2016 2:23 pm
Operator : ashleyd
Sample : ic5307-80
Misc : op94571,em5307
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 09:46:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 16:00:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.209	108	1735540	73.56	ppm	87
22) n-Nitroso-di-n-propyla...	5.214	70	1167109	73.00	ppm	98
23) Hexachloroethane	5.311	201	790575	72.88	ppm	99
26) Nitrobenzene	5.364	77	1872183	74.02	ppm	97
27) Quinoline	6.475	129	3992148	72.09	ppm	100
28) Isophorone	5.583	82	3358581	74.25	ppm	98
29) 2-Nitrophenol	5.663	139	1093762	75.97	ppm	94
30) 2,4-Dimethylphenol	5.695	107	1666735	72.44	ppm	96
32) bis(2-Chloroethoxy)met...	5.786	93	1970934	73.05	ppm	99
33) 2,4-Dichlorophenol	5.903	162	1692764	74.79	ppm	99
34) 2,6-Dichlorophenol	6.144	162	1521975	69.91	ppm	99
35) 1,3,5-Trichlorobenzene	5.674	180	1735318	67.06	ppm	99
36) 1,2,4-Trichlorobenzene	5.994	180	1789678	69.76	ppm	100
37) 1,2,3-Trichlorobenzene	6.240	180	1676967	67.98	ppm	96
38) Naphthalene	6.080	128	5193607	71.15	ppm	98
39) 4-Chloroaniline	6.133	127	2154928	68.26	ppm	98
40) 2,3-Dichloroaniline	7.292	161	1953212	69.66	ppm	99
41) Caprolactam	6.550	55	833816	80.14	ppm	97
42) Hexachlorobutadiene	6.219	225	952455	68.69	ppm	98
43) 4-Chloro-3-methylphenol	6.715	107	1594229	73.06	ppm	97
44) 2-Methylnaphthalene	6.908	141	3147807	70.44	ppm	99
45) 1-Methylnaphthalene	7.041	142	3774765	70.09	ppm	97
46) Dimethylnaphthalene	7.805	156	3393931	69.50	ppm	99
48) Hexachlorocyclopentadiene	7.132	237	2202377	159.31	ppm	100
49) 2,4,6-Trichlorophenol	7.303	196	1160384	72.16	ppm	97
50) 2,4,5-Trichlorophenol	7.356	196	1378142	75.47	ppm	97
52) 2-Chloronaphthalene	7.591	162	3414455	70.20	ppm	97
53) Biphenyl	7.565	154	4576070	70.39	ppm	99
54) 2-Nitroaniline	7.751	65	1040690	78.62	ppm	97
55) Dimethylphthalate	8.056	163	4167228	73.27	ppm	99
56) Acenaphthylene	8.221	152	5823612	72.64	ppm	98
57) 2,6-Dinitrotoluene	8.136	165	1023841	80.60	ppm	96
58) 3-Nitroaniline	8.403	138	1197673	81.43	ppm	98
59) Acenaphthene	8.515	153	3617329	72.45	ppm	100
60) 2,4-Dinitrophenol	8.579	184	1388725	224.02	ppm	91
61) 4-Nitrophenol	8.724	109	571354	87.33	ppm	94
62) Dibenzofuran	8.804	168	4878783	70.01	ppm	99
63) 2,4-Dinitrotoluene	8.804	165	1239108	76.67	ppm	97
64) 2,3,4,6-Tetrachlorophenol	9.028	232	1156906	83.14	ppm	98
65) Diethylphthalate	9.268	149	3995239	72.47	ppm	99
66) Fluorene	9.397	166	4332446	72.99	ppm	97
67) 4-Chlorophenyl-phenyle...	9.423	204	2037989	70.98	ppm	99
68) 4-Nitroaniline	9.461	138	1183995	81.95	ppm	99
70) 4,6-Dinitro-2-methylph...	9.519	198	964478	107.76	ppm	97
71) n-Nitrosodiphenylamine	9.642	169	3105161	78.67	ppm	99
72) 1,2-Diphenylhydrazine	9.706	77	3784998	79.96	ppm	99
74) 4-Bromophenyl-phenylether	10.310	248	1291372	76.63	ppm	99
75) Hexachlorobenzene	10.401	284	1398536	74.65	ppm	99
76) Pentachlorophenol	10.780	266	1878034	228.84	ppm	99
77) Phenanthrene	11.154	178	6045566	75.06	ppm	98

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125265.D
Acq On : 16 Jun 2016 2:23 pm
Operator : ashleyd
Sample : ic5307-80
Misc : op94571,em5307
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 09:46:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 16:00:16 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Anthracene	11.250	178	6209366	77.19	ppm	99
79)	Carbazole	11.586	167	5997703	76.05	ppm	99
80)	Di-n-butylphthalate	12.393	149	7012550	79.49	ppm	99
81)	Fluoranthene	13.450	202	7185495	76.43	ppm	99
82)	Octadecane	11.090	57	2184746	79.02	ppm	98
84)	Pyrene	13.883	202	7425257	78.56	ppm	97
86)	Butylbenzylphthalate	15.341	149	3334932	83.59	ppm	99
87)	Benzo[a]anthracene	16.270	228	6648655	77.84	ppm	99
88)	3,3'-Dichlorobenzidine	16.297	252	2476371	82.61	ppm	100
89)	Chrysene	16.345	228	6613551	78.06	ppm	98
90)	bis(2-Ethylhexyl)phtha...	16.559	149	4416567	84.83	ppm	100
92)	Di-n-octylphthalate	17.787	149	7744474	81.27	ppm	99
93)	Benzo[b]fluoranthene	18.273	252	6970623	70.67	ppm	99
94)	Benzo[k]fluoranthene	18.332	252	6739573	74.13	ppm	98
95)	Benzo[a]pyrene	18.818	252	6513863	72.52	ppm	99
96)	Indeno[1,2,3-cd]pyrene	20.709	276	6765358	76.64	ppm	99
97)	Dibenz(a,h)acridine	20.314	279	6119826	76.80	ppm	99
98)	Dibenz[a,h]anthracene	20.762	278	7040521	76.99	ppm	99
99)	7,12-Dimethylbenz(a)an...	18.289	256	3028776	72.86	ppm	98
100)	Benzo[g,h,i]perylene	21.206	276	7219014	76.05	ppm	98

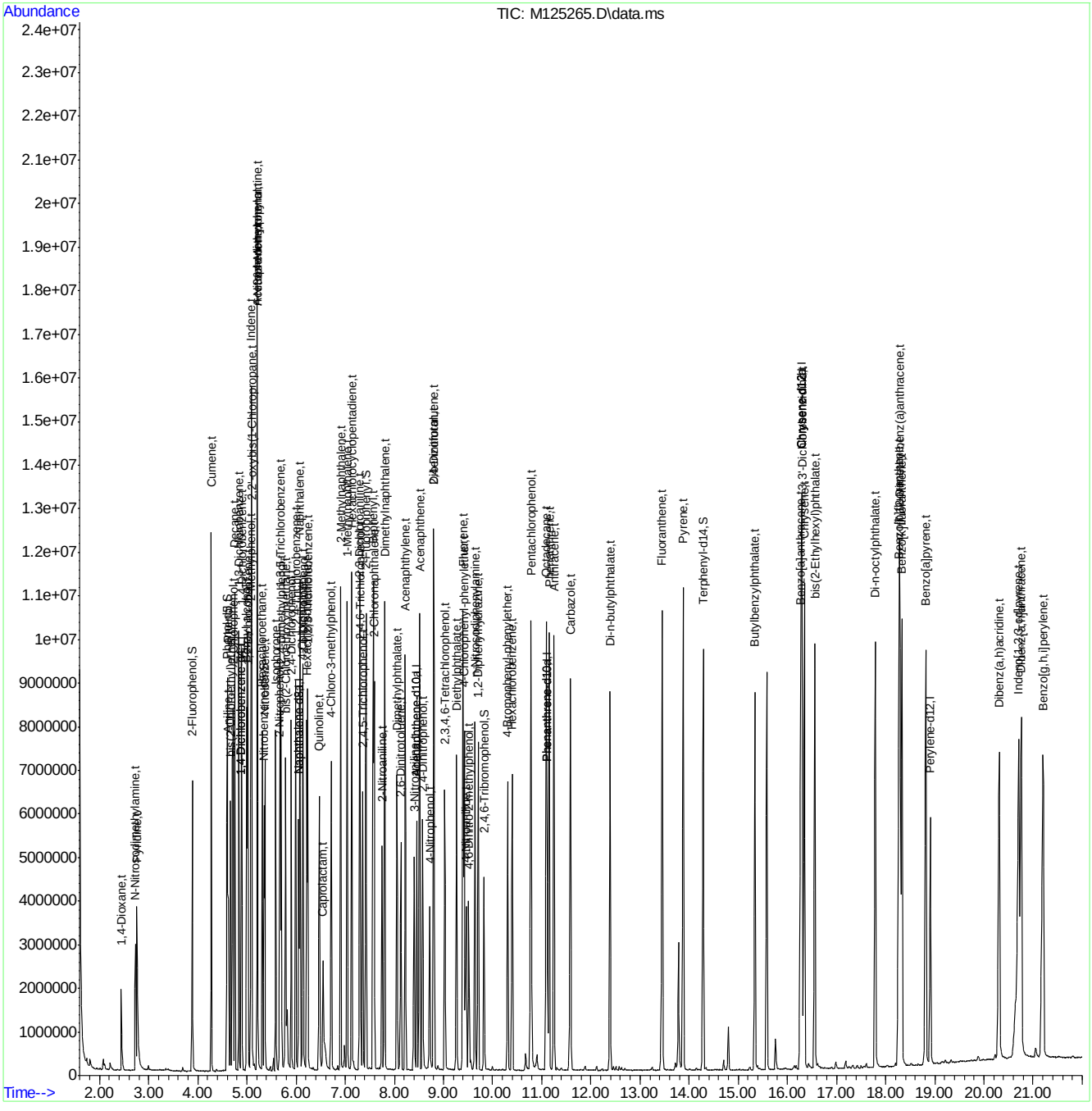
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125265.D
Acq On : 16 Jun 2016 2:23 pm
Operator : ashleyd
Sample : ic5307-80
Misc : op94571,em5307
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 20 09:46:16 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 16:00:16 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125266.D
Acq On : 16 Jun 2016 2:51 pm
Operator : ashleyd
Sample : icc5307-50
Misc : op94571,em5307
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 20 09:46:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 15:59:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.877	152	686658	40.00	ppm	0.00
24) Naphthalene-d8	6.053	136	2529110	40.00	ppm	0.00
47) Acenaphthene-d10	8.456	164	1566264	40.00	ppm	0.00
69) Phenanthrene-d10	11.100	188	2705757	40.00	ppm	0.00
83) Chrysene-d12	16.286	240	2675701	40.00	ppm	-0.01
91) Perylene-d12	18.908	264	2944147	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.877	152	686658	40.00	ppm	0.00
103) Acenaphthene-d10a	8.456	164	1566264	40.00	ppm	0.00
106) Chrysene-d12a	16.286	240	2675701	40.00	ppm	-0.01
109) Phenanthrene-d10a	11.100	188	2705757	40.00	ppm	0.00
111) Naphthalene-d8a	6.053	136	2529110	40.00	ppm	0.00
113) Chrysene-d12b	16.286	240	2675701	40.00	ppm	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	3.884	112	1104603	52.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	104.10%	
8) Phenol-d5	4.589	99	1417494	54.05	ppm	0.00
Spiked Amount 50.000			Recovery	=	108.10%	
25) Nitrobenzene-d5	5.342	82	1143171	49.71	ppm	0.00
Spiked Amount 50.000			Recovery	=	99.42%	
51) 2-Fluorobiphenyl	7.420	172	2591130	50.21	ppm	0.00
Spiked Amount 50.000			Recovery	=	100.42%	
73) 2,4,6-Tribromophenol	9.823	330	422737	54.89	ppm	0.00
Spiked Amount 50.000			Recovery	=	109.78%	
85) Terphenyl-d14	14.283	244	3148919	51.17	ppm	0.00
Spiked Amount 50.000			Recovery	=	102.34%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.447	88	499756	47.04	ppm	95
3) Pyridine	2.762	79	1234990	56.84	ppm	93
4) N-Nitrosodimethylamine	2.725	42	589482	51.80	ppm	91
6) Indene	5.091	116	1843627	51.48	ppm	98
7) Cumene	4.274	105	2573397	52.67	ppm	96
9) Phenol	4.600	94	1556973	54.08	ppm	96
10) Aniline	4.621	93	1567953	53.93	ppm	99
11) bis(2-Chloroethyl)ether	4.664	93	1024274	51.29	ppm	95
12) 2-Chlorophenol	4.717	128	1171190	50.48	ppm	94
13) Decane	4.749	43	1012703	50.37	ppm	97
14) 1,3-Dichlorobenzene	4.835	146	1319445	50.77	ppm	97
15) 1,4-Dichlorobenzene	4.894	146	1281650	51.15	ppm	98
16) Benzyl alcohol	4.984	108	752871	54.89	ppm	88
17) 1,2-Dichlorobenzene	5.016	146	1179318	49.56	ppm	96
18) Acetophenone	5.209	105	1358873	50.87	ppm	84
19) 2-Methylphenol	5.080	108	1050117	53.59	ppm	100
20) 2,2'-oxybis(1-Chloropr...	5.096	121	347464	49.56	ppm #	66

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125266.D
Acq On : 16 Jun 2016 2:51 pm
Operator : ashleyd
Sample : icc5307-50
Misc : op94571,em5307
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 20 09:46:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 15:59:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.203	108	1104210	54.64	ppm	97
22) n-Nitroso-di-n-propyla...	5.209	70	728583	52.45	ppm	90
23) Hexachloroethane	5.310	201	480716	50.28	ppm	96
26) Nitrobenzene	5.364	77	1143360	51.21	ppm	95
27) Quinoline	6.458	129	2485664	50.67	ppm	98
28) Isophorone	5.577	82	2122783	54.22	ppm	94
29) 2-Nitrophenol	5.657	139	665811	53.02	ppm	85
30) 2,4-Dimethylphenol	5.695	107	1027269	50.26	ppm	99
32) bis(2-Chloroethoxy)met...	5.785	93	1216530	51.01	ppm	99
33) 2,4-Dichlorophenol	5.898	162	1037509	52.30	ppm	96
34) 2,6-Dichlorophenol	6.143	162	973732	50.39	ppm	99
35) 1,3,5-Trichlorobenzene	5.673	180	1104421	47.01	ppm	99
36) 1,2,4-Trichlorobenzene	5.994	180	1114977	48.28	ppm	99
37) 1,2,3-Trichlorobenzene	6.239	180	1067919	48.00	ppm	97
38) Naphthalene	6.079	128	3263035	50.36	ppm	96
39) 4-Chloroaniline	6.133	127	1450162	52.47	ppm	97
40) 2,3-Dichloroaniline	7.292	161	1259573	50.73	ppm	98
41) Caprolactam	6.533	55	495890	55.54	ppm	92
42) Hexachlorobutadiene	6.218	225	601662	48.17	ppm	97
43) 4-Chloro-3-methylphenol	6.709	107	987576	51.30	ppm	94
44) 2-Methylnaphthalene	6.907	141	1994020	50.22	ppm	99
45) 1-Methylnaphthalene	7.035	142	2393172	49.91	ppm	99
46) Dimethylnaphthalene	7.799	156	2174777	50.07	ppm	99
48) Hexachlorocyclopentadiene	7.131	237	1419794	122.73	ppm	99
49) 2,4,6-Trichlorophenol	7.297	196	737178	51.40	ppm	100
50) 2,4,5-Trichlorophenol	7.350	196	831337	50.86	ppm	98
52) 2-Chloronaphthalene	7.585	162	2177633	49.60	ppm	97
53) Biphenyl	7.564	154	2940446	50.37	ppm	98
54) 2-Nitroaniline	7.746	65	629156	54.32	ppm	95
55) Dimethylphthalate	8.050	163	2581005	50.62	ppm	99
56) Acenaphthylene	8.221	152	3713913	52.22	ppm	98
57) 2,6-Dinitrotoluene	8.130	165	623660	57.13	ppm	97
58) 3-Nitroaniline	8.397	138	729631	58.07	ppm	96
59) Acenaphthene	8.509	153	2252010	50.16	ppm	97
60) 2,4-Dinitrophenol	8.568	184	733299	155.88	ppm	94
61) 4-Nitrophenol	8.712	109	321759	57.29	ppm	91
62) Dibenzofuran	8.798	168	3121277	49.64	ppm	99
63) 2,4-Dinitrotoluene	8.792	165	779279	55.54	ppm	82
64) 2,3,4,6-Tetrachlorophenol	9.022	232	691736	58.26	ppm	96
65) Diethylphthalate	9.262	149	2522503	51.26	ppm	100
66) Fluorene	9.391	166	2695030	50.66	ppm	97
67) 4-Chlorophenyl-phenyle...	9.417	204	1273670	48.93	ppm	94
68) 4-Nitroaniline	9.449	138	702714	56.30	ppm	93
70) 4,6-Dinitro-2-methylph...	9.508	198	523010	70.69	ppm	100
71) n-Nitrosodiphenylamine	9.636	169	1911253	52.25	ppm	96
72) 1,2-Diphenylhydrazine	9.700	77	2332604	53.67	ppm	97
74) 4-Bromophenyl-phenylether	10.304	248	811449	51.81	ppm	95
75) Hexachlorobenzene	10.395	284	873799	49.38	ppm	93
76) Pentachlorophenol	10.774	266	1084744	176.21	ppm	97
77) Phenanthrene	11.148	178	3810369	50.44	ppm	98

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125266.D
Acq On : 16 Jun 2016 2:51 pm
Operator : ashleyd
Sample : icc5307-50
Misc : op94571,em5307
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 20 09:46:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 15:59:09 2016
Response via : Initial Calibration

