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Automated Report

Technical Report for

Anderson Mulholland and Assoc.

BMSMC, Building 5 Area, Puerto Rico

SM04.00.06

SGS Accutest Job Number: MC45897

Sampling Dates: 05/11/16 - 05/12/16

Report to:

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Total number of pages in report: **1065**

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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.

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Sample Summary

Anderson Mulholland and Assoc.

Job No: MC45897

BMSMC, Building 5 Area, Puerto Rico
Project No: SM04.00.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC45897-1	05/11/16	15:40	TT	05/13/16	AQ	Ground Water	RA20-GWD
MC45897-1A	05/11/16	15:40	TT	05/13/16	AQ	Ground Water	RA20-GWD
MC45897-2	05/11/16	15:47	NR	05/13/16	AQ	Ground Water	S-40D
MC45897-2A	05/11/16	15:47	NR	05/13/16	AQ	Ground Water	S-40D
MC45897-3	05/12/16	12:00	TT	05/13/16	AQ	Ground Water	S39D
MC45897-3A	05/12/16	12:00	TT	05/13/16	AQ	Ground Water	S39D
MC45897-3AD	05/12/16	12:00	TT	05/13/16	AQ	Water Dup/MSD	S39D
MC45897-3AS	05/12/16	12:00	TT	05/13/16	AQ	Water Matrix Spike	S39D
MC45897-3D	05/12/16	12:00	TT	05/13/16	AQ	Water Dup/MSD	S39D
MC45897-3S	05/12/16	12:00	TT	05/13/16	AQ	Water Matrix Spike	S39D
MC45897-4	05/12/16	12:20	NR	05/13/16	AQ	Ground Water	MW-20S
MC45897-4A	05/12/16	12:20	NR	05/13/16	AQ	Ground Water	MW-20S
MC45897-5	05/12/16	13:29	NR	05/13/16	AQ	Ground Water	MW-20D

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Sample Summary
(continued)

Anderson Mulholland and Assoc.

Job No: MC45897

BMSMC, Building 5 Area, Puerto Rico
Project No: SM04.00.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC45897-5A	05/12/16	13:29	NR	05/13/16	AQ	Ground Water	MW-20D
MC45897-6	05/12/16	14:50	TT	05/13/16	AQ	Ground Water	S40S
MC45897-6A	05/12/16	14:50	TT	05/13/16	AQ	Ground Water	S40S

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson Mulholland and Assoc. **Job No:** MC45897

Site: BMSMC, Building 5 Area, Puerto Rico **Report Date** 5/23/2016 3:37:34 PM

6 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 05/11/2016 and 05/12/2016 and were received at SGS Accutest New England on 05/13/2016 properly preserved, at 0.8 Deg. C and intact. These Samples received a job number of MC45897. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method MADEP VPH REV 1.1

Matrix: AQ **Batch ID:** GBD3635

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45897-3MS, MC45897-3MSD were used as the QC samples indicated.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP47498

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45897-3AMS, MC45897-3AMSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** OP47576

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC45897).

Summary of Hits

Job Number: MC45897
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 05/11/16 thru 05/12/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC45897-1	**RA20-GWD**					
No hits reported in this sample.						
MC45897-1A	**RA20-GWD**					
No hits reported in this sample.						
MC45897-2	**S-40D**					
No hits reported in this sample.						
MC45897-2A	**S-40D**					
No hits reported in this sample.						
MC45897-3	**S39D**					
No hits reported in this sample.						
MC45897-3A	**S39D**					
No hits reported in this sample.						
MC45897-4	**MW-20S**					
No hits reported in this sample.						
MC45897-4A	**MW-20S**					
No hits reported in this sample.						
MC45897-5	**MW-20D**					
C5- C8 Aliphatics (Unadj.)		66.5	50	40	ug/l	MADEP VPH REV 1.1
MC45897-5A	**MW-20D**					
No hits reported in this sample.						
MC45897-6	**S40S**					
No hits reported in this sample.						

Summary of Hits

Job Number: MC45897
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 05/11/16 thru 05/12/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC45897-6A	**S40S**					

No hits reported in this sample.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	RA20-GWD		
Lab Sample ID:	MC45897-1	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BD73555.D	1	05/13/16	DF	n/a	n/a	GBD3635
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	40	ug/l	
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	87%		70-130%
	2,3,4-Trifluorotoluene	103%		70-130%

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:	RA20-GWD		
Lab Sample ID:	MC45897-1A	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14175.D	1	05/19/16	TA	05/16/16	OP47498	GDE793
Run #2							

	Initial Volume	Final Volume
Run #1	875 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	80	ug/l	
	C9-C18 Aliphatics	ND	110	80	ug/l	
	C19-C36 Aliphatics	ND	110	80	ug/l	
	C11-C22 Aromatics	ND	110	80	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		40-140%
321-60-8	2-Fluorobiphenyl	88%		40-140%
3386-33-2	1-Chlorooctadecane	59%		40-140%
580-13-2	2-Bromonaphthalene	91%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	S-40D		
Lab Sample ID:	MC45897-2	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BD73556.D	1	05/13/16	DF	n/a	n/a	GBD3635
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	40	ug/l	
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	85%		70-130%
	2,3,4-Trifluorotoluene	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	S-40D		
Lab Sample ID:	MC45897-2A	**Date Sampled:**	05/11/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14176.D	1	05/19/16	TA	05/16/16	OP47498	GDE793
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	77	ug/l	
	C9-C18 Aliphatics	ND	110	77	ug/l	
	C19-C36 Aliphatics	ND	110	77	ug/l	
	C11-C22 Aromatics	ND	110	77	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		40-140%
321-60-8	2-Fluorobiphenyl	88%		40-140%
3386-33-2	1-Chlorooctadecane	62%		40-140%
580-13-2	2-Bromonaphthalene	90%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	S39D		
Lab Sample ID:	MC45897-3	**Date Sampled:**	05/12/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BD73577B.D	1	05/16/16	DF	n/a	n/a	GBD3635
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	40	ug/l	
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	85%		70-130%
	2,3,4-Trifluorotoluene	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	S39D		
Lab Sample ID:	MC45897-3A	**Date Sampled:**	05/12/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14177.D	1	05/19/16	TA	05/16/16	OP47498	GDE793
Run #2							

	Initial Volume	Final Volume
Run #1	870 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	80	ug/l	
	C9-C18 Aliphatics	ND	110	80	ug/l	
	C19-C36 Aliphatics	ND	110	80	ug/l	
	C11-C22 Aromatics	ND	110	80	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		40-140%
321-60-8	2-Fluorobiphenyl	88%		40-140%
3386-33-2	1-Chlorooctadecane	66%		40-140%
580-13-2	2-Bromonaphthalene	89%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	MW-20S		
Lab Sample ID:	MC45897-4	**Date Sampled:**	05/12/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BD73557.D	1	05/13/16	DF	n/a	n/a	GBD3635
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	40	ug/l	
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	86%		70-130%
	2,3,4-Trifluorotoluene	106%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	MW-20S		
Lab Sample ID:	MC45897-4A	**Date Sampled:**	05/12/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14216.D	1	05/23/16	TA	05/20/16	OP47576	GDE795
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	100	71	ug/l	
	C9-C18 Aliphatics	ND	100	71	ug/l	
	C19-C36 Aliphatics	ND	100	71	ug/l	
	C11-C22 Aromatics	ND	100	71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		40-140%
321-60-8	2-Fluorobiphenyl	76%		40-140%
3386-33-2	1-Chlorooctadecane	70%		40-140%
580-13-2	2-Bromonaphthalene	79%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	MW-20D		
Lab Sample ID:	MC45897-5	**Date Sampled:**	05/12/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BD73558.D	1	05/13/16	DF	n/a	n/a	GBD3635
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	66.5	50	40	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	40	ug/l	
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	87%		70-130%
	2,3,4-Trifluorotoluene	108%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	MW-20D		
Lab Sample ID:	MC45897-5A	**Date Sampled:**	05/12/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14179.D	1	05/19/16	TA	05/16/16	OP47498	GDE793
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	80	ug/l	
	C9-C18 Aliphatics	ND	110	80	ug/l	
	C19-C36 Aliphatics	ND	110	80	ug/l	
	C11-C22 Aromatics	ND	110	80	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		40-140%
321-60-8	2-Fluorobiphenyl	91%		40-140%
3386-33-2	1-Chlorooctadecane	61%		40-140%
580-13-2	2-Bromonaphthalene	84%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	S40S		
Lab Sample ID:	MC45897-6	**Date Sampled:**	05/12/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BD73559.D	1	05/13/16	DF	n/a	n/a	GBD3635
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	40	ug/l	
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	87%		70-130%
	2,3,4-Trifluorotoluene	108%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	S40S		
Lab Sample ID:	MC45897-6A	**Date Sampled:**	05/12/16
Matrix:	AQ - Ground Water	**Date Received:**	05/13/16
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE14180.D	1	05/19/16	TA	05/16/16	OP47498	GDE793
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	80	ug/l	
	C9-C18 Aliphatics	ND	110	80	ug/l	
	C19-C36 Aliphatics	ND	110	80	ug/l	
	C11-C22 Aromatics	ND	110	80	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		40-140%
321-60-8	2-Fluorobiphenyl	85%		40-140%
3386-33-2	1-Chlorooctadecane	61%		40-140%
580-13-2	2-Bromonaphthalene	87%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
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

SGS ACCUTEST - NE

CHAIN OF CUSTODY

SGS Accutest ~~Dayton~~ New England
~~9235 Route 130, Dayton, NJ 08810~~ 50 D'Angelo
TEL. 732-329-0200 FAX: 732-329-3499/3480 Marlborough MA
www.accutest.com

80996056954 3

PAGE 1 OF 1

Bottle Order Control # MC45897

SGS Accutest Quote #

SGS Accutest Job # Get from NJ

Client / Reporting Information	Project Information	Requested Analysis (see TEST CODE sheet)	Matrix Codes
Company Name: Anderson Mulholland Assoc. Inc.	Project Name: BMS Release Assessment		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
Street Address: 2700 Westchester	Street	Billing Information (if different from Report to)	
City: Purchase State: NY Zip	City: Humacao State: PR	Company Name	
Project Contact: Terry Taylor E-mail	Project #	Street Address	
Phone: 914-251-0400 Fax #	Client Purchase Order #	City State Zip	
Sampler(s) Name(s): N. Rivera, T. Taylor, D. Lindstrand Phone #	Project Manager	Attention:	

SGS 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	VMAVPH	BMAEPHR	LAB USE ONLY
-1	RA 20-GWD		05/11/16	1540	TT	GW	5	5								X	X	
-2	S-40D		05/11/16	1547	NR	GW	5	5								X	X	
	S 39D		05/12/16	1200	TT	GW	5	5								X	X	
-3	S 39D-MS		05/12/16	1200	TT	GW	5	5								X	X	
	S 39D-MSD		05/12/16	1200	TT	GW	5	5								X	X	352
-4	MW-20S		05/12/16	1220	NR	GW	5	5								X	X	17C
-5	MW-20D		05/12/16	1329	NR	GW	5	5								X	X	
-6	5405		05/12/16	1450	TT	GW	5	5								X	X	

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

- [x] Std. 10 Business Days For soil samples
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [x] 1 Day RUSH For aqueous samples
- [ ] other

RUSH!

Emergency & Rush T/A data available VIA Lablink

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
- [ ] *NJ Data of Known Quality Protocol Reporting*

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

Comments / Special Instructions

INITIAL ASESSMENT
LABEL VERIFICATION

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery. 9:30

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	05/12/16 1500	1 Fed Ex	2 Fed Ex	5/13/16	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# 364/378	Intact / Not intact	Preserved where applicable / On Ice: ✓ Cooler Temp. 0.7C-0.8C

MC45897: Chain of Custody
Page 1 of 4

Date: 4/11/2016 12:19:09 PM
CSR: matthews
Control #: MS-4/11/2016-2943

Delivery and Pick Up Request

THIS FORM MUST BE RETURNED WITH COOLER MC45897

Client: Anderson, Mulholland & Associates

Requested By: Terry Taylor **Project:** BMS: Building 5 Area

Delivery Mode: Accutest to Ship **Shipping Mode:** FED-X 2nd Day

Date and Time to: Ship **Date:** 4/14/2016 **Time:** any

Earliest Date: **Earliest Time:**

Deliver bottle order to: AMAI c/o Squibb Manufacturing, Inc.

Address: State Road, No. 3 KM 77.5

City: Humacao **State:** PR **Zipcode:** 00791

Delv Contact: Dave Linstrand **Phone:** 787-656-4924

Deliverable Package: NJ Full **TAT:** 1 & 14 (in Days)

Include with the order: ☑ Extra Labels ☑ COC's

Special Instructions:
for receipt by 4/18/16.
Include international FedEx return labels including PPQ form 550.
Please send 10 additional FedEx shipping labels.

1. Prepared / Relinquished By:	1. Date / Time	1. Received By
2. Relinquished By:	2. Date / Time	2. Received By

# of Samples	Matrix	Analyses Requested	Special Kits Requested
12	SO	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	Low Level Encore
12	SO	BMAEPH [BMAEPHR FOR SHIPMENT DIRECT TO NE - SEND IN SEPARATE COOLER],	
12	SO	D8015LMA, SVOC [AB8270TCL20; MNAP; SIM 14DIOX; SIM NAP],	
14	AQ	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	
14	AQ	BMAEPH [BMAEPHR FOR SHIPMENT DIRECT TO NE - SEND IN SEPARATE COOLER],	
14	AQ	D8015LMA, SVOC [AB8270TCL20; MNAP; SIM 14DIOX; SIM NAP],	
5	FB	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	
5	FB	BMAEPH [BMAEPHR FOR SHIPMENT DIRECT TO NE - SEND IN SEPARATE COOLER],	
5	FB	D8015LMA, SVOC [AB8270TCL20; MNAP; SIM 14DIOX; SIM NAP], P8081PESTTCL,	
5	TB	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	
5	SO	P8081PESTTCL,	

MC45897: Chain of Custody
Page 2 of 4

Date: 4/11/2016 12:19:09 PM
CSR: matthews
Control #: MS-4/11/2016-2943

Delivery and Pick Up Request

THIS FORM MUST BE RETURNED WITH COOLER -MC45897

Client: Anderson, Mulholland & Associates

Requested By: Terry Taylor **Project:** BMS: Building 5 Area

Delivery Mode: Accutest to Ship **Shipping Mode:** FED-X 2nd Day

Date and Time to: Ship **Date:** 4/14/2016 **Time:** any

Earliest Date: **Earliest Time:**

Deliver bottle order to: AMAI c/o Squibb Manufacturing, Inc.

Address: State Road, No. 3 KM 77.5

City: Humacao **State:** PR **Zipcode:** 00791

Delv Contact: Dave Linstrand **Phone:** 787-656-4924

Deliverable Package: NJ Full **TAT:** 1 & 14 (in Days)

Include with the order: ☑ Extra Labels ☑ COC's

Special Instructions:
for receipt by 4/18/16.
Include international FedEx return labels including PPQ form 550.
Please send 10 additional FedEx shipping labels.

1. Prepared / Relinquished By:	1. Date / Time	1. Received By
2. Relinquished By:	2. Date / Time	2. Received By

# of Samples	Matrix	Analyses Requested	Special Kits Requested
12	SO	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	Low Level Encore
12	SO	BMAEPH [BMAEPHR FOR SHIPMENT DIRECT TO NE - SEND IN SEPARATE COOLER],	
12	SO	D8015LMA, SVOC [AB8270TCL20; MNAP; SIM 14DIOX; SIM NAP],	
14	AQ	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	
14	AQ	BMAEPH [BMAEPHR FOR SHIPMENT DIRECT TO NE - SEND IN SEPARATE COOLER],	
14	AQ	D8015LMA, SVOC [AB8270TCL20; MNAP; SIM 14DIOX; SIM NAP],	
5	FB	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	
5	FB	BMAEPH [BMAEPHR FOR SHIPMENT DIRECT TO NE - SEND IN SEPARATE COOLER],	
5	FB	D8015LMA, SVOC [AB8270TCL20; MNAP; SIM 14DIOX; SIM NAP], P8081PESTTCL,	
5	TB	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	
5	SO	P8081PESTTCL,	

MC45897: Chain of Custody
Page 3 of 4

SGS Accutest Sample Receipt Summary

Job Number: MC45897 **Client:** ANDERSON **Project:** BMS

Date / Time Received: 5/13/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8099 6056 9543

Cooler Temps (Initial/Adjusted): #1: (0.7/0.7); #2: (0.8/0.8);

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. Thermometer ID:	IRGUN1;		
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

Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC45897

BMSMC, Building 5 Area, Puerto Rico
Project No: SM04.00.06

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC45897-1	Collected: 11-MAY-16 15:40 By: TT		Received: 13-MAY-16 By: NT			
RA20-GWD						
MC45897-1	MADEP VPH REV 1.1	13-MAY-16 16:20	DF			VMAVPHR
MC45897-2	Collected: 11-MAY-16 15:47 By: NR		Received: 13-MAY-16 By: NT			
S-40D						
MC45897-2	MADEP VPH REV 1.1	13-MAY-16 16:58	DF			VMAVPHR
MC45897-3	Collected: 12-MAY-16 12:00 By: TT		Received: 13-MAY-16 By: NT			
S39D						
MC45897-3	MADEP VPH REV 1.1	16-MAY-16 12:22	DF			VMAVPHR
MC45897-4	Collected: 12-MAY-16 12:20 By: NR		Received: 13-MAY-16 By: NT			
MW-20S						
MC45897-4	MADEP VPH REV 1.1	13-MAY-16 17:36	DF			VMAVPHR
MC45897-5	Collected: 12-MAY-16 13:29 By: NR		Received: 13-MAY-16 By: NT			
MW-20D						
MC45897-5	MADEP VPH REV 1.1	13-MAY-16 18:14	DF			VMAVPHR
MC45897-6	Collected: 12-MAY-16 14:50 By: TT		Received: 13-MAY-16 By: NT			
S40S						
MC45897-6	MADEP VPH REV 1.1	13-MAY-16 18:52	DF			VMAVPHR
MC45897-1A	Collected: 11-MAY-16 15:40 By: TT		Received: 13-MAY-16 By: NT			
RA20-GWD						
MC45897-1A	MADEP EPH REV 1.1	19-MAY-16 19:46	TA	16-MAY-16	AJ	BMAEPHR
MC45897-2A	Collected: 11-MAY-16 15:47 By: NR		Received: 13-MAY-16 By: NT			
S-40D						
MC45897-2A	MADEP EPH REV 1.1	19-MAY-16 20:15	TA	16-MAY-16	AJ	BMAEPHR

Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC45897

BMSMC, Building 5 Area, Puerto Rico
Project No: SM04.00.06

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC45897-3A S39D	Collected: 12-MAY-16 12:00 By: TT		Received: 13-MAY-16 By: NT			
MC45897-3A	MADEP EPH REV 1.1	19-MAY-16 20:43	TA	16-MAY-16	AJ	BMAEPHR
MC45897-4A MW-20S	Collected: 12-MAY-16 12:20 By: NR		Received: 13-MAY-16 By: NT			
MC45897-4A	MADEP EPH REV 1.1	23-MAY-16 10:25	TA	20-MAY-16	MC	BMAEPHR
MC45897-5A MW-20D	Collected: 12-MAY-16 13:29 By: NR		Received: 13-MAY-16 By: NT			
MC45897-5A	MADEP EPH REV 1.1	19-MAY-16 21:39	TA	16-MAY-16	AJ	BMAEPHR
MC45897-6A S40S	Collected: 12-MAY-16 14:50 By: TT		Received: 13-MAY-16 By: NT			
MC45897-6A	MADEP EPH REV 1.1	19-MAY-16 22:08	TA	16-MAY-16	AJ	BMAEPHR

SGS Accutest Internal Chain of Custody

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 05/13/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC45897-1.1	VOC Ref #3	Daniel Freedman	05/13/16 11:03	Retrieve from Storage
MC45897-1.1	Daniel Freedman	GCBD	05/13/16 11:04	Load on Instrument
MC45897-1.1	GCBD	Anthony Franciosa	05/16/16 08:29	Unload from Instrument
MC45897-1.1	Anthony Franciosa	VOC Ref #3	05/16/16 08:29	Return to Storage
MC45897-1.4	Walk In Ref #22	Gert Dervishaj	05/16/16 14:30	Retrieve from Storage
MC45897-1.4	Gert Dervishaj		05/17/16 23:04	Depleted
MC45897-2.1	VOC Ref #3	Daniel Freedman	05/13/16 11:03	Retrieve from Storage
MC45897-2.1	Daniel Freedman	GCBD	05/13/16 11:04	Load on Instrument
MC45897-2.1	GCBD	Anthony Franciosa	05/16/16 08:29	Unload from Instrument
MC45897-2.1	Anthony Franciosa	VOC Ref #3	05/16/16 08:29	Return to Storage
MC45897-2.4	Walk In Ref #22	Gert Dervishaj	05/16/16 14:30	Retrieve from Storage
MC45897-2.4	Gert Dervishaj		05/17/16 23:04	Depleted
MC45897-3.1	VOC Ref #3	Daniel Freedman	05/13/16 11:03	Retrieve from Storage
MC45897-3.1	Daniel Freedman	GCBD	05/13/16 11:04	Load on Instrument
MC45897-3.1	GCBD	Anthony Franciosa	05/16/16 08:29	Unload from Instrument
MC45897-3.1	Anthony Franciosa	VOC Ref #3	05/16/16 08:29	Return to Storage
MC45897-3.2	VOC Ref #3	Daniel Freedman	05/13/16 11:03	Retrieve from Storage
MC45897-3.2	Daniel Freedman	GCBD	05/13/16 11:04	Load on Instrument
MC45897-3.2	GCBD	Anthony Franciosa	05/16/16 08:29	Unload from Instrument
MC45897-3.2	Anthony Franciosa	VOC Ref #3	05/16/16 08:29	Return to Storage
MC45897-3.4	Walk In Ref #22	Gert Dervishaj	05/16/16 14:30	Retrieve from Storage
MC45897-3.4	Gert Dervishaj		05/17/16 23:04	Depleted
MC45897-3.6	VOC Ref #3	Anthony Franciosa	05/16/16 11:25	Retrieve from Storage
MC45897-3.6	Anthony Franciosa	GCAB	05/16/16 11:25	Load on Instrument
MC45897-3.6	GCAB	Daniel Freedman	05/16/16 12:25	Unload from Instrument
MC45897-3.6	Daniel Freedman	VOC Ref #3	05/16/16 12:26	Return to Storage
MC45897-3.14	Walk In Ref #22	Gert Dervishaj	05/16/16 14:30	Retrieve from Storage
MC45897-3.14	Gert Dervishaj		05/17/16 23:04	Depleted
MC45897-3.15	Walk In Ref #22	Gert Dervishaj	05/16/16 14:30	Retrieve from Storage
MC45897-3.15	Gert Dervishaj		05/17/16 23:04	Depleted
MC45897-4.1	VOC Ref #3	Daniel Freedman	05/13/16 11:03	Retrieve from Storage
MC45897-4.1	Daniel Freedman	GCBD	05/13/16 11:04	Load on Instrument
MC45897-4.1	GCBD	Anthony Franciosa	05/16/16 08:29	Unload from Instrument
MC45897-4.1	Anthony Franciosa	VOC Ref #3	05/16/16 08:29	Return to Storage

SGS Accutest Internal Chain of Custody

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 05/13/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC45897-4.4	Walk In Ref #22	Gert Dervishaj	05/16/16 14:30	Retrieve from Storage
MC45897-4.4	Gert Dervishaj		05/17/16 23:04	Depleted
MC45897-4.5	Walk In Ref #22	Ilir Capi	05/20/16 16:49	Retrieve from Storage
MC45897-5.2	VOC Ref #3	Daniel Freedman	05/13/16 11:03	Retrieve from Storage
MC45897-5.2	Daniel Freedman	GCBD	05/13/16 11:04	Load on Instrument
MC45897-5.2	GCBD	Anthony Franciosa	05/16/16 08:29	Unload from Instrument
MC45897-5.2	Anthony Franciosa	VOC Ref #3	05/16/16 08:29	Return to Storage
MC45897-5.4	Walk In Ref #22	Gert Dervishaj	05/16/16 14:30	Retrieve from Storage
MC45897-5.4	Gert Dervishaj		05/17/16 23:04	Depleted
MC45897-6.1	VOC Ref #3	Daniel Freedman	05/13/16 11:03	Retrieve from Storage
MC45897-6.1	Daniel Freedman	GCBD	05/13/16 11:04	Load on Instrument
MC45897-6.1	GCBD	Anthony Franciosa	05/16/16 08:29	Unload from Instrument
MC45897-6.1	Anthony Franciosa	VOC Ref #3	05/16/16 08:29	Return to Storage
MC45897-6.4	Walk In Ref #22	Gert Dervishaj	05/16/16 14:30	Retrieve from Storage
MC45897-6.4	Gert Dervishaj		05/17/16 23:04	Depleted

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBD3635-MB	BD73545.D	1	05/13/16	DF	n/a	n/a	GBD3635

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

MC45897-1, MC45897-2, MC45897-3, MC45897-4, MC45897-5, MC45897-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	40	ug/l	
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	85%	70-130%
	2,3,4-Trifluorotoluene	105%	70-130%

Method Blank Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBD3635-MB1	BD73577D.D	1	05/16/16	DF	n/a	n/a	GBD3635

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

MC45897-3

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	40	ug/l	
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	84%	70-130%
	2,3,4-Trifluorotoluene	102%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBD3635-BSP	BD73546.D	1	05/13/16	DF	n/a	n/a	GBD3635
GBD3635-BSD	BD73547.D	1	05/13/16	DF	n/a	n/a	GBD3635

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

MC45897-1, MC45897-2, MC45897-4, MC45897-5, MC45897-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	150	142	95	150	100	5	70-130/25
	C9- C12 Aliphatics (Unadj.)	150	125	83	133	89	6	70-130/25
	C9- C10 Aromatics (Unadj.)	50	43.6	87	45.4	91	4	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	86%	89%	70-130%
	2,3,4-Trifluorotoluene	107%	110%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBD3635-BSP1	BD73576C.D	1	05/16/16	DF	n/a	n/a	GBD3635
GBD3635-BSD1	BD73577C.D	1	05/16/16	DF	n/a	n/a	GBD3635

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

MC45897-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	150	137	91	141	94	3	70-130/25
	C9- C12 Aliphatics (Unadj.)	150	117	78	125	83	7	70-130/25
	C9- C10 Aromatics (Unadj.)	50	44.6	89	45.3	91	2	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	88%	89%	70-130%
	2,3,4-Trifluorotoluene	107%	107%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC45897-3MS	BD73552.D	1	05/13/16	DF	n/a	n/a	GBD3635
MC45897-3MSD	BD73553.D	1	05/13/16	DF	n/a	n/a	GBD3635
MC45897-3	BD73577B.D	1	05/16/16	DF	n/a	n/a	GBD3635

The QC reported here applies to the following samples: **Method:** MADEP VPH REV 1.1

MC45897-1, MC45897-2, MC45897-3, MC45897-4, MC45897-5, MC45897-6

CAS No.	Compound	MC45897-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	ND		350	333	95	350	322	92	3	70-130/25
	C9- C12 Aliphatics (Unadj.)	ND		400	490	122	400	466	116	5	70-130/25
	C9- C10 Aromatics (Unadj.)	ND		150	156	104	150	144	96	8	70-130/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45897-3	Limits
	2,3,4-Trifluorotoluene	85%	84%	85%	70-130%
	2,3,4-Trifluorotoluene	101%	101%	103%	70-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Method: MADEP VPH REV 1.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC45897-1	BD73555.D	87	103
MC45897-2	BD73556.D	85	103
MC45897-3	BD73577B.D	85	103
MC45897-4	BD73557.D	86	106
MC45897-5	BD73558.D	87	108
MC45897-6	BD73559.D	87	108
GBD3635-BSD	BD73547.D	89	110
GBD3635-BSD1	BD73577C.D	89	107
GBD3635-BSP	BD73546.D	86	107
GBD3635-BSP1	BD73576C.D	88	107
GBD3635-MB	BD73545.D	85	105
GBD3635-MB1	BD73577D.D	84	102
MC45897-3MS	BD73552.D	85	101
MC45897-3MSD	BD73553.D	84	101

Surrogate Compounds	Recovery Limits
S1 = 2,3,4-Trifluorotoluene	70-130%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3635-CC3572	**Injection Date:**	05/13/16
Lab File ID:	BD73544.D	**Injection Time:**	09:23
Instrument ID:	GCBD	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std	21.24	21.24

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GBD3635-MB	BD73545.D	05/13/16	10:01	21.24	21.24
GBD3635-BSP	BD73546.D	05/13/16	10:39	21.24	21.24
GBD3635-BSD	BD73547.D	05/13/16	11:17	21.24	21.24
MC45880-1	BD73548.D	05/13/16	11:54	21.24	21.24
MC45897-3MS	BD73552.D	05/13/16	14:26	21.24	21.24
MC45897-3MSD	BD73553.D	05/13/16	15:04	21.24	21.24
MC45880-1	BD73554.D	05/13/16	15:43	21.24	21.24
MC45897-1	BD73555.D	05/13/16	16:20	21.24	21.24
MC45897-2	BD73556.D	05/13/16	16:58	21.24	21.24
MC45897-4	BD73557.D	05/13/16	17:36	21.24	21.24
MC45897-5	BD73558.D	05/13/16	18:14	21.24	21.25
MC45897-6	BD73559.D	05/13/16	18:52	21.25	21.25
ZZZZZZ	BD73560.D	05/13/16	19:31	21.25	21.25
ZZZZZZ	BD73561.D	05/13/16	20:10	21.24	21.24
ZZZZZZ	BD73562.D	05/13/16	20:48	21.24	21.24
ZZZZZZ	BD73563.D	05/13/16	21:27	21.24	21.24
ZZZZZZ	BD73564.D	05/13/16	22:05	21.25	21.25
ZZZZZZ	BD73565.D	05/13/16	22:44	21.24	21.24
ZZZZZZ	BD73566.D	05/13/16	23:22	21.24	21.24
ZZZZZZ	BD73567.D	05/14/16	00:00	21.24	21.24
ZZZZZZ	BD73568.D	05/14/16	00:39	21.24	21.24
ZZZZZZ	BD73569.D	05/14/16	01:17	21.24	21.24

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3635-CC3572	**Injection Date:**	05/16/16
Lab File ID:	BD73574C.D	**Injection Time:**	09:15
Instrument ID:	GCBD	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std	21.24	21.24

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GBD3636-BSP	BD73576.D	05/16/16	10:30	21.24	21.24
GBD3635-BSP1	BD73576C.D	05/16/16	10:30	21.24	21.24
GBD3635-BSD1	BD73577C.D	05/16/16	11:07	21.24	21.24
GBD3636-BSD	BD73577.D	05/16/16	11:07	21.24	21.24
GBD3635-MB1	BD73577D.D	05/16/16	11:44	21.24	21.24
GBD3636-MB	BD73577A.D	05/16/16	11:44	21.24	21.24
MC45897-3	BD73577B.D	05/16/16	12:22	21.24	21.24
ZZZZZZ	BD73578.D	05/16/16	12:59	21.24	21.24
MC45910-4	BD73579.D	05/16/16	13:37	21.24	21.24
MC45910-4MS	BD73580.D	05/16/16	14:14	21.24	21.24
MC45910-4MSD	BD73581.D	05/16/16	14:52	21.24	21.24
ZZZZZZ	BD73582.D	05/16/16	15:30	21.24	21.24
ZZZZZZ	BD73583.D	05/16/16	16:08	21.24	21.24
ZZZZZZ	BD73584.D	05/16/16	16:46	21.24	21.24
ZZZZZZ	BD73585.D	05/16/16	17:24	21.24	21.24
ZZZZZZ	BD73586.D	05/16/16	18:02	21.24	21.24
ZZZZZZ	BD73587.D	05/16/16	18:40	21.24	21.24
ZZZZZZ	BD73588.D	05/16/16	19:17	21.24	21.24
ZZZZZZ	BD73589.D	05/16/16	19:55	21.24	21.24
ZZZZZZ	BD73590.D	05/16/16	20:32	21.24	21.24
ZZZZZZ	BD73591.D	05/16/16	21:10	21.24	21.24

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3636-CC3572	**Injection Date:**	05/16/16
Lab File ID:	BD73574.D	**Injection Time:**	09:15
Instrument ID:	GCBD	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std	21.24	21.24

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GBD3636-BSP	BD73576.D	05/16/16	10:30	21.24	21.24
GBD3635-BSP1	BD73576C.D	05/16/16	10:30	21.24	21.24
GBD3635-BSD1	BD73577C.D	05/16/16	11:07	21.24	21.24
GBD3636-BSD	BD73577.D	05/16/16	11:07	21.24	21.24
GBD3635-MB1	BD73577D.D	05/16/16	11:44	21.24	21.24
GBD3636-MB	BD73577A.D	05/16/16	11:44	21.24	21.24
MC45897-3	BD73577B.D	05/16/16	12:22	21.24	21.24
ZZZZZZ	BD73578.D	05/16/16	12:59	21.24	21.24
MC45910-4	BD73579.D	05/16/16	13:37	21.24	21.24
MC45910-4MS	BD73580.D	05/16/16	14:14	21.24	21.24
MC45910-4MSD	BD73581.D	05/16/16	14:52	21.24	21.24
ZZZZZZ	BD73582.D	05/16/16	15:30	21.24	21.24
ZZZZZZ	BD73583.D	05/16/16	16:08	21.24	21.24
ZZZZZZ	BD73584.D	05/16/16	16:46	21.24	21.24
ZZZZZZ	BD73585.D	05/16/16	17:24	21.24	21.24
ZZZZZZ	BD73586.D	05/16/16	18:02	21.24	21.24
ZZZZZZ	BD73587.D	05/16/16	18:40	21.24	21.24
ZZZZZZ	BD73588.D	05/16/16	19:17	21.24	21.24
ZZZZZZ	BD73589.D	05/16/16	19:55	21.24	21.24
ZZZZZZ	BD73590.D	05/16/16	20:32	21.24	21.24
ZZZZZZ	BD73591.D	05/16/16	21:10	21.24	21.24

Surrogate Compounds

S1 = 2,3,4-Trifluorotoluene

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

Initial Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3572-ICC3572
Lab FileID: BD72684.D

```
                         Response Factor Report  GCBD

  Method       : C:\msdchem\1\methods\bd160219vph.M (ChemStation Integrator)
  Title        : vph  nap linear regression inverse
  Last Update  : Fri Feb 19 13:40:08 2016
  Response via : Initial Calibration

  Calibration Files
  1   =bd72680.d   2   =bd72681.d   4   =bd72683.d   3   =bd72682.d
  5   =bd72684.d   9   =bd72688.d   6   =bd72685.d   8   =bd72687.d
  7   =bd72686.d       =

   Compound
             1     2     4     3     5     9     6     8     7       Avg    %RSD
  ---------------------------------------------------------------------------
  1)  rt5.5-7
            6.167                   6.167                           6.167 E5    0.00
  2)  rt7/10
            6.167                   6.167                           6.167 E5    0.00
  3)  rt10/13
            6.167                   6.167                           6.167 E5    0.00
  4)  fluorobenzene
            6.573 5.605 7.008 6.100 6.815 6.909 7.790 7.060 7.376   6.804 E5    9.59
  5)  rt13/16
                                                                    0.000   -1.00
  6)  2,3,4-trifluorotoluene
            5.065 4.479 5.493 4.501 5.394 5.207 5.892 5.076 5.783   5.210 E5    9.56
  7)  rt16/20
                                                                    0.000   -1.00
  8)  rt20/25
            8.002                   8.002                           8.002 E5    0.00
  9)  rt25/29
                                                                    0.000   -1.00
 10)  decane
            8.002                   8.002                           8.002 E5    0.00
 11)  butylcyclohexane
            8.002                   8.002                           8.002 E5    0.00
 12)  2,5-dibromotoluene
                                                                    0.000   -1.00

Signal #2

 14)  mtbe #2
            1.368 1.460 1.667 1.610 1.593 1.466 1.570 1.600 1.536   1.541 E5    6.07
 15)  benzene #2
            4.861 4.876 5.056 5.081 4.822 4.969 4.569 4.719 4.570   4.836 E5    3.90
 16)  fluorobenzene #2
            3.079 3.091 3.220 3.214 3.077 3.733 3.886 3.554 3.680   3.393 E5    9.43
 17)  toluene #2
            4.626 4.588 4.711 4.756 4.512 4.707 4.237 4.493 4.115   4.527 E5    4.86
 18)  2,3,4-trifluorotoluene #2
            1.932 1.869 1.891 1.909 1.814 2.067 2.170 1.877 2.188   1.969 E5    6.99
 19)  ethylbenzene #2
            4.459 4.298 4.247 4.336 4.065 4.136 3.841 4.132 3.838   4.150 E5    5.12
 20)  m,p-xylene #2
            5.131 5.050 5.113 5.152 4.929 5.039 4.682 5.068 4.695   4.984 E5    3.61
 21)  o-xylene #2
            4.551 4.406 4.313 4.400 4.169 4.837 4.014 4.366 4.075   4.348 E5    5.78
 22)  1,3,5-trimethylbenzene #2
            6.721 6.794 6.567 6.734 6.343 7.129 6.606 6.779 6.720   6.710 E5    3.14
```

Initial Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3572-ICC3572
Lab FileID: BD72684.D

```
23)  1,2,4-trimethylbenzene #2
           5.032 5.133 4.940 5.083 4.785 5.310 4.478 4.993 4.514   4.919 E5    5.66
24)  naphthalene #2
           3.386 3.828 4.165 4.078 3.817 2.045 2.922 2.364 2.469   3.230 E5   24.83
            ----- Linear regression -----  Coefficient =  0.9932
              Response Ratio = -203870.32475 + 364658.28656 *A

25)  c9-c10 arom as 1,2,4-tmb
           5.032 5.131 4.938 5.082 4.785 5.305 4.490 4.970 4.516   4.917 E5    5.57
26)  2,5-dibromotoluene #2
                                                                   0.000   -1.00
---------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          bd160219vph.M        Mon Feb 22 09:47:37 2016
```

6.6.1

6

Initial Calibration Verification

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GBD3572-ICV3572
Lab FileID: BD72689.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 13:13:33
Operator  : tonyf
Sample    : icv3572-50 (Sig #1); icv3752-50 (Sig #2)
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:52:11 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  25%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 120%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	655.426 E3	-6.3	106	0.00
2	h	rt7/10	616.746	750.384 E3	-21.7	122#	0.00
3	h	rt10/13	616.746	731.652 E3	-18.6	119	0.00
4	s	fluorobenzene	680.404	711.439 E3	-4.6	104	0.00
6	s	2,3,4-trifluorotoluene	521.007	568.598 E3	-9.1	105	0.00
8	h	rt20/25	800.224	779.568 E3	2.6	97	0.00
10	h	decane	800.224	744.411 E3	7.0	93	0.00
11	h	butylcyclohexane	800.224	823.380 E3	-2.9	103	0.00
Signal #2							
14		mtbe #2	154.108	165.674 E3	-7.5	104	-0.01
15		benzene #2	483.603	498.327 E3	-3.0	103	0.00
16	s	fluorobenzene #2	339.253	315.976 E3	6.9	103	0.00
17		toluene #2	452.718	462.927 E3	-2.3	103	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	184.637 E3	6.2	102	0.00
19		ethylbenzene #2	415.011	415.024 E3	-0.0	102	0.00
20		m,p-xylene #2	498.443	499.938 E3	-0.3	101	0.00
21		o-xylene #2	434.786	421.153 E3	3.1	101	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	640.180 E3	4.6	101	0.00
23		1,2,4-trimethylbenzene #2	491.876	480.818 E3	2.2	100	0.00
24		naphthalene #2	323.046	398.944 E3	-23.5	105	0.00
25	h	c9-c10 arom as 1,2,4-tmb	491.650	479.578 E3	2.5	100	0.00

Evaluate Continuing Calibration Report - Not Founds

5		rt13/16	0.000	0.000	0.0	0#	0.00
7		rt16/20	0.000	0.000	0.0	0#	0.00
9		rt25/29	0.000	0.000	0.0	0#	0.00
12		2,5-dibromotoluene	0.000	0.000	0.0	0#	0.00

Initial Calibration Verification

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3572-ICV3572
Lab FileID: BD72689.D

```
  Signal #2

 26     2,5-dibromotoluene #2         0.000   0.000       0.0     0#  0.00
 ---------------------------------------------------------------------------

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

bd160219vph.M Mon Feb 22 09:47:17 2016
```

Continuing Calibration Summary

Job Number: MC45897 **Sample:** GBD3635-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73544.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 09:23:24
Operator  : danielf
Sample    : cc3572-50
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:02:20 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	560.584 E3	9.1	91	0.00
2	h	rt7/10	616.746	665.202 E3	-7.9	108	0.00
3	h	rt10/13	616.746	609.253 E3	1.2	99	0.00
4	s	fluorobenzene	680.404	712.586 E3	-4.7	105	0.00
6	s	2,3,4-trifluorotoluene	521.007	563.401 E3	-8.1	104	0.00
8	h	rt20/25	800.224	667.132 E3	16.6	83	0.00
10	h	decane	800.224	651.460 E3	18.6	81	0.00
11	h	butylcyclohexane	800.224	750.042 E3	6.3	94	0.00
Signal #2							
14		mtbe #2	154.108	153.627 E3	0.3	96	-0.02
15		benzene #2	483.603	454.738 E3	6.0	94	0.00
16	s	fluorobenzene #2	339.253	301.498 E3	11.1	98	0.00
17		toluene #2	452.718	425.186 E3	6.1	94	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	171.427 E3	12.9	94	0.00
19		ethylbenzene #2	415.011	376.607 E3	9.3	93	0.00
20		m,p-xylene #2	498.443	455.775 E3	8.6	92	0.00
21		o-xylene #2	434.786	387.183 E3	10.9	93	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	558.037 E3	16.8	88	0.01
23		1,2,4-trimethylbenzene #2	491.876	438.138 E3	10.9	92	0.00
24		naphthalene #2	323.046	379.687 E3	-17.5	99	0.01
25	h	c9-c10 arom as 1,2,4-tmb	491.650	437.263 E3	11.1	91	0.00

Evaluate Continuing Calibration Report - Not Founds

5		rt13/16	0.000	0.000	0.0	0#	0.00
7		rt16/20	0.000	0.000	0.0	0#	0.00
9		rt25/29	0.000	0.000	0.0	0#	0.00
12		2,5-dibromotoluene	0.000	0.000	0.0	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3635-CC3572
Lab FileID: BD73544.D

```
  Signal #2

 26     2,5-dibromotoluene #2         0.000   0.000       0.0     0#  0.00
 ---------------------------------------------------------------------------

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

bd160513vph.M Mon May 16 12:38:13 2016
```

Continuing Calibration Summary

Job Number: MC45897 **Sample:** GBD3635-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73573.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73573.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 14-May-16, 03:49:43
Operator  : danielf
Sample    : cc3572-50
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 30 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:05:28 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	556.832 E3	9.7	90	0.00
2	h	rt7/10	616.746	672.656 E3	-9.1	109	0.00
3	h	rt10/13	616.746	601.278 E3	2.5	97	0.00
4	s	fluorobenzene	680.404	739.713 E3	-8.7	109	0.00
6	s	2,3,4-trifluorotoluene	521.007	567.333 E3	-8.9	105	0.00
8	h	rt20/25	800.224	696.578 E3	13.0	87	0.00
10	h	decane	800.224	646.766 E3	19.2	81	0.00
11	h	butylcyclohexane	800.224	763.118 E3	4.6	95	0.00
Signal #2							
14		mtbe #2	154.108	152.881 E3	0.8	96	-0.01
15		benzene #2	483.603	455.798 E3	5.7	95	0.00
16	s	fluorobenzene #2	339.253	294.536 E3	13.2	96	0.00
17		toluene #2	452.718	428.401 E3	5.4	95	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	171.336 E3	13.0	94	0.00
19		ethylbenzene #2	415.011	382.936 E3	7.7	94	0.00
20		m,p-xylene #2	498.443	463.454 E3	7.0	94	0.00
21		o-xylene #2	434.786	390.888 E3	10.1	94	0.01
22	t	1,3,5-trimethylbenzene #2	671.032	561.361 E3	16.3	89	0.01
23		1,2,4-trimethylbenzene #2	491.876	442.054 E3	10.1	92	0.01
24		naphthalene #2	323.046	380.421 E3	-17.8	100	0.02
25	h	c9-c10 arom as 1,2,4-tmb	491.650	441.051 E3	10.3	92	0.00

Evaluate Continuing Calibration Report - Not Founds

5		rt13/16	0.000	0.000	0.0	0#	0.00
7		rt16/20	0.000	0.000	0.0	0#	0.00
9		rt25/29	0.000	0.000	0.0	0#	0.00
12		2,5-dibromotoluene	0.000	0.000	0.0	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3635-CC3572
Lab FileID: BD73573.D

```
  Signal #2

 26     2,5-dibromotoluene #2         0.000   0.000       0.0     0#  0.00
 ---------------------------------------------------------------------------

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

bd160513vph.M Mon May 16 12:38:15 2016
```

Continuing Calibration Summary

Job Number: MC45897 **Sample:** GBD3635-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73574C.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73574c.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 16-May-16, 09:15:09
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 09:52:24 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	513.876 E3	16.7	83	0.00
2	h	rt7/10	616.746	628.069 E3	-1.8	102	0.00
3	h	rt10/13	616.746	553.824 E3	10.2	90	0.00
4	s	fluorobenzene	680.404	686.763 E3	-0.9	101	0.00
6	s	2,3,4-trifluorotoluene	521.007	531.278 E3	-2.0	98	0.00
8	h	rt20/25	800.224	646.983 E3	19.1	81	0.00
10	h	decane	800.224	623.982 E3	22.0	78	0.00
11	h	butylcyclohexane	800.224	726.236 E3	9.2	91	0.00
Signal #2							
14		mtbe #2	154.108	143.042 E3	7.2	90	-0.01
15		benzene #2	483.603	437.666 E3	9.5	91	0.00
16	s	fluorobenzene #2	339.253	279.987 E3	17.5	91	0.00
17		toluene #2	452.718	411.228 E3	9.2	91	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	164.110 E3	16.6	90	0.00
19		ethylbenzene #2	415.011	366.027 E3	11.8	90	0.00
20		m,p-xylene #2	498.443	443.961 E3	10.9	90	0.00
21		o-xylene #2	434.786	374.978 E3	13.8	90	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	540.786 E3	19.4	85	0.00
23		1,2,4-trimethylbenzene #2	491.876	423.705 E3	13.9	89	0.00
24		naphthalene #2	323.046	331.113 E3	-2.5	87	0.01
25	h	c9-c10 arom as 1,2,4-tmb	491.650	424.103 E3	13.7	89	0.00

Evaluate Continuing Calibration Report - Not Founds

5		rt13/16	0.000	0.000	0.0	0#	0.00
7		rt16/20	0.000	0.000	0.0	0#	0.00
9		rt25/29	0.000	0.000	0.0	0#	0.00
12		2,5-dibromotoluene	0.000	0.000	0.0	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3635-CC3572
Lab FileID: BD73574C.D

```
  Signal #2

 26     2,5-dibromotoluene #2         0.000   0.000       0.0     0#  0.00
 ---------------------------------------------------------------------------

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

bd160516vph.M Mon May 16 13:14:08 2016
```

Continuing Calibration Summary

Job Number: MC45897 **Sample:** GBD3636-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73574.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73574.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 16-May-16, 09:15:09
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26239,gbd3636,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 09:52:24 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	513.876 E3	16.7	83	0.00
2	h	rt7/10	616.746	628.069 E3	-1.8	102	0.00
3	h	rt10/13	616.746	553.824 E3	10.2	90	0.00
4	s	fluorobenzene	680.404	686.763 E3	-0.9	101	0.00
6	s	2,3,4-trifluorotoluene	521.007	531.278 E3	-2.0	98	0.00
8	h	rt20/25	800.224	646.983 E3	19.1	81	0.00
10	h	decane	800.224	623.982 E3	22.0	78	0.00
11	h	butylcyclohexane	800.224	726.236 E3	9.2	91	0.00
Signal #2							
14		mtbe #2	154.108	143.042 E3	7.2	90	-0.01
15		benzene #2	483.603	437.666 E3	9.5	91	0.00
16	s	fluorobenzene #2	339.253	279.987 E3	17.5	91	0.00
17		toluene #2	452.718	411.228 E3	9.2	91	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	164.110 E3	16.6	90	0.00
19		ethylbenzene #2	415.011	366.027 E3	11.8	90	0.00
20		m,p-xylene #2	498.443	443.961 E3	10.9	90	0.00
21		o-xylene #2	434.786	374.978 E3	13.8	90	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	540.786 E3	19.4	85	0.00
23		1,2,4-trimethylbenzene #2	491.876	423.705 E3	13.9	89	0.00
24		naphthalene #2	323.046	331.113 E3	-2.5	87	0.01
25	h	c9-c10 arom as 1,2,4-tmb	491.650	424.103 E3	13.7	89	0.00

Evaluate Continuing Calibration Report - Not Founds

5		rt13/16	0.000	0.000	0.0	0#	0.00
7		rt16/20	0.000	0.000	0.0	0#	0.00
9		rt25/29	0.000	0.000	0.0	0#	0.00
12		2,5-dibromotoluene	0.000	0.000	0.0	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3636-CC3572
Lab FileID: BD73574.D

```
  Signal #2

 26     2,5-dibromotoluene #2         0.000   0.000       0.0     0#  0.00
 ---------------------------------------------------------------------------

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

bd160516vph.M Mon May 16 13:14:06 2016
```

Continuing Calibration Summary

Job Number: MC45897 **Sample:** GBD3636-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73592.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 16-May-16, 21:47:58
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26239,gbd3636,,,,5,1
ALS Vial  : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 17 06:36:42 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	521.689 E3	15.4	85	0.00
2	h	rt7/10	616.746	637.359 E3	-3.3	103	0.00
3	h	rt10/13	616.746	541.787 E3	12.2	88	0.00
4	s	fluorobenzene	680.404	716.212 E3	-5.3	105	0.00
6	s	2,3,4-trifluorotoluene	521.007	550.301 E3	-5.6	102	0.00
8	h	rt20/25	800.224	635.983 E3	20.5	79	0.00
10	h	decane	800.224	590.974 E3	26.1#	74#	0.00
11	h	butylcyclohexane	800.224	683.679 E3	14.6	85	0.00
Signal #2							
14		mtbe #2	154.108	153.297 E3	0.5	96	-0.01
15		benzene #2	483.603	458.751 E3	5.1	95	0.00
16	s	fluorobenzene #2	339.253	297.179 E3	12.4	97	0.00
17		toluene #2	452.718	428.666 E3	5.3	95	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	168.070 E3	14.6	93	0.00
19		ethylbenzene #2	415.011	381.248 E3	8.1	94	0.00
20		m,p-xylene #2	498.443	462.688 E3	7.2	94	0.00
21		o-xylene #2	434.786	389.068 E3	10.5	93	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	551.961 E3	17.7	87	0.00
23		1,2,4-trimethylbenzene #2	491.876	433.777 E3	11.8	91	0.00
24		naphthalene #2	323.046	354.063 E3	-9.6	93	0.00
25	h	c9-c10 arom as 1,2,4-tmb	491.650	433.080 E3	11.9	90	0.00

Evaluate Continuing Calibration Report - Not Founds

5		rt13/16	0.000	0.000	0.0	0#	0.00
7		rt16/20	0.000	0.000	0.0	0#	0.00
9		rt25/29	0.000	0.000	0.0	0#	0.00
12		2,5-dibromotoluene	0.000	0.000	0.0	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3636-CC3572
Lab FileID: BD73592.D

```
  Signal #2

 26     2,5-dibromotoluene #2         0.000   0.000       0.0     0#  0.00
 ---------------------------------------------------------------------------

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

bd160516vph.M Tue May 17 08:09:01 2016
```

GC Volatiles

Raw Data

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73555.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:20:56
Operator : danielf
Sample : mc45897-1,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:47:12 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.427	33306498	48.951	ppb	
Spiked Amount 50.000		Recovery = 97.90%			
6) s 2,3,4-trifluorotoluene	21.244	26881281	51.595	ppb	
Spiked Amount 50.000		Recovery = 103.19%			
16) s fluorobenzene #2	16.428	14058465	41.439	ppb	
Spiked Amount 50.000		Recovery = 82.88%			
18) s 2,3,4-trifluorotoluen...	21.243	8569291	43.531	ppb	
Spiked Amount 50.000		Recovery = 87.06%			
Target Compounds					
1) h rt5.5-7	7.470	2001719	3.246	ppb	m
2) h rt7/10	9.920	4192301	6.797	ppb	m
3) h rt10/13	15.200	12972183	21.033	ppb	
8) h rt20/25	22.840	21196243	26.488	ppb	
14) mtbe #2	10.697	626161	4.063	ppb	m
24) naphthalene #2	28.767f	164740	1.011	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	10909559	22.190	ppb	m

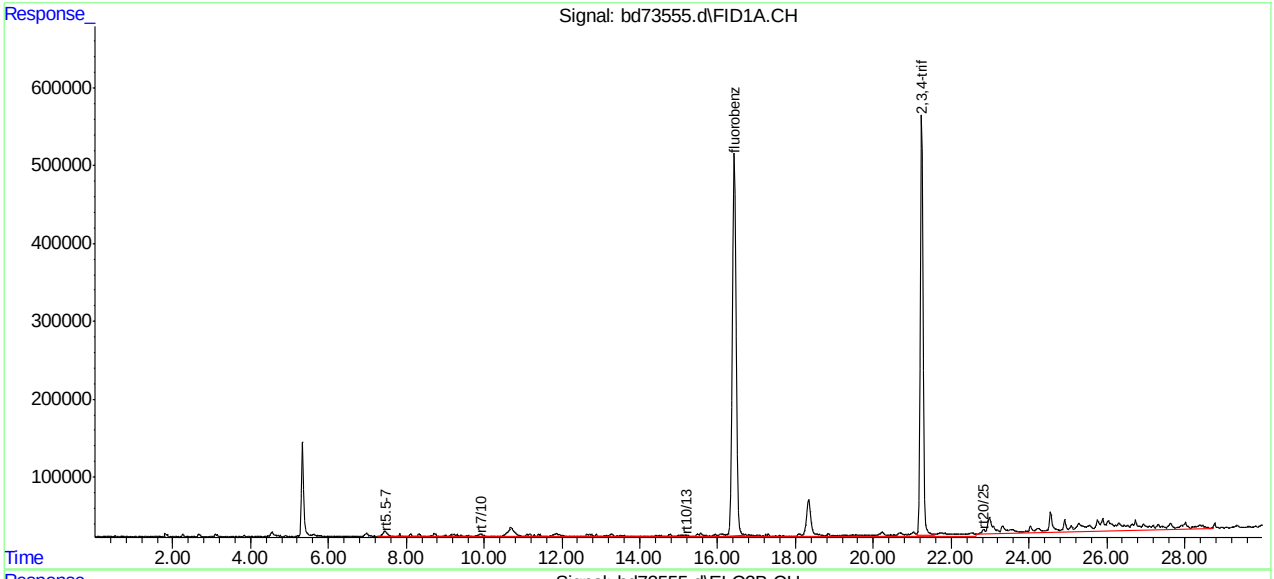
(f)=RT Delta > 1/2 Window (m)=manual int.

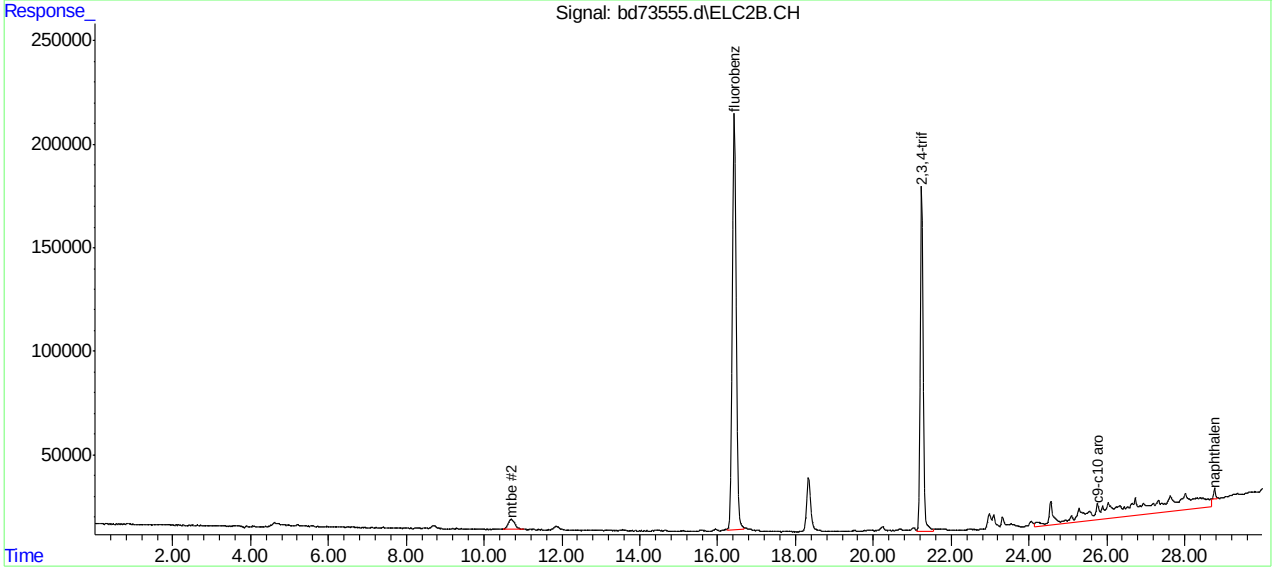
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73555.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:20:56
Operator : danielf
Sample : mc45897-1,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

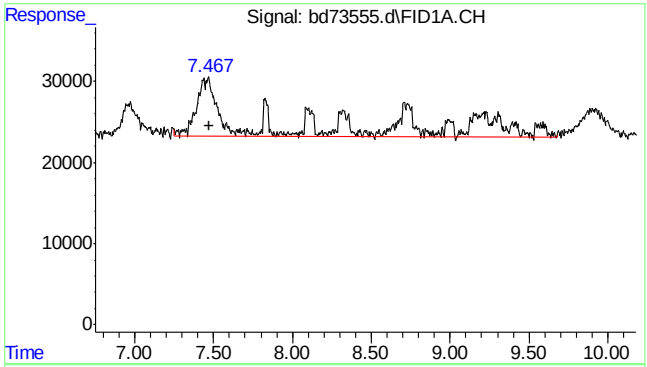
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:47:12 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



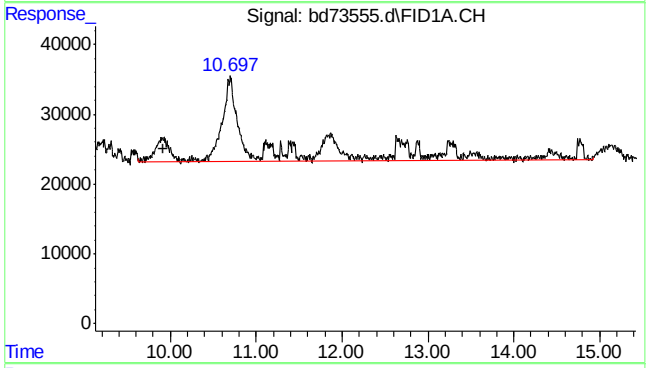


SGS ACCUTEST MC45897



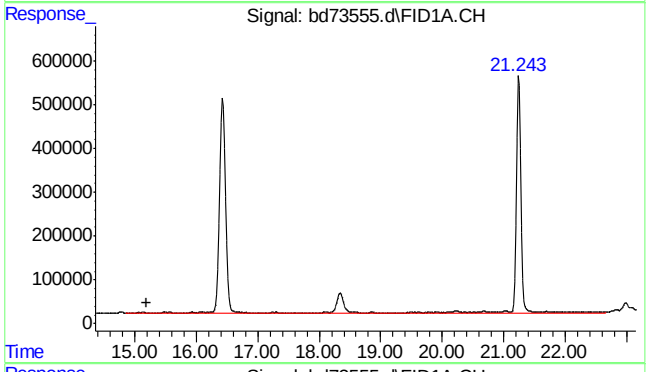
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 2001719
Conc: 3.25 ppb m



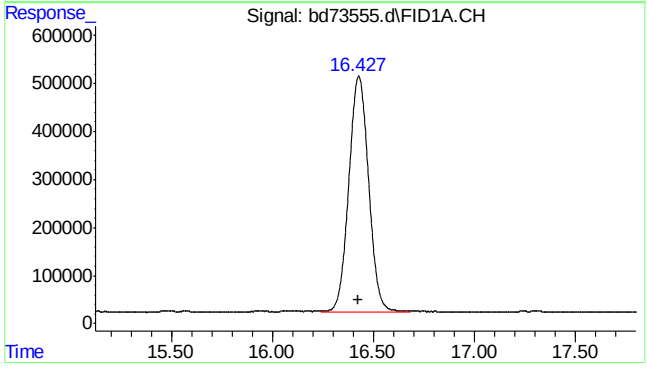
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 4192301
Conc: 6.80 ppb m



#3 rt10/13

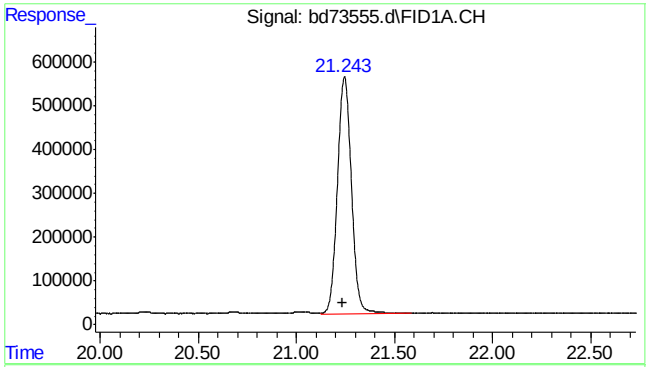
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 12972183
Conc: 21.03 ppb



#4 fluorobenzene

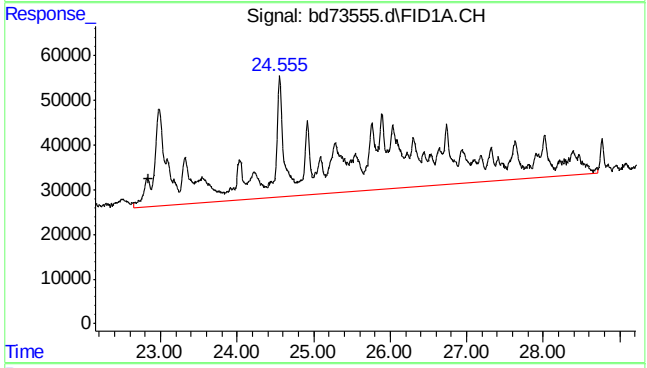
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 33306498
Conc: 48.95 ppb

SGS ACCUTEST MC45897



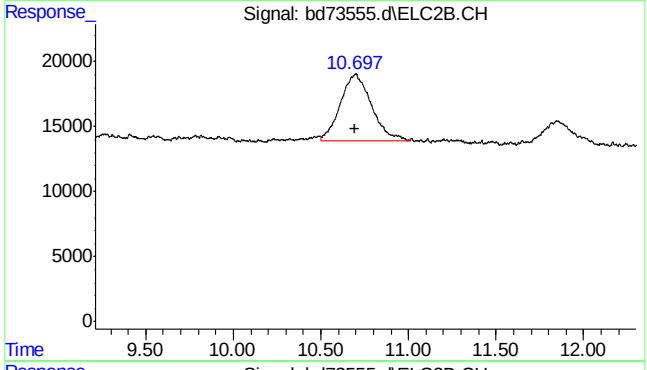
#6 2,3,4-trifluorotoluene

R.T.: 21.244 min
Delta R.T.: 0.007 min
Response: 26881281
Conc: 51.59 ppb



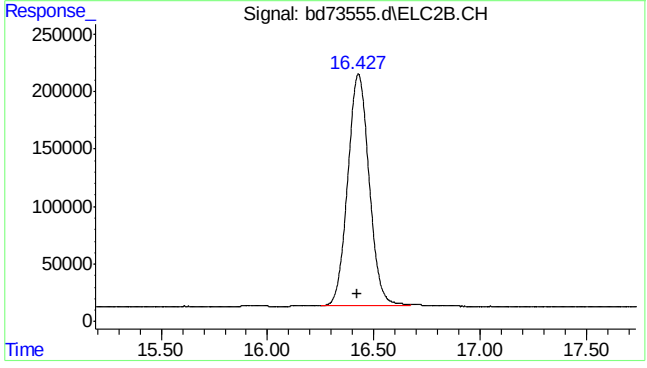
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 21196243
Conc: 26.49 ppb



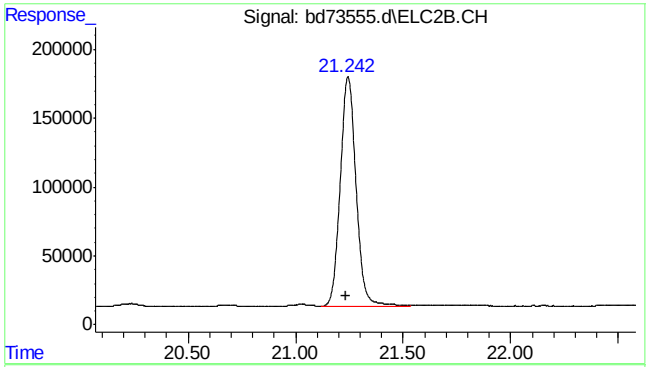
#14 mtbe #2

R.T.: 10.697 min
Delta R.T.: 0.000 min
Response: 626161
Conc: 4.06 ppb m



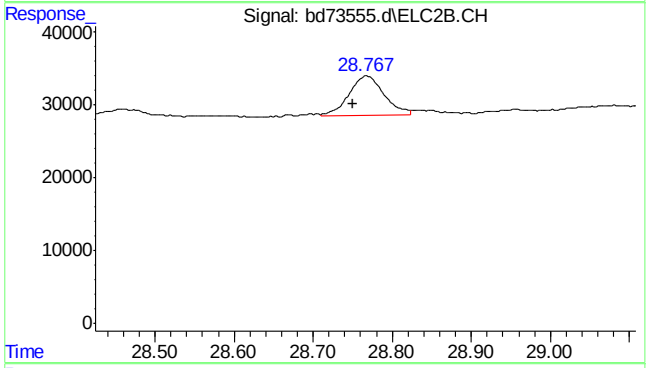
#16 fluorobenzene #2

R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 14058465
Conc: 41.44 ppb



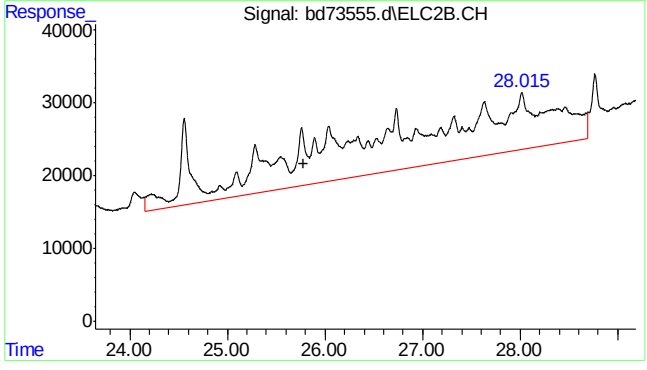
#18 2,3,4-trifluorotoluene #2

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 8569291
Conc: 43.53 ppb



#24 naphthalene #2

R.T.: 28.767 min
Delta R.T.: 0.017 min
Response: 164740
Conc: 1.01 ppb m



#25 c9-c10 arom as 1,2,4-tmb

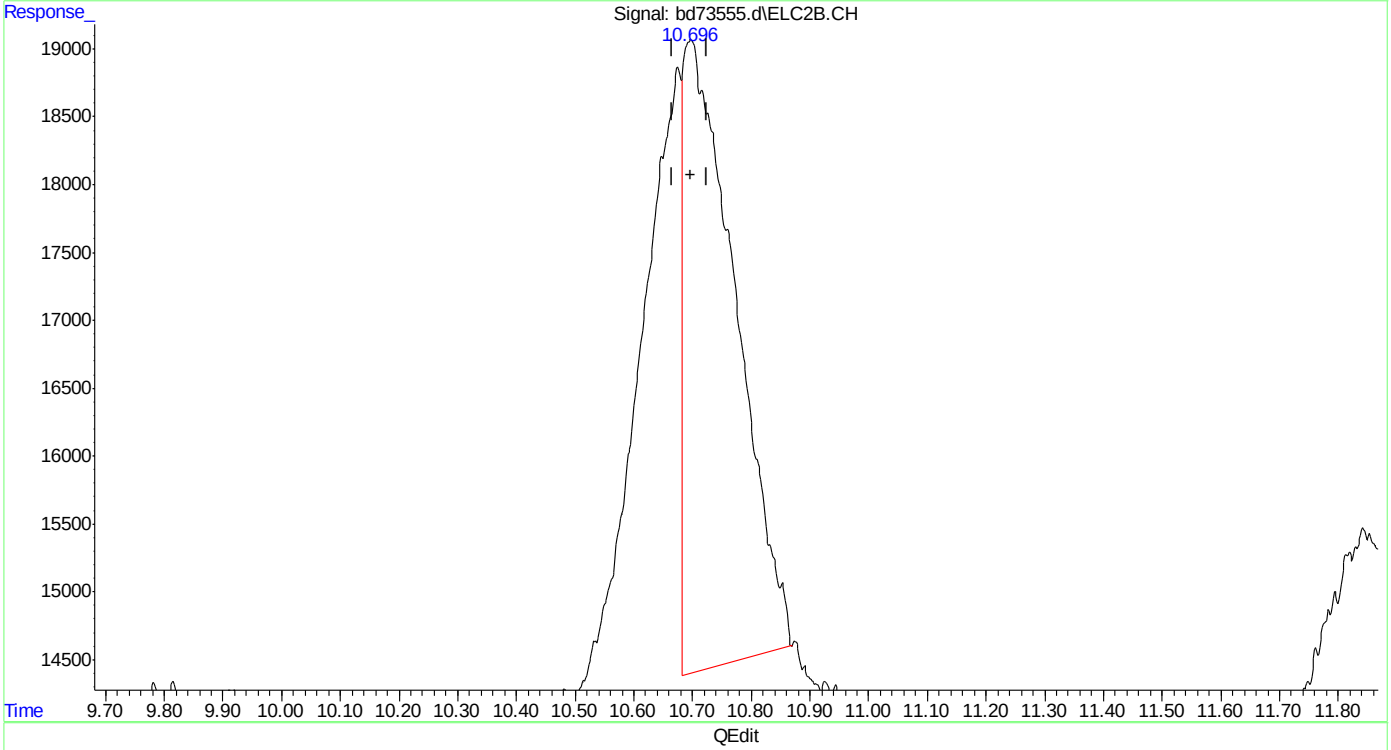
R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 10909559
Conc: 22.19 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73555.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:20:56
Operator : danielf
Sample : mc45897-1,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:23:55 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.698min 1.861 ppb
response 286829

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:46:11 2016

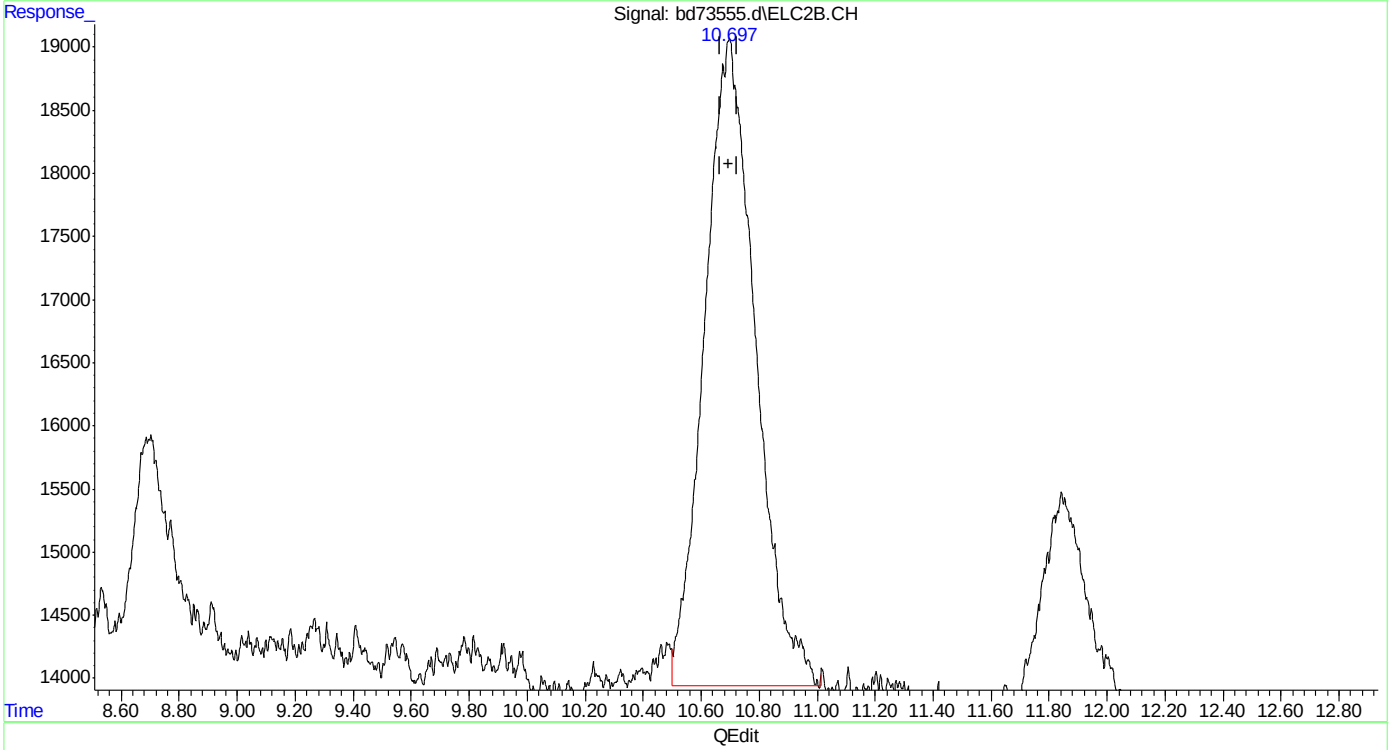
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73555.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:20:56
Operator : danielf
Sample : mc45897-1,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:23:55 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.697min 4.063 ppb m
response 626161

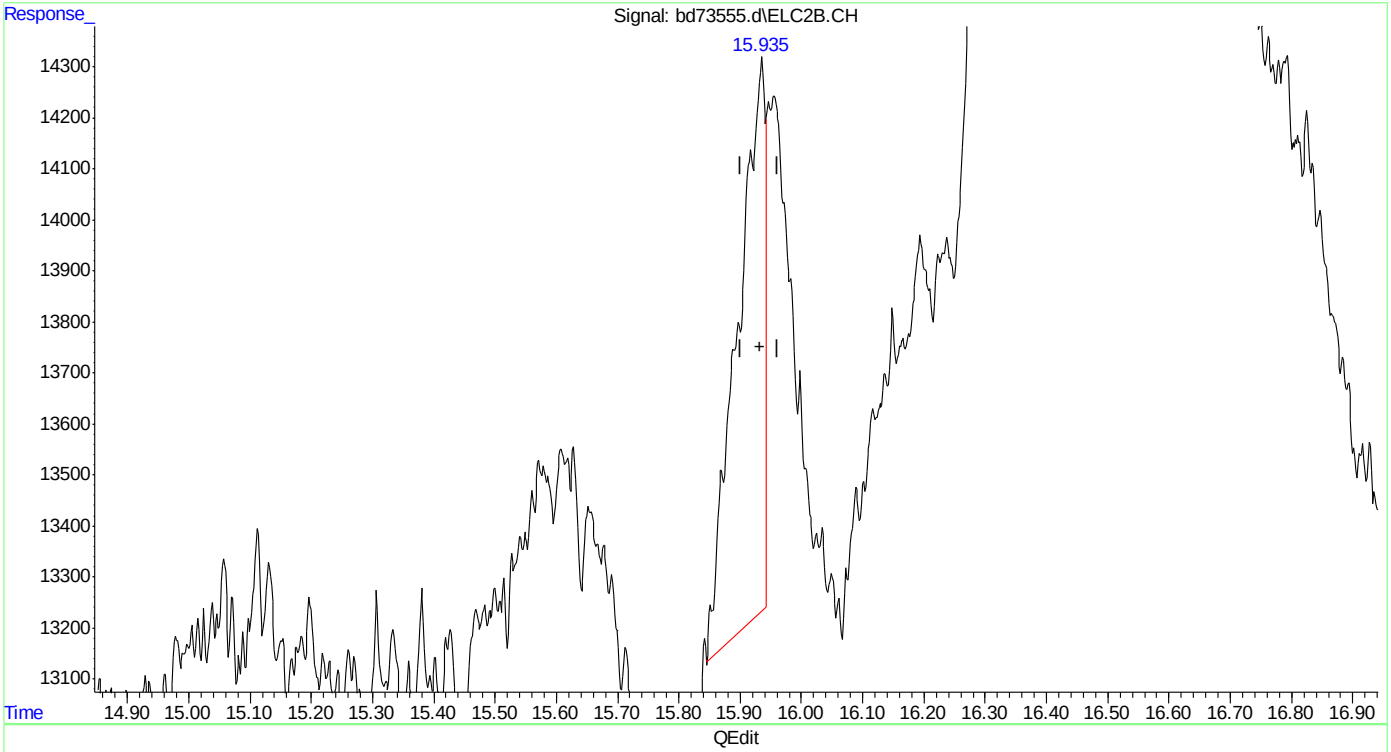
(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:46:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73555.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:20:56
Operator : danielf
Sample : mc45897-1,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:23:55 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
15.935min 0.070 ppb
response 33659

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:46:30 2016

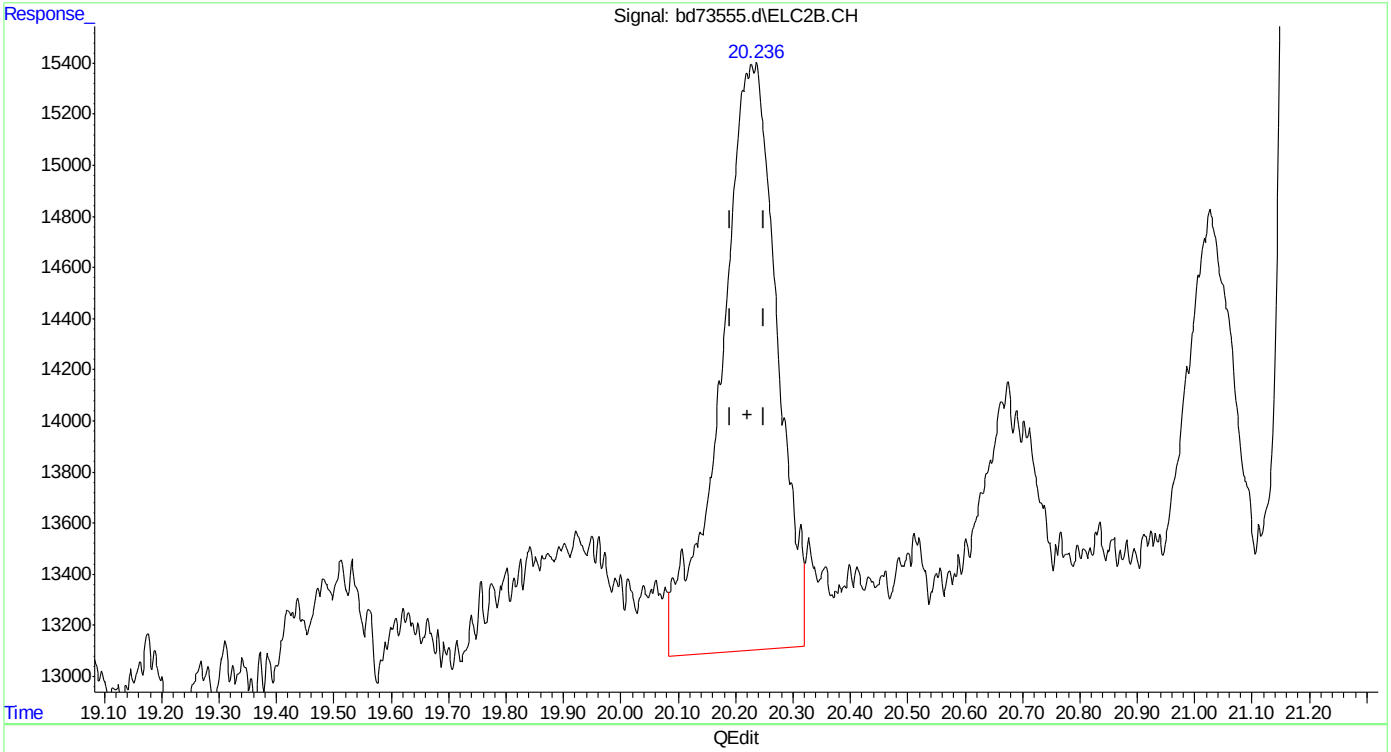
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73555.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:20:56
Operator : danielf
Sample : mc45897-1,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:23:55 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
20.236min 0.345 ppb
response 156157

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:46:34 2016

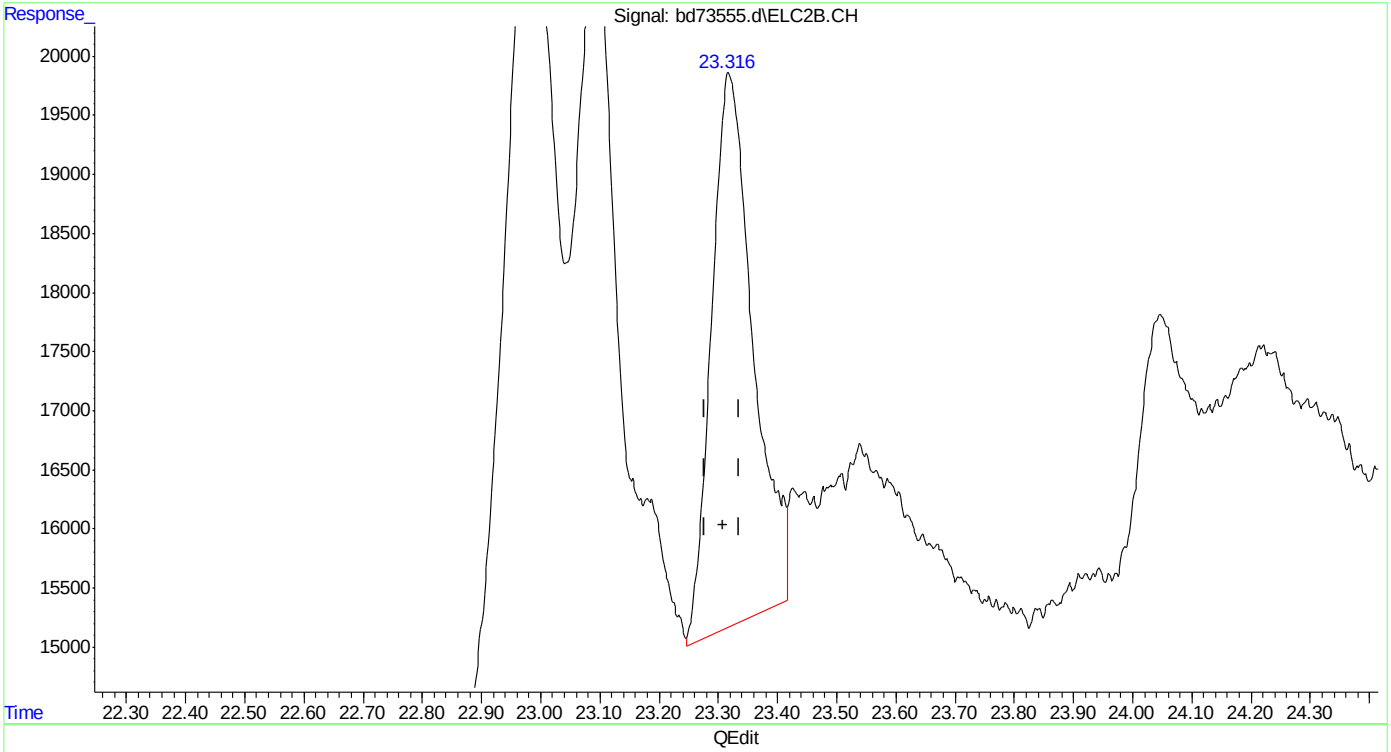
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73555.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:20:56
Operator : danielf
Sample : mc45897-1,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:23:55 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
23.318min 0.457 ppb
response 227896