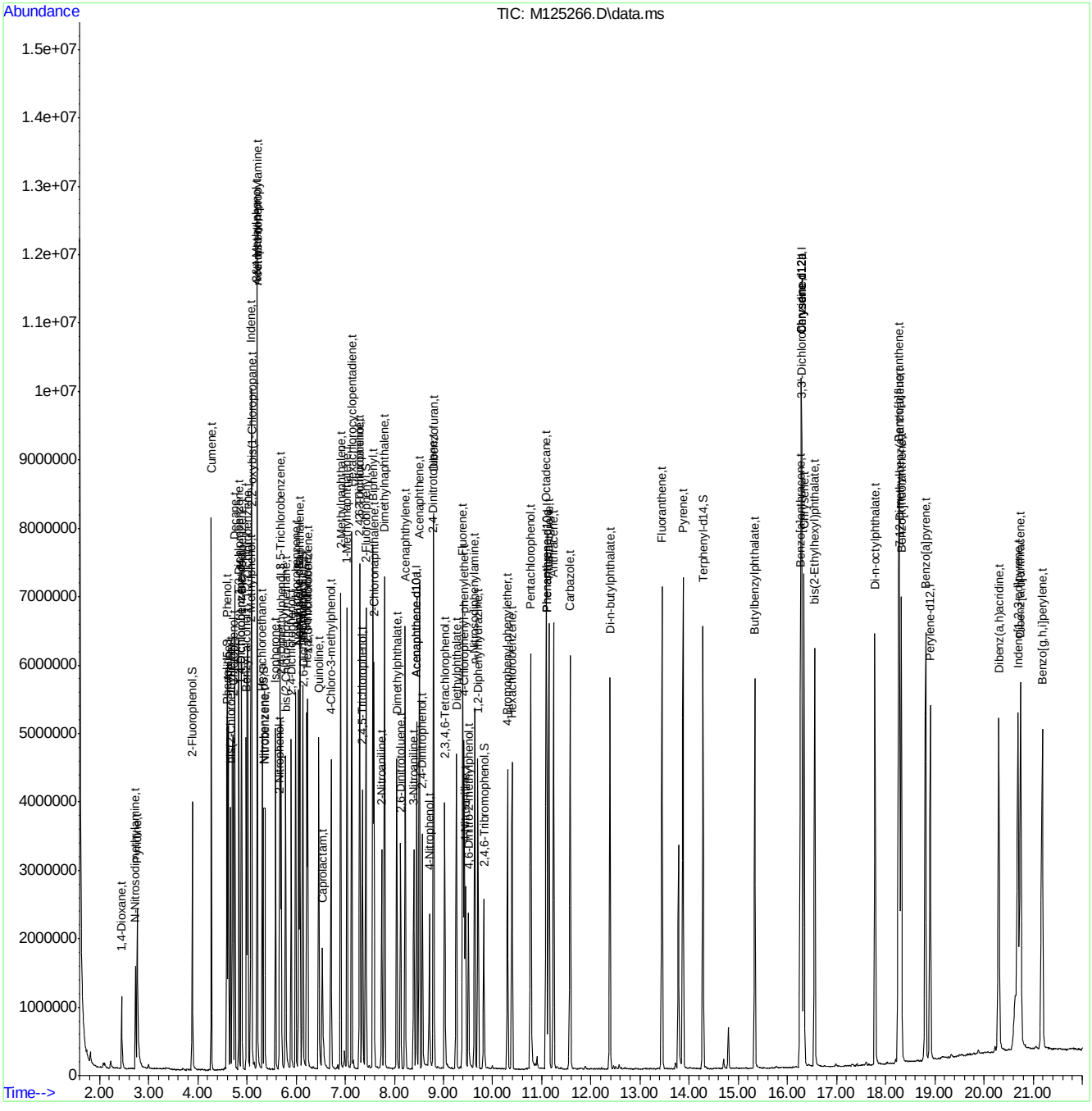
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Anthracene	11.239	178	3928801	52.94	ppm	98
79)	Carbazole	11.581	167	3838365	52.66	ppm	100
80)	Di-n-butylphthalate	12.387	149	4468554	56.01	ppm	98
81)	Fluoranthene	13.445	202	4569901	52.56	ppm	98
82)	Octadecane	11.089	57	1369160	54.07	ppm	96
84)	Pyrene	13.877	202	4658341	50.65	ppm	97
86)	Butylbenzylphthalate	15.335	149	2065285	54.59	ppm	97
87)	Benzo[a]anthracene	16.265	228	4129807	49.21	ppm	98
88)	3,3'-Dichlorobenzidine	16.291	252	1560293	55.05	ppm	98
89)	Chrysene	16.339	228	4101135	49.29	ppm	97
90)	bis(2-Ethylhexyl)phtha...	16.553	149	2746489	56.21	ppm	98
92)	Di-n-octylphthalate	17.782	149	4843407	59.14	ppm	98
93)	Benzo[b]fluoranthene	18.268	252	4293958	46.69	ppm	98
94)	Benzo[k]fluoranthene	18.321	252	4227155	51.50	ppm	98
95)	Benzo[a]pyrene	18.812	252	4076055	49.66	ppm	98
96)	Indeno[1,2,3-cd]pyrene	20.692	276	4070167	50.86	ppm	98
97)	Dibenz(a,h)acridine	20.302	279	3736912	52.19	ppm	99
98)	Dibenz[a,h]anthracene	20.746	278	4297456	52.35	ppm	98
99)	7,12-Dimethylbenz(a)an...	18.284	256	1990791	53.89	ppm	98
100)	Benzo[g,h,i]perylene	21.189	276	4317287	49.82	ppm	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125266.D
Acq On : 16 Jun 2016 2:51 pm
Operator : ashleyd
Sample : icc5307-50
Misc : op94571,em5307
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 20 09:46:24 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 15:59:09 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125267.D
Acq On : 16 Jun 2016 3:21 pm
Operator : ashleyd
Sample : ic5307-25
Misc : op94571,em5307
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 09:46:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 16:01:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.879	152	703070	40.00	ppm	0.00
24) Naphthalene-d8	6.054	136	2541377	40.00	ppm	0.00
47) Acenaphthene-d10	8.452	164	1595222	40.00	ppm	0.00
69) Phenanthrene-d10	11.101	188	2780327	40.00	ppm	0.00
83) Chrysene-d12	16.282	240	2826436	40.00	ppm	0.00
91) Perylene-d12	18.904	264	2908987	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.879	152	703070	40.00	ppm	0.00
103) Acenaphthene-d10a	8.452	164	1595222	40.00	ppm	0.00
106) Chrysene-d12a	16.282	240	2826436	40.00	ppm	0.00
109) Phenanthrene-d10a	11.101	188	2780327	40.00	ppm	0.00
111) Naphthalene-d8a	6.054	136	2541377	40.00	ppm	0.00
113) Chrysene-d12b	16.282	240	2826436	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.885	112	564127	25.68	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.36%	
8) Phenol-d5	4.590	99	718572	26.14	ppm	0.00
Spiked Amount 50.000			Recovery	=	52.28%	
25) Nitrobenzene-d5	5.344	82	587907	25.93	ppm	0.00
Spiked Amount 50.000			Recovery	=	51.86%	
51) 2-Fluorobiphenyl	7.416	172	1396780	27.19	ppm	0.00
Spiked Amount 50.000			Recovery	=	54.38%	
73) 2,4,6-Tribromophenol	9.819	330	211455	25.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	50.78%	
85) Terphenyl-d14	14.279	244	1659457	25.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	50.78%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.449	88	255250	24.63	ppm	98
3) Pyridine	2.769	79	616654	26.53	ppm	97
4) N-Nitrosodimethylamine	2.732	42	289234	24.90	ppm	85
6) Indene	5.093	116	1007877	28.13	ppm	96
7) Cumene	4.275	105	1396316	28.10	ppm	99
9) Phenol	4.596	94	811327	27.32	ppm	96
10) Aniline	4.617	93	855976	29.39	ppm	98
11) bis(2-Chloroethyl)ether	4.665	93	542830	26.78	ppm	96
12) 2-Chlorophenol	4.713	128	631705	27.13	ppm	98
13) Decane	4.751	43	553236	27.70	ppm	98
14) 1,3-Dichlorobenzene	4.836	146	699396	26.76	ppm	98
15) 1,4-Dichlorobenzene	4.890	146	675530	26.75	ppm	96
16) Benzyl alcohol	4.986	108	388022	26.85	ppm	97
17) 1,2-Dichlorobenzene	5.018	146	640939	27.23	ppm	99
18) Acetophenone	5.210	105	758067	28.54	ppm	85
19) 2-Methylphenol	5.076	108	552697	27.46	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.098	121	189318	27.17	ppm	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125267.D
Acq On : 16 Jun 2016 3:21 pm
Operator : ashleyd
Sample : ic5307-25
Misc : op94571,em5307
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 09:46:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 16:01:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
21) 3&4-Methylphenol	5.199	108	583617	27.92	ppm	93
22) n-Nitroso-di-n-propyla...	5.205	70	400489	28.33	ppm	99
23) Hexachloroethane	5.311	201	254163	26.50	ppm	95
26) Nitrobenzene	5.360	77	598681	26.98	ppm	95
27) Quinoline	6.454	129	1291468	26.74	ppm	98
28) Isophorone	5.579	82	1104727	27.81	ppm	96
29) 2-Nitrophenol	5.659	139	354054	27.85	ppm	94
30) 2,4-Dimethylphenol	5.691	107	536739	26.72	ppm	97
32) bis(2-Chloroethoxy)met...	5.782	93	637622	27.02	ppm	98
33) 2,4-Dichlorophenol	5.899	162	547903	27.52	ppm	97
34) 2,6-Dichlorophenol	6.139	162	507264	26.91	ppm	95
35) 1,3,5-Trichlorobenzene	5.675	180	611380	27.54	ppm	99
36) 1,2,4-Trichlorobenzene	5.990	180	599962	27.02	ppm	99
37) 1,2,3-Trichlorobenzene	6.235	180	564073	26.57	ppm	98
38) Naphthalene	6.075	128	1727387	27.22	ppm	99
39) 4-Chloroaniline	6.129	127	754578	27.75	ppm	99
40) 2,3-Dichloroaniline	7.288	161	671059	27.66	ppm	99
41) Caprolactam	6.519	55	243370	26.15	ppm	97
42) Hexachlorobutadiene	6.219	225	318971	26.67	ppm	99
43) 4-Chloro-3-methylphenol	6.705	107	505830	26.50	ppm	99
44) 2-Methylnaphthalene	6.903	141	1068672	27.57	ppm	98
45) 1-Methylnaphthalene	7.037	142	1266880	27.15	ppm	99
46) Dimethylnaphthalene	7.795	156	1162189	27.52	ppm	100
48) Hexachlorocyclopentadiene	7.133	237	755834	59.70	ppm	97
49) 2,4,6-Trichlorophenol	7.293	196	385238	26.79	ppm	99
50) 2,4,5-Trichlorophenol	7.346	196	434972	26.35	ppm	100
52) 2-Chloronaphthalene	7.581	162	1170346	27.07	ppm	98
53) Biphenyl	7.560	154	1576010	27.26	ppm	99
54) 2-Nitroaniline	7.742	65	324193	26.83	ppm	96
55) Dimethylphthalate	8.046	163	1367045	26.78	ppm	99
56) Acenaphthylene	8.217	152	1975084	27.50	ppm	99
57) 2,6-Dinitrotoluene	8.121	165	316133	27.09	ppm	95
58) 3-Nitroaniline	8.393	138	370684	27.37	ppm	97
59) Acenaphthene	8.505	153	1210728	27.09	ppm	99
60) 2,4-Dinitrophenol	8.564	184	301545	48.23	ppm	93
61) 4-Nitrophenol	8.703	109	153288	24.98	ppm	92
62) Dibenzofuran	8.794	168	1690756	27.32	ppm	99
63) 2,4-Dinitrotoluene	8.789	165	415093	28.31	ppm	95
64) 2,3,4,6-Tetrachlorophenol	9.018	232	339538	26.35	ppm	98
65) Diethylphthalate	9.253	149	1326637	26.88	ppm	98
66) Fluorene	9.387	166	1448442	27.21	ppm	99
67) 4-Chlorophenyl-phenyle...	9.419	204	686712	26.84	ppm	95
68) 4-Nitroaniline	9.440	138	357559	26.83	ppm	97
70) 4,6-Dinitro-2-methylph...	9.504	198	229859	24.45	ppm	96
71) n-Nitrosodiphenylamine	9.632	169	1006879	26.50	ppm	99
72) 1,2-Diphenylhydrazine	9.697	77	1231201	26.91	ppm	99
74) 4-Bromophenyl-phenylether	10.300	248	415052	25.75	ppm	95
75) Hexachlorobenzene	10.391	284	465298	26.13	ppm	97
76) Pentachlorophenol	10.770	266	437503	49.80	ppm	96
77) Phenanthrene	11.144	178	2034361	26.54	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125267.D
Acq On : 16 Jun 2016 3:21 pm
Operator : ashleyd
Sample : ic5307-25
Misc : op94571,em5307
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 09:46:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 16:01:56 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Anthracene	11.240	178	2093823	27.17	ppm	99
79)	Carbazole	11.577	167	2029610	26.96	ppm	100
80)	Di-n-butylphthalate	12.383	149	2320562	27.26	ppm	100
81)	Fluoranthene	13.441	202	2402078	26.73	ppm	99
82)	Octadecane	11.085	57	713312	26.77	ppm	97
84)	Pyrene	13.873	202	2481873	25.55	ppm	99
86)	Butylbenzylphthalate	15.331	149	1036528	24.89	ppm	99
87)	Benzo[a]anthracene	16.261	228	2169603	24.77	ppm	100
88)	3,3'-Dichlorobenzidine	16.282	252	809171	25.93	ppm	99
89)	Chrysene	16.330	228	2165229	24.90	ppm	100
90)	bis(2-Ethylhexyl)phtha...	16.554	149	1389999	25.48	ppm	97
92)	Di-n-octylphthalate	17.778	149	2442035	28.33	ppm	99
93)	Benzo[b]fluoranthene	18.258	252	2338076	27.10	ppm	99
94)	Benzo[k]fluoranthene	18.306	252	2209620	27.48	ppm	99
95)	Benzo[a]pyrene	18.803	252	2122759	26.86	ppm	99
96)	Indeno[1,2,3-cd]pyrene	20.683	276	2034364	25.85	ppm	98
97)	Dibenz(a,h)acridine	20.293	279	1918181	26.99	ppm	99
98)	Dibenz[a,h]anthracene	20.736	278	2207182	27.05	ppm	98
99)	7,12-Dimethylbenz(a)an...	18.269	256	1027963	28.08	ppm	98
100)	Benzo[g,h,i]perylene	21.169	276	2218205	26.26	ppm	97

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

7.6.62

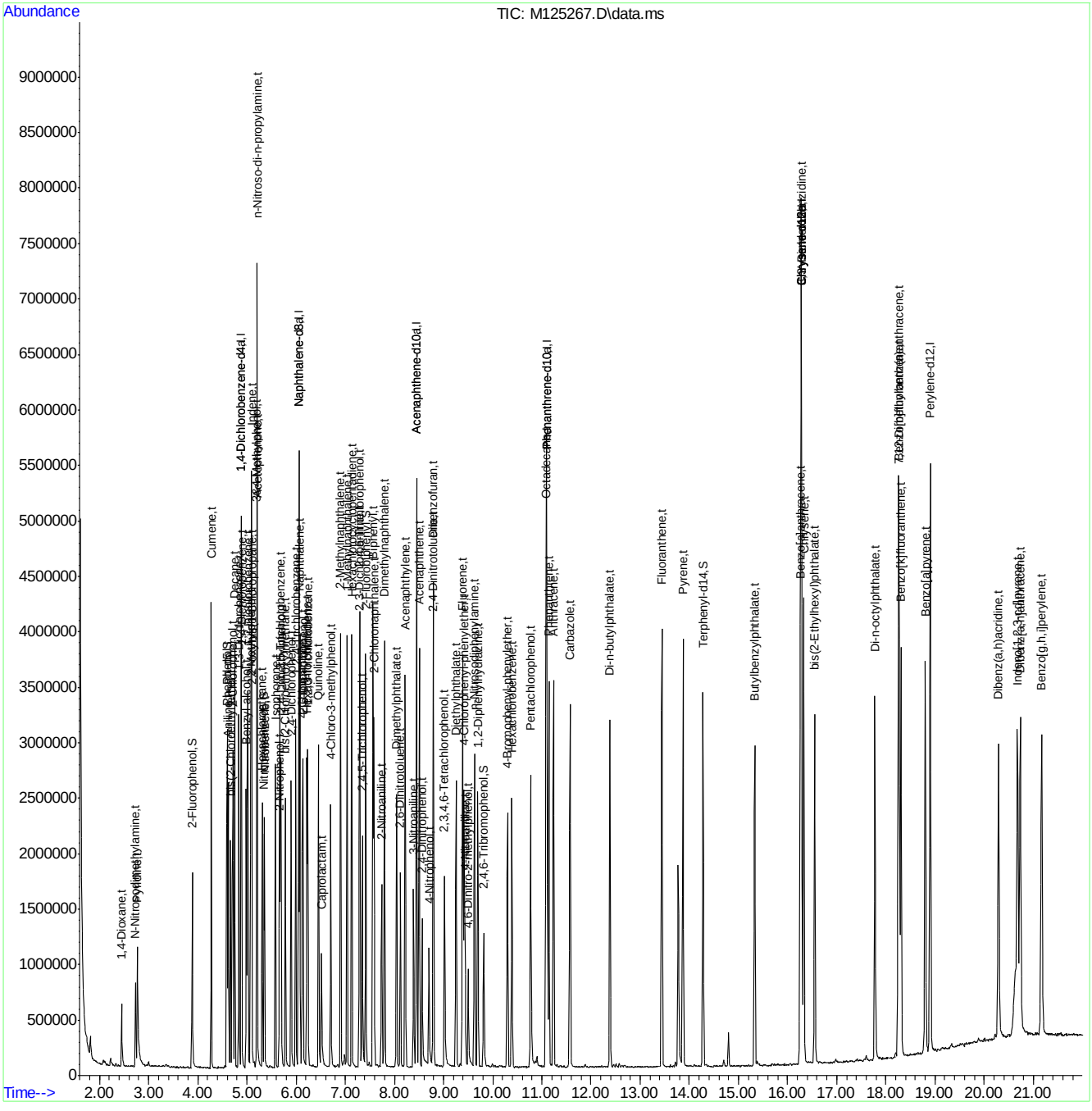
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125267.D
Acq On : 16 Jun 2016 3:21 pm
Operator : ashleyd
Sample : ic5307-25
Misc : op94571,em5307
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 20 09:46:31 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Thu Jun 16 16:01:56 2016
Response via : Initial Calibration



MM5307.M Mon Jun 20 09:46:34 2016 MSM

Page: 4

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125268.D
Acq On : 16 Jun 2016 3:49 pm
Operator : ashleyd
Sample : ic5307-10
Misc : op94571,em5307
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 09:47:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.878	152	820835	40.00	ppm	0.00
24) Naphthalene-d8	6.053	136	2936172	40.00	ppm	0.00
47) Acenaphthene-d10	8.451	164	1827652	40.00	ppm	0.00
69) Phenanthrene-d10	11.100	188	3234363	40.00	ppm	0.00
83) Chrysene-d12	16.281	240	3330432	40.00	ppm	0.00
91) Perylene-d12	18.904	264	3219904	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.878	152	820835	40.00	ppm	0.00
103) Acenaphthene-d10a	8.451	164	1827652	40.00	ppm	0.00
106) Chrysene-d12a	16.281	240	3330432	40.00	ppm	0.00
109) Phenanthrene-d10a	11.100	188	3234363	40.00	ppm	0.00
111) Naphthalene-d8a	6.053	136	2936172	40.00	ppm	0.00
113) Chrysene-d12b	16.281	240	3330432	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.885	112	252549	9.80	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.60%	
8) Phenol-d5	4.584	99	319501	9.61	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.22%	
25) Nitrobenzene-d5	5.343	82	260682	9.61	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.22%	
51) 2-Fluorobiphenyl	7.415	172	615715	9.67	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.34%	
73) 2,4,6-Tribromophenol	9.819	330	90559	9.66	ppm	0.00
Spiked Amount 50.000			Recovery	=	19.32%	
85) Terphenyl-d14	14.278	244	737113	9.39	ppm	0.00
Spiked Amount 50.000			Recovery	=	18.78%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.448	88	113619	9.27	ppm	98
3) Pyridine	2.774	79	265576	9.91	ppm	99
4) N-Nitrosodimethylamine	2.731	42	123200	9.18	ppm	95
6) Indene	5.092	116	455342	9.90	ppm	96
7) Cumene	4.275	105	612934	9.78	ppm	98
9) Phenol	4.595	94	350600	9.65	ppm	99
10) Aniline	4.622	93	360563	9.75	ppm	99
11) bis(2-Chloroethyl)ether	4.664	93	238629	9.49	ppm	96
12) 2-Chlorophenol	4.713	128	276103	9.60	ppm	98
13) Decane	4.750	43	246989	9.78	ppm	97
14) 1,3-Dichlorobenzene	4.835	146	319283	9.79	ppm	96
15) 1,4-Dichlorobenzene	4.894	146	300056	9.61	ppm	97
16) Benzyl alcohol	4.985	108	162218	9.41	ppm	95
17) 1,2-Dichlorobenzene	5.017	146	296910	9.94	ppm	99
18) Acetophenone	5.209	105	341632	10.05	ppm	83
19) 2-Methylphenol	5.076	108	239276	9.71	ppm	98
20) 2,2'-oxybis(1-Chloropr...	5.097	121	86177	9.89	ppm	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125268.D
Acq On : 16 Jun 2016 3:49 pm
Operator : ashleyd
Sample : ic5307-10
Misc : op94571,em5307
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 09:47:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.199	108	255089	9.75	ppm		92
22) n-Nitroso-di-n-propyla...	5.204	70	180988	10.14	ppm		96
23) Hexachloroethane	5.311	201	116165	9.89	ppm		94
26) Nitrobenzene	5.359	77	262043	9.74	ppm		98
27) Quinoline	6.454	129	544286	9.41	ppm		99
28) Isophorone	5.578	82	470697	9.73	ppm		94
29) 2-Nitrophenol	5.658	139	145175	9.74	ppm		96
30) 2,4-Dimethylphenol	5.690	107	207292	9.03	ppm		99
32) bis(2-Chloroethoxy)met...	5.781	93	282088	9.79	ppm		95
33) 2,4-Dichlorophenol	5.898	162	230281	9.65	ppm		99
34) 2,6-Dichlorophenol	6.139	162	215924	9.48	ppm		99
35) 1,3,5-Trichlorobenzene	5.674	180	280462	9.90	ppm		96
36) 1,2,4-Trichlorobenzene	5.989	180	280545	10.06	ppm		95
37) 1,2,3-Trichlorobenzene	6.235	180	256937	9.67	ppm		97
38) Naphthalene	6.074	128	776269	9.78	ppm		98
39) 4-Chloroaniline	6.128	127	325728	9.69	ppm		98
40) 2,3-Dichloroaniline	7.287	161	290008	9.57	ppm		97
41) Caprolactam	6.502	55	101211	9.72	ppm		96
42) Hexachlorobutadiene	6.219	225	142403	9.66	ppm		97
43) 4-Chloro-3-methylphenol	6.699	107	215482	9.53	ppm		92
44) 2-Methylnaphthalene	6.902	141	483537	9.97	ppm		98
45) 1-Methylnaphthalene	7.036	142	563419	9.70	ppm		99
46) Dimethylnaphthalene	7.794	156	514289	9.78	ppm		98
48) Hexachlorocyclopentadiene	7.132	237	302658	20.17	ppm		97
49) 2,4,6-Trichlorophenol	7.292	196	161731	9.42	ppm		94
50) 2,4,5-Trichlorophenol	7.346	196	179255	9.40	ppm		95
52) 2-Chloronaphthalene	7.581	162	530015	9.79	ppm		98
53) Biphenyl	7.559	154	685389	9.60	ppm		99
54) 2-Nitroaniline	7.736	65	130212	9.46	ppm		87
55) Dimethylphthalate	8.040	163	599443	9.59	ppm		98
56) Acenaphthylene	8.216	152	866336	9.80	ppm		98
57) 2,6-Dinitrotoluene	8.120	165	129032	9.67	ppm		91
58) 3-Nitroaniline	8.387	138	150820	9.80	ppm		98
59) Acenaphthene	8.505	153	538636	9.77	ppm		98
60) 2,4-Dinitrophenol	8.569	184	72843	16.00	ppm		91
61) 4-Nitrophenol	8.702	109	58365	8.76	ppm	#	85
62) Dibenzofuran	8.793	168	771340	9.95	ppm		98
63) 2,4-Dinitrotoluene	8.788	165	179738	10.30	ppm		91
64) 2,3,4,6-Tetrachlorophenol	9.023	232	131294	9.28	ppm		95
65) Diethylphthalate	9.252	149	566686	9.59	ppm		98
66) Fluorene	9.386	166	634896	9.68	ppm		96
67) 4-Chlorophenyl-phenyle...	9.418	204	301781	9.55	ppm		97
68) 4-Nitroaniline	9.434	138	148743	9.88	ppm		96
70) 4,6-Dinitro-2-methylph...	9.503	198	61174	8.16	ppm		98
71) n-Nitrosodiphenylamine	9.626	169	437789	9.50	ppm		99
72) 1,2-Diphenylhydrazine	9.696	77	514646	9.49	ppm		97
74) 4-Bromophenyl-phenylether	10.299	248	179774	9.30	ppm		96
75) Hexachlorobenzene	10.390	284	207911	9.53	ppm		97
76) Pentachlorophenol	10.775	266	116831	16.39	ppm		96
77) Phenanthrene	11.138	178	918044	9.75	ppm		99

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125268.D
Acq On : 16 Jun 2016 3:49 pm
Operator : ashleyd
Sample : ic5307-10
Misc : op94571,em5307
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 09:47:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Anthracene	11.234	178	929822	9.80	ppm	99
79)	Carbazole	11.576	167	882496	9.67	ppm	98
80)	Di-n-butylphthalate	12.382	149	981339	9.68	ppm	99
81)	Fluoranthene	13.440	202	1068921	9.79	ppm	97
82)	Octadecane	11.084	57	296501	9.38	ppm	97
84)	Pyrene	13.867	202	1113367	9.47	ppm	97
86)	Butylbenzylphthalate	15.331	149	430489	9.20	ppm	99
87)	Benzo[a]anthracene	16.260	228	956788	9.16	ppm	98
88)	3,3'-Dichlorobenzidine	16.281	252	330588	9.23	ppm	96
89)	Chrysene	16.324	228	966580	9.27	ppm	100
90)	bis(2-Ethylhexyl)phtha...	16.554	149	578763	9.30	ppm	98
92)	Di-n-octylphthalate	17.777	149	990745	10.05	ppm	99
93)	Benzo[b]fluoranthene	18.257	252	1019178	9.90	ppm	97
94)	Benzo[k]fluoranthene	18.300	252	995893	10.22	ppm	99
95)	Benzo[a]pyrene	18.797	252	920544	9.90	ppm	97
96)	Indeno[1,2,3-cd]pyrene	20.677	276	873893	9.74	ppm	98
97)	Dibenz(a,h)acridine	20.287	279	796769	9.76	ppm	81
98)	Dibenz[a,h]anthracene	20.730	278	922080	9.79	ppm	99
99)	7,12-Dimethylbenz(a)an...	18.263	256	354122	8.94	ppm	96
100)	Benzo[g,h,i]perylene	21.163	276	939582	9.62	ppm	98

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

7.6.63

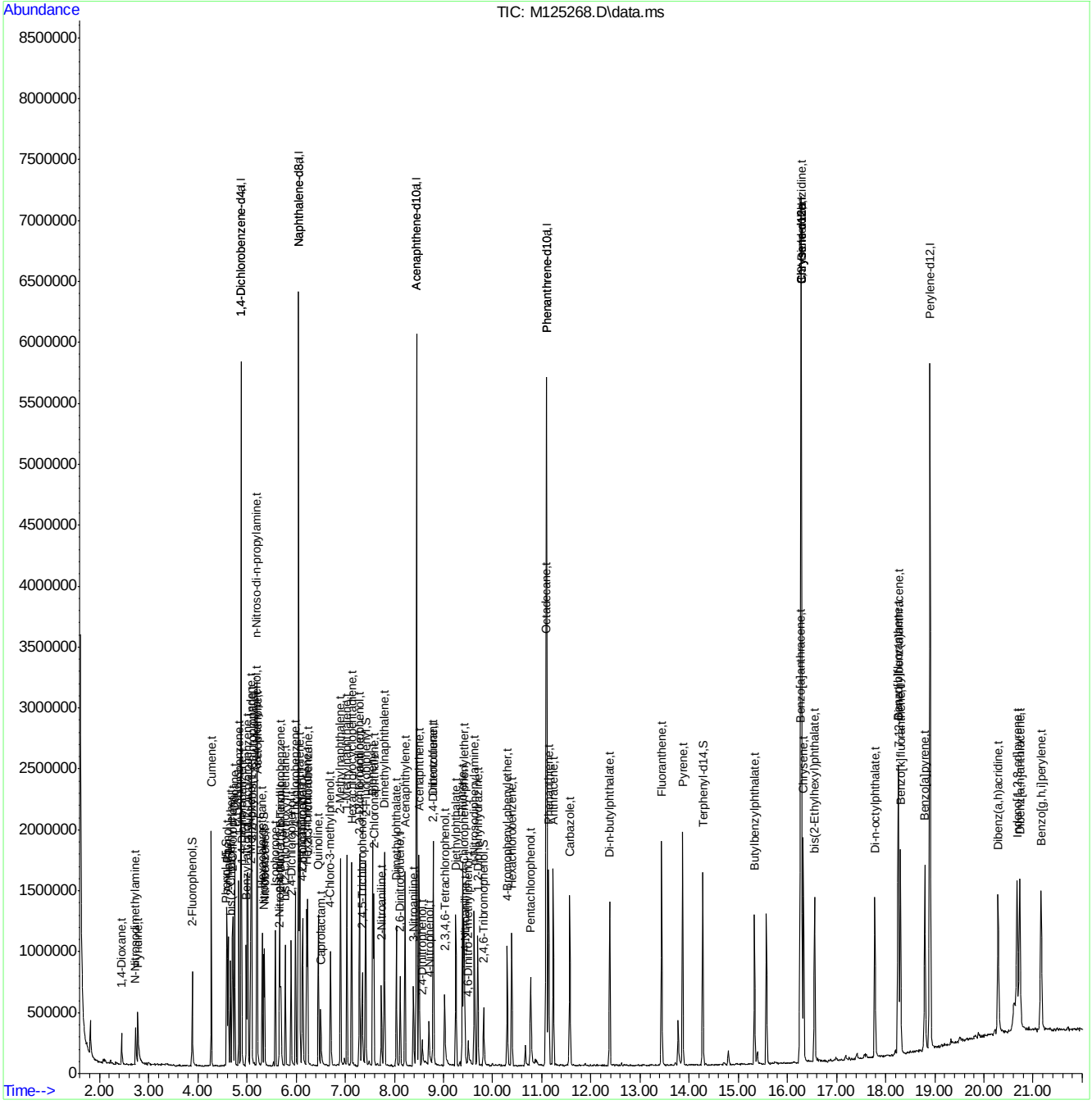
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125268.D
Acq On : 16 Jun 2016 3:49 pm
Operator : ashleyd
Sample : ic5307-10
Misc : op94571,em5307
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 20 09:47:37 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration



MM5307.M Mon Jun 20 09:47:43 2016 MSM Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125269.D
Acq On : 16 Jun 2016 4:18 pm
Operator : ashleyd
Sample : ic5307-5
Misc : op94571,em5307
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 09:48:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.879	152	834389	40.00	ppm	0.00
24) Naphthalene-d8	6.054	136	2995817	40.00	ppm	0.00
47) Acenaphthene-d10	8.452	164	1844928	40.00	ppm	0.00
69) Phenanthrene-d10	11.101	188	3294652	40.00	ppm	0.00
83) Chrysene-d12	16.282	240	3375248	40.00	ppm	0.00
91) Perylene-d12	18.904	264	3224503	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.879	152	834389	40.00	ppm	0.00
103) Acenaphthene-d10a	8.452	164	1844928	40.00	ppm	0.00
106) Chrysene-d12a	16.282	240	3375248	40.00	ppm	0.00
109) Phenanthrene-d10a	11.101	188	3294652	40.00	ppm	0.00
111) Naphthalene-d8a	6.054	136	2995817	40.00	ppm	0.00
113) Chrysene-d12b	16.282	240	3375248	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.885	112	134841	5.15	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.30%	
8) Phenol-d5	4.585	99	188201	5.57	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.14%	
25) Nitrobenzene-d5	5.343	82	151224	5.46	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.92%	
51) 2-Fluorobiphenyl	7.416	172	362069	5.64	ppm	0.00
Spiked Amount 50.000			Recovery	=	11.28%	
73) 2,4,6-Tribromophenol	9.819	330	46550	4.87	ppm	0.00
Spiked Amount 50.000			Recovery	=	9.74%	
85) Terphenyl-d14	14.279	244	427656	5.38	ppm	0.00
Spiked Amount 50.000			Recovery	=	10.76%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.448	88	68187	5.47	ppm	99
3) Pyridine	2.785	79	147036	5.40	ppm	98
4) N-Nitrosodimethylamine	2.737	42	68874	5.05	ppm	91
6) Indene	5.092	116	268465	5.74	ppm	95
7) Cumene	4.275	105	357284	5.61	ppm	98
9) Phenol	4.596	94	204017	5.53	ppm	100
10) Aniline	4.622	93	213276	5.68	ppm	89
11) bis(2-Chloroethyl)ether	4.665	93	141963	5.55	ppm	97
12) 2-Chlorophenol	4.713	128	162125	5.54	ppm	99
13) Decane	4.750	43	148448	5.78	ppm	100
14) 1,3-Dichlorobenzene	4.836	146	188868	5.70	ppm	98
15) 1,4-Dichlorobenzene	4.889	146	173662	5.47	ppm	99
16) Benzyl alcohol	4.985	108	93773	5.35	ppm	99
17) 1,2-Dichlorobenzene	5.017	146	173472	5.71	ppm	99
18) Acetophenone	5.210	105	199221	5.76	ppm	86
19) 2-Methylphenol	5.076	108	142188	5.68	ppm	99
20) 2,2'-oxybis(1-Chloropr...	5.098	121	50455	5.69	ppm	91

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125269.D
Acq On : 16 Jun 2016 4:18 pm
Operator : ashleyd
Sample : ic5307-5
Misc : op94571,em5307
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 09:48:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
21) 3&4-Methylphenol	5.199	108	147056	5.53	ppm		91
22) n-Nitroso-di-n-propyla...	5.204	70	104613	5.77	ppm		95
23) Hexachloroethane	5.311	201	63906	5.35	ppm		96
26) Nitrobenzene	5.359	77	153994	5.61	ppm		95
27) Quinoline	6.454	129	322318	5.46	ppm		97
28) Isophorone	5.578	82	272654	5.53	ppm		92
29) 2-Nitrophenol	5.658	139	78537	5.16	ppm		93
30) 2,4-Dimethylphenol	5.690	107	117977	5.04	ppm		100
32) bis(2-Chloroethoxy)met...	5.781	93	163088	5.55	ppm		97
33) 2,4-Dichlorophenol	5.899	162	131663	5.41	ppm		94
34) 2,6-Dichlorophenol	6.139	162	130012	5.60	ppm		94
35) 1,3,5-Trichlorobenzene	5.674	180	164814	5.70	ppm		96
36) 1,2,4-Trichlorobenzene	5.990	180	160604	5.65	ppm		95
37) 1,2,3-Trichlorobenzene	6.235	180	154064	5.68	ppm		98
38) Naphthalene	6.075	128	451842	5.58	ppm		99
39) 4-Chloroaniline	6.128	127	193505	5.64	ppm		99
40) 2,3-Dichloroaniline	7.287	161	173239	5.60	ppm		98
41) Caprolactam	6.497	55	56376	5.30	ppm		91
42) Hexachlorobutadiene	6.219	225	83747	5.57	ppm		94
43) 4-Chloro-3-methylphenol	6.700	107	121346	5.26	ppm		96
44) 2-Methylnaphthalene	6.903	141	276216	5.58	ppm		95
45) 1-Methylnaphthalene	7.036	142	330907	5.58	ppm		99
46) Dimethylnaphthalene	7.795	156	292015	5.44	ppm		96
48) Hexachlorocyclopentadiene	7.127	237	163160	10.77	ppm		94
49) 2,4,6-Trichlorophenol	7.298	196	90953	5.25	ppm		95
50) 2,4,5-Trichlorophenol	7.346	196	102589	5.33	ppm		98
52) 2-Chloronaphthalene	7.581	162	311608	5.70	ppm		99
53) Biphenyl	7.560	154	404367	5.61	ppm		97
54) 2-Nitroaniline	7.736	65	74930	5.39	ppm		92
55) Dimethylphthalate	8.040	163	347020	5.50	ppm		97
56) Acenaphthylene	8.217	152	506189	5.67	ppm		98
57) 2,6-Dinitrotoluene	8.121	165	71011	5.27	ppm		93
58) 3-Nitroaniline	8.388	138	80790	5.20	ppm		94
59) Acenaphthene	8.505	153	305347	5.48	ppm		93
60) 2,4-Dinitrophenol	8.575	184	23584	10.20	ppm		74
61) 4-Nitrophenol	8.703	109	28526	4.24	ppm	#	83
62) Dibenzofuran	8.794	168	451890	5.77	ppm		99
63) 2,4-Dinitrotoluene	8.788	165	100038	5.68	ppm		95
64) 2,3,4,6-Tetrachlorophenol	9.023	232	69593	4.87	ppm		92
65) Diethylphthalate	9.253	149	329585	5.52	ppm		99
66) Fluorene	9.386	166	370698	5.60	ppm		95
67) 4-Chlorophenyl-phenyle...	9.413	204	180468	5.66	ppm		99
68) 4-Nitroaniline	9.429	138	81636	5.37	ppm		97
70) 4,6-Dinitro-2-methylph...	9.509	198	19405	4.77	ppm		89
71) n-Nitrosodiphenylamine	9.627	169	256819	5.47	ppm		99
72) 1,2-Diphenylhydrazine	9.696	77	301278	5.45	ppm		97
74) 4-Bromophenyl-phenylether	10.300	248	105908	5.38	ppm		96
75) Hexachlorobenzene	10.391	284	118003	5.31	ppm		95
76) Pentachlorophenol	10.780	266	36442	10.68	ppm		92
77) Phenanthrene	11.138	178	521259	5.44	ppm		99

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125269.D
Acq On : 16 Jun 2016 4:18 pm
Operator : ashleyd
Sample : ic5307-5
Misc : op94571,em5307
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 09:48:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Anthracene	11.234	178	540514	5.59	ppm	98
79)	Carbazole	11.571	167	499932	5.38	ppm	99
80)	Di-n-butylphthalate	12.383	149	550686	5.33	ppm	99
81)	Fluoranthene	13.440	202	615205	5.53	ppm	97
82)	Octadecane	11.085	57	170510	5.29	ppm	95
84)	Pyrene	13.868	202	651005	5.46	ppm	97
86)	Butylbenzylphthalate	15.331	149	232419	4.90	ppm	96
87)	Benzo[a]anthracene	16.260	228	559773	5.29	ppm	96
88)	3,3'-Dichlorobenzidine	16.282	252	180599	4.97	ppm	97
89)	Chrysene	16.324	228	559642	5.30	ppm	98
90)	bis(2-Ethylhexyl)phtha...	16.554	149	316755	5.02	ppm	99
92)	Di-n-octylphthalate	17.777	149	520752	5.27	ppm	99
93)	Benzo[b]fluoranthene	18.253	252	596146	5.78	ppm	99
94)	Benzo[k]fluoranthene	18.301	252	563642	5.77	ppm	99
95)	Benzo[a]pyrene	18.797	252	526341	5.65	ppm	95
96)	Indeno[1,2,3-cd]pyrene	20.672	276	488917	5.44	ppm	98
97)	Dibenz(a,h)acridine	20.288	279	446782	5.47	ppm	80
98)	Dibenz[a,h]anthracene	20.726	278	514164	5.45	ppm	98
99)	7,12-Dimethylbenz(a)an...	18.263	256	185009	4.66	ppm	98
100)	Benzo[g,h,i]perylene	21.158	276	552270	5.65	ppm	97

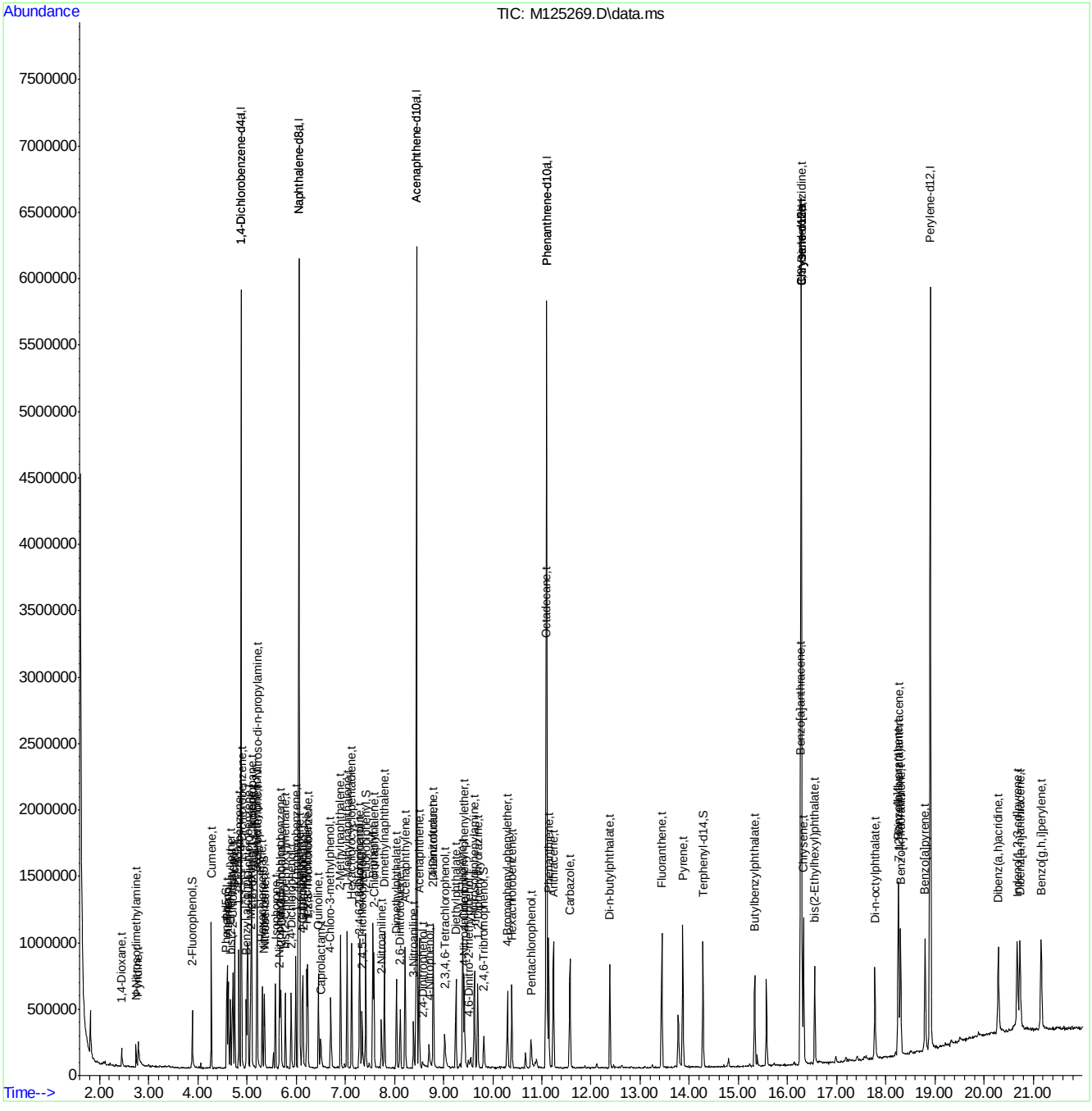
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5307\
Data File : M125269.D
Acq On : 16 Jun 2016 4:18 pm
Operator : ashleyd
Sample : ic5307-5
Misc : op94571,em5307
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 20 09:48:33 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jun 20 09:44:47 2016
Response via : Initial Calibration