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:46:41 2016

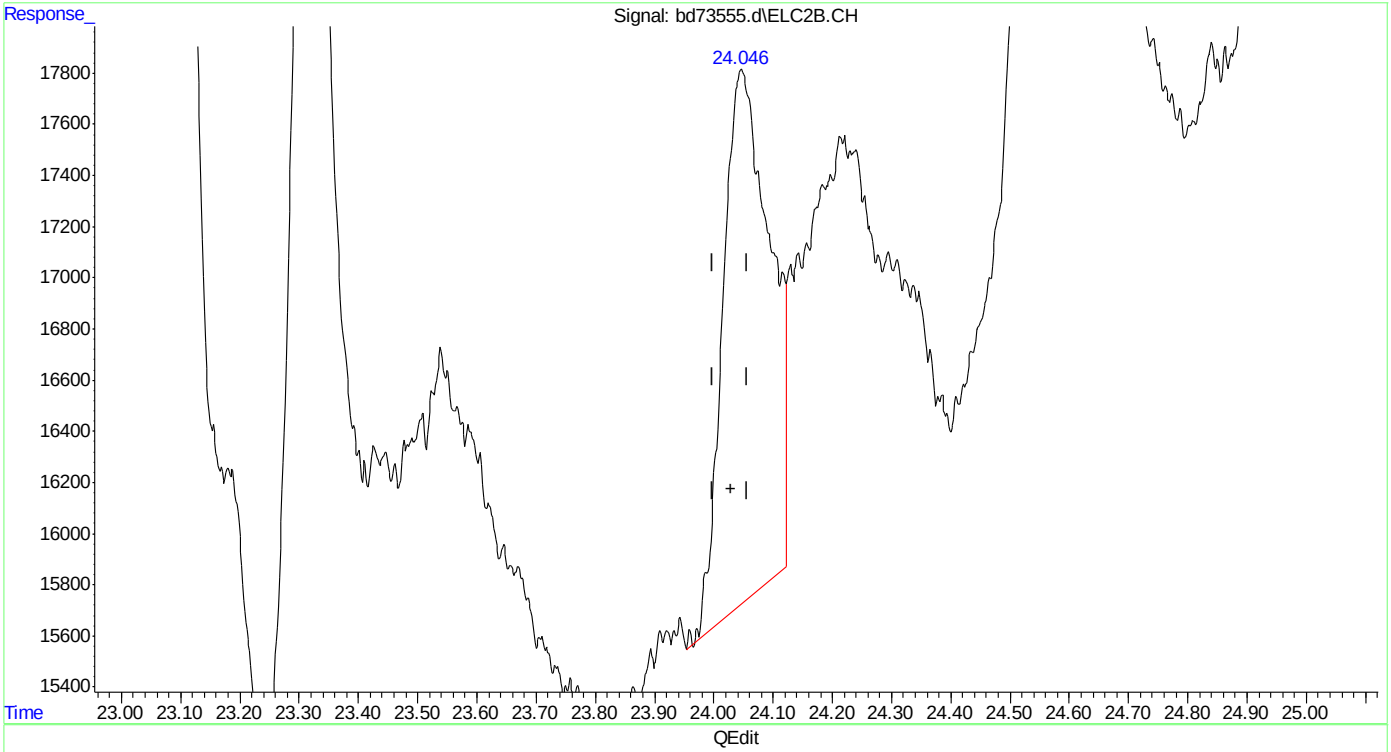
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73555.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:20:56
Operator : danielf
Sample : mc45897-1,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:23:55 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
24.047min 0.263 ppb
response 114157

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:46:49 2016

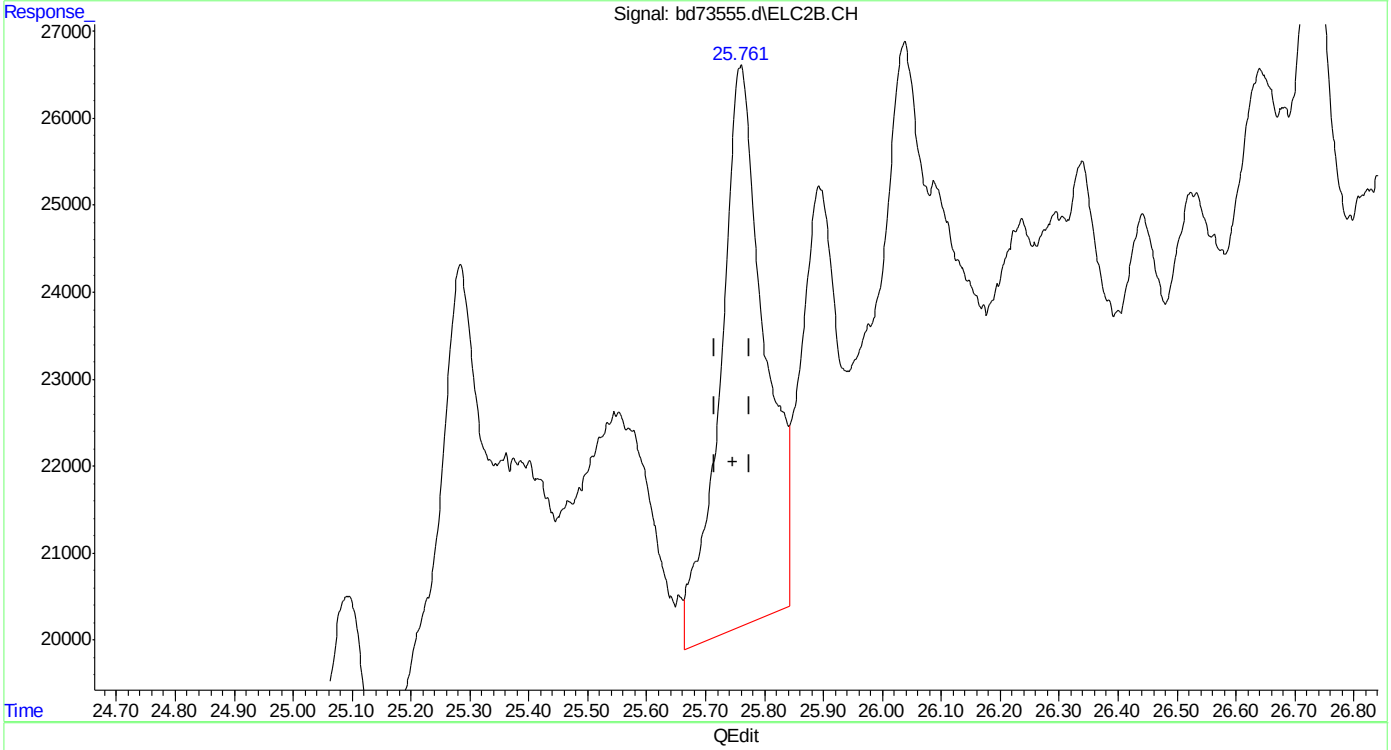
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73555.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:20:56
Operator : danielf
Sample : mc45897-1,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:23:55 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.760min 0.677 ppb
response 332961

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:46:55 2016

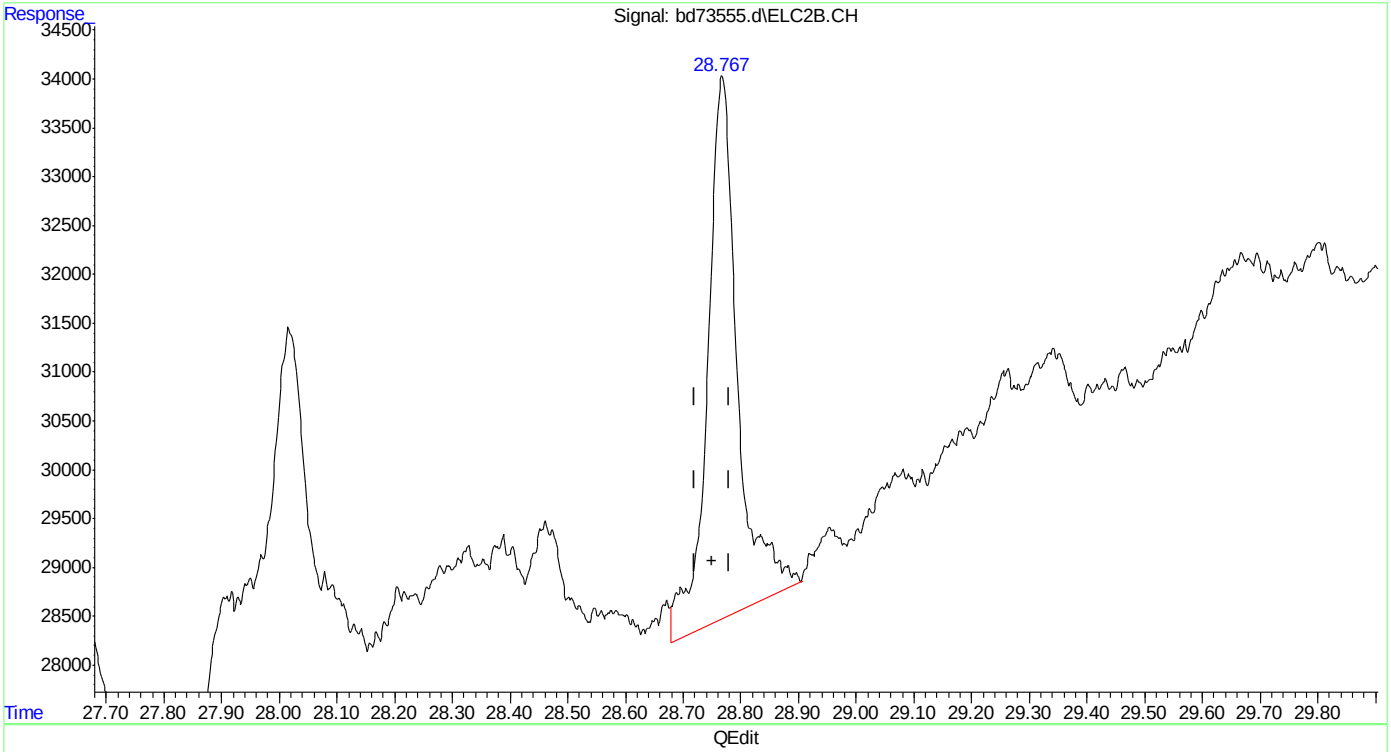
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73555.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:20:56
Operator : danielf
Sample : mc45897-1,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:23:55 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.768min 1.113 ppb
response 202040

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:46:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73555.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:20:56
Operator : danielf
Sample : mc45897-1,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:23:55 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(24) naphthalene #2
28.767min 1.011 ppb m
response 164740

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:47:06 2016

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73556.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:58:46
Operator : danielf
Sample : mc45897-2,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:48:18 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s fluorobenzene	16.427	33422360	49.121 ppb
Spiked Amount 50.000		Recovery	= 98.24%
6) s 2,3,4-trifluorotoluene	21.245	26950133	51.727 ppb
Spiked Amount 50.000		Recovery	= 103.45%
16) s fluorobenzene #2	16.427	13933632	41.071 ppb
Spiked Amount 50.000		Recovery	= 82.14%
18) s 2,3,4-trifluorotoluen...	21.244	8410292	42.723 ppb
Spiked Amount 50.000		Recovery	= 85.45%
Target Compounds			
1) h rt5.5-7	7.470	1140867	1.850 ppb m
2) h rt7/10	9.920	1398481	2.268 ppb m
3) h rt10/13	15.200	1669281	2.707 ppb m
8) h rt20/25	22.840	11684816	14.602 ppb
24) naphthalene #2	28.771f	69260	0.749 ppb m
25) h c9-c10 arom as 1,2,4-tmb	25.777	9503442	19.330 ppb m

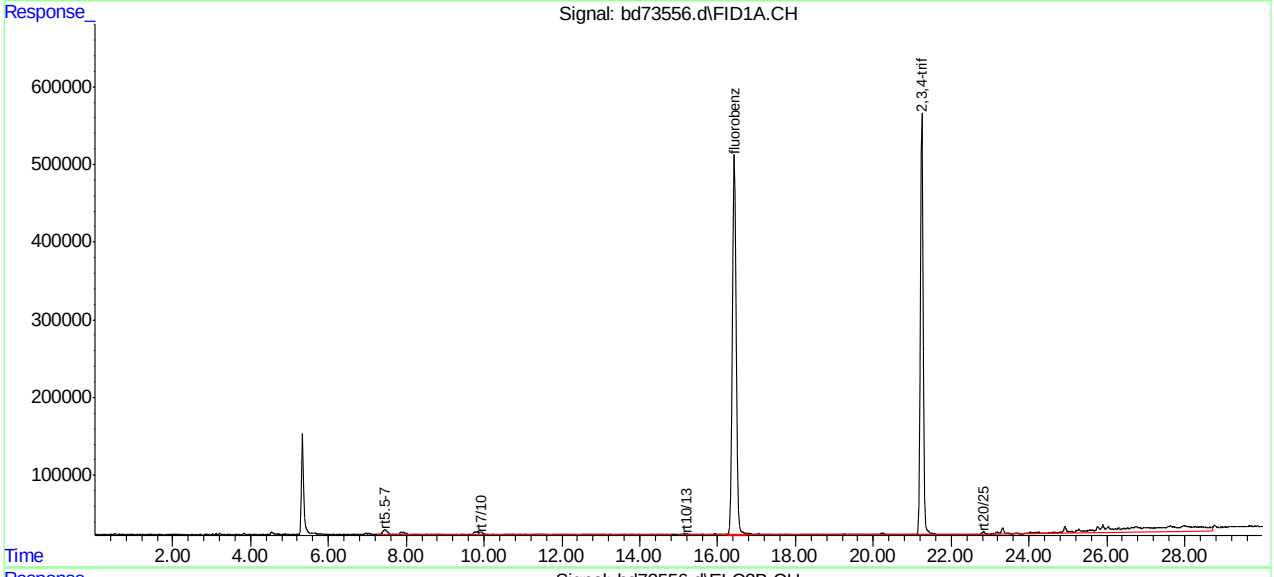
(f)=RT Delta > 1/2 Window (m)=manual int.

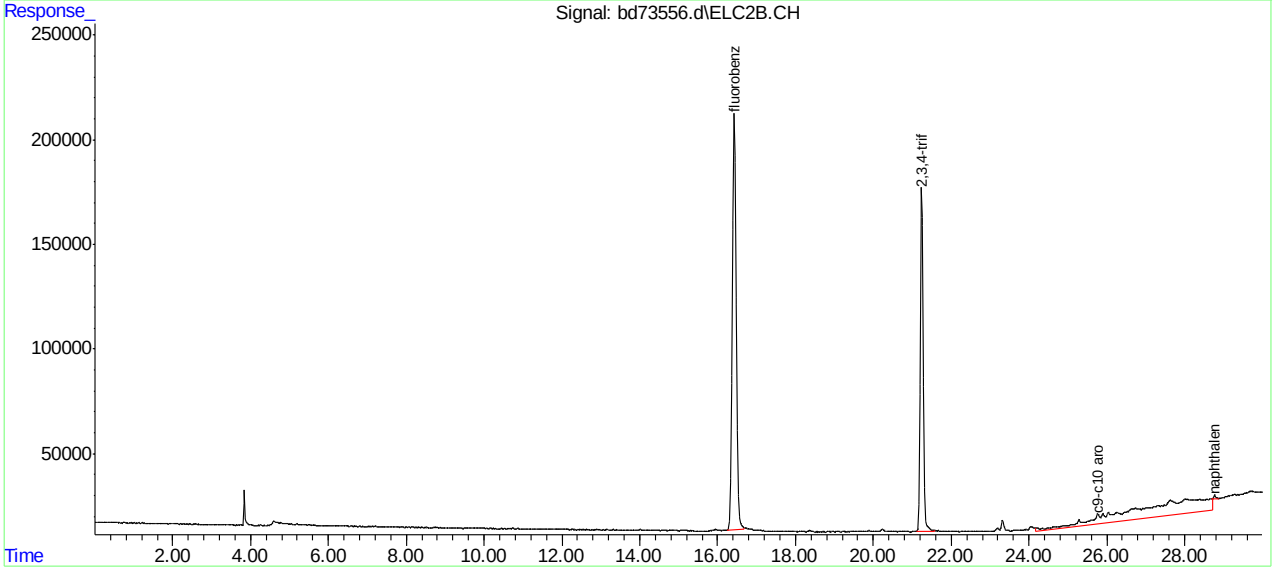
Quantitation Report (QT Reviewed)

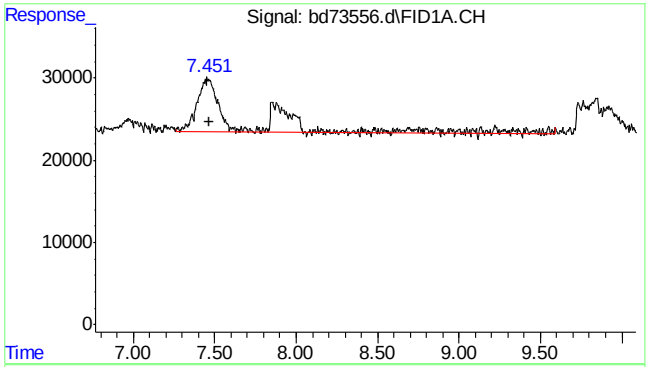
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73556.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:58:46
Operator : danielf
Sample : mc45897-2,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:48:18 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

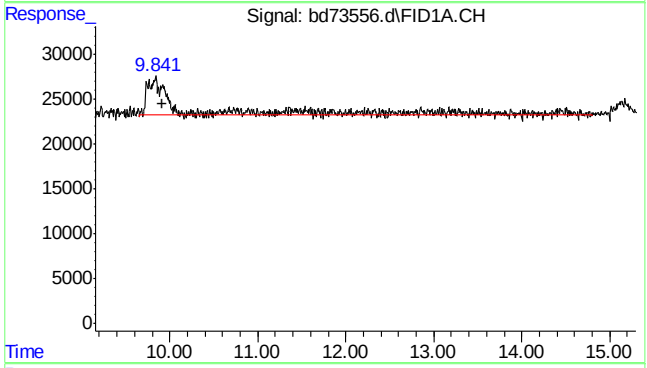






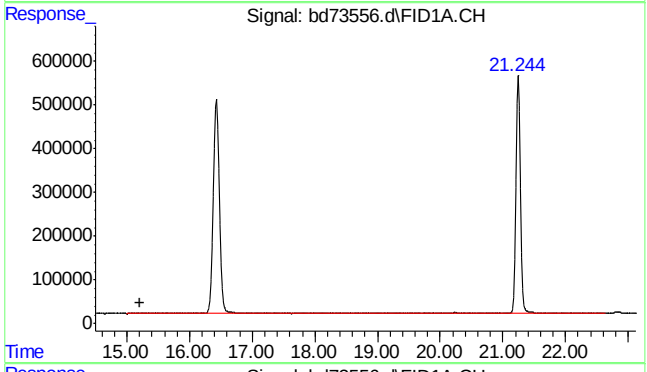
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 1140867
Conc: 1.85 ppb m



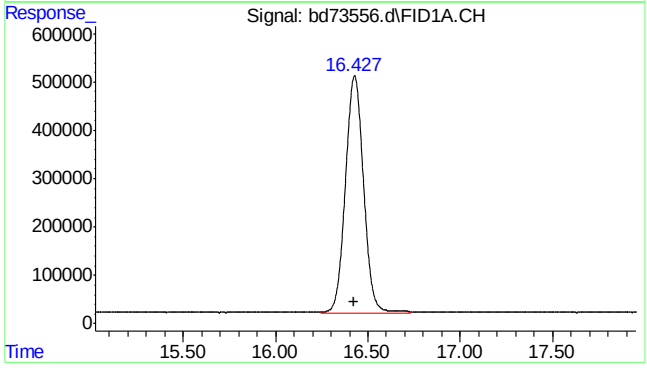
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 1398481
Conc: 2.27 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1669281
Conc: 2.71 ppb m



#4 fluorobenzene

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 33422360
Conc: 49.12 ppb

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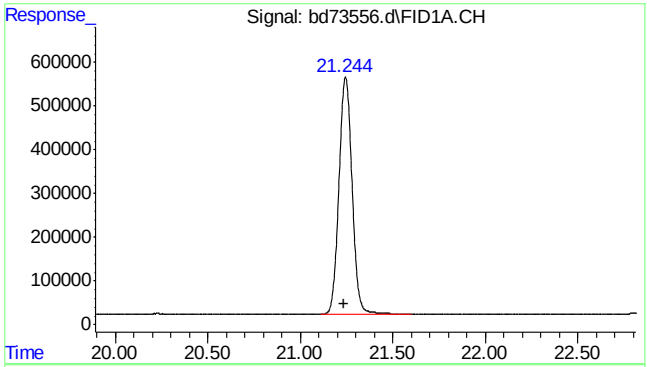
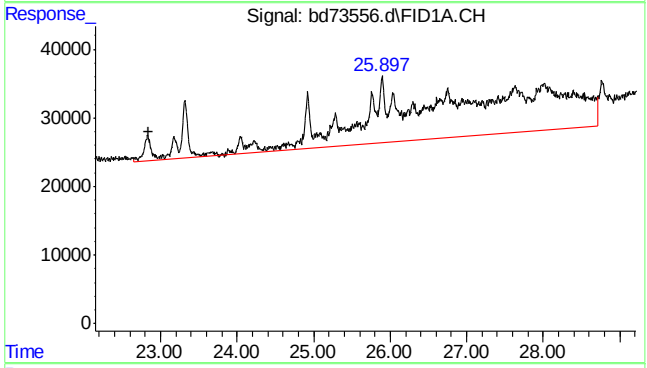


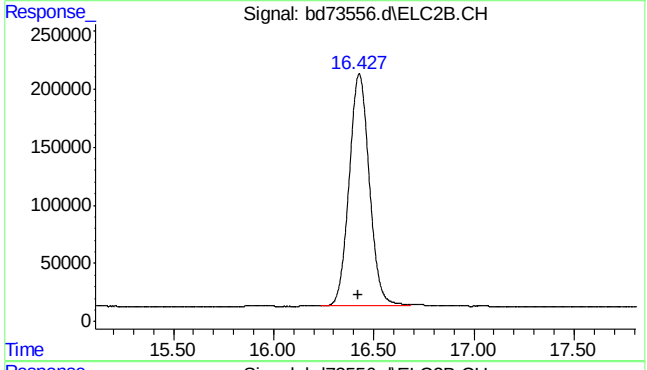
#6 2,3,4-trifluorotoluene

R.T.: 21.245 min
Delta R.T.: 0.008 min
Response: 26950133
Conc: 51.73 ppb



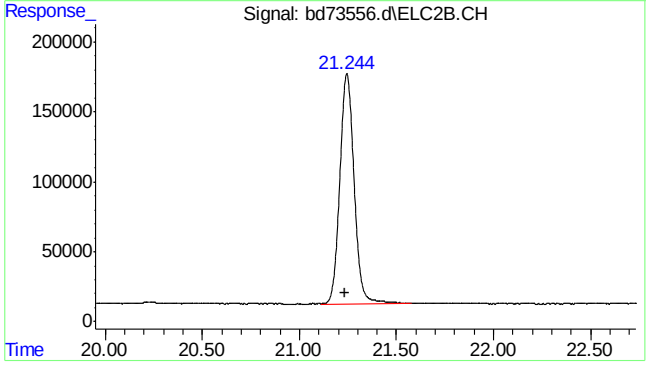
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 11684816
Conc: 14.60 ppb



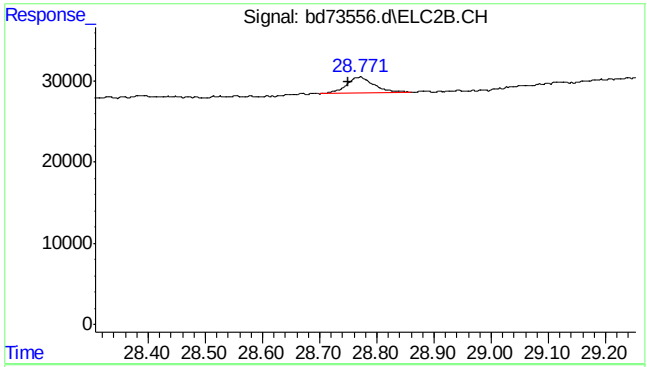
#16 fluorobenzene #2

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 13933632
Conc: 41.07 ppb



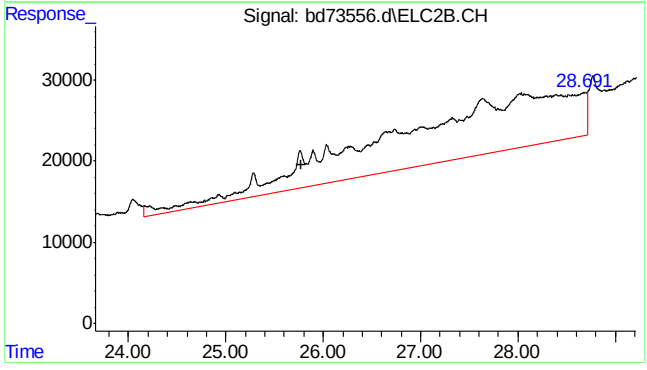
#18 2,3,4-trifluorotoluene #2

R.T.: 21.244 min
Delta R.T.: 0.007 min
Response: 8410292
Conc: 42.72 ppb



#24 naphthalene #2

R.T.: 28.771 min
Delta R.T.: 0.021 min
Response: 69260
Conc: 0.75 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 9503442
Conc: 19.33 ppb m

7.1.2

7

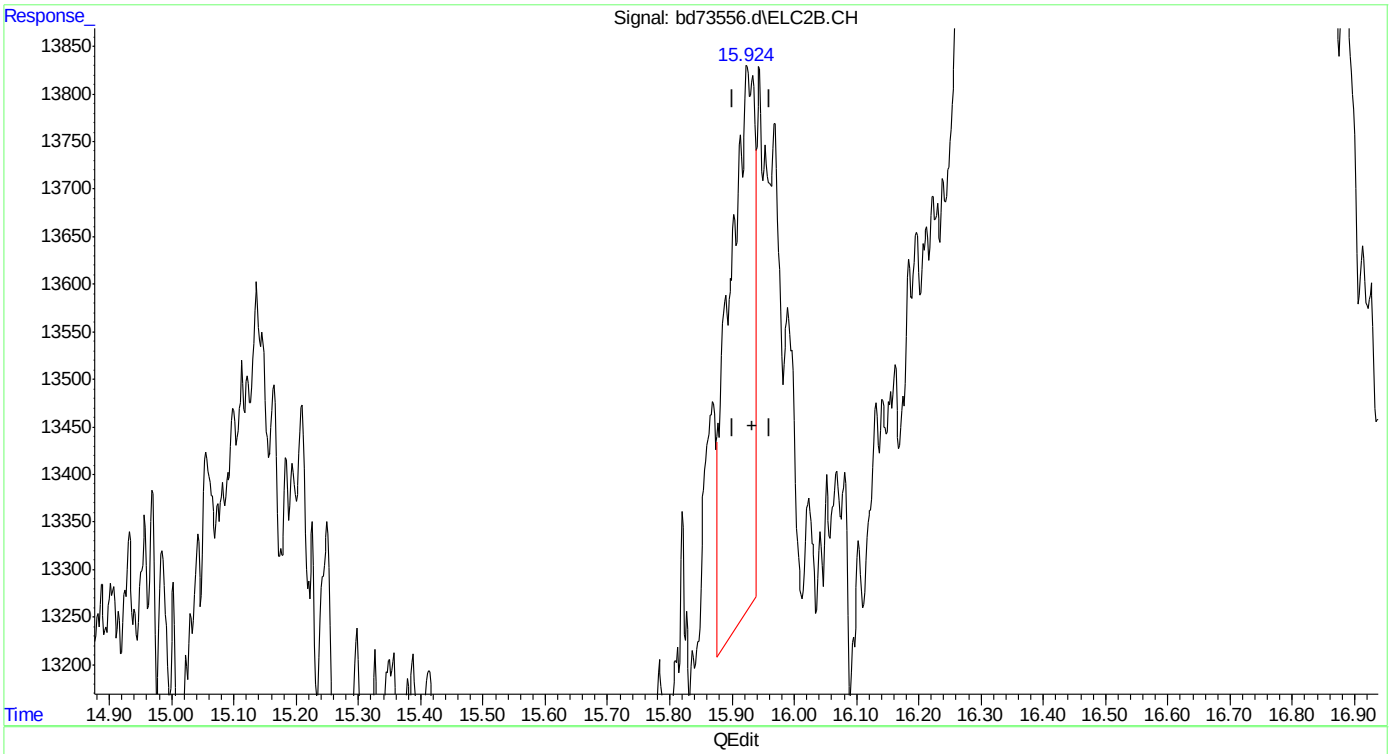
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73556.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:58:46
Operator : danielf
Sample : mc45897-2,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:56:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
15.925min 0.034 ppb
response 16301

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:47:41 2016

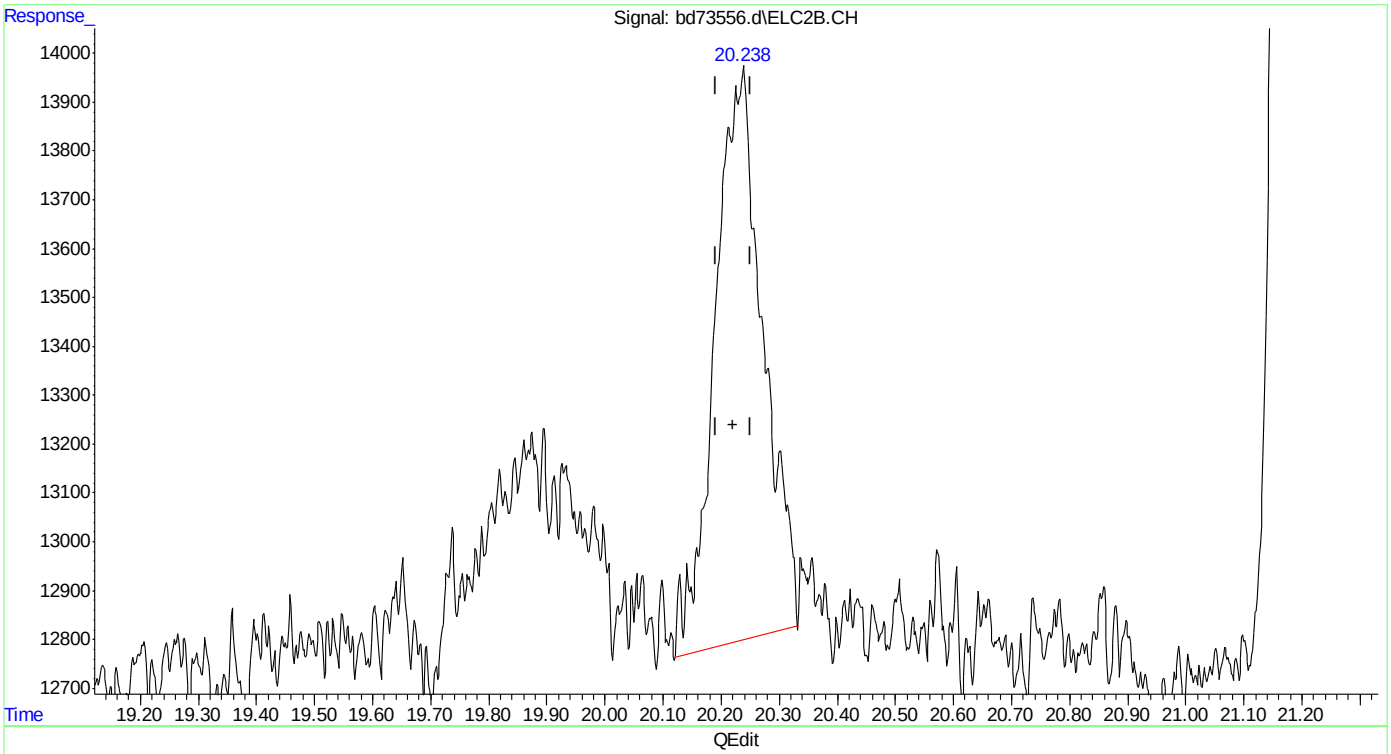
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73556.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:58:46
Operator : danielf
Sample : mc45897-2,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:56:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
20.239min 0.150 ppb
response 67730

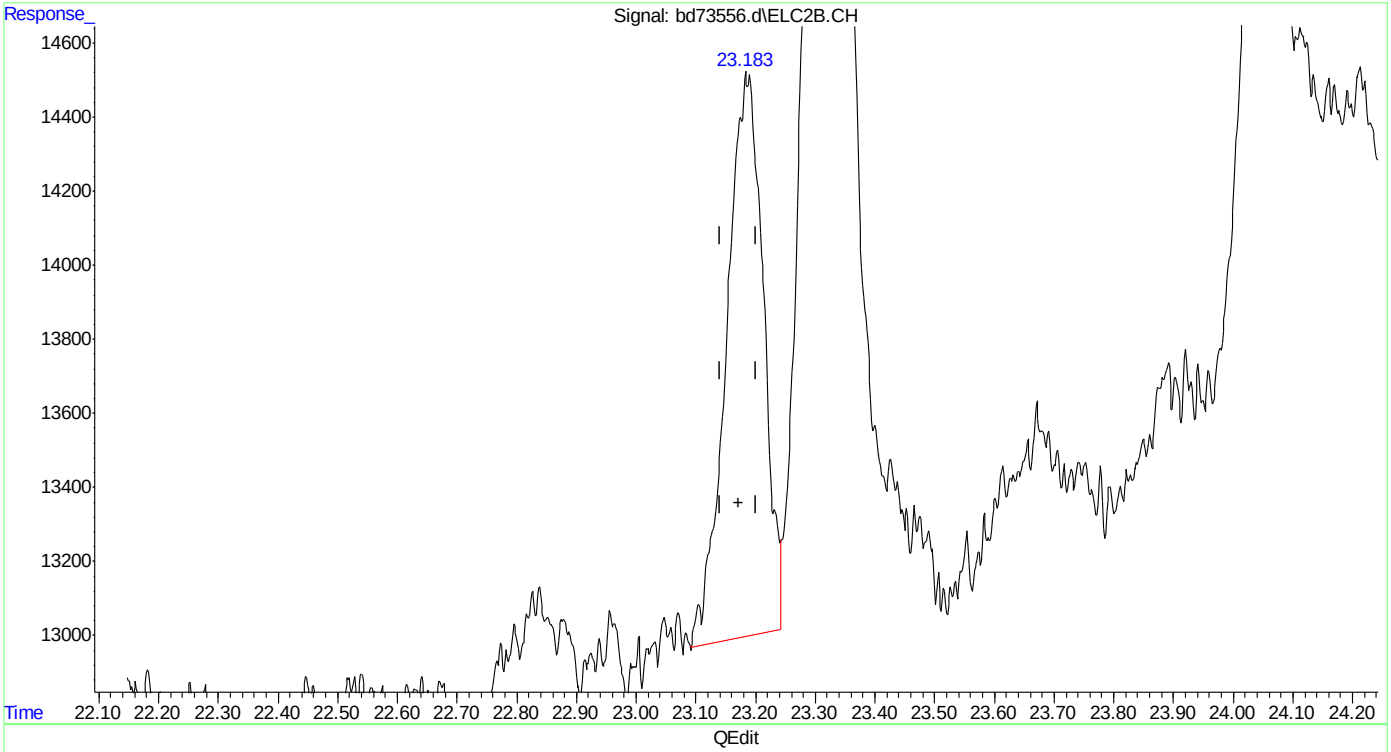
(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:47:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73556.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:58:46
Operator : danielf
Sample : mc45897-2,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:56:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) ethylbenzene #2
23.185min 0.157 ppb
response 65225

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:47:49 2016

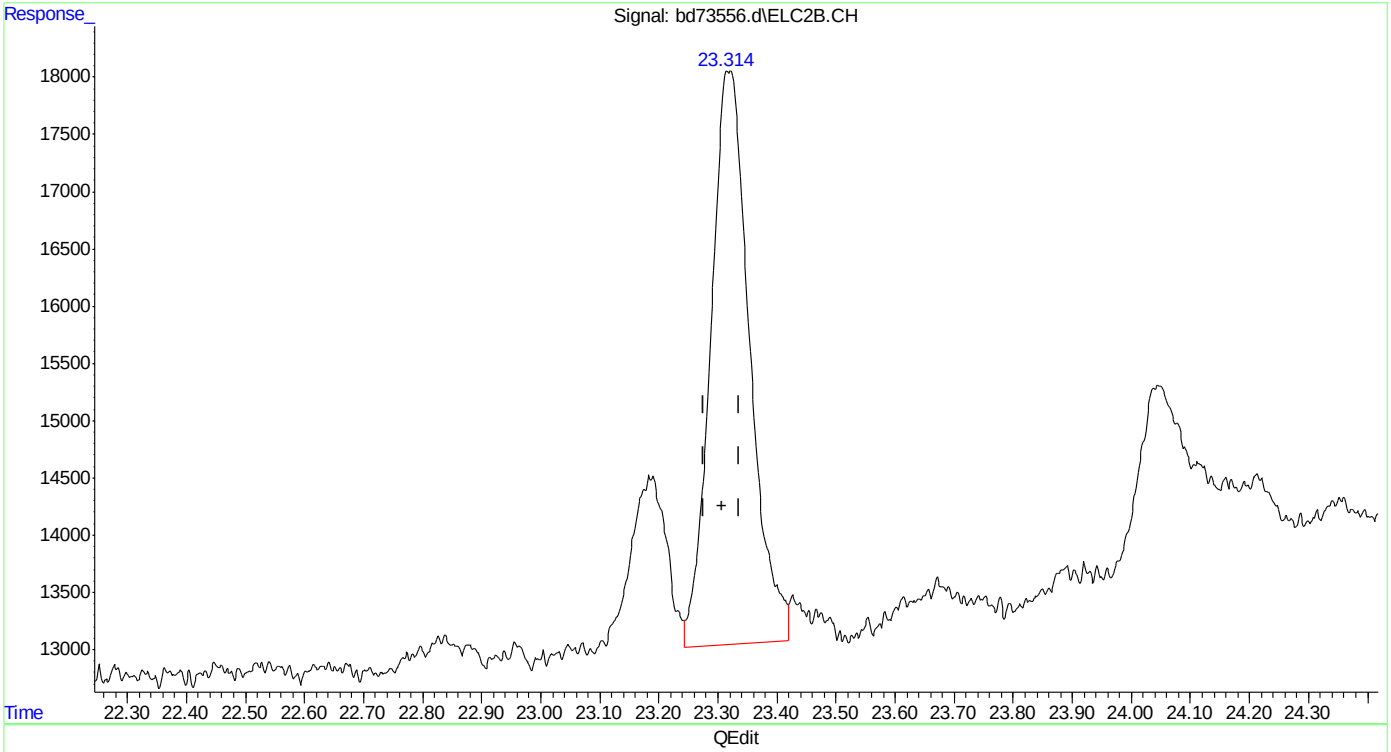
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73556.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:58:46
Operator : danielf
Sample : mc45897-2,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:56:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
23.318min 0.462 ppb
response 230229

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:47:54 2016

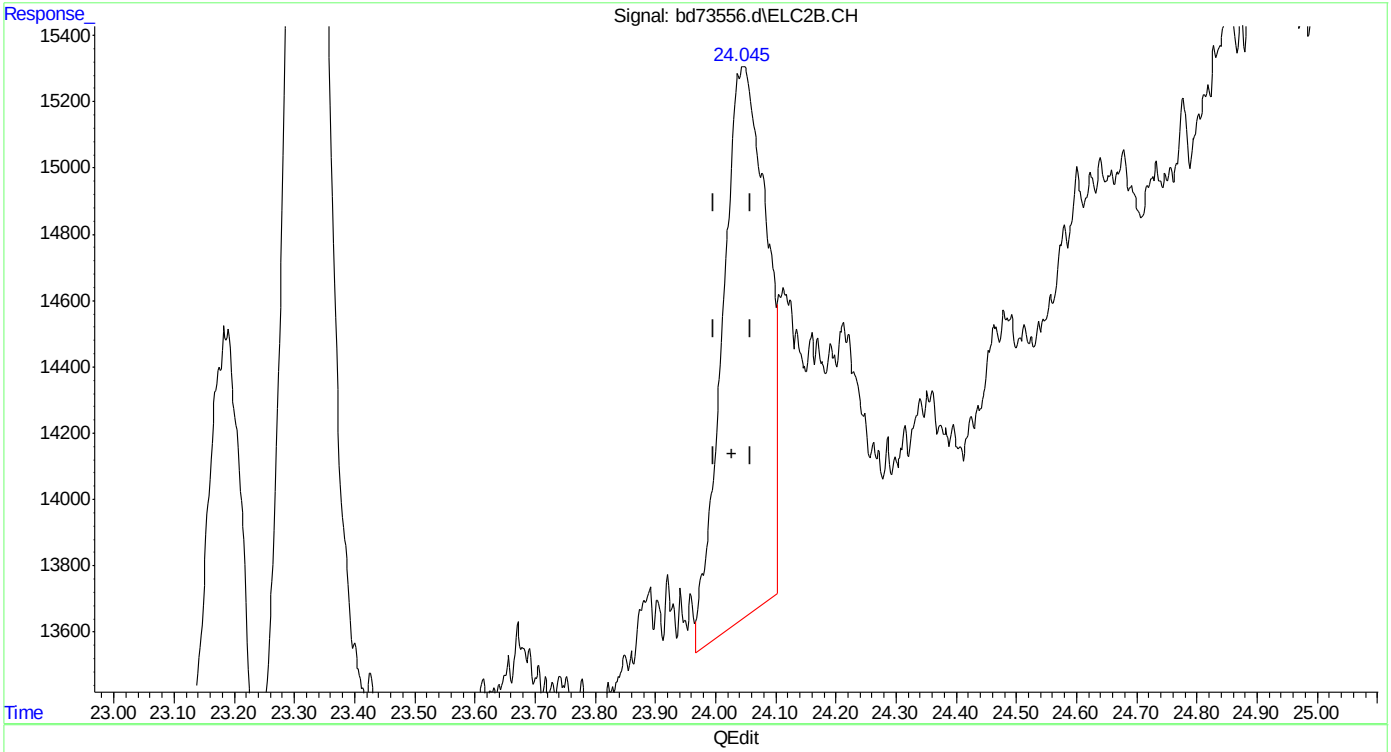
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73556.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:58:46
Operator : danielf
Sample : mc45897-2,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:56:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
24.047min 0.194 ppb
response 84161

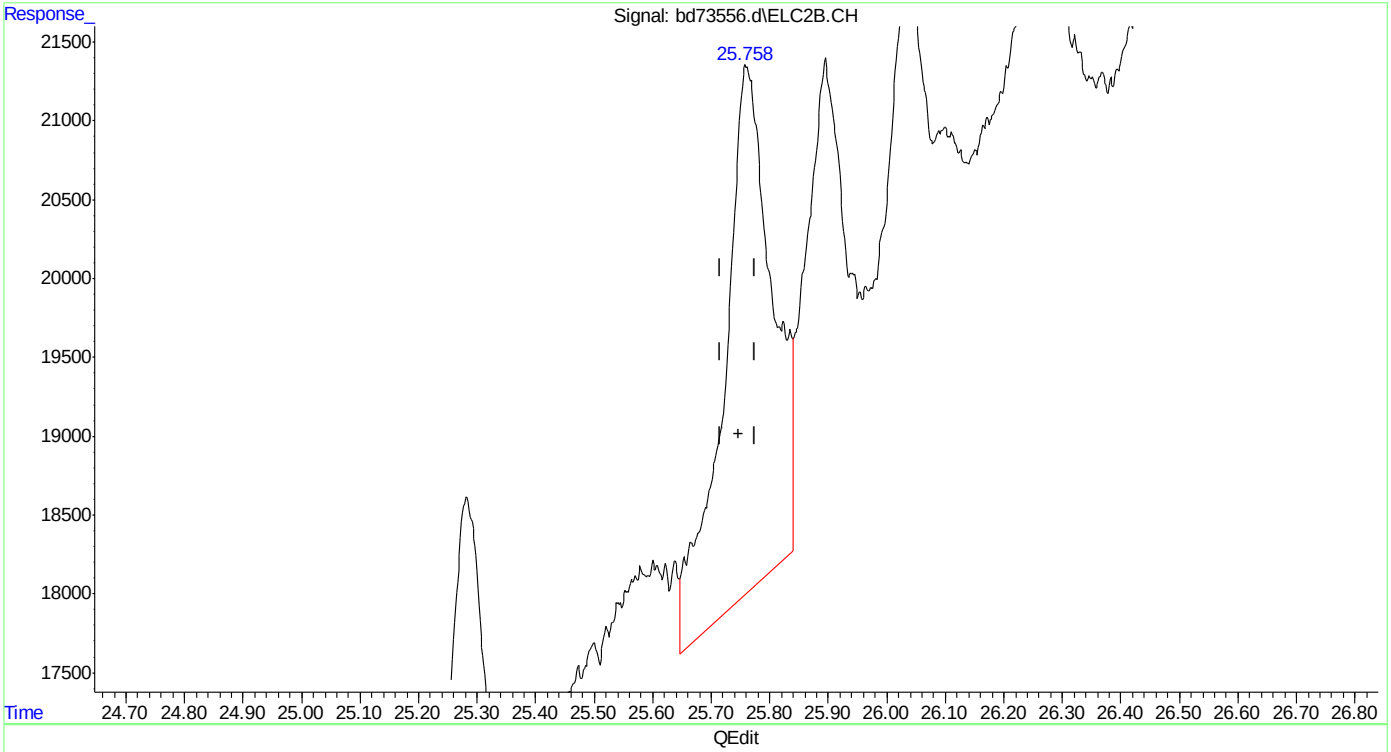
(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:47:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73556.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:58:46
Operator : danielf
Sample : mc45897-2,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:56:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.760min 0.392 ppb
response 192877

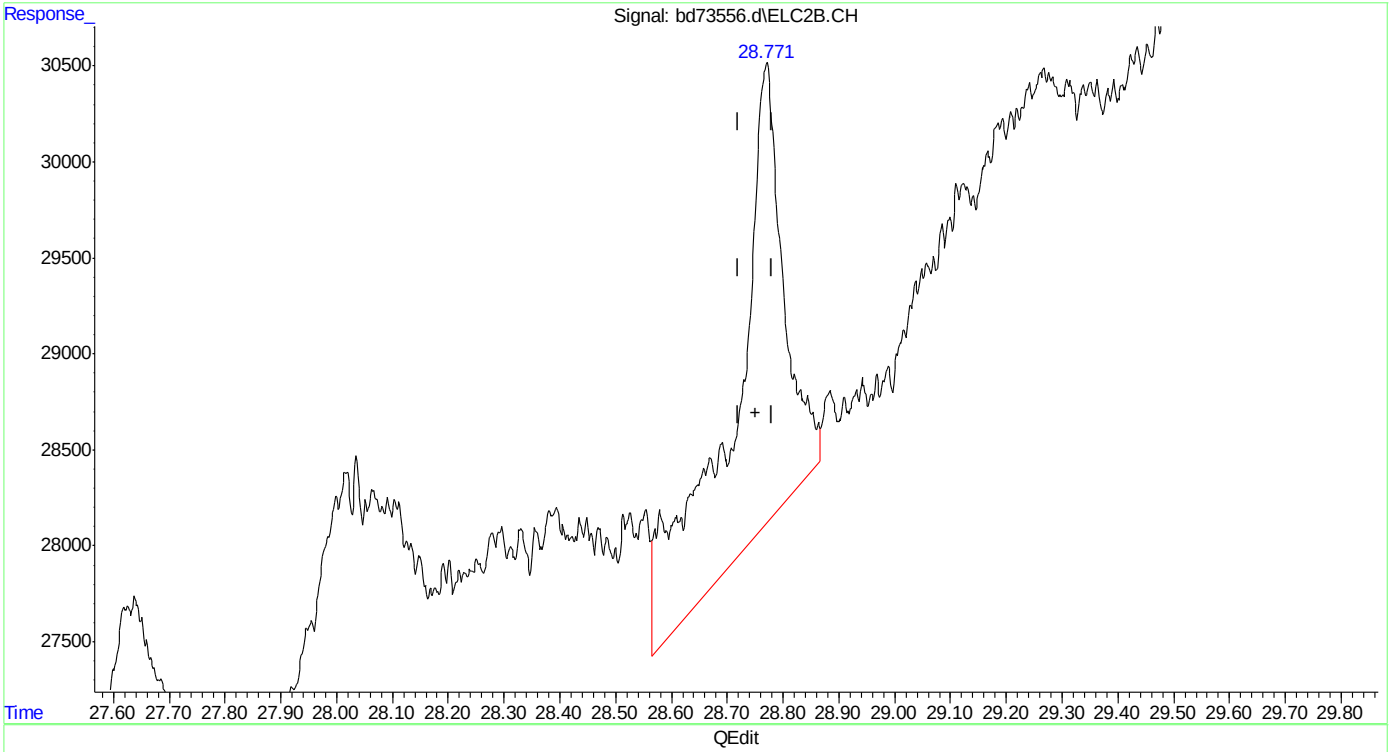
(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:48:03 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73556.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:58:46
Operator : danielf
Sample : mc45897-2,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:56:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.770min 0.979 ppb
response 153064

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:48:08 2016

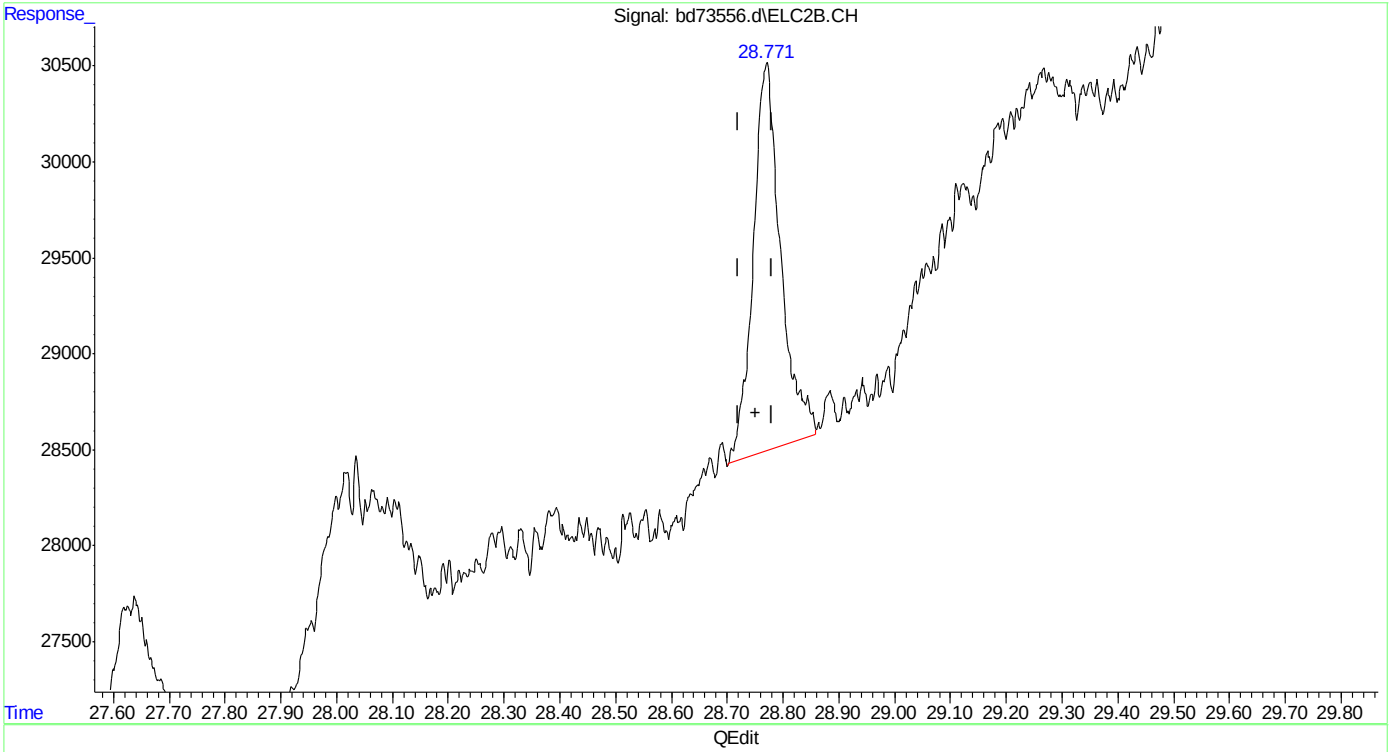
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73556.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 16:58:46
Operator : danielf
Sample : mc45897-2,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 17:56:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.771min 0.749 ppb m
response 69260

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:48:14 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73577b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 12:22:10
Operator : tonyf
Sample : mc45897-3,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 12:59:07 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.426	33464549	49.183	ppb	
Spiked Amount 50.000		Recovery = 98.37%			
6) s 2,3,4-trifluorotoluene	21.243	26939174	51.706	ppb	
Spiked Amount 50.000		Recovery = 103.41%			
16) s fluorobenzene #2	16.427	13833305	40.776	ppb	
Spiked Amount 50.000		Recovery = 81.55%			
18) s 2,3,4-trifluorotoluen...	21.243	8318960	42.259	ppb	
Spiked Amount 50.000		Recovery = 84.52%			
Target Compounds					
1) h rt5.5-7	7.470	243648	0.395	ppb	m
2) h rt7/10	9.920	875998	1.420	ppb	m
3) h rt10/13	15.200	4146877	6.724	ppb	m
8) h rt20/25	22.840	26362341	32.944	ppb	m
19) ethylbenzene #2	23.178	2152852	5.187	ppb	
20) m,p-xylene #2	23.315	6209222	12.457	ppb	
21) o-xylene #2	24.038	568840	1.308	ppb	
24) naphthalene #2	28.763	47025	0.688	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	11066150	22.508	ppb	

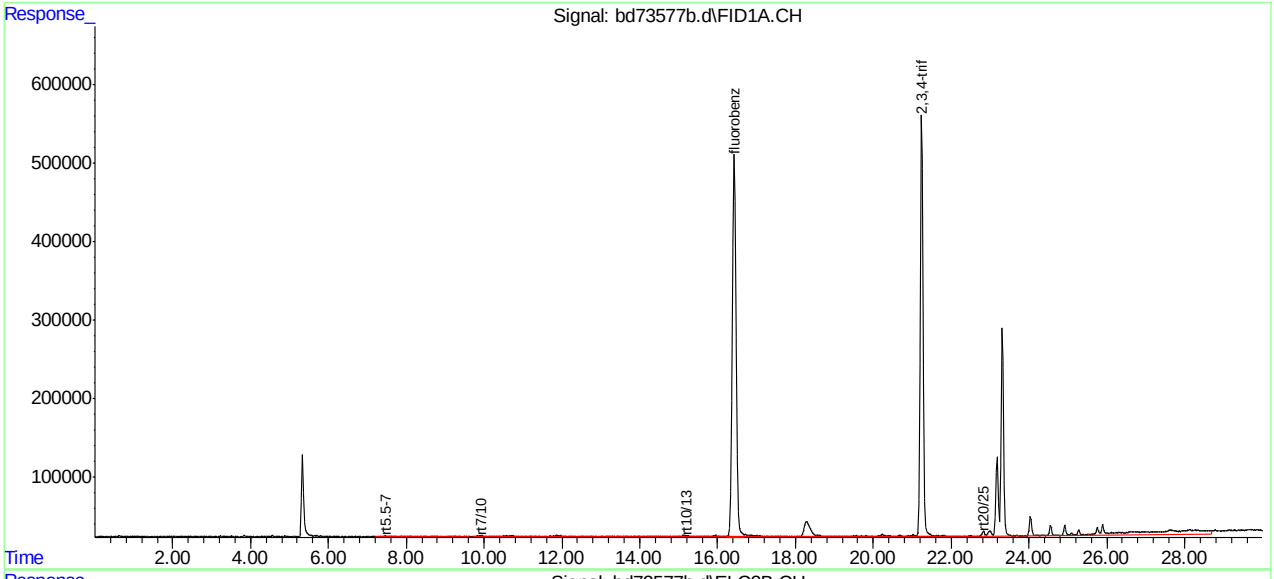
(f)=RT Delta > 1/2 Window (m)=manual int.

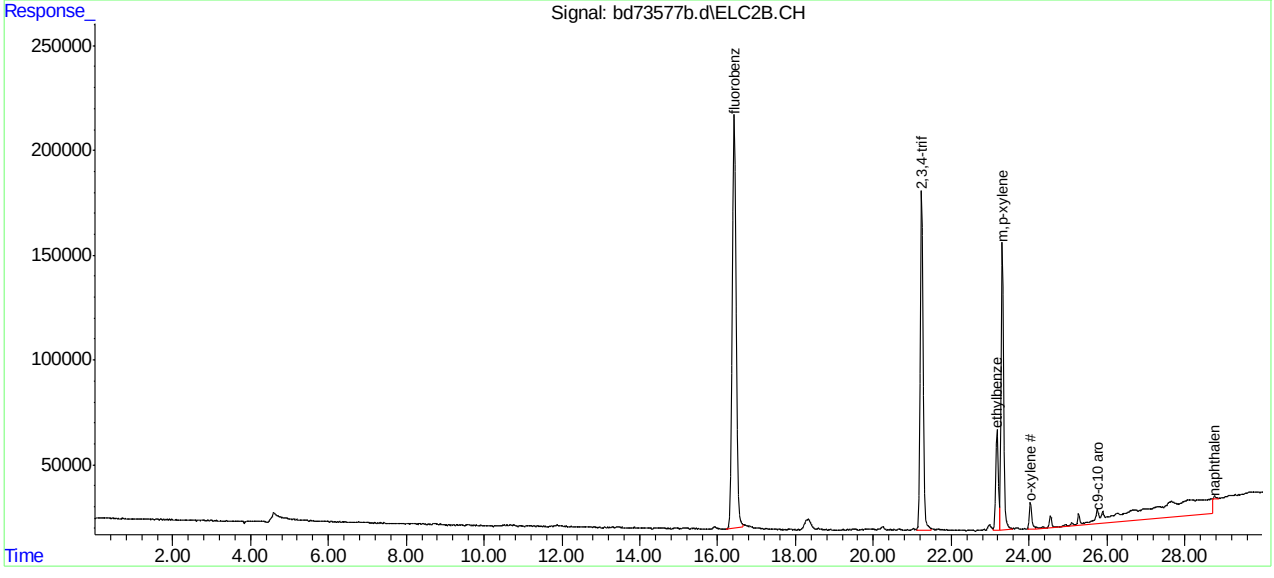
Quantitation Report (QT Reviewed)

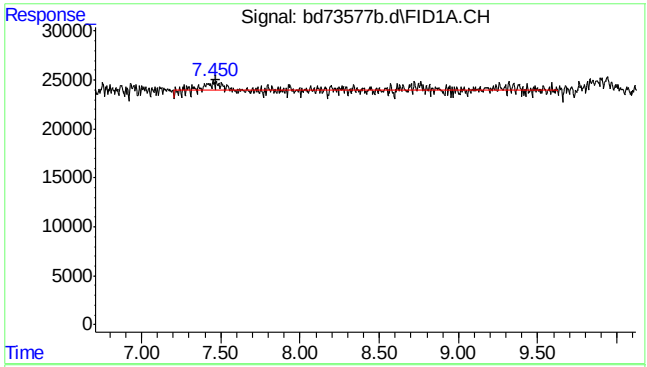
Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73577b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 12:22:10
Operator : tonyf
Sample : mc45897-3,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 12:59:07 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

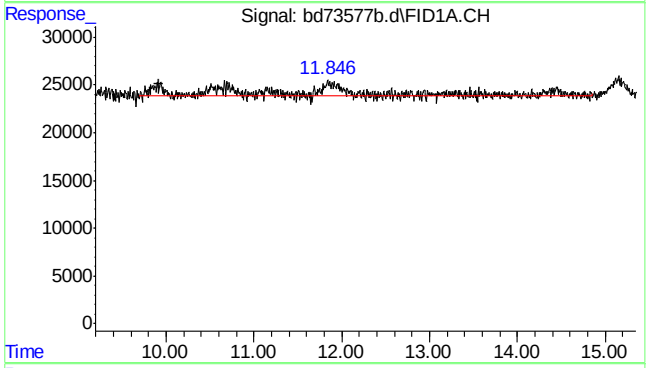






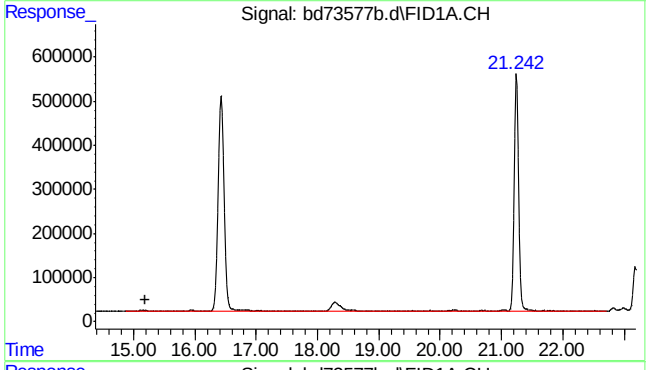
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 243648
Conc: 0.40 ppb m



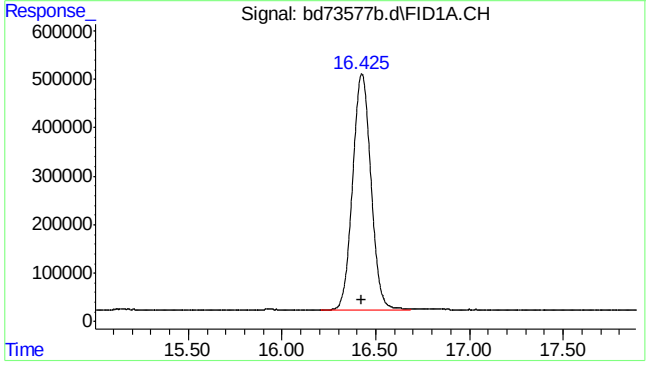
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 875998
Conc: 1.42 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 4146877
Conc: 6.72 ppb m



#4 fluorobenzene

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 33464549
Conc: 49.18 ppb

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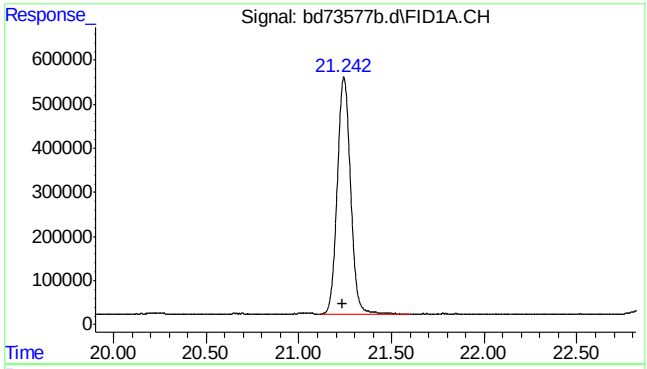
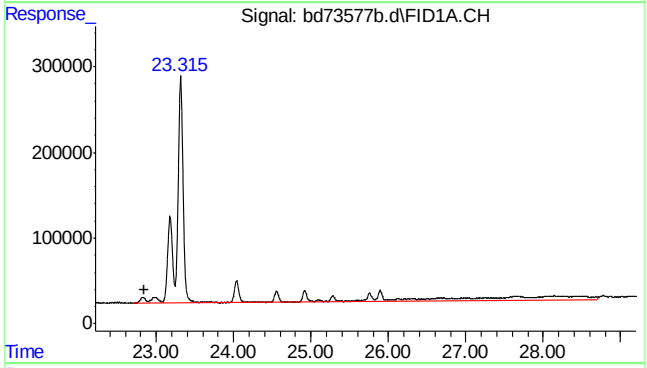


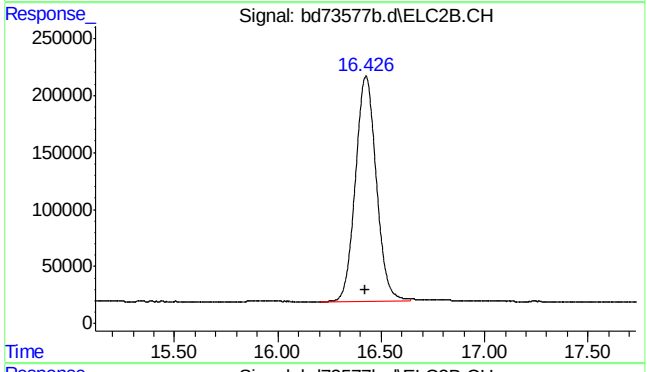
#6 2,3,4-trifluorotoluene

```
      R.T.:   21.243 min
Delta R.T.:    0.006 min
  Response:  26939174
      Conc:  51.71 ppb
```



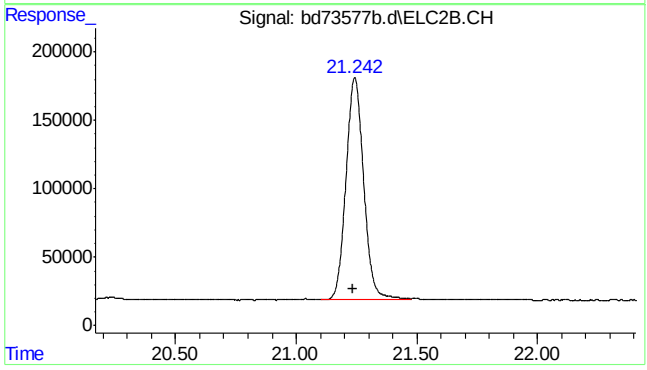
#8 rt20/25

```
      R.T.:   22.840 min
Delta R.T.:    0.000 min
  Response:  26362341
      Conc:  32.94 ppb m
```



#16 fluorobenzene #2

```
      R.T.:   16.427 min
Delta R.T.:    0.003 min
  Response:  13833305
      Conc:  40.78 ppb
```



#18 2,3,4-trifluorotoluene #2

```
      R.T.:   21.243 min
Delta R.T.:    0.006 min
  Response:   8318960
      Conc:  42.26 ppb
```

7.1.3

7

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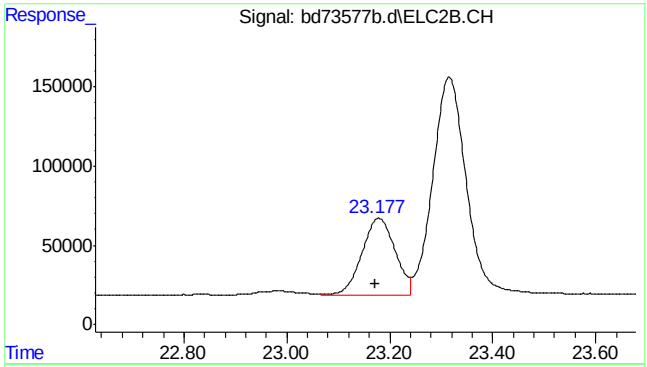
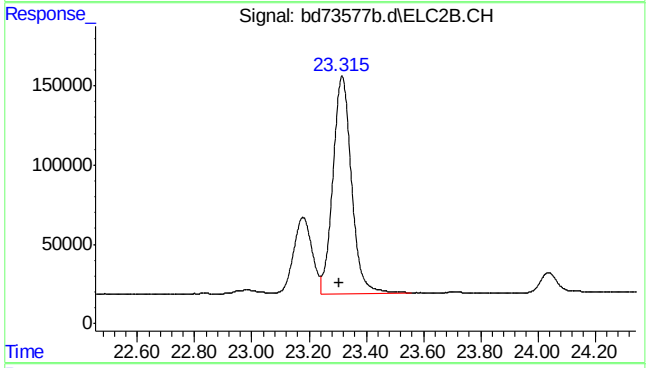


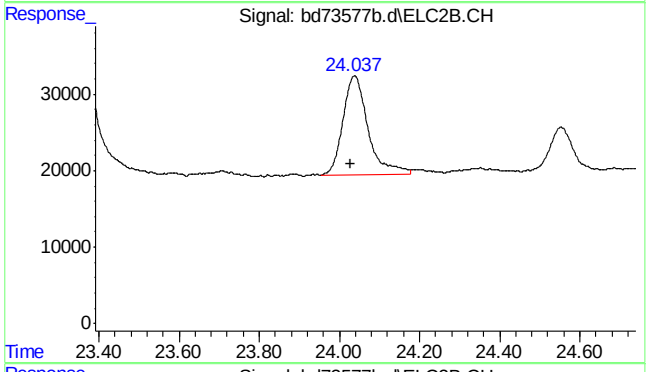
#19 ethylbenzene #2

R.T.: 23.178 min
Delta R.T.: 0.006 min
Response: 2152852
Conc: 5.19 ppb



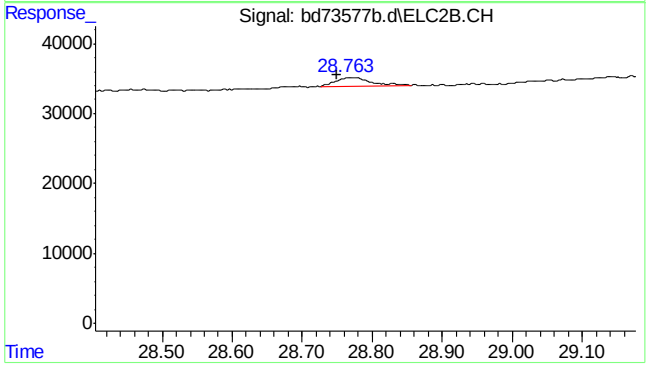
#20 m,p-xylene #2

R.T.: 23.315 min
Delta R.T.: 0.008 min
Response: 6209222
Conc: 12.46 ppb



#21 o-xylene #2

R.T.: 24.038 min
Delta R.T.: 0.010 min
Response: 568840
Conc: 1.31 ppb



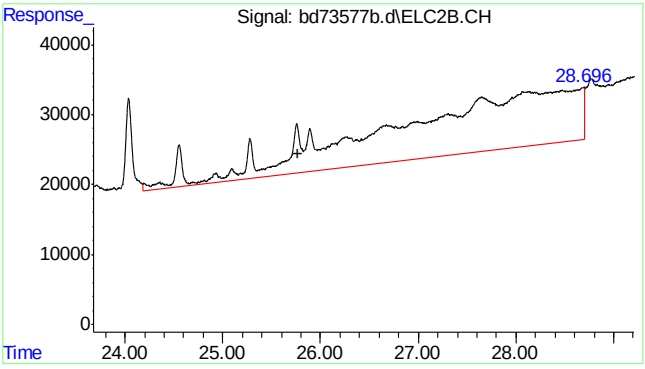
#24 naphthalene #2

R.T.: 28.763 min
Delta R.T.: 0.013 min
Response: 47025
Conc: 0.69 ppb m

7.1.3

7

SGS ACCUTEST MC45897



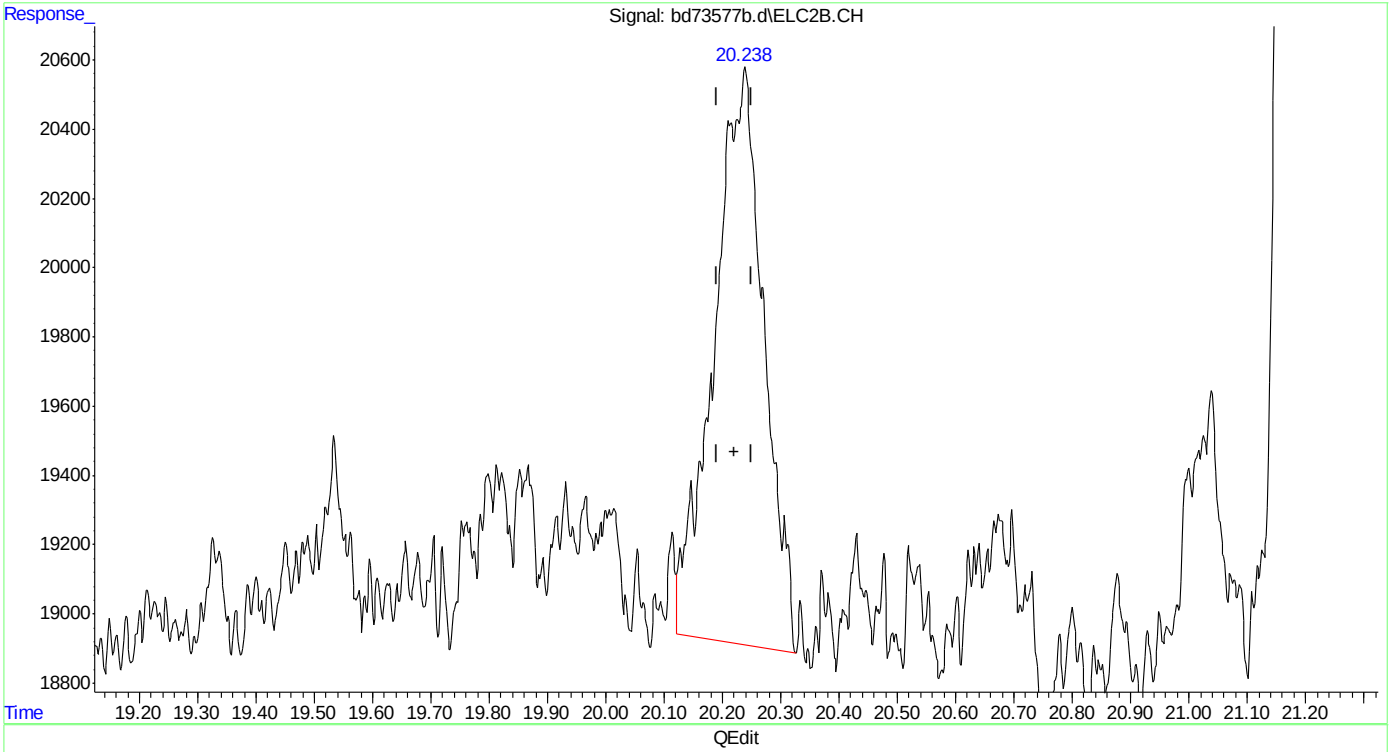

```
#25  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response:  11066150
      Conc:  22.51 ppb
```

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73577b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 12:22:10
Operator : tonyf
Sample : mc45897-3,w,vmavph,00
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 12:57:00 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
20.239min 0.219 ppb
response 99266

(+) = Expected Retention Time
bd160516vph.M Mon May 16 12:57:46 2016

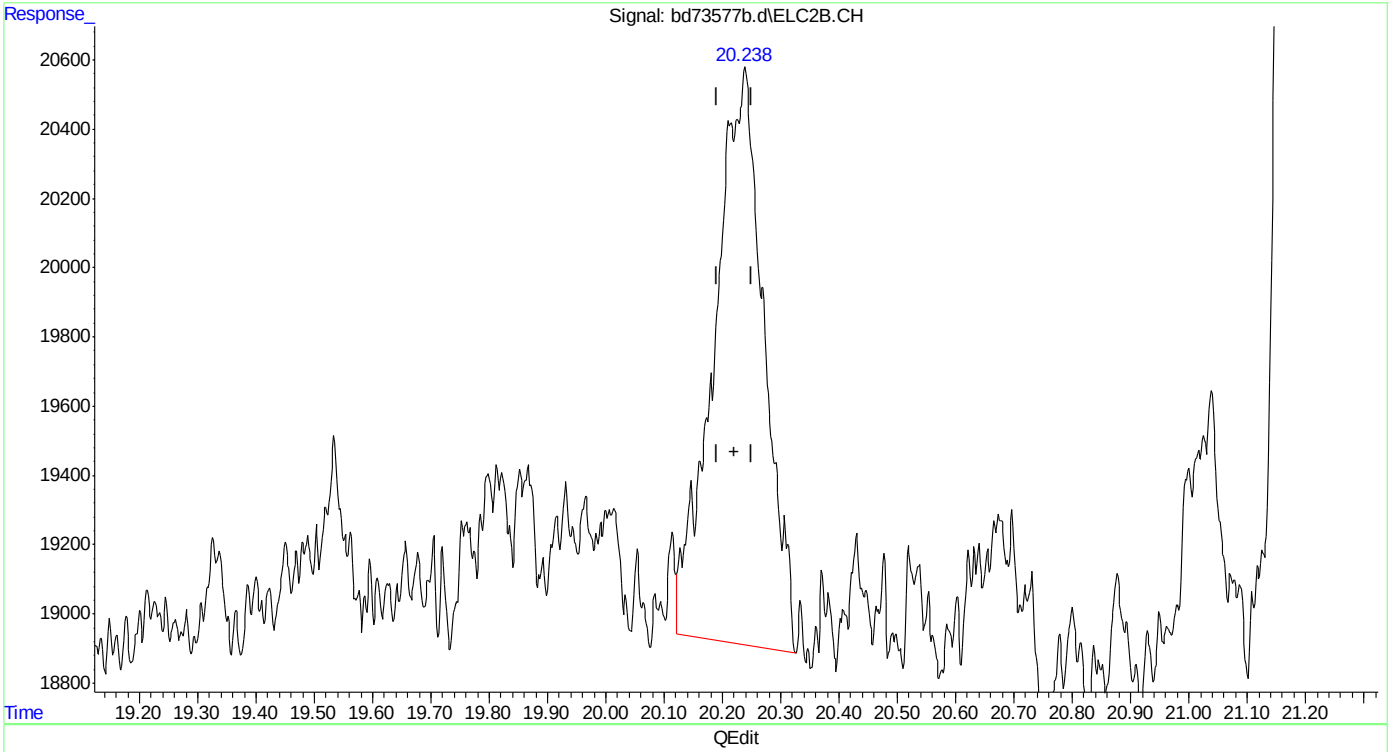
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73577b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 12:22:10
Operator : tonyf
Sample : mc45897-3,w,vmavph,00
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 12:57:00 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
20.239min 0.219 ppb
response 99266

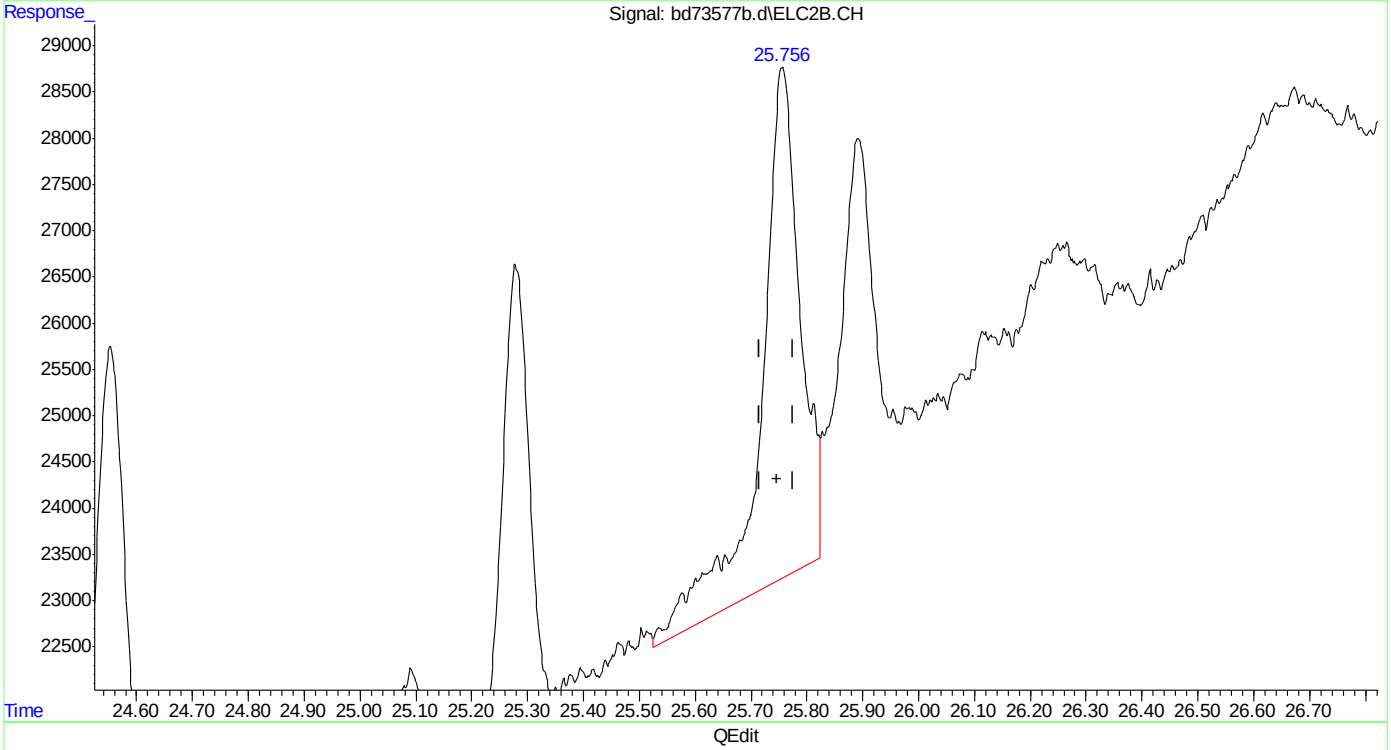
(+) = Expected Retention Time
bd160516vph.M Mon May 16 12:58:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73577b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 12:22:10
Operator : tonyf
Sample : mc45897-3,w,vmavph,00
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 12:57:00 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.756min 0.551 ppb
response 271127

(+) = Expected Retention Time
bd160516vph.M Mon May 16 12:58:51 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73577b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 12:22:10
Operator : tonyf
Sample : mc45897-3,w,vmavph,00
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 12:57:00 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(24) naphthalene #2
28.770min 0.888 ppb
response 120089

(+) = Expected Retention Time
bd160516vph.M Mon May 16 12:59:00 2016

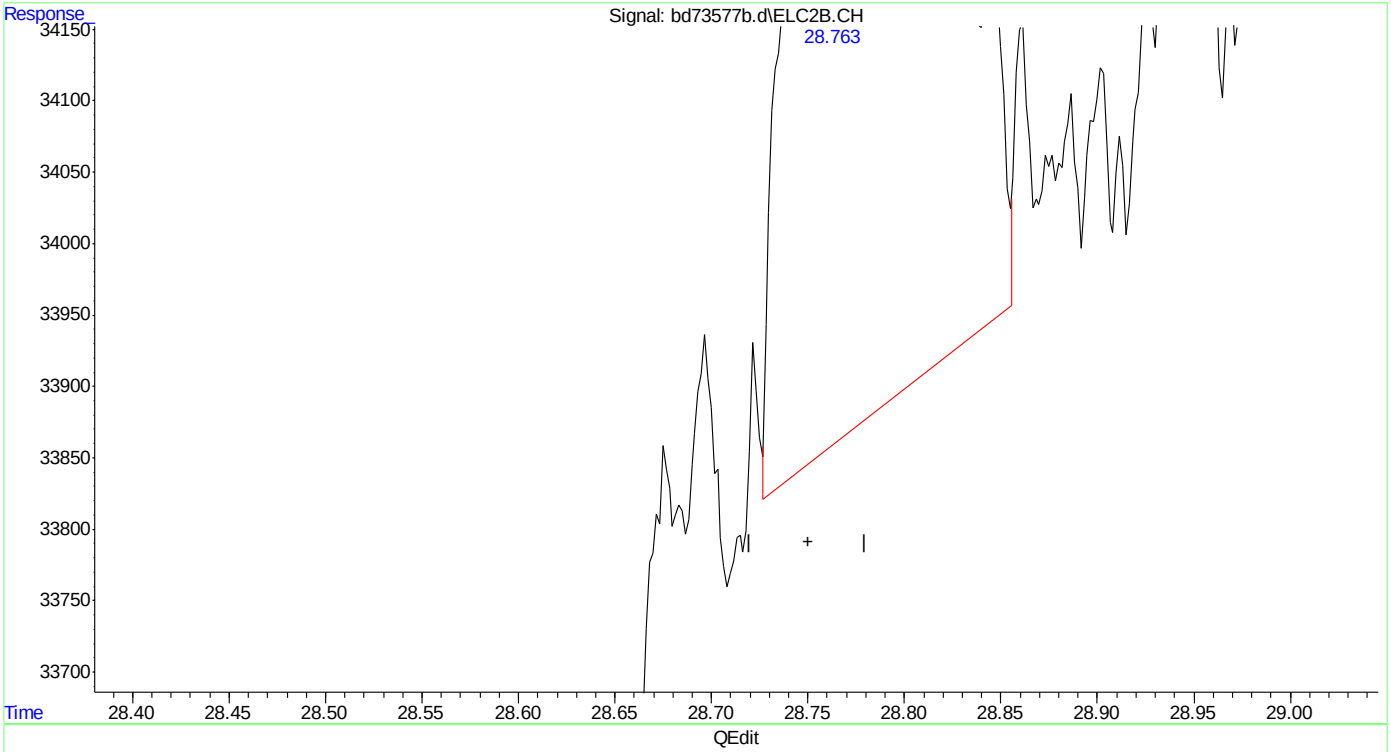
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73577b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 12:22:10
Operator : tonyf
Sample : mc45897-3,w,vmavph,00
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 12:57:00 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.763min 0.688 ppb m
response 47025

(+) = Expected Retention Time
bd160516vph.M Mon May 16 12:59:11 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73557.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 17:36:32
Operator : danielf
Sample : mc45897-4,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:49:34 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.427	33704218	49.536	ppb	
Spiked Amount 50.000		Recovery =	99.07%		
6) s 2,3,4-trifluorotoluene	21.243	27495169	52.773	ppb	
Spiked Amount 50.000		Recovery =	105.55%		
16) s fluorobenzene #2	16.427	14098929	41.559	ppb	
Spiked Amount 50.000		Recovery =	83.12%		
18) s 2,3,4-trifluorotoluen...	21.243	8449164	42.921	ppb	
Spiked Amount 50.000		Recovery =	85.84%		
Target Compounds					
1) h rt5.5-7	7.470	1216926	1.973	ppb	m
2) h rt7/10	9.920	3302633	5.355	ppb	m
3) h rt10/13	15.200	4030930	6.536	ppb	
8) h rt20/25	22.840	10435130	13.040	ppb	
14) mtbe #2	10.697	721938	4.685	ppb	m
24) naphthalene #2	28.770f	64281	0.735	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	8301467	16.885	ppb	m