MM5307.M Mon Jun 20 09:48:39 2016 MSM Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125280.D
Acq On : 16 Jun 2016 9:54 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 17 17:43:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.881	152	825805	40.00	ppm	0.00
24) Naphthalene-d8	6.050	136	3233669	40.00	ppm	0.00
47) Acenaphthene-d10	8.454	164	1970690	40.00	ppm	0.00
69) Phenanthrene-d10	11.098	188	3753564	40.00	ppm	0.00
83) Chrysene-d12	16.278	240	3744917	40.00	ppm	0.00
91) Perylene-d12	18.906	264	3453933	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.881	152	825805	40.00	ppm	0.00
103) Acenaphthene-d10a	8.454	164	1970690	40.00	ppm	0.00
106) Chrysene-d12a	16.278	240	3744917	40.00	ppm	0.00
109) Phenanthrene-d10a	11.098	188	3753564	40.00	ppm	0.00
111) Naphthalene-d8a	6.050	136	3233669	40.00	ppm	0.00
113) Chrysene-d12b	16.278	240	3744917	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
3) Pyridine	2.835	79	1401355	51.98	ppm	98
10) Aniline	4.624	93	2205001	59.30	ppm	66
16) Benzyl alcohol	4.987	108	942293	54.34	ppm	92
39) 4-Chloroaniline	6.130	127	1788183	48.28	ppm	99
44) 2-Methylnaphthalene	6.905	141	2323211	43.49	ppm	100
54) 2-Nitroaniline	7.738	65	744420	50.15	ppm	94
58) 3-Nitroaniline	8.395	138	855171	51.56	ppm	98
62) Dibenzofuran	8.796	168	4042531	48.34	ppm	100
68) 4-Nitroaniline	9.442	138	849097	52.30	ppm	97
79) Carbazole	11.578	167	4748600	44.84	ppm	99

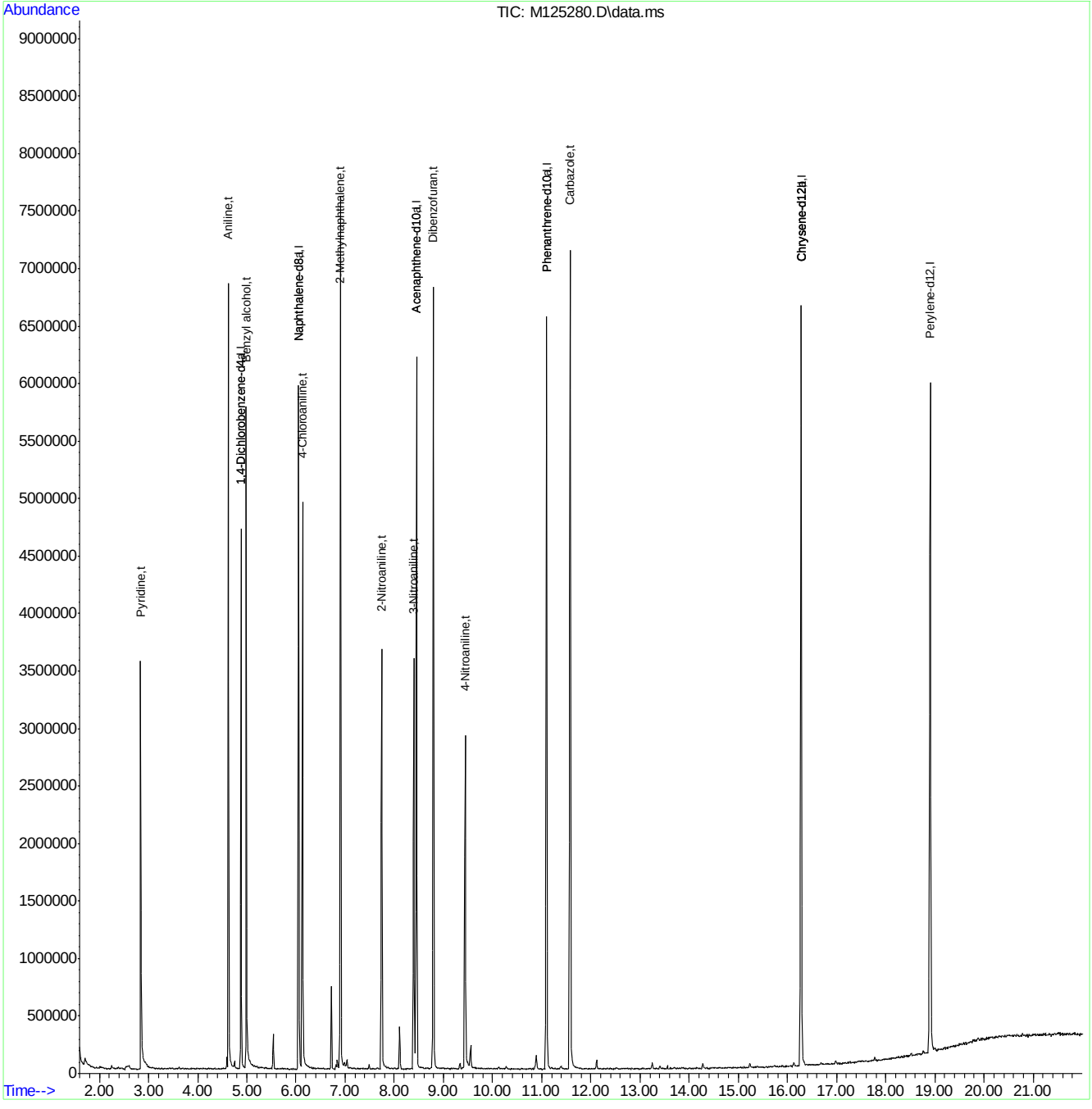
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125280.D
Acq On : 16 Jun 2016 9:54 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 17 17:43:48 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration



MM5307.M Mon Jun 20 09:04:08 2016 MSM

SGS ACCUTEST JC23654

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
06/20/16 12:39

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125281.D
Acq On : 16 Jun 2016 10:23 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 09:04:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.879	152	848771	40.00	ppm	0.00
24) Naphthalene-d8	6.054	136	3035646	40.00	ppm	0.00
47) Acenaphthene-d10	8.452	164	1917205	40.00	ppm	0.00
69) Phenanthrene-d10	11.101	188	3363557	40.00	ppm	0.00
83) Chrysene-d12	16.287	240	2817317	40.00	ppm	0.00
91) Perylene-d12	18.904	264	2977607	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.879	152	848771	40.00	ppm	0.00
103) Acenaphthene-d10a	8.452	164	1917205	40.00	ppm	0.00
106) Chrysene-d12a	16.287	240	2817317	40.00	ppm	0.00
109) Phenanthrene-d10a	11.101	188	3363557	40.00	ppm	0.00
111) Naphthalene-d8a	6.054	136	3035646	40.00	ppm	0.00
113) Chrysene-d12b	16.287	240	2817317	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.737	42	628661	45.29	ppm	83
11) bis(2-Chloroethyl)ether	4.665	93	1342363	51.62	ppm	96
14) 1,3-Dichlorobenzene	4.836	146	1609068	47.72	ppm	97
15) 1,4-Dichlorobenzene	4.895	146	1530351	47.40	ppm	99
17) 1,2-Dichlorobenzene	5.017	146	1543172	49.94	ppm	97
20) 2,2'-oxybis(1-Chloropr...	5.098	121	435399	48.31	ppm	94
22) n-Nitroso-di-n-propyla...	5.204	70	898366	48.69	ppm	96
23) Hexachloroethane	5.311	201	592717	48.81	ppm	94
26) Nitrobenzene	5.359	77	1283703	46.16	ppm	97
28) Isophorone	5.573	82	2429048	48.59	ppm	97
32) bis(2-Chloroethoxy)met...	5.781	93	1502472	50.45	ppm	98
36) 1,2,4-Trichlorobenzene	5.989	180	1371062	47.57	ppm	98
38) Naphthalene	6.075	128	3768868	45.92	ppm	99
42) Hexachlorobutadiene	6.219	225	747081	49.02	ppm	98
48) Hexachlorocyclopentadiene	7.132	237	701950	44.60	ppm	99
52) 2-Chloronaphthalene	7.581	162	2741166	48.25	ppm	98
55) Dimethylphthalate	8.046	163	2937774	44.80	ppm	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125281.D
Acq On : 16 Jun 2016 10:23 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 09:04:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56)	Acenaphthylene	8.217	152	4066388	43.85	ppm	99
57)	2,6-Dinitrotoluene	8.126	165	654498	46.75	ppm	98
59)	Acenaphthene	8.505	153	2561677	44.28	ppm	96
63)	2,4-Dinitrotoluene	8.794	165	865522	47.27	ppm	73
65)	Diethylphthalate	9.253	149	2748251	44.33	ppm	99
66)	Fluorene	9.386	166	3013848	43.83	ppm	96
67)	4-Chlorophenyl-phenyle...	9.418	204	1498451	45.19	ppm	96
71)	n-Nitrosodiphenylamine	9.632	169	2069817	43.20	ppm	99
72)	1,2-Diphenylhydrazine	9.696	77	2442604	43.30	ppm	99
74)	4-Bromophenyl-phenylether	10.305	248	926571	46.07	ppm	97
75)	Hexachlorobenzene	10.396	284	980972	43.24	ppm	98
77)	Phenanthrene	11.144	178	4148830	42.38	ppm	100
78)	Anthracene	11.240	178	4171210	42.26	ppm	100
80)	Di-n-butylphthalate	12.388	149	4711948	44.68	ppm	100
81)	Fluoranthene	13.446	202	4848841	42.71	ppm	98
84)	Pyrene	13.873	202	4924244	49.50	ppm	100
86)	Butylbenzylphthalate	15.336	149	2049906	51.78	ppm	99
87)	Benzo[a]anthracene	16.266	228	4229872	47.87	ppm	99
89)	Chrysene	16.335	228	4097982	46.46	ppm	99
90)	bis(2-Ethylhexyl)phtha...	16.554	149	2705533	51.41	ppm	99
92)	Di-n-octylphthalate	17.783	149	4702528	51.56	ppm	99
93)	Benzo[b]fluoranthene	18.263	252	4192562	44.03	ppm	98
94)	Benzo[k]fluoranthene	18.311	252	4277711	47.45	ppm	99
95)	Benzo[a]pyrene	18.808	252	4002288	46.54	ppm	100
96)	Indeno[1,2,3-cd]pyrene	20.688	276	3825805m	46.13	ppm	
98)	Dibenz[a,h]anthracene	20.742	278	4002852	45.97	ppm	99
100)	Benzo[g,h,i]perylene	21.180	276	3978472	44.06	ppm	98

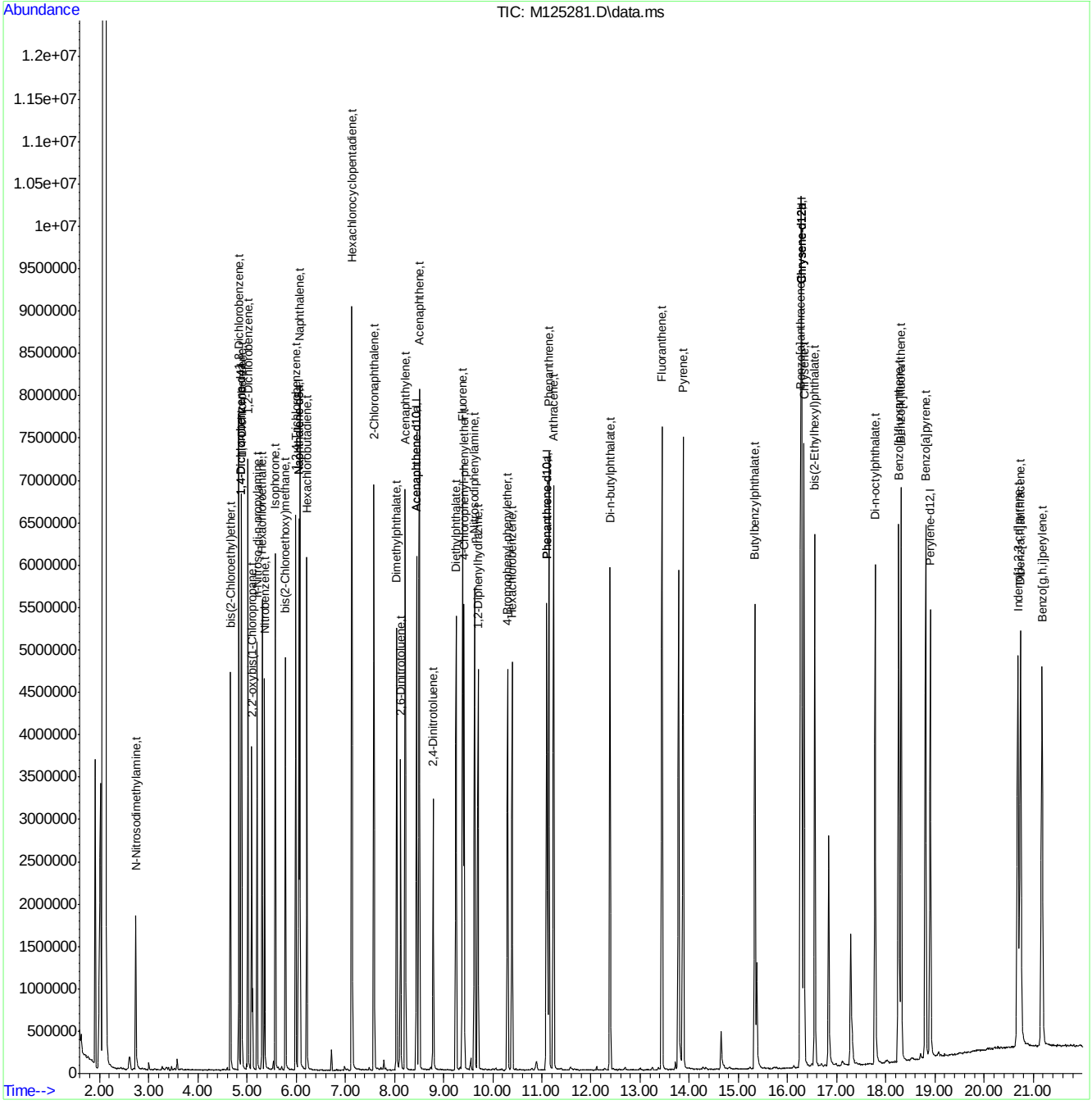
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125281.D
Acq On : 16 Jun 2016 10:23 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 09:04:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration



SGS ACCUTEST JC23654

Manual Integration Approval Summary

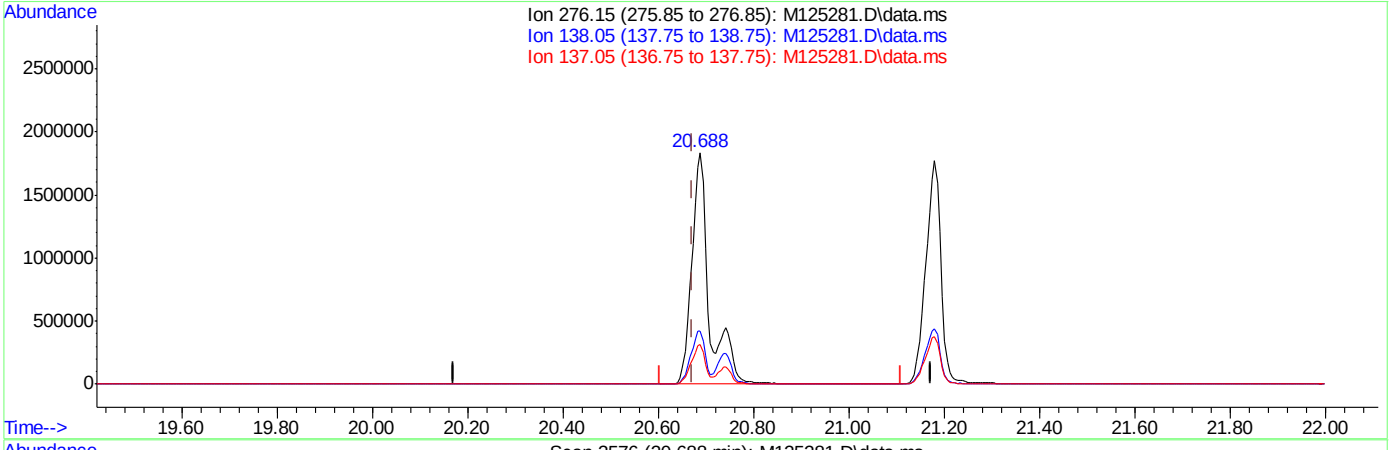
Sample Number:	EM5308-ICV5307	**Method:**	SW846 8270D
Lab FileID:	M125281.D	**Analyst approved:**	06/20/16 09:34 Ashley Dye
Injection Time:	06/16/16 22:23	**Supervisor approved:**	06/20/16 12:39 Nina Pandya

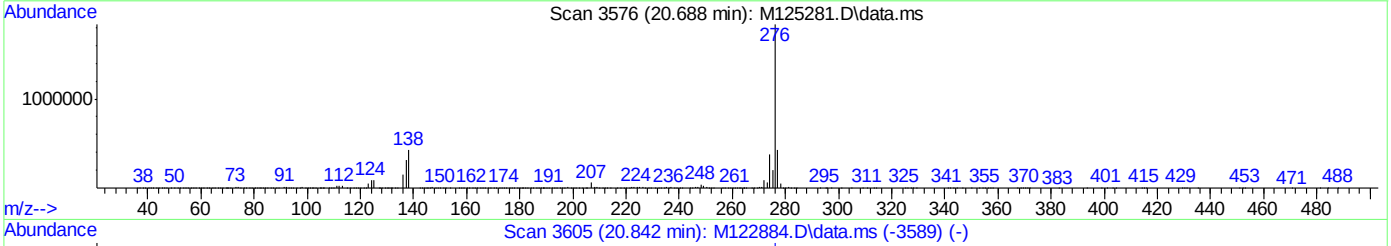
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.69	Overlapping peak

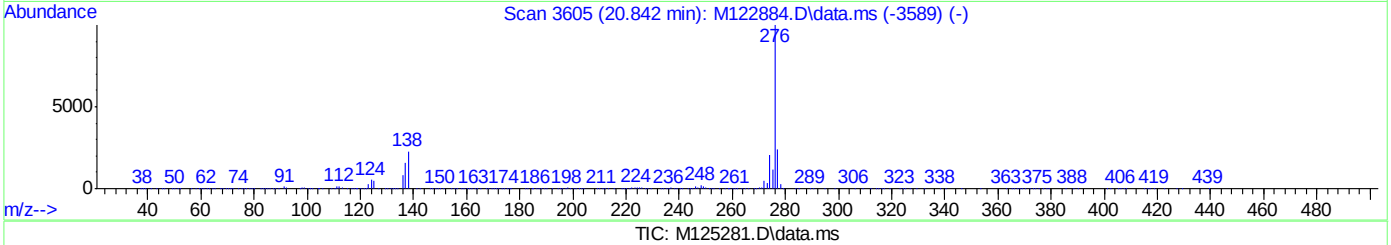
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125281.D
Acq On : 16 Jun 2016 10:23 pm
Operator : juliusj
Sample : icv5308-50
Misc : op94571,em5308
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 17 17:44:05 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration