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

7.1.4
7

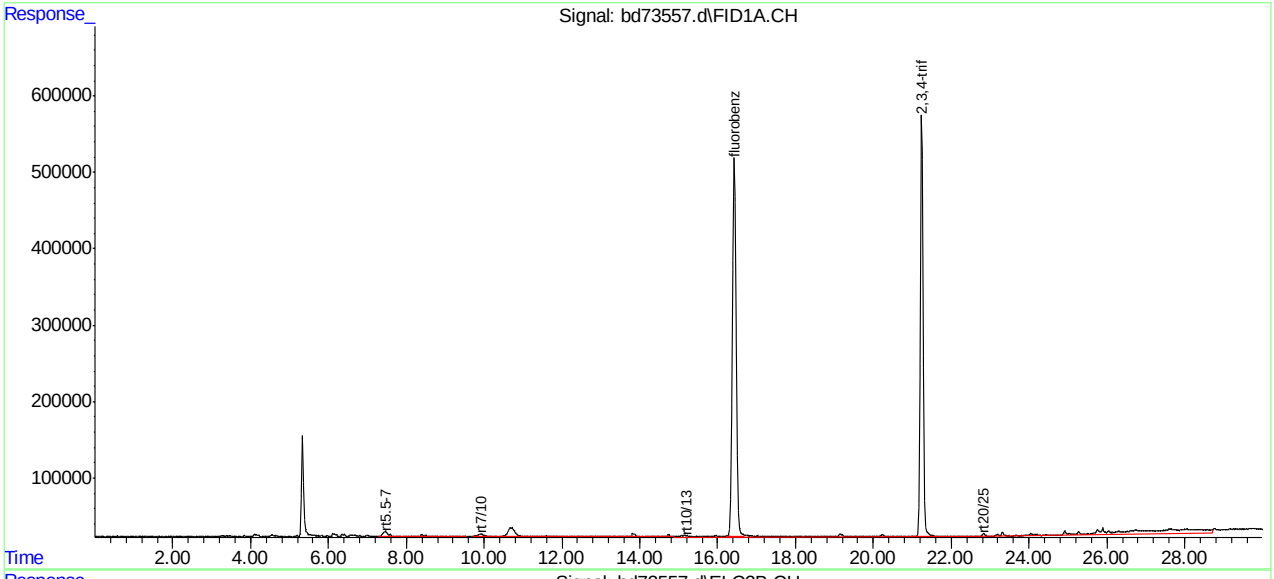
SGS ACCUTEST MC45897

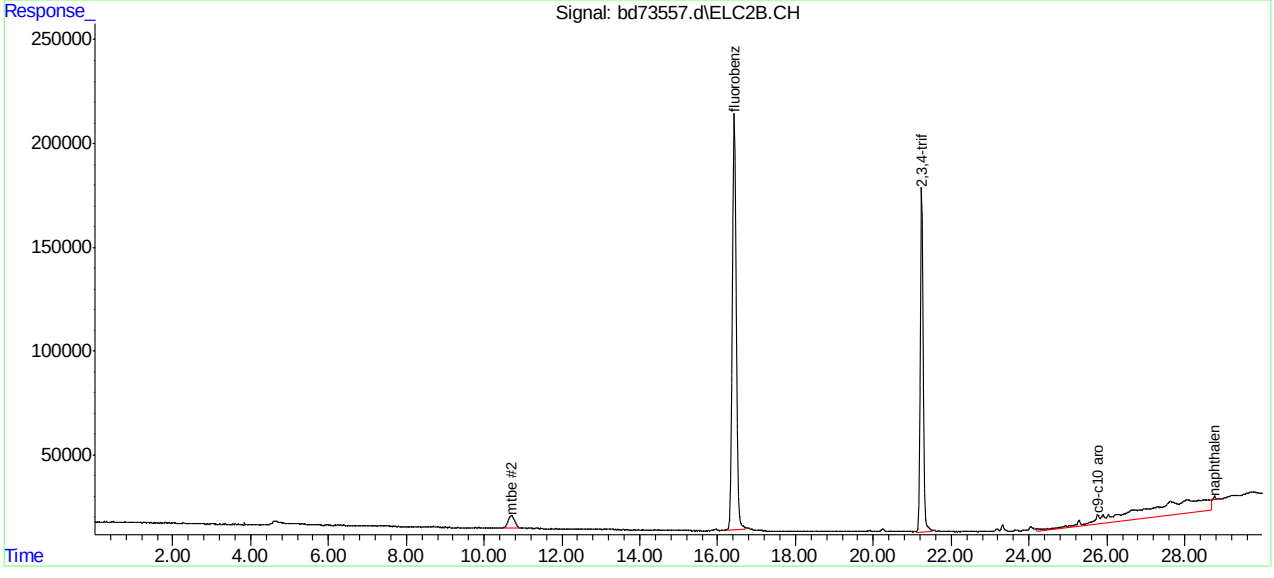
Quantitation Report (QT Reviewed)

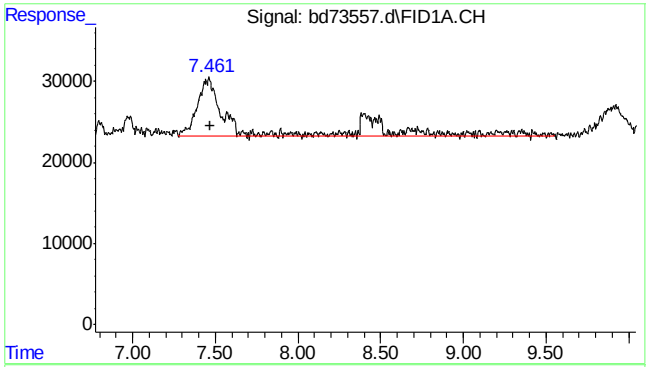
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73557.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 17:36:32
Operator : danielf
Sample : mc45897-4,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:49:34 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

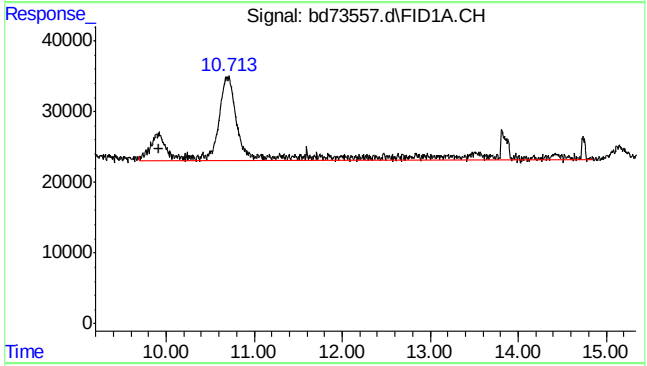






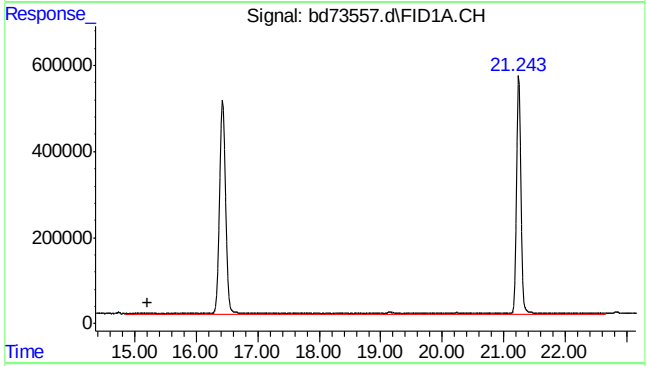
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 1216926
Conc: 1.97 ppb m



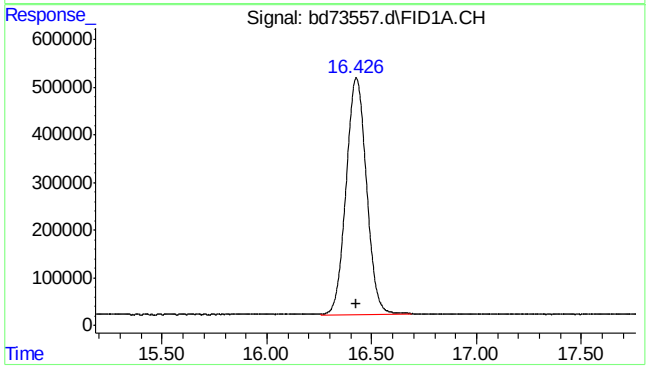
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 3302633
Conc: 5.35 ppb m



#3 rt10/13

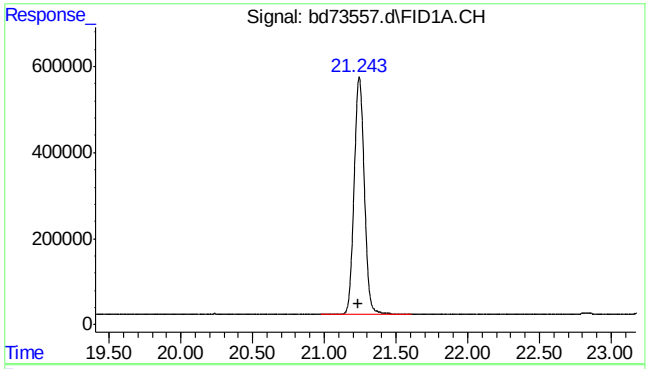
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 4030930
Conc: 6.54 ppb



#4 fluorobenzene

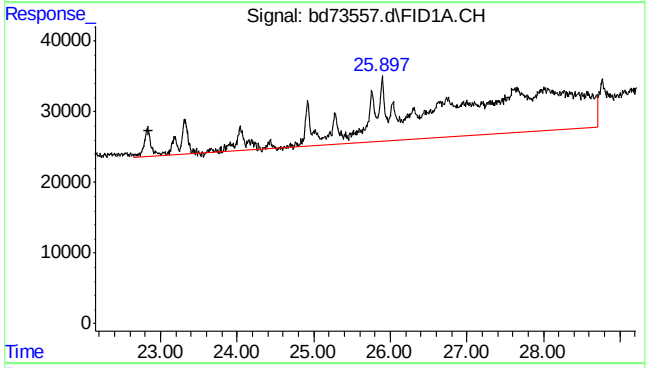
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 33704218
Conc: 49.54 ppb

SGS ACCUTEST MC45897



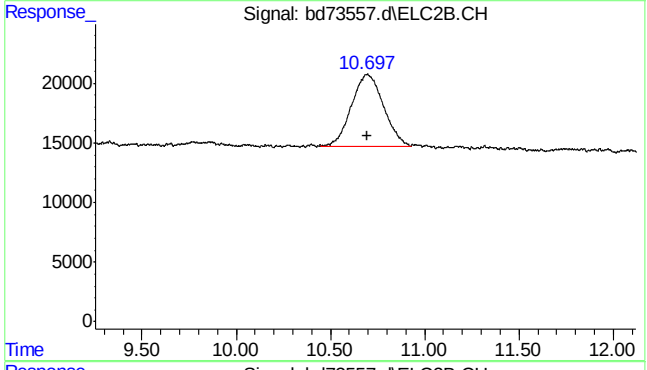
#6 2,3,4-trifluorotoluene

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 27495169
Conc: 52.77 ppb



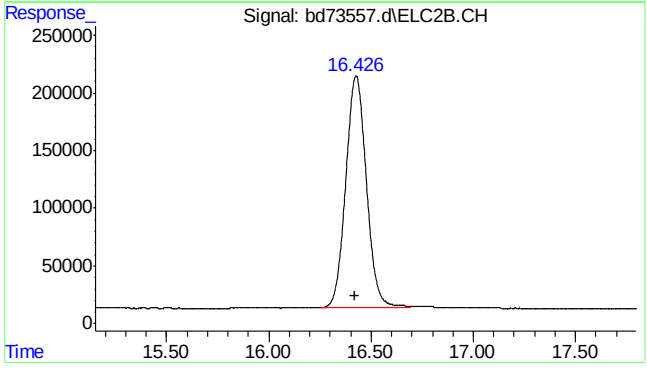
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 10435130
Conc: 13.04 ppb



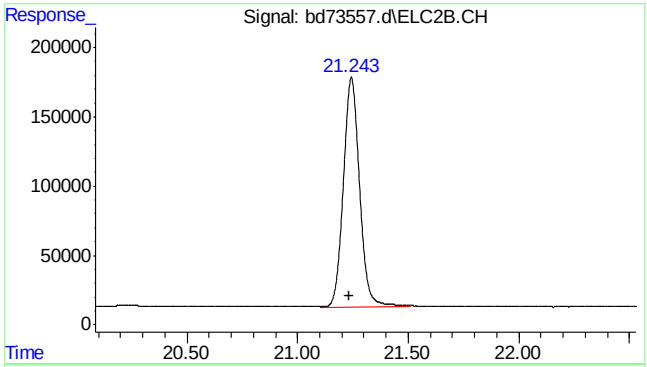
#14 mtbe #2

R.T.: 10.697 min
Delta R.T.: 0.000 min
Response: 721938
Conc: 4.68 ppb m



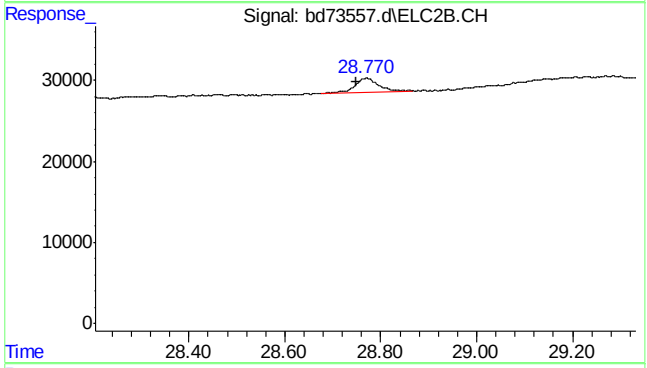
#16 fluorobenzene #2

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 14098929
Conc: 41.56 ppb



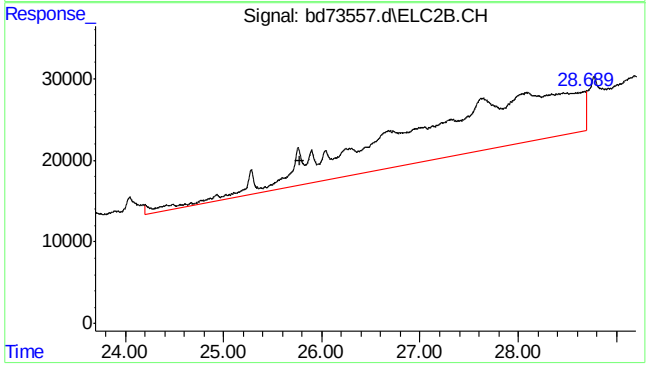
#18 2,3,4-trifluorotoluene #2

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 8449164
Conc: 42.92 ppb



#24 naphthalene #2

R.T.: 28.770 min
Delta R.T.: 0.020 min
Response: 64281
Conc: 0.74 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 8301467
Conc: 16.88 ppb m

7.1.4

7

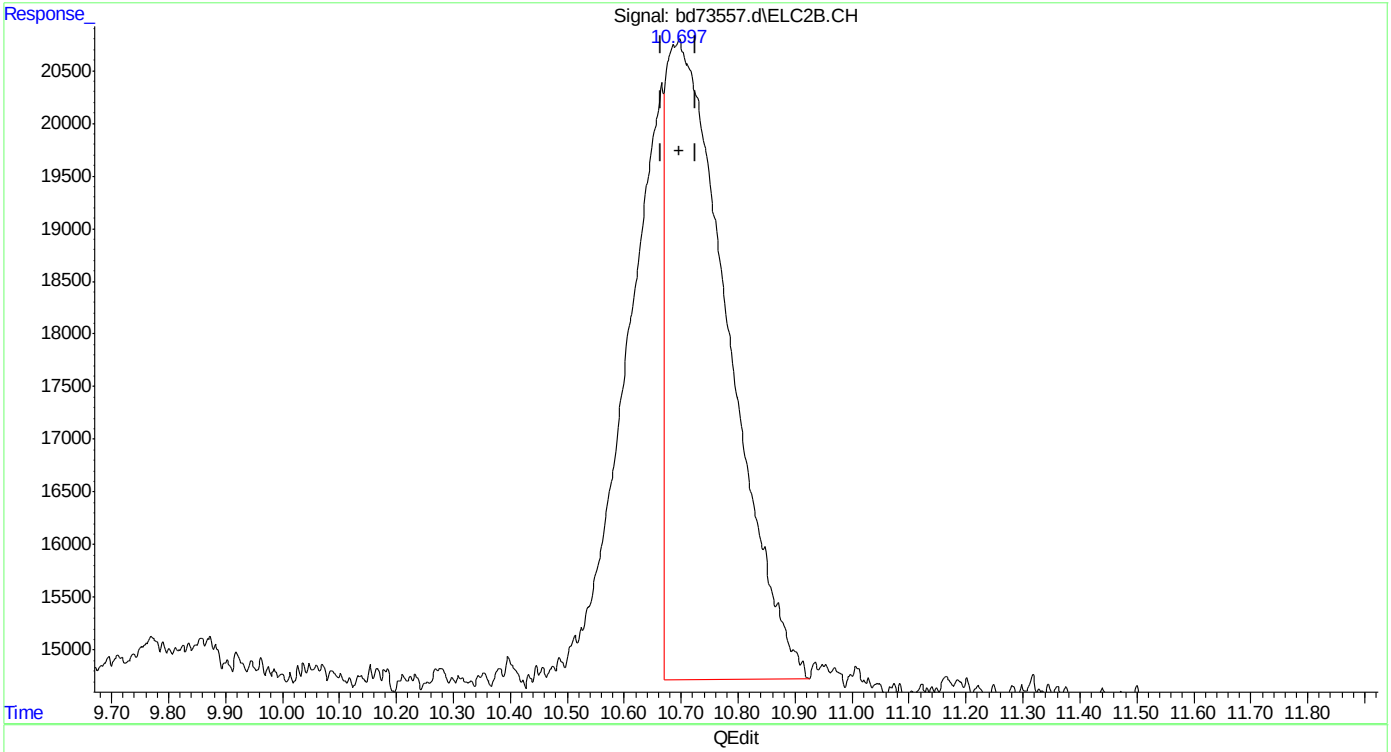
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73557.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 17:36:32
Operator : danielf
Sample : mc45897-4,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:40 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.697min 2.961 ppb
response 456367

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:48:49 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73557.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 17:36:32
Operator : danielf
Sample : mc45897-4,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:40 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(14) mtbe #2
10.697min 4.685 ppb m
response 721938

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:48:58 2016

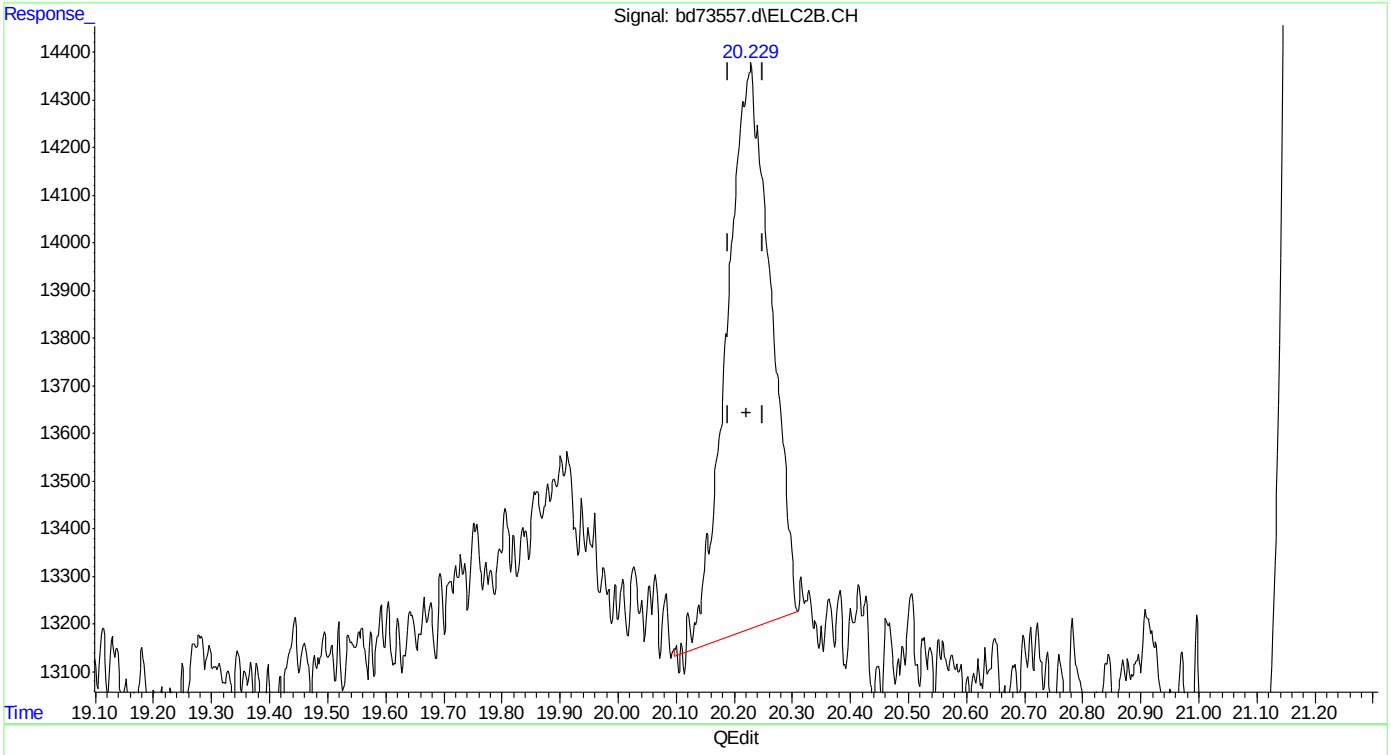
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73557.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 17:36:32
Operator : danielf
Sample : mc45897-4,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:40 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
20.228min 0.138 ppb
response 62337

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:49:04 2016

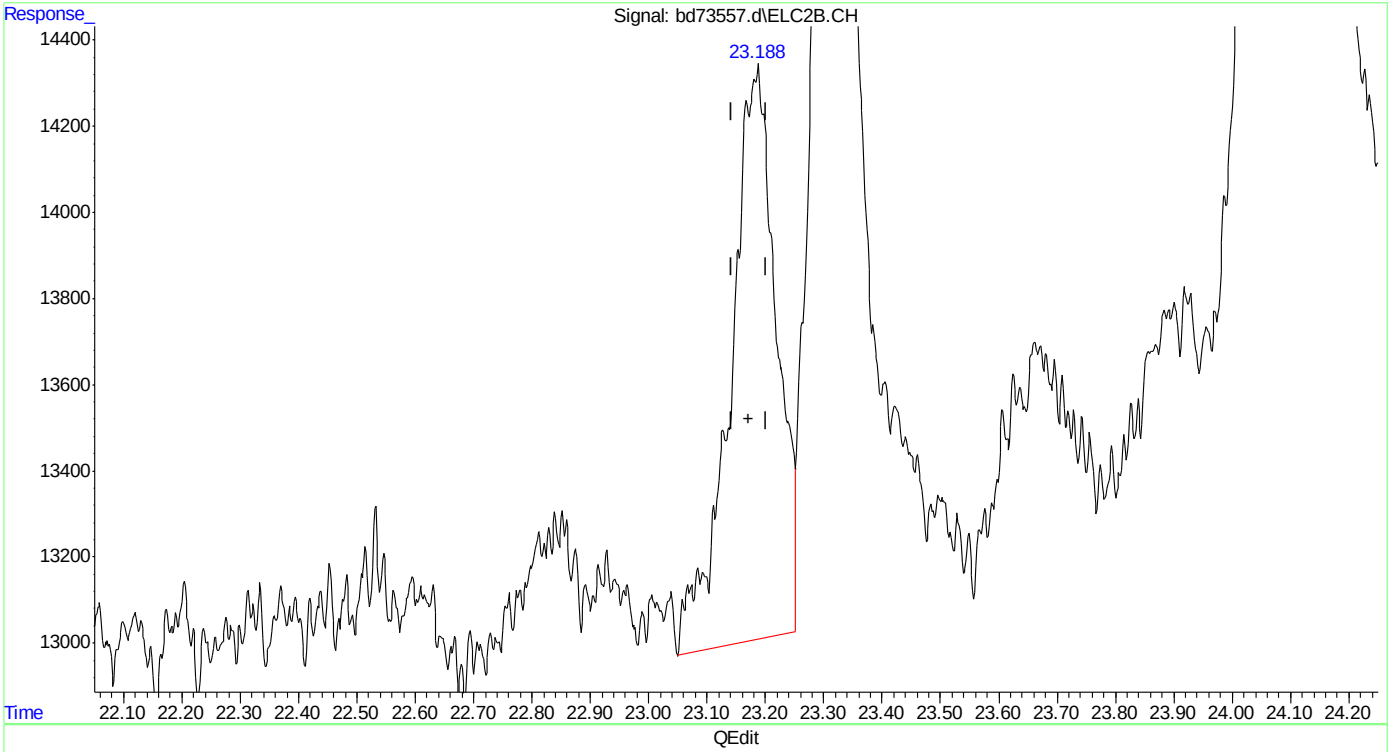
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73557.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 17:36:32
Operator : danielf
Sample : mc45897-4,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:40 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) ethylbenzene #2
23.187min 0.176 ppb
response 73105

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:49:08 2016

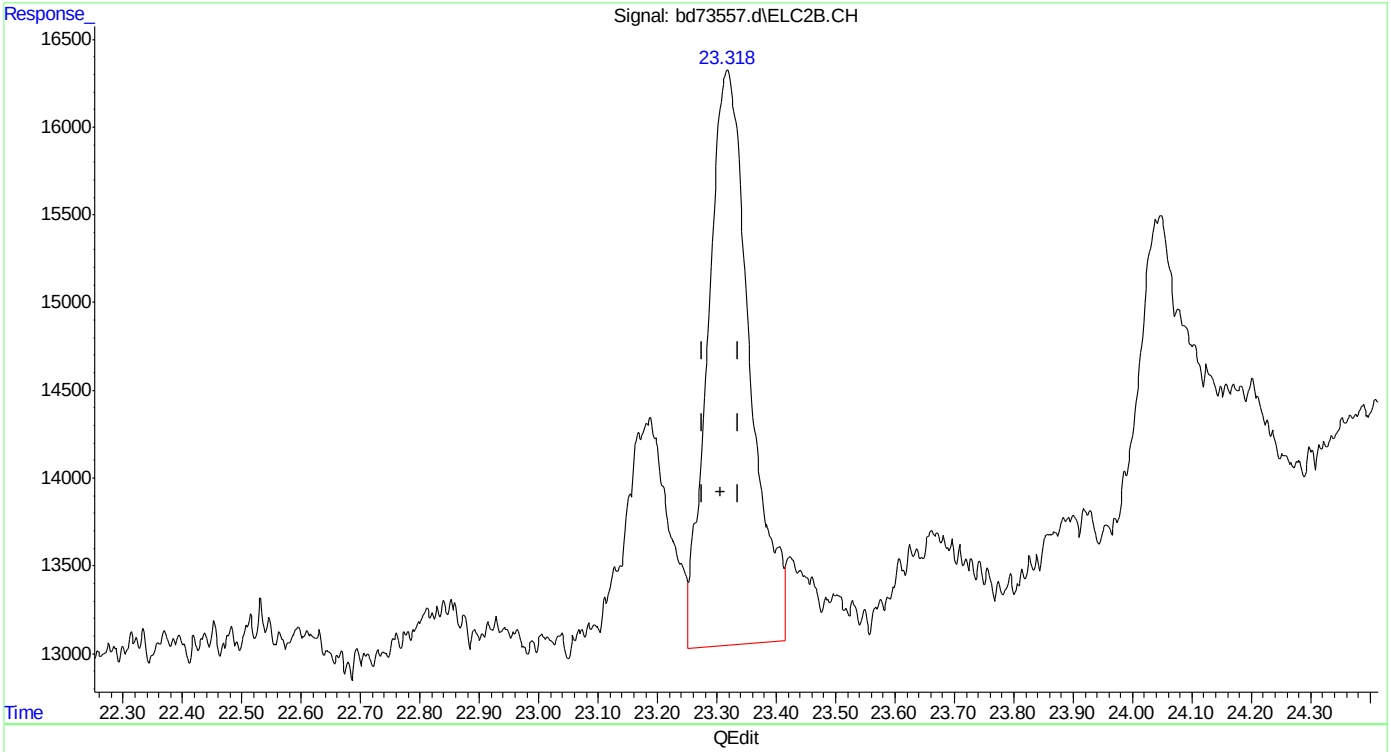
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73557.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 17:36:32
Operator : danielf
Sample : mc45897-4,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:40 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
23.318min 0.321 ppb
response 160246

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:49:12 2016

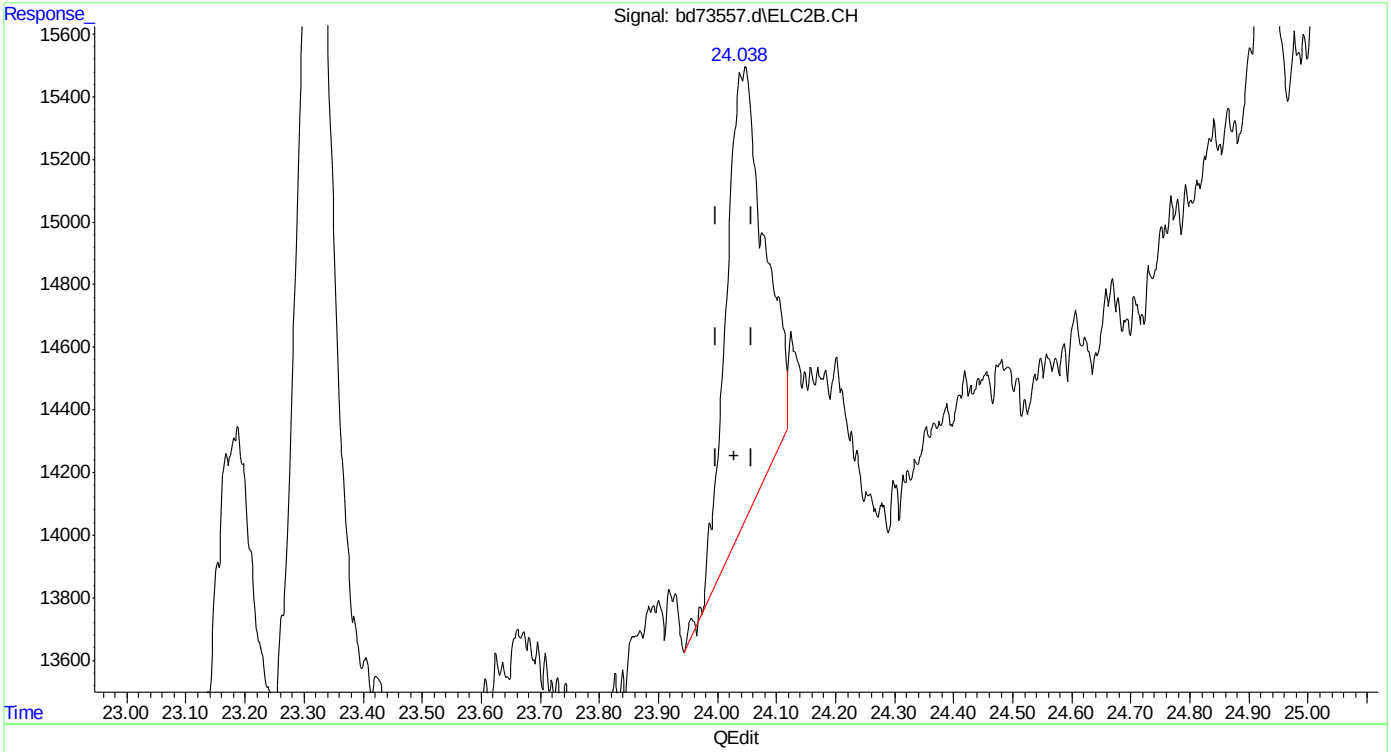
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73557.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 17:36:32
Operator : danielf
Sample : mc45897-4,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:40 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
24.048min 0.152 ppb
response 65892

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:49:15 2016

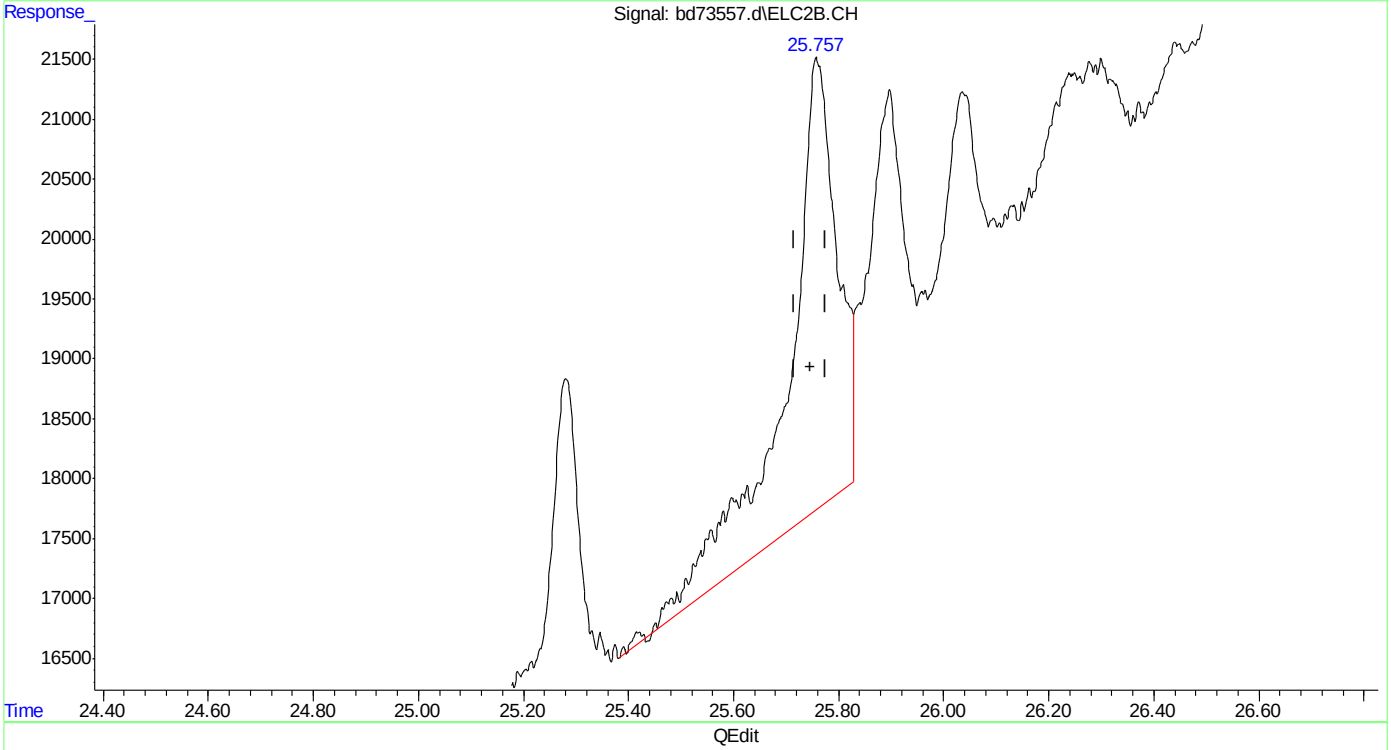
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73557.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 17:36:32
Operator : danielf
Sample : mc45897-4,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:40 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.759min 0.503 ppb
response 247534

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:49:21 2016

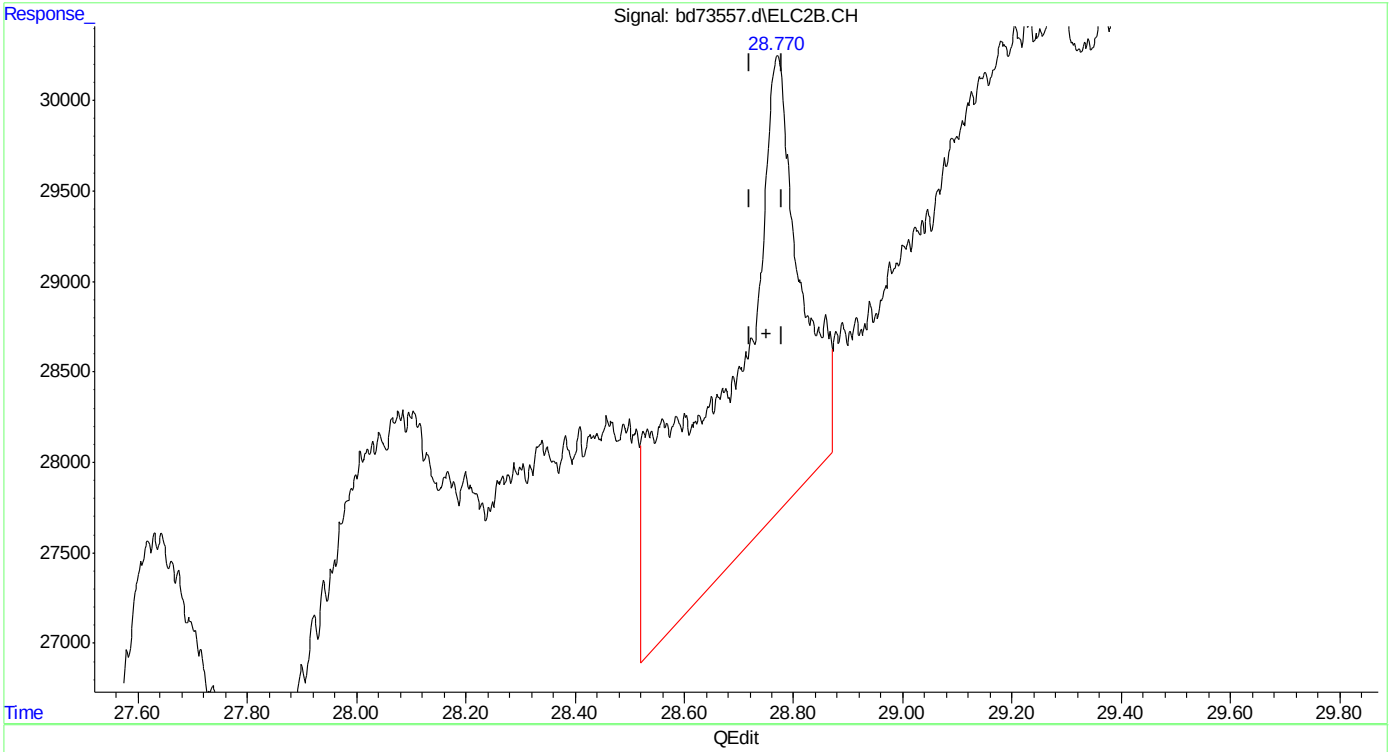
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73557.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 17:36:32
Operator : danielf
Sample : mc45897-4,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:40 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.771min 1.255 ppb
response 253603

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:49:25 2016

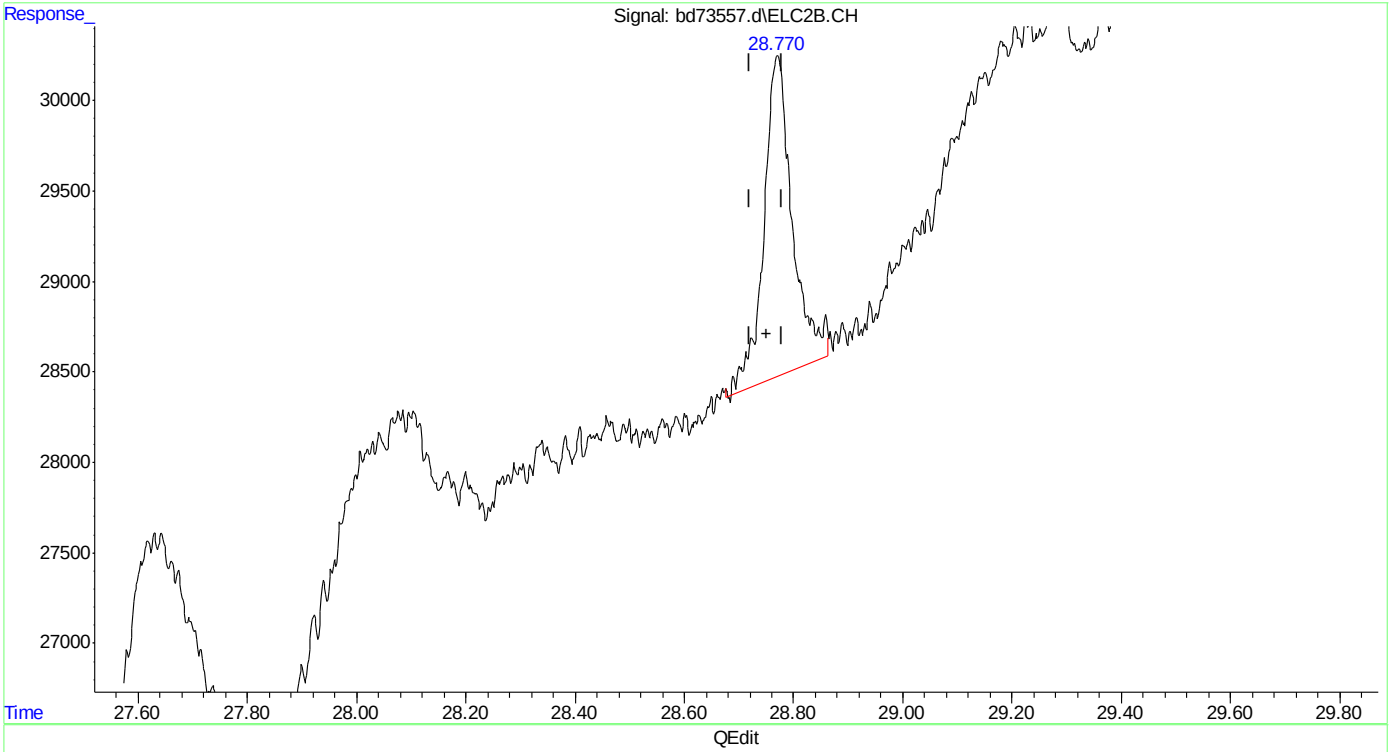
Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73557.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 17:36:32
Operator : danielf
Sample : mc45897-4,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:40 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.770min 0.735 ppb m
response 64281

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:49:30 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:52:42 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.428	35039518	51.498 ppb	
Spiked Amount 50.000		Recovery	= 103.00%	
6) s 2,3,4-trifluorotoluene	21.245	28026111	53.792 ppb	
Spiked Amount 50.000		Recovery	= 107.58%	
16) s fluorobenzene #2	16.428	14064050	41.456 ppb	
Spiked Amount 50.000		Recovery	= 82.91%	
18) s 2,3,4-trifluorotoluen...	21.245	8572723	43.548 ppb	
Spiked Amount 50.000		Recovery	= 87.10%	
Target Compounds				
1) h rt5.5-7	7.470	25036920	40.595 ppb	m
2) h rt7/10	9.920	12035179	19.514 ppb	m
3) h rt10/13	15.200	3959564	6.420 ppb	m
8) h rt20/25	22.840	12542668	15.674 ppb	m
14) mtbe #2	10.689	4329198	28.092 ppb	m
15) benzene #2	15.944	187304	0.387 ppb	m
24) naphthalene #2	28.770f	84933	0.792 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	11176647	22.733 ppb	

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

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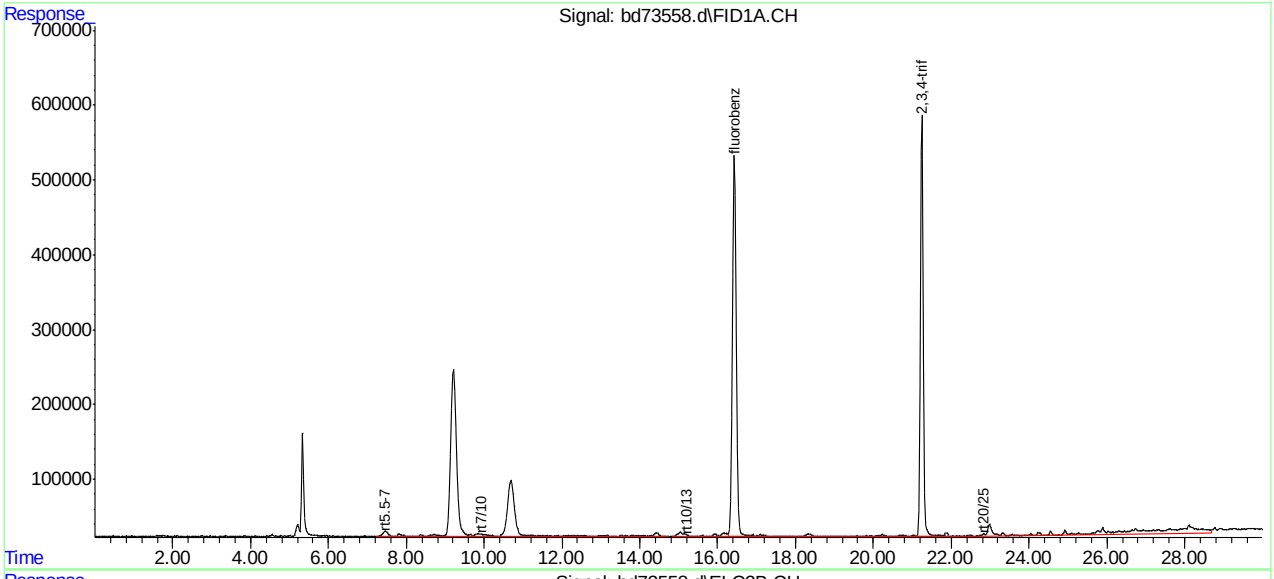
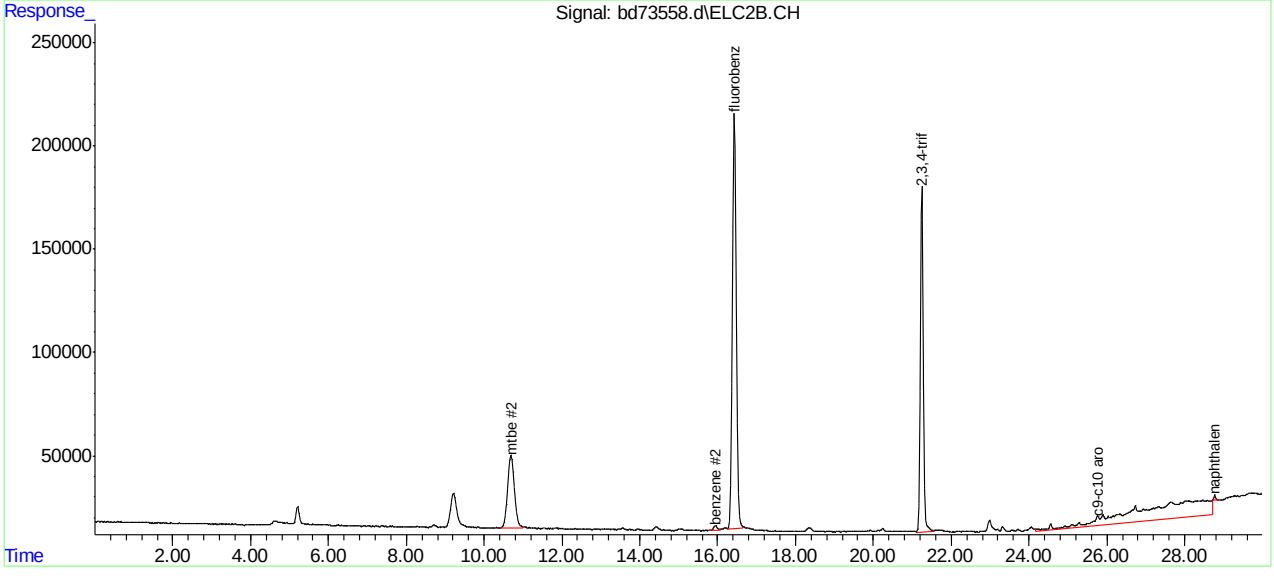
Quantitation Report (QT Reviewed)

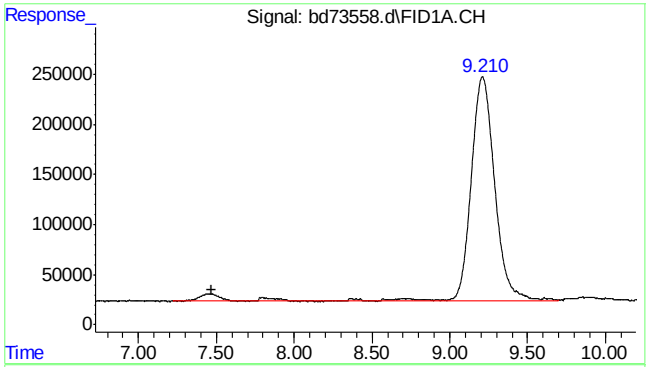
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:52:42 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

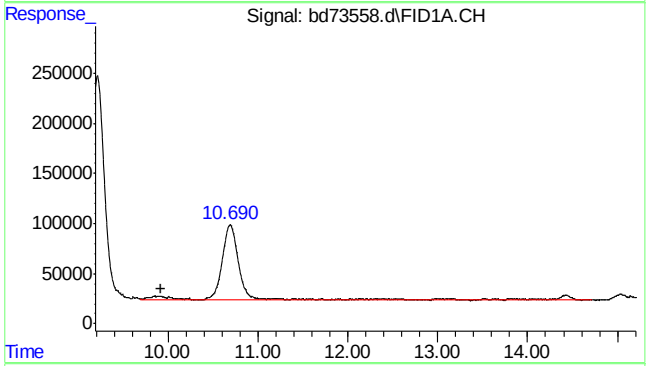






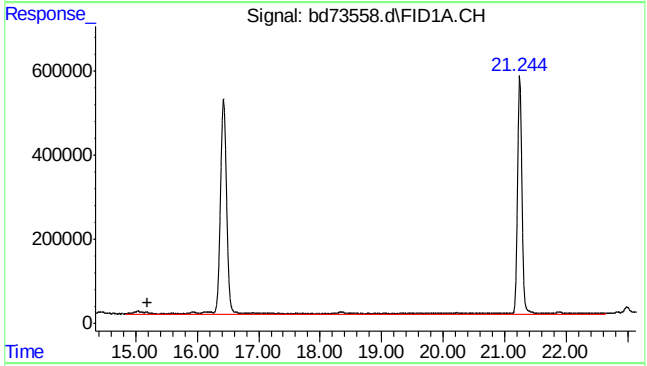
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 25036920
Conc: 40.60 ppb m



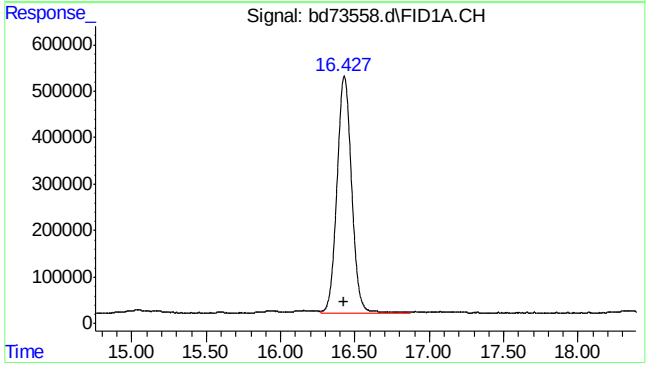
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 12035179
Conc: 19.51 ppb m



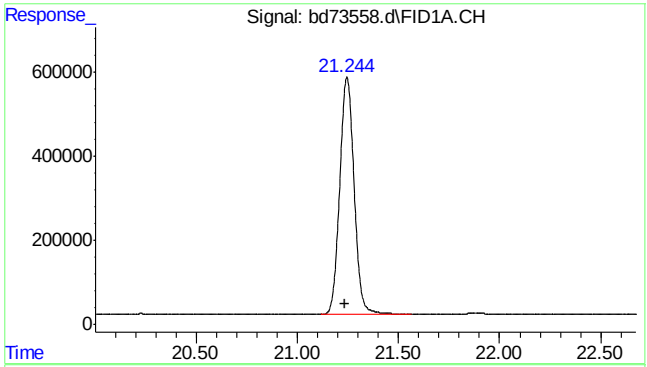
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 3959564
Conc: 6.42 ppb m



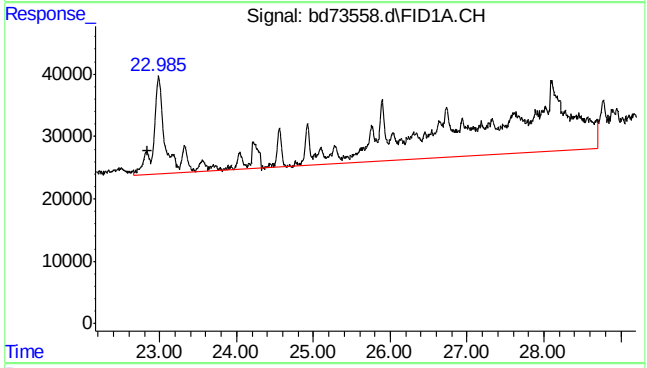
#4 fluorobenzene

R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 35039518
Conc: 51.50 ppb



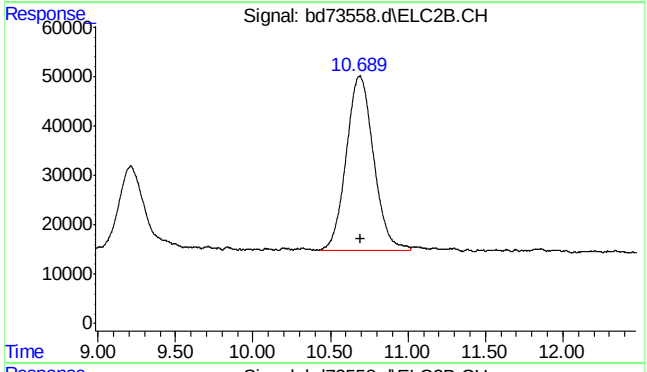
#6 2,3,4-trifluorotoluene

R.T.: 21.245 min
Delta R.T.: 0.008 min
Response: 28026111
Conc: 53.79 ppb



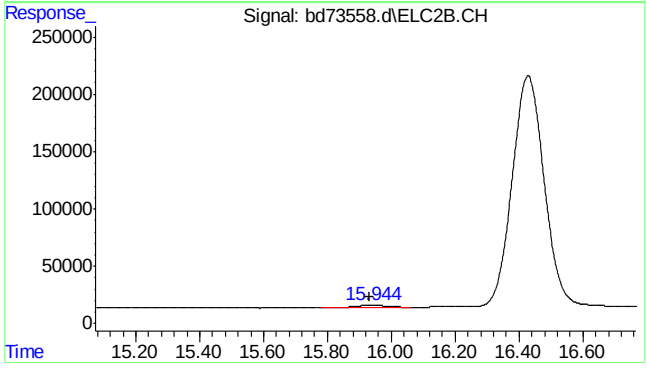
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 12542668
Conc: 15.67 ppb m



#14 mtbe #2

R.T.: 10.689 min
Delta R.T.: -0.007 min
Response: 4329198
Conc: 28.09 ppb m



#15 benzene #2

R.T.: 15.944 min
Delta R.T.: 0.012 min
Response: 187304
Conc: 0.39 ppb m

7.1.5

7

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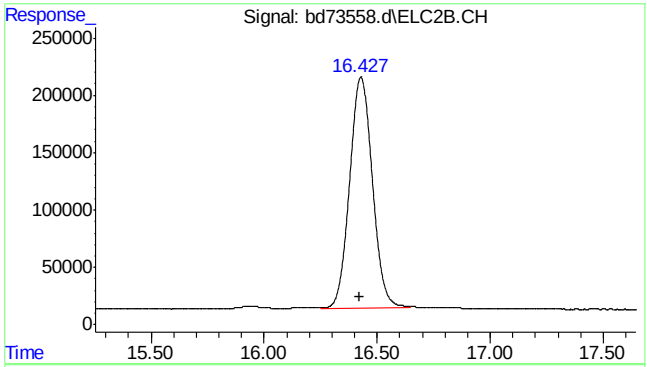
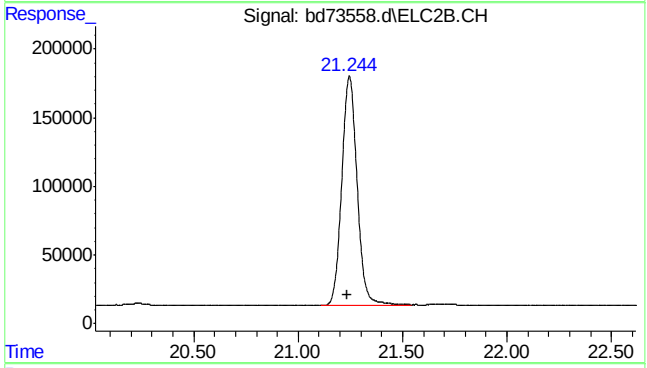


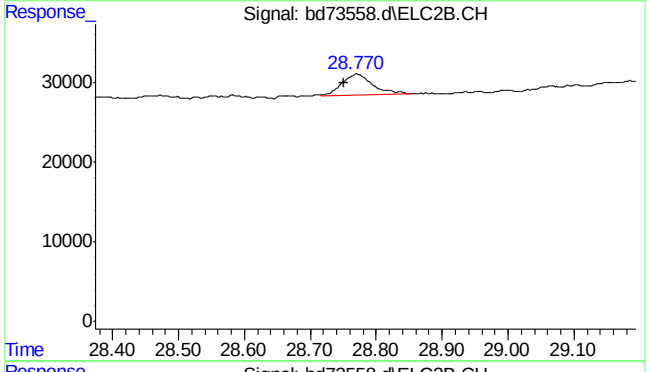
#16 fluorobenzene #2

R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 14064050
Conc: 41.46 ppb



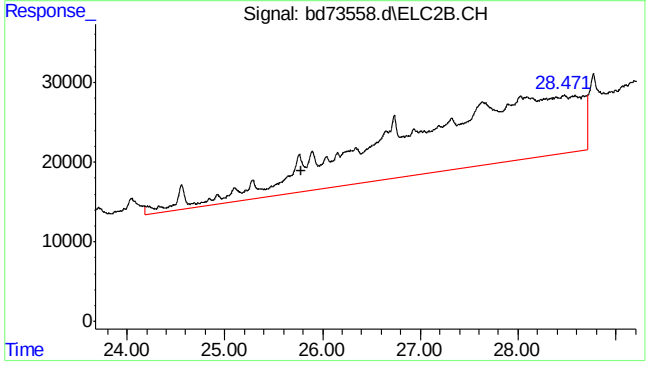
#18 2,3,4-trifluorotoluene #2

R.T.: 21.245 min
Delta R.T.: 0.008 min
Response: 8572723
Conc: 43.55 ppb



#24 naphthalene #2

R.T.: 28.770 min
Delta R.T.: 0.020 min
Response: 84933
Conc: 0.79 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 11176647
Conc: 22.73 ppb

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:45 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(14) mtbe #2
10.689min 28.092 ppb m
response 4329198

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:51:47 2016

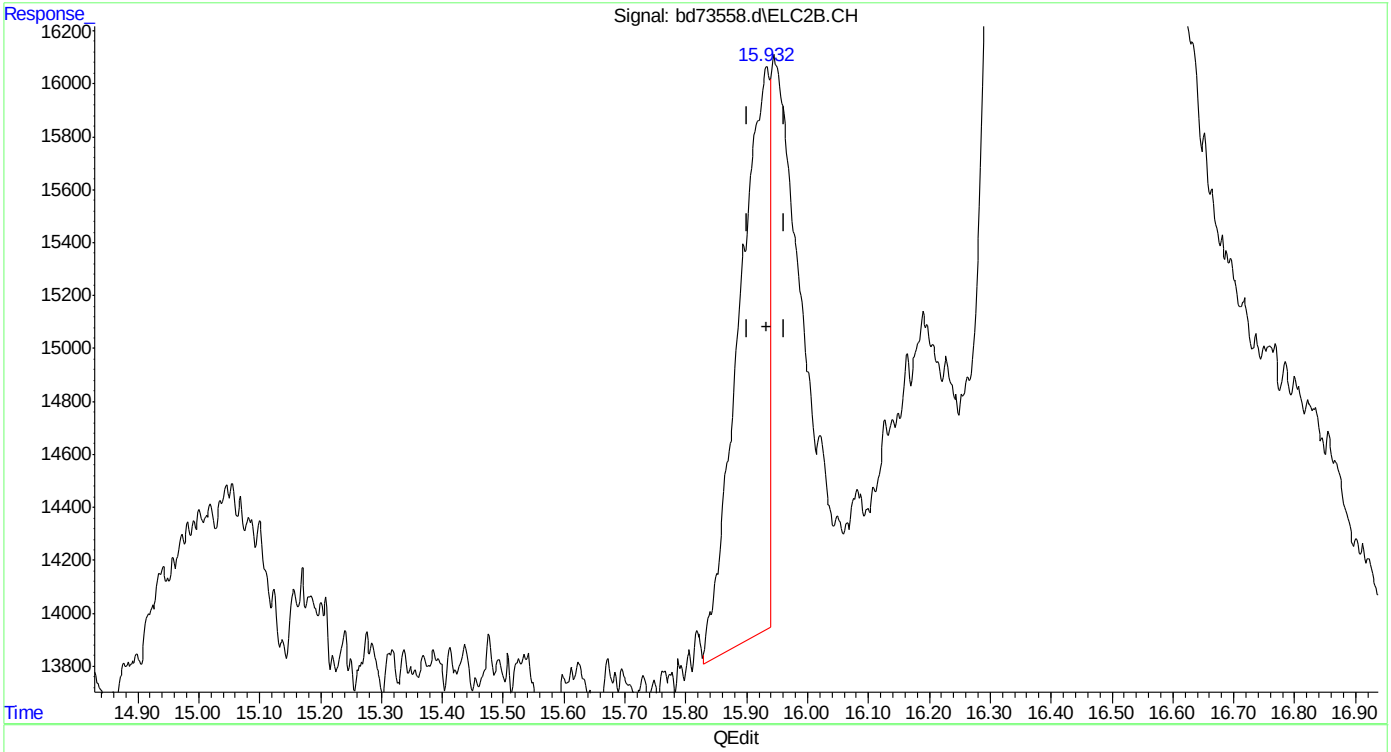
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:45 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
15.933min 0.151 ppb
response 72862

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:51:51 2016

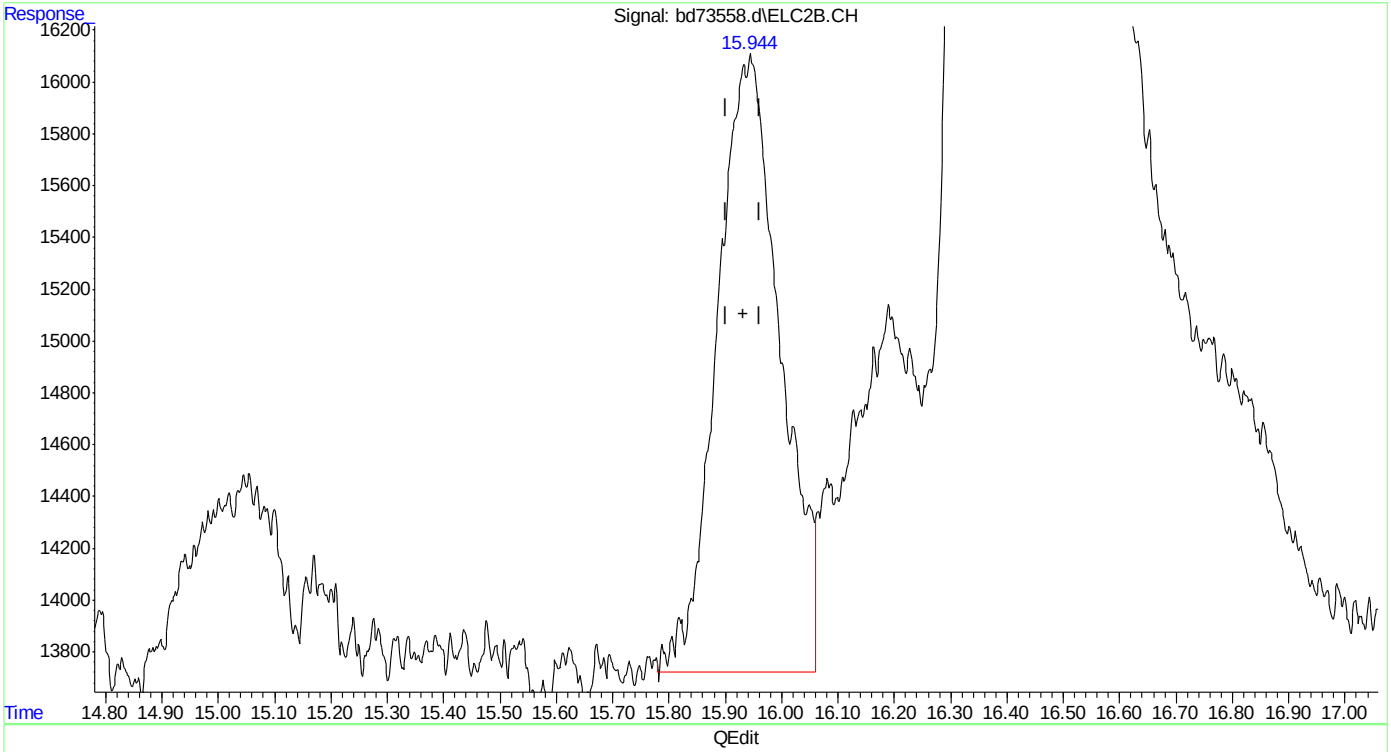
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:45 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
15.944min 0.387 ppb m
response 187304

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:52:09 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:45 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(17) toluene #2
20.241min 0.184 ppb
response 83237

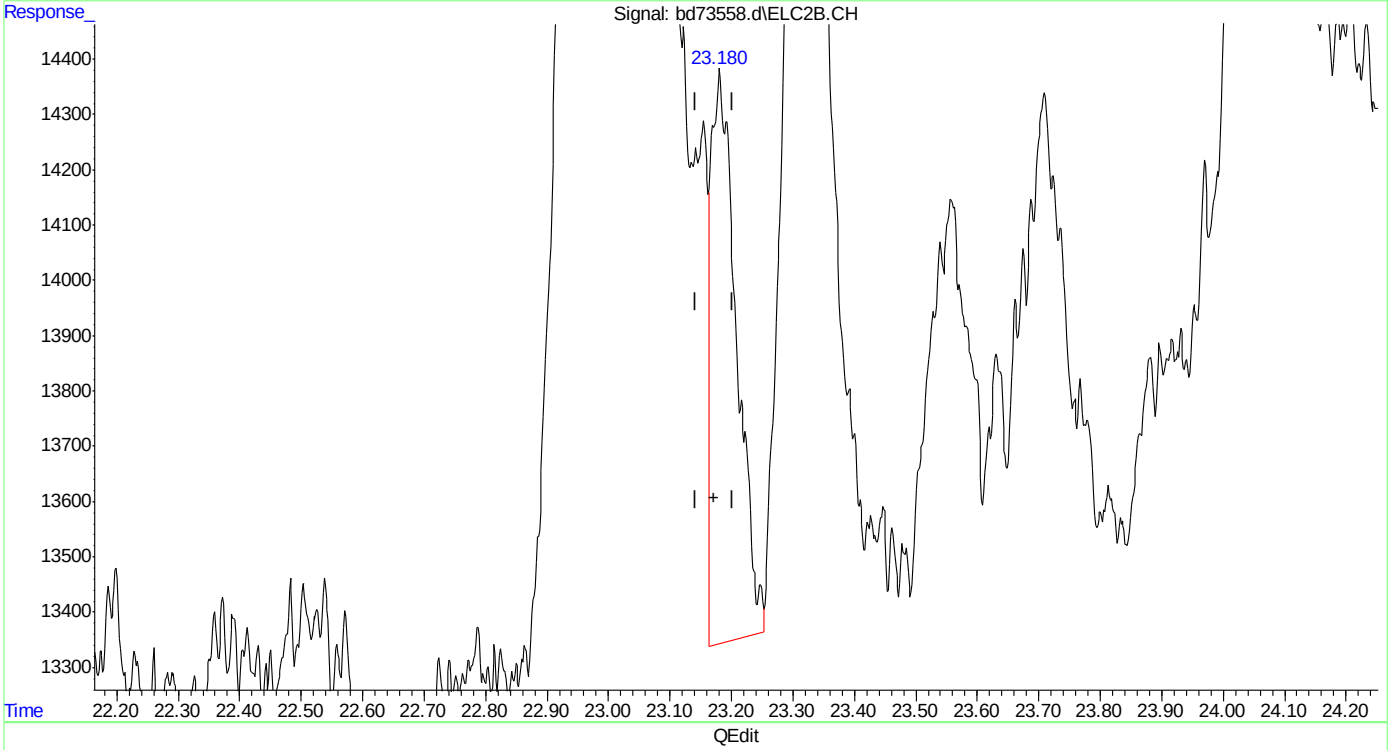
(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:52:14 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:45 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) ethylbenzene #2
23.181min 0.073 ppb
response 30250

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:52:19 2016

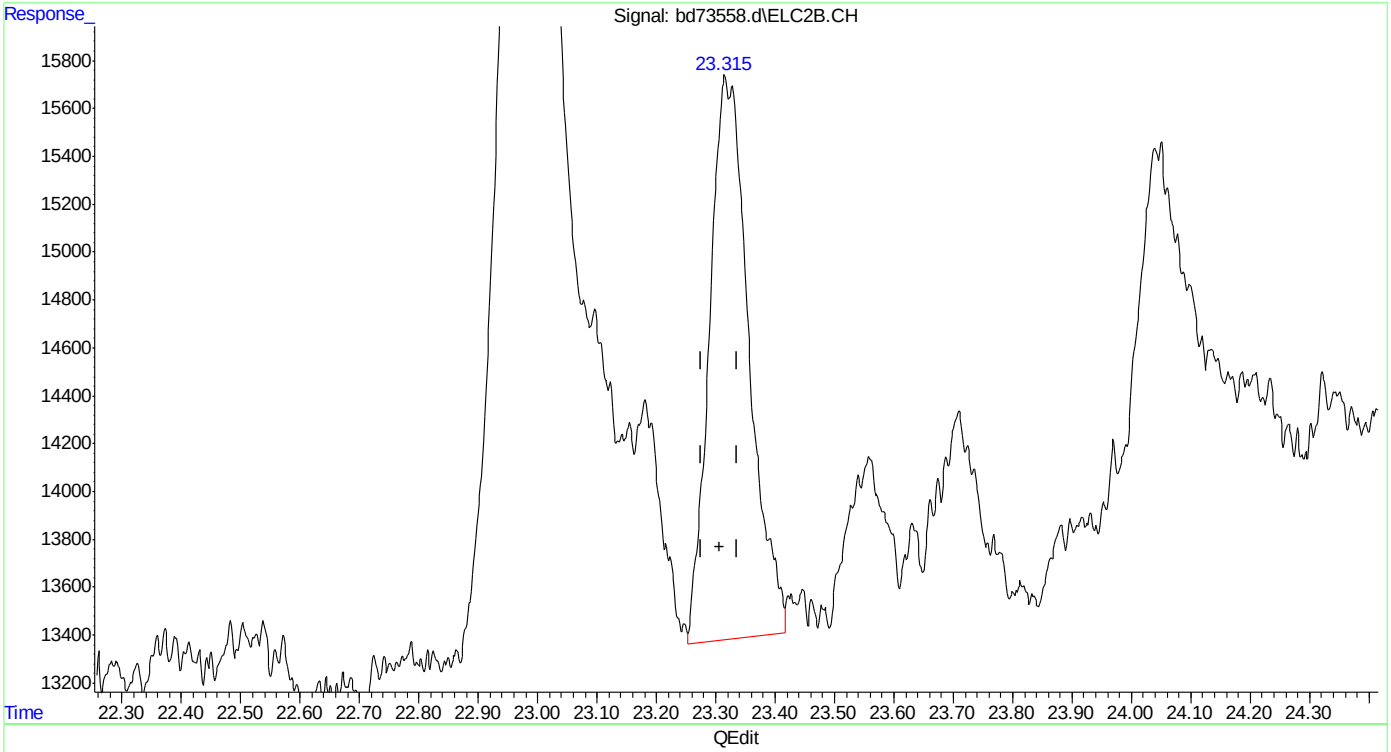
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:45 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
23.316min 0.218 ppb
response 108553

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:52:24 2016

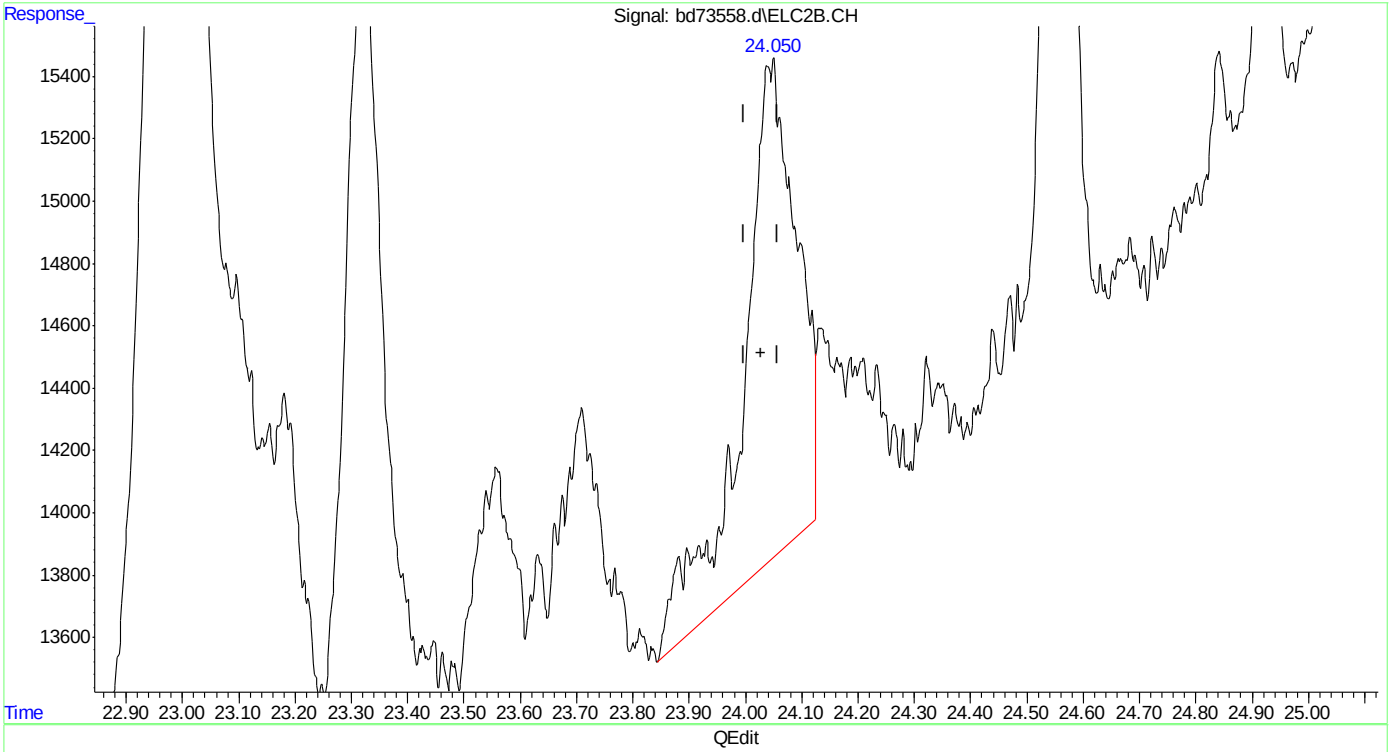
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:45 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
24.050min 0.245 ppb
response 106701

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:52:28 2016

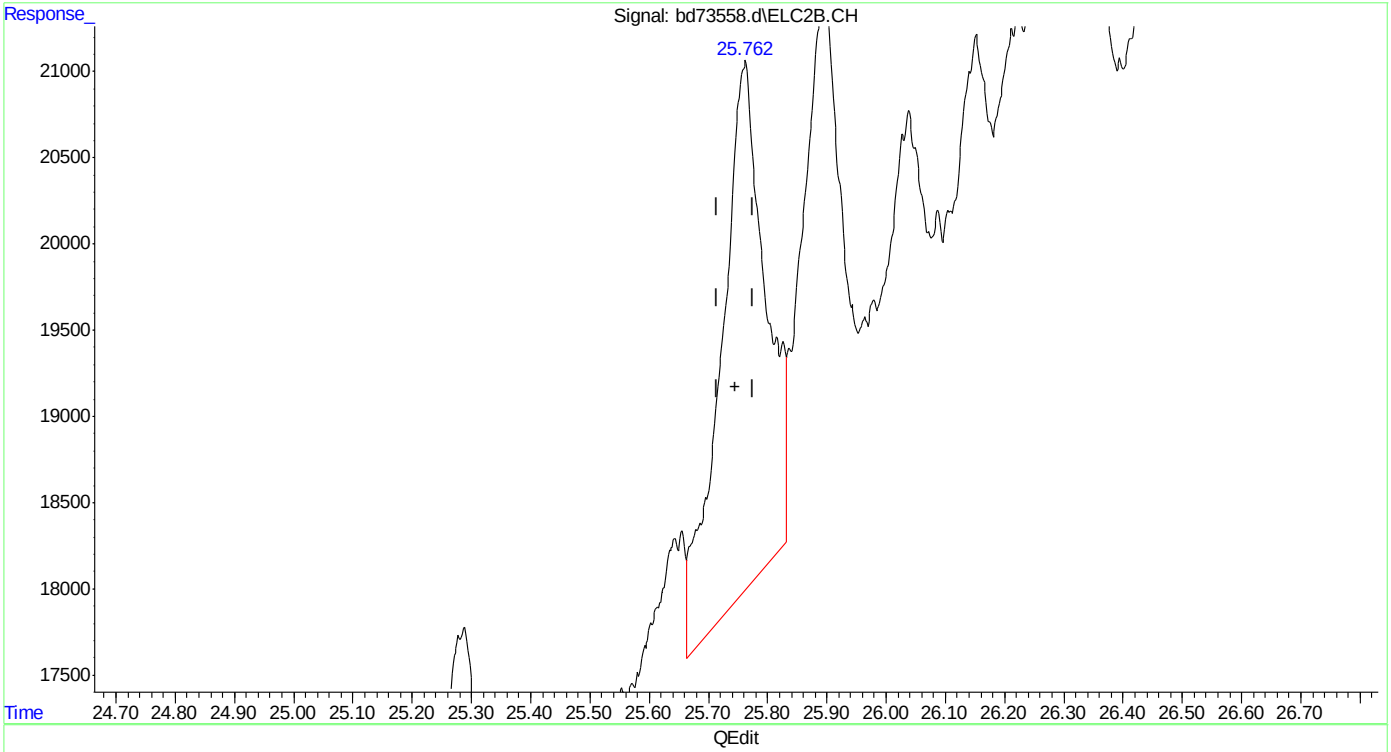
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:45 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.762min 0.328 ppb
response 161390

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:52:34 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:45 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(24) naphthalene #2
28.771min 0.830 ppb
response 98820

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:52:38 2016

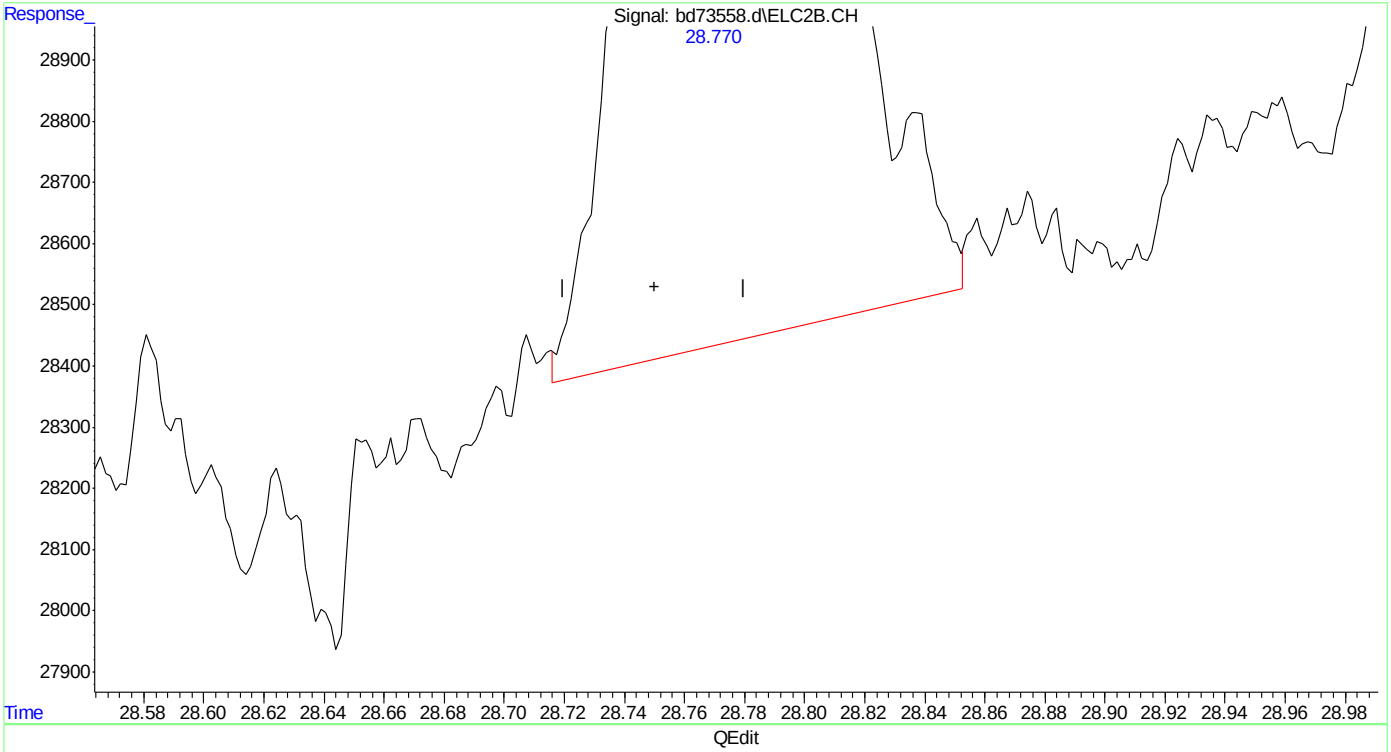
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73558.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:14:27
Operator : danielf
Sample : mc45897-5,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:45 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.770min 0.792 ppb m
response 84933

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:52:44 2016

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73559.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:52:53
Operator : danielf
Sample : mc45897-6,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:53:58 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.430	35337140	51.936	ppb	
Spiked Amount 50.000		Recovery = 103.87%			
6) s 2,3,4-trifluorotoluene	21.246	28249419	54.221	ppb	
Spiked Amount 50.000		Recovery = 108.44%			
16) s fluorobenzene #2	16.431	14076533	41.493	ppb	
Spiked Amount 50.000		Recovery = 82.99%			
18) s 2,3,4-trifluorotoluen...	21.245	8531745	43.340	ppb	
Spiked Amount 50.000		Recovery = 86.68%			
Target Compounds					
1) h rt5.5-7	7.470	943584	1.530	ppb	m
2) h rt7/10	9.920	1997503	3.239	ppb	m
3) h rt10/13	15.200	2482082	4.024	ppb	m
8) h rt20/25	22.840	10433307	13.038	ppb	m
24) naphthalene #2	28.770f	53212	0.705	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	11202011	22.785	ppb	

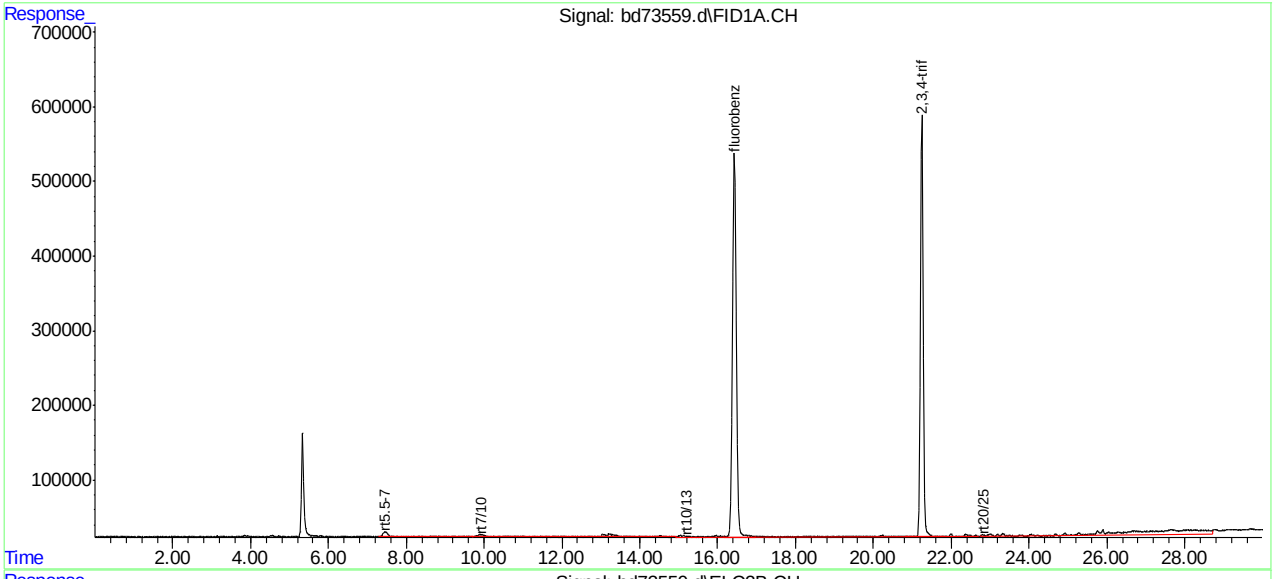
(f)=RT Delta > 1/2 Window (m)=manual int.

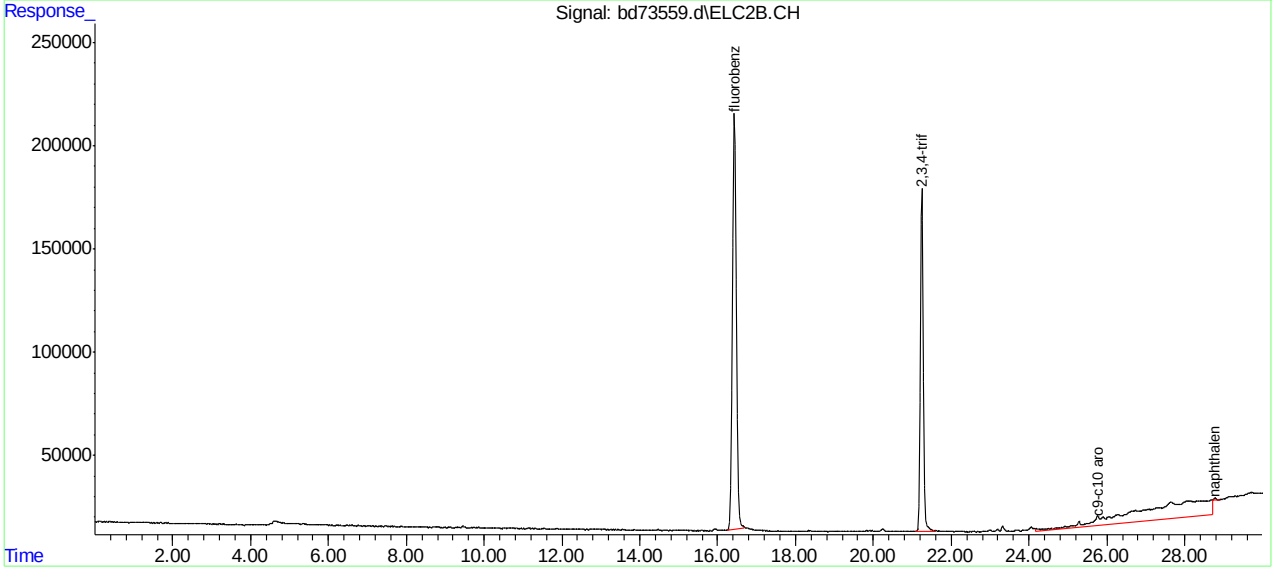
Quantitation Report (QT Reviewed)

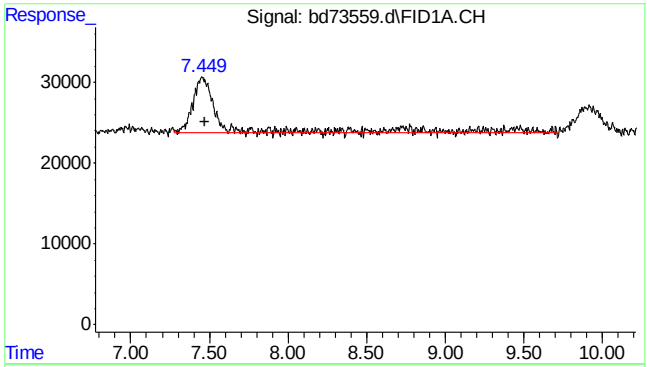
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73559.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:52:53
Operator : danielf
Sample : mc45897-6,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:53:58 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

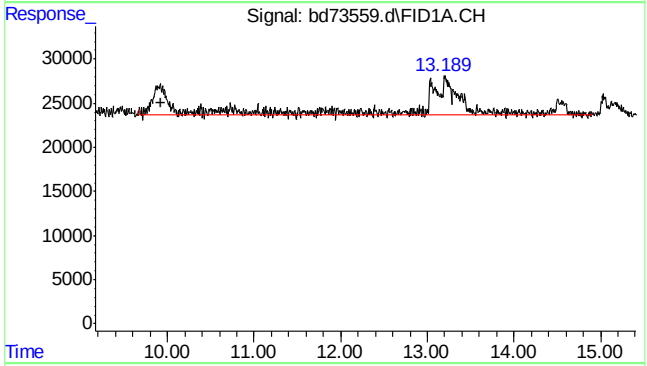






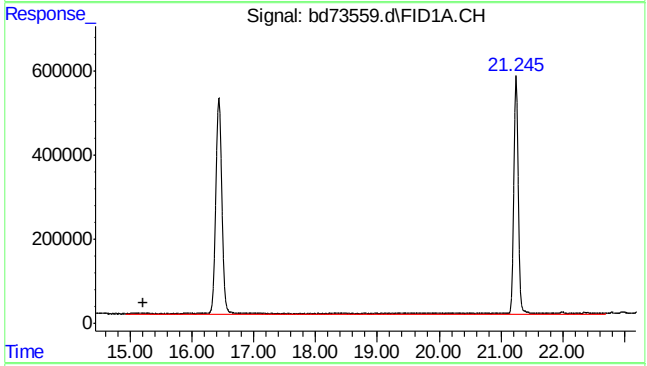
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 943584
Conc: 1.53 ppb m



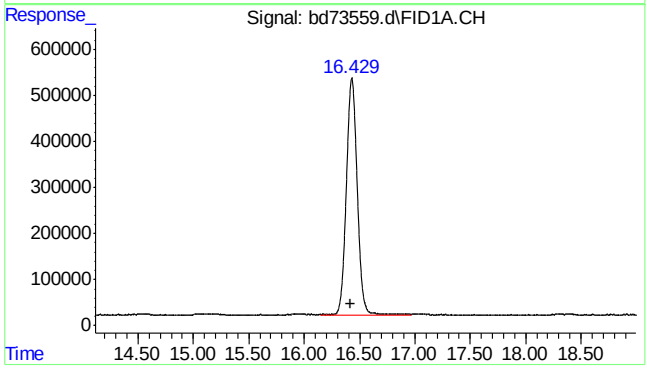
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 1997503
Conc: 3.24 ppb m



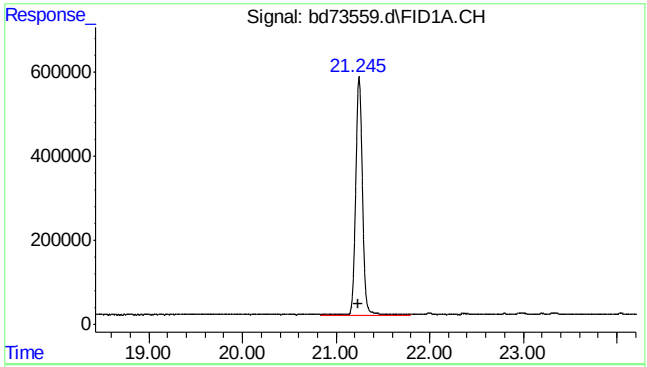
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 2482082
Conc: 4.02 ppb m



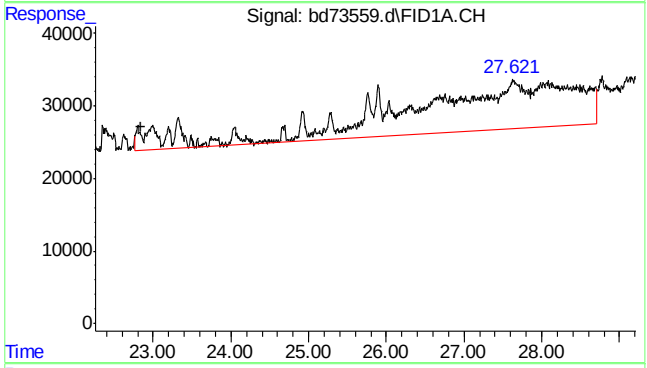
#4 fluorobenzene

R.T.: 16.430 min
Delta R.T.: 0.006 min
Response: 35337140
Conc: 51.94 ppb



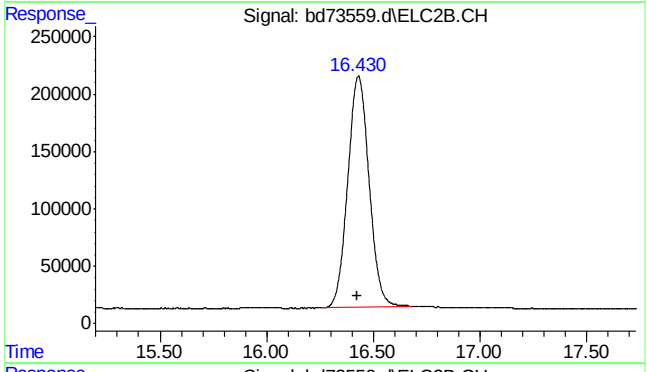
#6 2,3,4-trifluorotoluene

R.T.: 21.246 min
Delta R.T.: 0.009 min
Response: 28249419
Conc: 54.22 ppb



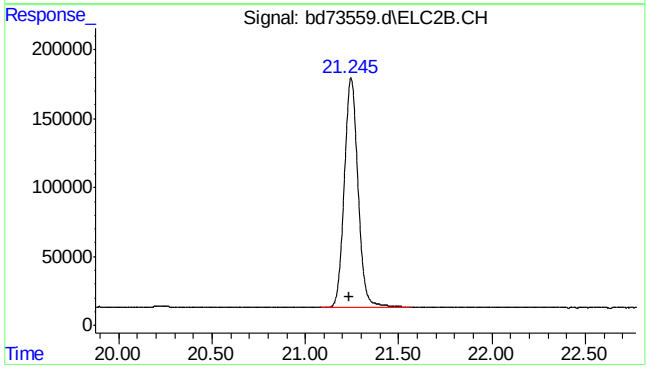
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 10433307
Conc: 13.04 ppb m



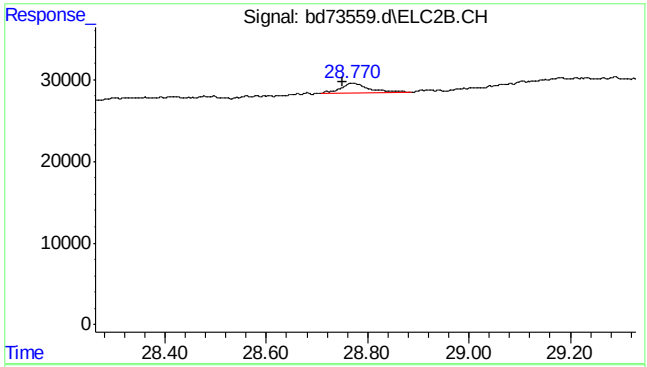
#16 fluorobenzene #2

R.T.: 16.431 min
Delta R.T.: 0.007 min
Response: 14076533
Conc: 41.49 ppb



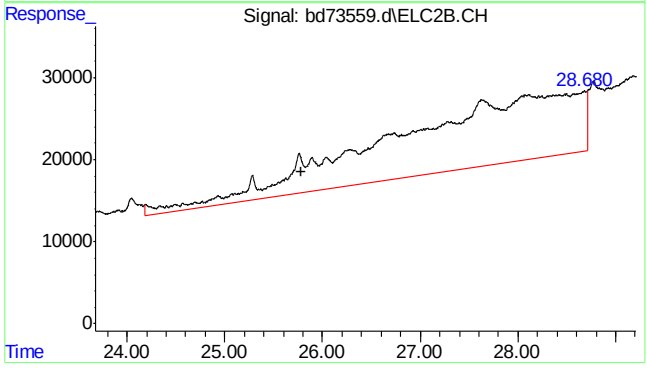
#18 2,3,4-trifluorotoluene #2

R.T.: 21.245 min
Delta R.T.: 0.008 min
Response: 8531745
Conc: 43.34 ppb



#24 naphthalene #2

R.T.: 28.770 min
Delta R.T.: 0.020 min
Response: 53212
Conc: 0.70 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 11202011
Conc: 22.78 ppb

7.1.6

7

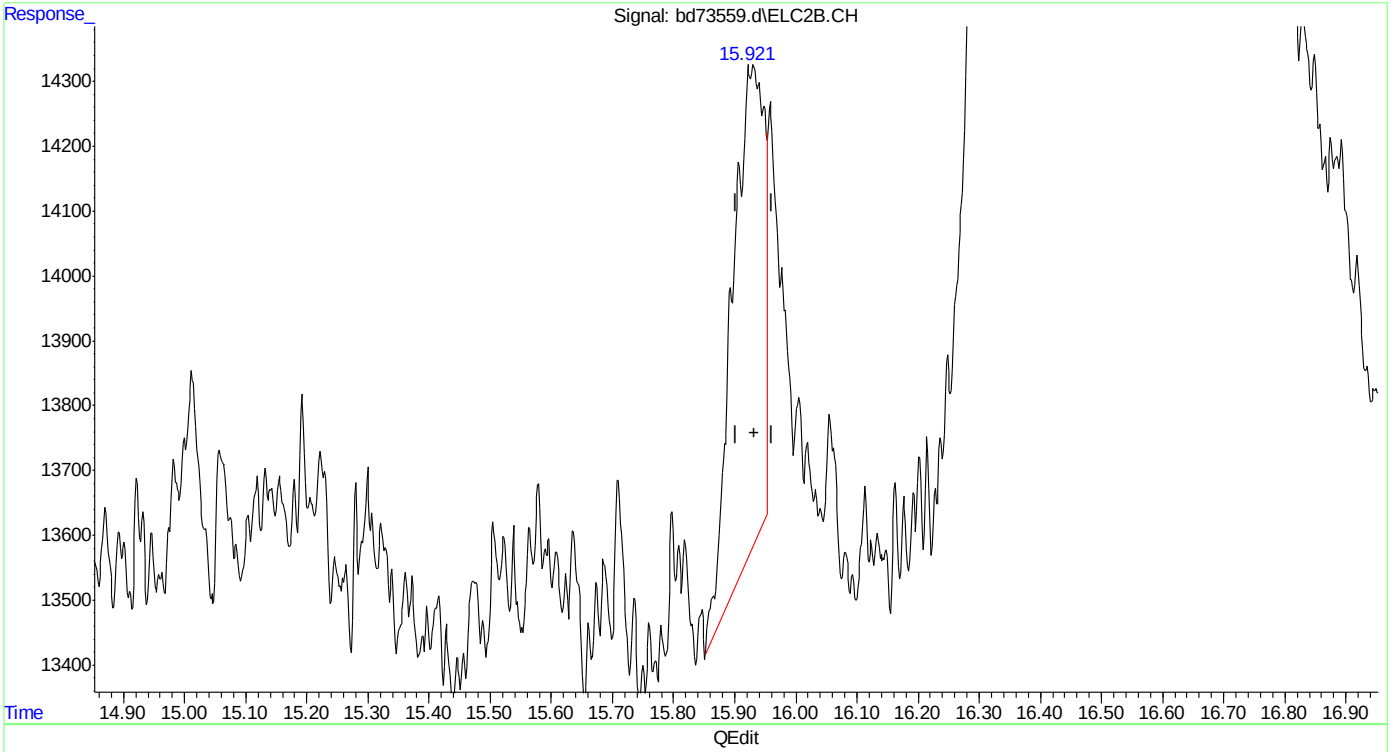
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73559.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:52:53
Operator : danielf
Sample : mc45897-6,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
15.931min 0.056 ppb
response 27068

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:53:24 2016

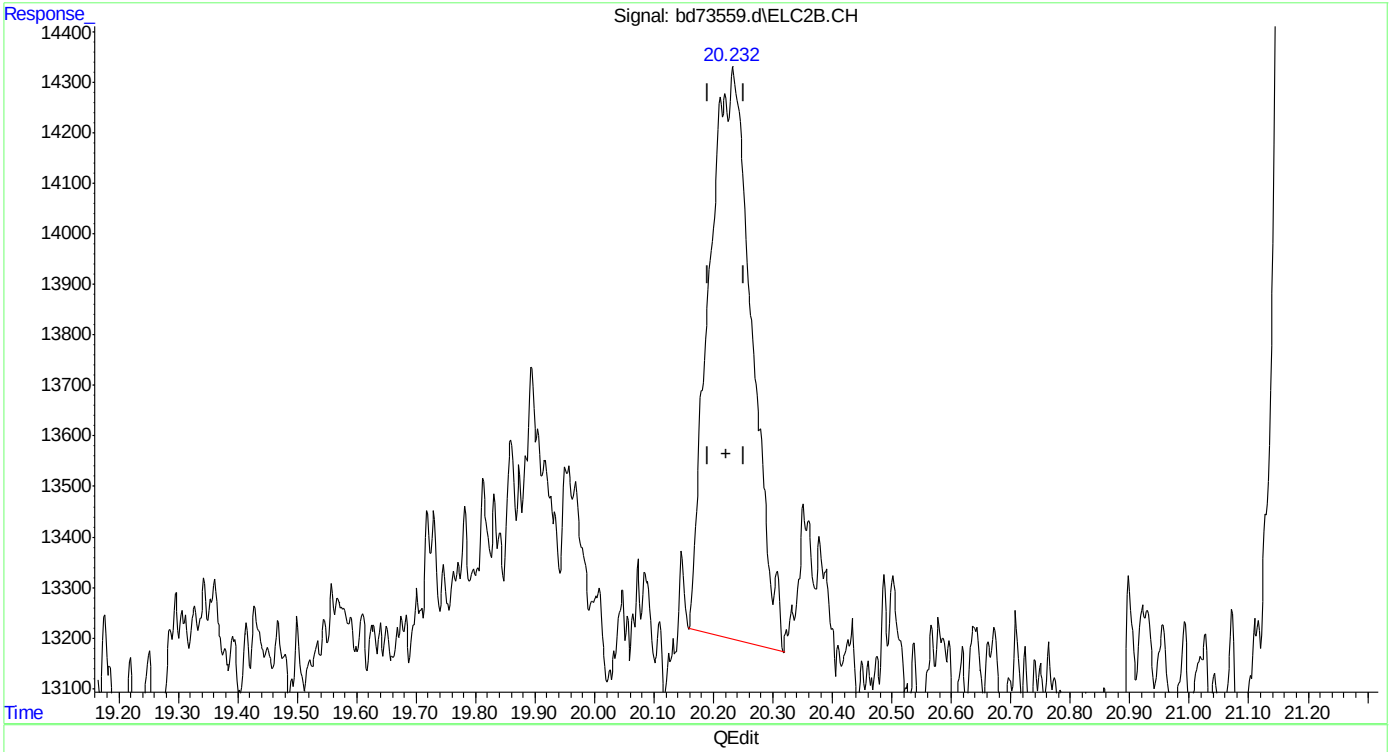
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73559.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:52:53
Operator : danielf
Sample : mc45897-6,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
20.233min 0.125 ppb
response 56371

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:53:29 2016

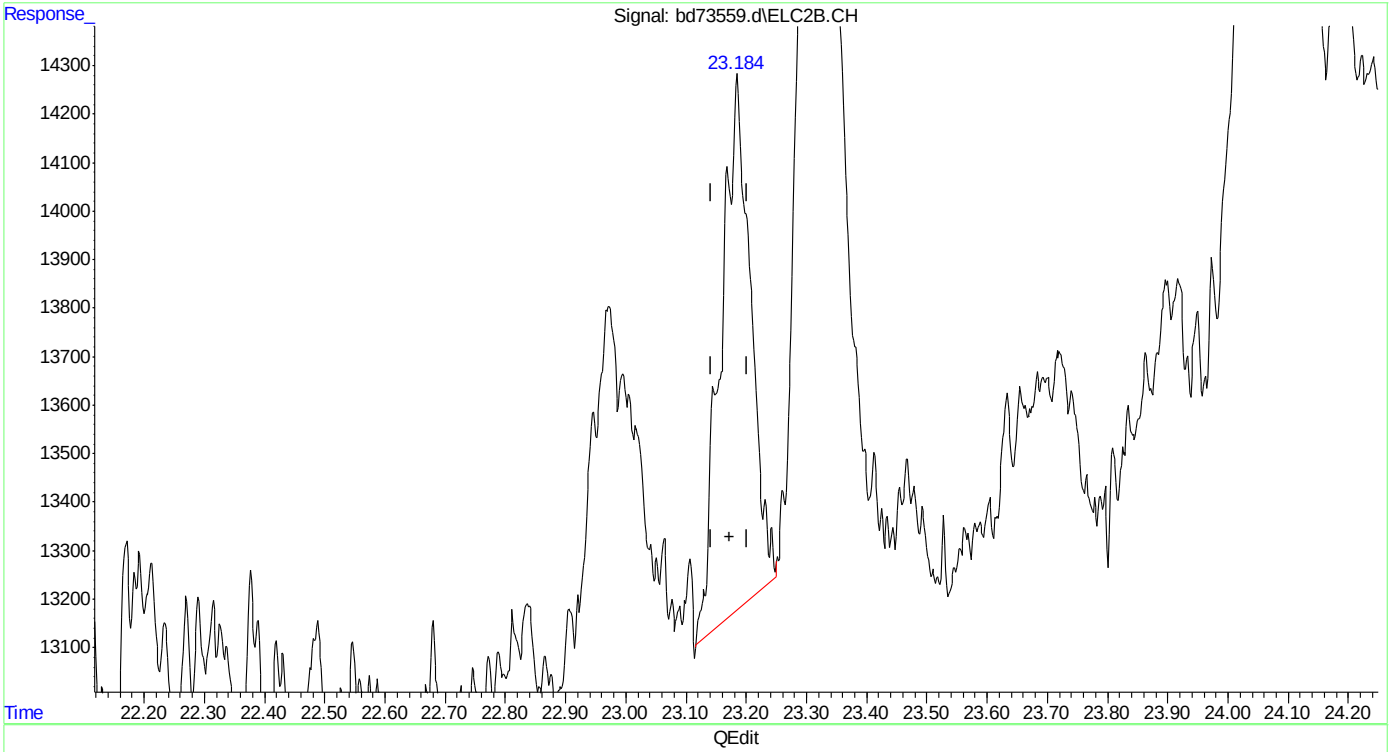
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73559.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:52:53
Operator : danielf
Sample : mc45897-6,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) ethylbenzene #2
23.185min 0.091 ppb
response 37843

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:53:33 2016

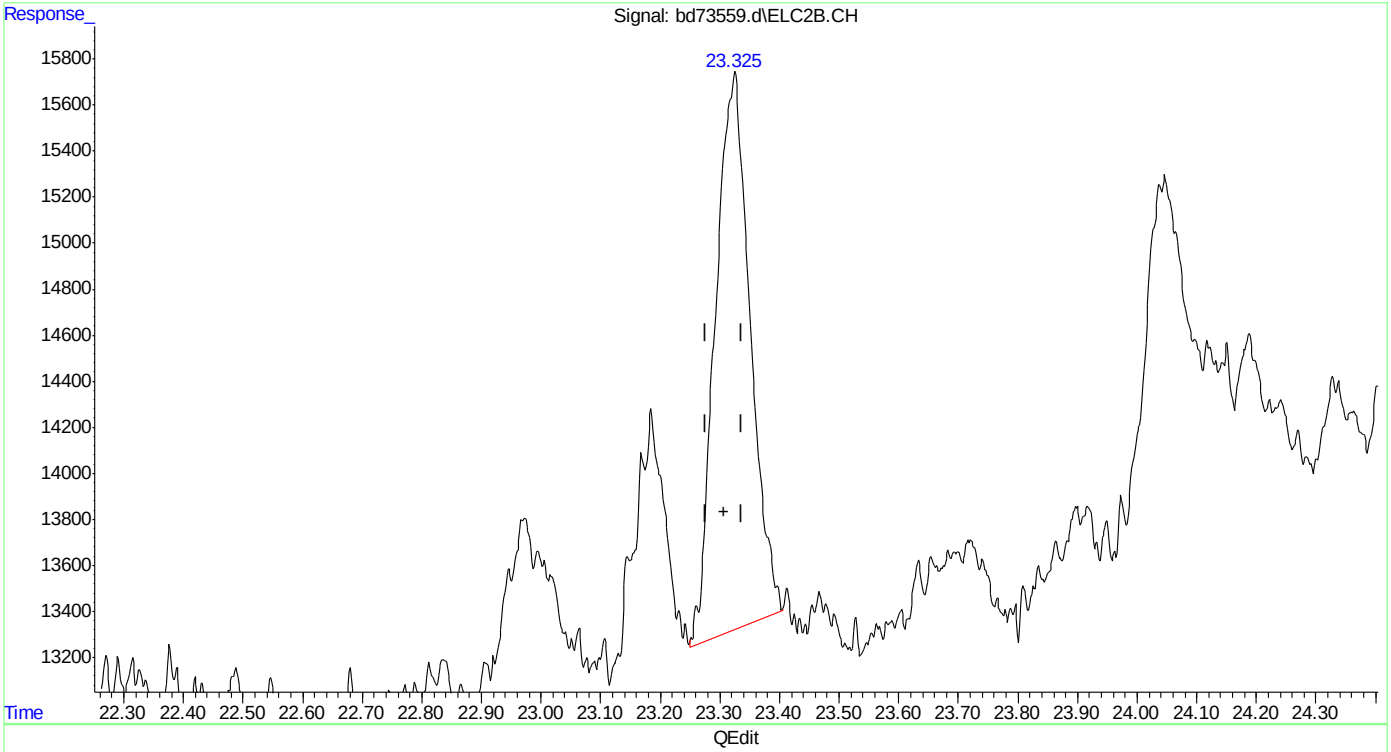
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73559.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:52:53
Operator : danielf
Sample : mc45897-6,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
23.325min 0.197 ppb
response 97994

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:53:37 2016

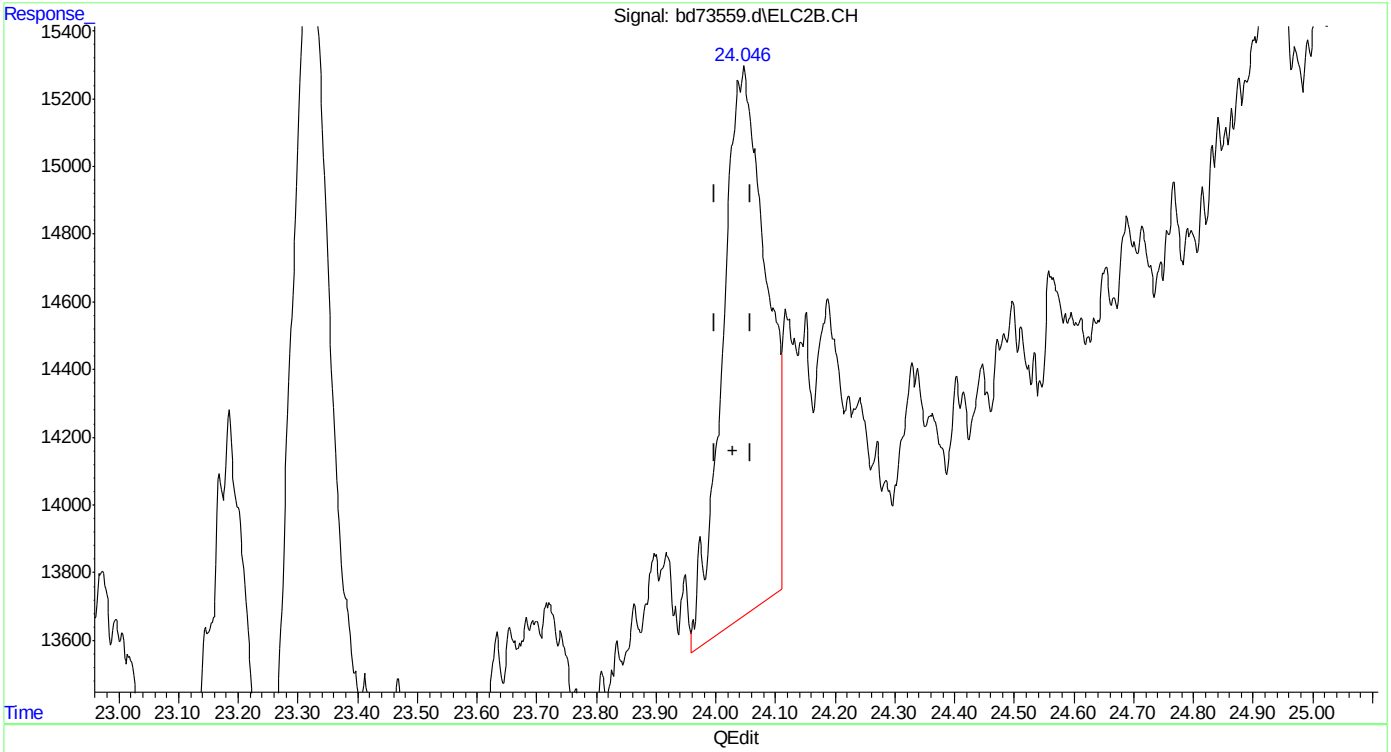
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73559.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:52:53
Operator : danielf
Sample : mc45897-6,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
24.047min 0.189 ppb
response 82102

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:53:41 2016

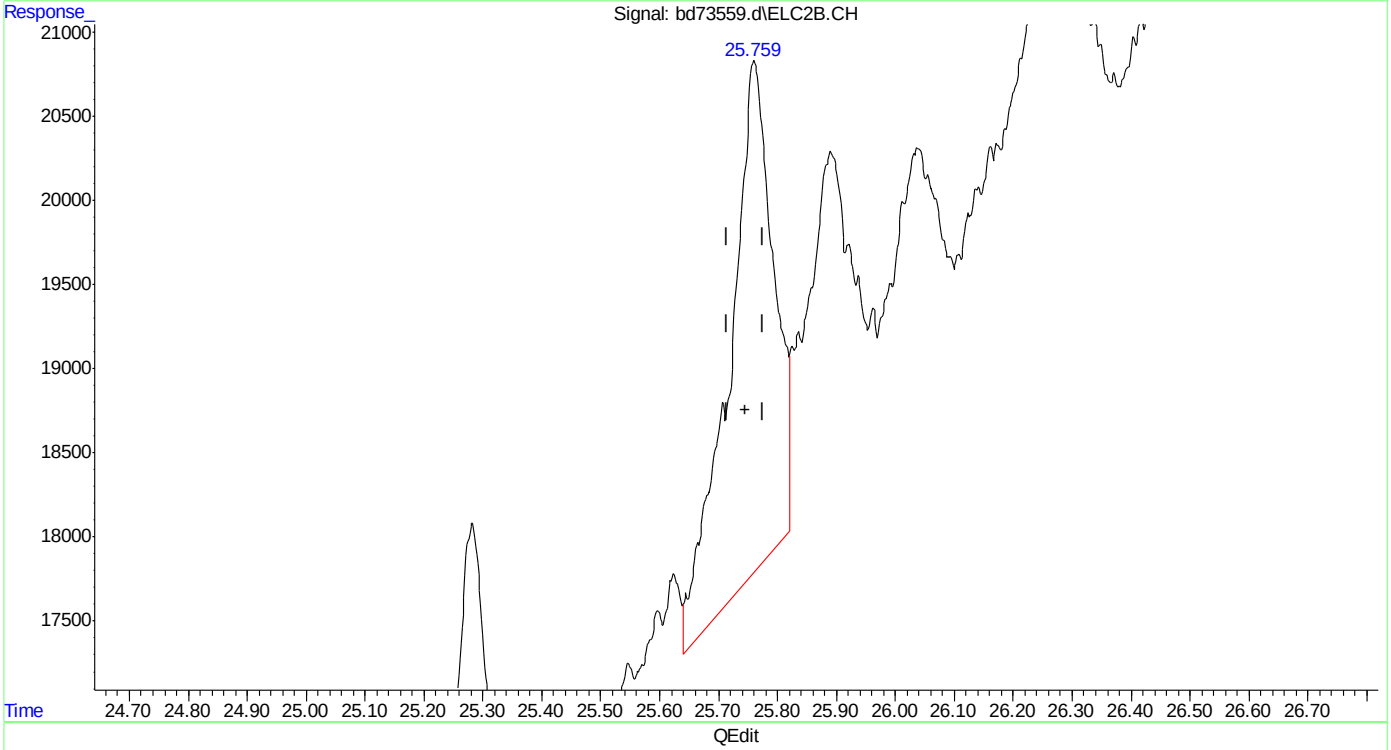
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73559.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:52:53
Operator : danielf
Sample : mc45897-6,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.760min 0.323 ppb
response 158974

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:53:47 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73559.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:52:53
Operator : danielf
Sample : mc45897-6,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(24) naphthalene #2
28.769min 0.734 ppb
response 63814

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:53:52 2016

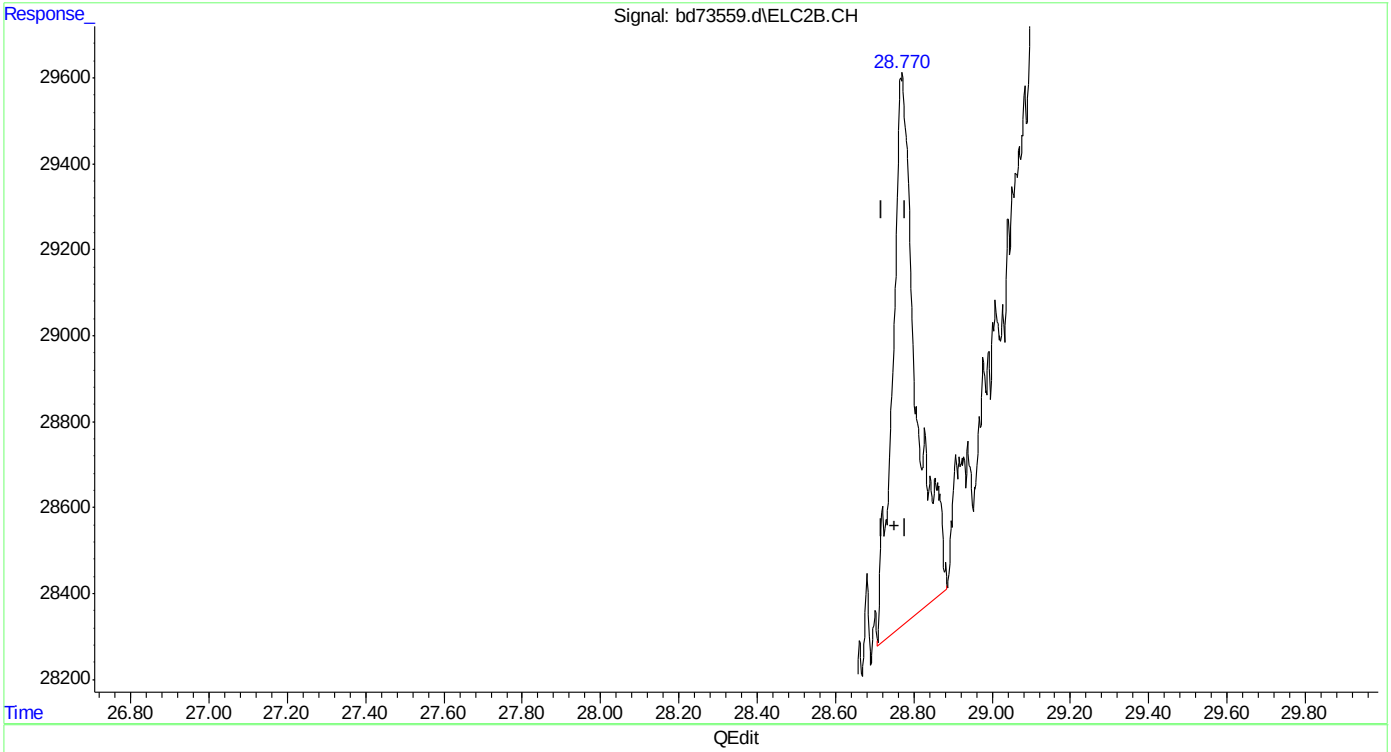
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73559.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 18:52:53
Operator : danielf
Sample : mc45897-6,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:00:52 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.770min 0.705 ppb m
response 53212

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:54:03 2016

SGS ACCUTEST MC45897

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73545.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:01:25
Operator : danielf
Sample : mb,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:33:33 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.426	33578769	49.351	ppb	m
Spiked Amount 50.000		Recovery = 98.70%			
6) s 2,3,4-trifluorotoluene	21.243	27315963	52.429	ppb	m
Spiked Amount 50.000		Recovery = 104.86%			
16) s fluorobenzene #2	16.426	14032963	41.364	ppb	m
Spiked Amount 50.000		Recovery = 82.73%			
18) s 2,3,4-trifluorotoluen...	21.243	8405702	42.700	ppb	
Spiked Amount 50.000		Recovery = 85.40%			
Target Compounds					
1) h rt5.5-7	7.470	1600907	2.596	ppb	
2) h rt7/10	9.920	3637462	5.898	ppb	
3) h rt10/13	15.200	5762574	9.344	ppb	
8) h rt20/25	22.840	11996991	14.992	ppb	
19) ethylbenzene #2	23.179	160383	0.386	ppb	
20) m,p-xylene #2	23.319	409196	0.821	ppb	
21) o-xylene #2	24.040	176916	0.407	ppb	
24) naphthalene #2	28.769f	87262	0.798	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	11211745	22.804	ppb	

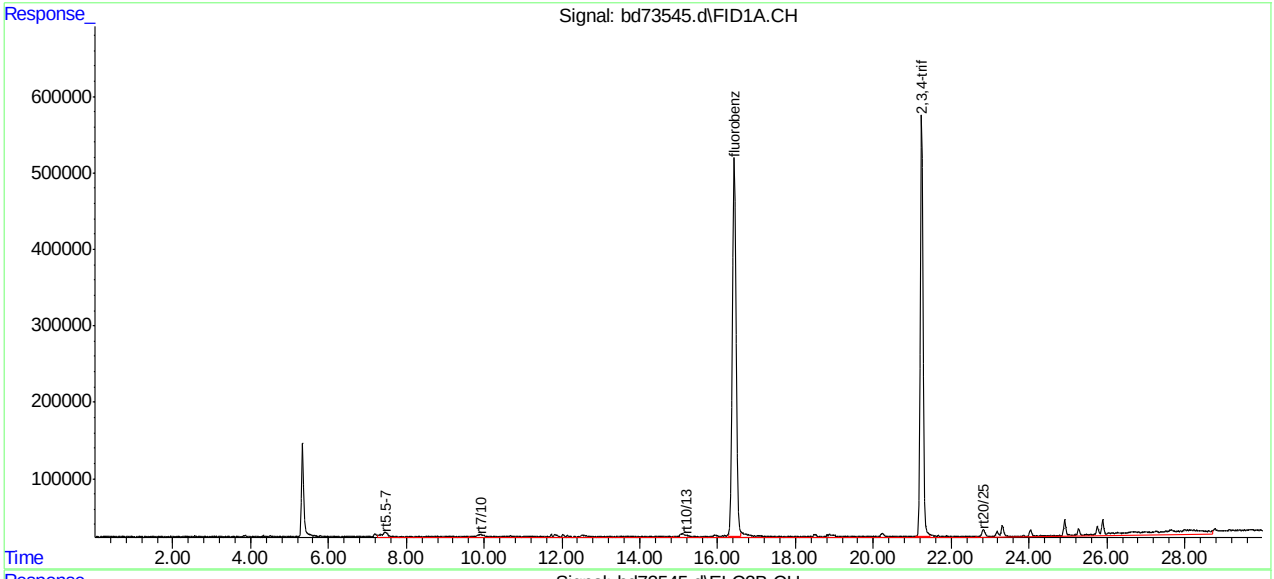
(f)=RT Delta > 1/2 Window (m)=manual int.

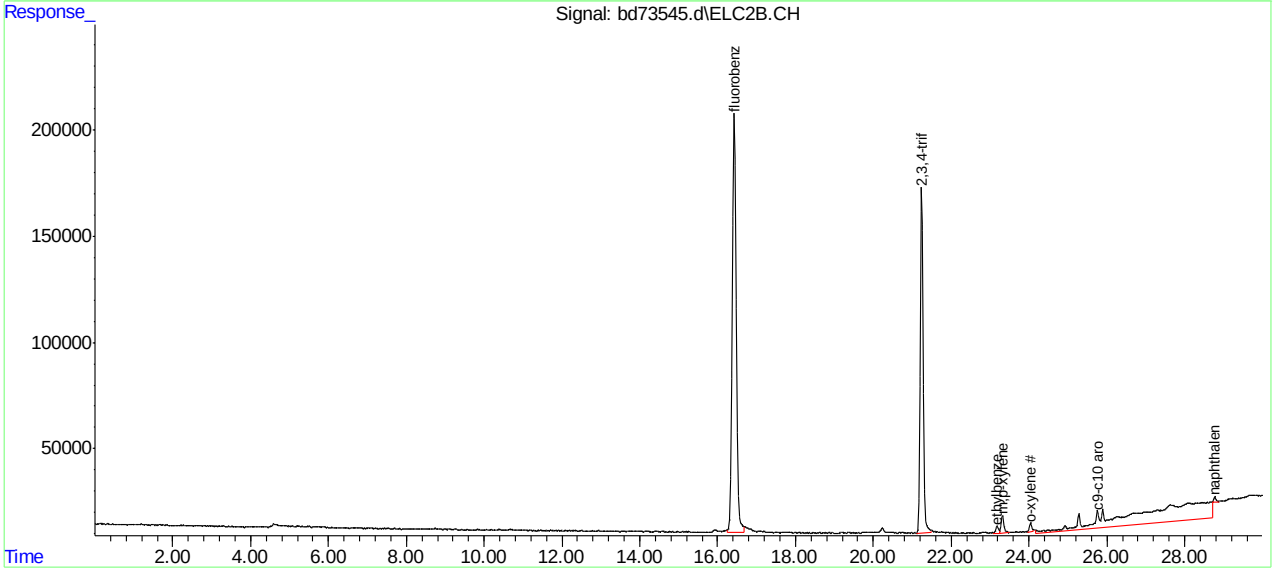
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73545.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:01:25
Operator : danielf
Sample : mb,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

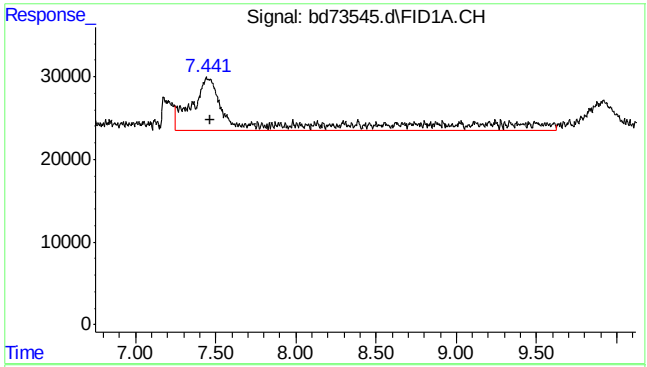
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:33:33 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



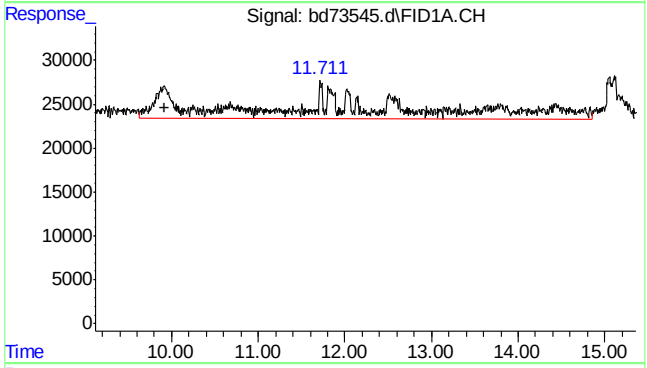


SGS ACCUTEST MC45897



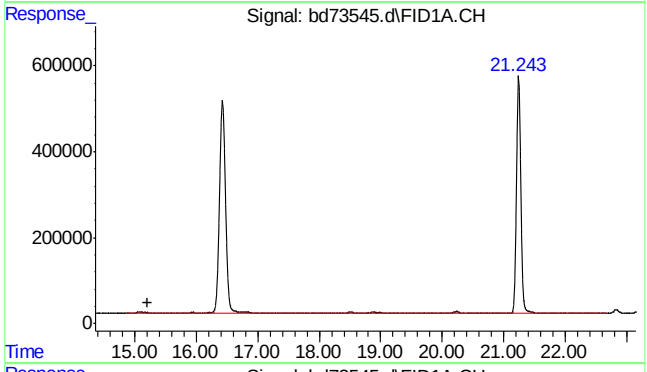
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 1600907
Conc: 2.60 ppb



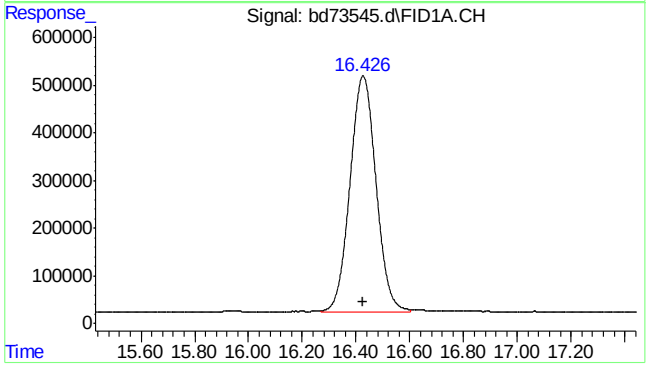
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 3637462
Conc: 5.90 ppb



#3 rt10/13

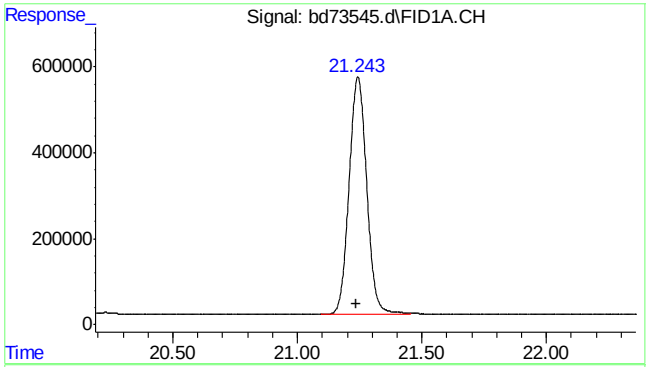
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 5762574
Conc: 9.34 ppb



#4 fluorobenzene

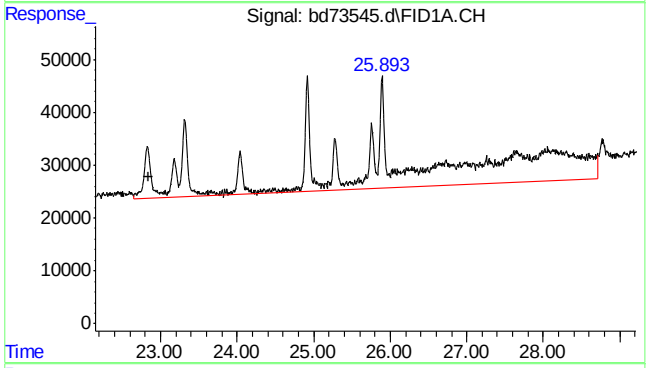
R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 33578769
Conc: 49.35 ppb m

SGS ACCUTEST MC45897



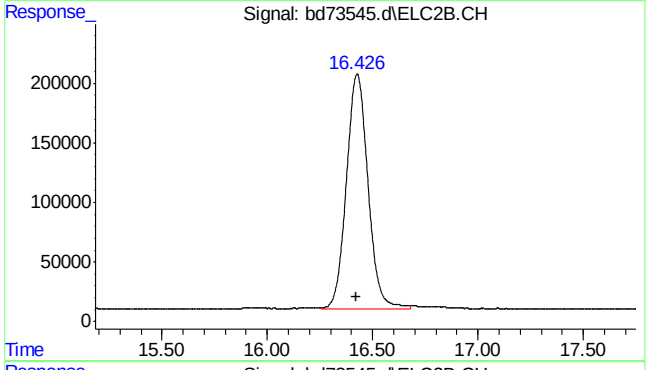
#6 2,3,4-trifluorotoluene

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 27315963
Conc: 52.43 ppb m



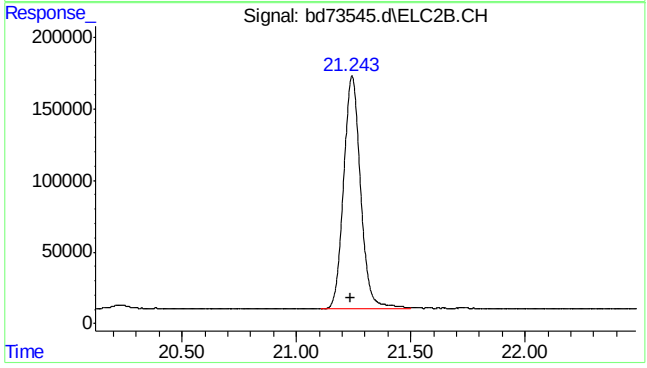
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 11996991
Conc: 14.99 ppb



#16 fluorobenzene #2

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 14032963
Conc: 41.36 ppb m



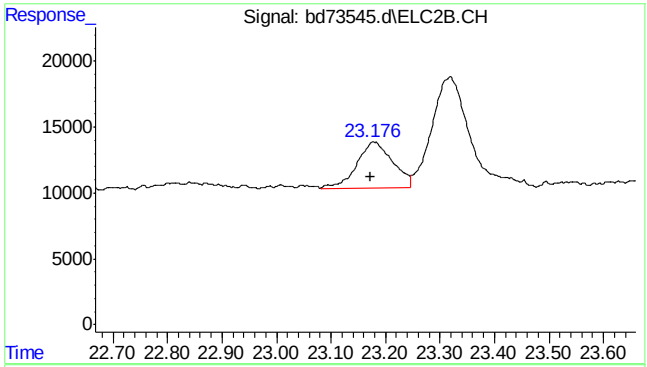
#18 2,3,4-trifluorotoluene #2

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 8405702
Conc: 42.70 ppb

7.2.1

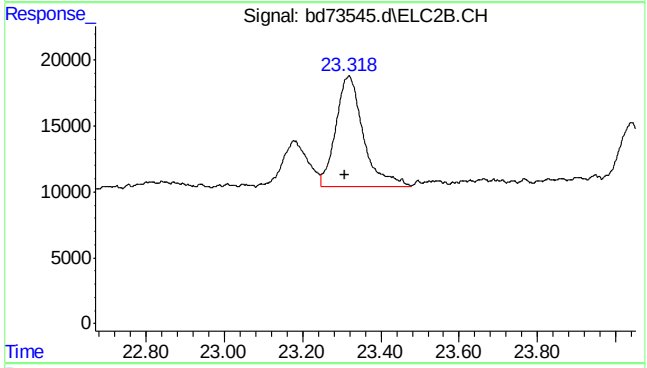
7

SGS ACCUTEST MC45897



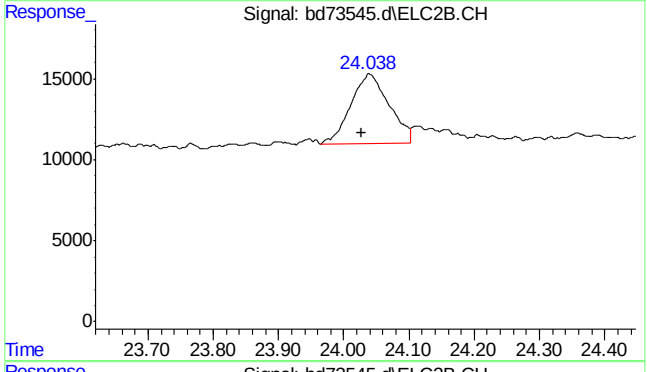
#19 ethylbenzene #2

R.T.: 23.179 min
Delta R.T.: 0.007 min
Response: 160383
Conc: 0.39 ppb



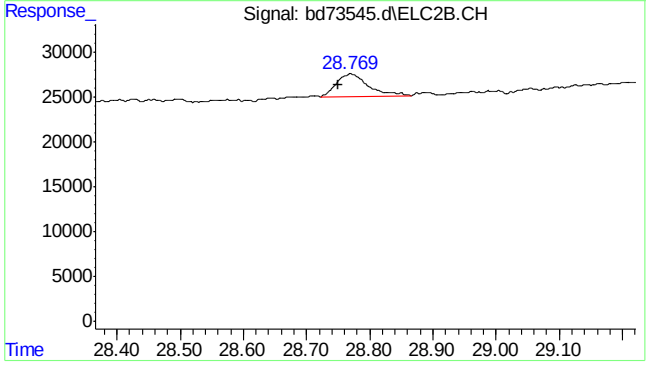
#20 m,p-xylene #2

R.T.: 23.319 min
Delta R.T.: 0.012 min
Response: 409196
Conc: 0.82 ppb



#21 o-xylene #2

R.T.: 24.040 min
Delta R.T.: 0.012 min
Response: 176916
Conc: 0.41 ppb



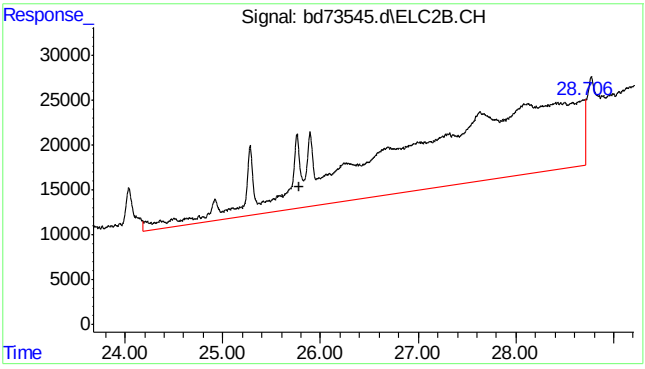
#24 naphthalene #2

R.T.: 28.769 min
Delta R.T.: 0.019 min
Response: 87262
Conc: 0.80 ppb m

7.2.1

7

SGS ACCUTEST MC45897



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 11211745
Conc: 22.80 ppb

7.2.1

7

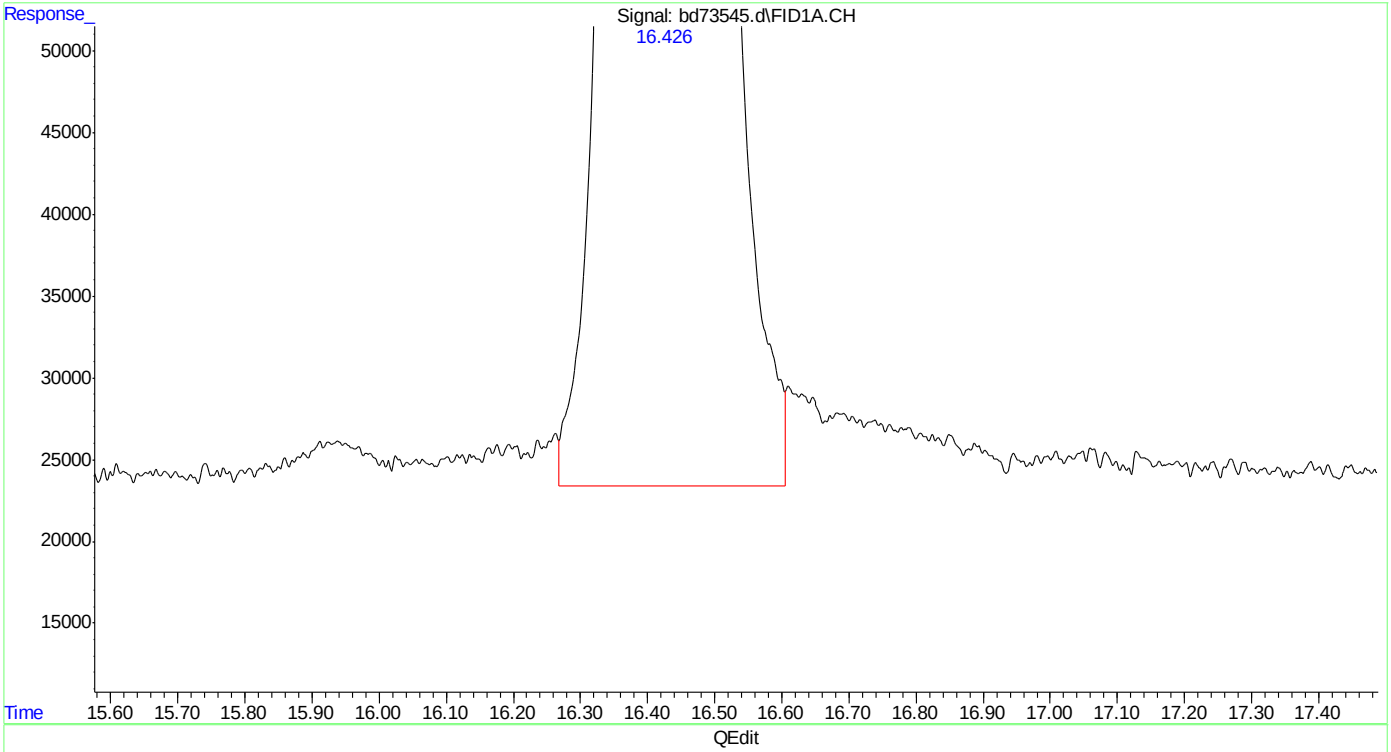
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73545.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:01:25
Operator  : danielf
Sample    : mb,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:32:06 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(4) fluorobenzene (s)

16.426min 49.565 ppb

response 33724132

(+) = Expected Retention Time

bd160513vph.M Fri May 13 10:32:20 2016

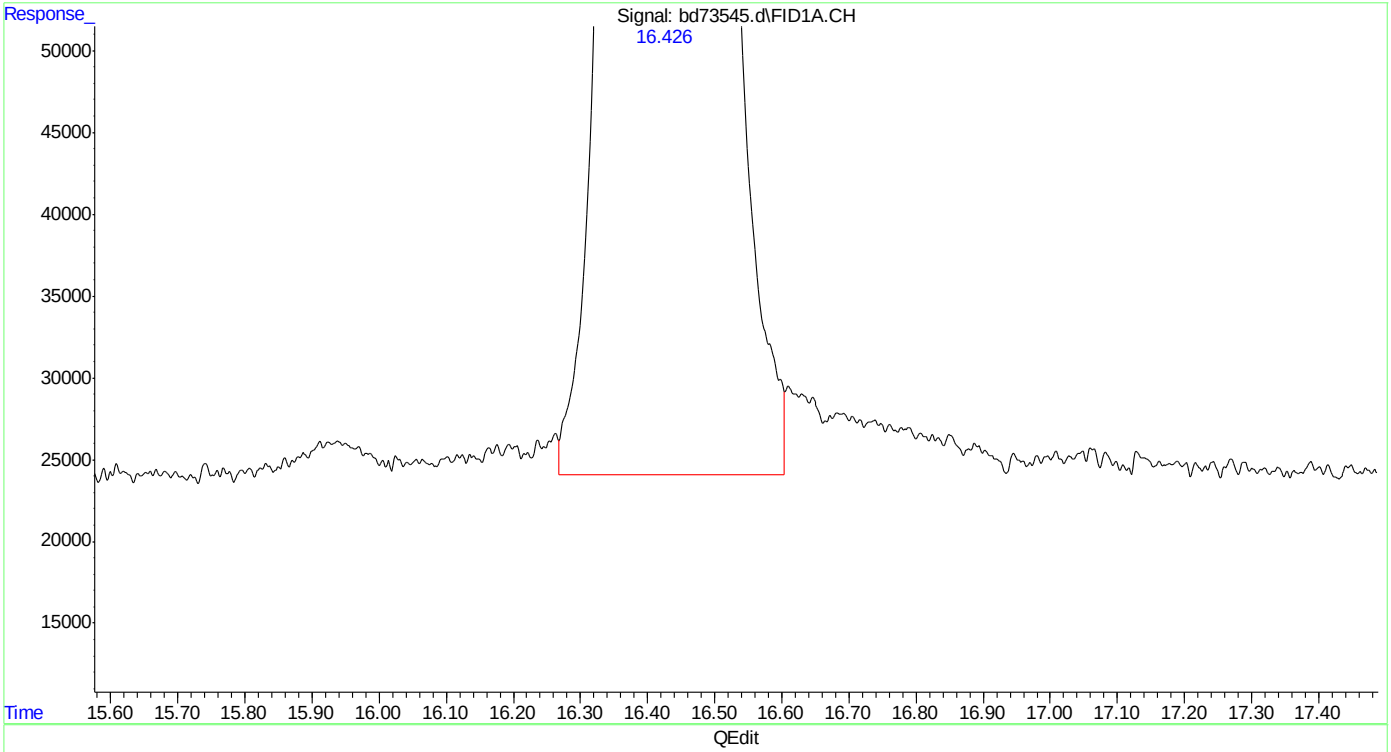
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73545.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:01:25
Operator  : danielf
Sample    : mb,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:32:06 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(4) fluorobenzene (s)

16.426min 49.351 ppb m

response 33578769

(+) = Expected Retention Time

bd160513vph.M Fri May 13 10:32:28 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73545.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:01:25
Operator  : danielf
Sample    : mb,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:32:06 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

(6) 2,3,4-trifluorotoluene (s)

21.243min 52.571 ppb

response 27389819

(+) = Expected Retention Time

bd160513vph.M Fri May 13 10:32:33 2016

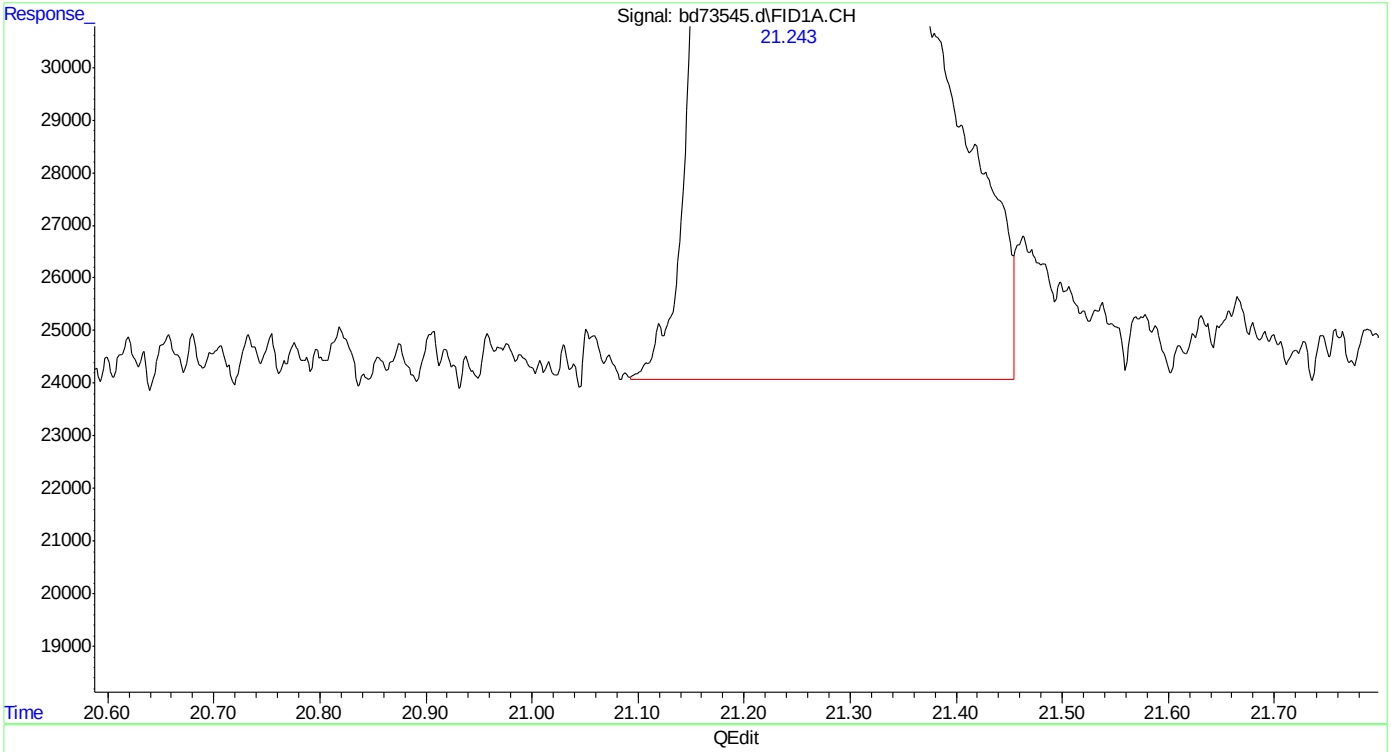
Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73545.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:01:25
Operator  : danielf
Sample    : mb,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:32:06 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(6) 2,3,4-trifluorotoluene (s)

21.243min 52.429 ppb m

response 27315963

(+) = Expected Retention Time

bd160513vph.M Fri May 13 10:32:38 2016

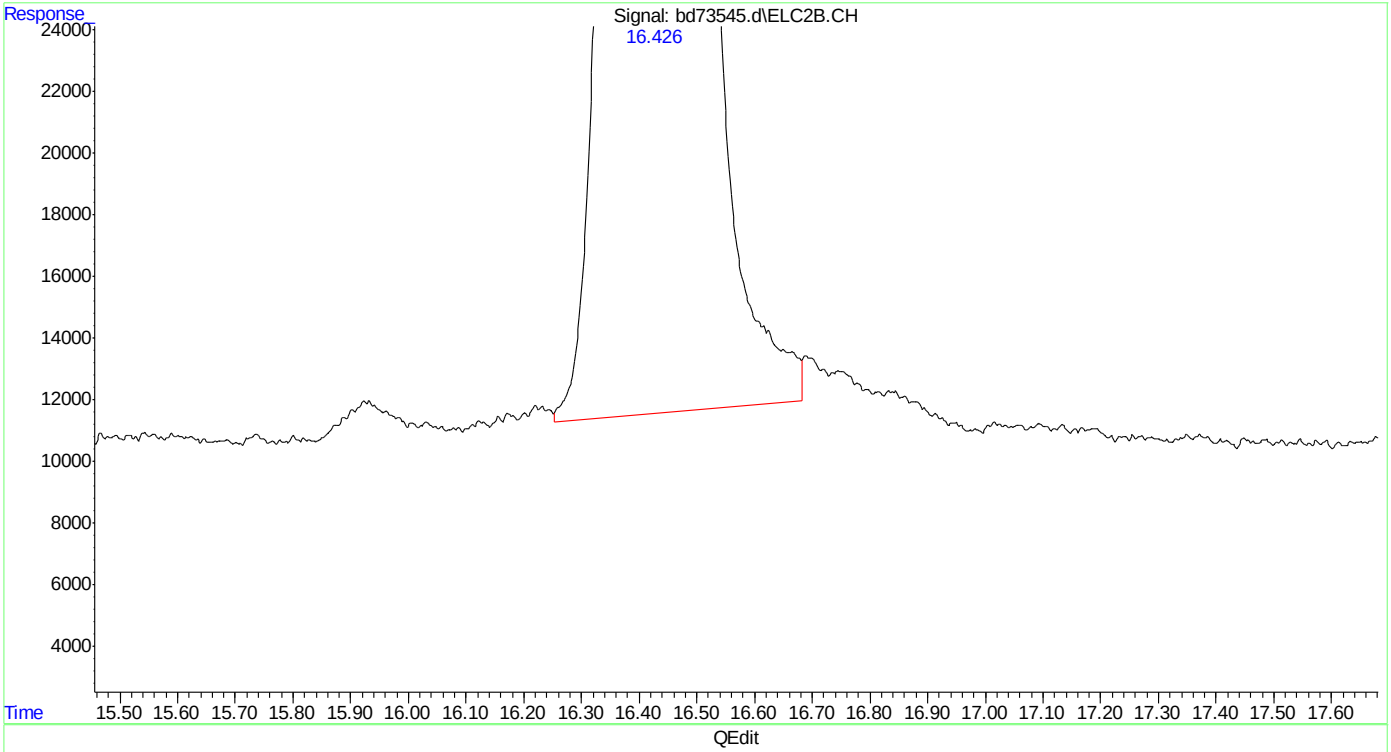
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73545.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:01:25
Operator  : danielf
Sample    : mb,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:32:06 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(16) fluorobenzene #2 (s)

16.427min 40.811 ppb

response 13845123

(+) = Expected Retention Time

bd160513vph.M Fri May 13 10:32:57 2016

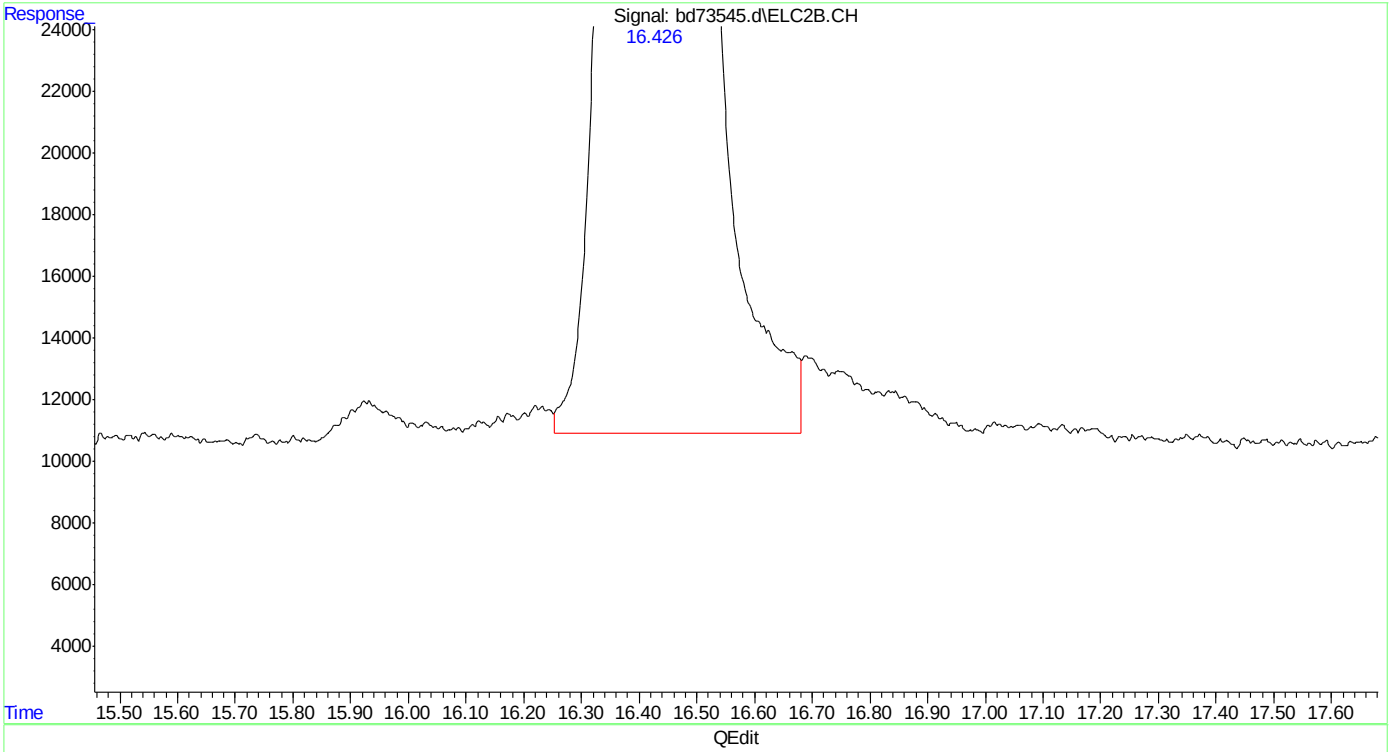
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73545.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:01:25
Operator  : danielf
Sample    : mb,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:32:06 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(16) fluorobenzene #2 (s)

16.426min 41.364 ppb m

response 14032963

(+) = Expected Retention Time

bd160513vph.M Fri May 13 10:33:03 2016

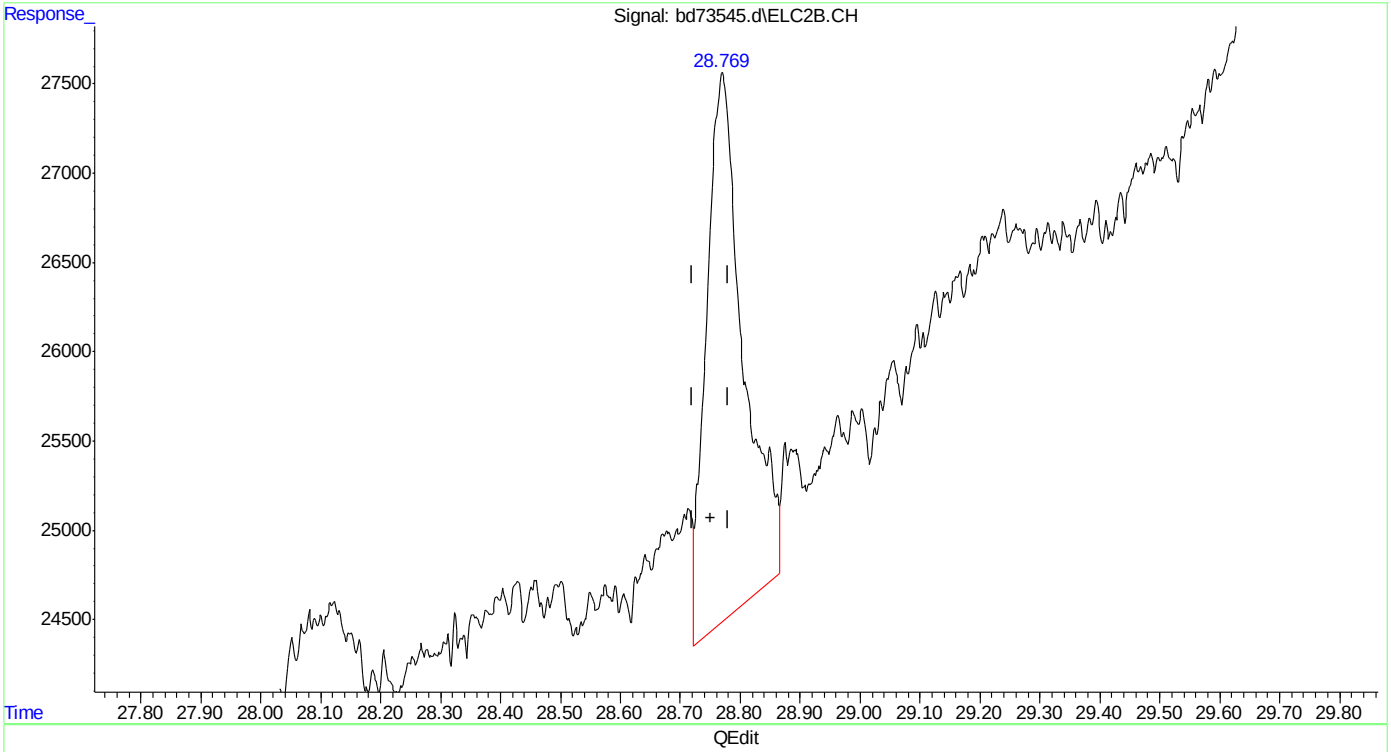
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73545.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:01:25
Operator  : danielf
Sample    : mb,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:32:06 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.770min 0.920 ppb

response 131557

(+) = Expected Retention Time

bd160513vph.M Fri May 13 10:33:27 2016

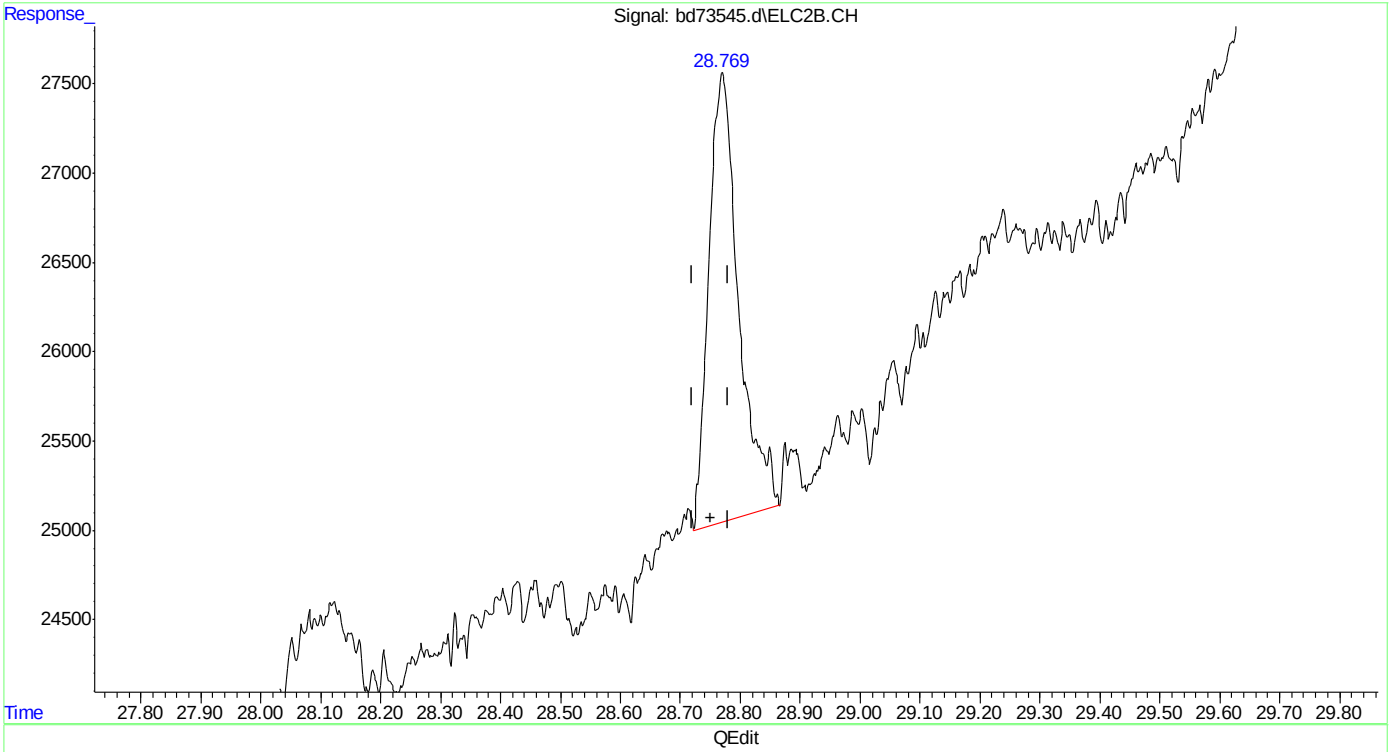
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73545.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:01:25
Operator : danielf
Sample : mb,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:32:06 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.769min 0.798 ppb m
response 87262

(+) = Expected Retention Time
bd160513vph.M Fri May 13 10:33:35 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73577d.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 11:44:52
Operator : tonyf
Sample : mb1,w,vmavph,00 (Sig #1); mb,w,vmavph,00 (Sig #2)
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 12:27:54 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.426	33073155	48.608 ppb	
Spiked Amount 50.000		Recovery	= 97.22%	
6) s 2,3,4-trifluorotoluene	21.243	26618288	51.090 ppb	
Spiked Amount 50.000		Recovery	= 102.18%	
16) s fluorobenzene #2	16.426	13822085	40.743 ppb	
Spiked Amount 50.000		Recovery	= 81.49%	
18) s 2,3,4-trifluorotoluen...	21.243	8292207	42.123 ppb	
Spiked Amount 50.000		Recovery	= 84.25%	
Target Compounds				
1) h rt5.5-7	7.470	242289	0.393 ppb	m
2) h rt7/10	9.920	354225	0.574 ppb	m
3) h rt10/13	15.200	1354077	2.196 ppb	m
8) h rt20/25	22.840	9784975	12.228 ppb	m
19) ethylbenzene #2	23.185	149053	0.359 ppb	
20) m,p-xylene #2	23.318	380632	0.764 ppb	m
21) o-xylene #2	24.040	203202	0.467 ppb	m
23) 1,2,4-trimethylbenzen...	25.756	229465	0.467 ppb	m
24) naphthalene #2	28.767f	156675	0.989 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	8132935	16.542 ppb	m

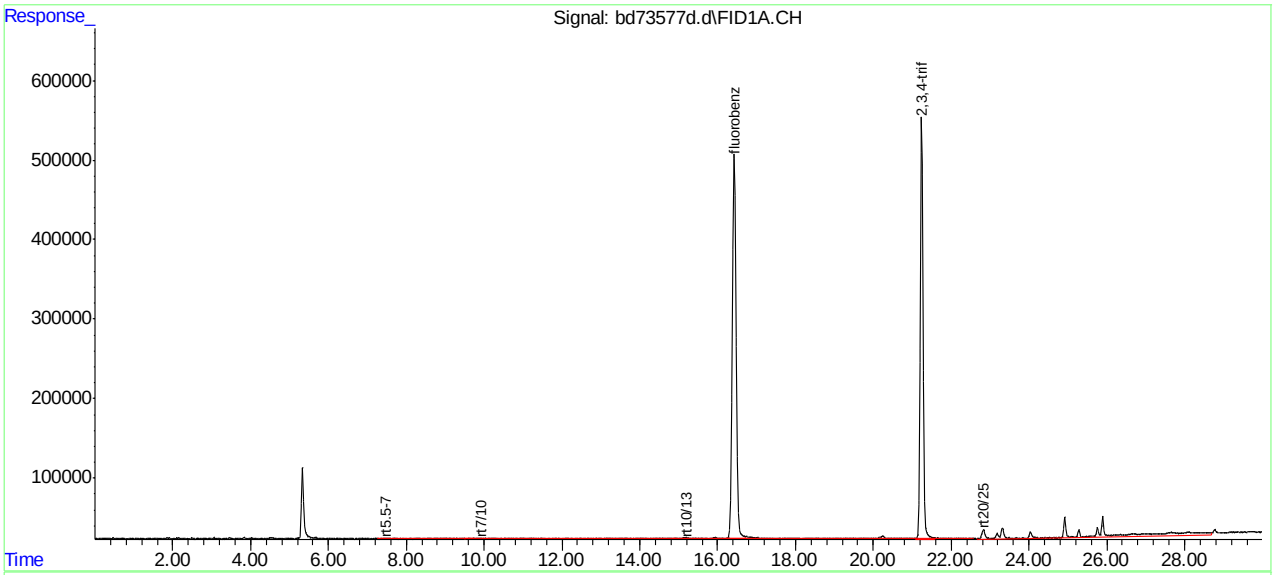
(f)=RT Delta > 1/2 Window (m)=manual int.