TIC: M125281.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

20.688min (+0.016) 57.53ppm

response 4771282

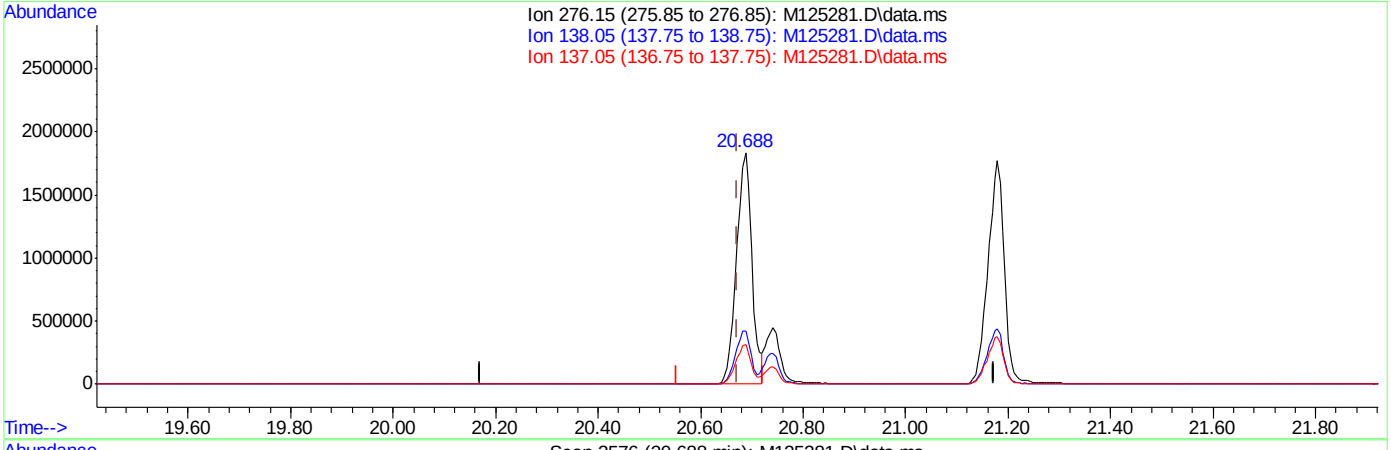
Ion	Exp%	Act%
276.15	100	100
138.05	22.30	23.03
137.05	16.40	17.00
0.00	0.00	0.00

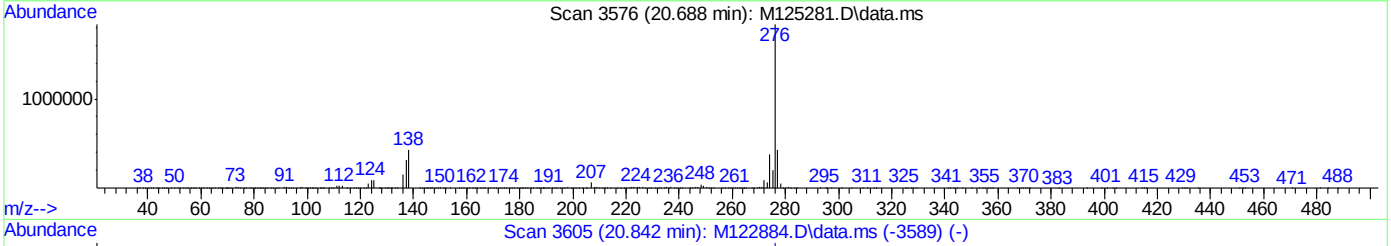
SGS ACCUTEST JC23654

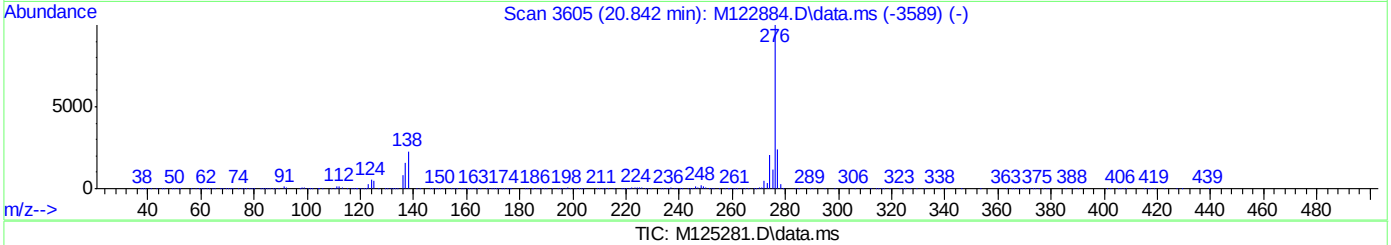
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125281.D
Acq On : 16 Jun 2016 10:23 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 20 09:04:22 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration







TIC: M125281.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

20.688min (+0.016) 46.13ppm m

response 3825805

Ion	Exp%	Act%
276.15	100	100
138.05	22.30	23.03
137.05	16.40	17.02
0.00	0.00	0.00

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125282.D
Acq On : 16 Jun 2016 10:51 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 20 09:05:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.878	152	957827	40.00	ppm	0.00
24) Naphthalene-d8	6.053	136	3496127	40.00	ppm	0.00
47) Acenaphthene-d10	8.451	164	2100448	40.00	ppm	0.00
69) Phenanthrene-d10	11.100	188	3348307	40.00	ppm	0.00
83) Chrysene-d12	16.281	240	3626837	40.00	ppm	0.00
91) Perylene-d12	18.903	264	3210567	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.878	152	957827	40.00	ppm	0.00
103) Acenaphthene-d10a	8.451	164	2100448	40.00	ppm	0.00
106) Chrysene-d12a	16.281	240	3626837	40.00	ppm	0.00
109) Phenanthrene-d10a	11.100	188	3348307	40.00	ppm	0.00
111) Naphthalene-d8a	6.053	136	3496127	40.00	ppm	0.00
113) Chrysene-d12b	16.281	240	3626837	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.458	88	600513	41.97	ppm	100
6) Indene	5.091	116	2624238	48.90	ppm	99
7) Cumene	4.274	105	3194220	43.68	ppm	99
13) Decane	4.749	43	1272514	43.16	ppm	98
18) Acetophenone	5.203	105	1863100	46.95	ppm	85
27) Quinoline	6.448	129	2934852	42.61	ppm	99
40) 2,3-Dichloroaniline	7.292	161	1473404	40.84	ppm	98
41) Caprolactam	6.507	55	551106	44.43	ppm	98
45) 1-Methylnaphthalene	7.035	142	2927564	42.32	ppm	100
46) Dimethylnaphthalene	7.799	156	2688634	42.96	ppm	98
48) Hexachlorocyclopentadiene	7.132	237	921789	53.45	ppm	98
53) Biphenyl	7.559	154	3641037	44.38	ppm	100
82) Octadecane	11.084	57	1605286	49.04	ppm	97
99) 7,12-Dimethylbenz(a)an...	18.268	256	1832205	46.39	ppm	98

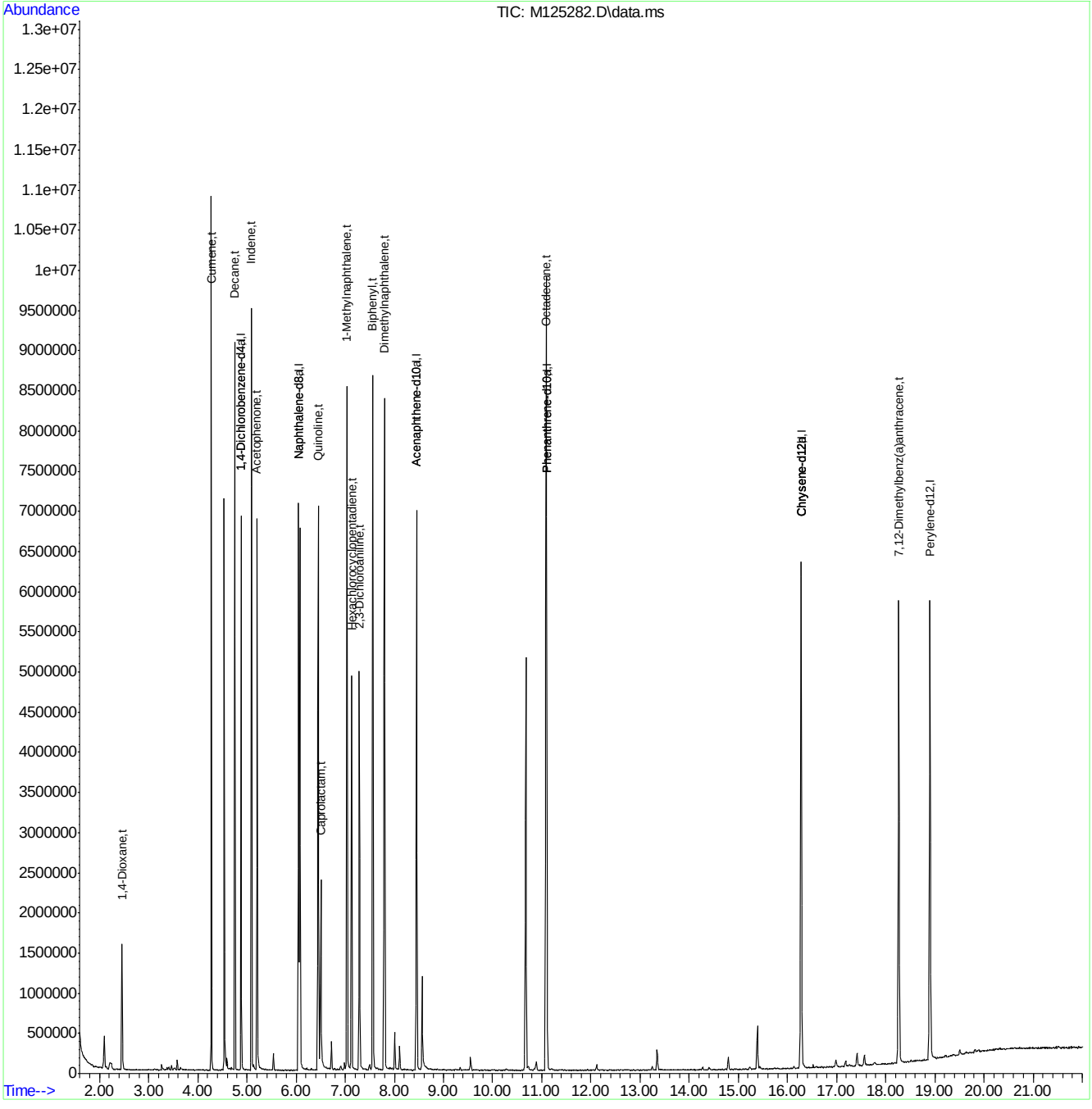
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125282.D
Acq On : 16 Jun 2016 10:51 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 20 09:05:39 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration



MM5307.M Mon Jun 20 09:05:43 2016 MSM

Page: 2

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125283.D
Acq On : 16 Jun 2016 11:20 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 17 17:49:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.878	152	1033084	40.00	ppm	0.00
24) Naphthalene-d8	6.053	136	3639354	40.00	ppm	0.00
47) Acenaphthene-d10	8.451	164	2221550	40.00	ppm	0.00
69) Phenanthrene-d10	11.100	188	3912259	40.00	ppm	0.00
83) Chrysene-d12	16.281	240	3809671	40.00	ppm	0.00
91) Perylene-d12	18.903	264	3513822	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.878	152	1033084	40.00	ppm	0.00
103) Acenaphthene-d10a	8.451	164	2221550	40.00	ppm	0.00
106) Chrysene-d12a	16.281	240	3809671	40.00	ppm	0.00
109) Phenanthrene-d10a	11.100	188	3912259	40.00	ppm	0.00
111) Naphthalene-d8a	6.053	136	3639354	40.00	ppm	0.00
113) Chrysene-d12b	16.281	240	3809671	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.884	112	1461517	45.07	ppm	0.00
Spiked Amount 50.000			Recovery = 90.14%			
8) Phenol-d5	4.589	99	1796128	42.95	ppm	0.00
Spiked Amount 50.000			Recovery = 85.90%			
25) Nitrobenzene-d5	5.342	82	1487446	44.24	ppm	0.00
Spiked Amount 50.000			Recovery = 88.48%			
51) 2-Fluorobiphenyl	7.415	172	3466366	44.81	ppm	0.00
Spiked Amount 50.000			Recovery = 89.62%			
73) 2,4,6-Tribromophenol	9.813	330	462517	40.79	ppm	0.00
Spiked Amount 50.000			Recovery = 81.58%			
85) Terphenyl-d14	14.283	244	3630836	40.44	ppm	0.00
Spiked Amount 50.000			Recovery = 80.88%			
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery = 0.00%			

Target Compounds Qvalue

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

7.6.68

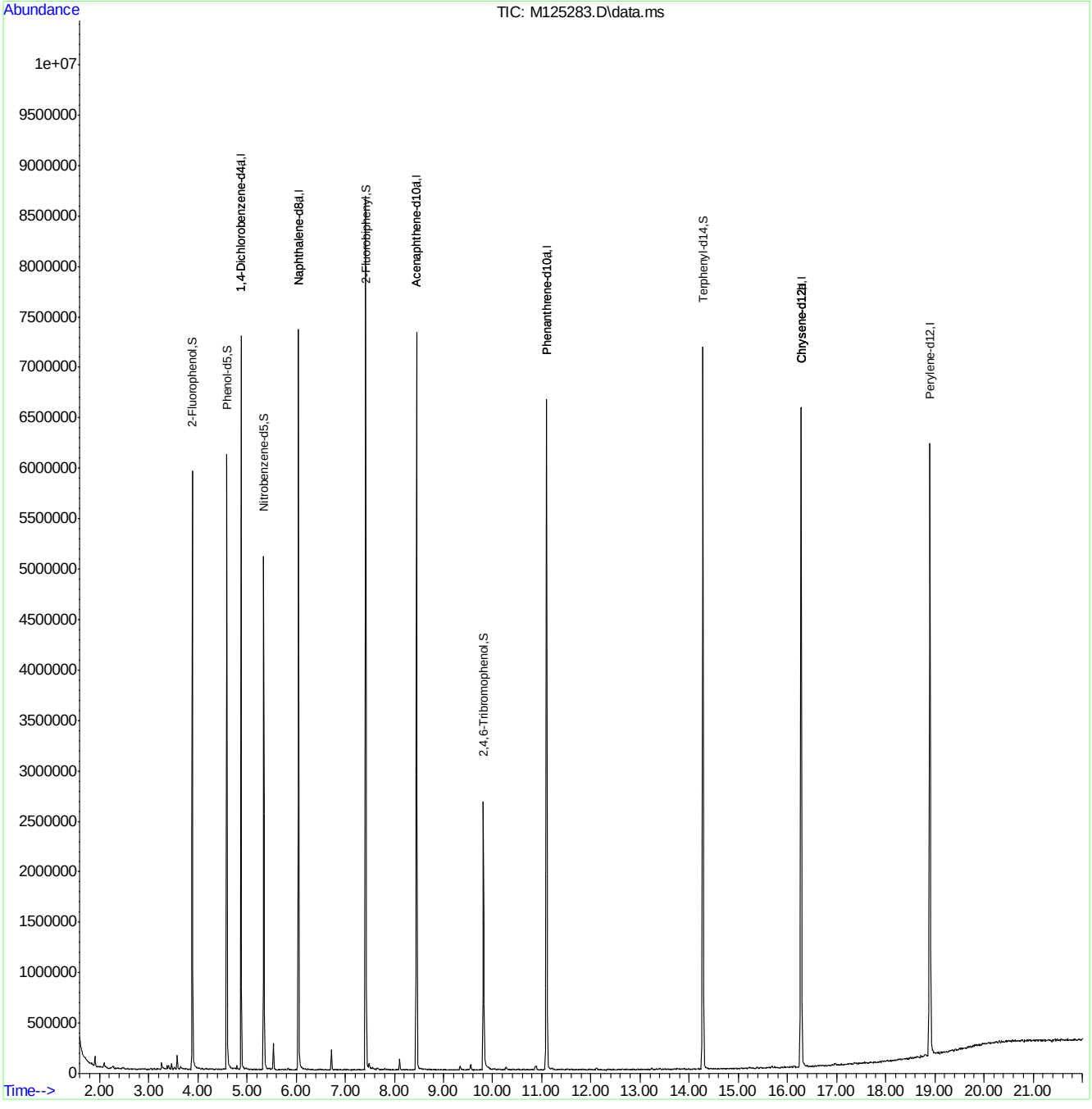
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125283.D
Acq On : 16 Jun 2016 11:20 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 17 17:49:20 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration



MM5307.M Mon Jun 20 09:06:26 2016 MSM

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125284.D
Acq On : 16 Jun 2016 11:49 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 17 17:50:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.878	152	886541	40.00	ppm	0.00
24) Naphthalene-d8	6.053	136	3178774	40.00	ppm	0.00
47) Acenaphthene-d10	8.451	164	1982125	40.00	ppm	0.00
69) Phenanthrene-d10	11.095	188	3533558	40.00	ppm	0.00
83) Chrysene-d12	16.276	240	3441708	40.00	ppm	0.00
91) Perylene-d12	18.903	264	3421872	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.878	152	886541	40.00	ppm	0.00
103) Acenaphthene-d10a	8.451	164	1982125	40.00	ppm	0.00
106) Chrysene-d12a	16.276	240	3441708	40.00	ppm	0.00
109) Phenanthrene-d10a	11.095	188	3533558	40.00	ppm	0.00
111) Naphthalene-d8a	6.053	136	3178774	40.00	ppm	0.00
113) Chrysene-d12b	16.276	240	3441708	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	0.000	57	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
88) 3,3'-Dichlorobenzidine	16.286	252	1657824	44.78	ppm	99

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

7.6.69

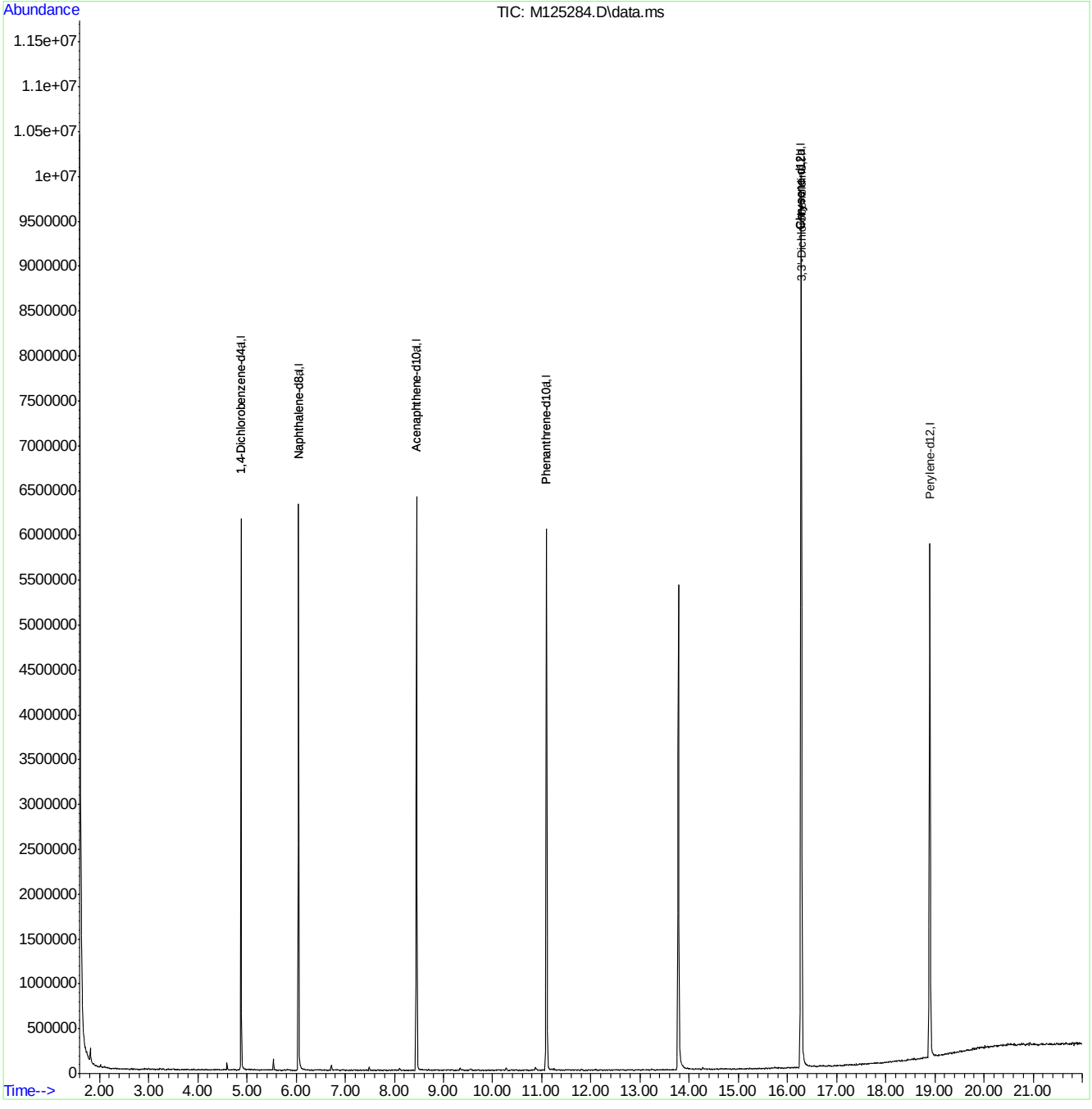
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5308\
Data File : M125284.D
Acq On : 16 Jun 2016 11:49 pm
Operator : juliusj
Sample : icv5307-50
Misc : op94571,em5308
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 17 17:50:52 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration