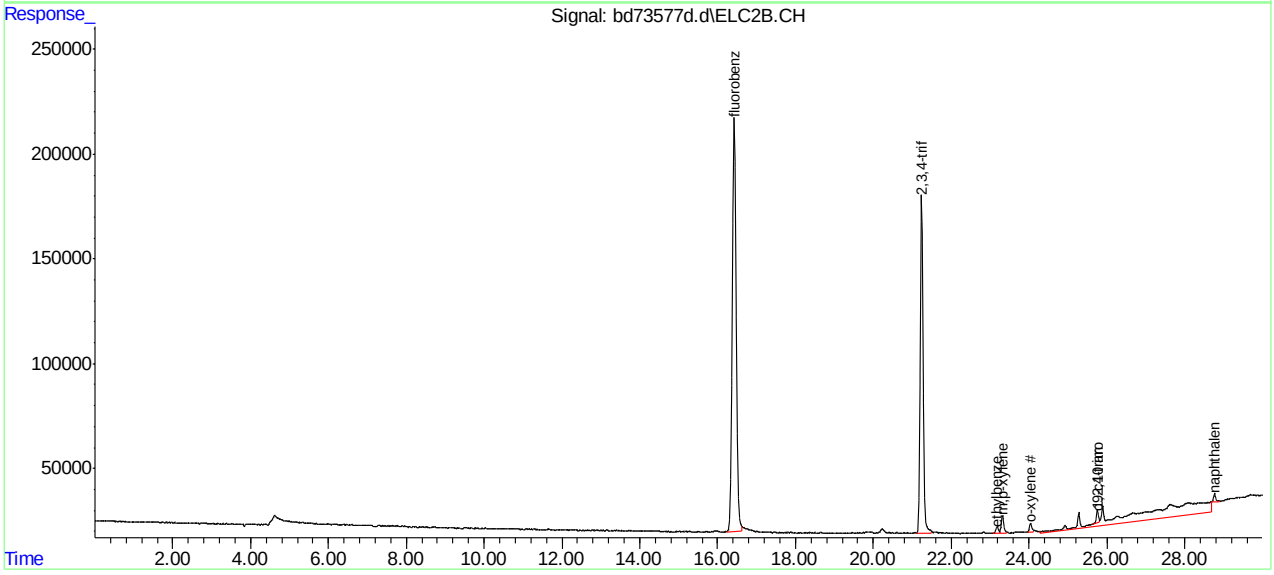
Quantitation Report (QT Reviewed)

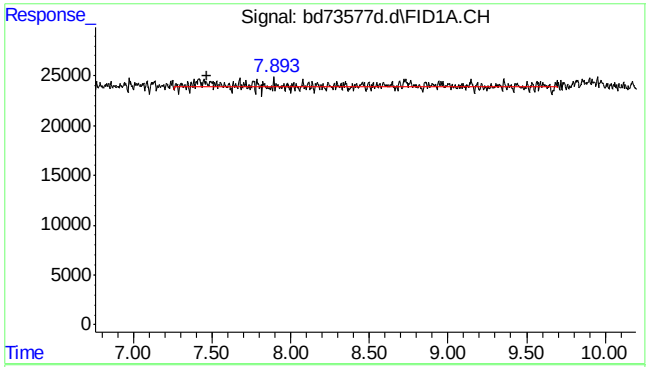
Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73577d.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 11:44:52
Operator : tonyf
Sample : mb1,w,vmavph,00 (Sig #1); mb,w,vmavph,00 (Sig #2)
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 12:27:54 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

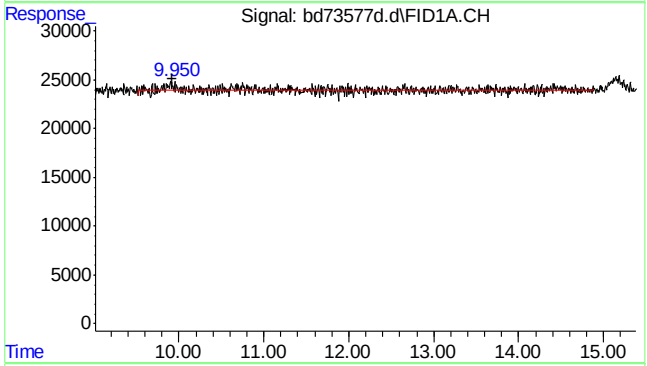






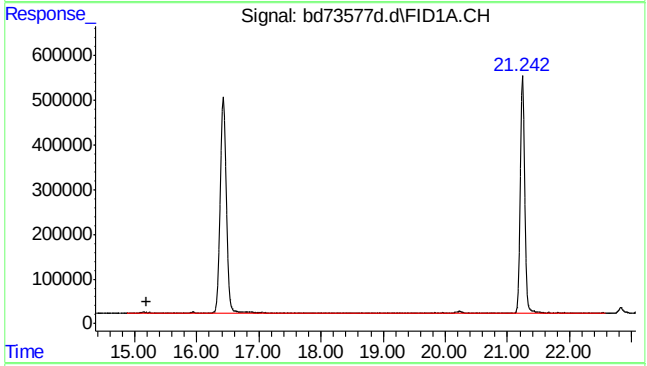
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 242289
Conc: 0.39 ppb m



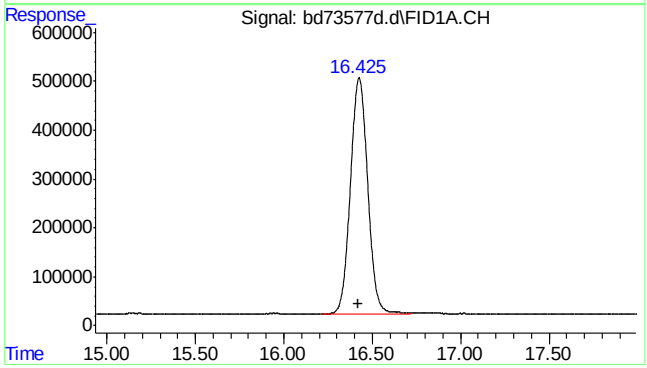
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 354225
Conc: 0.57 ppb m



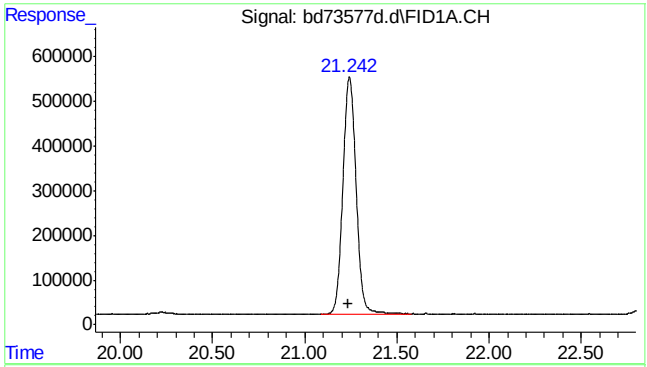
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1354077
Conc: 2.20 ppb m



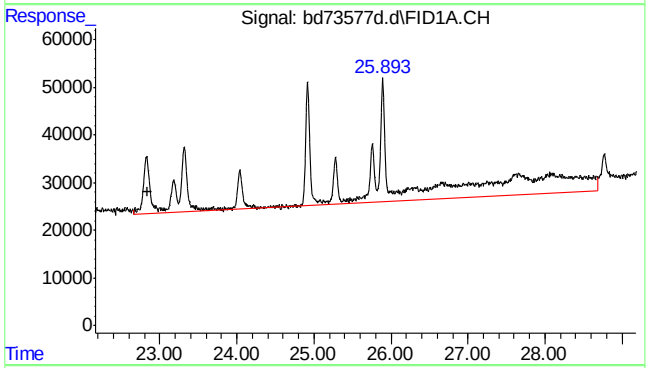
#4 fluorobenzene

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 33073155
Conc: 48.61 ppb



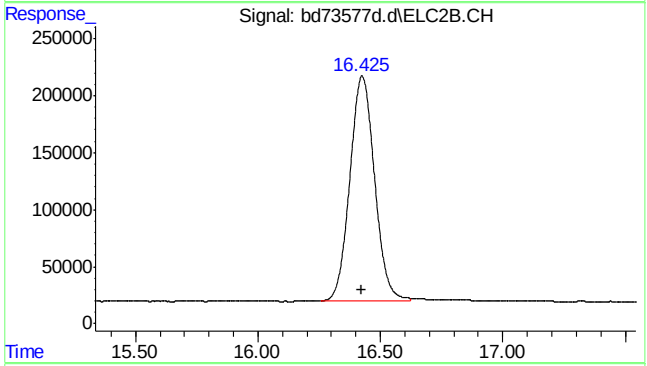
#6 2,3,4-trifluorotoluene

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 26618288
Conc: 51.09 ppb



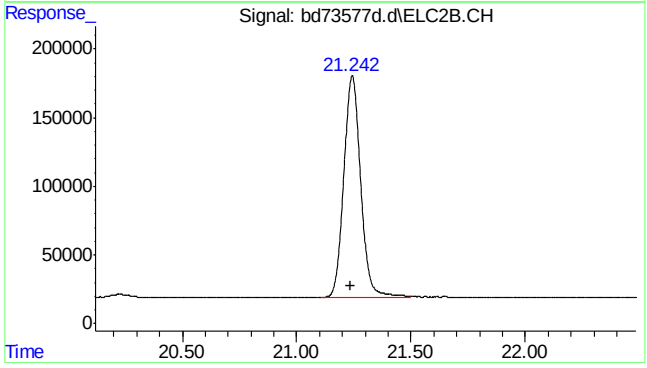
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 9784975
Conc: 12.23 ppb m



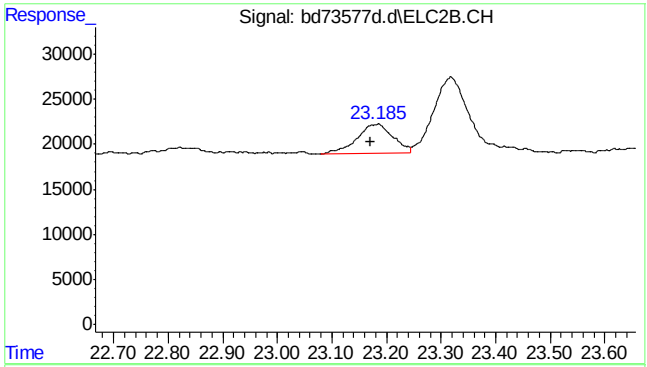
#16 fluorobenzene #2

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 13822085
Conc: 40.74 ppb



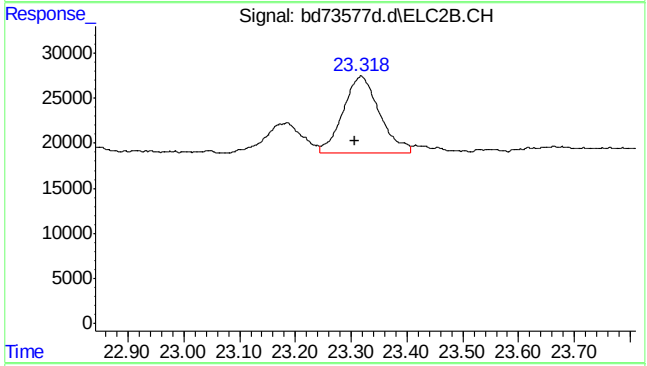
#18 2,3,4-trifluorotoluene #2

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 8292207
Conc: 42.12 ppb



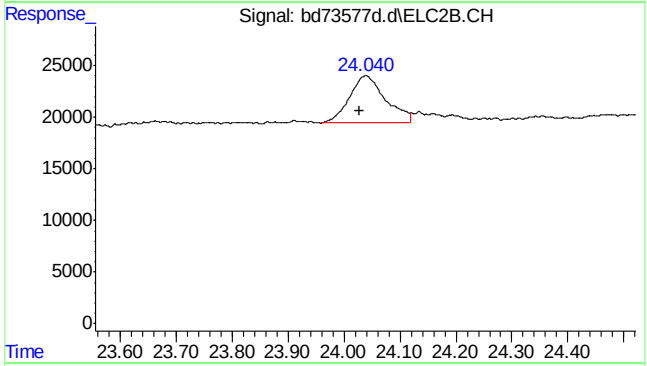
#19 ethylbenzene #2

R.T.: 23.185 min
Delta R.T.: 0.013 min
Response: 149053
Conc: 0.36 ppb



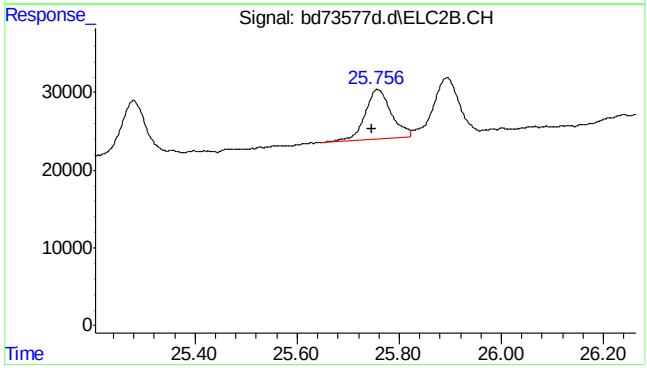
#20 m,p-xylene #2

R.T.: 23.318 min
Delta R.T.: 0.011 min
Response: 380632
Conc: 0.76 ppb m



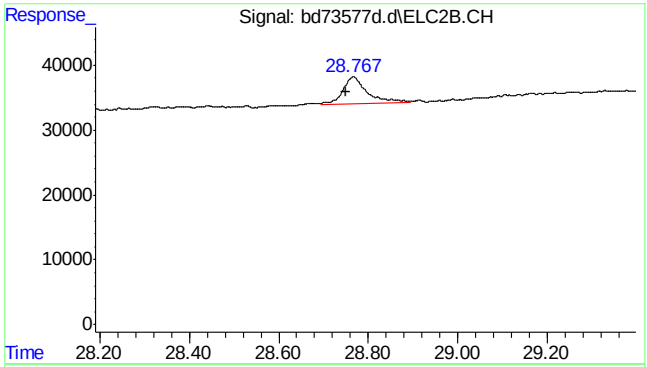
#21 o-xylene #2

R.T.: 24.040 min
Delta R.T.: 0.012 min
Response: 203202
Conc: 0.47 ppb m



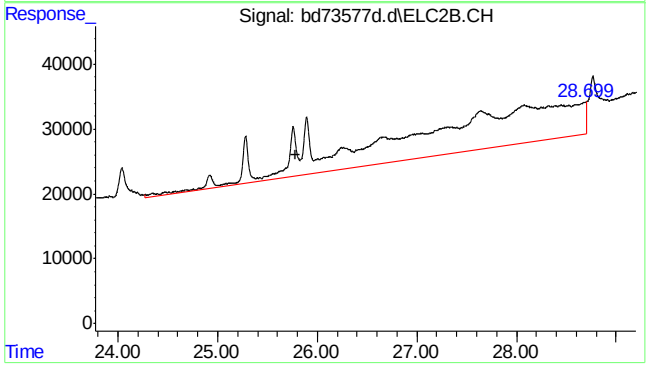
#23 1,2,4-trimethylbenzene #2

R.T.: 25.756 min
Delta R.T.: 0.010 min
Response: 229465
Conc: 0.47 ppb m



#24 naphthalene #2

R.T.: 28.767 min
Delta R.T.: 0.017 min
Response: 156675
Conc: 0.99 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 8132935
Conc: 16.54 ppb m

7.2.2

7

SGS ACCUTEST MC45897

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:15:32 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.424	35582951	52.297 ppb	m
Spiked Amount 50.000		Recovery	= 104.59%	
6) s 2,3,4-trifluorotoluene	21.242	27957929	53.661 ppb	
Spiked Amount 50.000		Recovery	= 107.32%	
16) s fluorobenzene #2	16.423	14992040	44.191 ppb	m
Spiked Amount 50.000		Recovery	= 88.38%	
18) s 2,3,4-trifluorotoluen...	21.240	8472618	43.040 ppb	m
Spiked Amount 50.000		Recovery	= 86.08%	
Target Compounds				
1) h rt5.5-7	7.470	27249593	44.183 ppb	m
2) h rt7/10	9.920	31932366	51.776 ppb	m
3) h rt10/13	15.200	28435684	46.106 ppb	m
8) h rt20/25	22.840	32502530	40.617 ppb	m
10) h decane	24.930	31486643	39.347 ppb	m
11) h butylcyclohexane	25.908	36181290	45.214 ppb	m
14) mtbe #2	10.681	7638442	49.565 ppb	m
15) benzene #2	15.931	22731482	47.004 ppb	
17) toluene #2	20.224	21173343	46.769 ppb	
19) ethylbenzene #2	23.177	18744629	45.167 ppb	
20) m,p-xylene #2	23.312	45323127	90.929 ppb	m
21) o-xylene #2	24.034	19283736	44.352 ppb	m
22) t 1,3,5-trimethylbenzen...	25.277	27315716	40.707 ppb	
23) 1,2,4-trimethylbenzen...	25.755	21415716	43.539 ppb	
24) naphthalene #2	28.762	17063027	47.351 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21413798	43.555 ppb	m

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

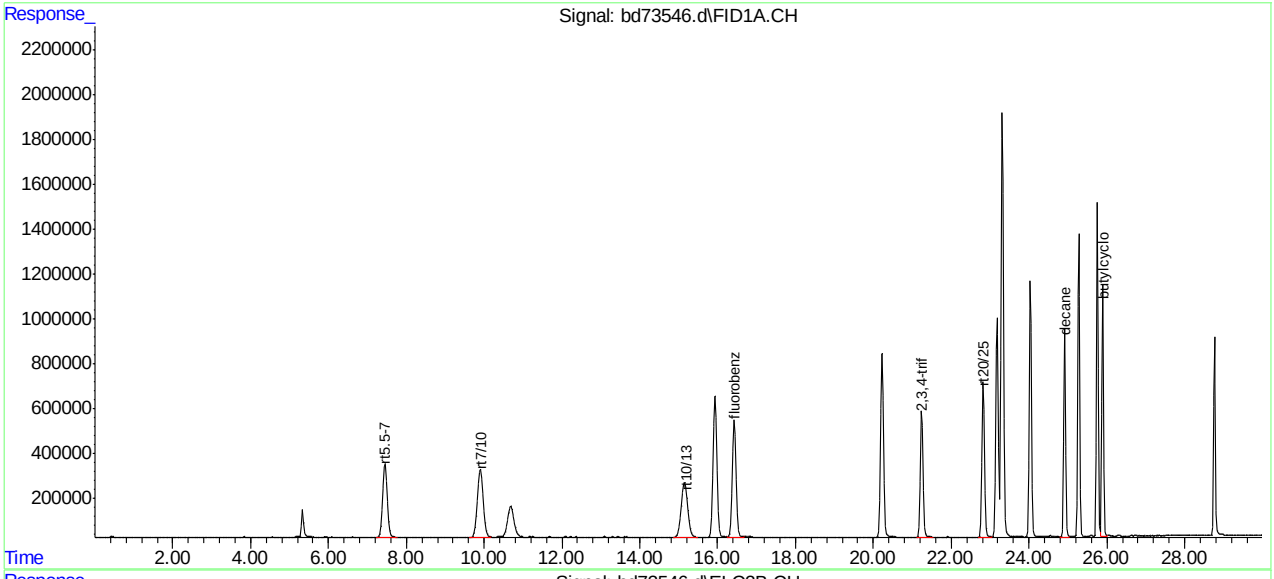
SGS ACCUTEST MC45897

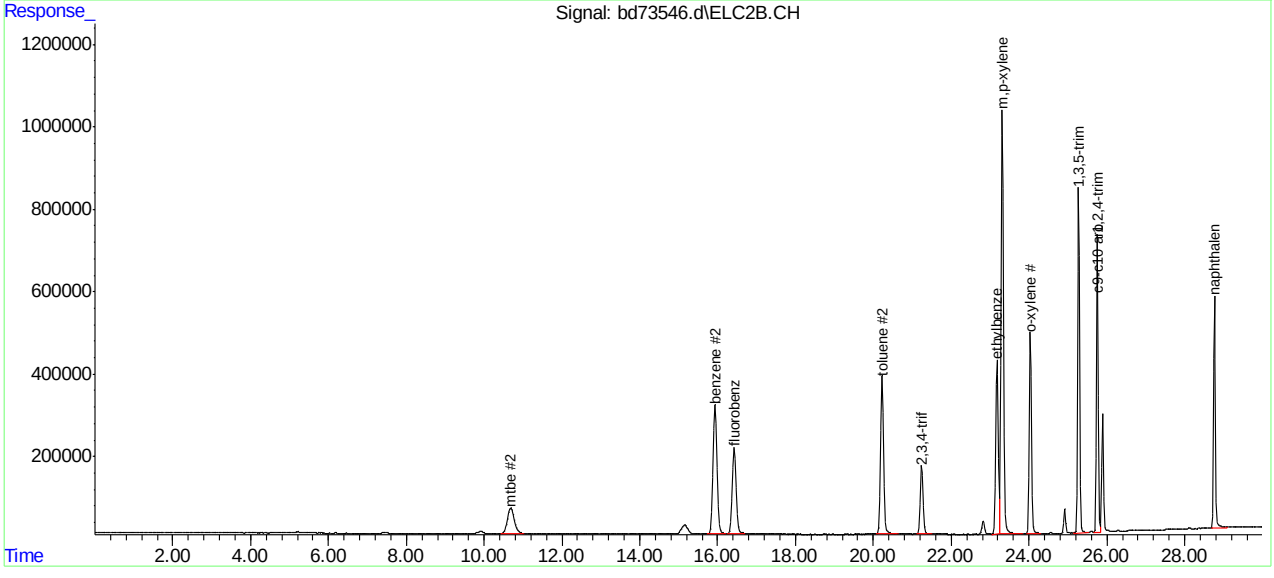
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

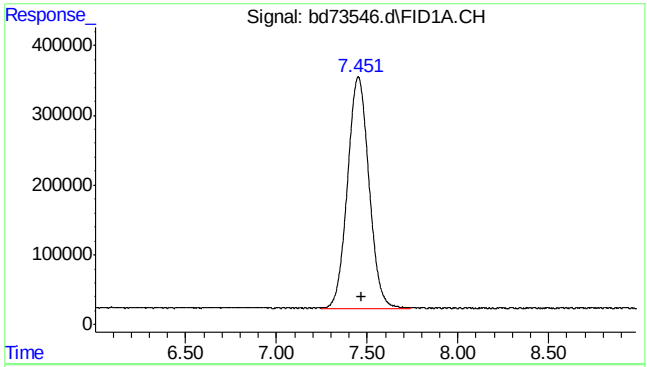
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:15:32 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



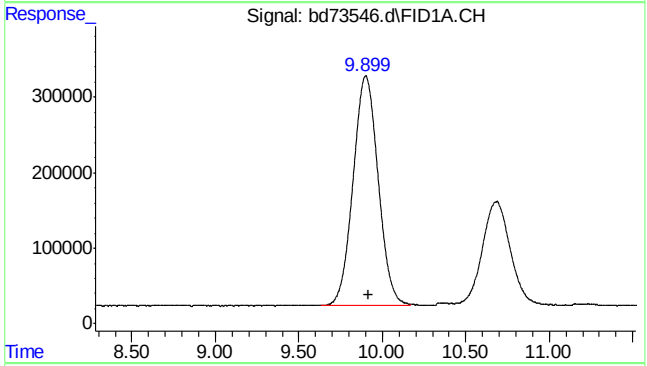


SGS ACCUTEST MC45897



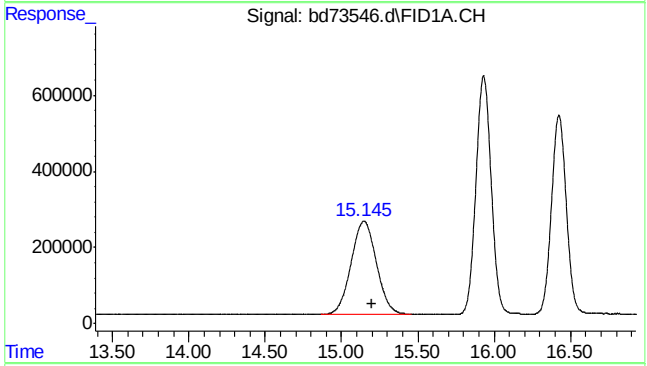
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 27249593
Conc: 44.18 ppb m



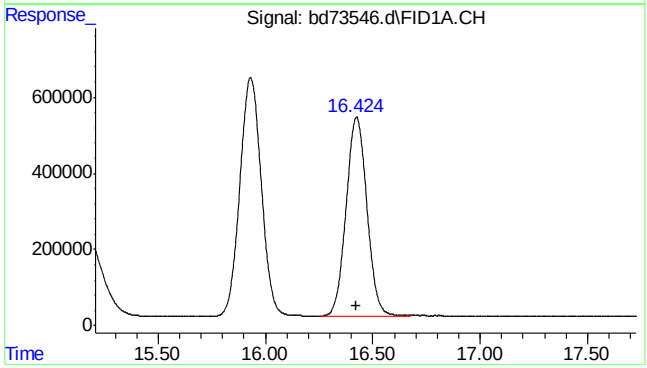
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 31932366
Conc: 51.78 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 28435684
Conc: 46.11 ppb m



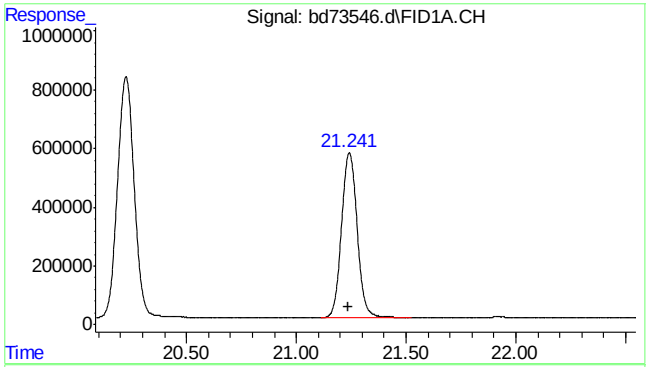
#4 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 35582951
Conc: 52.30 ppb m

7.3.1

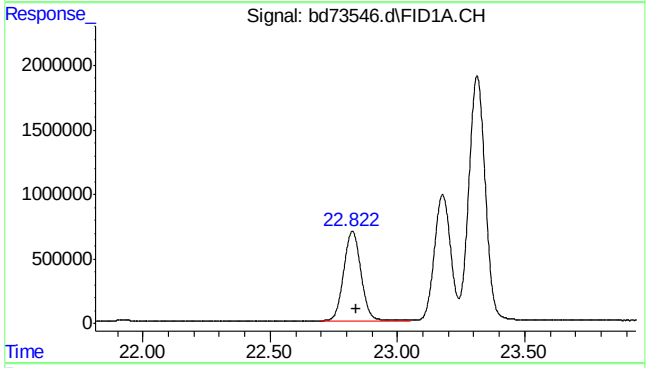
7

SGS ACCUTEST MC45897



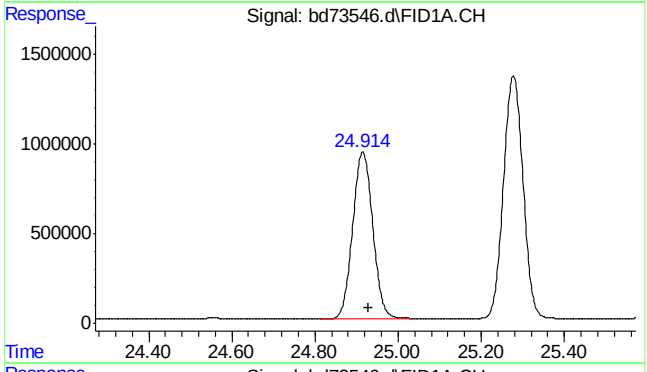
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 27957929
Conc: 53.66 ppb



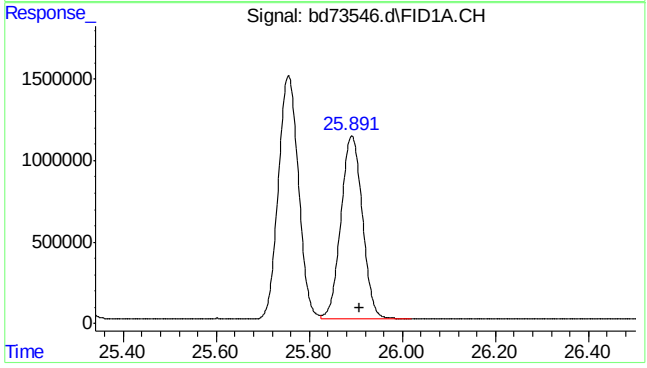
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 32502530
Conc: 40.62 ppb m



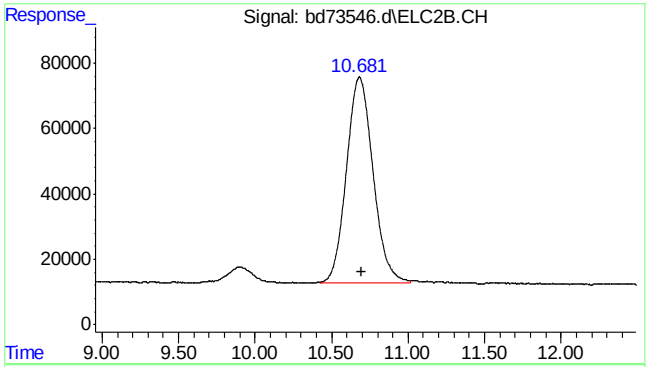
#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 31486643
Conc: 39.35 ppb m



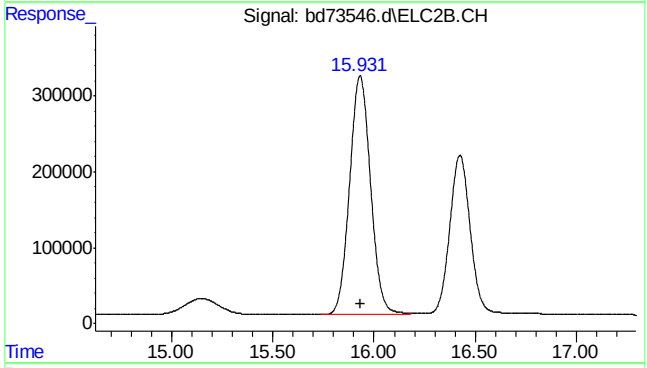
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 36181290
Conc: 45.21 ppb m



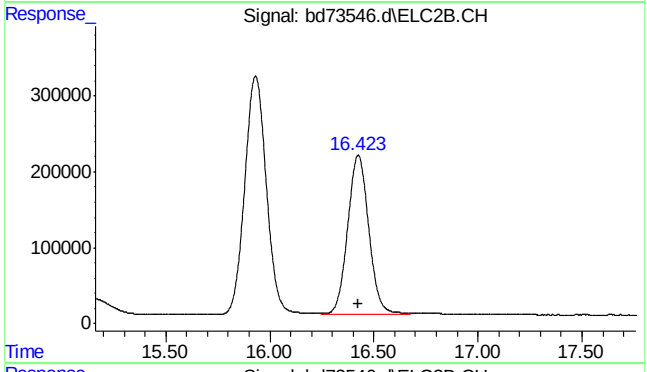
#14 mtbe #2

R.T.: 10.681 min
Delta R.T.: -0.015 min
Response: 7638442
Conc: 49.57 ppb m



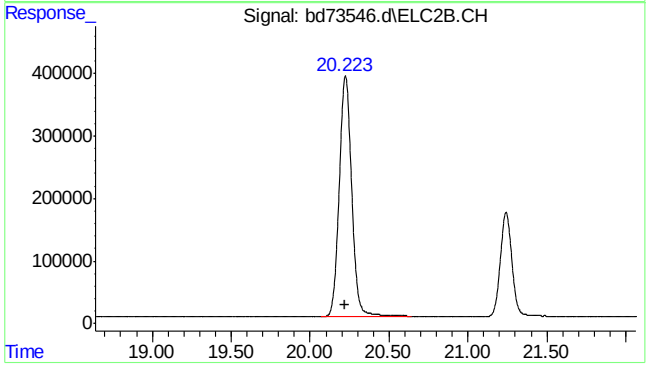
#15 benzene #2

R.T.: 15.931 min
Delta R.T.: 0.000 min
Response: 22731482
Conc: 47.00 ppb



#16 fluorobenzene #2

R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 14992040
Conc: 44.19 ppb m



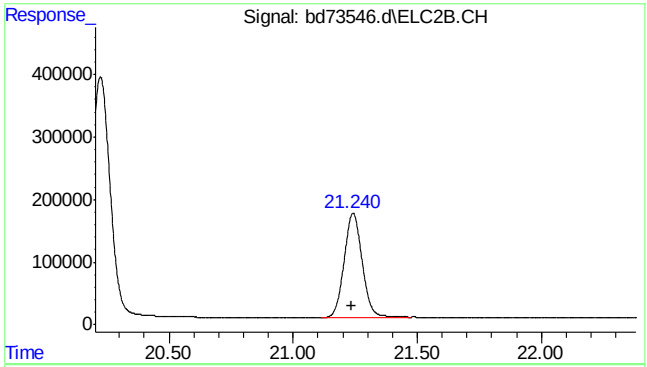
#17 toluene #2

R.T.: 20.224 min
Delta R.T.: 0.003 min
Response: 21173343
Conc: 46.77 ppb

7.3.1

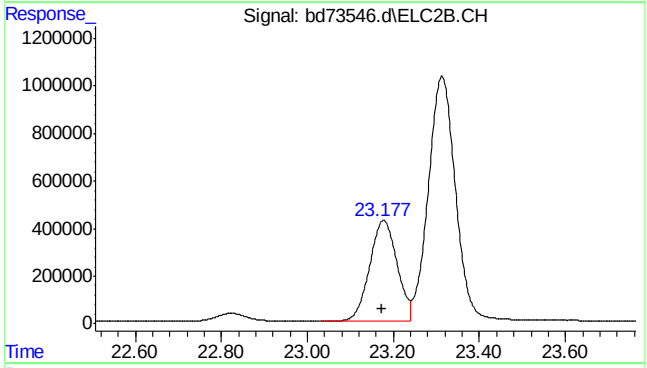
7

SGS ACCUTEST MC45897



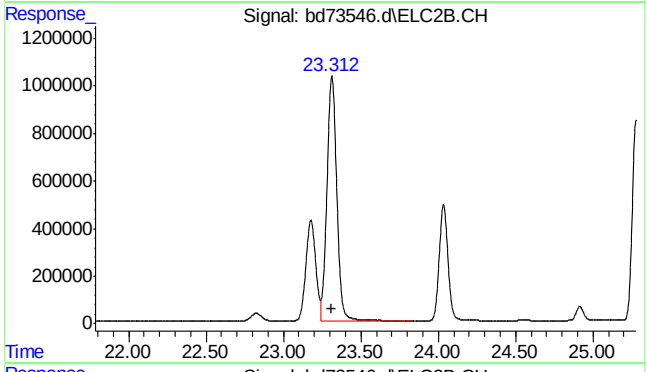
#18 2,3,4-trifluorotoluene #2

R.T.: 21.240 min
Delta R.T.: 0.003 min
Response: 8472618
Conc: 43.04 ppb m



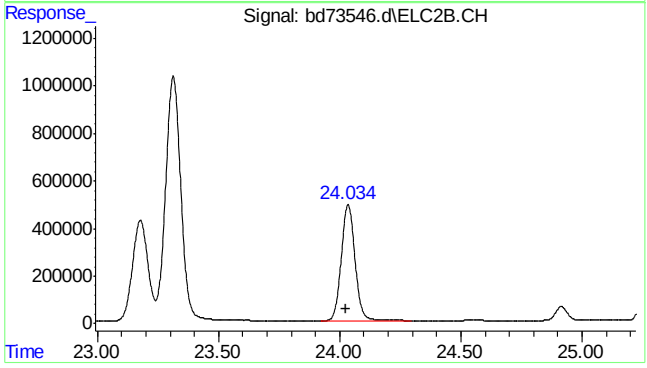
#19 ethylbenzene #2

R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 18744629
Conc: 45.17 ppb



#20 m,p-xylene #2

R.T.: 23.312 min
Delta R.T.: 0.005 min
Response: 45323127
Conc: 90.93 ppb m



#21 o-xylene #2

R.T.: 24.034 min
Delta R.T.: 0.006 min
Response: 19283736
Conc: 44.35 ppb m

7.3.1

7

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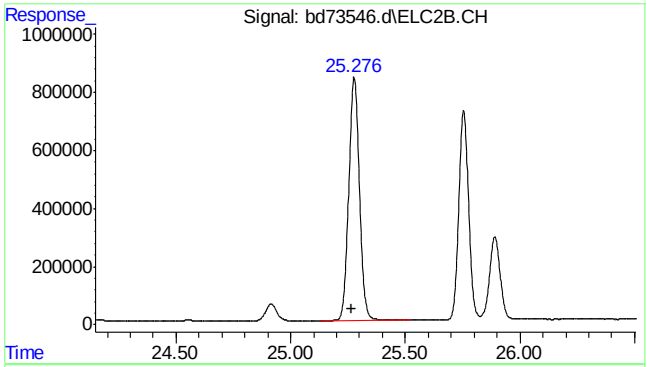
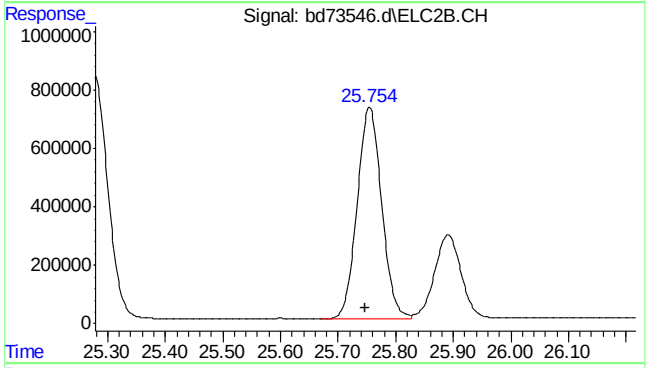


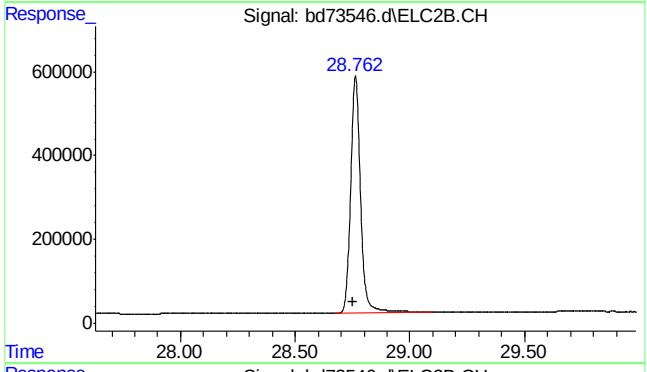
#22 1,3,5-trimethylbenzene #2

R.T.: 25.277 min
Delta R.T.: 0.009 min
Response: 27315716
Conc: 40.71 ppb



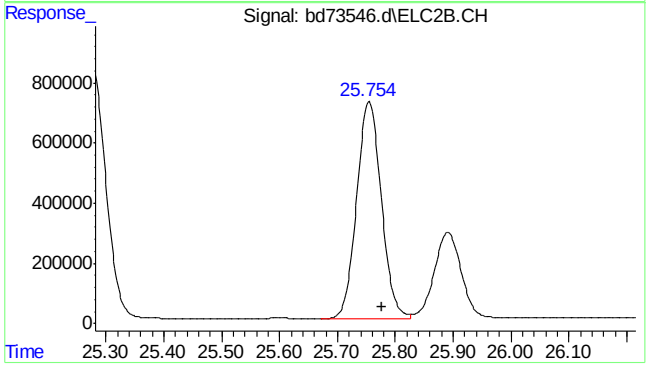
#23 1,2,4-trimethylbenzene #2

R.T.: 25.755 min
Delta R.T.: 0.009 min
Response: 21415716
Conc: 43.54 ppb



#24 naphthalene #2

R.T.: 28.762 min
Delta R.T.: 0.012 min
Response: 17063027
Conc: 47.35 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21413798
Conc: 43.55 ppb m

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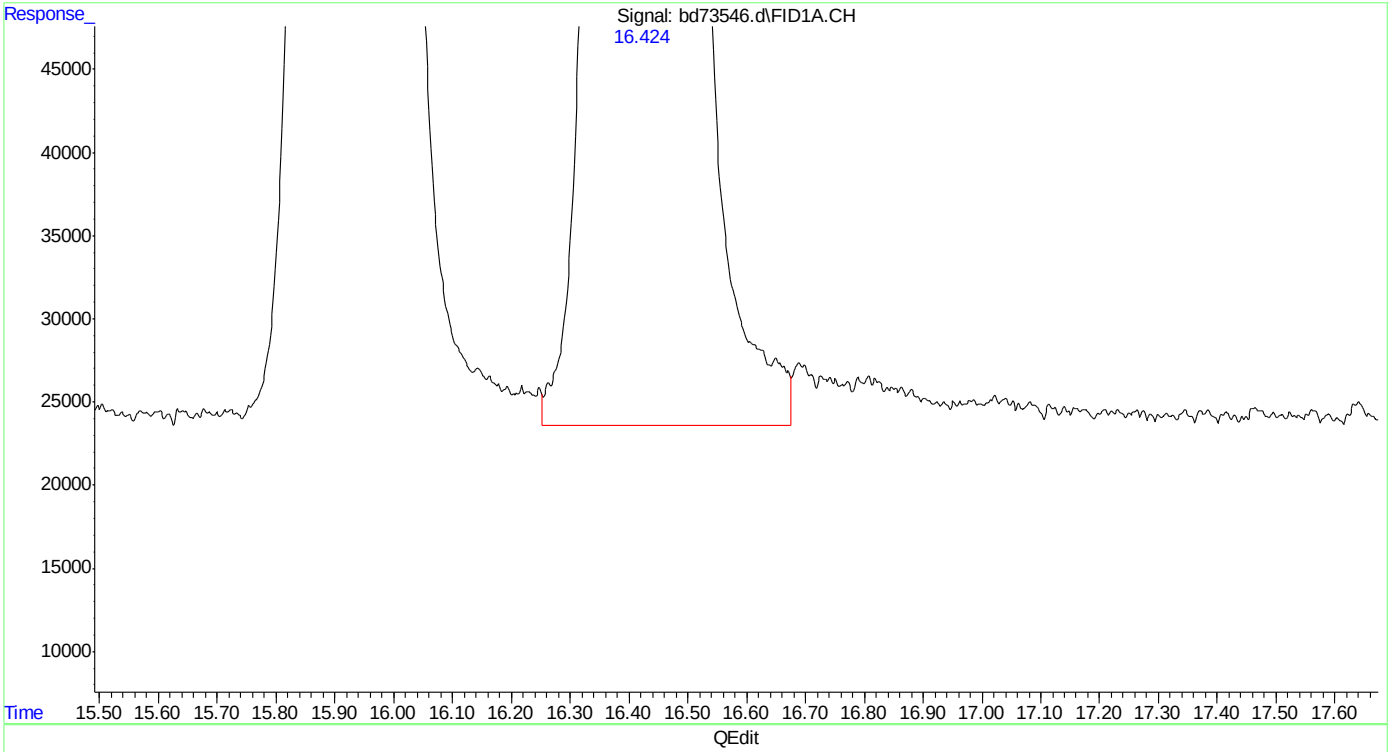
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
16.424min 52.466 ppb
response 35698044

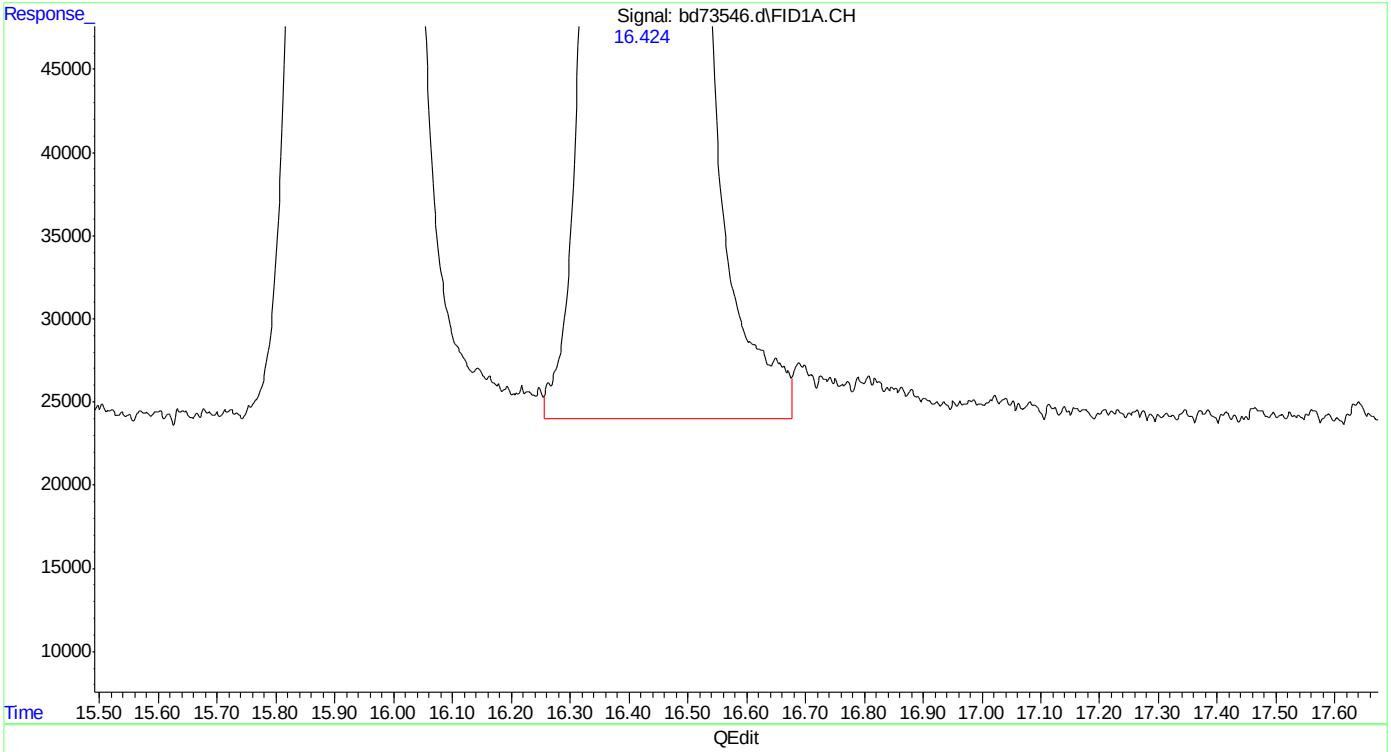
(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:13:15 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
16.424min 52.297 ppb m
response 35582951

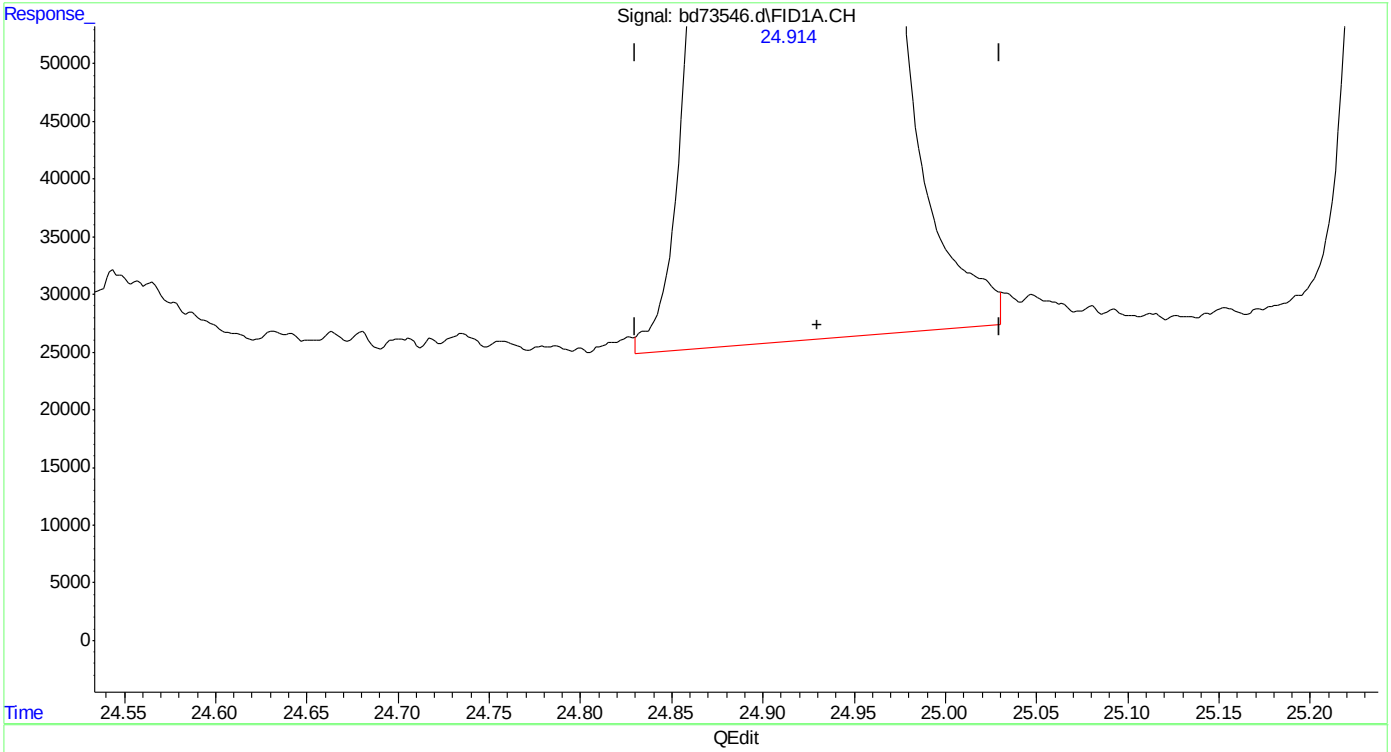
(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:13:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) decane (h)
24.930min 39.157 ppb
response 31334143

(+) = Expected Retention Time

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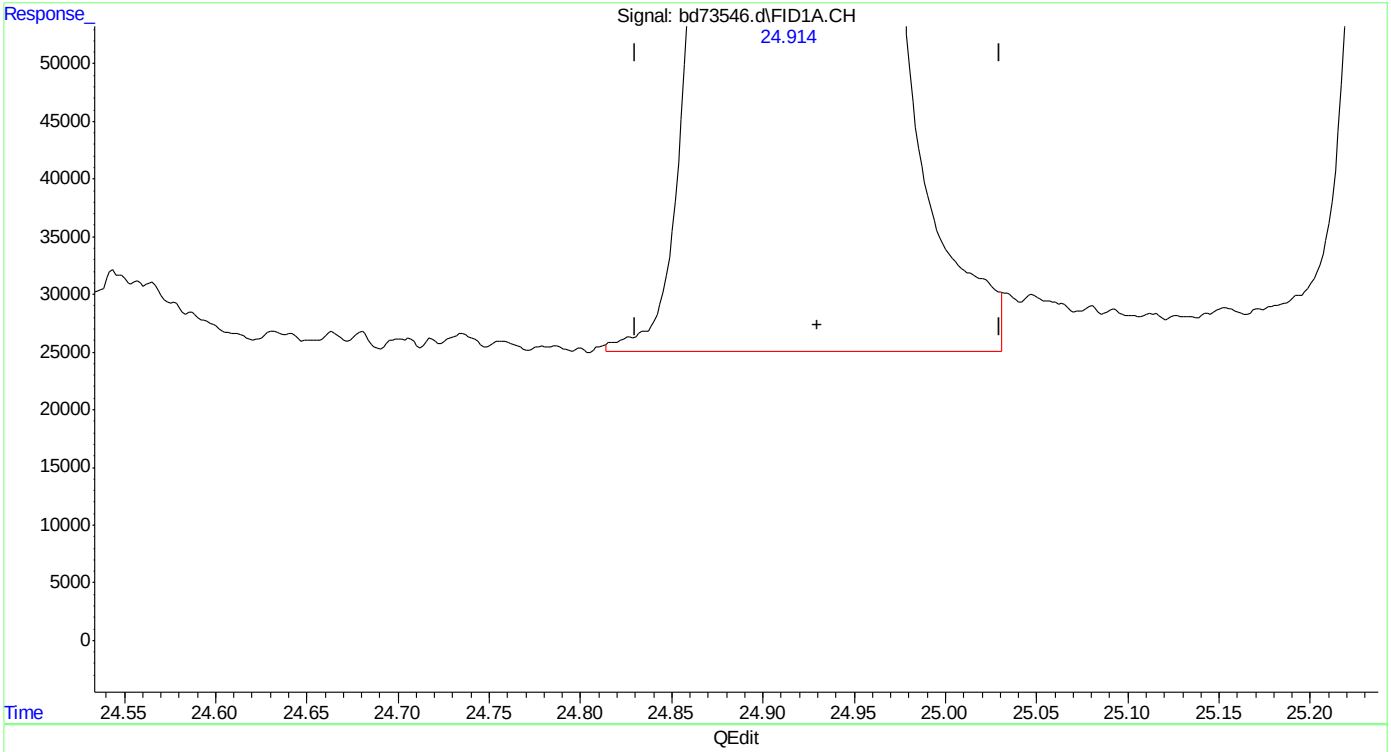
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) decane (h)
24.930min 39.347 ppb m
response 31486643

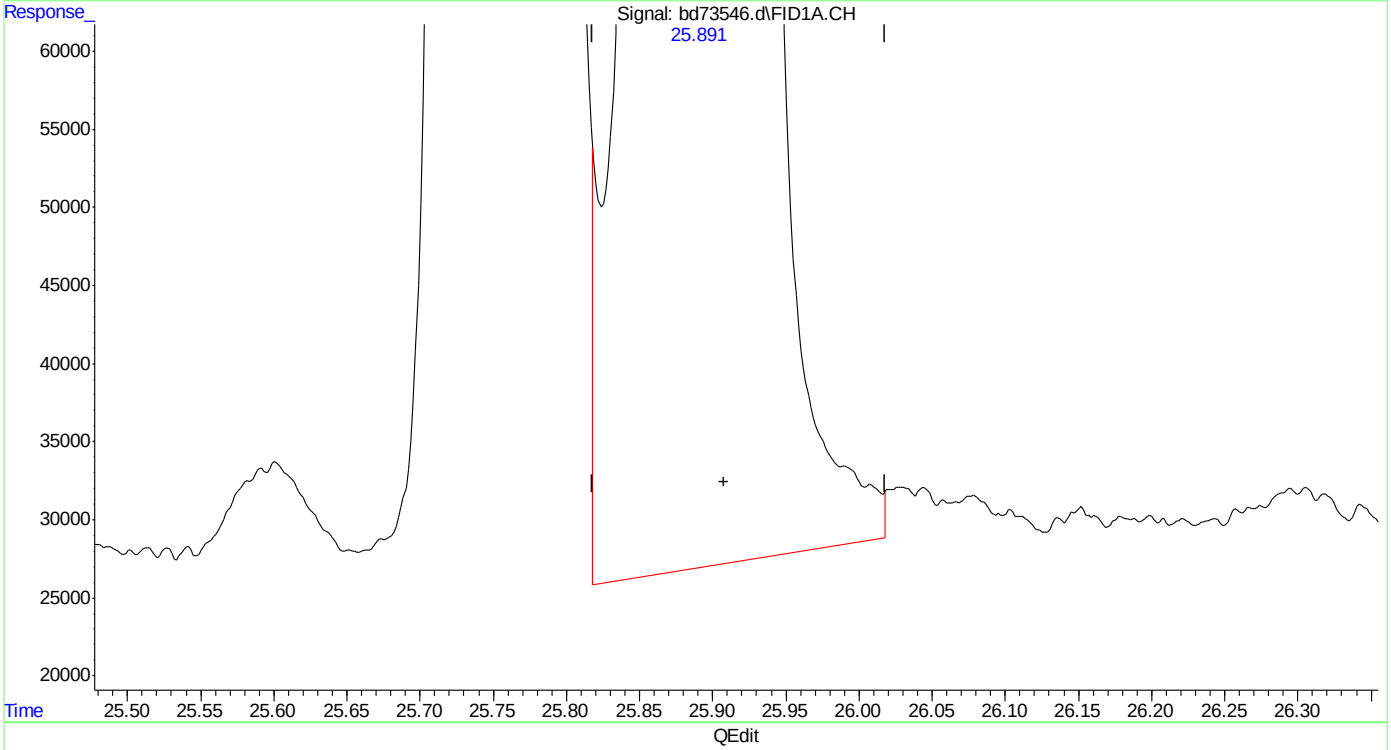
(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:13:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(11) butylcyclohexane (h)
25.908min 45.572 ppb
response 36468150

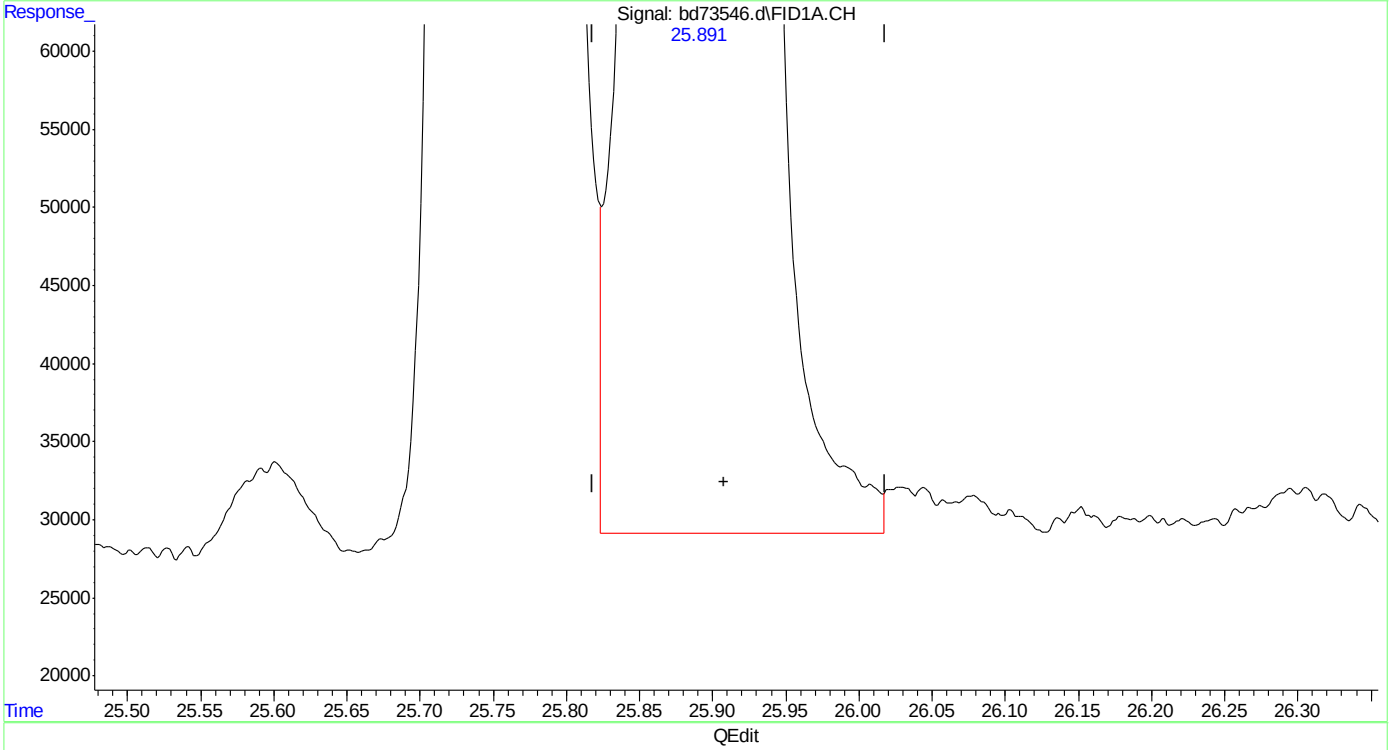
(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:13:46 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(11) butylcyclohexane (h)
25.908min 45.214 ppb m
response 36181290

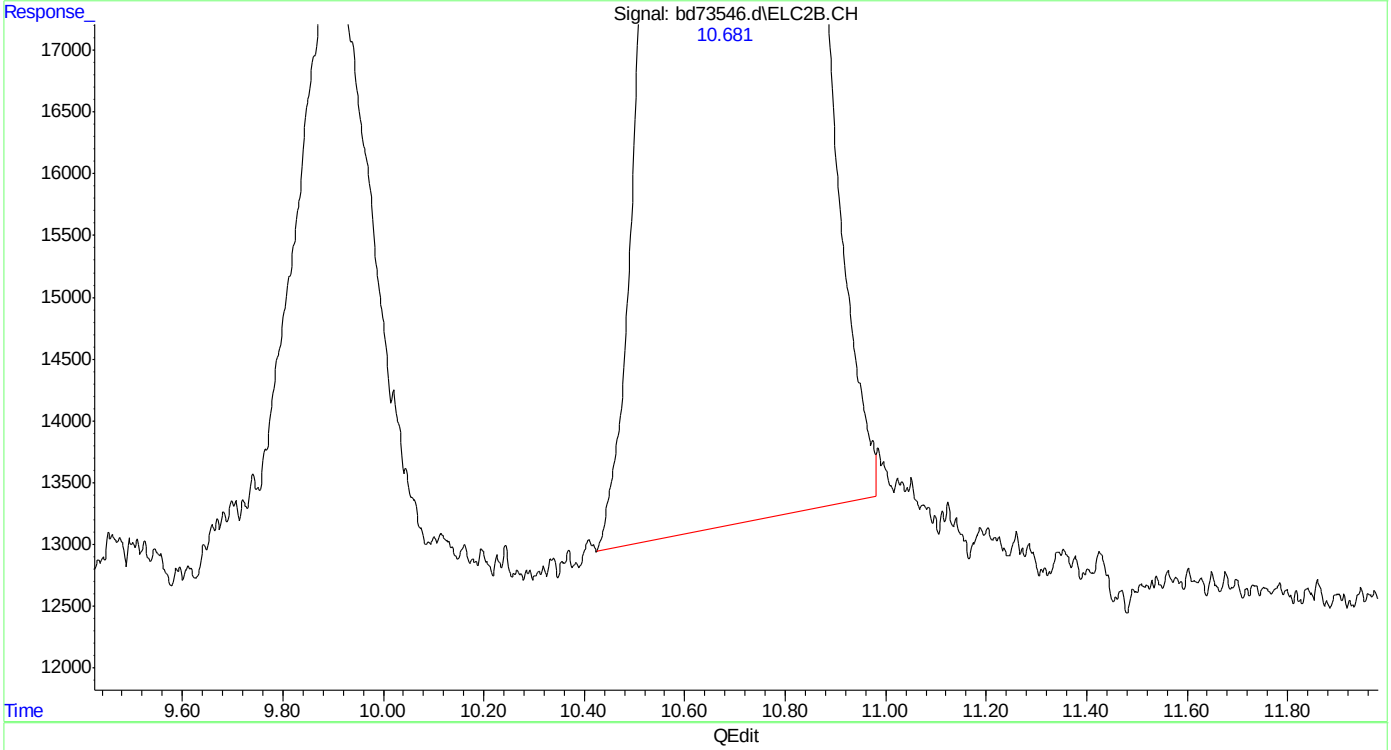
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:39:27
Operator  : danielf
Sample    : bsp,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

10.681min 48.499 ppb

response 7474032

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:14:04 2016

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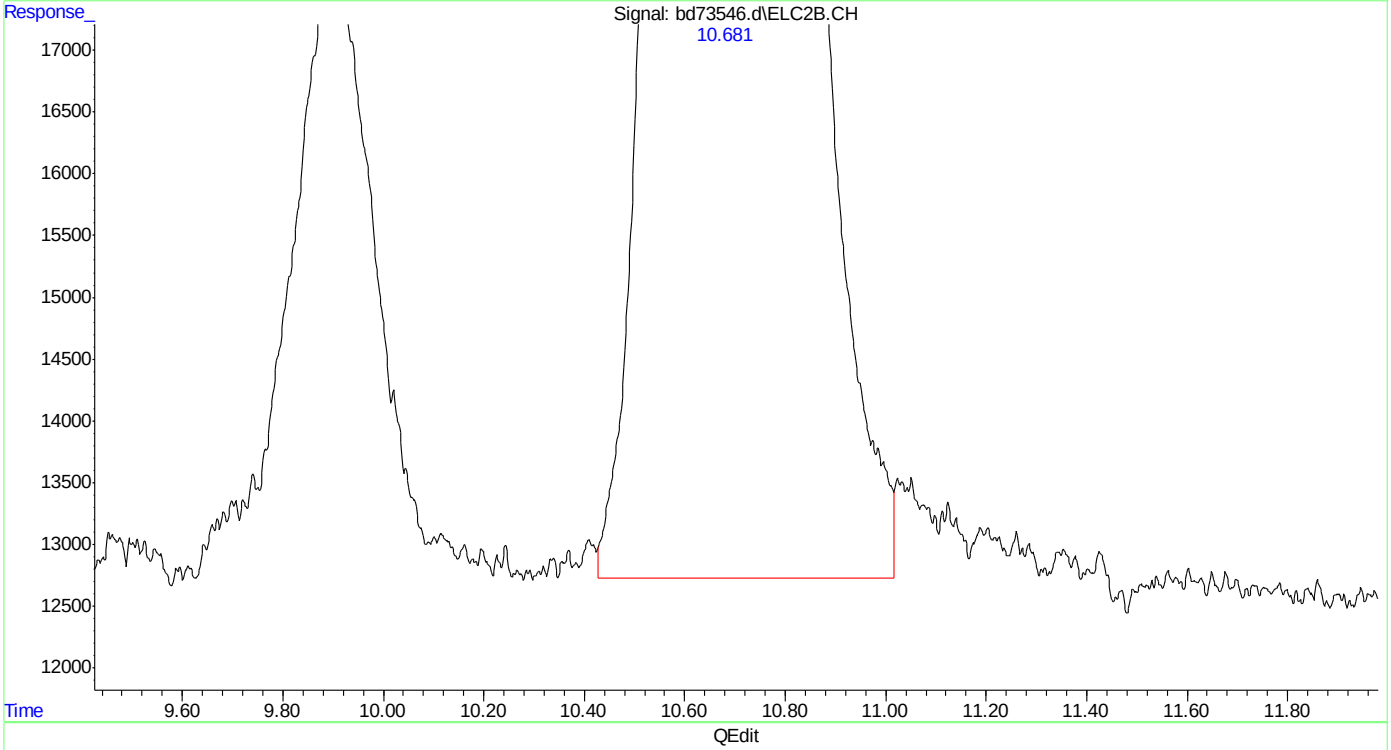
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:39:27
Operator  : danielf
Sample    : bsp,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

10.681min 49.565 ppb m

response 7638442

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:14:11 2016

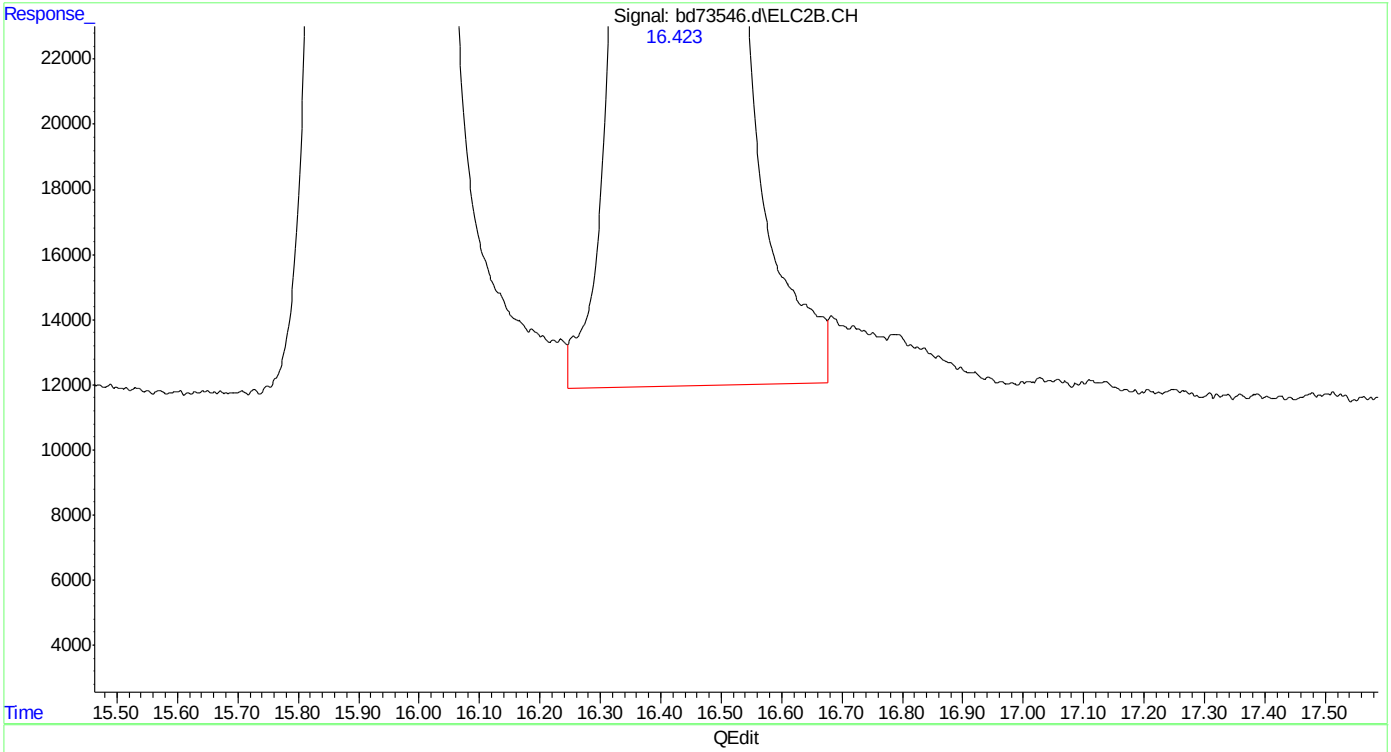
Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:39:27
Operator  : danielf
Sample    : bsp,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(16) fluorobenzene #2 (s)

16.424min 43.961 ppb

response 14913955

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:14:18 2016

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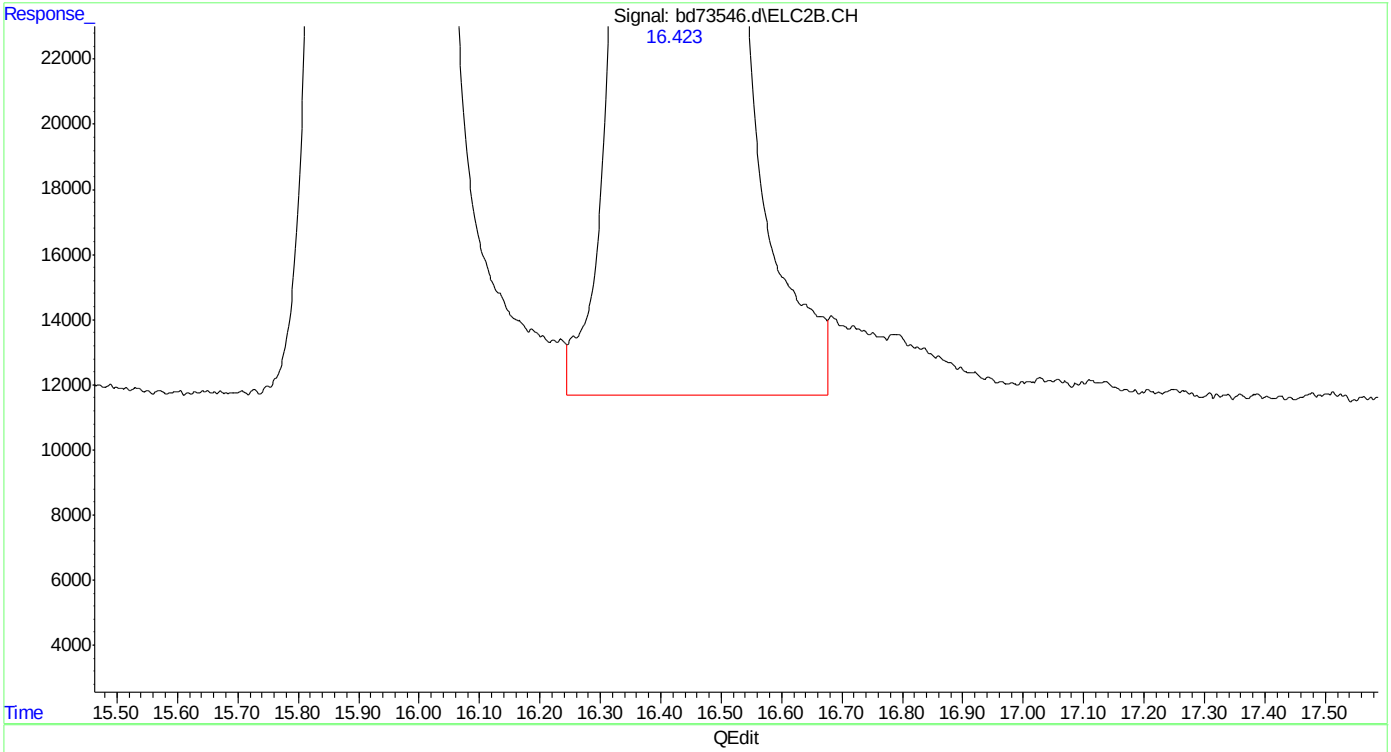
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:39:27
Operator  : danielf
Sample    : bsp,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(16) fluorobenzene #2 (s)

16.423min 44.191 ppb m

response 14992040

(+) = Expected Retention Time

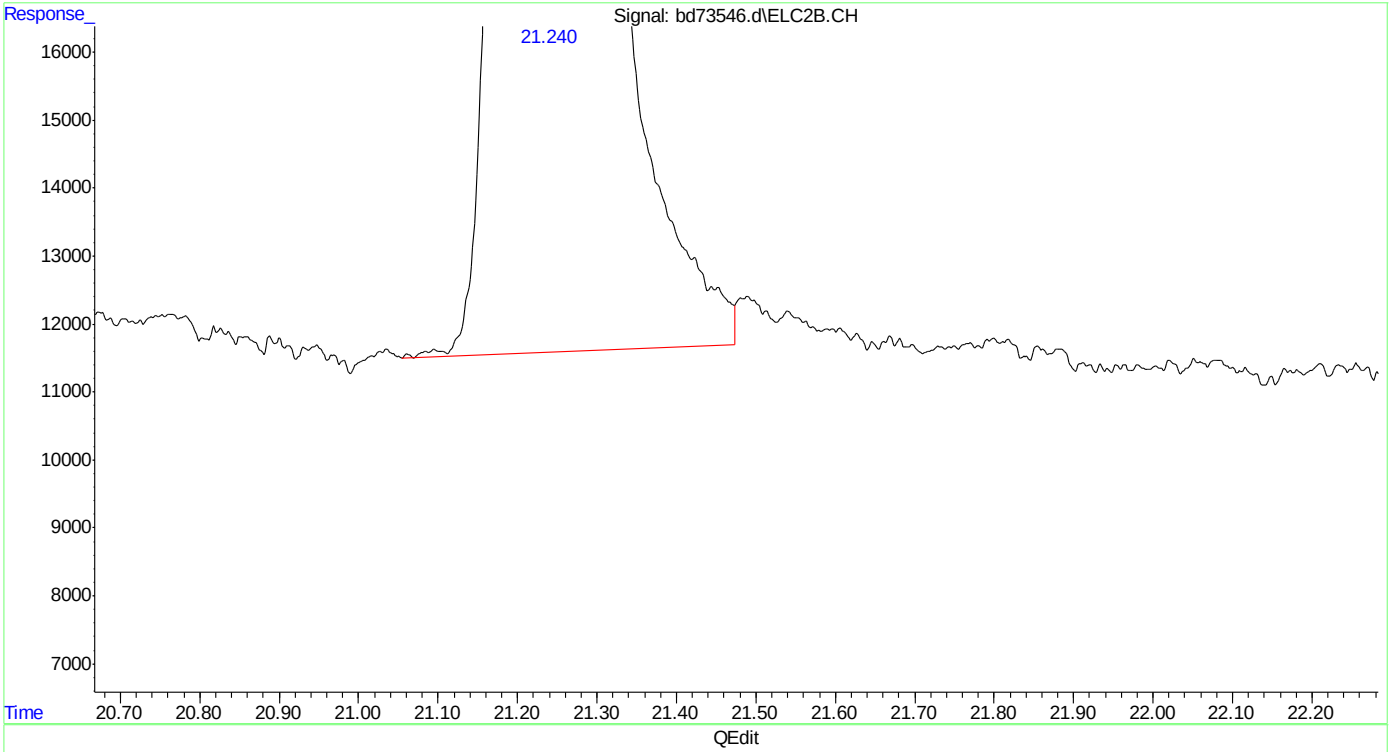
bd160513vph.M Fri May 13 11:14:27 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 2,3,4-trifluorotoluene #2 (s)
21.241min 42.969 ppb
response 8458607

(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:14:34 2016

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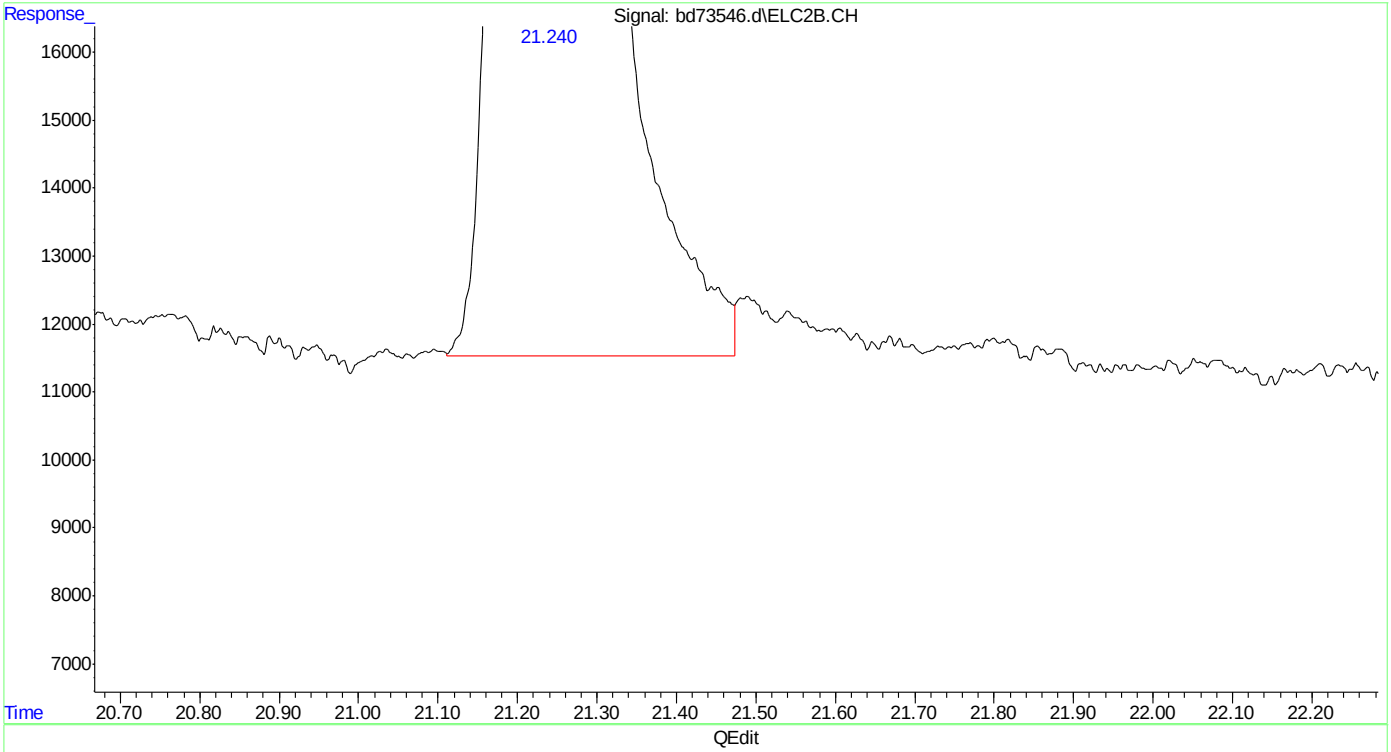
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:39:27
Operator  : danielf
Sample    : bsp,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(18) 2,3,4-trifluorotoluene #2 (s)

21.240min 43.040 ppb m

response 8472618

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:14:38 2016

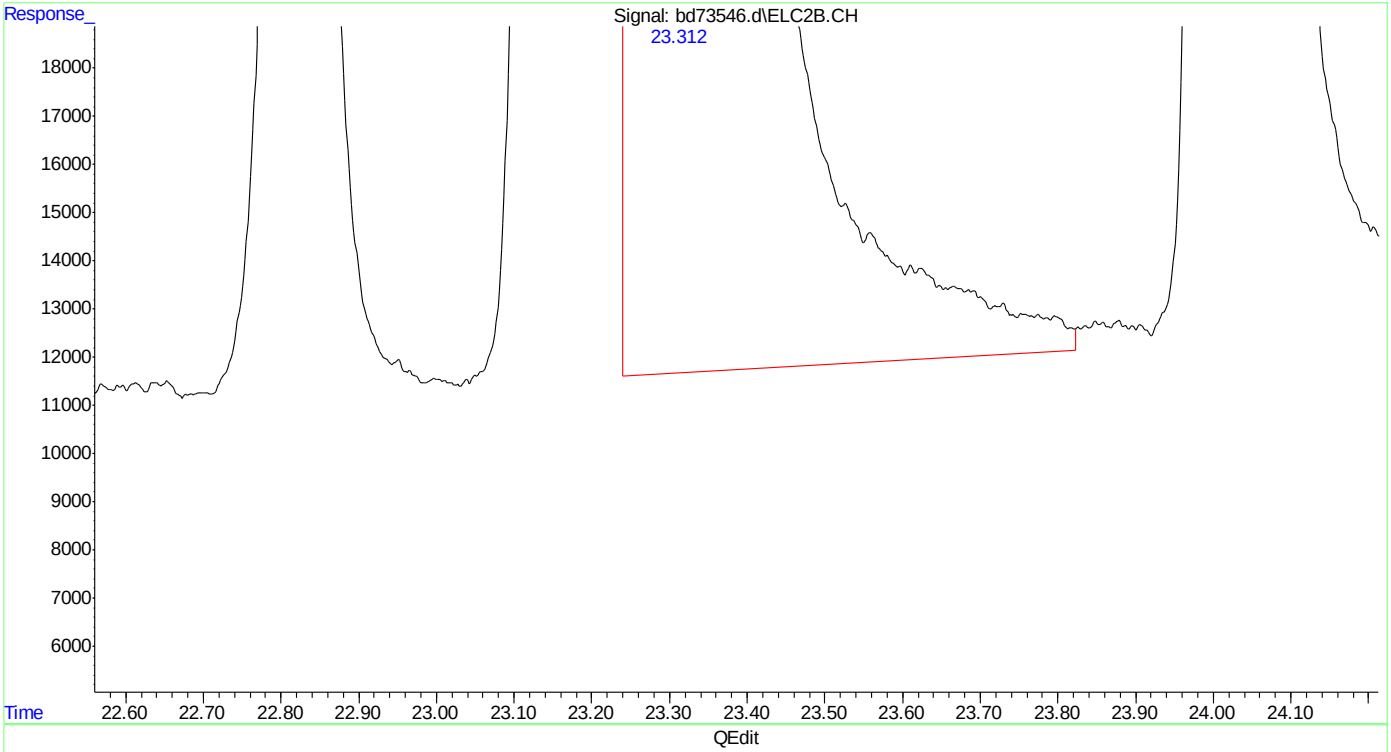
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 10:39:27
Operator  : danielf
Sample    : bsp,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(20) m,p-xylene #2

23.313min 91.475 ppb

response 45595129

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:14:48 2016

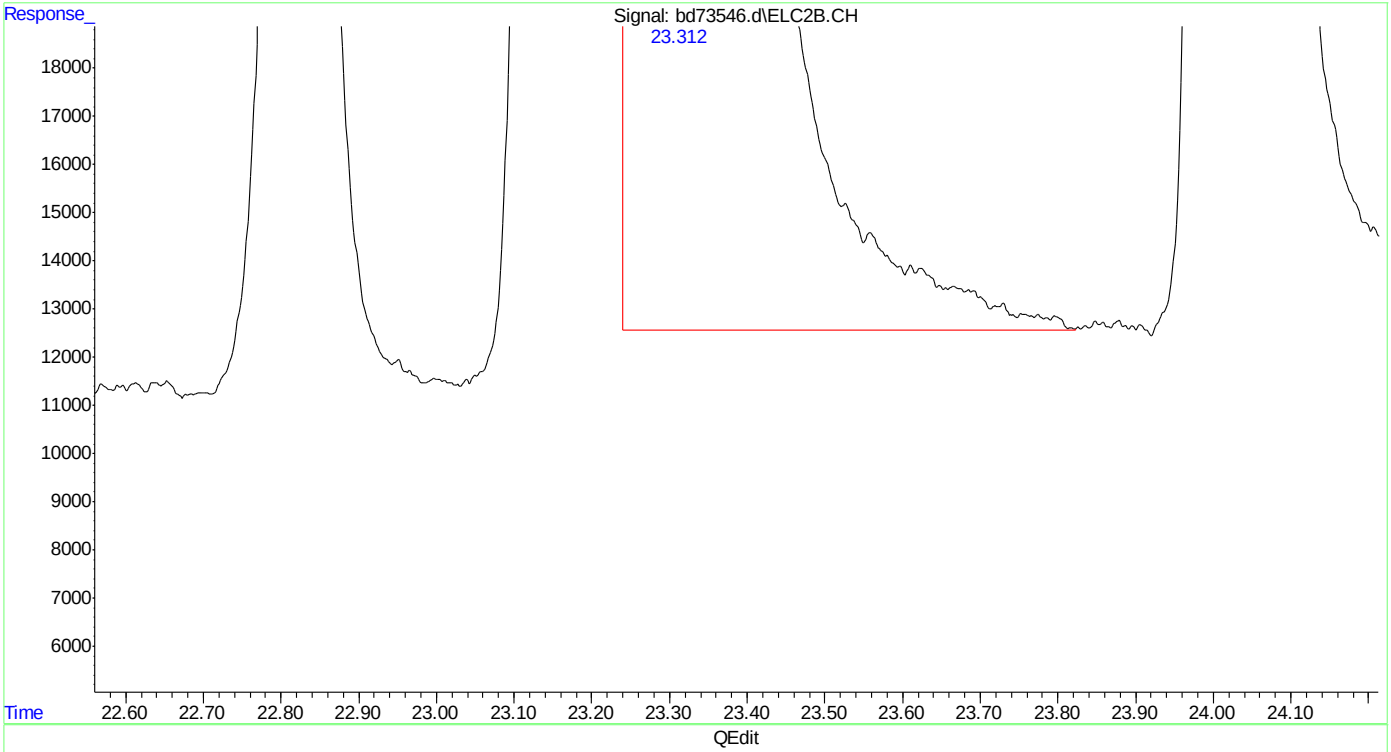
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
23.312min 90.929 ppb m
response 45323127

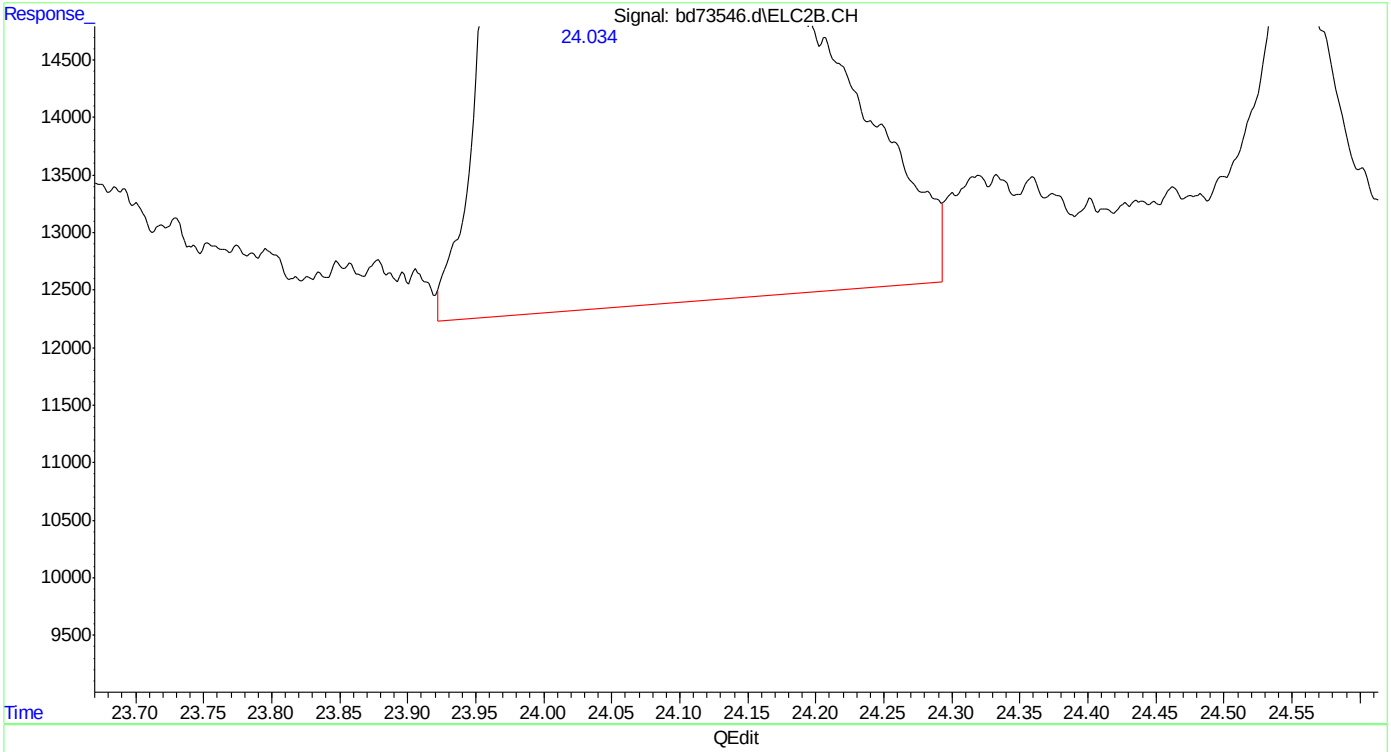
(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:14:56 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
24.035min 44.376 ppb
response 19293915

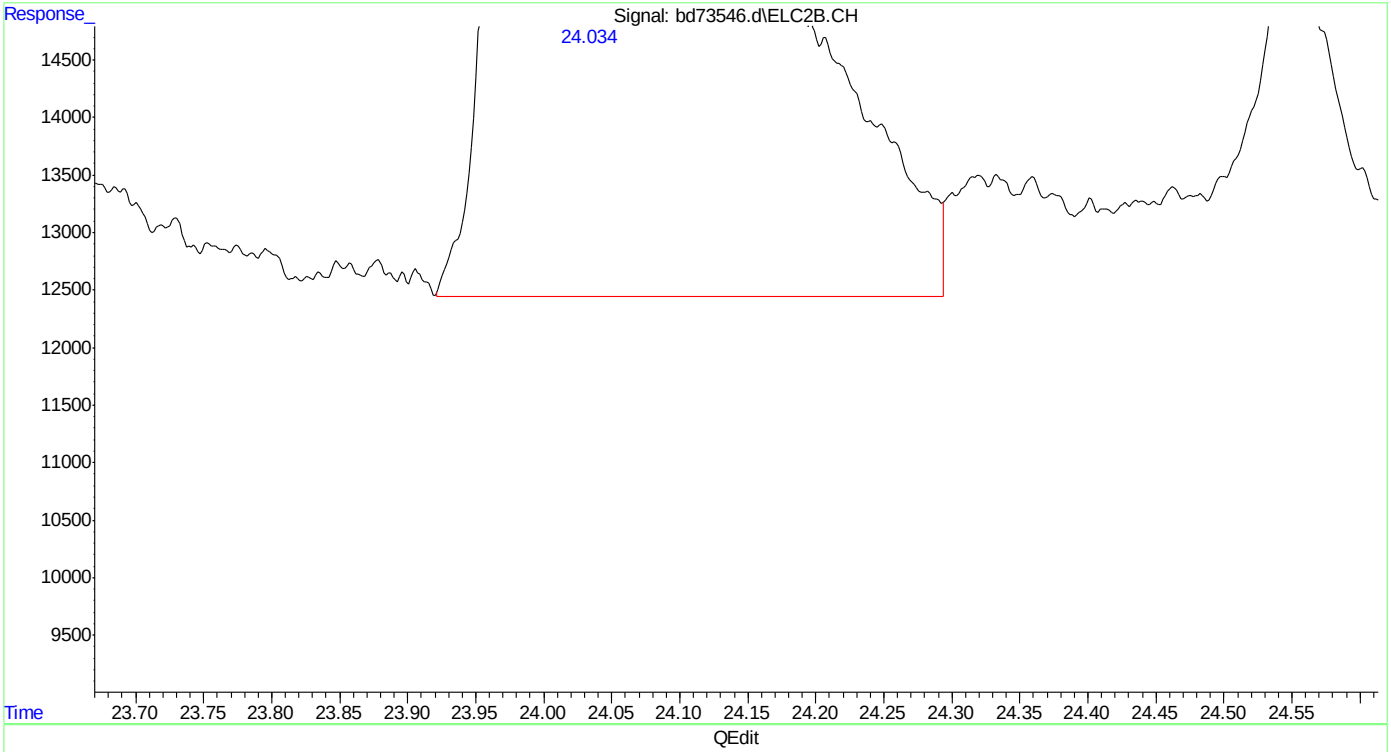
(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:15:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
24.034min 44.352 ppb m
response 19283736

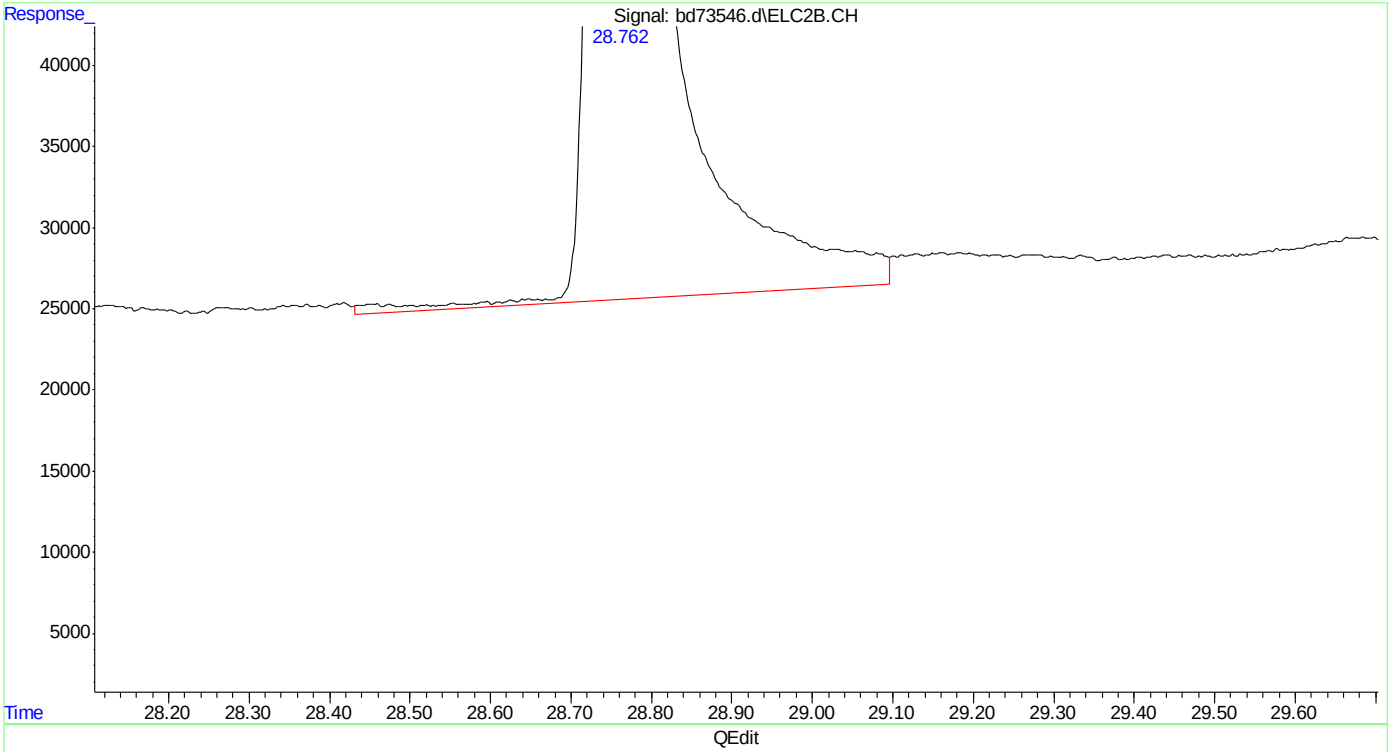
(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:15:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.763min 47.817 ppb
response 17232891

(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:15:18 2016

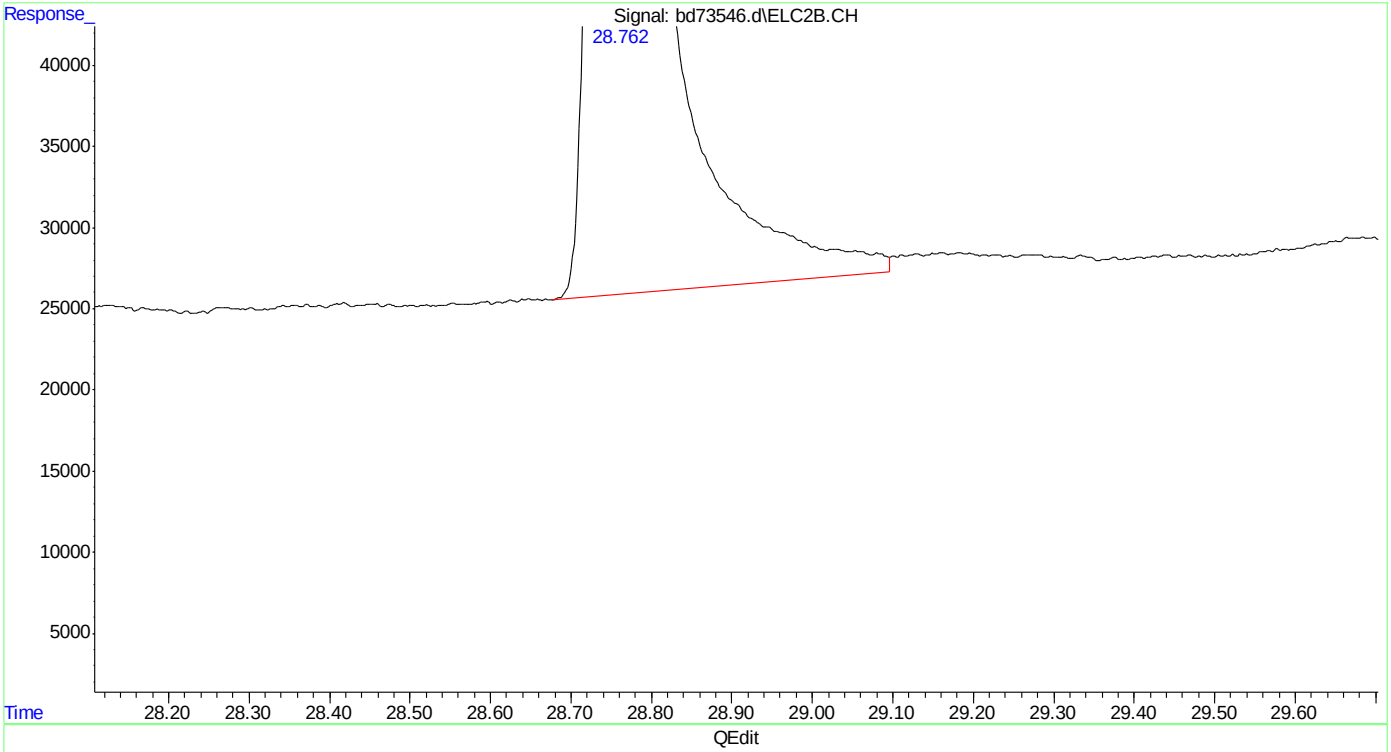
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73546.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 10:39:27
Operator : danielf
Sample : bsp,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:12:39 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.762min 47.351 ppb m
response 17063027

(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:15:25 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:56:49 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.422	37216642	54.698 ppb	m
Spiked Amount 50.000		Recovery	= 109.40%	
6) s 2,3,4-trifluorotoluene	21.240	28694138	55.074 ppb	m
Spiked Amount 50.000		Recovery	= 110.15%	
16) s fluorobenzene #2	16.422	15696849	46.269 ppb	m
Spiked Amount 50.000		Recovery	= 92.54%	
18) s 2,3,4-trifluorotoluen...	21.241	8784131	44.622 ppb	
Spiked Amount 50.000		Recovery	= 89.24%	
Target Compounds				
1) h rt5.5-7	7.470	28237410	45.785 ppb	m
2) h rt7/10	9.920	33548762	54.396 ppb	m
3) h rt10/13	15.200	30609716	49.631 ppb	m
8) h rt20/25	22.840	34549045	43.174 ppb	m
10) h decane	24.930	33322088	41.641 ppb	m
11) h butylcyclohexane	25.908	38193788	47.729 ppb	m
14) mtbe #2	10.681f	7910987	51.334 ppb	m
15) benzene #2	15.929	23698760	49.005 ppb	m
17) toluene #2	20.222	22055349	48.718 ppb	m
19) ethylbenzene #2	23.177	19483443	46.947 ppb	
20) m,p-xylene #2	23.312	47030815	94.355 ppb	m
21) o-xylene #2	24.035	19955387	45.897 ppb	
22) t 1,3,5-trimethylbenzen...	25.276	28600217	42.621 ppb	
23) 1,2,4-trimethylbenzen...	25.754	22352321	45.443 ppb	m
24) naphthalene #2	28.762	18784776	52.072 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	22321982	45.402 ppb	m

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

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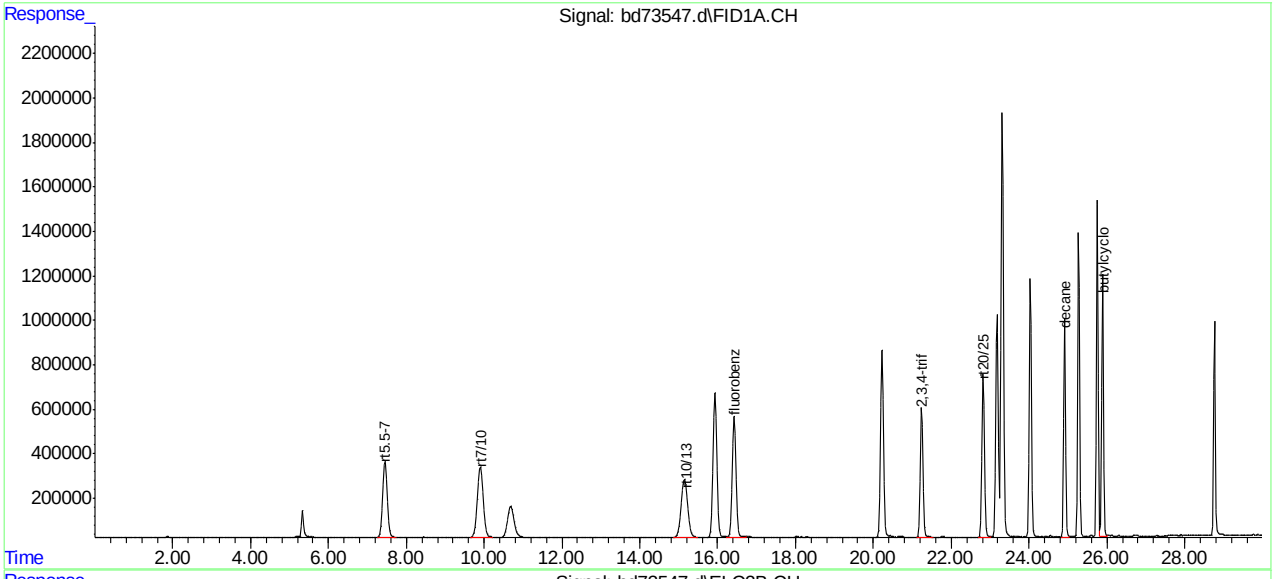
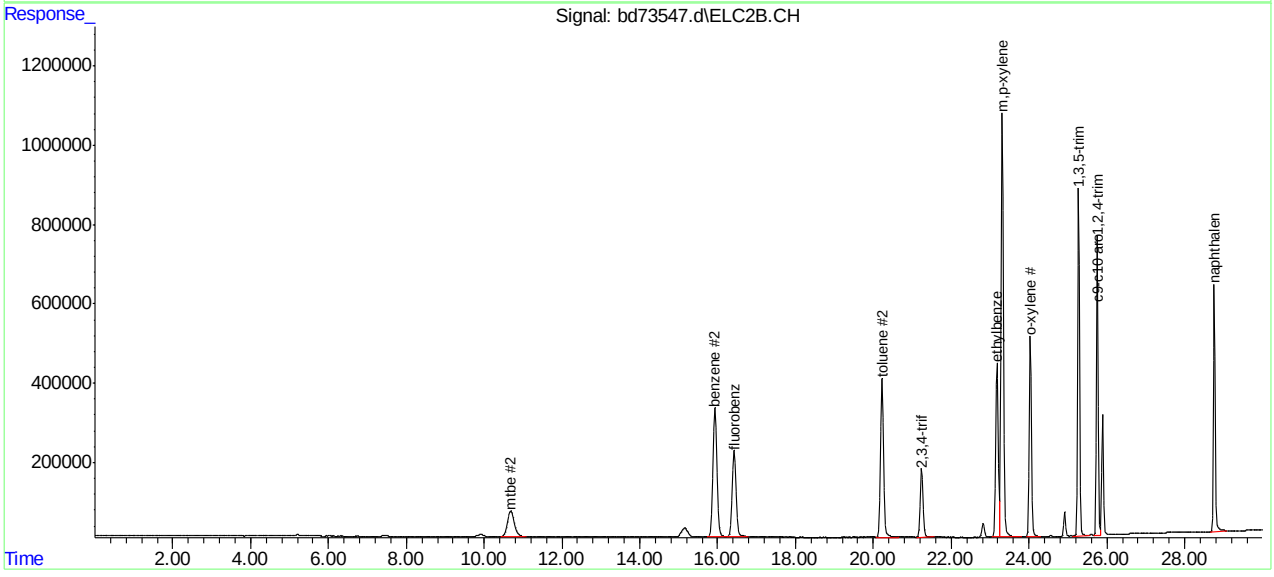
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

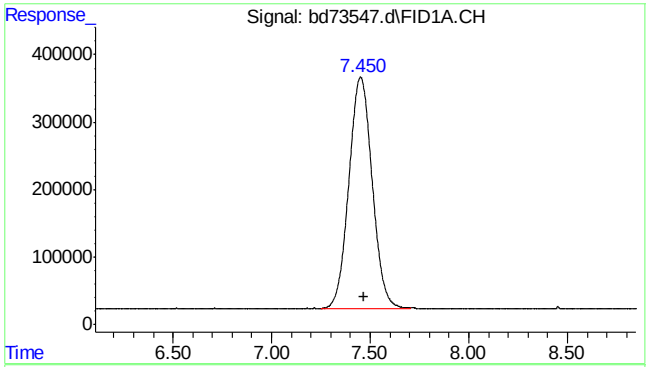
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:56:49 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



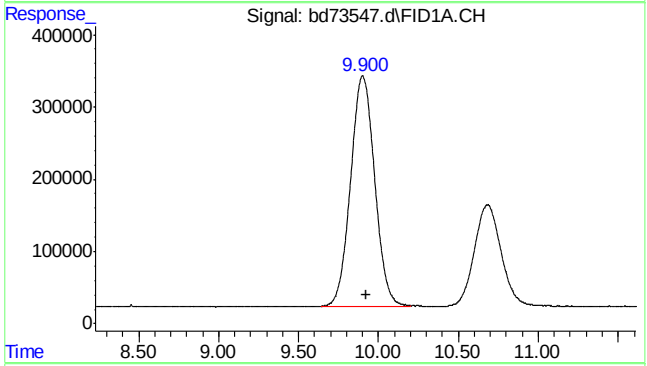


SGS ACCUTEST MC45897



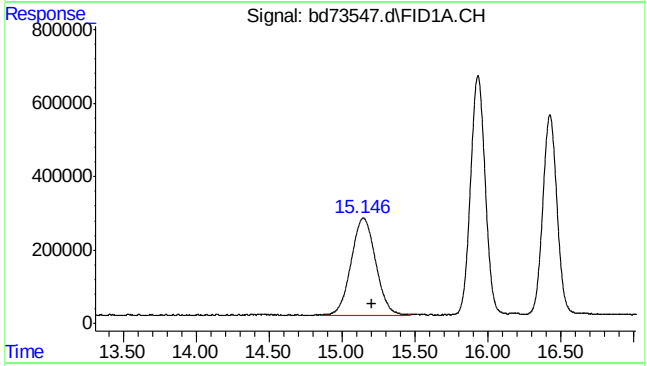
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 28237410
Conc: 45.78 ppb m



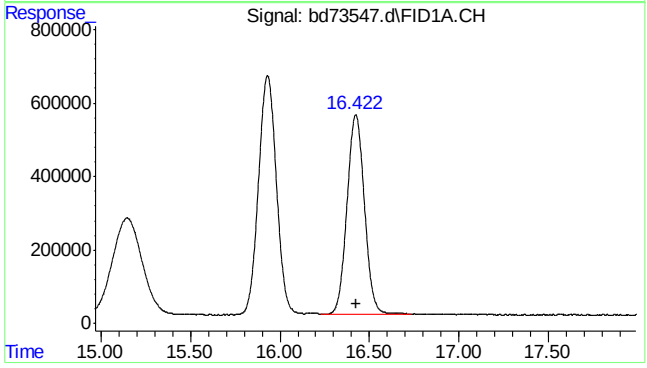
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 33548762
Conc: 54.40 ppb m



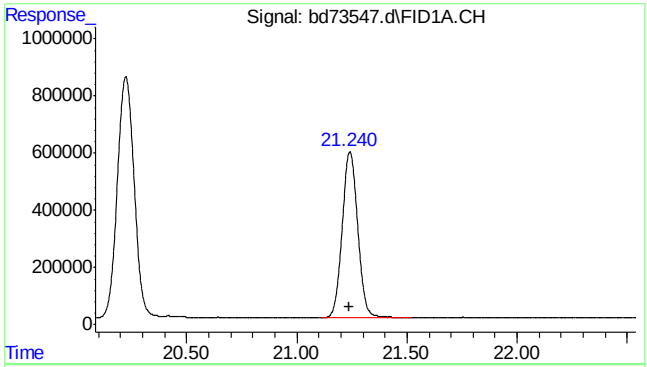
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 30609716
Conc: 49.63 ppb m



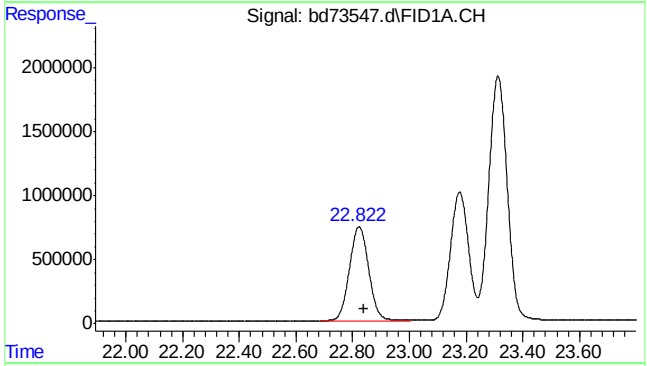
#4 fluorobenzene

R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 37216642
Conc: 54.70 ppb m



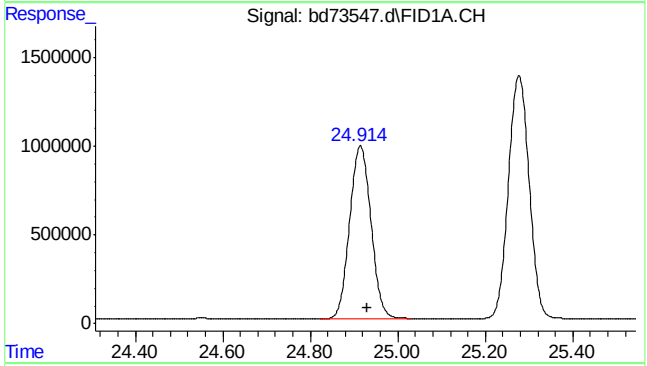
#6 2,3,4-trifluorotoluene

R.T.: 21.240 min
Delta R.T.: 0.003 min
Response: 28694138
Conc: 55.07 ppb m



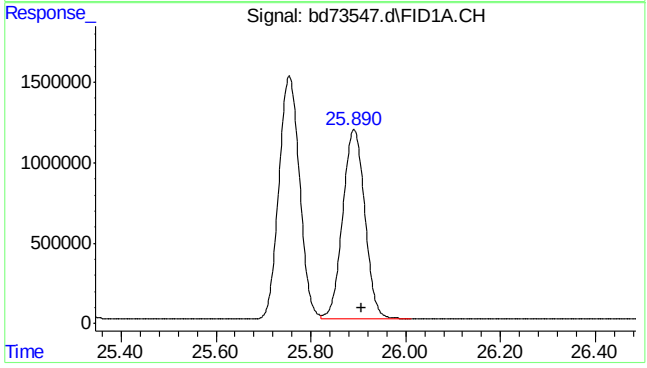
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 34549045
Conc: 43.17 ppb m



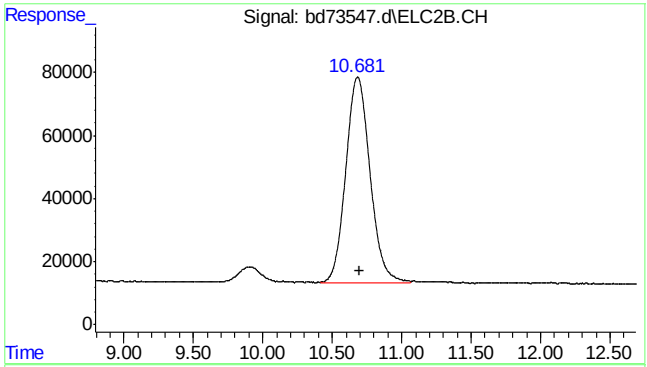
#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 33322088
Conc: 41.64 ppb m



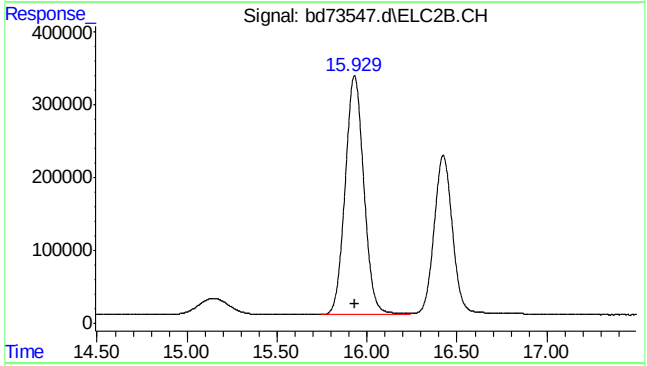
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 38193788
Conc: 47.73 ppb m



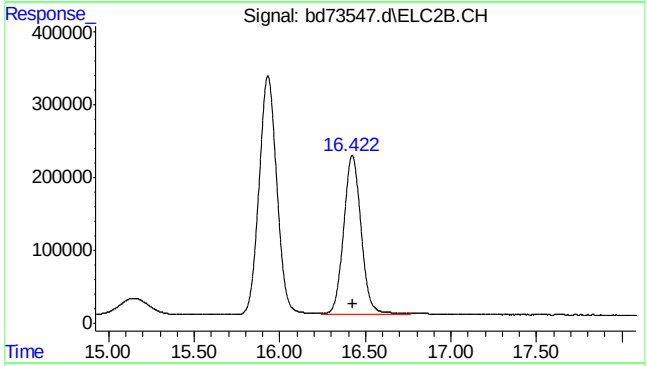
#14 mtbe #2

R.T.: 10.681 min
Delta R.T.: -0.015 min
Response: 7910987
Conc: 51.33 ppb m



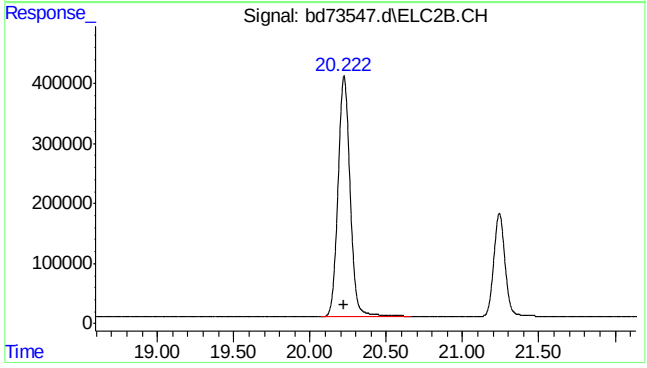
#15 benzene #2

R.T.: 15.929 min
Delta R.T.: -0.003 min
Response: 23698760
Conc: 49.00 ppb m



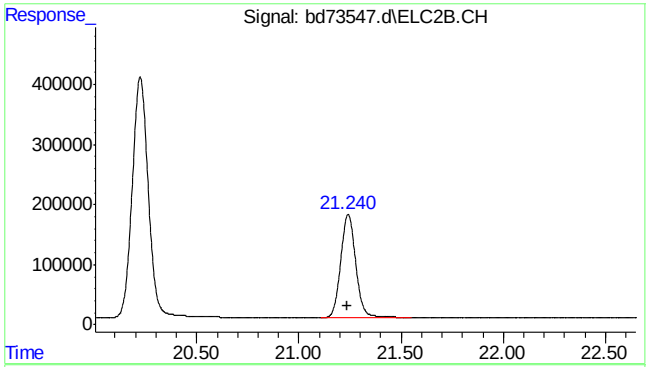
#16 fluorobenzene #2

R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 15696849
Conc: 46.27 ppb m



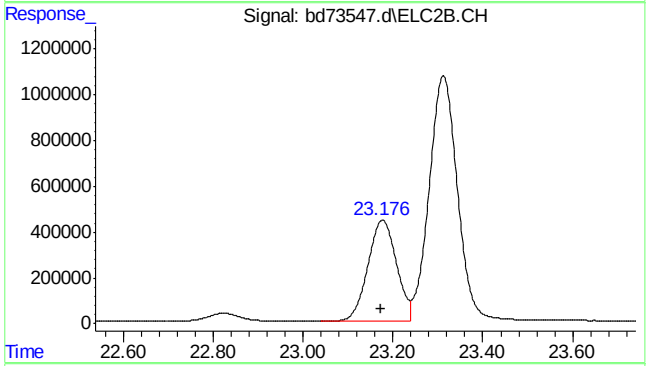
#17 toluene #2

R.T.: 20.222 min
Delta R.T.: 0.001 min
Response: 22055349
Conc: 48.72 ppb m



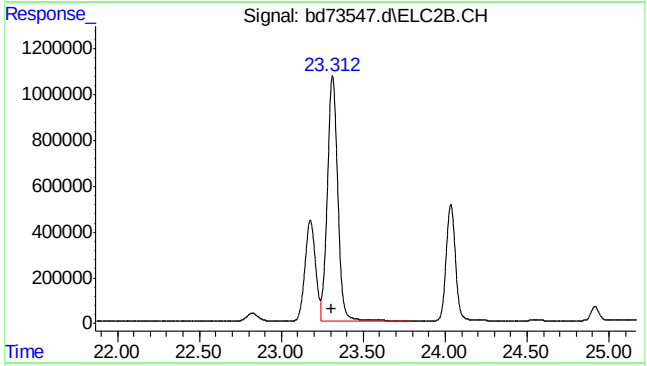
#18 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 8784131
Conc: 44.62 ppb



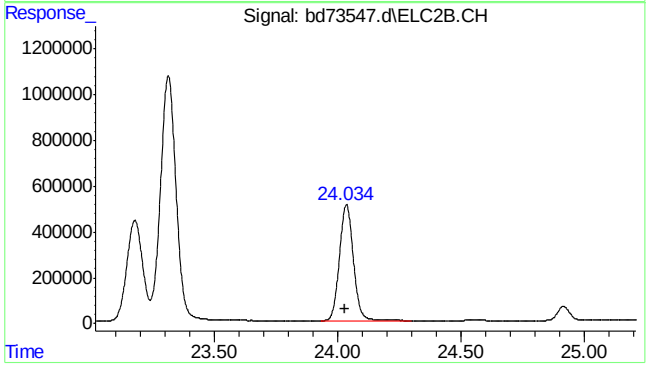
#19 ethylbenzene #2

R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 19483443
Conc: 46.95 ppb



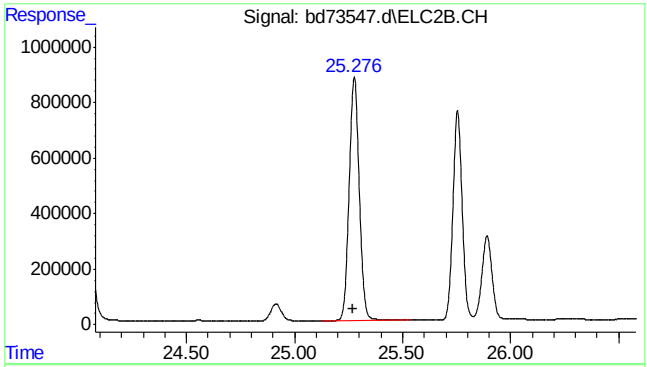
#20 m,p-xylene #2

R.T.: 23.312 min
Delta R.T.: 0.005 min
Response: 47030815
Conc: 94.36 ppb m



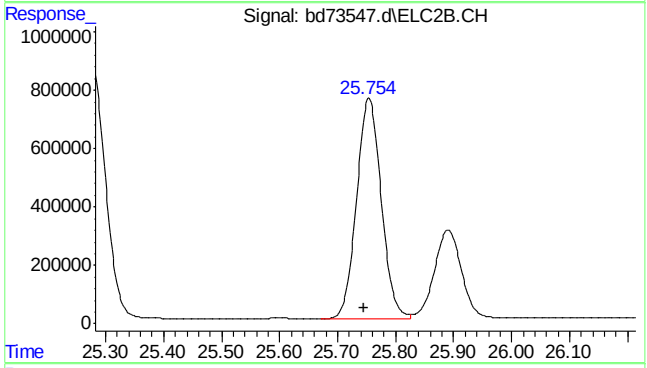
#21 o-xylene #2

R.T.: 24.035 min
Delta R.T.: 0.007 min
Response: 19955387
Conc: 45.90 ppb



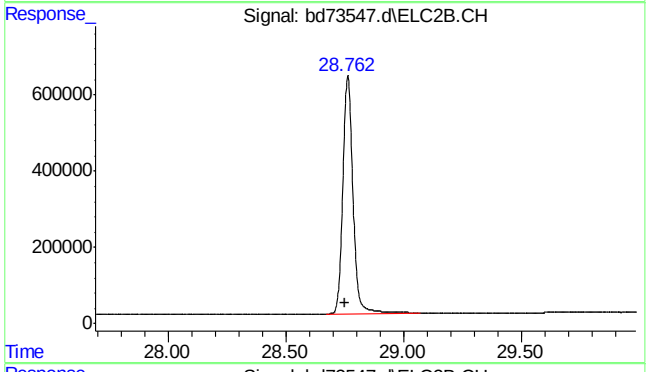
#22 1,3,5-trimethylbenzene #2

R.T.: 25.276 min
Delta R.T.: 0.008 min
Response: 28600217
Conc: 42.62 ppb



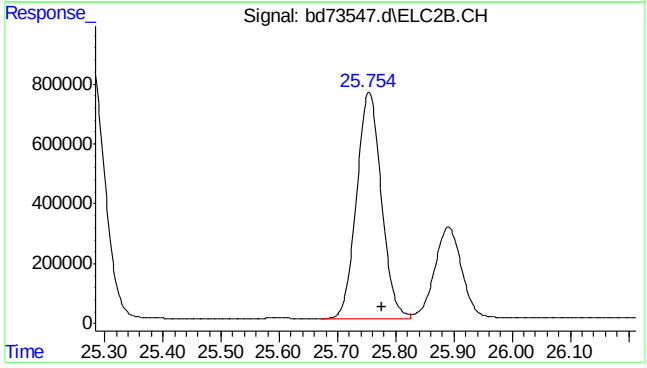
#23 1,2,4-trimethylbenzene #2

R.T.: 25.754 min
Delta R.T.: 0.008 min
Response: 22352321
Conc: 45.44 ppb m



#24 naphthalene #2

R.T.: 28.762 min
Delta R.T.: 0.012 min
Response: 18784776
Conc: 52.07 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 22321982
Conc: 45.40 ppb m

7.3.2

7

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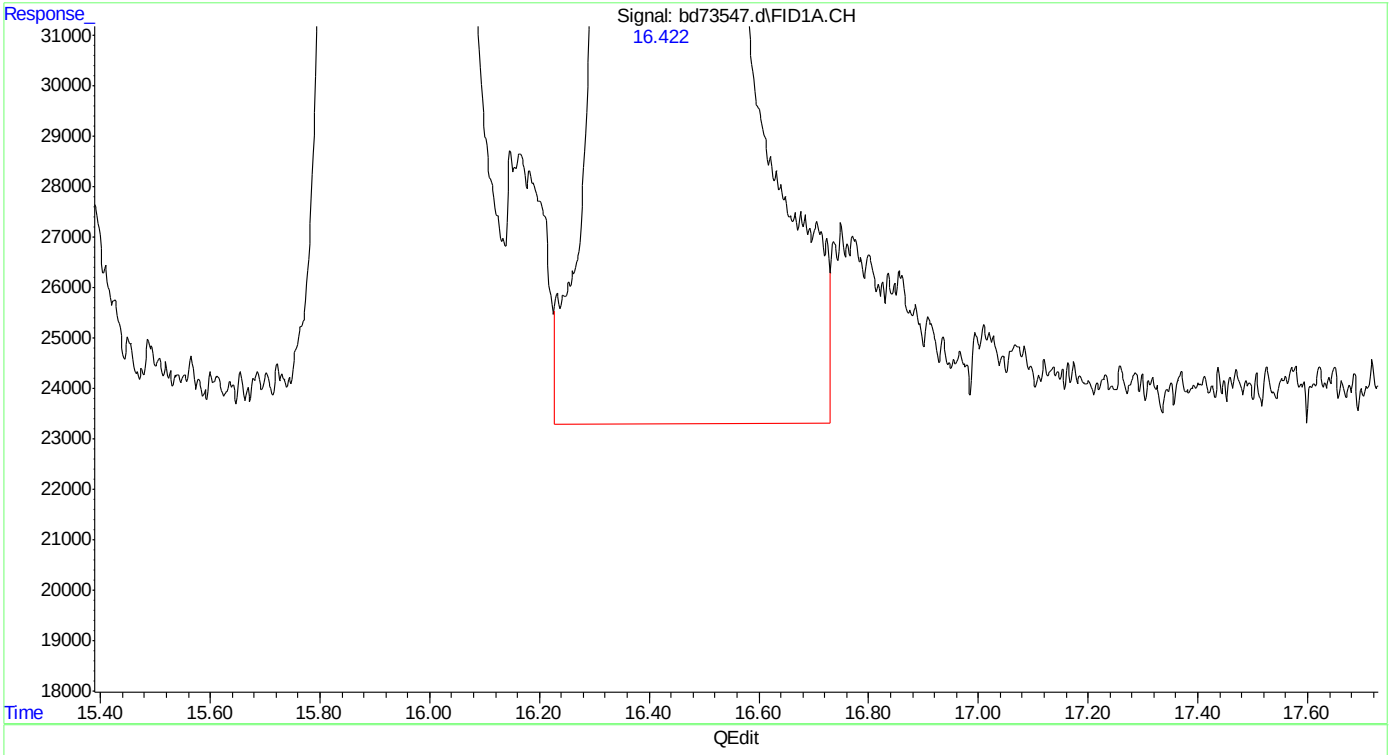
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 11:17:17
Operator  : danielf
Sample    : bsd,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(4) fluorobenzene (s)

16.423min 55.055 ppb

response 37459798

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:51:38 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(4) fluorobenzene (s)
16.422min 54.698 ppb m
response 37216642

(+) = Expected Retention Time

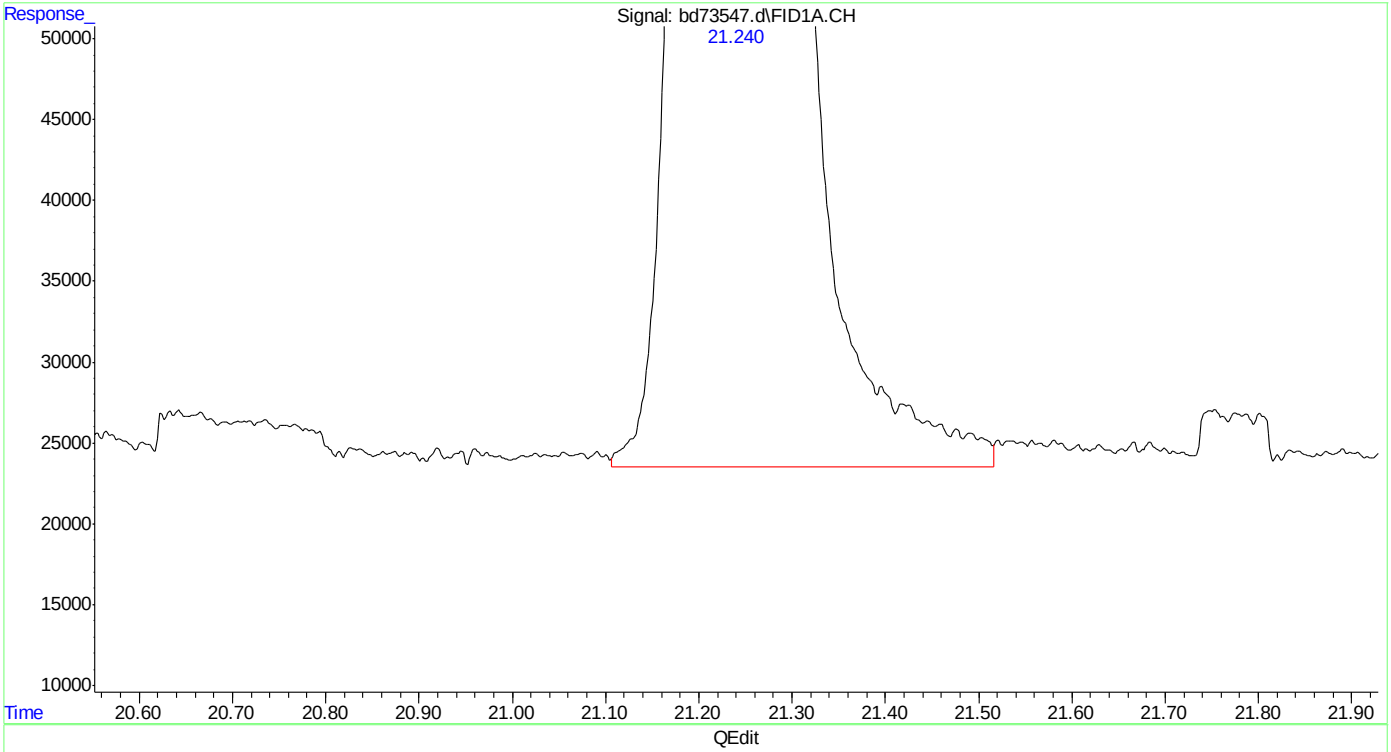
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 11:17:17
Operator  : danielf
Sample    : bsd,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(6) 2,3,4-trifluorotoluene (s)

21.241min 55.264 ppb

response 28792949

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:54:09 2016

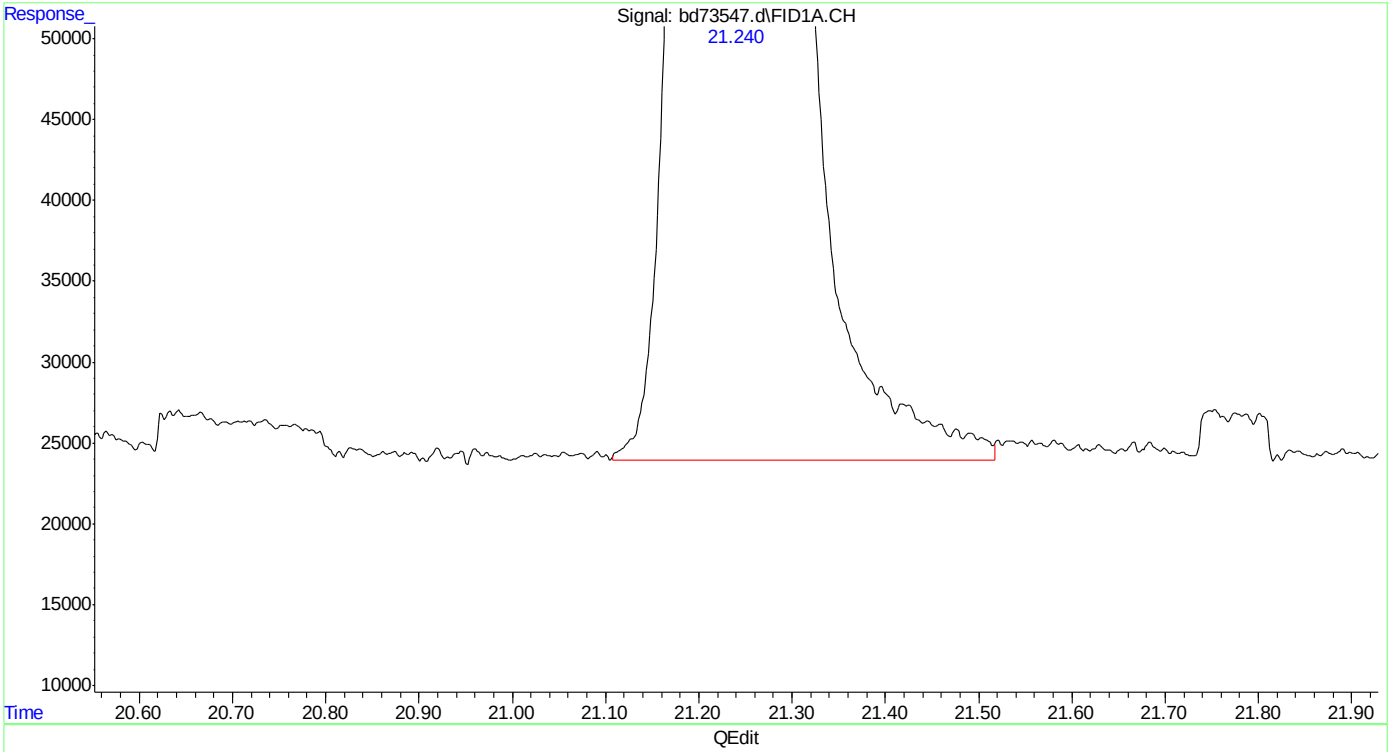
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) 2,3,4-trifluorotoluene (s)
21.240min 55.074 ppb m
response 28694138

(+) = Expected Retention Time

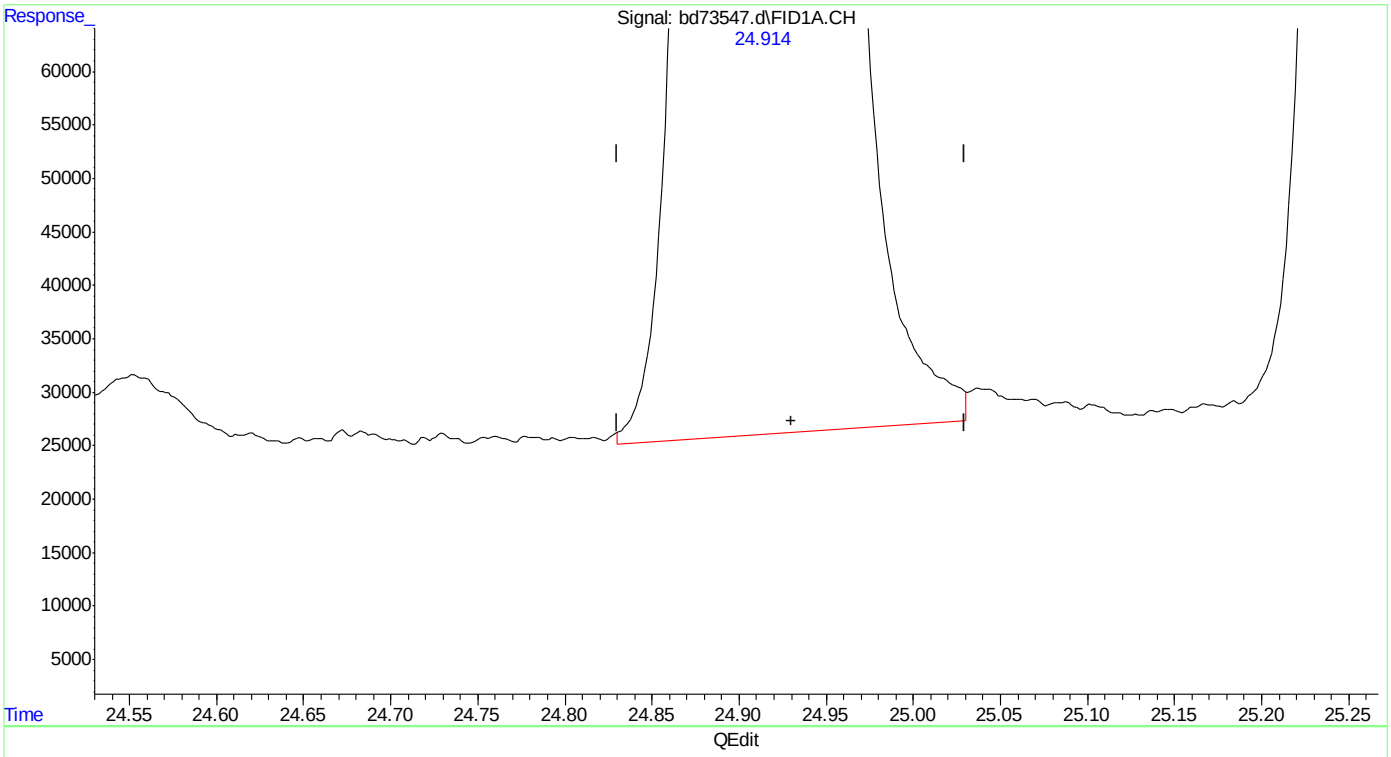
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) decane (h)
24.930min 41.548 ppb
response 33247914

(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:54:28 2016

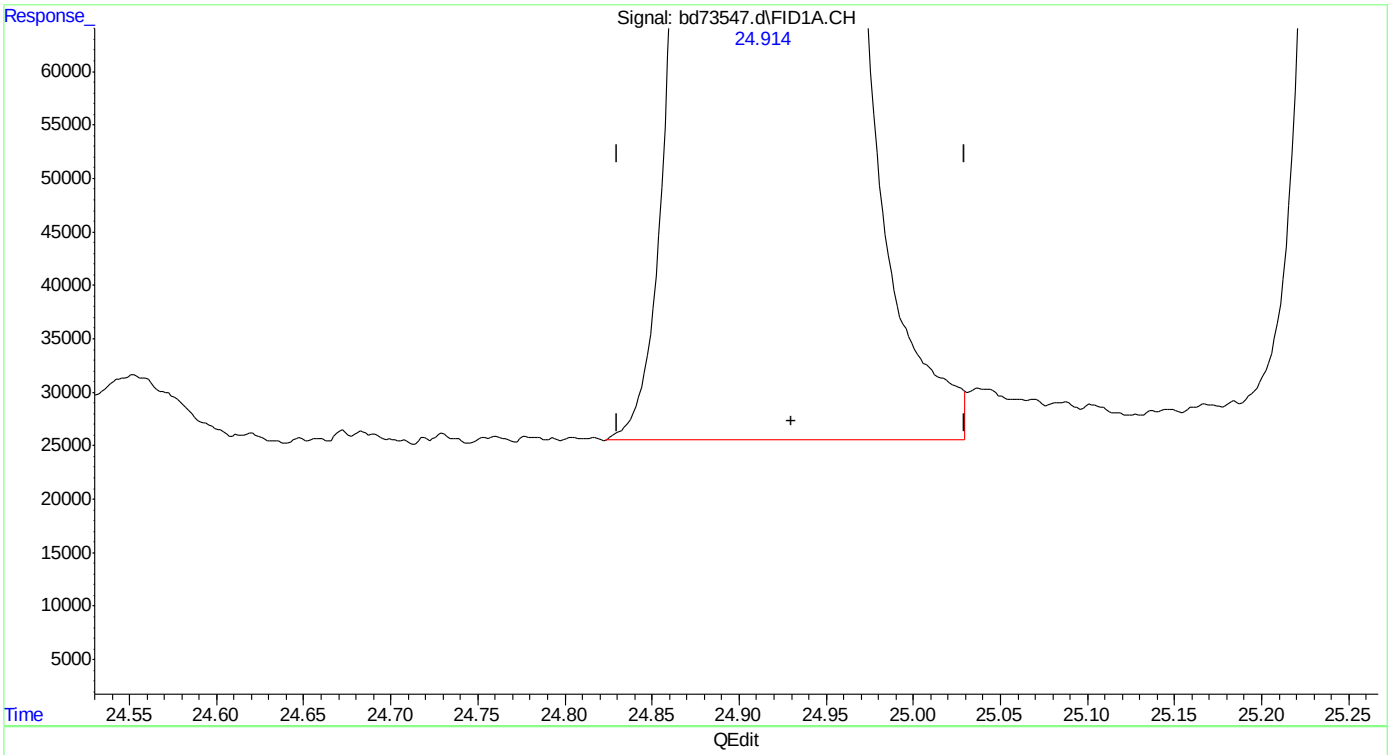
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 11:17:17
Operator  : danielf
Sample    : bsd,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(10) decane (h)

24.930min 41.641 ppb m

response 33322088

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:54:34 2016

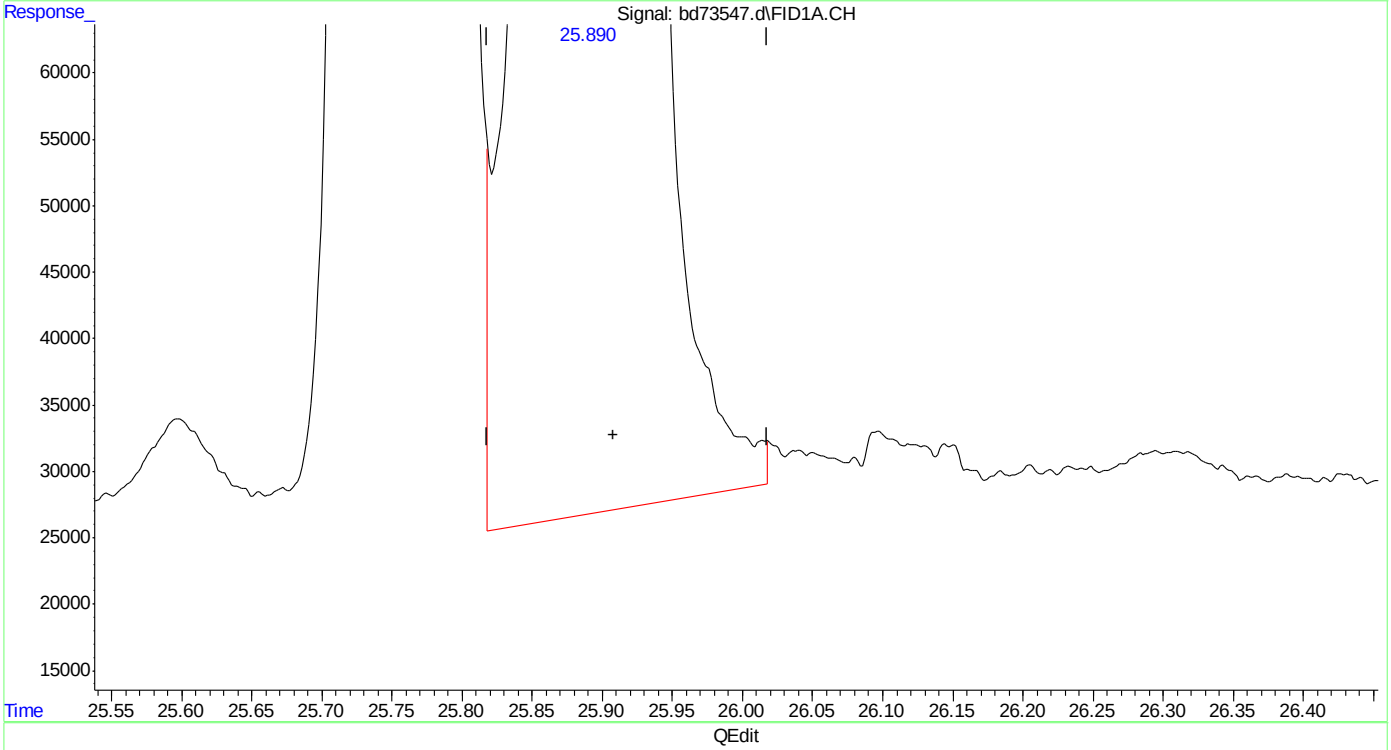
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(11) butylcyclohexane (h)
25.908min 48.241 ppb
response 38603492

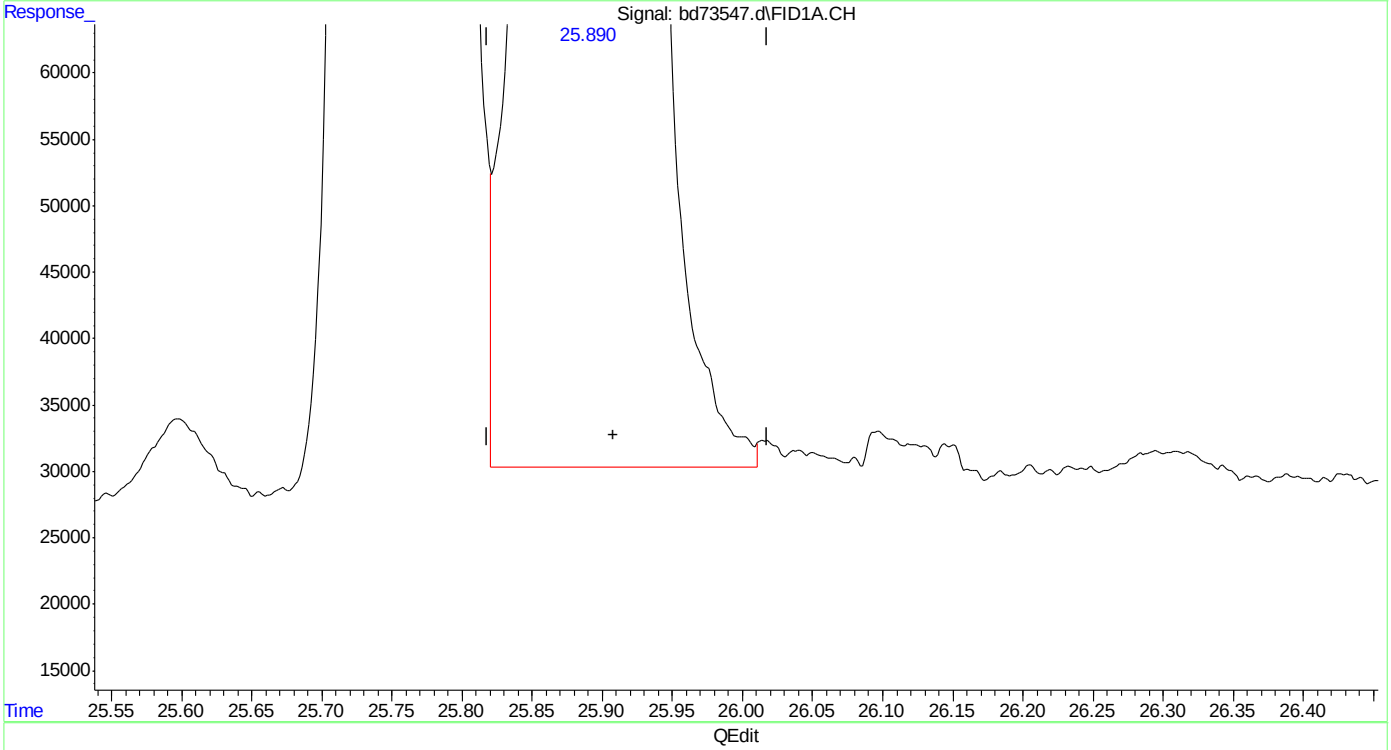
(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:54:39 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(11) butylcyclohexane (h)
25.908min 47.729 ppb m
response 38193788

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:54:49 2016

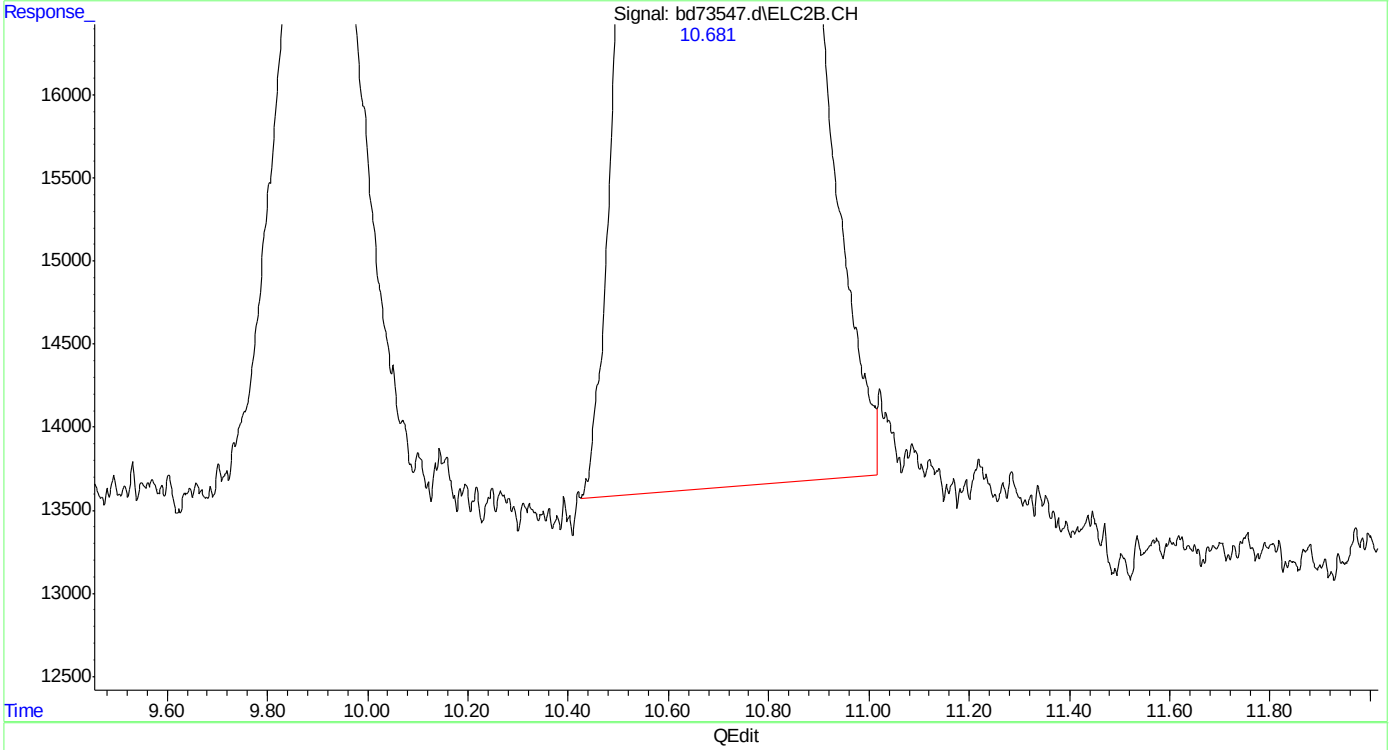
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.681min 50.683 ppb
response 7810654

(+) = Expected Retention Time

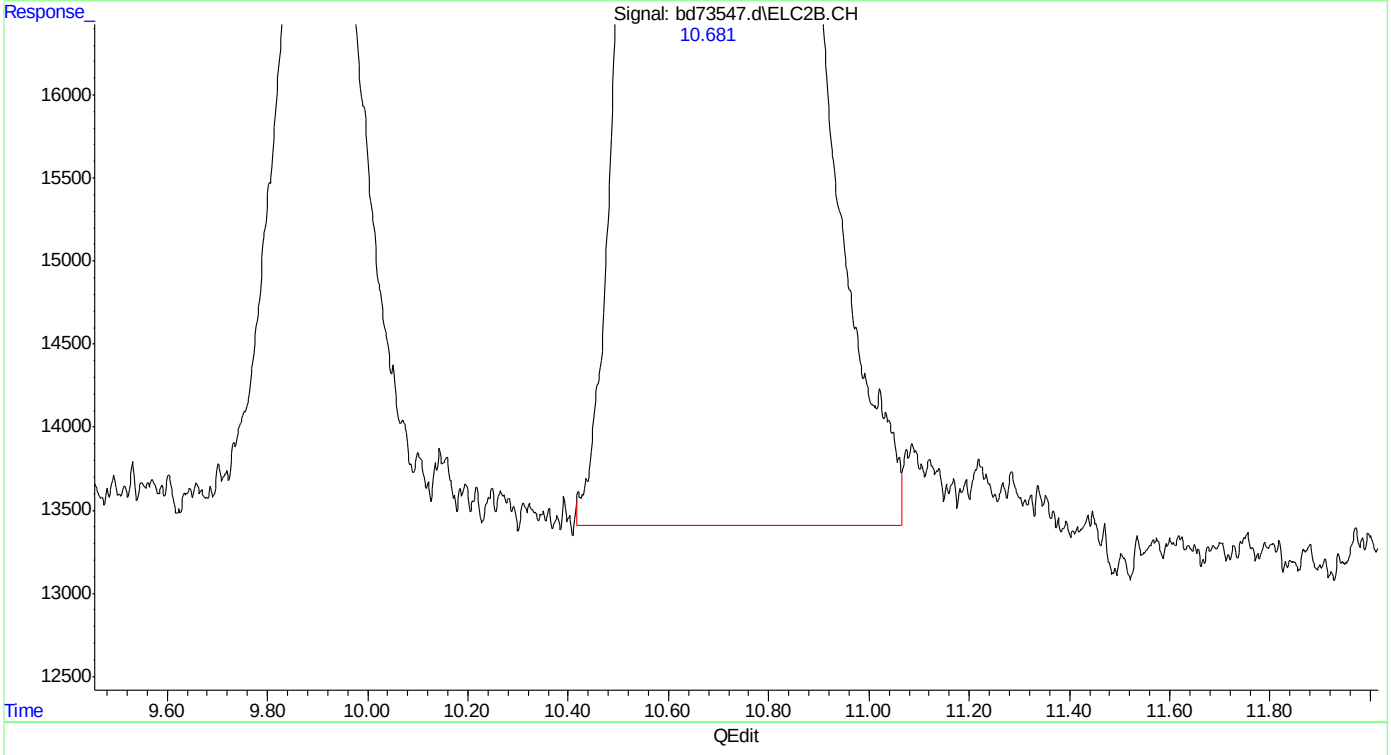
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.681min 51.334 ppb m
response 7910987

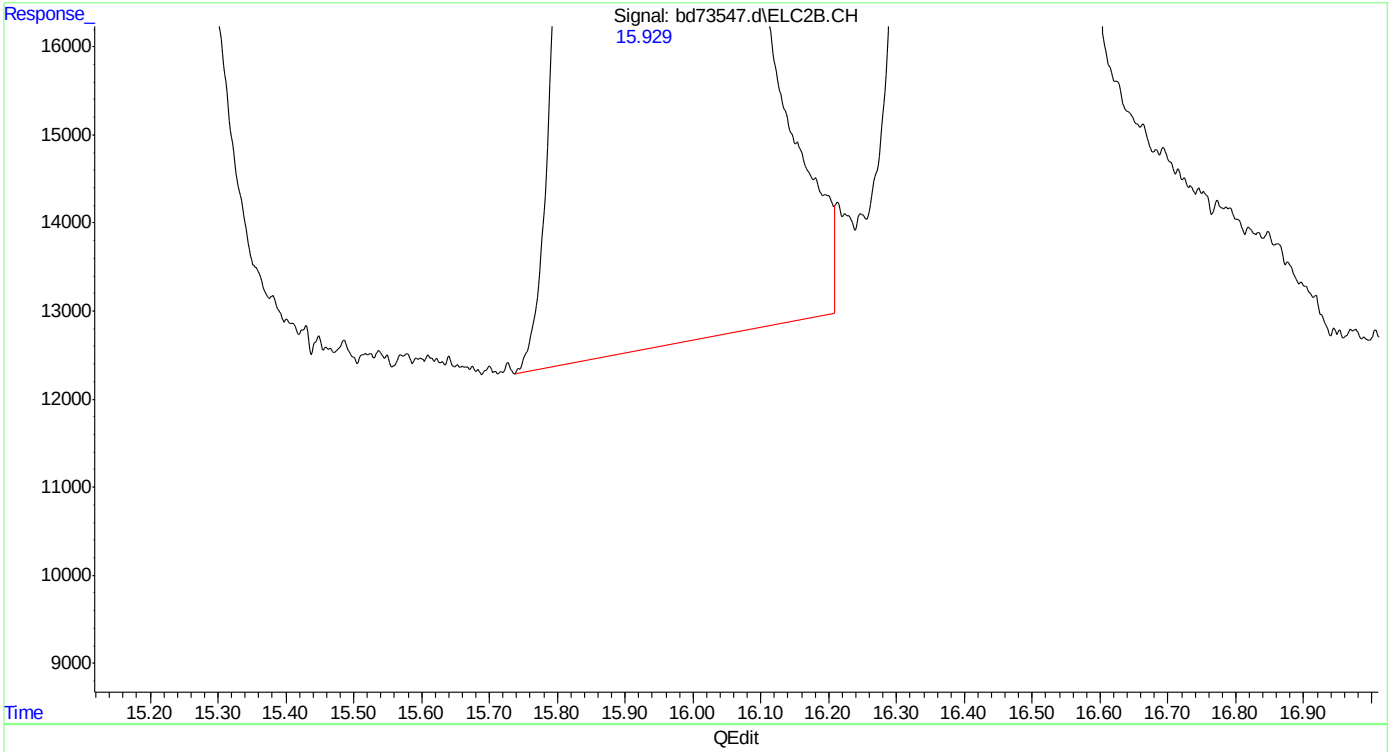
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
15.930min 48.731 ppb
response 23566596

(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:55:10 2016

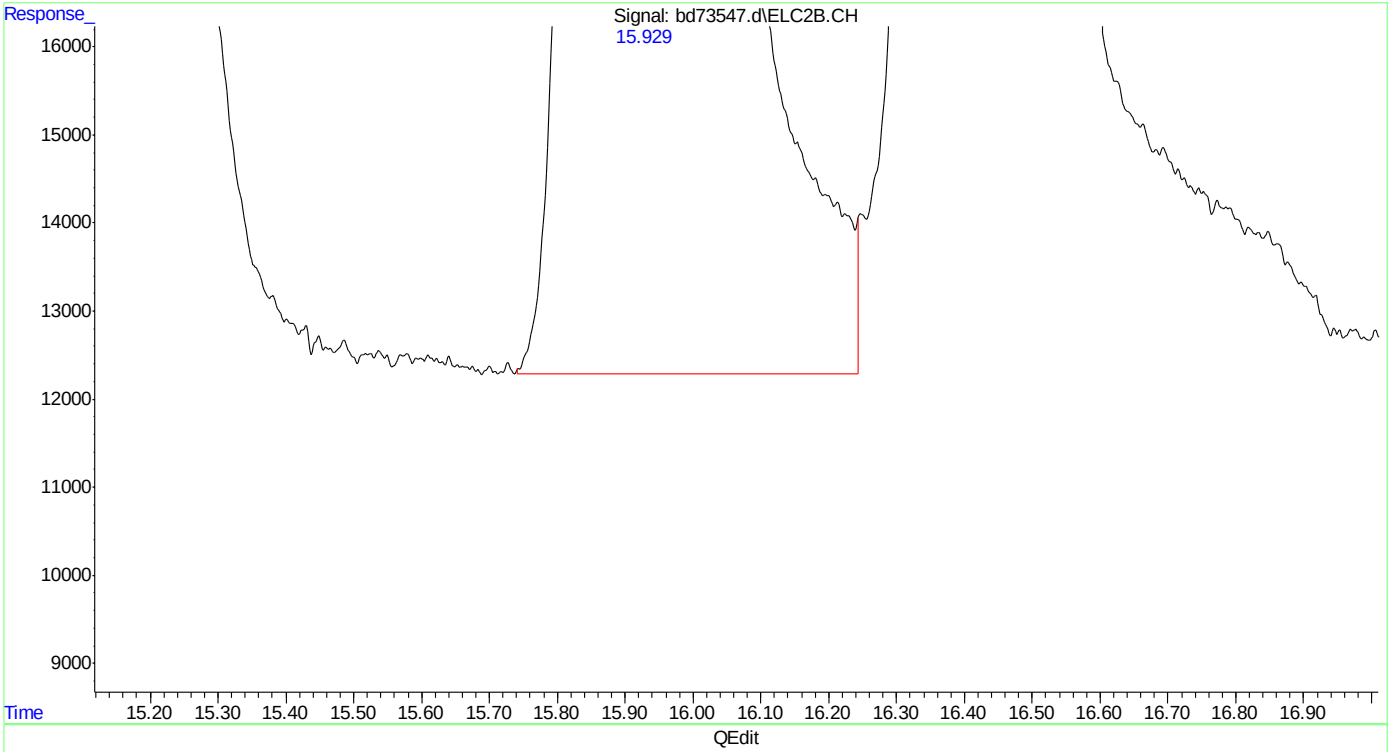
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) benzene #2
15.929min 49.005 ppb m
response 23698760

(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:55:18 2016

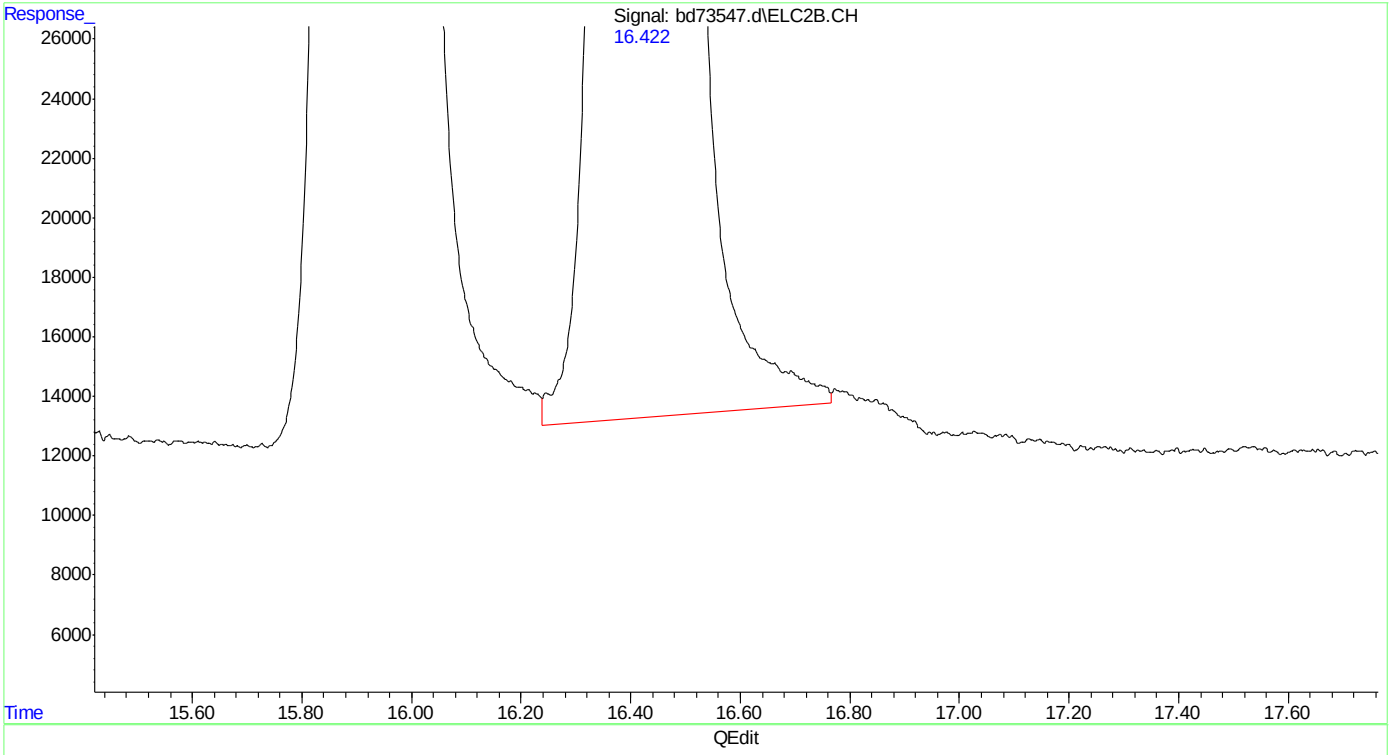
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) fluorobenzene #2 (s)
16.423min 45.281 ppb
response 15361682

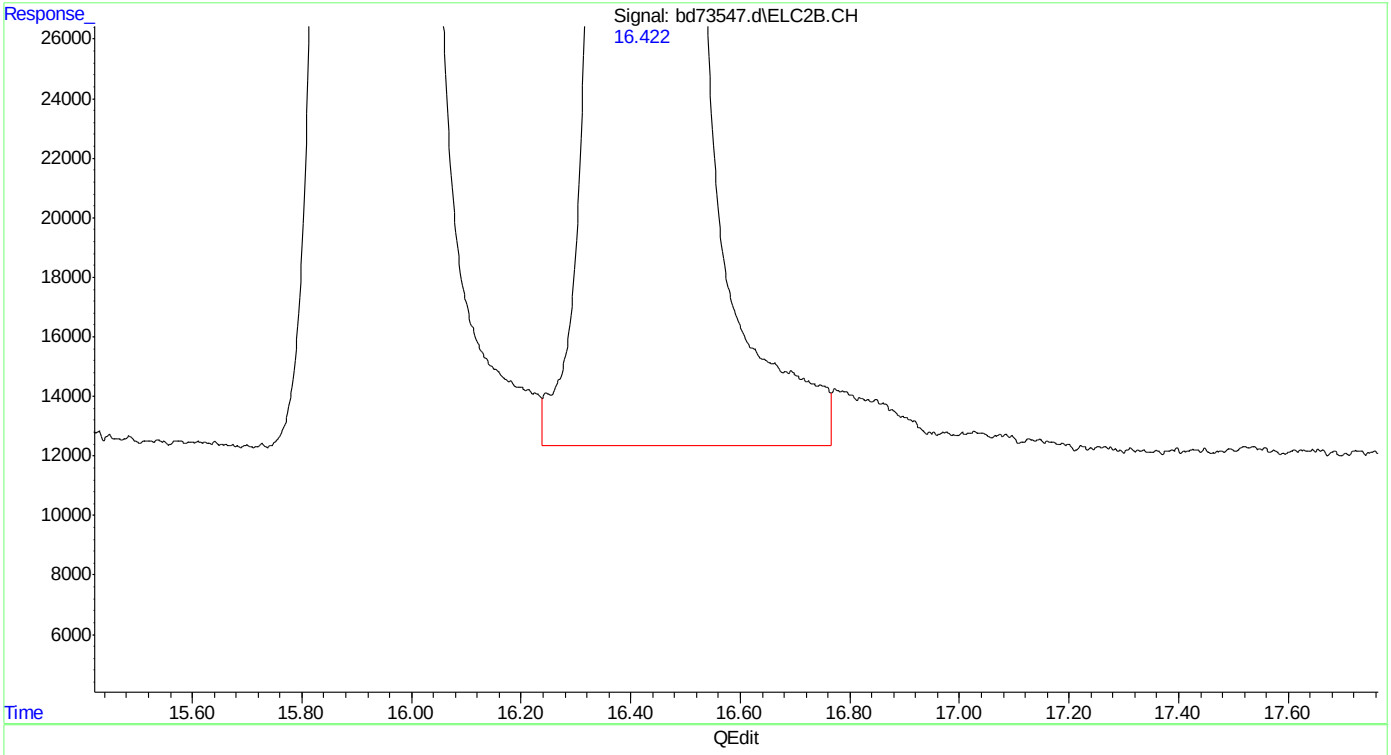
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) fluorobenzene #2 (s)
16.422min 46.269 ppb m
response 15696849

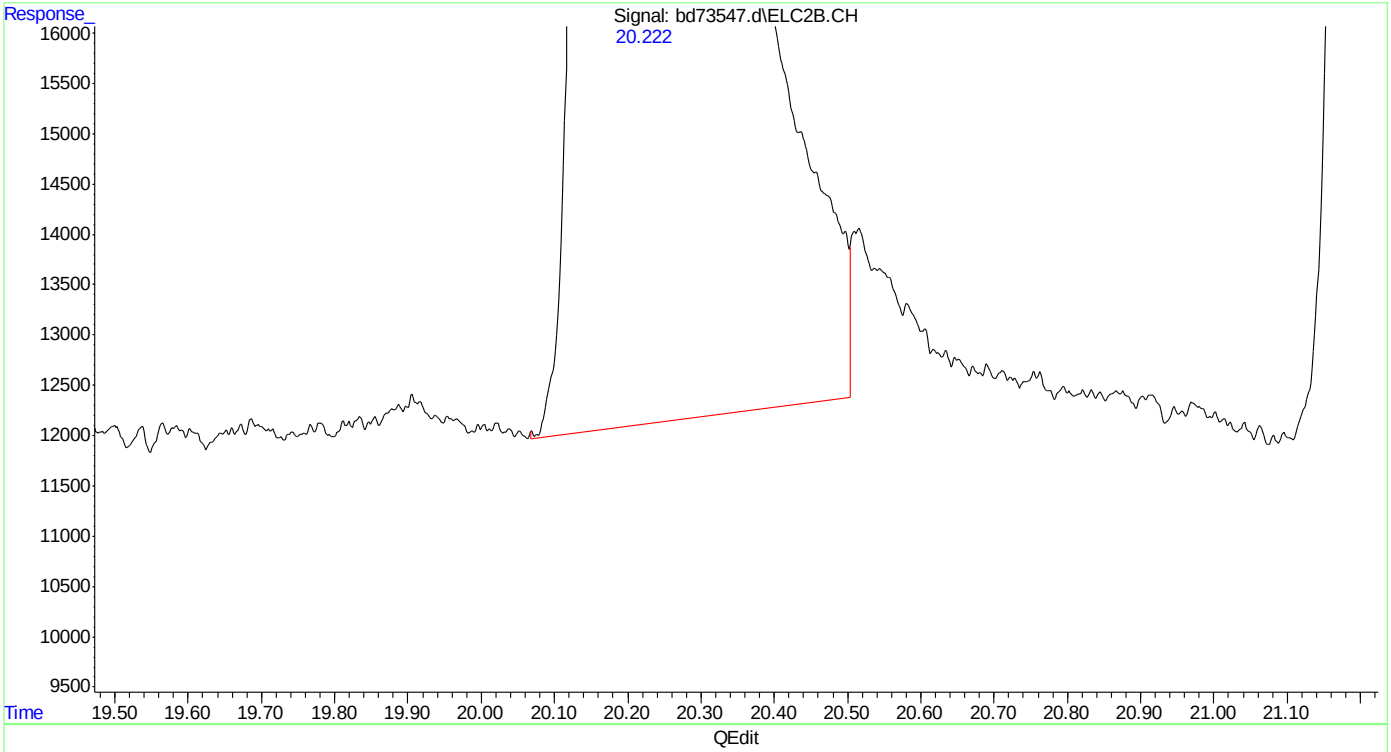
(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:55:31 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
20.223min 48.329 ppb
response 21879550