MM5307.M Mon Jun 20 09:56:10 2016 MSM

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5310\
Data File : M125314.D
Acq On : 19 Jun 2016 8:09 am
Operator : kristis
Sample : icv5307-50
Misc : op94571,em5310,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 08:36:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.872	152	956056	40.00	ppm	0.00
24) Naphthalene-d8	6.042	136	3257019	40.00	ppm	-0.01
47) Acenaphthene-d10	8.445	164	1987547	40.00	ppm	0.00
69) Phenanthrene-d10	11.089	188	3315098	40.00	ppm	-0.01
83) Chrysene-d12	16.264	240	3159544	40.00	ppm	-0.02
91) Perylene-d12	18.892	264	2831292	40.00	ppm	-0.01
101) 1,4-Dichlorobenzene-d4a	4.872	152	956056	40.00	ppm	0.00
103) Acenaphthene-d10a	8.445	164	1987547	40.00	ppm	0.00
106) Chrysene-d12a	16.264	240	3159544	40.00	ppm	-0.02
109) Phenanthrene-d10a	11.089	188	3315098	40.00	ppm	0.00
111) Naphthalene-d8a	6.042	136	3257019	40.00	ppm	-0.01
113) Chrysene-d12b	16.264	240	3159544	40.00	ppm	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
8) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
25) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
51) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
73) 2,4,6-Tribromophenol	0.000	330	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
85) Terphenyl-d14	0.000	244	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
108) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
110) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						Qvalue
9) Phenol	4.600	94	1885810	44.58	ppm	96
12) 2-Chlorophenol	4.712	128	1573892	46.98	ppm	99
19) 2-Methylphenol	5.075	108	1374922	47.90	ppm	98
21) 3&4-Methylphenol	5.198	108	1441323	47.31	ppm #	77
29) 2-Nitrophenol	5.652	139	891155	53.89	ppm	95
30) 2,4-Dimethylphenol	5.689	107	1335677	52.45	ppm	98
33) 2,4-Dichlorophenol	5.897	162	1326439	50.10	ppm	98
34) 2,6-Dichlorophenol	6.132	162	1251531	49.55	ppm	96
43) 4-Chloro-3-methylphenol	6.699	107	1180676	47.08	ppm	97
49) 2,4,6-Trichlorophenol	7.286	196	976390	52.28	ppm	99
50) 2,4,5-Trichlorophenol	7.350	196	951837	45.90	ppm	98
60) 2,4-Dinitrophenol	8.563	184	320151	41.34	ppm	86
61) 4-Nitrophenol	8.718	109	339843	48.84	ppm	95
64) 2,3,4,6-Tetrachlorophenol	9.017	232	795403	51.67	ppm	98
70) 4,6-Dinitro-2-methylph...	9.492	198	574368	45.68	ppm	99
76) Pentachlorophenol	10.769	266	501491	42.91	ppm	97

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5310\
Data File : M125314.D
Acq On : 19 Jun 2016 8:09 am
Operator : kristis
Sample : icv5307-50
Misc : op94571,em5310,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 08:36:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration

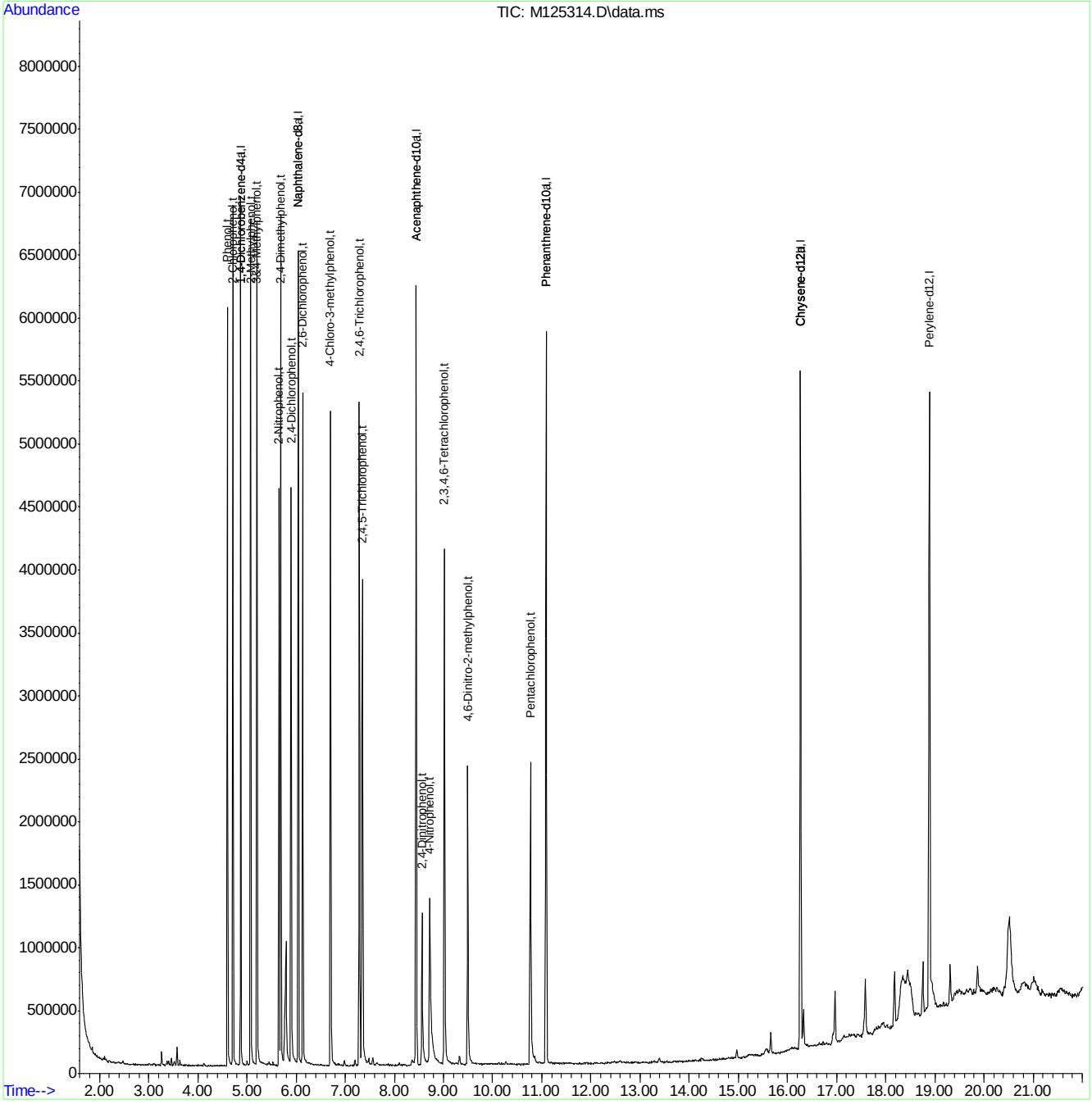
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5310\
Data File : M125314.D
Acq On : 19 Jun 2016 8:09 am
Operator : kristis
Sample : icv5307-50
Misc : op94571,em5310,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 08:36:49 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Fri Jun 17 17:40:20 2016
Response via : Initial Calibration



MM5307.M Mon Jun 20 09:28:53 2016 MSM

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Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/12/16 11:53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126011.D
Acq On : 11 Jul 2016 10:28 am
Operator : ashleyd
Sample : cc5307-50
Misc : op95217,em5342
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 11:01:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.745	152	453200	40.00	ppm	0.00
24) Naphthalene-d8	5.894	136	1808622	40.00	ppm	0.00
47) Acenaphthene-d10	8.260	164	1177828	40.00	ppm	0.00
69) Phenanthrene-d10	10.898	188	2195081	40.00	ppm	0.00
83) Chrysene-d12	16.095	240	2210397	40.00	ppm	0.00
91) Perylene-d12	18.728	264	1945320	40.00	ppm	0.00
101) 1,4-Dichlorobenzene-d4a	4.745	152	453200	40.00	ppm	0.00
103) Acenaphthene-d10a	8.260	164	1177828	40.00	ppm	0.00
106) Chrysene-d12a	16.095	240	2210397	40.00	ppm	0.00
108) Naphthalene-d8a	5.894	136	1808622	40.00	ppm	0.00
110) Chrysene-d12b	16.095	240	2210397	40.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.795	112	655873	45.71	ppm	0.02
Spiked Amount 50.000			Recovery	=	91.42%	
8) Phenol-d5	4.510	99	871737	47.50	ppm	0.04
Spiked Amount 50.000			Recovery	=	95.00%	
25) Nitrobenzene-d5	5.205	82	923116	55.23	ppm	0.00
Spiked Amount 50.000			Recovery	=	110.46%	
51) 2-Fluorobiphenyl	7.234	172	1730031	42.17	ppm	-0.01
Spiked Amount 50.000			Recovery	=	84.34%	
73) 2,4,6-Tribromophenol	9.638	330	295702	46.26	ppm	0.00
Spiked Amount 50.000			Recovery	=	92.52%	
85) Terphenyl-d14	14.076	244	2277276	43.73	ppm	0.00
Spiked Amount 50.000			Recovery	=	87.46%	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.294	88	276824	40.26	ppm	96
3) Pyridine	2.636	79	736474	49.47	ppm	92
4) N-Nitrosodimethylamine	2.598	42	455868	60.64	ppm	75
6) Indene	4.948	116	1397469	54.99	ppm	99
7) Cumene	4.142	105	1889599	54.62	ppm	96
9) Phenol	4.516	94	1080405	53.88	ppm	93
10) Aniline	4.500	93	1214599	59.53	ppm #	48
11) bis(2-Chloroethyl)ether	4.537	93	647823	46.21	ppm	95
12) 2-Chlorophenol	4.601	128	793281	49.86	ppm	94
13) Decane	4.612	43	738600	52.90	ppm	97
14) 1,3-Dichlorobenzene	4.702	146	848378	47.13	ppm	97
15) 1,4-Dichlorobenzene	4.756	146	835494	48.46	ppm	93
16) Benzyl alcohol	4.868	108	523649	54.97	ppm	98
17) 1,2-Dichlorobenzene	4.879	146	786332	47.62	ppm	96
18) Acetophenone	5.071	105	1114586	59.33	ppm	96
19) 2-Methylphenol	4.975	108	693662	50.90	ppm	98
20) 2,2'-oxybis(1-Chloropr...	4.954	121	242178	50.33	ppm	99
21) 3&4-Methylphenol	5.098	108	766890	53.00	ppm #	79
22) n-Nitroso-di-n-propyla...	5.071	70	616611	62.21	ppm	94
23) Hexachloroethane	5.157	201	332198	51.24	ppm	95
26) Nitrobenzene	5.221	77	932593	55.78	ppm	83
27) Quinoline	6.294	129	1697245	47.48	ppm	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126011.D
Acq On : 11 Jul 2016 10:28 am
Operator : ashleyd
Sample : cc5307-50
Misc : op95217,em5342
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 11:01:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28)	Isophorone	5.434	82	1599339	53.02	ppm		98
29)	2-Nitrophenol	5.514	139	476498	51.81	ppm	#	77
30)	2,4-Dimethylphenol	5.568	107	814778	57.12	ppm		96
32)	bis(2-Chloroethoxy)met...	5.632	93	825918	46.54	ppm		98
33)	2,4-Dichlorophenol	5.771	162	700447	47.40	ppm		96
34)	2,6-Dichlorophenol	5.995	162	677506	48.13	ppm		93
35)	1,3,5-Trichlorobenzene	5.520	180	816385	46.83	ppm		99
36)	1,2,4-Trichlorobenzene	5.835	180	741755	43.21	ppm		98
37)	1,2,3-Trichlorobenzene	6.075	180	765392	46.77	ppm		97
38)	Naphthalene	5.915	128	2162179	44.26	ppm		99
39)	4-Chloroaniline	5.984	127	1050305	50.56	ppm		95
40)	2,3-Dichloroaniline	7.122	161	915269	49.08	ppm		95
41)	Caprolactam	6.406	55	384138	58.22	ppm		82
42)	Hexachlorobutadiene	6.043	225	452341	49.86	ppm		98
43)	4-Chloro-3-methylphenol	6.593	107	786457	56.31	ppm		89
44)	2-Methylnaphthalene	6.732	141	1432936	47.92	ppm		95
45)	1-Methylnaphthalene	6.860	142	1646433	45.99	ppm		95
46)	Dimethylnaphthalene	7.613	156	1555638	48.09	ppm		95
48)	Hexachlorocyclopentadiene	6.940	237	643816	66.61	ppm		98
49)	2,4,6-Trichlorophenol	7.143	196	548658	49.60	ppm		99
50)	2,4,5-Trichlorophenol	7.213	196	622333	50.64	ppm		97
52)	2-Chloronaphthalene	7.405	162	1513844	43.36	ppm		96
53)	Biphenyl	7.378	154	2103212	45.74	ppm		99
54)	2-Nitroaniline	7.581	65	639244	72.08	ppm	#	74
55)	Dimethylphthalate	7.859	163	1904019	47.16	ppm		100
56)	Acenaphthylene	8.030	152	2536333	44.52	ppm		98
57)	2,6-Dinitrotoluene	7.955	165	451122	52.48	ppm		81
58)	3-Nitroaniline	8.233	138	508943	51.30	ppm		81
59)	Acenaphthene	8.313	153	1531672	43.12	ppm		99
60)	2,4-Dinitrophenol	8.431	184	545184	100.76	ppm		71
61)	4-Nitrophenol	8.650	109	245325	57.14	ppm	#	1
62)	Dibenzofuran	8.601	168	2451561	49.06	ppm		93
63)	2,4-Dinitrotoluene	8.639	165	601614	53.34	ppm		96
64)	2,3,4,6-Tetrachlorophenol	8.858	232	492381	54.00	ppm		96
65)	Diethylphthalate	9.061	149	1926932	50.58	ppm		98
66)	Fluorene	9.194	166	1910668	45.25	ppm		98
67)	4-Chlorophenyl-phenyle...	9.216	204	926916	45.53	ppm		98
68)	4-Nitroaniline	9.290	138	513386	52.36	ppm		75
70)	4,6-Dinitro-2-methylph...	9.365	198	428325	50.66	ppm		92
71)	n-Nitrosodiphenylamine	9.445	169	1355846	43.17	ppm		94
72)	1,2-Diphenylhydrazine	9.499	77	1971492	53.56	ppm		97
74)	4-Bromophenyl-phenylether	10.097	248	575615	43.86	ppm		92
75)	Hexachlorobenzene	10.198	284	641929	43.35	ppm		91
76)	Pentachlorophenol	10.610	266	689913	81.35	ppm		99
77)	Phenanthrene	10.946	178	2713344	42.44	ppm		99
78)	Anthracene	11.042	178	2801520	43.39	ppm		99
79)	Carbazole	11.400	167	2783563	44.95	ppm		95
80)	Di-n-butylphthalate	12.169	149	3379930	49.11	ppm		98
81)	Fluoranthene	13.248	202	3310950	44.68	ppm		95
82)	Octadecane	10.861	57	1173870	54.34	ppm		96

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126011.D
Acq On : 11 Jul 2016 10:28 am
Operator : ashleyd
Sample : cc5307-50
Misc : op95217,em5342
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 11:01:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
84)	Pyrene	13.676	202	3347843	42.88	ppm	99
86)	Butylbenzylphthalate	15.118	149	1552247	49.99	ppm	88
87)	Benzo[a]anthracene	16.079	228	3015417	43.52	ppm	98
88)	3,3'-Dichlorobenzidine	16.095	252	1174149	49.34	ppm	98
89)	Chrysene	16.148	228	2993090	43.18	ppm	99
90)	bis(2-Ethylhexyl)phtha...	16.330	149	2094745	50.61	ppm	98
92)	Di-n-octylphthalate	17.558	149	3521201	59.09	ppm	99
93)	Benzo[b]fluoranthene	18.093	252	2881745	46.36	ppm	95
94)	Benzo[k]fluoranthene	18.135	252	2685712	45.40	ppm	98
95)	Benzo[a]pyrene	18.632	252	2568321	45.71	ppm	97
96)	Indeno[1,2,3-cd]pyrene	20.491	276	2185167m	40.22	ppm	
97)	Dibenz(a,h)acridine	20.106	279	2077503	42.08	ppm	93
98)	Dibenz[a,h]anthracene	20.528	278	2267755	39.95	ppm	94
99)	7,12-Dimethylbenz(a)an...	18.082	256	1422059	59.47	ppm	95
100)	Benzo[g,h,i]perylene	20.966	276	2225592	37.66	ppm	98

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

7.6.71

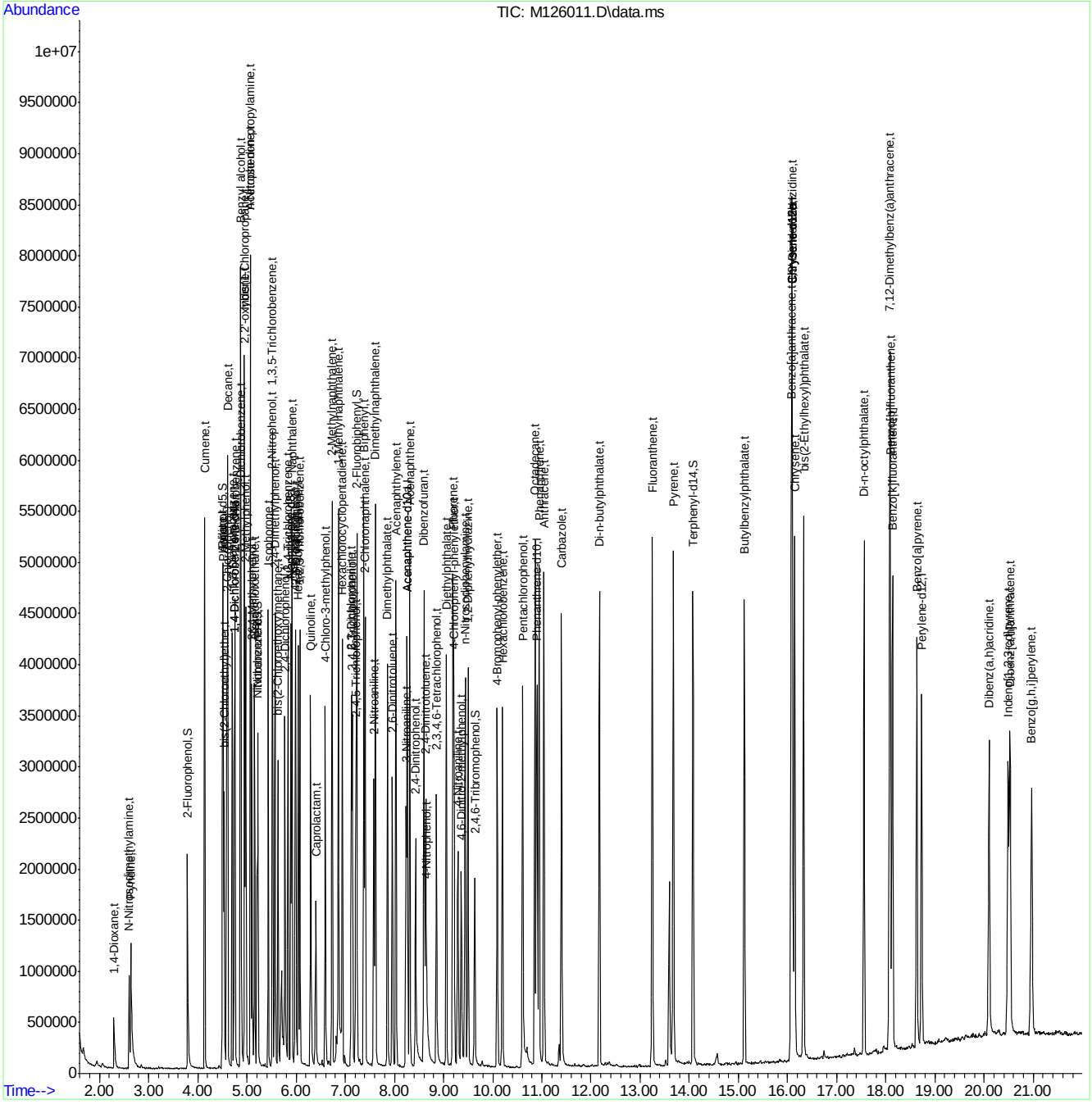
7

SGS ACCUTEST JC23654

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126011.D
Acq On : 11 Jul 2016 10:28 am
Operator : ashleyd
Sample : cc5307-50
Misc : op95217,em5342
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 11:01:23 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration