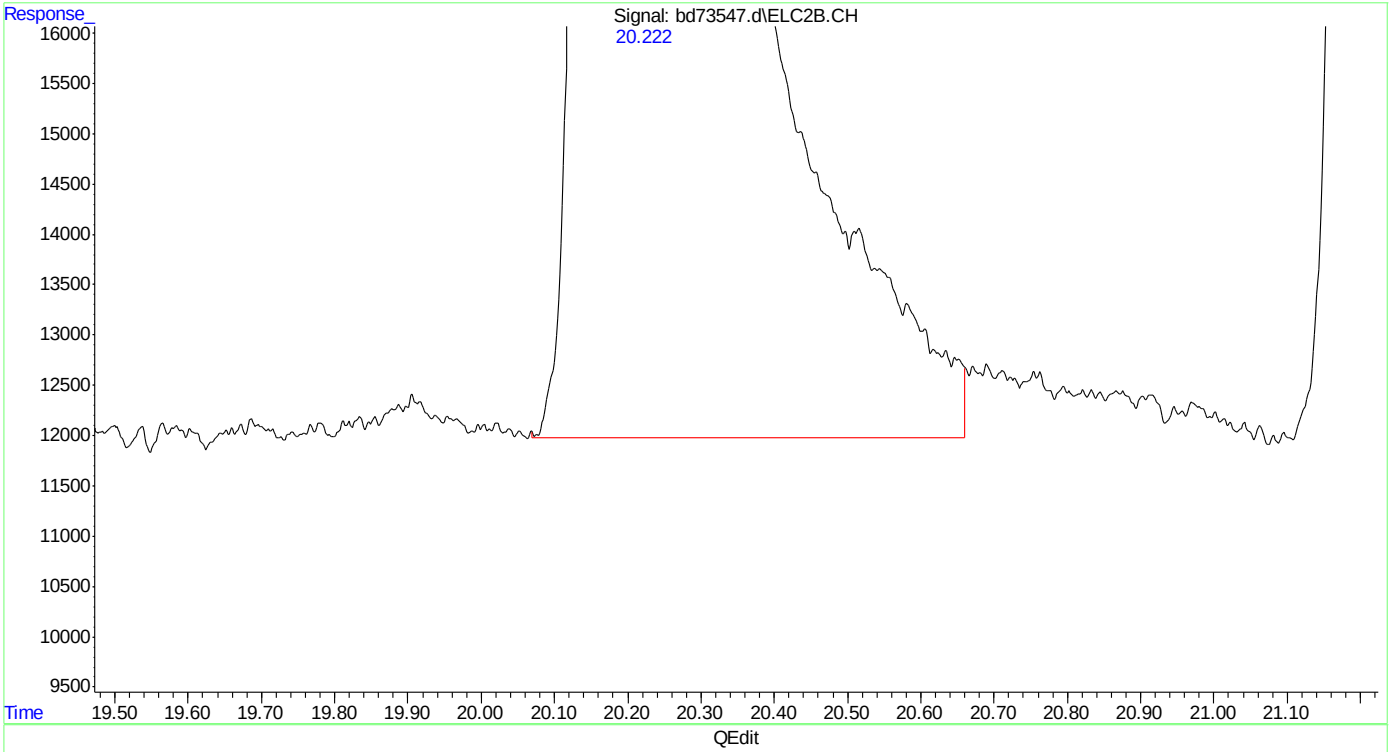
(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:55:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) toluene #2
20.222min 48.718 ppb m
response 22055349

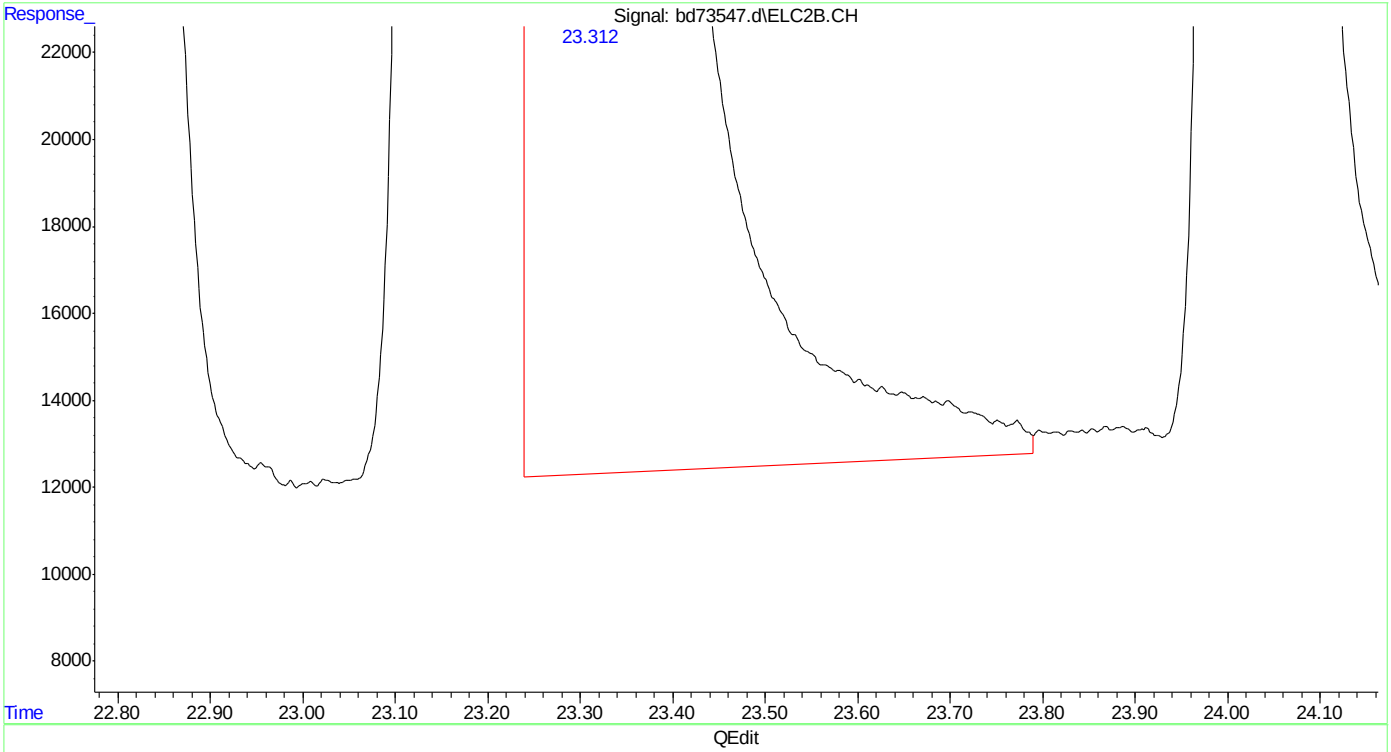
(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:55:47 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 11:17:17
Operator  : danielf
Sample    : bsd,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(20) m,p-xylene #2

23.313min 94.928 ppb

response 47316225

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:55:55 2016

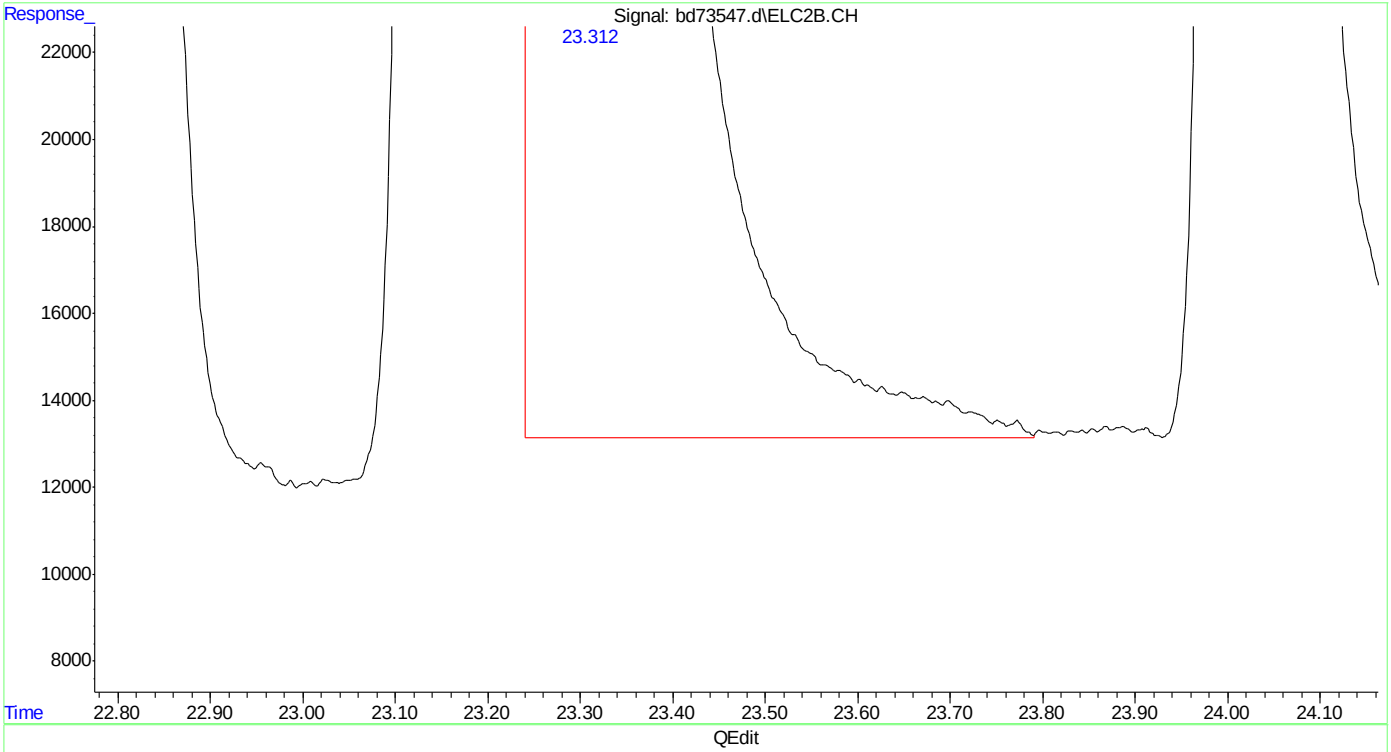
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
23.312min 94.355 ppb m
response 47030815

(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:56:03 2016

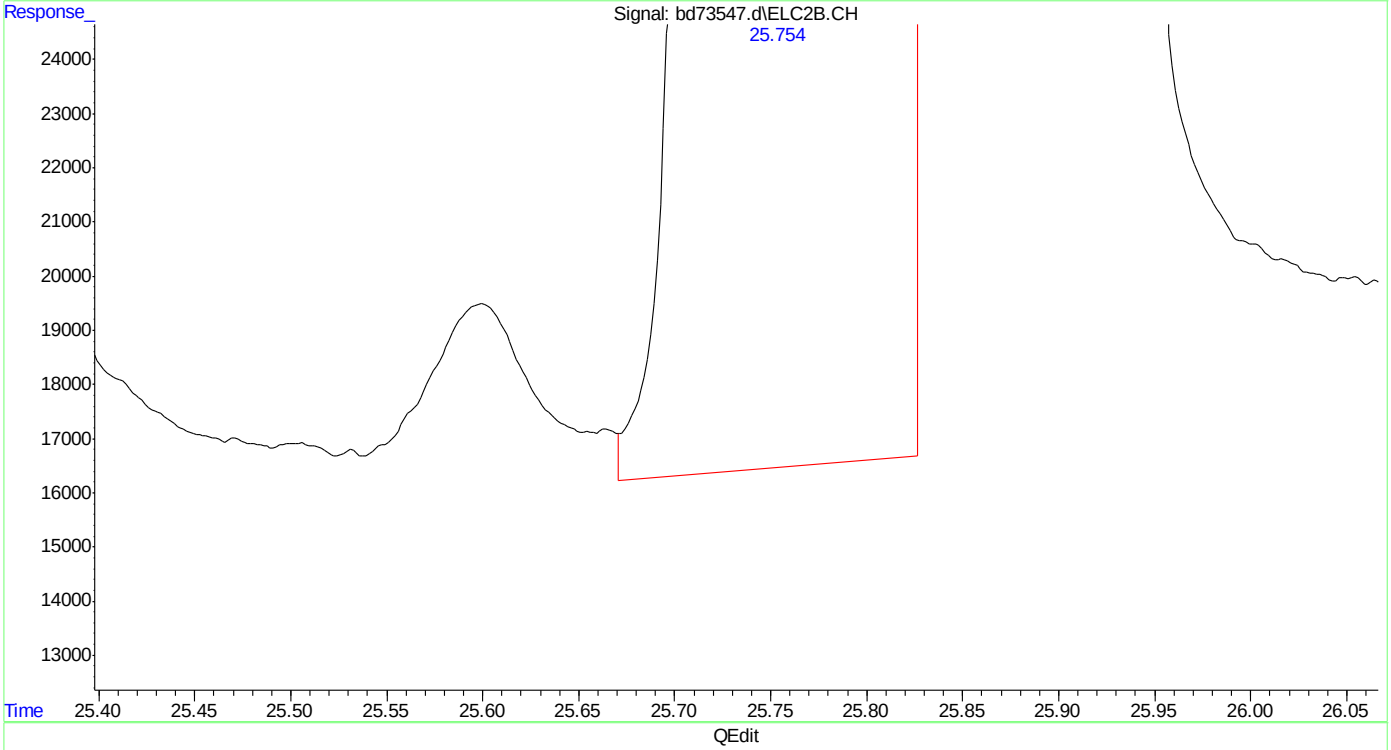
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.754min 45.513 ppb
response 22386572

(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:56:12 2016

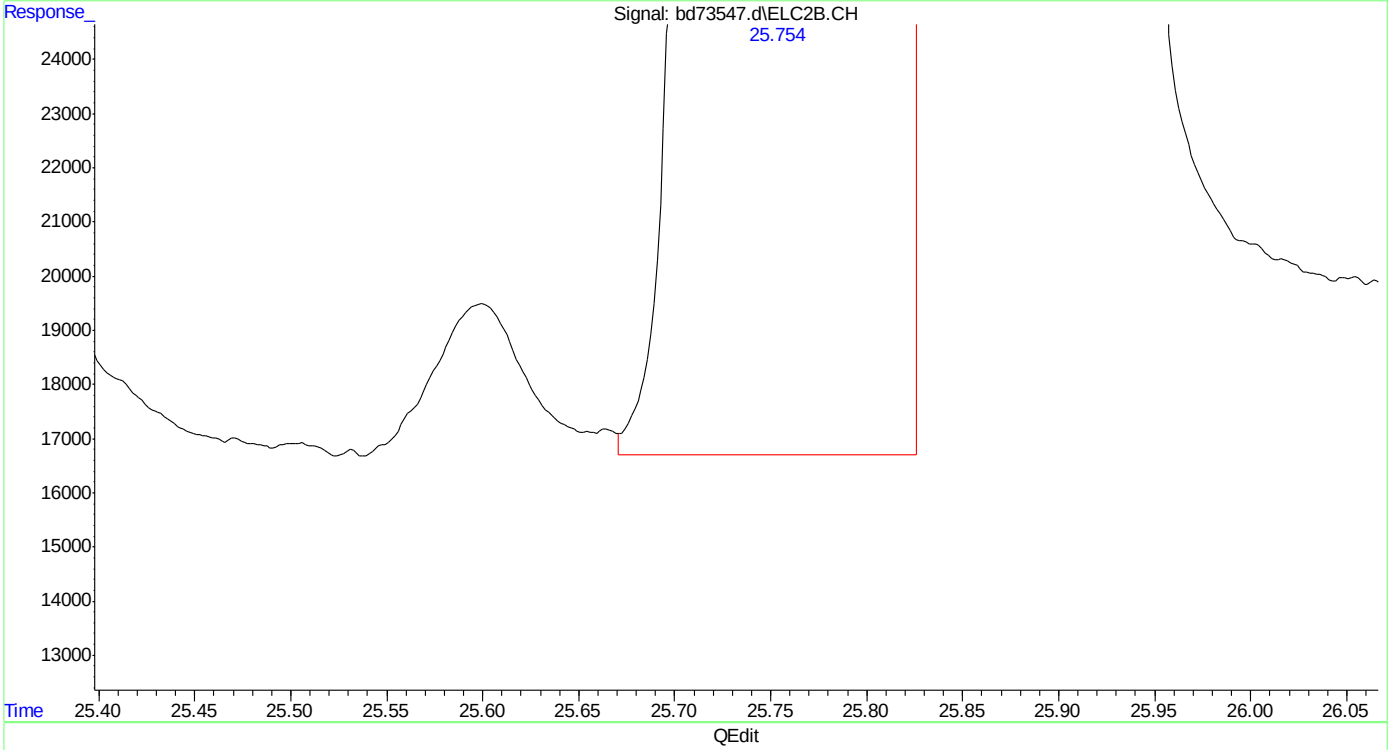
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 11:17:17
Operator : danielf
Sample : bsd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.754min 45.443 ppb m
response 22352321

(+) = Expected Retention Time
bd160513vph.M Fri May 13 11:56:24 2016

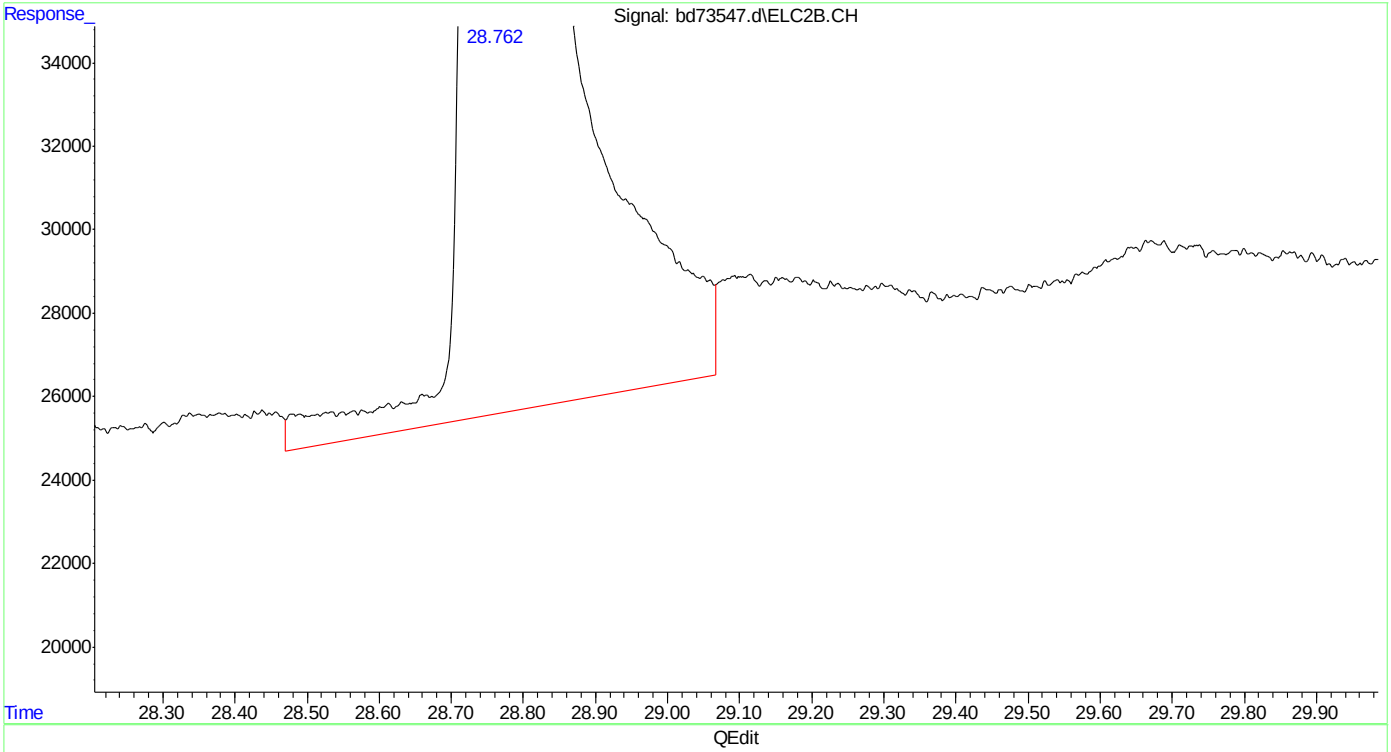
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 11:17:17
Operator  : danielf
Sample    : bsd,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.762min 52.748 ppb

response 19031167

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:56:29 2016

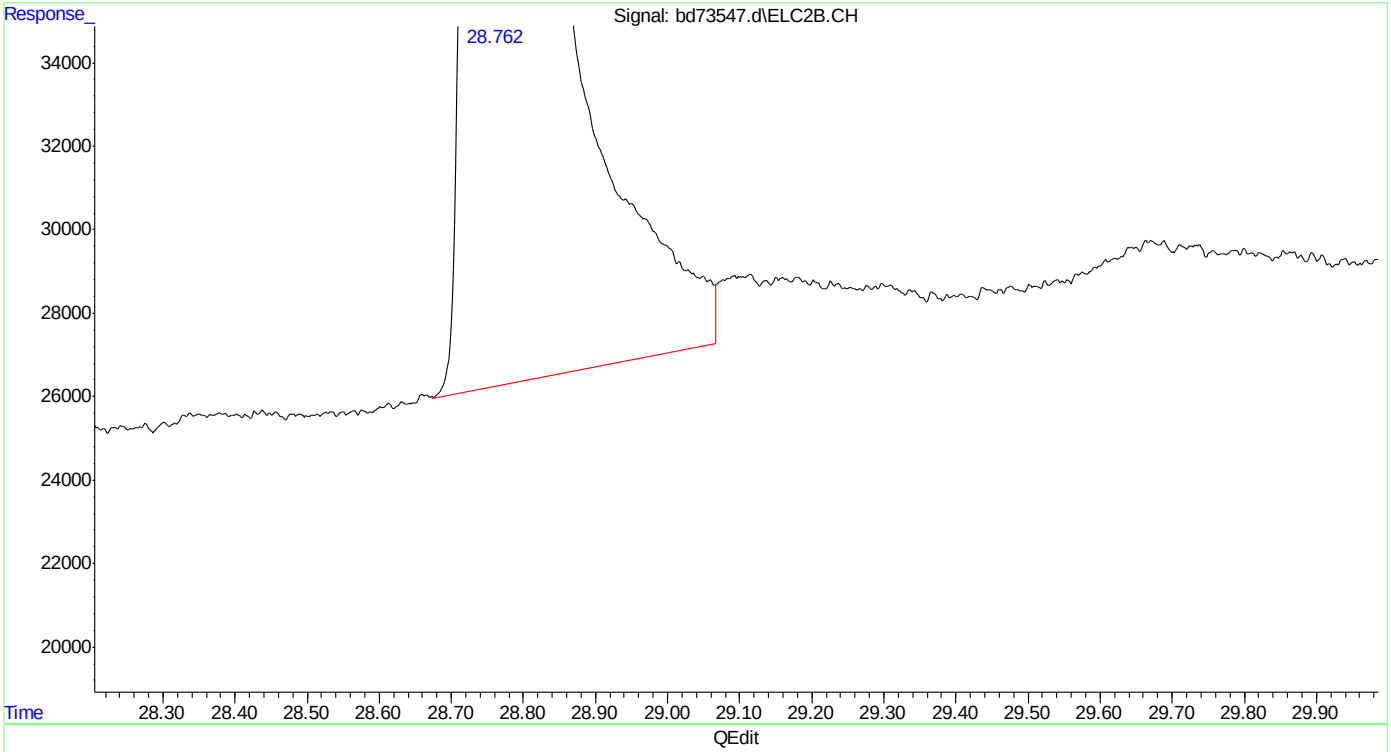
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73547.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 11:17:17
Operator  : danielf
Sample    : bsd,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 11:50:51 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.762min 52.072 ppb m

response 18784776

(+) = Expected Retention Time

bd160513vph.M Fri May 13 11:56:36 2016

SGS ACCUTEST MC45897

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/16/16 14:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73576c.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 10:30:20
Operator : tonyf
Sample : bsp1,w,vmavph,00 (Sig #1); bsp,w,vmavph,00 (Sig #2)
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:06:05 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.424	35986098	52.889 ppb	
Spiked Amount 50.000		Recovery	= 105.78%	
6) s 2,3,4-trifluorotoluene	21.241	27833735	53.423 ppb	
Spiked Amount 50.000		Recovery	= 106.85%	
16) s fluorobenzene #2	16.424	14831518	43.718 ppb	
Spiked Amount 50.000		Recovery	= 87.44%	
18) s 2,3,4-trifluorotoluen...	21.240	8622008	43.799 ppb	
Spiked Amount 50.000		Recovery	= 87.60%	
Target Compounds				
1) h rt5.5-7	7.470	25735505	41.728 ppb	m
2) h rt7/10	9.920	31691848	51.386 ppb	m
3) h rt10/13	15.200	27221217	44.137 ppb	m
8) h rt20/25	22.840	30979850	38.714 ppb	m
10) h decane	24.930	28517236	35.637 ppb	
11) h butylcyclohexane	25.908	33973832	42.455 ppb	m
14) mtbe #2	10.680f	7574580	49.151 ppb	m
15) benzene #2	15.931	23030078	47.622 ppb	
17) toluene #2	20.223	21597140	47.705 ppb	
19) ethylbenzene #2	23.176	19246746	46.376 ppb	
20) m,p-xylene #2	23.312	46787786	93.868 ppb	
21) o-xylene #2	24.033	19758804	45.445 ppb	
22) t 1,3,5-trimethylbenzen...	25.276	27900363	41.578 ppb	
23) 1,2,4-trimethylbenzen...	25.754	21931954	44.588 ppb	
24) naphthalene #2	28.761	17198106	47.721 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21913296	44.571 ppb	m

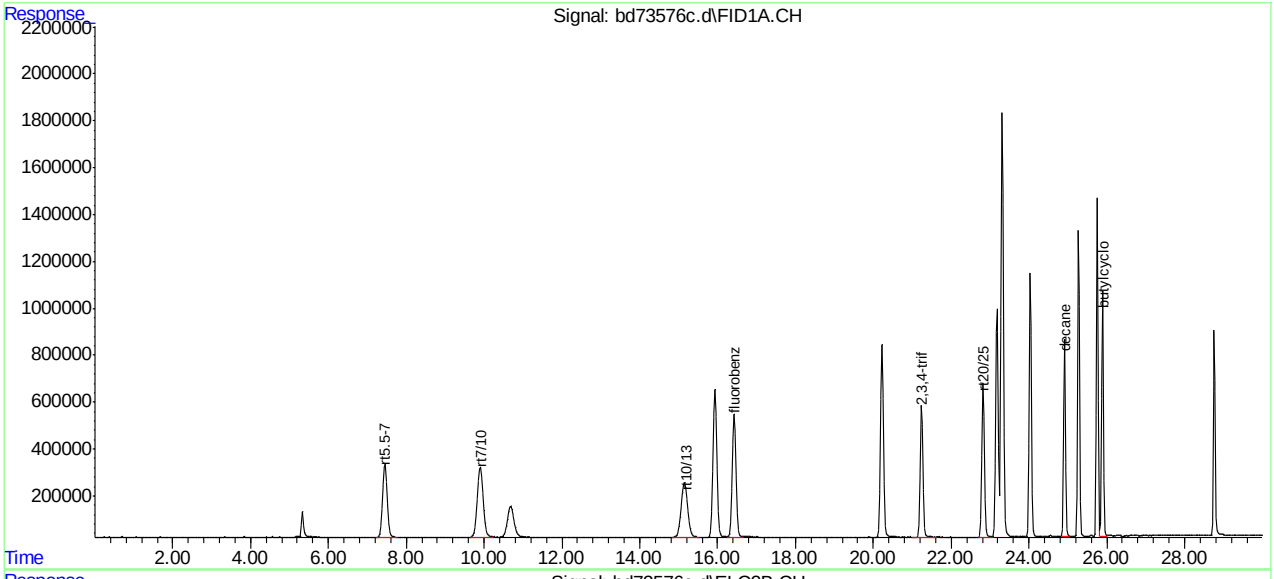
(f)=RT Delta > 1/2 Window (m)=manual int.

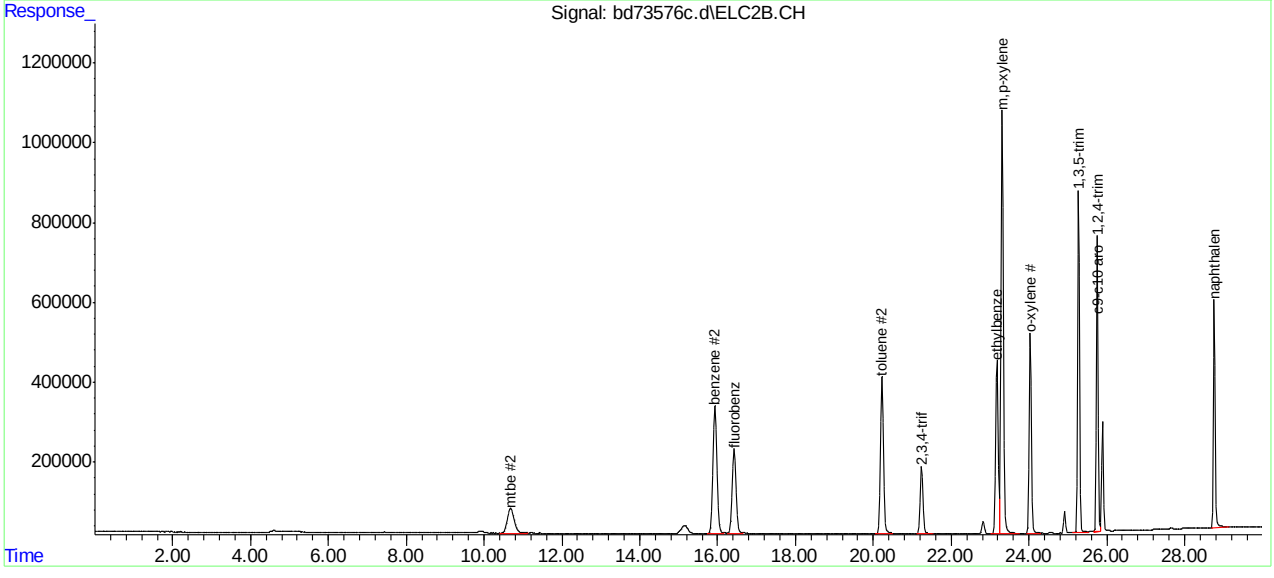
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73576c.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 10:30:20
Operator : tonyf
Sample : bsp1,w,vmavph,00 (Sig #1); bsp,w,vmavph,00 (Sig #2)
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

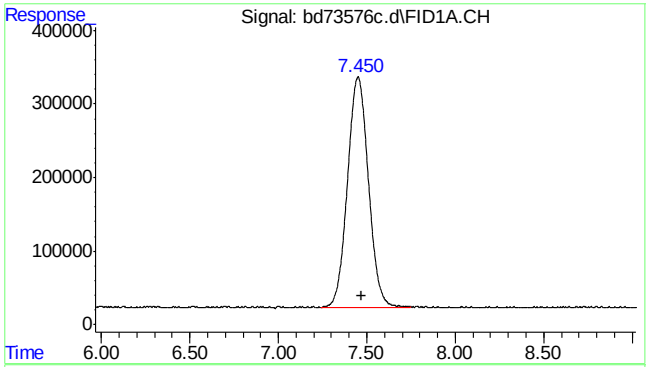
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:06:05 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



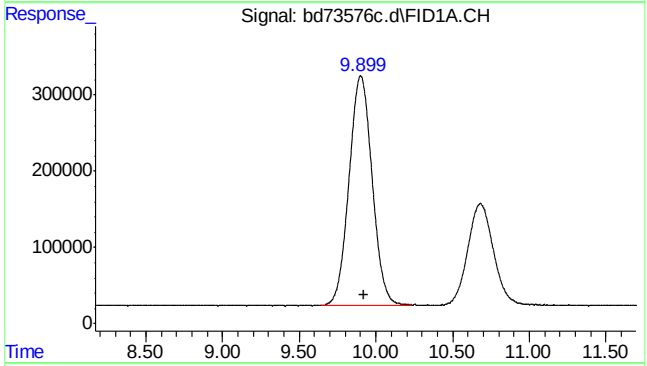


SGS ACCUTEST MC45897



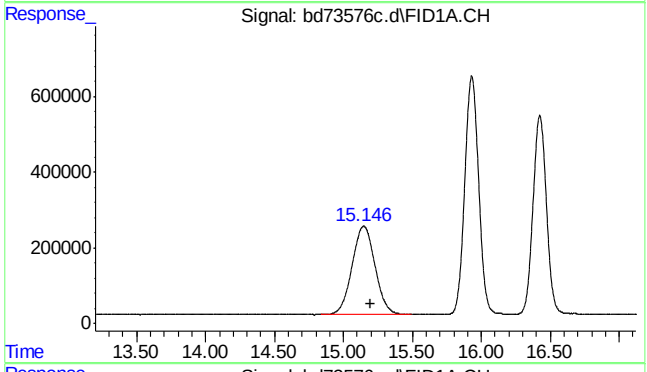
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 25735505
Conc: 41.73 ppb m



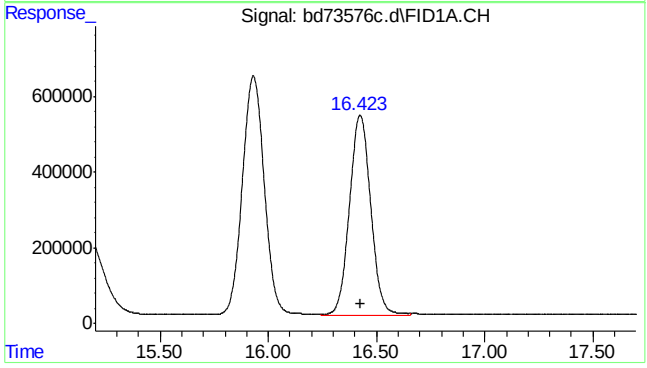
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 31691848
Conc: 51.39 ppb m



#3 rt10/13

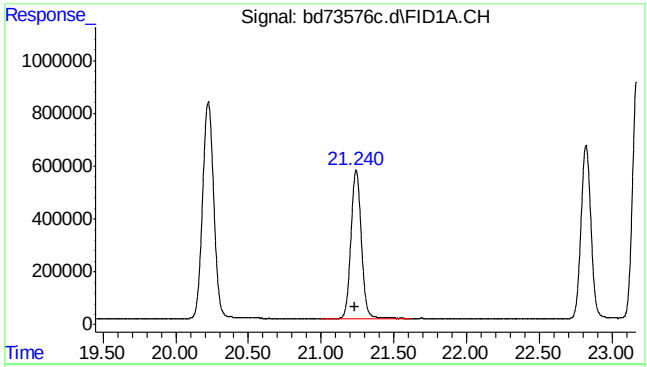
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 27221217
Conc: 44.14 ppb m



#4 fluorobenzene

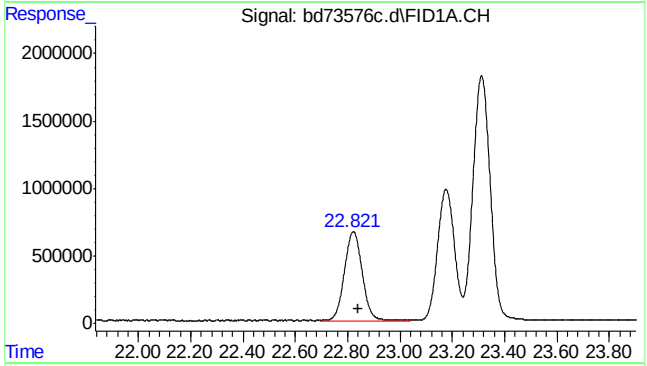
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 35986098
Conc: 52.89 ppb

SGS ACCUTEST MC45897



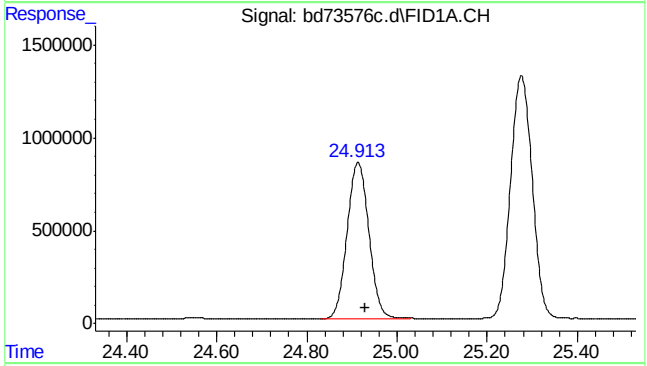
#6 2,3,4-trifluorotoluene

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 27833735
Conc: 53.42 ppb



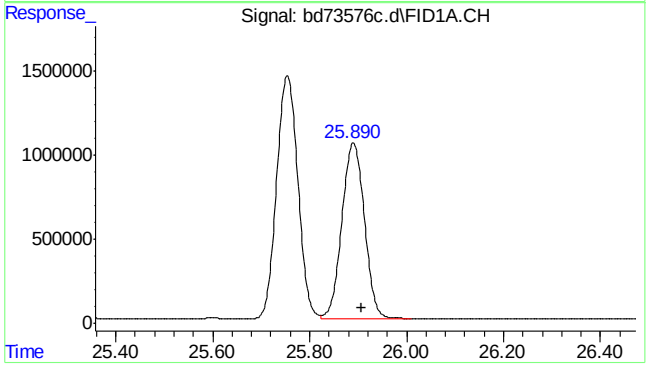
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 30979850
Conc: 38.71 ppb m



#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 28517236
Conc: 35.64 ppb



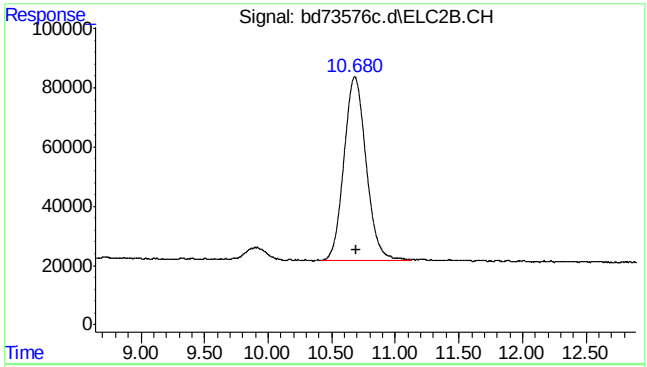
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 33973832
Conc: 42.46 ppb m

7.3.3

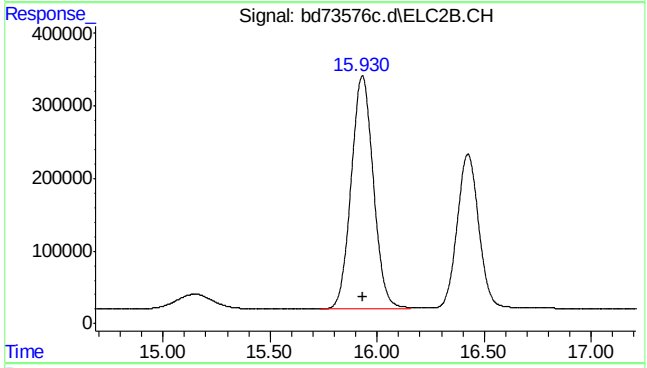
7

SGS ACCUTEST MC45897



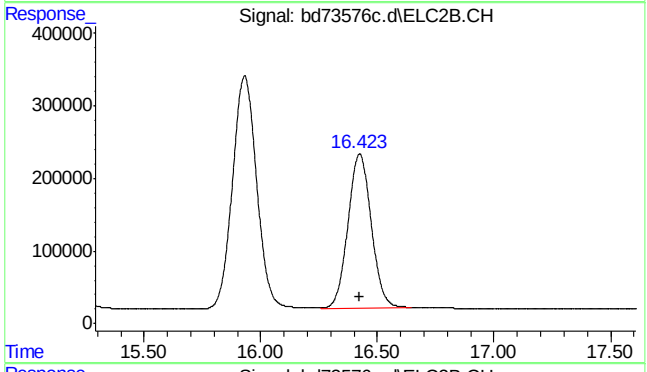
#14 mtbe #2

R.T.: 10.680 min
Delta R.T.: -0.016 min
Response: 7574580
Conc: 49.15 ppb m



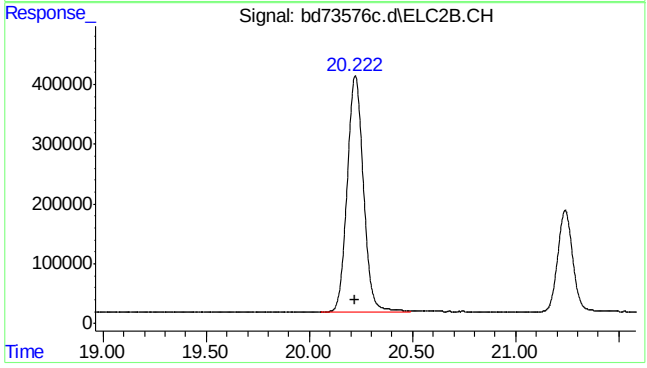
#15 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 23030078
Conc: 47.62 ppb



#16 fluorobenzene #2

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 14831518
Conc: 43.72 ppb



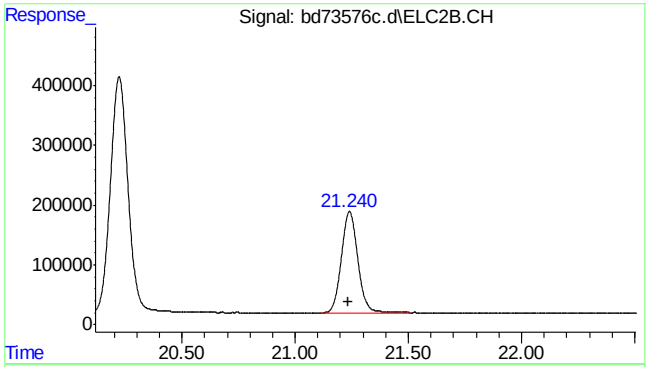
#17 toluene #2

R.T.: 20.223 min
Delta R.T.: 0.002 min
Response: 21597140
Conc: 47.71 ppb

7.3.3

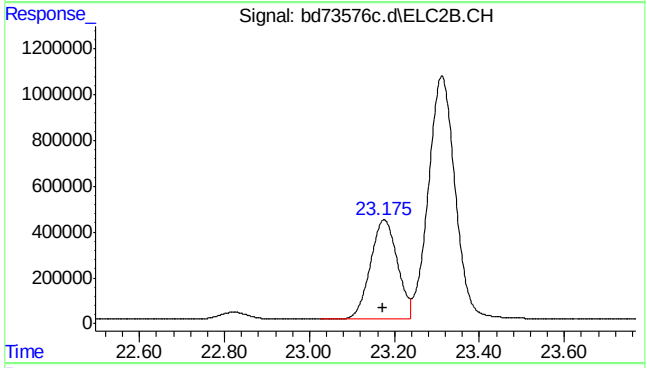
7

SGS ACCUTEST MC45897



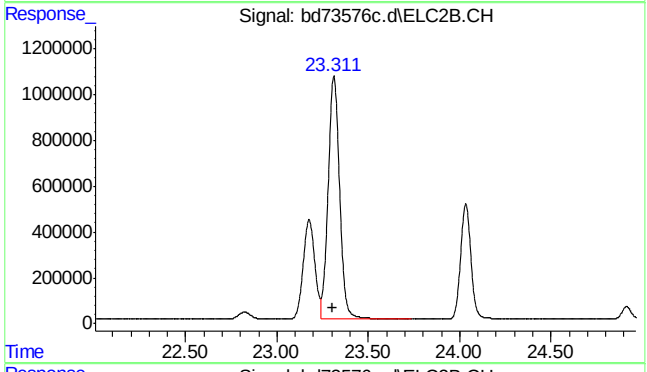
#18 2,3,4-trifluorotoluene #2

R.T.: 21.240 min
Delta R.T.: 0.003 min
Response: 8622008
Conc: 43.80 ppb



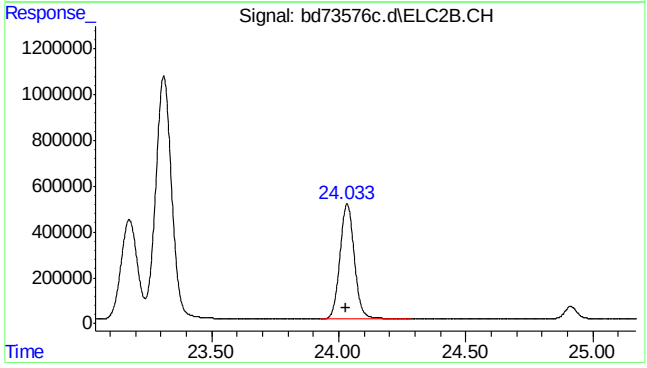
#19 ethylbenzene #2

R.T.: 23.176 min
Delta R.T.: 0.004 min
Response: 19246746
Conc: 46.38 ppb



#20 m,p-xylene #2

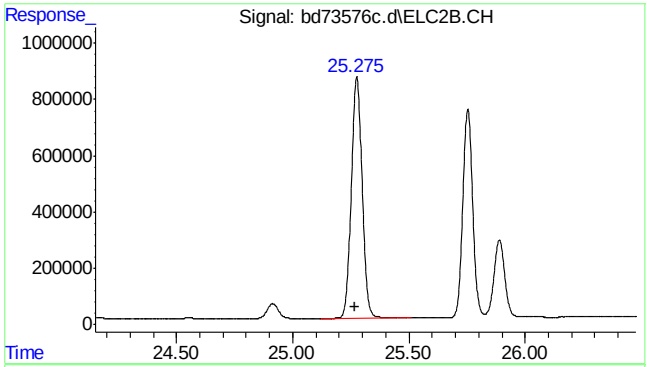
R.T.: 23.312 min
Delta R.T.: 0.005 min
Response: 46787786
Conc: 93.87 ppb



#21 o-xylene #2

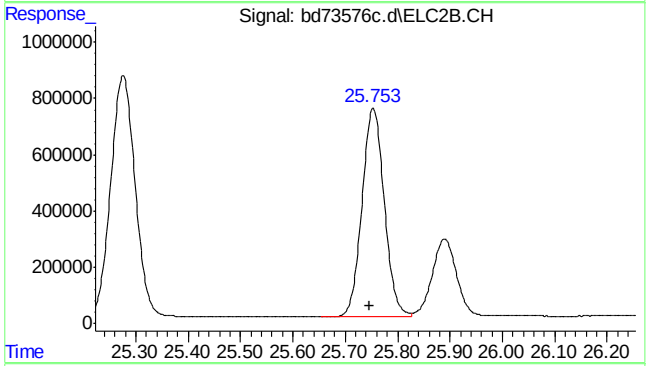
R.T.: 24.033 min
Delta R.T.: 0.005 min
Response: 19758804
Conc: 45.44 ppb

SGS ACCUTEST MC45897



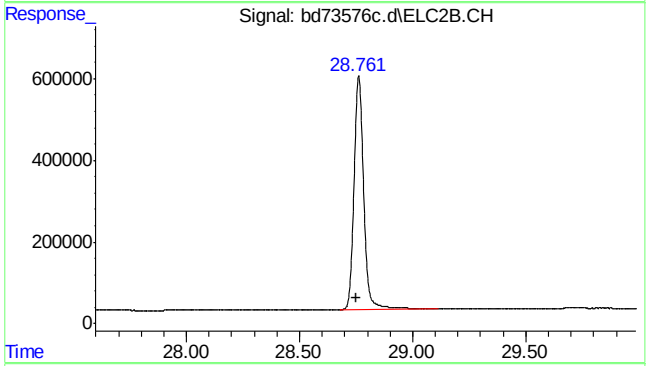
#22 1,3,5-trimethylbenzene #2

R.T.: 25.276 min
Delta R.T.: 0.008 min
Response: 27900363
Conc: 41.58 ppb



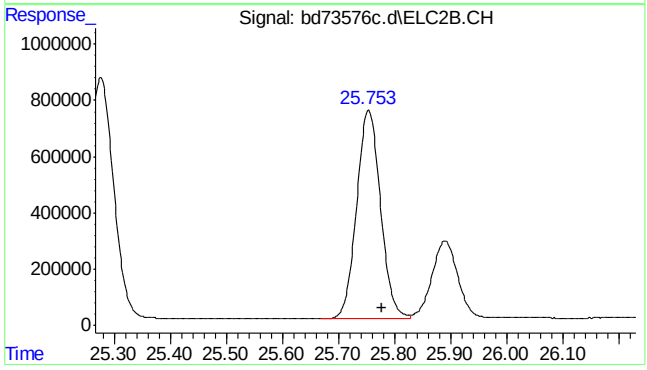
#23 1,2,4-trimethylbenzene #2

R.T.: 25.754 min
Delta R.T.: 0.008 min
Response: 21931954
Conc: 44.59 ppb



#24 naphthalene #2

R.T.: 28.761 min
Delta R.T.: 0.011 min
Response: 17198106
Conc: 47.72 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21913296
Conc: 44.57 ppb m

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/16/16 14:41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73577c.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 11:07:34
Operator : tonyf
Sample : bsd1,w,vmavph,00 (Sig #1); bsd,w,vmavph,00 (Sig #2)
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:58:13 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.424	35925961	52.801 ppb	
Spiked Amount 50.000		Recovery	= 105.60%	
6) s 2,3,4-trifluorotoluene	21.241	27861647	53.477 ppb	
Spiked Amount 50.000		Recovery	= 106.95%	
16) s fluorobenzene #2	16.424	14992413	44.192 ppb	
Spiked Amount 50.000		Recovery	= 88.38%	
18) s 2,3,4-trifluorotoluen...	21.240	8778078	44.591 ppb	
Spiked Amount 50.000		Recovery	= 89.18%	
Target Compounds				
1) h rt5.5-7	7.470	26548933	43.047 ppb	m
2) h rt7/10	9.920	32187887	52.190 ppb	m
3) h rt10/13	15.200	28286887	45.865 ppb	m
8) h rt20/25	22.840	33101451	41.365 ppb	m
10) h decane	24.930	30626414	38.272 ppb	
11) h butylcyclohexane	25.908	36345891	45.420 ppb	m
14) mtbe #2	10.679f	7575142	49.155 ppb	m
15) benzene #2	15.930	23203203	47.980 ppb	
17) toluene #2	20.223	21832920	48.226 ppb	
19) ethylbenzene #2	23.177	19404890	46.757 ppb	
20) m,p-xylene #2	23.312	47148386	94.591 ppb	
21) o-xylene #2	24.034	19900927	45.772 ppb	
22) t 1,3,5-trimethylbenzen...	25.276	28312792	42.193 ppb	
23) 1,2,4-trimethylbenzen...	25.754	22279890	45.296 ppb	
24) naphthalene #2	28.761	18366077	50.924 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	22275359	45.307 ppb	m

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

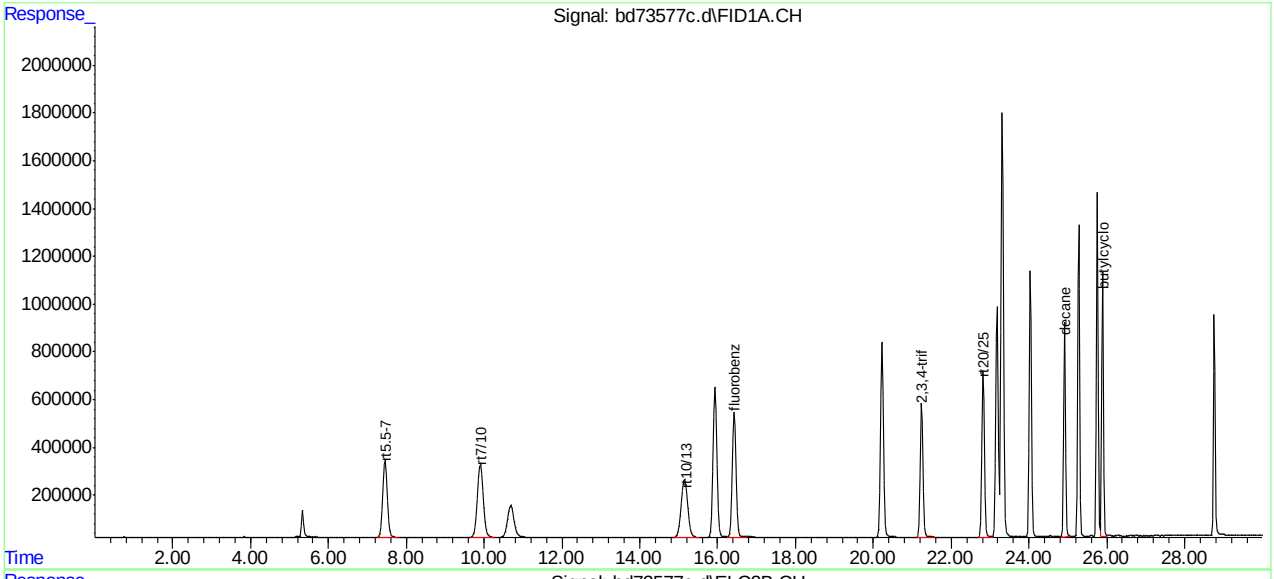
SGS ACCUTEST MC45897

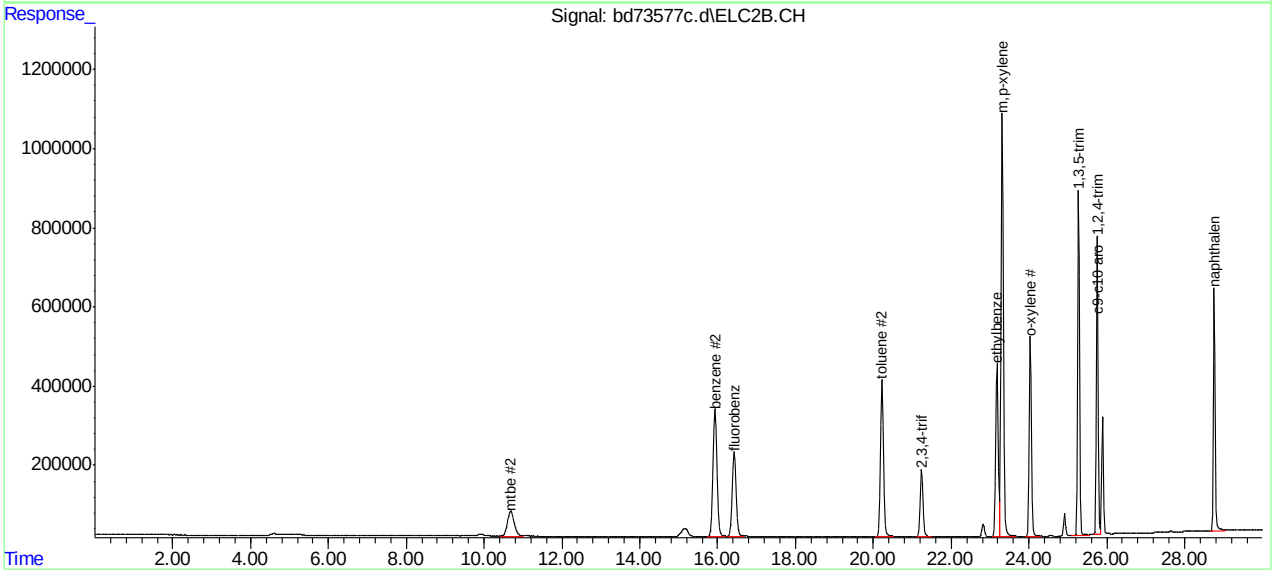
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73577c.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 11:07:34
Operator : tonyf
Sample : bsd1,w,vmavph,00 (Sig #1); bsd,w,vmavph,00 (Sig #2)
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

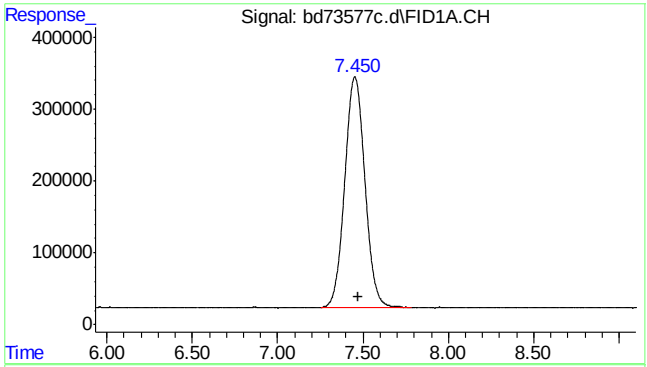
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:58:13 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



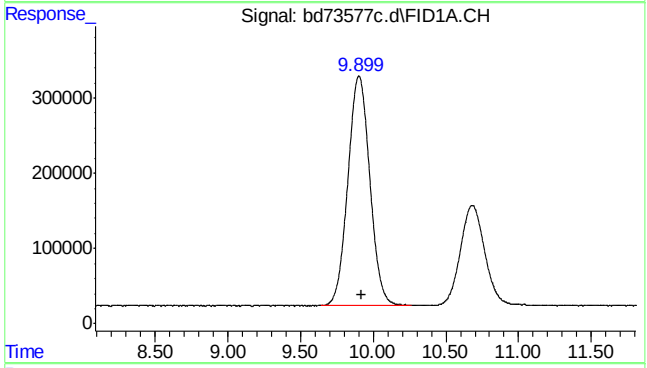


SGS ACCUTEST MC45897



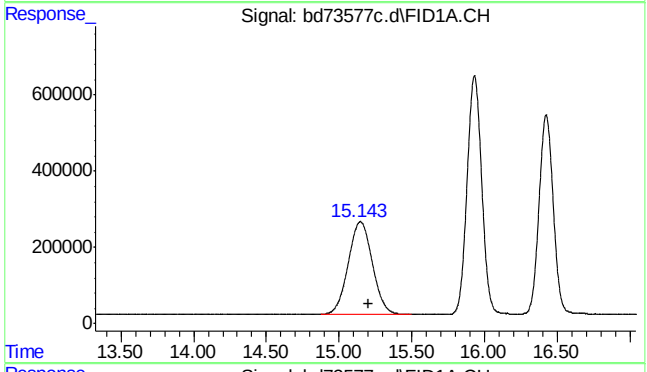
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 26548933
Conc: 43.05 ppb m



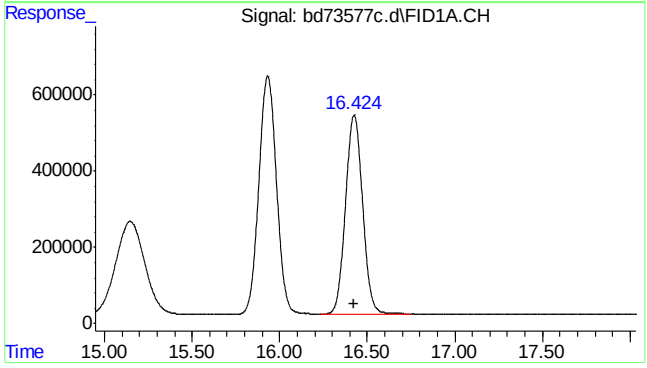
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 32187887
Conc: 52.19 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 28286887
Conc: 45.86 ppb m



#4 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 35925961
Conc: 52.80 ppb

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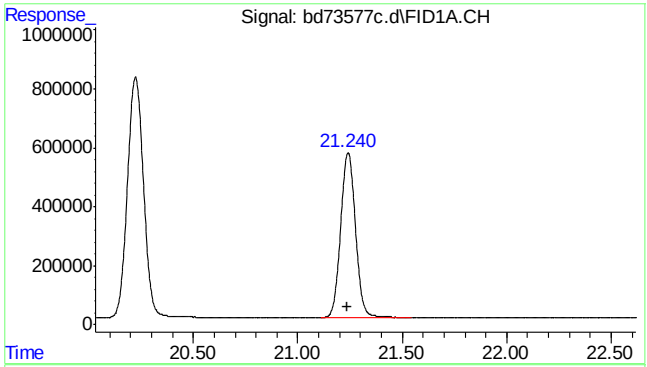
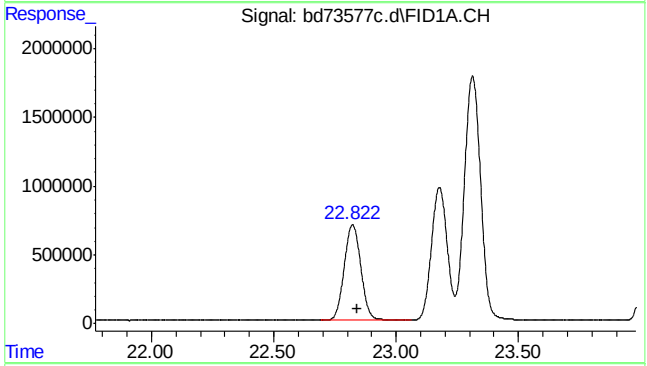


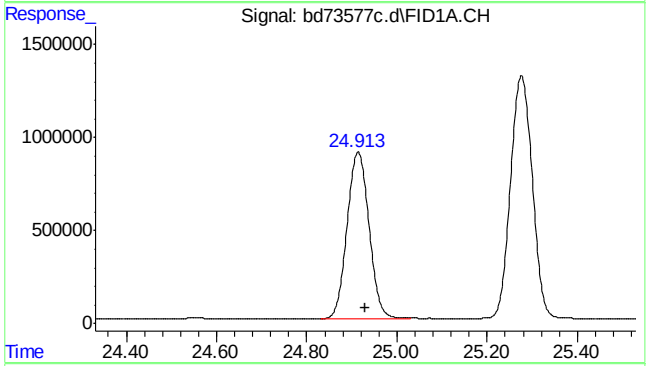
#6 2,3,4-trifluorotoluene

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 27861647
Conc: 53.48 ppb



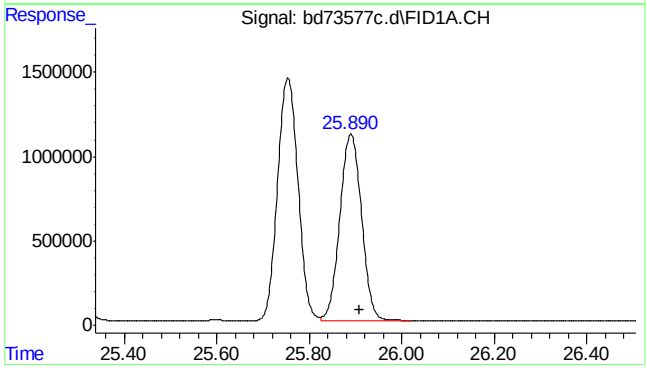
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 33101451
Conc: 41.37 ppb m



#10 decane

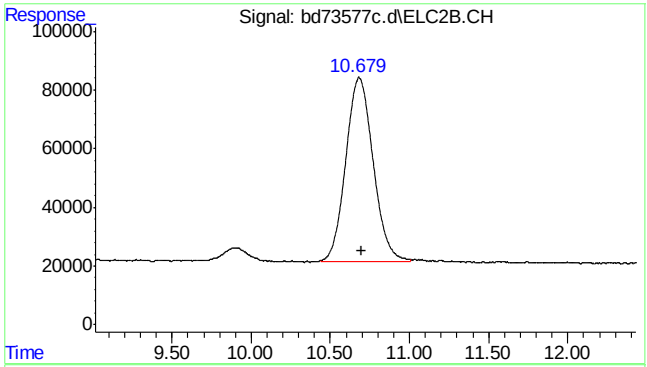
R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 30626414
Conc: 38.27 ppb



#11 butylcyclohexane

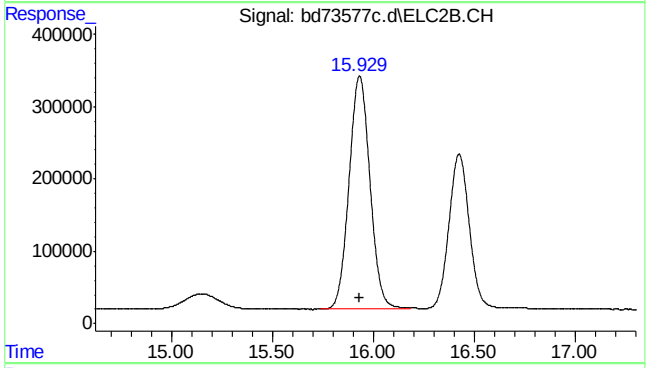
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 36345891
Conc: 45.42 ppb m

SGS ACCUTEST MC45897



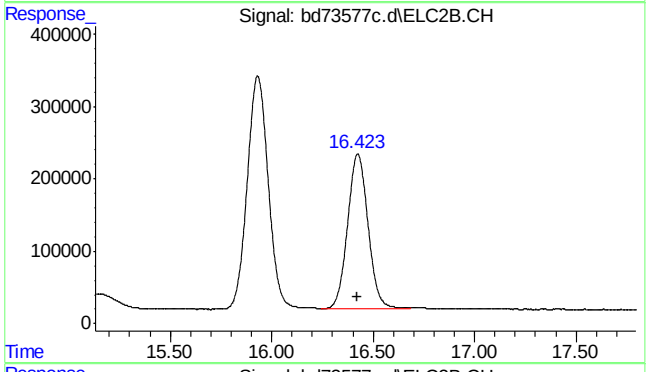
#14 mtbe #2

R.T.: 10.679 min
Delta R.T.: -0.017 min
Response: 7575142
Conc: 49.15 ppb m



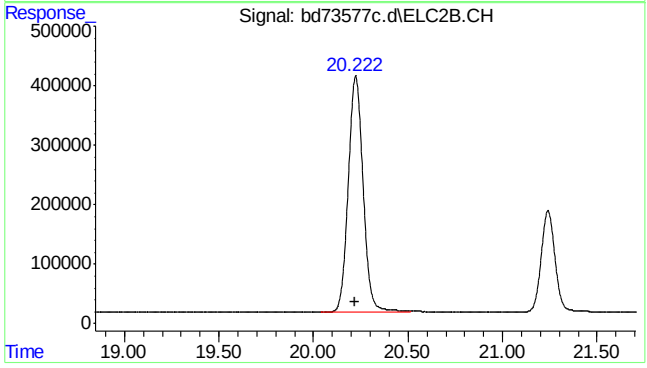
#15 benzene #2

R.T.: 15.930 min
Delta R.T.: -0.002 min
Response: 23203203
Conc: 47.98 ppb



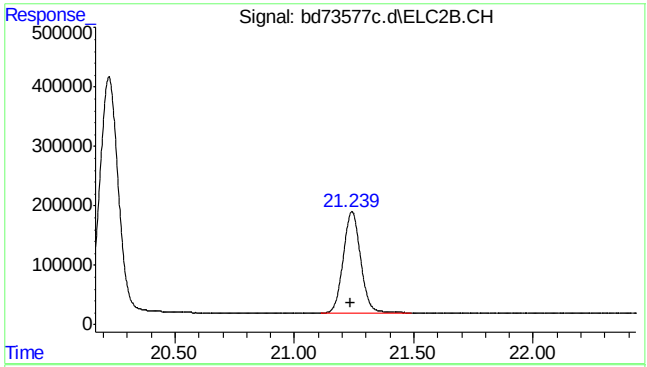
#16 fluorobenzene #2

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 14992413
Conc: 44.19 ppb



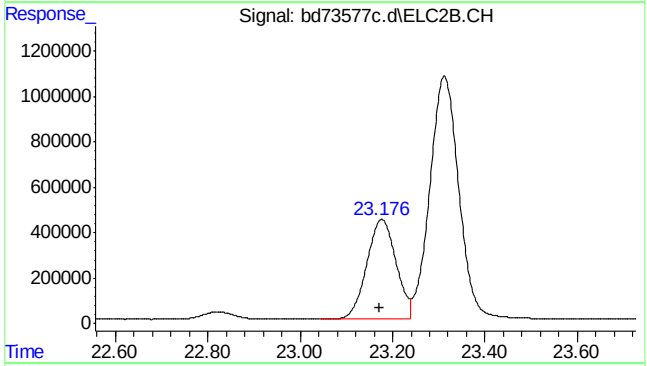
#17 toluene #2

R.T.: 20.223 min
Delta R.T.: 0.002 min
Response: 21832920
Conc: 48.23 ppb



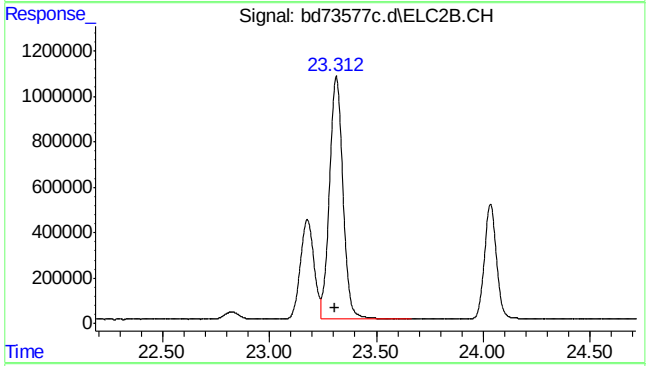
#18 2,3,4-trifluorotoluene #2

R.T.: 21.240 min
Delta R.T.: 0.003 min
Response: 8778078
Conc: 44.59 ppb



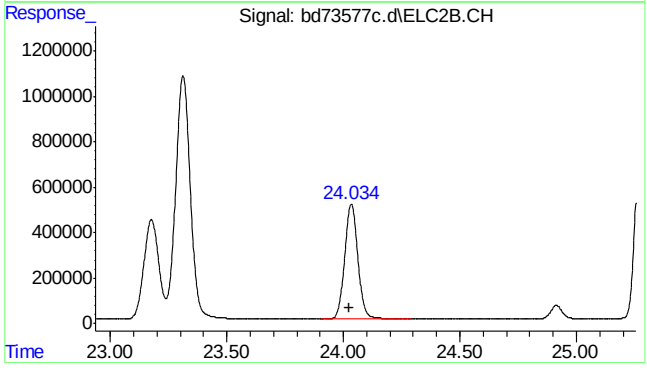
#19 ethylbenzene #2

R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 19404890
Conc: 46.76 ppb



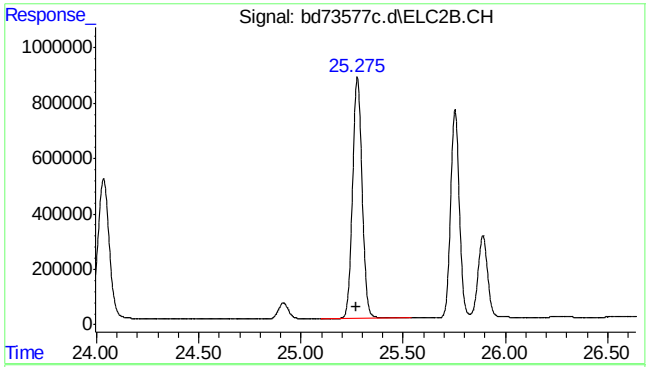
#20 m,p-xylene #2

R.T.: 23.312 min
Delta R.T.: 0.005 min
Response: 47148386
Conc: 94.59 ppb



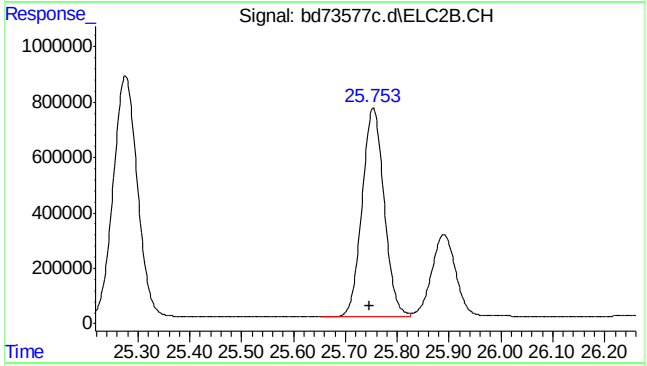
#21 o-xylene #2

R.T.: 24.034 min
Delta R.T.: 0.006 min
Response: 19900927
Conc: 45.77 ppb



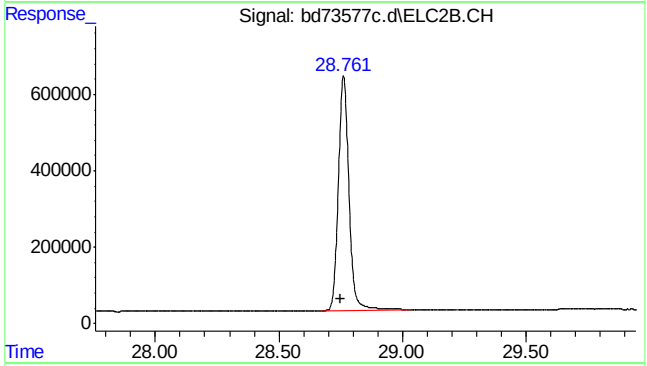
#22 1,3,5-trimethylbenzene #2

R.T.: 25.276 min
Delta R.T.: 0.008 min
Response: 28312792
Conc: 42.19 ppb



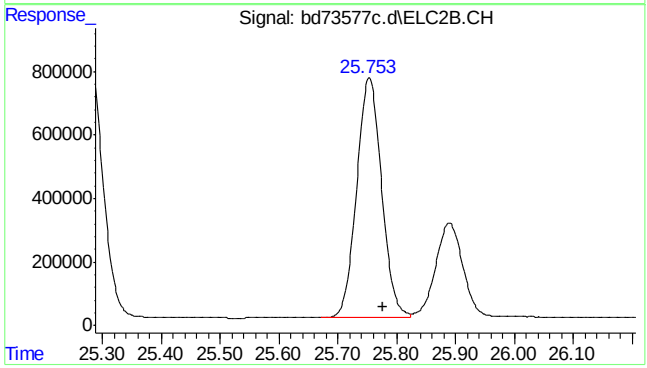
#23 1,2,4-trimethylbenzene #2

R.T.: 25.754 min
Delta R.T.: 0.008 min
Response: 22279890
Conc: 45.30 ppb



#24 naphthalene #2

R.T.: 28.761 min
Delta R.T.: 0.011 min
Response: 18366077
Conc: 50.92 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 22275359
Conc: 45.31 ppb m

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Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73552.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 14:26:21
Operator : danielf
Sample : mc45897-3ms,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:41:48 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.425	33777011	49.643 ppb	
Spiked Amount 50.000		Recovery	= 99.29%	
6) s 2,3,4-trifluorotoluene	21.242	26229852	50.345 ppb	
Spiked Amount 50.000		Recovery	= 100.69%	
16) s fluorobenzene #2	16.425	14603566	43.046 ppb	
Spiked Amount 50.000		Recovery	= 86.09%	
18) s 2,3,4-trifluorotoluen...	21.242	8389734	42.619 ppb	
Spiked Amount 50.000		Recovery	= 85.24%	
Target Compounds				
1) h rt5.5-7	7.470	27108592	43.954 ppb	m
2) h rt7/10	9.920	51178179	82.981 ppb	m
3) h rt10/13	15.200	127043919	205.991 ppb	
8) h rt20/25	22.840	392088383	489.974 ppb	m
14) mtbe #2	10.680f	7730724	50.164 ppb	m
15) benzene #2	15.931	22450994	46.424 ppb	
17) toluene #2	20.225	21074122	46.550 ppb	
19) ethylbenzene #2	23.178	20885214	50.324 ppb	
20) m,p-xylene #2	23.314	51875191	104.074 ppb	
21) o-xylene #2	24.036	19542616	44.948 ppb	
23) 1,2,4-trimethylbenzen...	25.756	21992024	44.711 ppb	
24) naphthalene #2	28.764	22964658	63.535 ppb	
25) h c9-c10 arom as 1,2,4-tmb	25.777	76831856	156.273 ppb	m

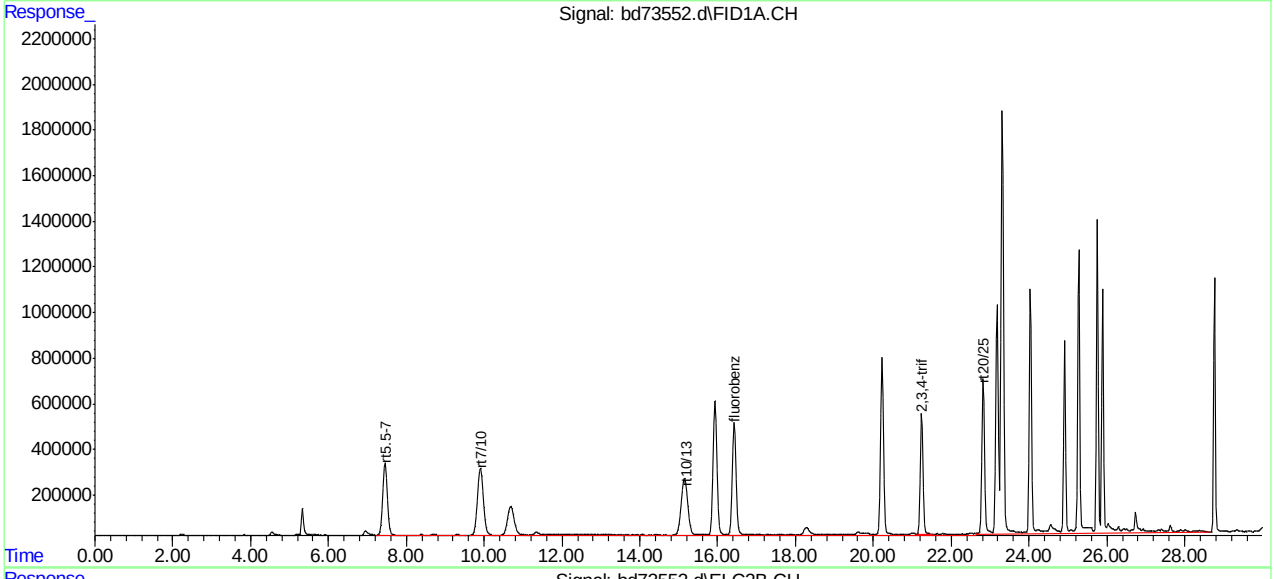
(f)=RT Delta > 1/2 Window (m)=manual int.