MM5307.M Mon Jul 11 11:12:20 2016 MSM

SGS ACCUTEST JC23654

Manual Integration Approval Summary

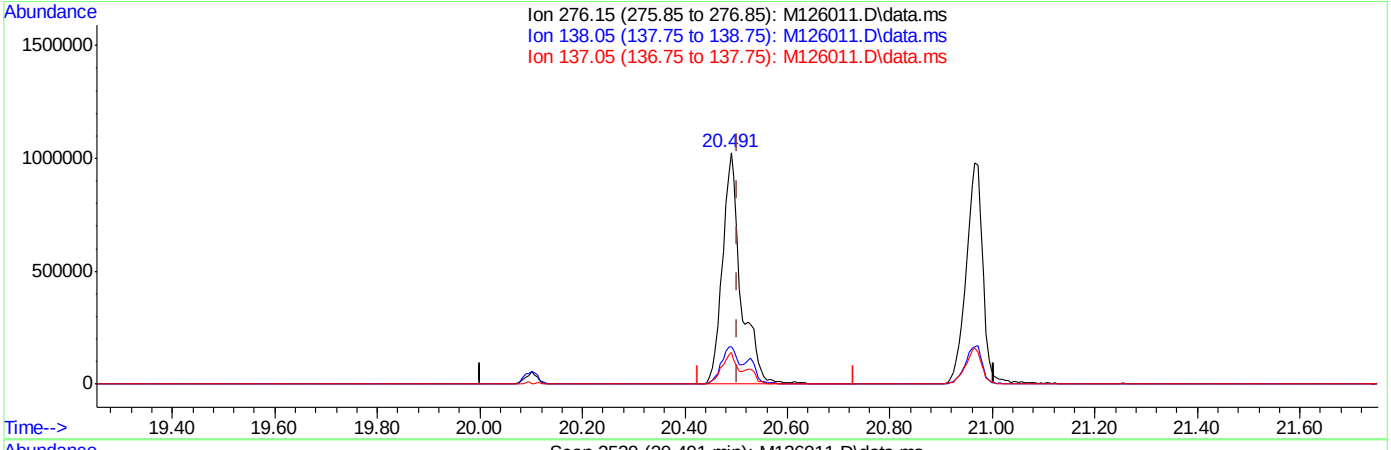
Sample Number:	EM5342-CC5307	**Method:**	SW846 8270D
Lab FileID:	M126011.D	**Analyst approved:**	07/11/16 11:14 Ashley Dye
Injection Time:	07/11/16 10:28	**Supervisor approved:**	07/12/16 11:53 Nina Pandya

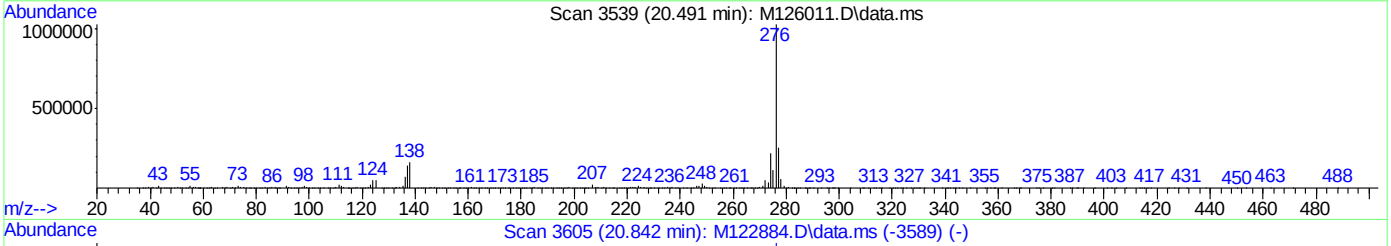
Parameter	CAS	Sig#	R.T. (min.)	Reason
Indeno(1,2,3-cd)pyrene	193-39-5		20.49	Overlapping peak

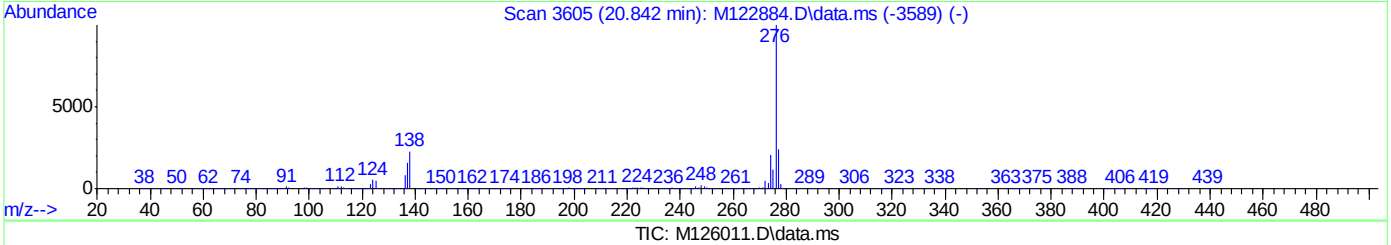
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126011.D
Acq On : 11 Jul 2016 10:28 am
Operator : ashleyd
Sample : cc5307-50
Misc : op95217,em5342
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 10:56:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration







TIC: M126011.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

20.491min (-0.012) 47.86ppm

response 2599741

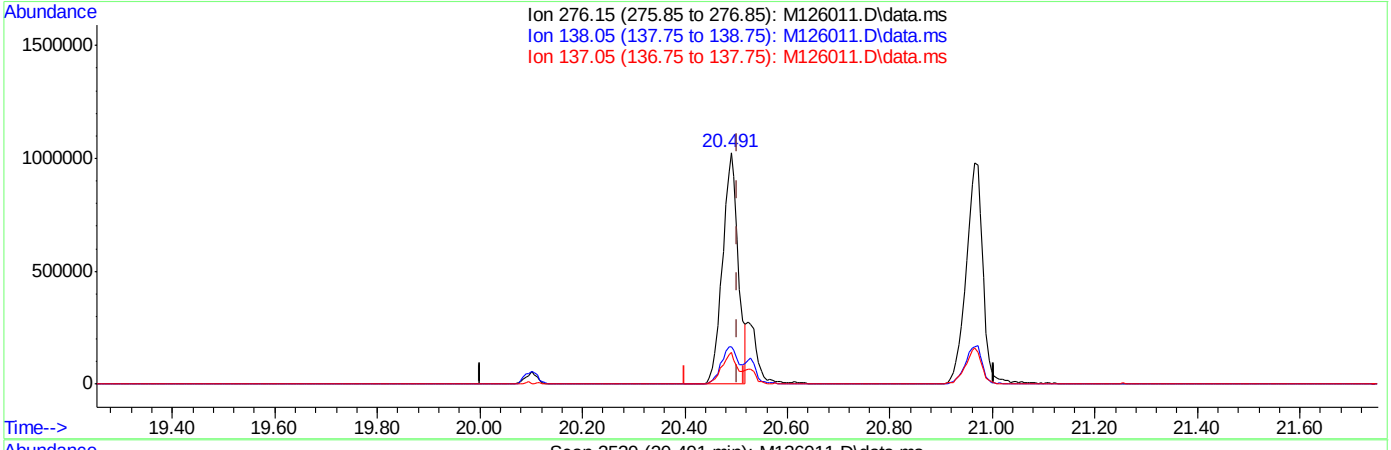
Ion	Exp%	Act%
276.15	100	100
138.05	16.80	15.87
137.05	12.60	13.39
0.00	0.00	0.00

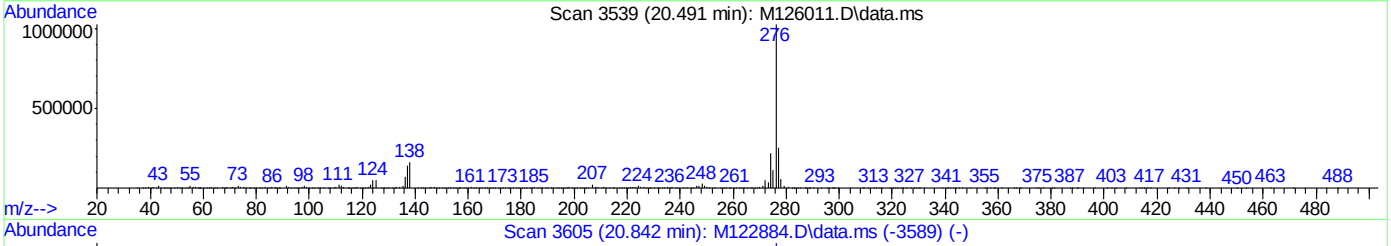
SGS ACCUTEST JC23654

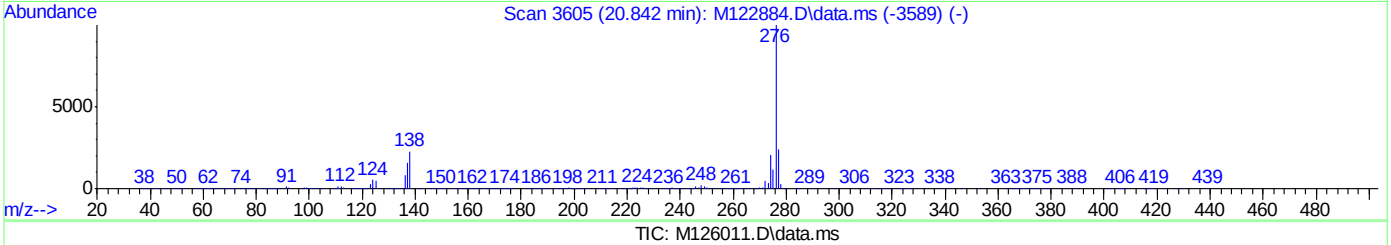
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\EM5342\
Data File : M126011.D
Acq On : 11 Jul 2016 10:28 am
Operator : ashleyd
Sample : cc5307-50
Misc : op95217,em5342
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 11 10:56:06 2016
Quant Method : C:\MSDCHEM\1\METHODS\MM5307.M
Quant Title : Semi Volatile GC/MS, rtx-5ms 30mx0.25mmx0.25um
QLast Update : Mon Jul 11 10:56:01 2016
Response via : Initial Calibration







TIC: M126011.D\data.ms

(96) Indeno[1,2,3-cd]pyrene (t)

20.491min (-0.012) 40.22ppm m

response 2185167

Ion	Exp%	Act%
276.15	100	100
138.05	16.80	15.91
137.05	12.60	13.54
0.00	0.00	0.00

SGS ACCUTEST JC23654

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2942

Print Analyst Name: Ashley Mayo

Analyst Signature: AMO

Date: 6/20/2016

Columns: RVI(G)1123 0mx0.5mmx0.5µ

Method 8270D/625

Initial Cal. Method 113M2942Sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.
	AMO 6/20/16	

Standard Data

Lot #	Description	Conc.
SV518879	DFTPP	50ng
SV161935	50 SMTSTD	40ng
16248	DCMAFSTD	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	3M62370	DFTPP				1					OK	623PM
	62371	ICV2942-.2		BNAsim	W	2					OK	SV161935-60C
	62372	-.1				3					OK	-60D
	62373	-1.0				4					OK	-84A
	62374	-.5				5					OK	-84B
	62375	-.05				6					RR	SV161935-60E Peaking action
	62376	-.02				7					OK	SV161935-60F
	62377	-.01				8					OK	-60G
	62378	-.5				9					OK	-60A
	62379	-2.5				10					OK	-60B
	62380	-.05				11					OK	-60E
	62381	ICV2942-1.0		BSim2nd	W	12					RR	OP16072012
	62382	-1.0		Acid2nd	W	13					OK	SV161935-66 12:50AM
												AMO

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2943

Print Analyst Name: LMSELK

Date: 6/21/16

Analyst Signature: [illegible]

Columns: Rxi-5sil MS 30m x .25mm x .25um

Method 8270D/1625

Initial Cal. Method M3M2942SIM

Injection Volume: 1uL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SI1502791	DFTPP	50ppm
SI1602580	SIM ISTD	40ppm
162039	DCM EFCHON	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [illegible]

Date: 6-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M022383	DFTPP			W	1					OK	9:00AM
	1022384	1CV2942-1.0		BSIM208	W	2					OK	9:20AM

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

49

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2971

Print Analyst Name: Ashley MDye

Analyst Signature: AMD

Date: 7/11/2016

Columns: Rxi5Sil ms 30m x 25mm x 25µL

Method 8270D/625

Initial Cal. Method M3M2942SIM1

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16F3559	DFTPP	50 ppm
SV16F3500	ASIM std.	1 ppm
SV16F3594	SIM internal	400 ppm
163039	DCM Ashley	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7/15/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M62883	DFTPP				1					ok	857AM.
	62884	CC2942-10		BUASIM	W	2					ok	6/1 k split NG.
	62885	op95361mb1	95361-1	B8270	W	3			✓	✓	ok	
	62886	JC23316-6		1,4D10X		4			✓	✓	ok	
	62887	-7				5			✓	✓	OK	
	62888	-8				6			✓	✓	OK	
	62889	JC23389-1		1,4D10X		7			✓	✓	OK	
	62890	-2				8			✓	✓	OK	
	62891	-3				9			✓	✓	OK	
	62892	JC23396-1		1,4D10X		10			✓	✓	OK	8:51pm
	62893	-2				11			✓		RR	outside clock time: 9:24pm
	62894	JC23420-1		1,4D10X		12			✓		↓	
	62895	OP95394A-MB1	95394A	B8270	W	13			✓	✓	ok	ran after 3M62886
	62896	JC23654-1		1,4D10X map		14			✓	✓	ok	Rerun by 8270
	62897	-2				15			✓	✓	ok	Rerun by 8270
	62898	-3				16			✓	✓	ok	Rerun by 8270
	62899	-4				17			✓	✓	ok	Rerun by 8270

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.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.3

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E3M2971

Print Analyst Name: ASMcq MDyp

Analyst Signature: AMO.

Date: 7/11/2016.

Columns: Rxi5sl ms30m x 25mm x 25µm

Method 8270D/625

Initial Cal. Method M3M2942sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 141	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7-15-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	3M62900	JC23654-5	95394A	1,4D10X+ nap	W	18			✓	✓	ok	
	62901	JC23590-1		1,4D10X		19			✓	✓	OK	nm by 8270
	62902	-3				20			✓	✓	OK	
	62903	op 95434 mb1	95434-1	B8270	W	21			✓	✓	OK	
	62904	-bs12				22			✓	✓	OK	
	62905	-ms				23			✓	✓	OK	
	62906	-msd				24			✓	✓	OK	
	62907	JC23654-4		1,4D10X+ nap		25			✓	✓	OK	RR 15 by 8270 5:34pm

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.

143

Form: OR015-07
Rev. Date: 1/19/16

7.7.3

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M2974

Print Analyst Name: Ashley Mdyp

Date: 6/20/2016

Analyst Signature: AMO

Columns: ZB5ms 30m x 5mm x 5μ

Method 8270D/625

Initial Cal. Method M4M2973 4 5ppm

Injection Volume: 1μL AMO 6/20/16

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV1582791	DFTPP	50ppm
SV1609350	Sim std. JSTD 6/20/16	400ppm
K0324	DCM-(Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 6-21-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M6179	DFTPP				1					OK	1006PU
	66180	IC2974-1		BLASIM	W	2					na	using fix windows Rerun
	66181	~~-.2~~	.1			~~3~~ 2					OK	SV1609350-60D
	66182	~~-.5~~	.2			~~4~~ 3					OK	-60C JK 6/21/16
	66183	~~-1.0~~	.5			~~5~~ 4					OK	~~-60~~ -84B
	66184	~~-.05~~	1.0			~~6~~ 5					OK	-84A
	66185	~~-.02~~	.05			~~7~~ 6					OK	-60E
	66186	~~-.01~~	.02			~~8~~ 7					OK	-60F
	66187	~~-.5~~	.01			~~9~~ 8					OK	-60G
	66188	AMO ~~-2.5~~	5			~~10~~ 9	AMO 6/20/16 ④				OK	-60A
	66189	6/20/16 ④ ~~-2.5~~				10					OK	-60B
	66190	ICV2974-1.0		BSim2nd	W	11					OK	OP1617706
	66191	1.0		Acid2nd	W	12					OK	SV1609357 4.00AM

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

167

Form: OR015-07
Rev. Date: 1/19/16

7.7.4

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M3003

Print Analyst Name Ashley Mayo

Analyst Signature: AMO

Date: 7/9/16

Columns: 2BSMS(+) 30m×25mm×25µm

Method 8270D/625

Initial Cal. Method M4M2974Sim

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16P3359	DFTPP	50ppm
SV16P3510CB	Sim std.	5ppm
SV16P3594	Sim internal	400ppm
163039	DCM Fisher	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M66740	DFTPP				1					ok	1213PM.
	66741	CC2974-.5		BMASim	W2						OK	acids & nonaqueous.
	66742	qp95328mbl	95329-1	B8270	W	3			/	J	OK	voran as "A" filena ISTD.
	66743	-bs12				4			/	J	OK	
	66744	-nb				5			/	J	OK	
	66745	-nsd				6			/	J	OK	
	66746	qp95394mbl	95394-1	AB8270	W	7			/	/	ok	
	66747	-bs12				8			/	/	ok	
	66748	JC22208-1		simpak		9			/	/	ok	
	66749	-2				10			/	/	ok	
	66750	-3				11			/	/	ok	
	66751	-4				12			/	/	ok	
	66752	-6				13			/	/	ok	
	66753	-7				14			/	/	ok	
	66754	-8				15			/	/	ok	
	66755	JC23251-1	95328-1	BSimSC2	W	16			/	J	OK	
	66756	-2				17			/	J	ok	

MTX = Matrix. Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC23654

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M3003

Print Analyst Name: Ashley M Dye

Analyst Signature: AMD

Date: 7/9/16

Columns: 2B5TMS 30m x 0.25mm x 0.25µ

Method 8270D/625

Initial Cal. Method M4M2974SIRC

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 63	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M66757	JC23251-3	95328	1,3,5,7,8,22	W	18			✓	✓	OK	
	66758	-4				19			✓	✓	OK	
	66759	-5				20			✓	✓	OK	
	66760	-6				21			✓	✓	OK	
	66761	-9				22			✓	✓	OK	
	66762	-10				23			✓	✓	OK	
	66763	-11				24			✓	✓	OK	11:47 pm
	66764	-13				25			✓		not using	12:17 am outside 12 hours

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC23654

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E4M3004

Print Analyst Name: Ashley Mdye

Analyst Signature: AMO

Date: 7/11/2016

Columns: 235ms 30m x 25mm x 25µm

Method: 8270D/625

Initial Cal. Method: M4M2974SIM

Injection Volume: 1 µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV16193558	9DFTPP	50 ppm
SV16193511	8Sim std.	1 ppm
SV16193504	Sim internal	400 ppm
163039	DCM (7 shot)	

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
	4M66765	DFTPP				1					ok	845AM
	66766	CC297410		BNASIM	W	2					OK	B,M,21T
	66767	op95332mbl	95332-1	AB8270	W	3			✓	✓	OK	
	66768	-bs12				4			✓	✓	OK	
	66769	-ms				5			✓	✓	OK	
	66770	-msd				6			✓	✓	OK	
	66771a	JC22477-2	rx	ABSIMNST 1,4DIOX		7			✓	✓	OK	retain as "A" file. QC link sample
R	66772	OP95121A-MS	95121A	AB8270	W	8			✓	✓	OK	
R	66773	JC22965-1	95188A	ABSIMNST 1,4DIOX	W	9			✓	✓	OK	
	66774	JC23269-12	95332A	ABSIMNST 1,4DIOX	W	10			✓	✓	OK	
	66775	-13				11			✓	✓	OK	
	66776	JC23248-25		BSIMNST 1,4DIOX		12	2X		✓	✓	OK	Vf = 5mL diluted due to matrix
	66777	-26				13			✓	✓	OK	
	66778	-27				14			✓	✓	OK	8270 only!
	66779	JC23283-1		ABSIMNST 1,4DIOX		15			✓	All ↓	OK	rx - no bottles left
	66780	-2				16			✓	✓	OK	
	66781	-3				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 E4M3004

Print Analyst Name: Hank Chao

Date: 7/11/16

Analyst Signature: HC

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	seep agl 67	

Columns: ZB5ms ⊕ 30mX.25mmX.25µm

Method 8270D/625

Initial Cal. Method M4M 2974sim

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: [signature] Date: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M 66782	JC23248-16	95332A	BSMNJ+ 1,4DOX	W	18			✓	✓	OK	
	66783	JC22919-1	95213A	ABSMNJ+ 1,4DOX		19			✓	✓	OK	ran after 4M66773
	66784	-2				20			✓	✓	OK	↓
	66785	JC23023-1		BSMNJ+ 1,4DOX		21			✓	✓	OK	
	66786	-2				22			✓	✓	OK	8:26PM
	66787	JC23033-1	95213A	BSMNJ 1,4DOX		23					not using	RL 1.5 due to matrix ran after 4M66784
	66788	JC23033-1	95213A	BSMNJ+ 1,4dox		24	5		✓	✓	OK	Run before 4M66776
	66789	OP95394A-BS12	95394A	AB8270	W	25			✓	✓	OK	ran after 4M66788

AWQ

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 JC23654

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E4M3006

Print Analyst Name: Hank Chen

Analyst Signature: HC

Date: 7/12/16

Columns: ZB5ms 30mx.25mmx.25um

Method 8270D/625

Initial Cal. Method M4M2974sim

Injection Volume: 1.0µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVS8274A	DFTPP	50ppm
SV6935KAB	sim std.	1ppm
SV6935KAS	sim internal	400ppm
163039	DCM (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7/12/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M66794	DFTPP				1					OK	1059AM.
	66795	CC2974-10		BLASIM	W	2					OK	
	66796	JC23023-2	95213A	ABSIMNS+ 1:40DX	W	3			✓	✓	OK	doublespiked with IS
	66797	OP95148mb1	95148-1	AB8270	W	4			✓	✓	OK	
	66798	JC23000-1		BSIMNS+ 1:40DX		5			✓	✓	OK	
	66799	-2				6			✓	✓	OK	
	66800	-3				7			✓	✓	OK	
	66801	-4				8			✓	✓	OK	
	66802	OP95394A-MB1	95394A	AB8270	W	9			✓	✓	OK	
	66803	-MS				10			✓	✓	OK	
	66804	-MSD				11			✓	✓	OK	
	66805	JC23552-1		ABSIMNJ +1.40DX		12			✓	✓	OK	
	66806	-2				13			✓	✓	OK	
	66807	-3				14			✓	✓	OK	
	66808	-4				15			✓	✓	OK	1056PM.
	66809	JC23251-13	95328A	BSIMSL2		16					not ran	
	66810	-15				17					↓	

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 E4M3006

Print Analyst Name: Hank Chao

Date: 7/12/16

Analyst Signature: HC

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 73	

Columns: ZB5ms(+) 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method M4M2974sim

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: [signature] Date: 7-15-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	4M66811	JC23251-16	95328A	BSIMSL2	W	18					not ran.	
	66812	op95217mbl	952171	AB8270	W	19			J	J	OK	ran after 4M66803
	66813	-bs12				20			J	J	OK	
	66814	JC23078-1		BSIMNS+ 1,4DIOX		21			J	J	OK	
	66815	op95217-ms				22			J	J	OK	
	66816	-msd				23			J	J	OK	
	66817	JC23105-1		ABSIMNS+ 1,4DIOX		24			J	J	OK	
	66818	-2				25			J	J	OK	
	66819	-3				26			J	J	OK	827PM.
	66820	op95318mbl	953184	AB8270	W	27			J	J	OK	
	66821	JC23273		ABSIMNS +1,4DIOX.		28			J	J	OK	Reanal. not recorded
	66822	-3				28					not ran	ran after 4M66822
												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.

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Form: OR015-07
Rev. Date: 1/19/16

SGS ACCUTEST JC23654

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E5P1496

Print Analyst Name: Kristi Schellenberg

Analyst Signature: [signature]

Date: 7-1-16

Columns: Rxi-5Silms 30mx.25mm.25u

Method: 8270d/1625

Initial Cal. Method: 15P1455

Injection Volume: 1ul

Standard Data

Lot #	Description	Conc.
S16-535-92A	BNA	100ppm
S16-535-92B	↓	50ppm
S16-535-93G	↓	50ppm
S16-535-92D	↓	25ppm
S16-535-92E	↓	10ppm
S16-535-92G	↓	5ppm

Standard Data

Lot #	Description	Conc.
S15-602191	DF/MP	50ppm
S16-535-92M	BNA	2ppm
S16-535-92I	↓	1ppm
CM5732	Internal Std	4000ppm
163534	Dam (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: 7-01-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	SP25325	DF/MP			W	1					ok	
	25326	IC1456-100		BNA	W	2					ok	
	25327	IC1456-2			W	3					ok	
	25328	IC1456-80			W	4					ok	
	25329	IC1456-1			W	5					ok	
	25330	IC1456-50			W	6					ok	
	25331A	IC1456-5			W	7					ok	power outage run as "A"
	25332	IC1456-25			W	8					ok	
	25333	IC1456-10			W	9					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: ESP1497

Print Analyst Name: Ashley N.

Analyst Signature: [signature]

Date: 7-01-16

Columns: Rtx-5Sil MS 30m x 25mm x 25µm

Method: 8270D/625

Initial Cal. Method: MSP1496

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
VS163791	DFTPP	50ppm
IMS932	Internal Std	4000ppm
163534	Con(SSM)	—

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: 7-3-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	SP29334	DFTPP			W	1					No	4424 reinject
	29335	DFTPP				1					ok	4:47pm
	29336	ICV1497-100		TCL42		2					ok	
	29337	-80				3					ok	
	29338	ICV 1497-50				4					ok	
	29339	ICV1497-25				5					ok	
	29340	-10				6					ok	
	29341	-5				7					ok	
	29342	-2				8					ok	
	29343	-1				9					ok	
	29344	ICV1496-50		Acid Spike		10					ok	SV161935-59 Bad
	29345	-50		Aniline Spike		11					ok	-86
	29346	-50		ABN Sur		12					ok	OP161712136
	29347	-50		BN1		13					ok	SV161935-75
	29348	-50		BN2		14					ok	-74
	29349	ICV 1497-50		Benzidine 3rd		15					ok	SV151827-385
	29350	-50		HQ		16					ok	-98P

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.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.9

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E5P1500

Print Analyst Name: Ashley Hoyle

Analyst Signature: AMO

Date: 7/5/2016

Columns: Rtx5Sil MS 30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method H5PH96

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV518279	DFTPP	50ppm
CH5732	internal std	4000ppm
163039	DCB (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
	5P29396	DFTPP				1					not using	~~no~~ AMO 7/5/16 via empty Renn
	29397	DFTPP				1					not using	syringe stuck – change
	29398	DFTPP				1					OK	909AM
	29399	ICV H5PH96-50 AMO 7/5/16		BN1	W	2					OK	SV16193595
	29400	ICV H5PH96-50		BN2	W	3					OK	SV16193582 951AM

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.

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Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: E5P1510

Print Analyst Name: [illegible]

Analyst Signature: [illegible]

Date: 7/12/16

Columns: [illegible]

Method: [illegible]

Initial Cal. Method: MSP1416

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV161935-39	DFTPP	50ppm
135	BNA	50ppm
325 ~~327~~	TCL/12	50ppm
CLS232	internal Std.	1000ppm
162039	DCM (Fisher)	-17

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: 7-14-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	5P1510	DFTPP				1					Not Sing	1279 (ug) rerun
	21597	DFTPP				1					not Sing	
	29598	DFTPP				1					OK	405PM
	29599	CC149625		BNA	W	2					OK	PCP(b) #13, 20, 31, 41, 61, 32P
	29600	CC1497-~~25~~ 50		TCL12		3					OK	H2P 50 ppm
	29601	BNA ref 2ppm		BNA		4					OK	✓SV161935565D
	29602	JC23326-1	953451	1,4D10X	N	5			J	J	OK	
	29603	OP95434-mb1	95434	B8270	W	6			J	J	OK	
R	29604	JC23654-4		1,4D10X+naph		7	5		J	J	OK	
	29605	OP95420-MB1	95420	AB8270 (4) ~~AB8270~~ 7/12/16	S	8		+	J	J	OK	
	29606	JC23666-7		PAH		9			J	J	OK	
	29607	-10				10			J	J	OK	
	29608	-11				11			J	J	OK	~~RR~~ CLO 7/15/16 AWO
	29609	-12				12			J	J	OK	
	29610	-13				13			J	J	OK	
	29611	-14				14			J	J	OK	
	29612	-15				15			J	J	OK	

MTX = Matrix . Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

All strikeouts must be initialed, dated, and reason applied if not transcription error

Sample volume/weight used and final volumes refer to extraction log.

Form: OR015-07
Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID E5P1516

Print Analyst Name: Ashley Mayk

Analyst Signature: AMO

Date: 7/12/16

Columns: 7B5ms 30m x 25mm x 25

Method 8270D/625

Initial Cal. Method M5P1496

Injection Volume: µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 119	

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: 7-14-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	5P2963	JC23604-3	95414	BTEX20+		16			✓		not using	RR 1.8 w/ IS
	2964	OP95332-MS	95332	B8270		17			✓	✓	OK	
	2965	-MSD				18			✓	✓	OK	
	2966	JC23248-16		BNJTEX20+		19		+	✓	✓	OK	1139PM

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.

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Form: OR015-07

Rev. Date: 1/19/16

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EM5307

Print Analyst Name: Ashley Mdyk

Date: 6/16/2016

Analyst Signature: AMO

Columns: RTX 5sil ms 30m x 0.25mm x 0.25 µm

Method 8270D/625

Initial Cal. Method M M5307

Injection Volume: 1 µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 1518279	DFTPP	50ng/µL
1162418	DCM (Fisher)	—
Lot 5732	IS/SU	40ng/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: AM

Date: 6-20-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	M125257	DFTPP				1					not using	
	125258	IC5307-2		BNA	W	2					↓	no60 LPEMT
	125259	DFTPP				1					not using	
	125260	IC5307-2		BNA	W	2					↓	reinstall. NO60
	125261	DFTPP				1					ok	1228PM
	125262	IC5307-2		BNA	W	2					ok	
	125263	-1				3					ok	
	125264	-100				4					ok	
	125265	-80				5					ok	
	125266	IC5307-50				6					ok	
	125267	IC530725				7					ok	
	125268	-10				8					ok	
	125269	-5				9					ok	418PM

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

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7.7.12

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

@ mJ 6/16/16

Batch ID EM5307/8

Print Analyst Name: Julius M. Johnson

Analyst Signature: JMJ

Date: 6/16/16

Columns: RTX5Silms30m x .25mm x .25µm

Method 8270D/625

Initial Cal. Method MM5307

Injection Volume: 1µl

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV151827191	DFTPP	50ppm
CLU5732	Internal Std.	400 ppm
162418	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: 6/20/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	M125270	DFTPP				1					OK	5:01
	125271	ic5308-100		TCL42		2					OK	SV161935-3A
	125272	ic5308-80				3					OK	-3B
	125273	ic5308-50				4					OK	-3C
	125274	ic5308-25				5					OK	-3D
	125275	ic5308-10				6					OK	-3E
	125276	ic5308-5				7					OK	-3G
	125277	ic5308-2				8					OK	-3H
	125278	ic5308-1				9					OK	-3I
	125279	icv5308-50		Acid		10					RR	SV161935-70 PCP-1
	125280	icv5308-50 AMC 6/20/16		Aniline		11					OK	-15
	125281	icv5308-50		BN1		12					OK	-75
	125282	icv5308-50		BN2		13					OK	-10
	125283	icv5308-50 AMC 6/20/16		ABSLIN		14					OK	16171292
	125284	icv5308-50		320 3rd		15					OK	SV161935-38F
	125285	icv5308-50		HQ		16					OK	SV151827-98A

AMO 1218AMC

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 JC23654

7.7.13

7

SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID: EM5310

Print Analyst Name: Josh Schlenker

Analyst Signature:

Date: 6-5-16

Columns: DB5ms/UI 30m x .25mm x .25u

Method: EPA 8270D / 625

Initial Cal. Method: M5307

Injection Volume: 1 ul

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SU5152951	DFTPP	50ng
~~SU5155-10~~	Acid 2nd Source	50ng
SU6-1555-10		
CM5732	Internal Std.	400ng
162418	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: 6/20/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	M125313	DFTPP			W	1					ok	7:53am
	125314	ICV5302-50	Acid 2nd Source		W	2					OK	809AM

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.

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Form: OR015-07
Rev. Date: 1/19/16

7.7.14

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EM5342

Print Analyst Name: Ashley Mdye

Analyst Signature: AMO

Date: 7/11/16

Columns: RtX5SIL MS 30m x 0.25mm x 0.25µ

Method 8270D/625

Initial Cal. Method MM5307

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SVIS5799	DFTPP	50 ppm
SVG9351	CBLA	50 ppm
CM5732	Internal Std.	4000 ppm
V63054	DCM (7/5/16)	"

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7-15-16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution.	L+	IS	SU	Status (Data)	Comments
	M126009	DFTPP				1					not using	Restart - instrument shutdown
	126010	DFTPP				1					OK	1004AM -
	126011	CC530750		BLA	W	2					OK	heavy pah's
	126012	qp95399-mb1	95399-1	AB8270	W	3			✓	✓	OK	
	126013	JC23224-2		1,4DIOX		4			✓	✓	OK	
	126014	-3				5			✓	✓	OK	
	126015	-7				6			✓	✓	OK	
	126016	qp95399-mb1	95399-1	AB8270	W	7			✓	✓	OK	
	126017	JC22862-4		1,4DIOX	W	8	5x		✓	✓	OK	
	126018	-7				9	2x		✓	✓	OK	
	126019	-8				10	4x		✓	✓	OK	
	126020	-9				11	4x		✓	✓	OK	
	126021	JC22907-3		1,4DIOX		12	100x		/	-	OK	
	126022	-4				13	20x		✓	✓	OK	
	126023	-4				14	100x		/	/	~~NOT OK~~ ~~using~~	~~NOT Needed~~ BP 7/12/16
	126024	qp95394-mb1	95394-1	AB8270	W	15			/	/	OK	
	126025	JC23654-1		1,4DIOX		16			/	/	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.

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Form: QR015-07
Rev. Date: 1/19/16

7.7.15

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SEMI-VOLATILE by GCMS ANALYSIS LOG

SGS ACCUTEST

Batch ID EM5342

Print Analyst Name: Ashley Mdye

Analyst Signature: AMO

Date: 7/11/16

Columns: Rtx5Si/Rtx30m x 0.25mm x 0.25µ

Method 8270D/625

Initial Cal. Method MM5307

Injection Volume: 1µL

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see page 5	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 7/15/16

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	L+	IS	SU	Status (Data)	Comments
	M126026	JC23654-2	953944-1	1,4DIOX	W	17			/	/	OK	
	126027	-3				18			/	/	OK	
R	126028	JC23269-3	952631	ABTCL104	S	19	10		/	/	OK	
	126029	JC23590-1	953944-1	1,4DIOX	W	20			/	/	OK	7:08pm
												SU

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

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7.7.15

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ABN Aqueous Extraction Logbook

LOGBOOK ID:

Date Started: 7/8/16 Time Started: 6-17 ~~16~~ 16:00
Date Finished: 7/8/16 Time Finished: 22:30

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM_____
Continuous Liquid Liquid: SW846 3520C/CLP/other_____

BATCH # MS 95394 RACK# A-7

Extracted by: AOL, RF,
Concentrated by: GM
Vialed by: GM
Relinquished by:
Accepted by:
Supervisor Review: DH 7/10/16

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	73.9,73.8	-0.8,-0.1	73.74	NA
Waterbath Chiller (GPM)	F2	4	—	—	2
NEVAP (32-38°C; LPM)					

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16 1770 30	50	1

WITNESS SIGN: RG SPIKE SIGN: AOL

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid		50	Acid: 1
Acid (for SIM)	16 1935 98		A(SIM): 0.1
Base #1	16 1935 103	50	1
Base #2	16 1935 96	50	1
Anilines	16 1935 85	50	1
BSIM	16 1770 6	1	1

WITNESS SIGN: RG SPIKE SIGN: AOL

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	163534	Fis	640

REAGENT	LOT #	BRAND
NaOH	157991	Fis
H2SO4	4603899	Fisher
Sodium Sulfate	157194	Fis
Glass Wool	05026	Ech
Filter Paper		
pH strips		

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:

SPECIAL PROCESSING INSTRUCTIONS
Rx Reason: low BS.
Spiking: JC 22708-7, JC 23654-1 to -5 not in LIMS, not updated AOL 11:34pm 7/8/16
Weights/Volumes:
Required MS/MSD:
Final Volume:
Other: Please update "A" Batch

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	pH Adjust(mL) < H2SO4	pH Adjust(mL) >11 NaOH	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
	MB1	ABN		DI H2O	1000	1	5	clear	1		
	BS1			DI H2O	1000	1	5	yellow	1		
	JC 23552-1 MS		1	peach	460	1	5	yellow	1		
	⊥ MSD		1	peach	460	1	5	yellow	1		
	JC 23595-2 BS	12 SIM		DI H2O	1000	1	5	clear	1		
	⊥ MS		2	clear	490	1	5	lt yellow	1		
	MSD		2	clear	490	1	5	lt yellow	1		
1	JC 22708-1 ox	ABN	1	clear	900	1	5	lt yellow	1		
2	-2		2	peach	940	1	5	clear	1		
3	-3		2	yellow	930	1	5	yellow	1		*
4	-4		1	yellow	900	1	5	clear	1		
5	-6		1	orange	920	1	5	yellow	1		
6	-7		2	orange	900	1	5	clear	1		
7	-8		1	yellow	910	1	5	yellow	1		
8	JC 23552-1		2	clear	910	1	5	clear	1		
9	-2		2	orange	980	1	5	yellow	1		930
10	-3		1	orange	910	1	5	clear	1		
11	-4		1	clear	930	1	5	clear	1		
12	JC 23583-13		2	clear	990	1	5	clear	1		
13	JC 23590-1		2	clear	990	1	5	clear	1		
14	-3		1	clear	990	1	5	clear	1		
15	JC 23595-2		1	lt yellow	1000	1	5	yellow	1		
16	JC 23654-1		2	yellow	890	1	5	clear	1		
17	-2		2	yellow	910	1	5	clear	1		
18	-3		2	brown	900	1	5	clear	1		
19	-4		2	brown	900	1	5	clear	1		
20	-5		1	orange	910	1	5	yellow	1		

1d TAT

Comments: * only 230 ml in bottle added 700 ml DI H2O
OK to split MS/MSD & SIM MS/MSD.

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16

LOGBOOK ID: 6-1745

ABN Aqueous Extraction Logbook

Date Started: 7-11-16 Time Started: 0800
Date Finished: 7-11-16 Time Finished: 1400

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other ✓ 3510C SIM ✓
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # MS 95434	RACK# A-4
Extracted by:	NL ENC
Concentrated by:	NL ENC MPLP
Vialed by:	MCP
Relinquished by:	
Accepted by:	
Supervisor Review:	7/11/16

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 H2O	1000	1	4	clear	1		
BS1	2.5 IM		DI H2O	1000	1	4	lt yellow	1		
JC23654-4 MS		5	tan	910	1	4	lt yellow	1		
MSD		6	tan	920	1	4	lt yellow	1		
BS										
MS										
MSD										
1 JC23654-4	ABN	1	tan	910	1	4	CLEAR	1		
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

Comments:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking: simonly

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other: Please update batch.

required

IdexXX

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	37	79.1, 77.5	-0.8, -0.1	73, 75	N/A
Waterbath Chiller (GPM)	F2	-2	—	—	2
NEVAP (32-35°C; LPM)	2	36.1	0.1	36.2	.11

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	16177030	50	1

WITNESS SIGN: ENC SPIKE SIGN: NL

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	16193580	50	Acid: 1
Acid (for SIM)			A(SIM): 0.5
Base #1	16193607	50	1
Base #2	16193586	50	1
Anilines	16193576	50	1
BSIM	16170012	1	1

WITNESS SIGN: ENC SPIKE SIGN: NL

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	107534	Fisher	6.66

REAGENT	LOT #	BRAND
NaOH	153491	Fisher
H2SO4	4603599	R.C.A.
Sodium Sulfate	152477	Fisher
Glass Wool	02912-2	lab
Filter Paper		
pH strips		

SGS ACCUTEST INC.
Form: OP022A-08
Rev Date: 1/13/16