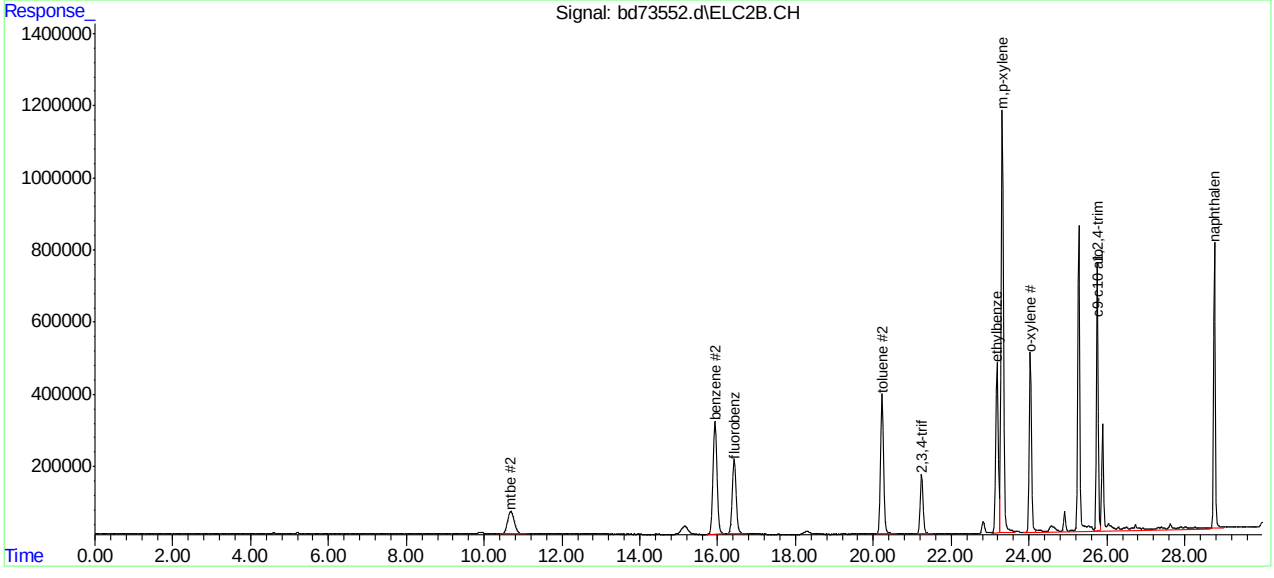
Quantitation Report (QT Reviewed)

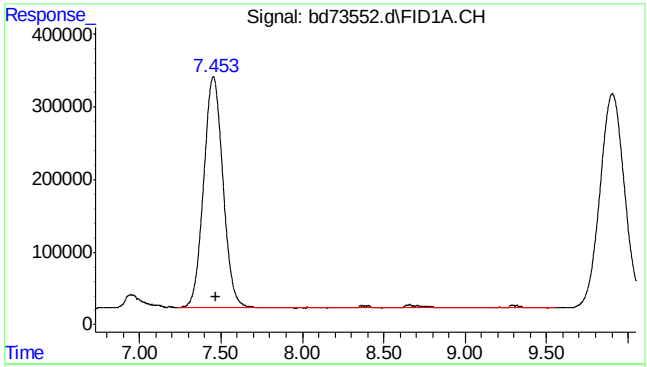
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73552.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 14:26:21
Operator : danielf
Sample : mc45897-3ms,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:41:48 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

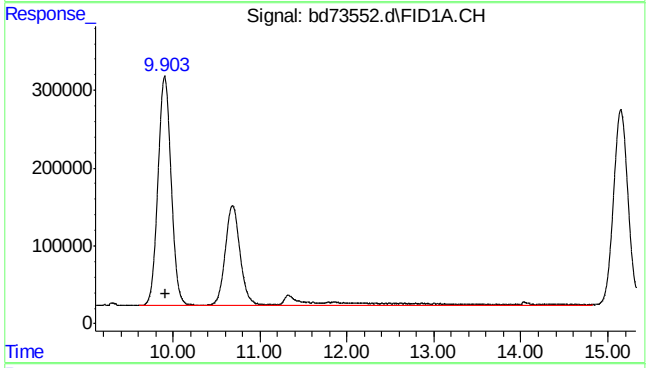






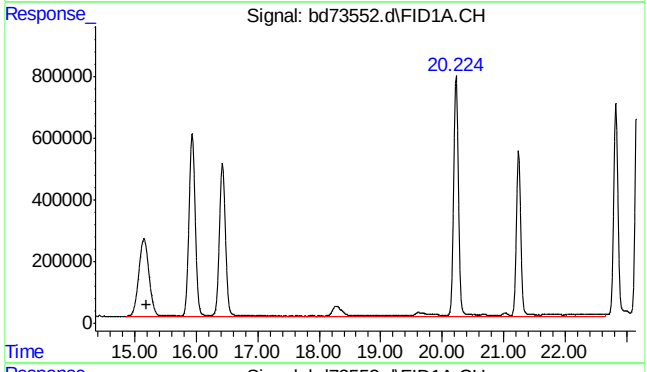
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 27108592
Conc: 43.95 ppb m



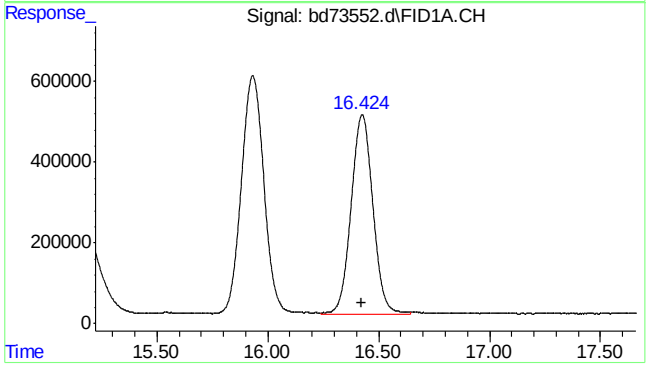
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 51178179
Conc: 82.98 ppb m



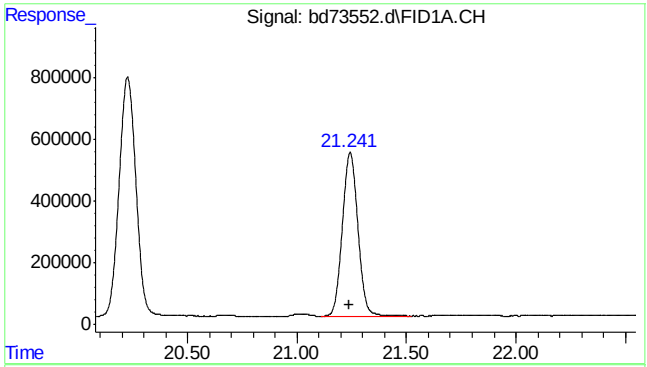
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 127043919
Conc: 205.99 ppb



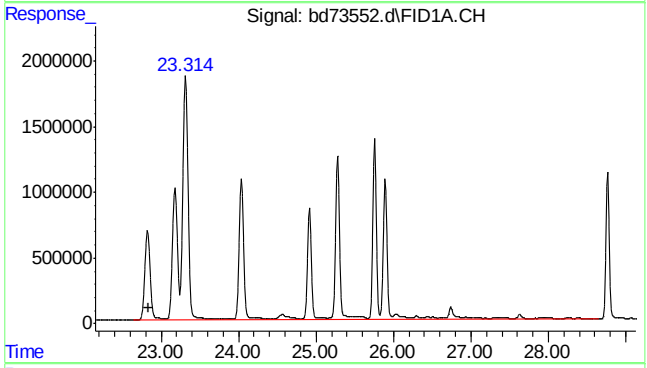
#4 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.001 min
Response: 33777011
Conc: 49.64 ppb



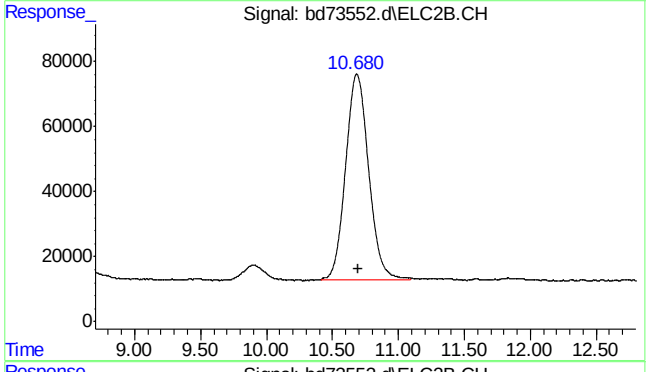
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 26229852
Conc: 50.34 ppb



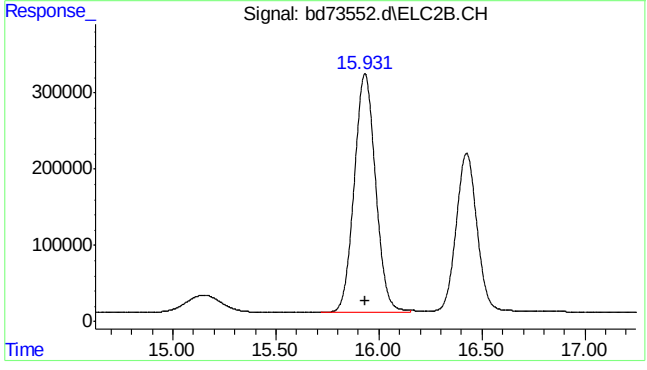
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 392088383
Conc: 489.97 ppb m



#14 mtbe #2

R.T.: 10.680 min
Delta R.T.: -0.016 min
Response: 7730724
Conc: 50.16 ppb m



#15 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 22450994
Conc: 46.42 ppb

7.4.1

7

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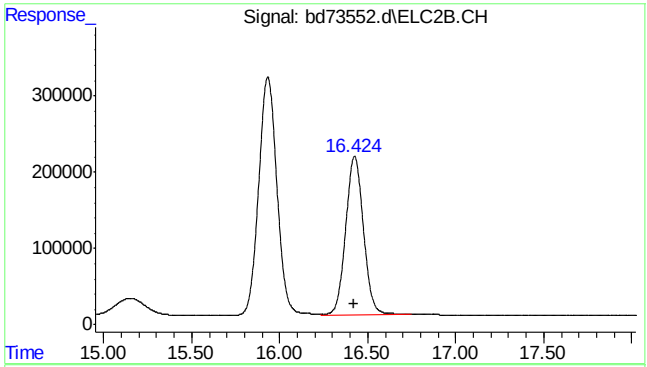
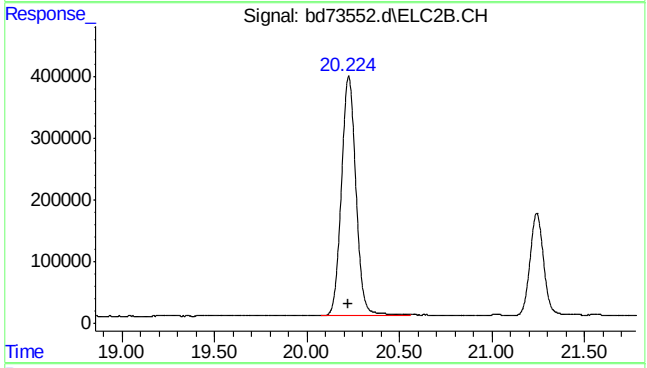


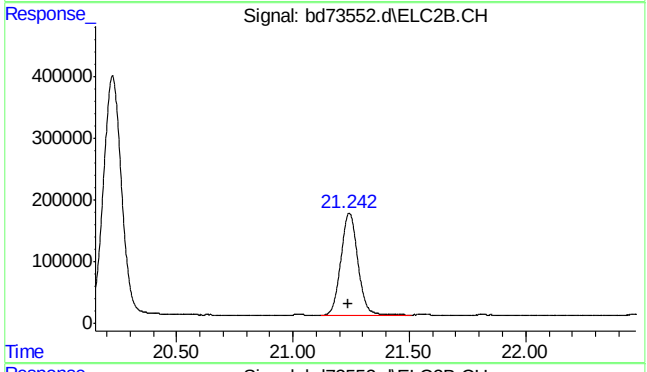
#16 fluorobenzene #2

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 14603566
Conc: 43.05 ppb



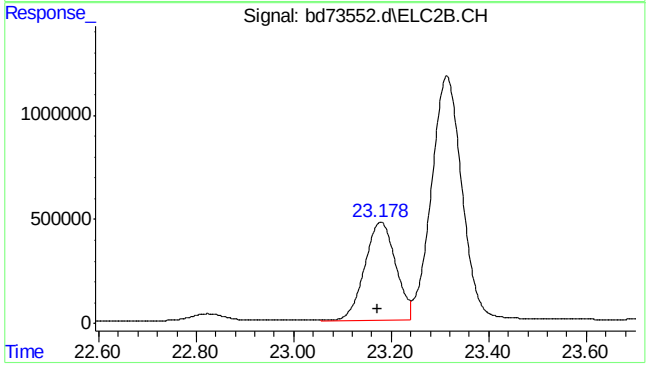
#17 toluene #2

R.T.: 20.225 min
Delta R.T.: 0.004 min
Response: 21074122
Conc: 46.55 ppb



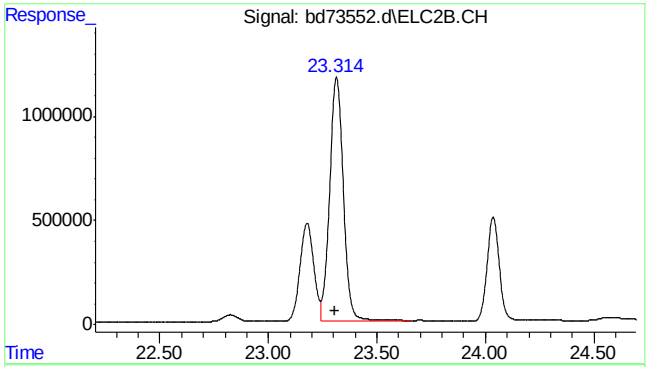
#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8389734
Conc: 42.62 ppb



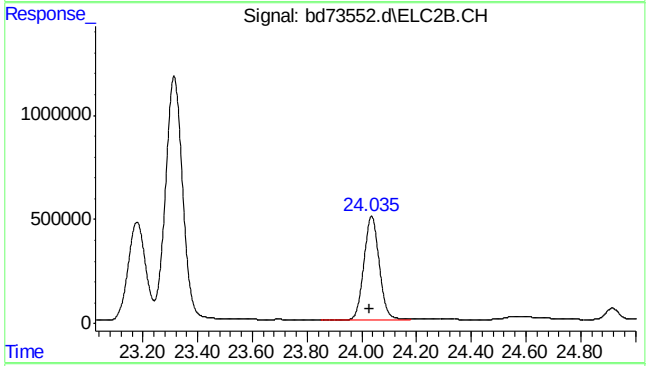
#19 ethylbenzene #2

R.T.: 23.178 min
Delta R.T.: 0.006 min
Response: 20885214
Conc: 50.32 ppb



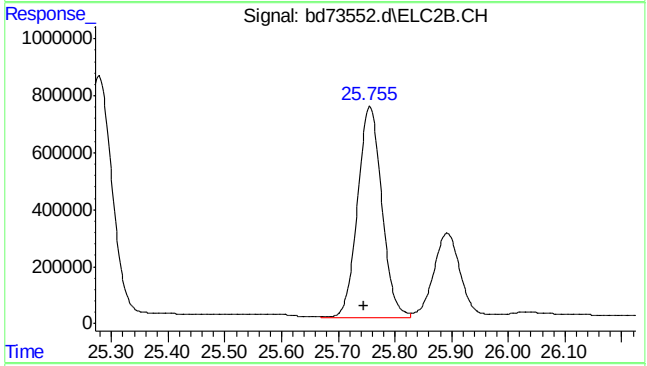
#20 m,p-xylene #2

R.T.: 23.314 min
Delta R.T.: 0.007 min
Response: 51875191
Conc: 104.07 ppb



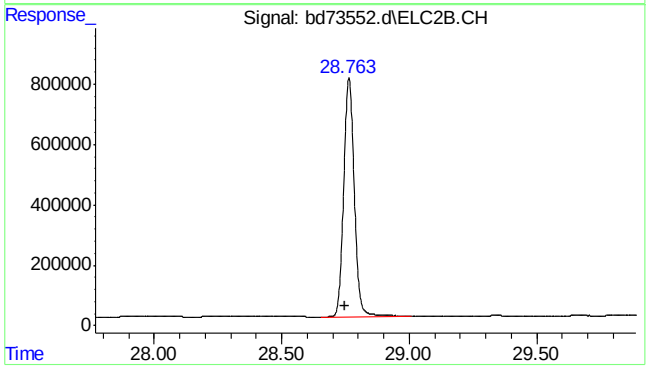
#21 o-xylene #2

R.T.: 24.036 min
Delta R.T.: 0.008 min
Response: 19542616
Conc: 44.95 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 25.756 min
Delta R.T.: 0.010 min
Response: 21992024
Conc: 44.71 ppb



#24 naphthalene #2

R.T.: 28.764 min
Delta R.T.: 0.014 min
Response: 22964658
Conc: 63.53 ppb

7.4.1

7

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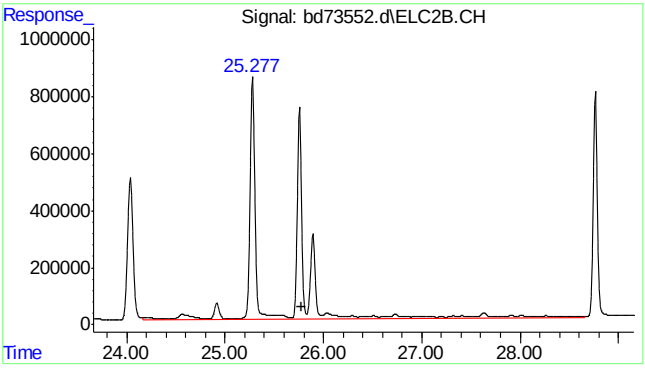

#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 76831856
Conc: 156.27 ppb m

7.4.1

7

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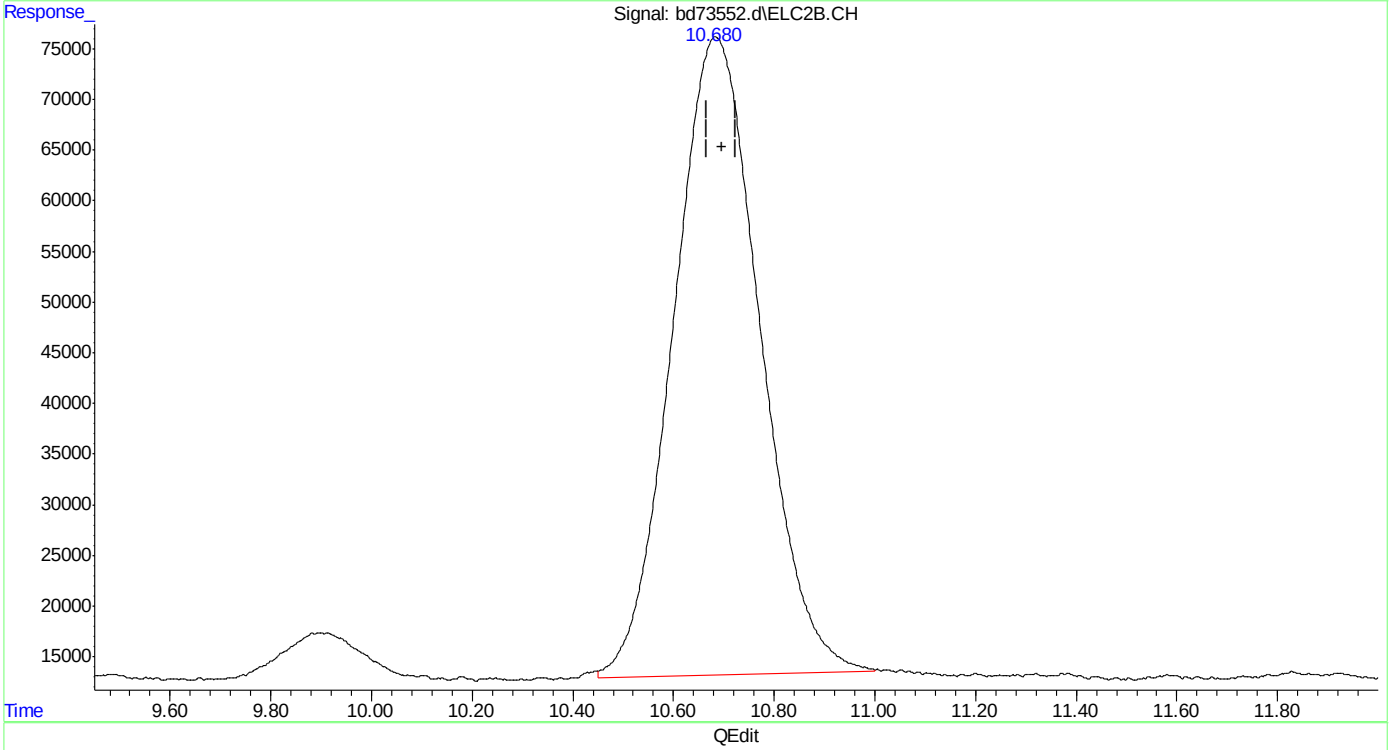
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73552.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 14:26:21
Operator : danielf
Sample : mc45897-3ms,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 15:01:02 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.682min 48.983 ppb
response 7548670

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:41:22 2016

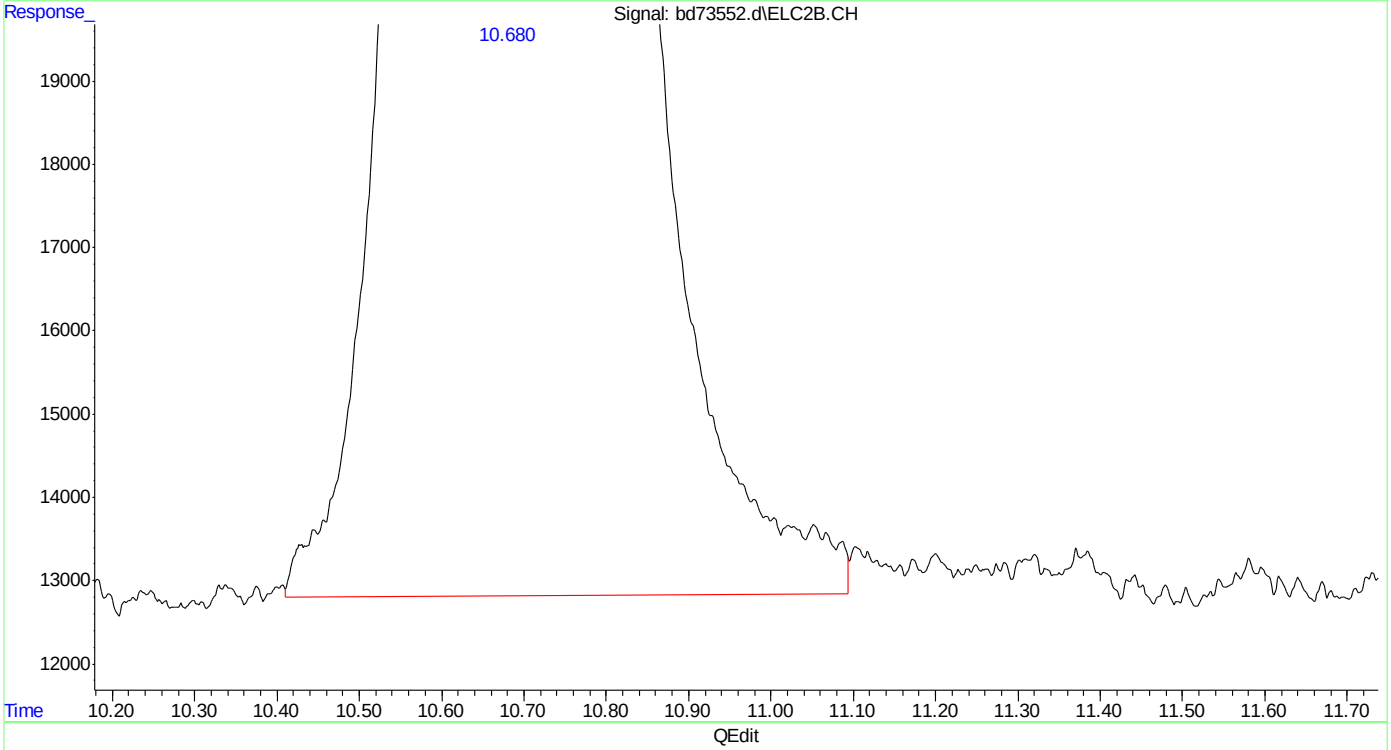
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73552.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 14:26:21
Operator  : danielf
Sample    : mc45897-3ms,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 15:01:02 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

10.680min 50.164 ppb m

response 7730724

(+) = Expected Retention Time

bd160513vph.M Mon May 16 11:41:29 2016

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73553.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 15:04:55
Operator : danielf
Sample : mc45897-3msd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:42:55 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.427	34272366	50.371 ppb	
Spiked Amount 50.000		Recovery	= 100.74%	
6) s 2,3,4-trifluorotoluene	21.243	26438608	50.745 ppb	
Spiked Amount 50.000		Recovery	= 101.49%	
16) s fluorobenzene #2	16.427	14289741	42.121 ppb	
Spiked Amount 50.000		Recovery	= 84.24%	
18) s 2,3,4-trifluorotoluen...	21.243	8292266	42.124 ppb	
Spiked Amount 50.000		Recovery	= 84.25%	
Target Compounds				
1) h rt5.5-7	7.470	27350864	44.347 ppb	m
2) h rt7/10	9.920	50249924	81.476 ppb	
3) h rt10/13	15.200	120911936	196.048 ppb	
8) h rt20/25	22.840	373111861	466.260 ppb	m
14) mtbe #2	10.683	7584752	49.217 ppb	m
15) benzene #2	15.935	22231105	45.970 ppb	
17) toluene #2	20.226	20972949	46.327 ppb	
19) ethylbenzene #2	23.179	20748010	49.994 ppb	
20) m,p-xylene #2	23.315	50943102	102.204 ppb	
21) o-xylene #2	24.036	19357276	44.521 ppb	
23) 1,2,4-trimethylbenzen...	25.756	21268386	43.239 ppb	m
24) naphthalene #2	28.764	21440908	59.356 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	71001372	144.414 ppb	m

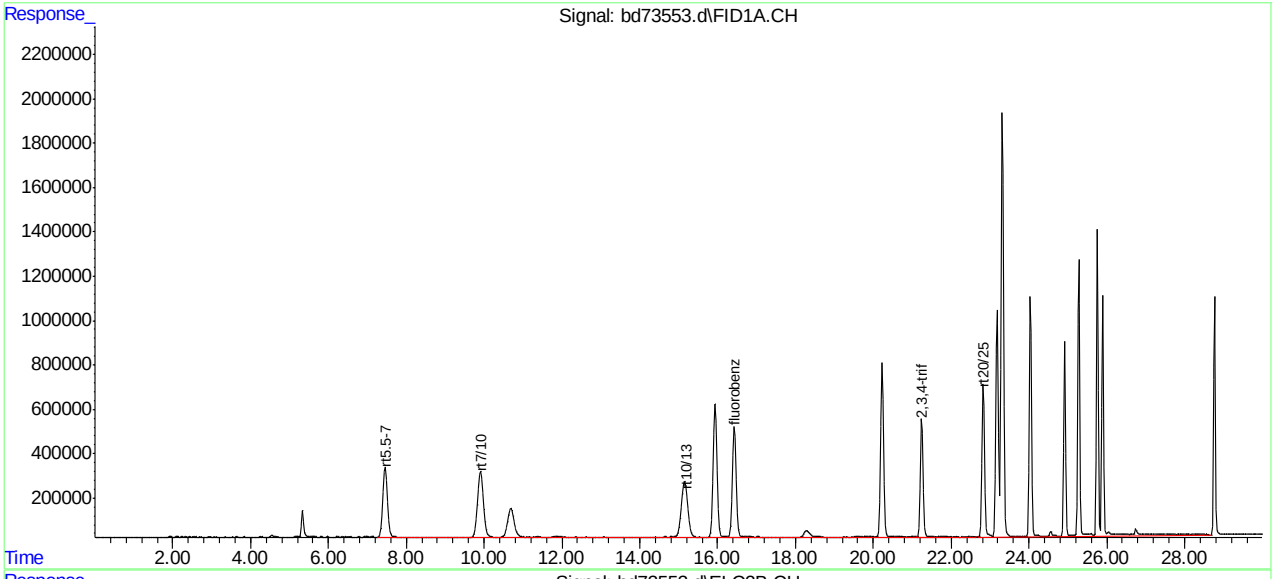
(f)=RT Delta > 1/2 Window (m)=manual int.

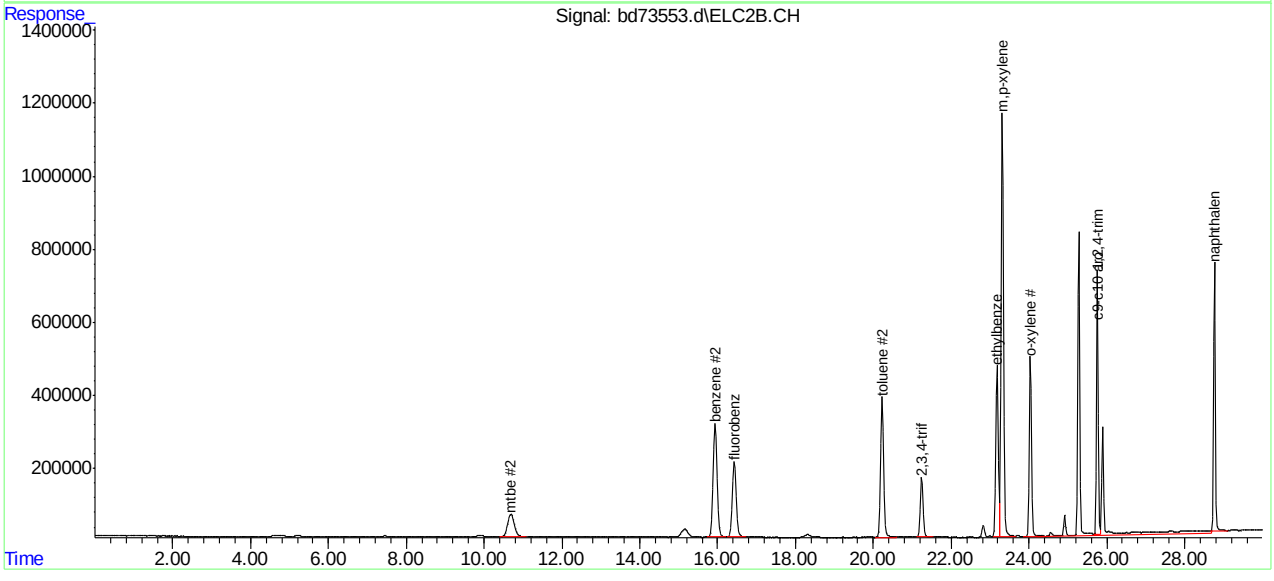
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73553.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 15:04:55
Operator : danielf
Sample : mc45897-3msd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

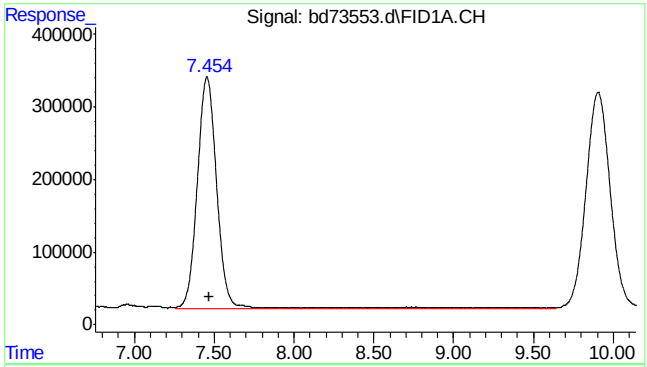
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 11:42:55 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



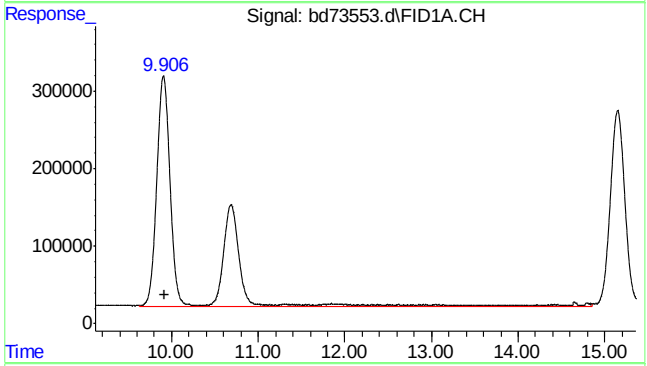


SGS ACCUTEST MC45897



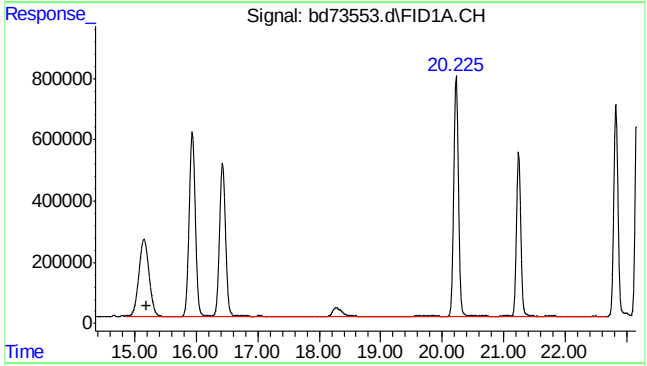
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 27350864
Conc: 44.35 ppb m



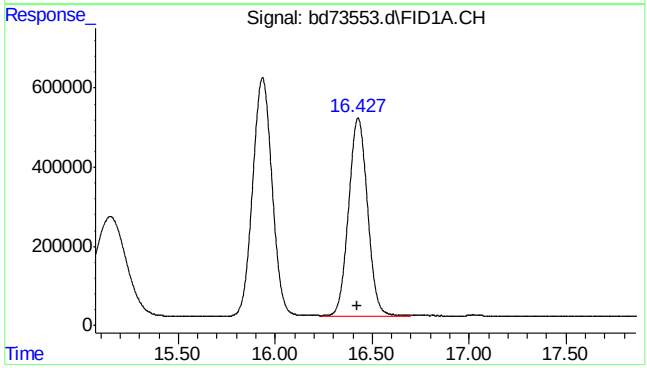
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 50249924
Conc: 81.48 ppb



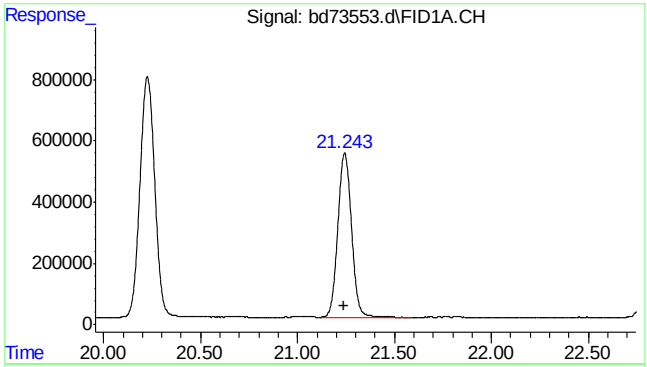
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 120911936
Conc: 196.05 ppb



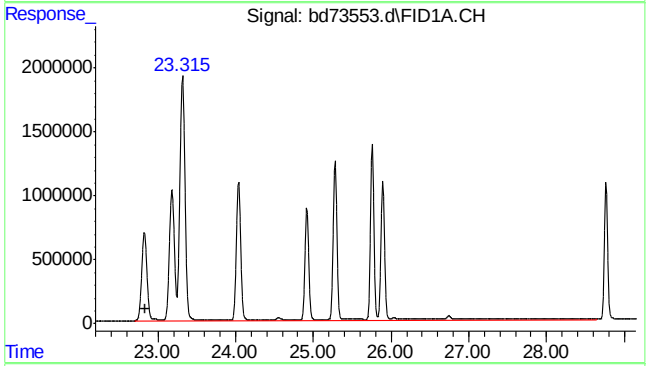
#4 fluorobenzene

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 34272366
Conc: 50.37 ppb



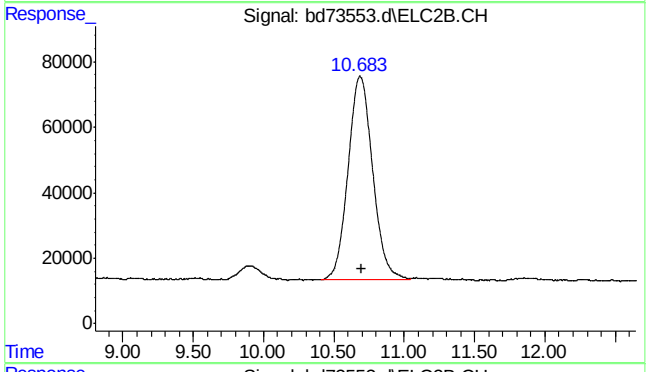
#6 2,3,4-trifluorotoluene

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 26438608
Conc: 50.75 ppb



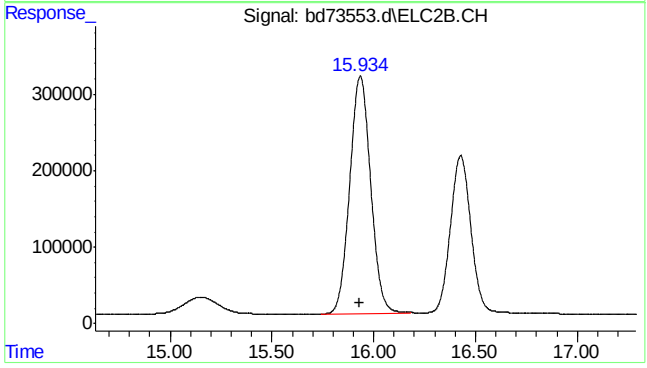
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 373111861
Conc: 466.26 ppb m



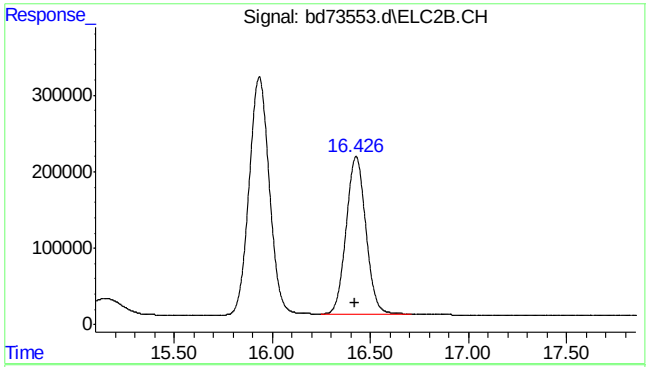
#14 mtbe #2

R.T.: 10.683 min
Delta R.T.: -0.013 min
Response: 7584752
Conc: 49.22 ppb m



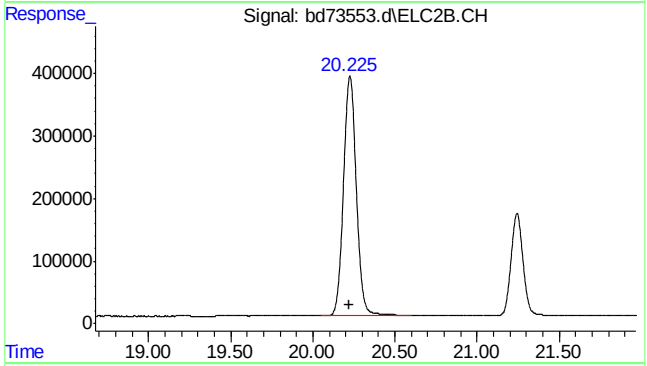
#15 benzene #2

R.T.: 15.935 min
Delta R.T.: 0.003 min
Response: 22231105
Conc: 45.97 ppb



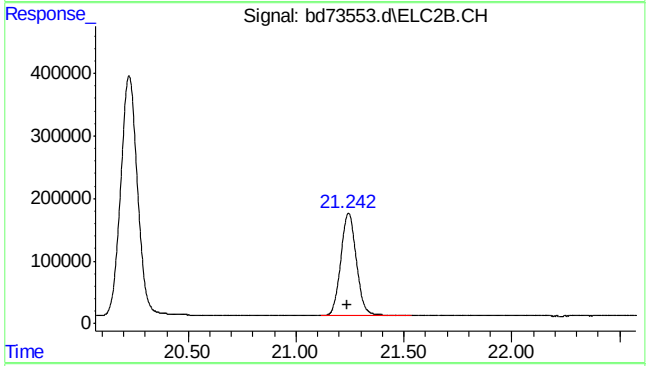
#16 fluorobenzene #2

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 14289741
Conc: 42.12 ppb



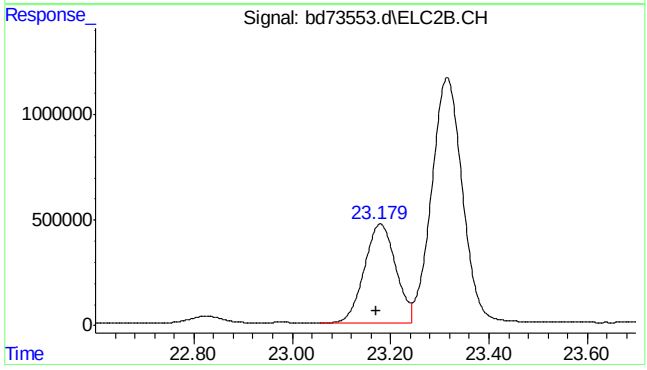
#17 toluene #2

R.T.: 20.226 min
Delta R.T.: 0.005 min
Response: 20972949
Conc: 46.33 ppb



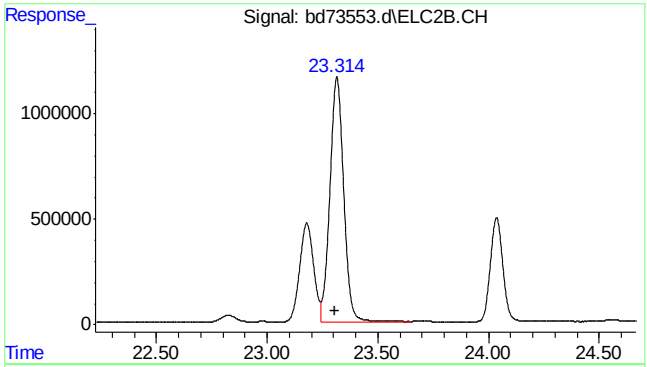
#18 2,3,4-trifluorotoluene #2

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 8292266
Conc: 42.12 ppb



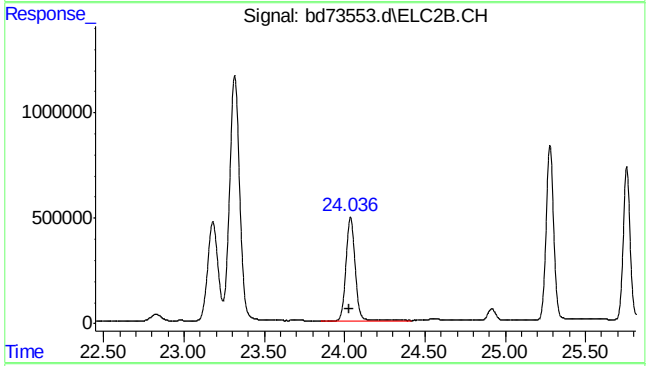
#19 ethylbenzene #2

R.T.: 23.179 min
Delta R.T.: 0.007 min
Response: 20748010
Conc: 49.99 ppb



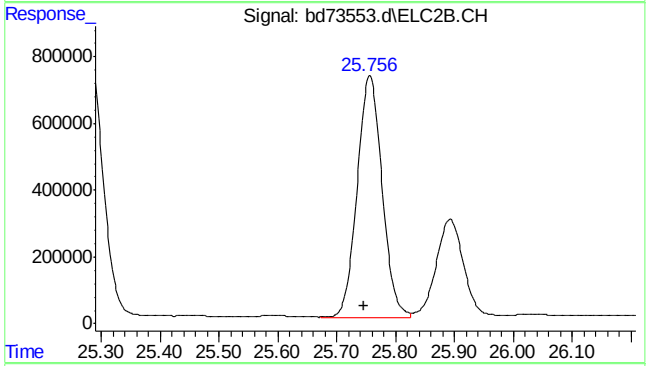
#20 m,p-xylene #2

R.T.: 23.315 min
Delta R.T.: 0.008 min
Response: 50943102
Conc: 102.20 ppb



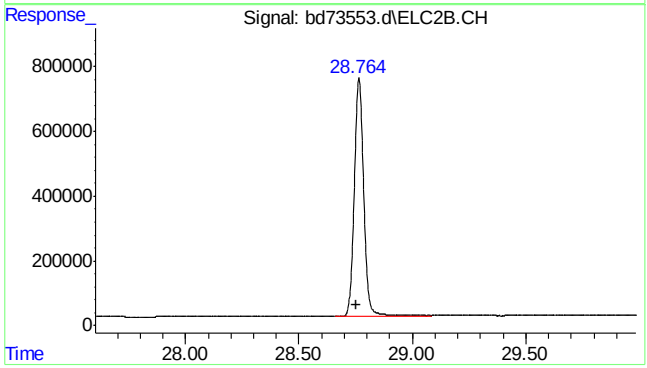
#21 o-xylene #2

R.T.: 24.036 min
Delta R.T.: 0.008 min
Response: 19357276
Conc: 44.52 ppb



#23 1,2,4-trimethylbenzene #2

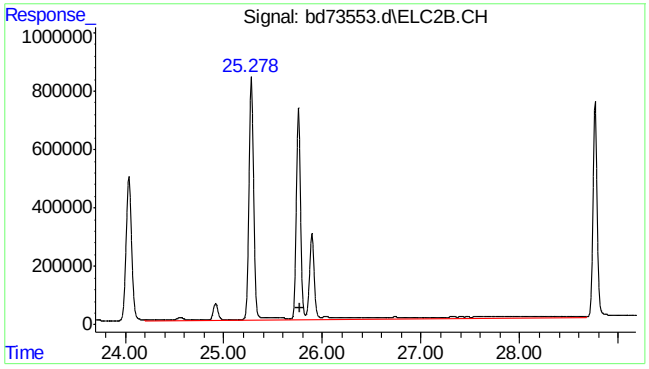
R.T.: 25.756 min
Delta R.T.: 0.010 min
Response: 21268386
Conc: 43.24 ppb m



#24 naphthalene #2

R.T.: 28.764 min
Delta R.T.: 0.014 min
Response: 21440908
Conc: 59.36 ppb m

SGS ACCUTEST MC45897



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 71001372
Conc: 144.41 ppb m

7.4.2

7

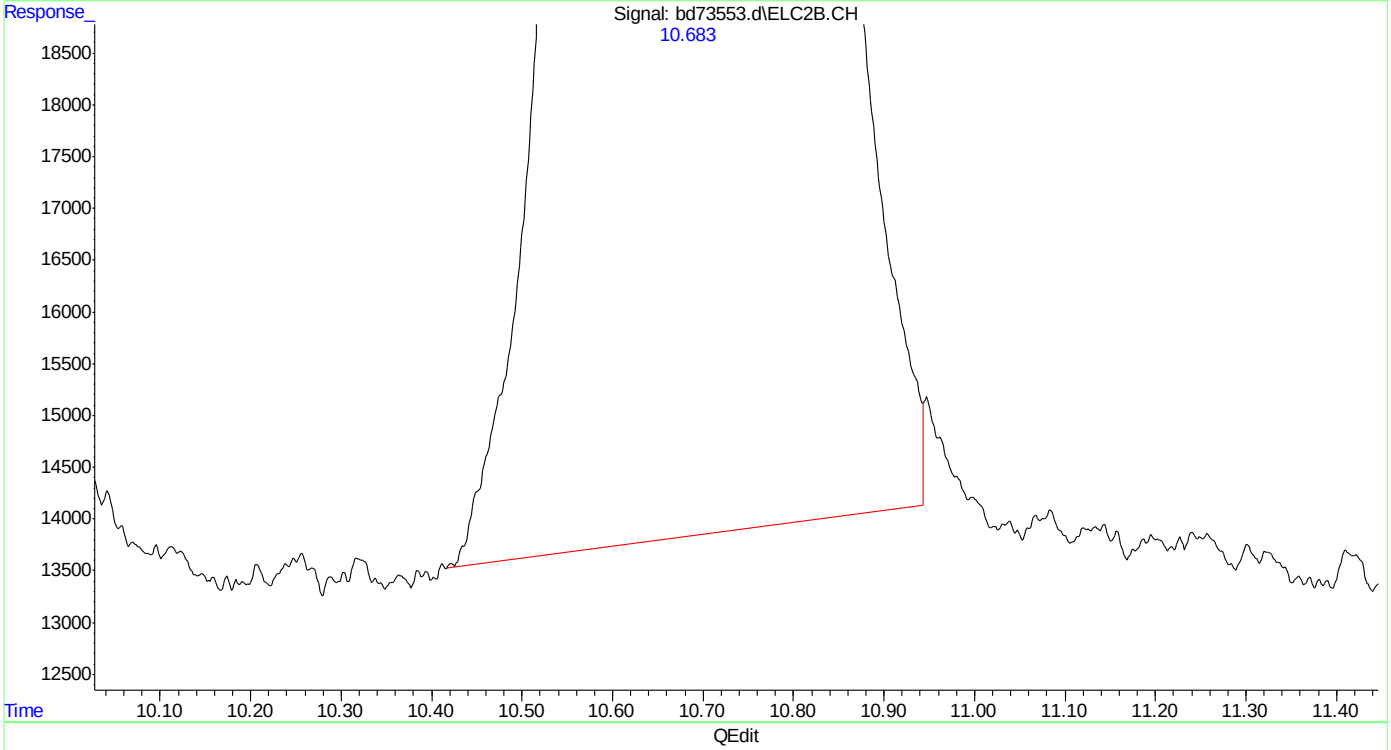
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73553.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 15:04:55
Operator : danielf
Sample : mc45897-3msd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 16:34:33 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.684min 47.923 ppb
response 7385288

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:42:16 2016

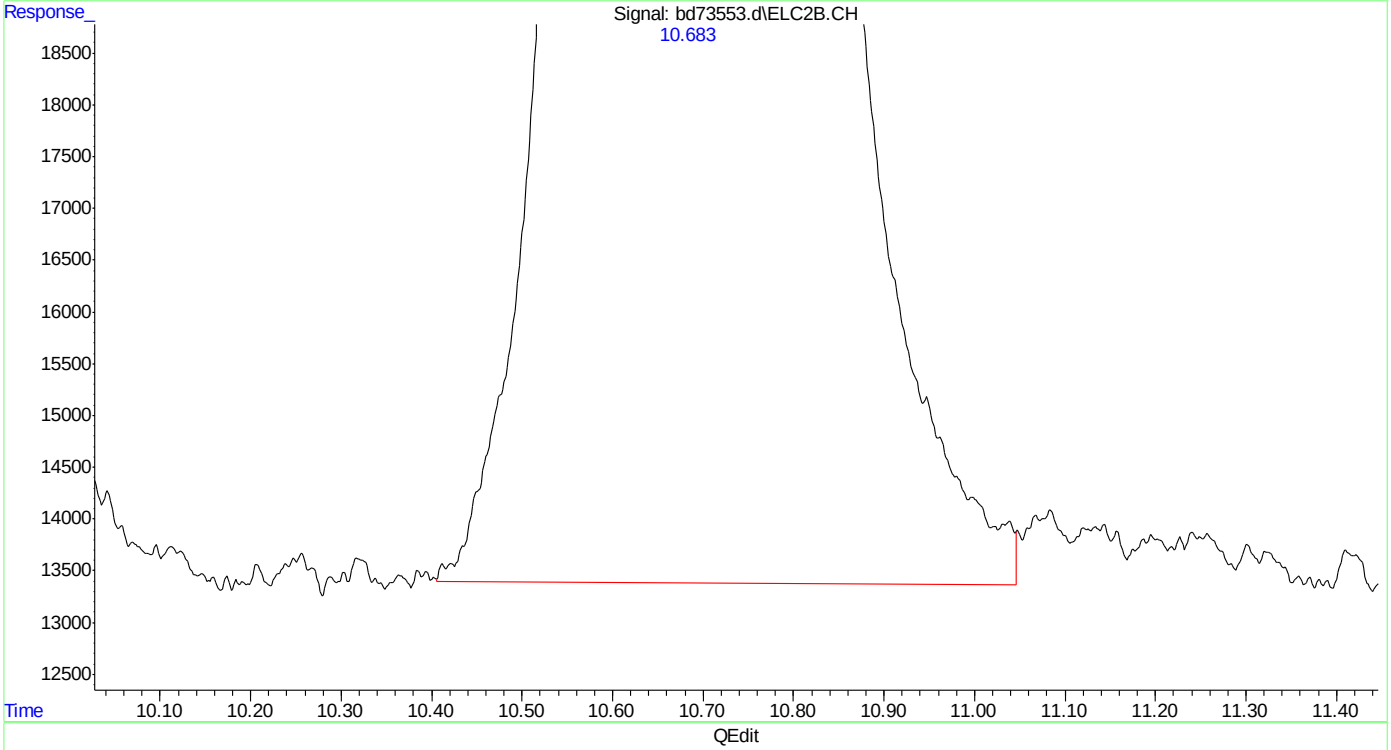
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73553.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 15:04:55
Operator : danielf
Sample : mc45897-3msd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 16:34:33 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.683min 49.217 ppb m
response 7584752

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:42:21 2016

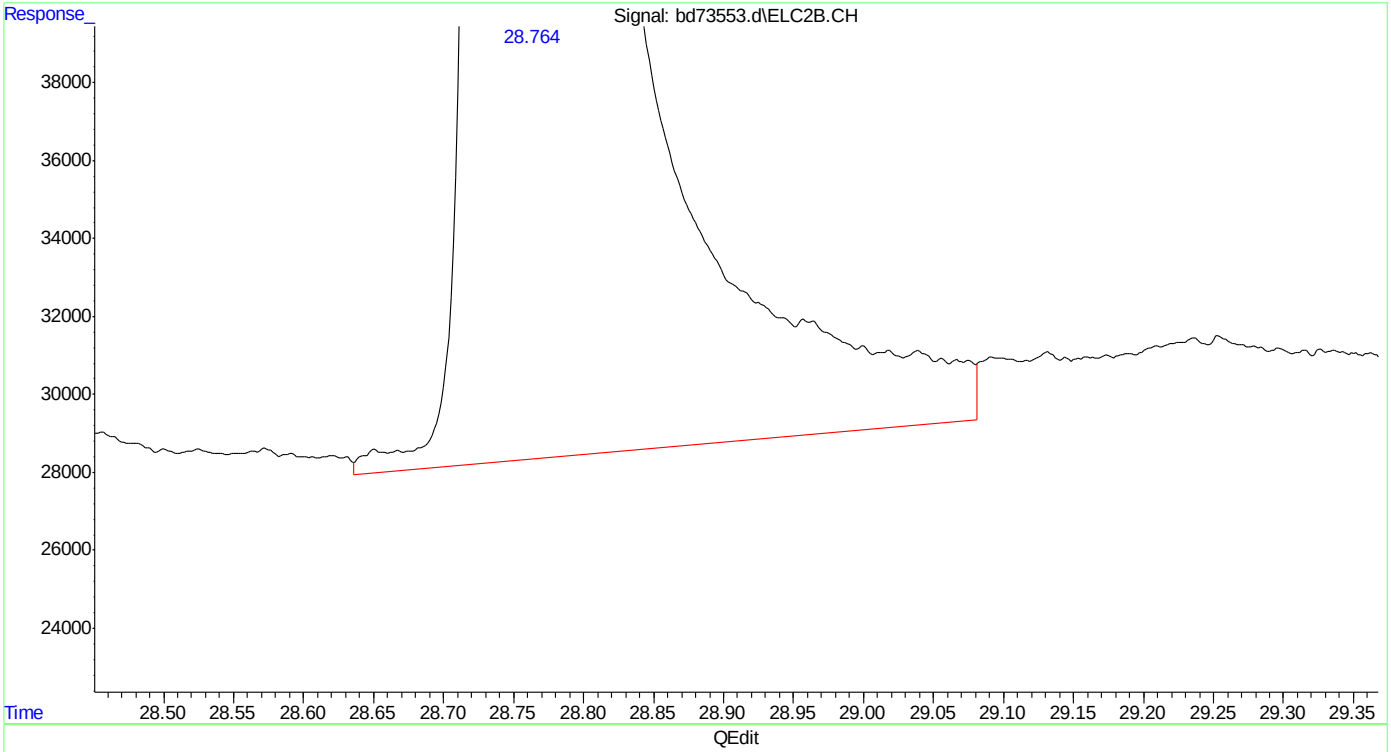
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73553.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 15:04:55
Operator  : danielf
Sample    : mc45897-3msd,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 16:34:33 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.764min 59.755 ppb

response 21586219

(+) = Expected Retention Time

bd160513vph.M Mon May 16 11:42:35 2016

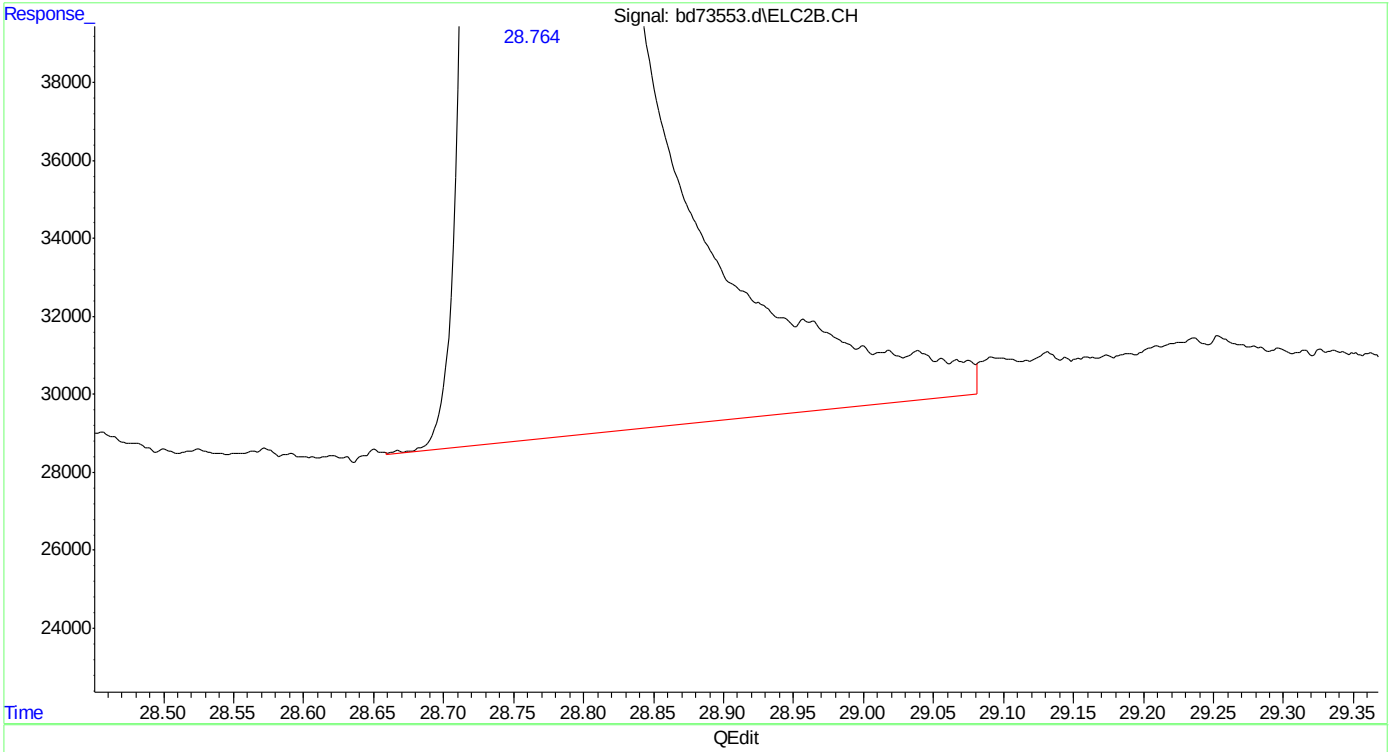
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73553.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 15:04:55
Operator  : danielf
Sample    : mc45897-3msd,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 16:34:33 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.764min 59.356 ppb m

response 21440908

(+) = Expected Retention Time

bd160513vph.M Mon May 16 11:42:39 2016

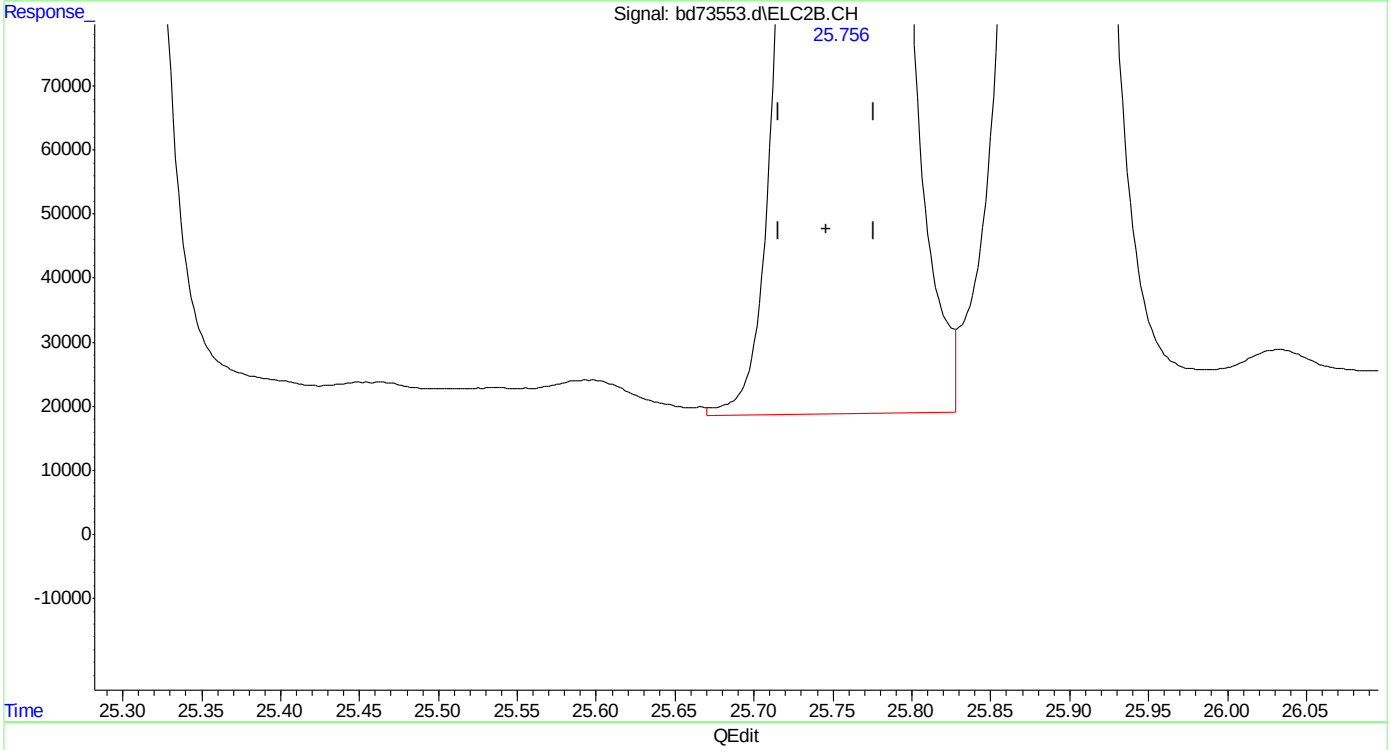
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73553.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 15:04:55
Operator : danielf
Sample : mc45897-3msd,w,vmavph,00
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 16:34:33 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.756min 43.400 ppb
response 21347416

(+) = Expected Retention Time
bd160513vph.M Mon May 16 11:42:44 2016

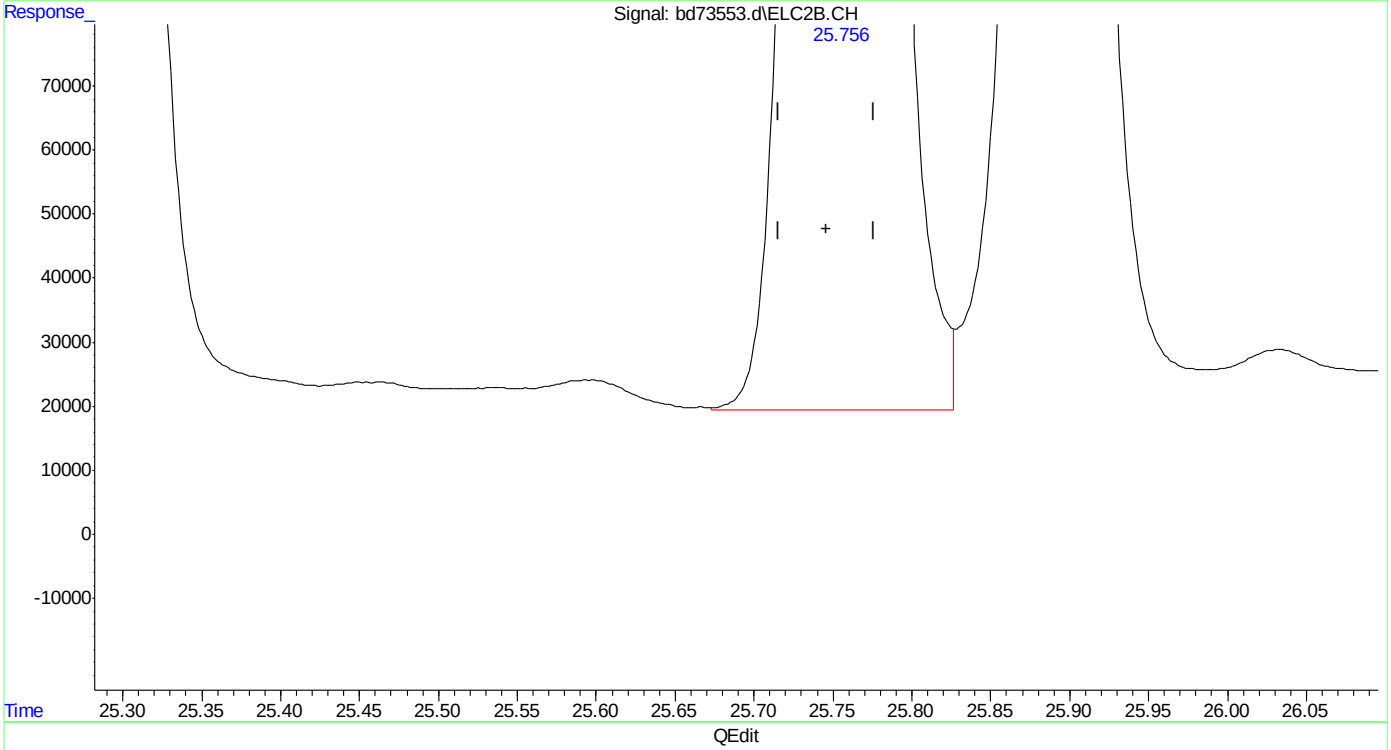
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73553.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 13-May-16, 15:04:55
Operator  : danielf
Sample    : mc45897-3msd,w,vmavph,00
Misc      : gc26235,gbd3635,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 16:34:33 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(23) 1,2,4-trimethylbenzene #2

25.756min 43.239 ppb m

response 21268386

(+) = Expected Retention Time

bd160513vph.M Mon May 16 11:42:49 2016

SGS ACCUTEST MC45897

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72680.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 07:38:29
Operator : tonyf
Sample : ic3572-1000 (Sig #1); ic3752-1000 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:23:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:21:12 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.425	657317120	961.988	ppb	
Spiked Amount 50.000		Recovery	= 1923.98%		
9) s 2,3,4-trifluorotoluene	21.238	506533597	968.857	ppb	
Spiked Amount 50.000		Recovery	= 1937.71%		
25) s fluorobenzene #2	16.425	307860163	897.087	ppb	
Spiked Amount 50.000		Recovery	= 1794.17%		
27) s 2,3,4-trifluorotoluen...	21.238	193235935	979.359	ppb	
Spiked Amount 50.000		Recovery	= 1958.72%		
Target Compounds					
1) h rt5.5-7	7.470	571775990	991.759	ppb	m
2) h rt7/10	9.920	664691568	987.821	ppb	m
3) mtbe	10.678	267375479	891.162	ppb	
4) h rt10/13	15.200	326932608	498.608	ppb	m
5) benzene	15.932	881455634	1134.894	ppb	
8) toluene	20.221	861485080	1108.961	ppb	
11) h rt20/25	22.840	696455027	838.680	ppb	m
13) ethylbenzene	23.174	853280690	1074.198	ppb	
14) m,p-xylene	23.311	1439377364	1738.716	ppb	
15) o-xylene	24.030	813797703	973.949	ppb	
16) h decane	24.930	406144732	436.324	ppb	
17) t 1,3,5-trimethylbenzene	25.272	856076033	922.191	ppb	
18) 1,2,4-trimethylbenzene	25.749	793214434	897.165	ppb	
19) h butylcyclohexane	25.908	623852508	658.454	ppb	
20) naphthalene	28.750	426083724	1009.117	ppb	m
23) mtbe #2	10.681f	136782818	875.276	ppb	
24) benzene #2	15.933	486139863	1005.904	ppb	
26) toluene #2	20.222	462559507	1024.522	ppb	
28) ethylbenzene #2	23.176	445869280	1084.433	ppb	
29) m,p-xylene #2	23.314	1026259910	2066.543	ppb	
30) o-xylene #2	24.031	455064843	1052.780	ppb	
31) t 1,3,5-trimethylbenzen...	25.273	672061053	1001.725	ppb	
32) 1,2,4-trimethylbenzen...	25.750	503182098	1025.934	ppb	
33) naphthalene #2	28.751	338646305	1054.657	ppb	
34) h c9-c10 arom as 1,2,4-tmb	25.777	503156214	1026.406	ppb	m

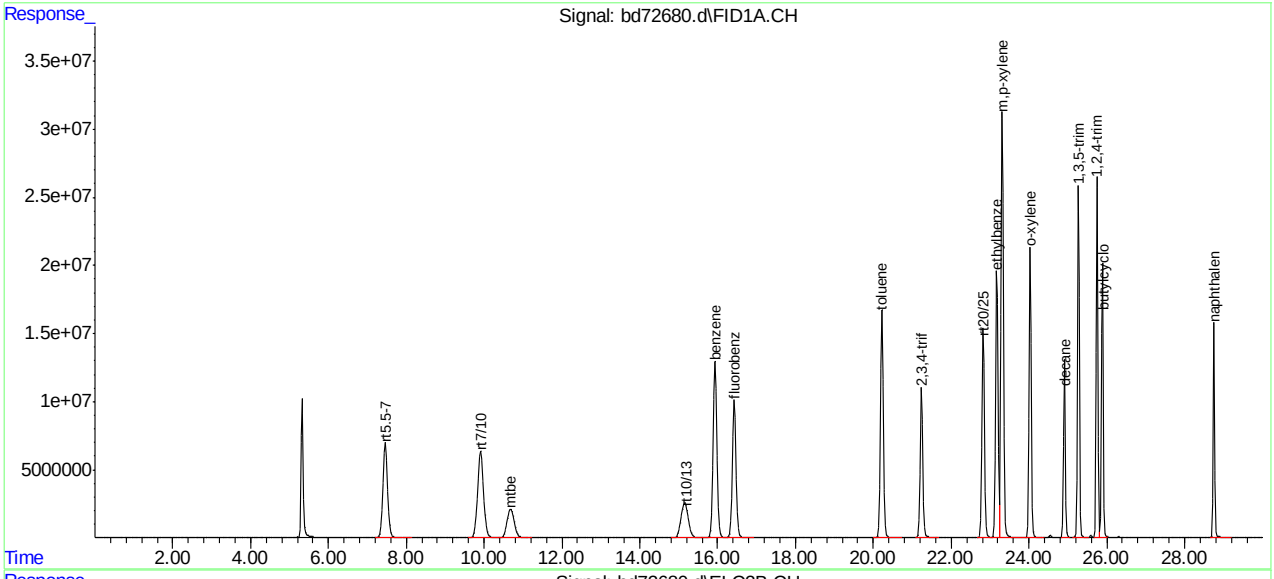
(f)=RT Delta > 1/2 Window (m)=manual int.

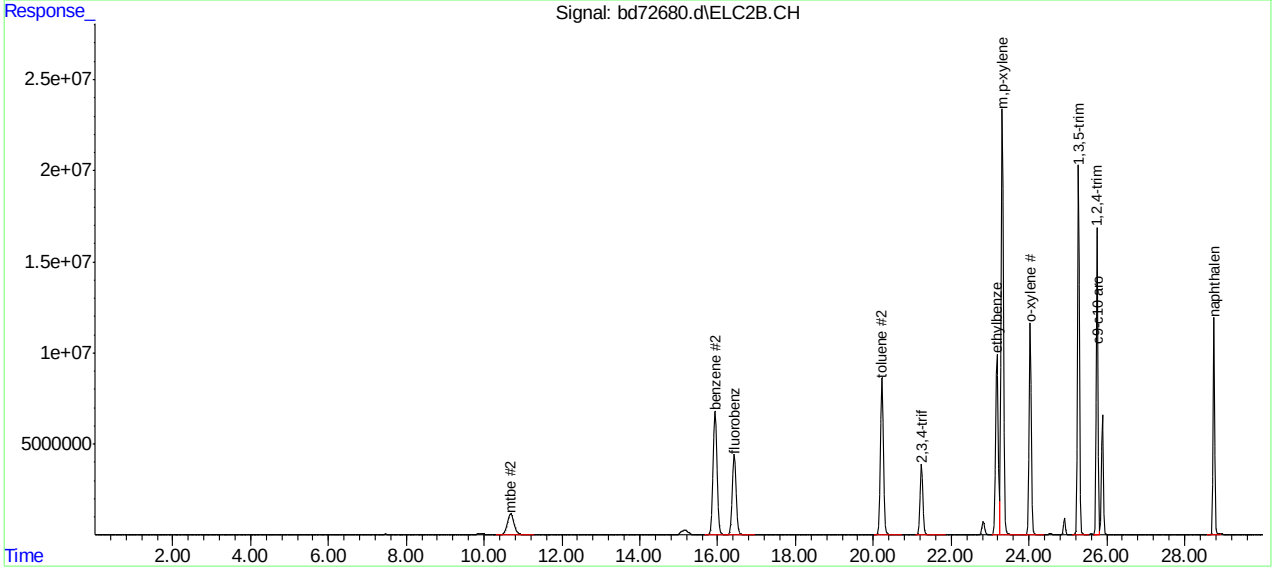
Quantitation Report (QT Reviewed)

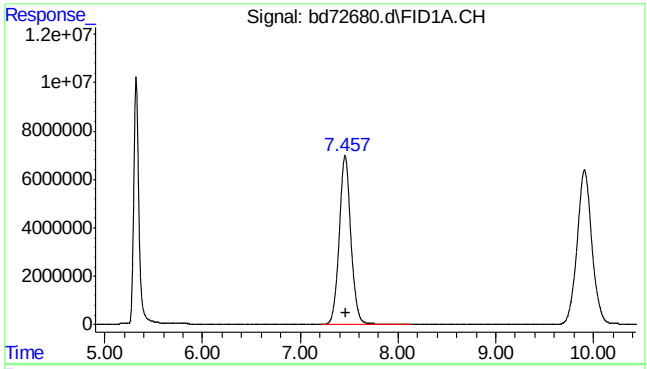
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72680.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 07:38:29
Operator : tonyf
Sample : ic3572-1000 (Sig #1); ic3752-1000 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:23:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:21:12 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

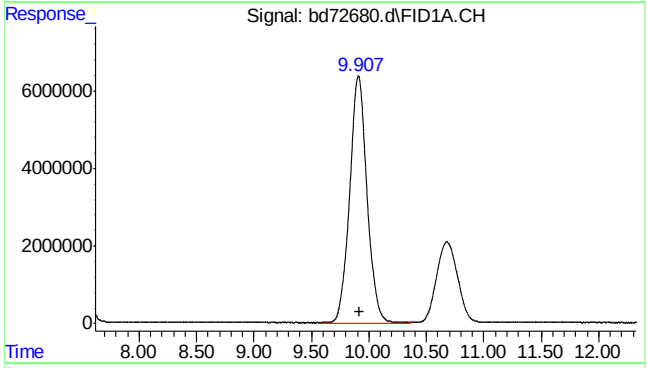






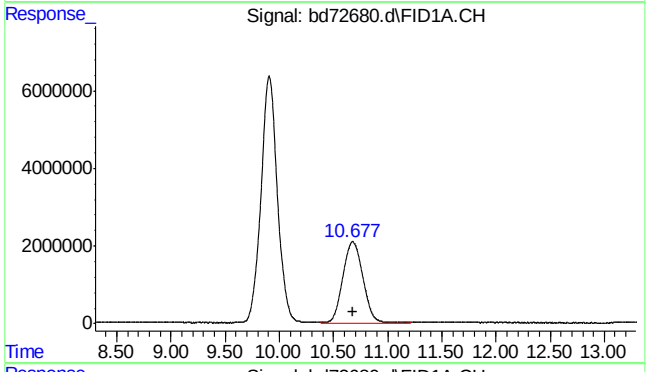
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 571775990
Conc: 991.76 ppb m



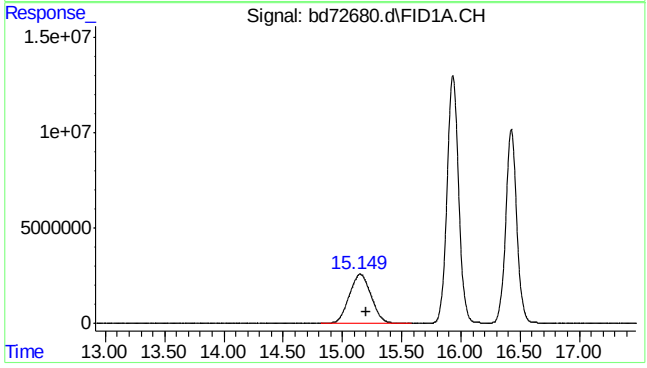
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 664691568
Conc: 987.82 ppb m



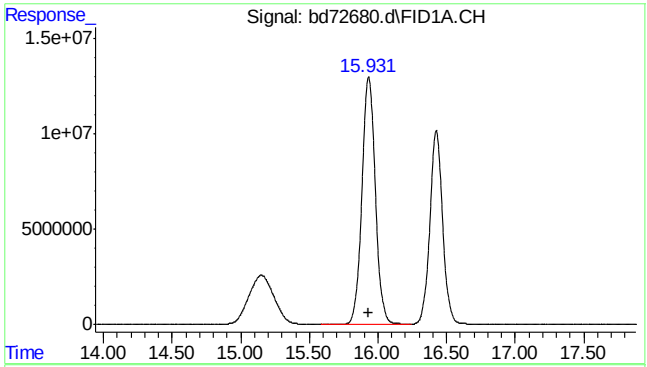
#3 mtbe

R.T.: 10.678 min
Delta R.T.: -0.005 min
Response: 267375479
Conc: 891.16 ppb



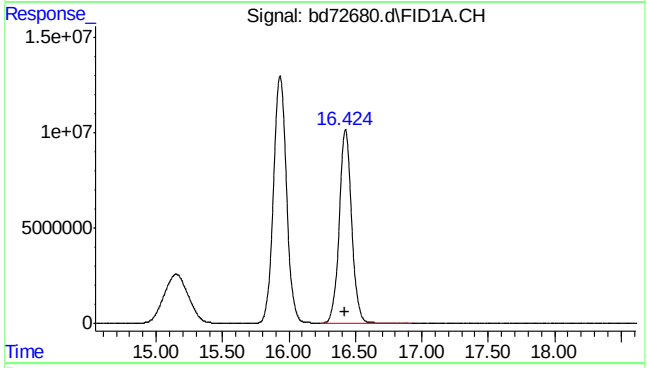
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 326932608
Conc: 498.61 ppb m



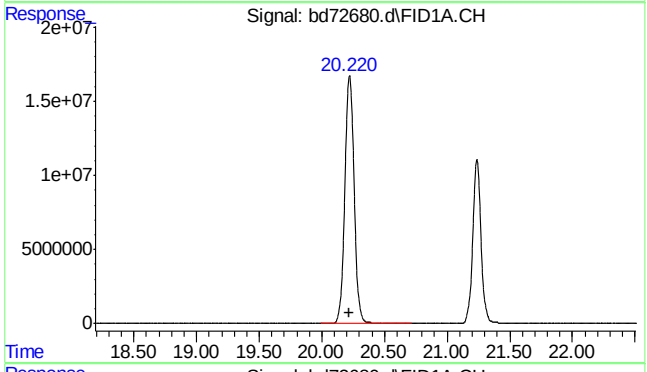
#5 benzene

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 881455634
Conc: 1134.89 ppb



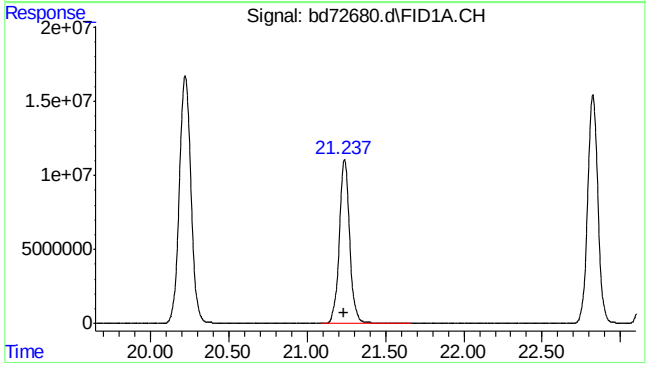
#6 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 657317120
Conc: 961.99 ppb



#8 toluene

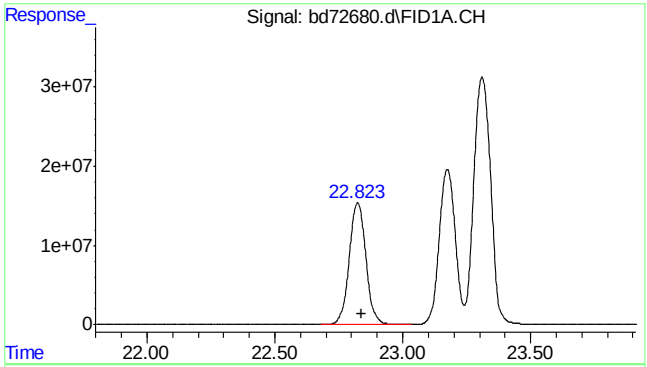
R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 861485080
Conc: 1108.96 ppb



#9 2,3,4-trifluorotoluene

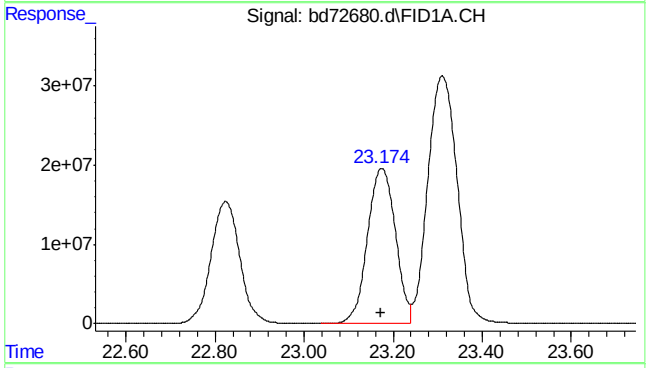
R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 506533597
Conc: 968.86 ppb

SGS ACCUTEST MC45897



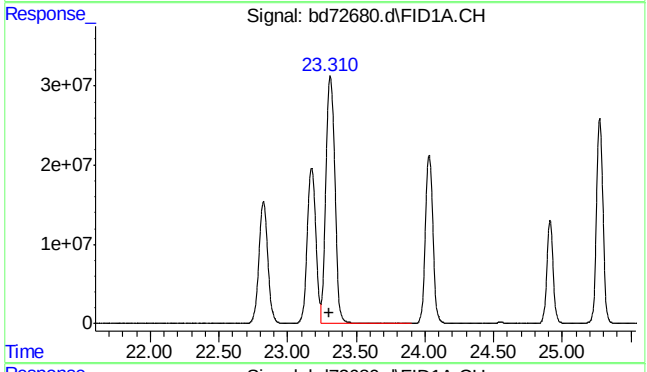
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 696455027
Conc: 838.68 ppb m



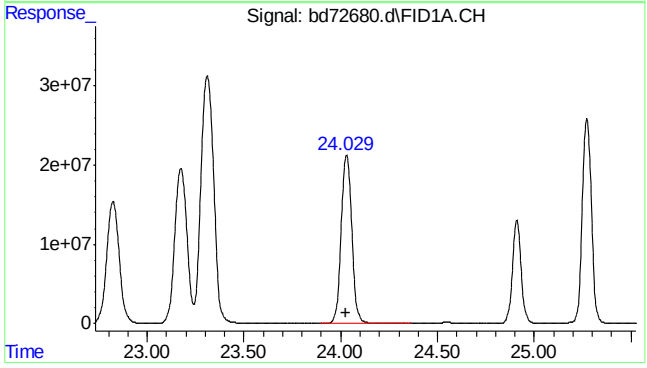
#13 ethylbenzene

R.T.: 23.174 min
Delta R.T.: 0.002 min
Response: 853280690
Conc: 1074.20 ppb



#14 m,p-xylene

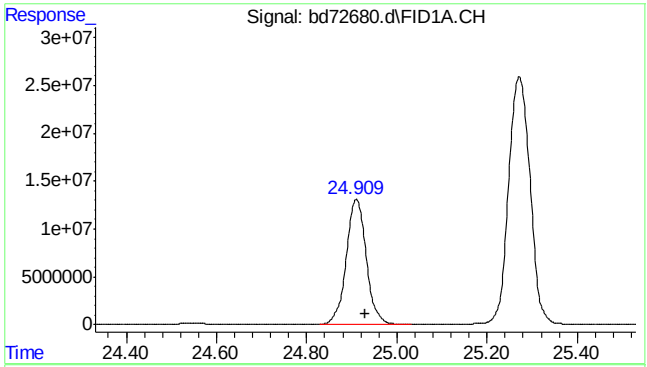
R.T.: 23.311 min
Delta R.T.: 0.004 min
Response: 1439377364
Conc: 1738.72 ppb



#15 o-xylene

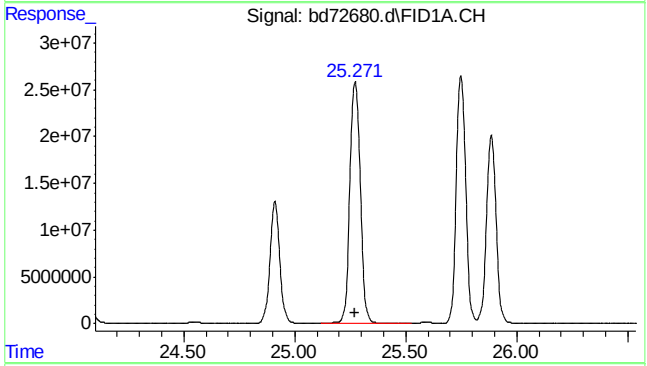
R.T.: 24.030 min
Delta R.T.: 0.001 min
Response: 813797703
Conc: 973.95 ppb

SGS ACCUTEST MC45897



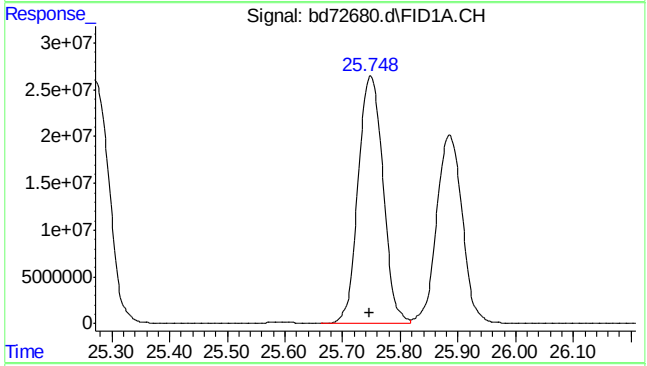
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 406144732
Conc: 436.32 ppb



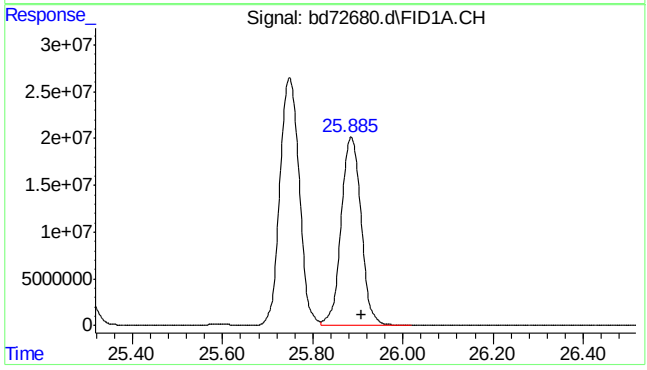
#17 1,3,5-trimethylbenzene

R.T.: 25.272 min
Delta R.T.: 0.003 min
Response: 856076033
Conc: 922.19 ppb



#18 1,2,4-trimethylbenzene

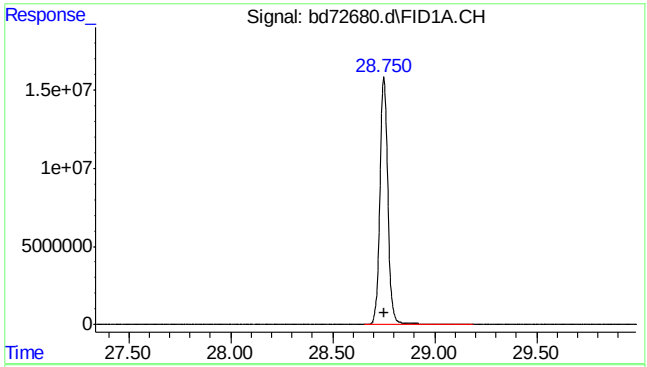
R.T.: 25.749 min
Delta R.T.: 0.002 min
Response: 793214434
Conc: 897.17 ppb



#19 butylcyclohexane

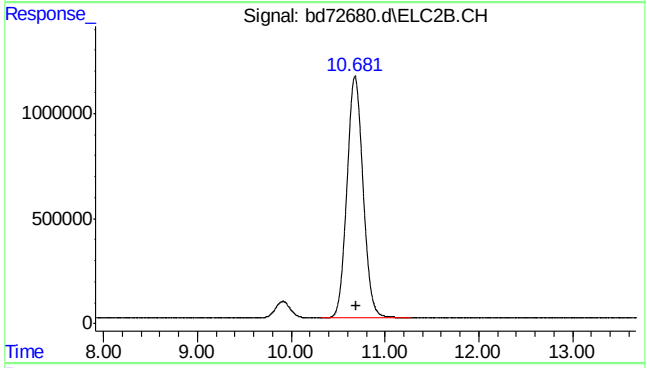
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 623852508
Conc: 658.45 ppb

SGS ACCUTEST MC45897



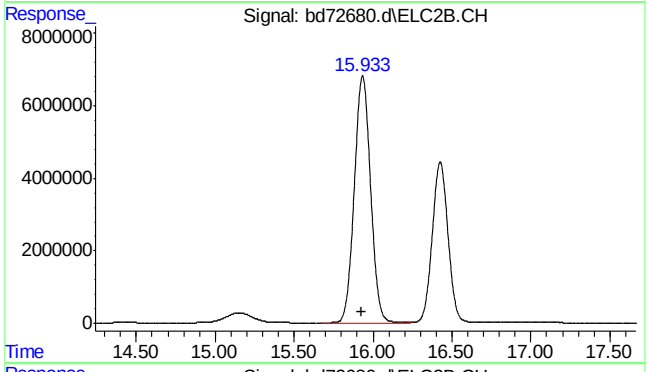
#20 naphthalene

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 426083724
Conc: 1009.12 ppb m



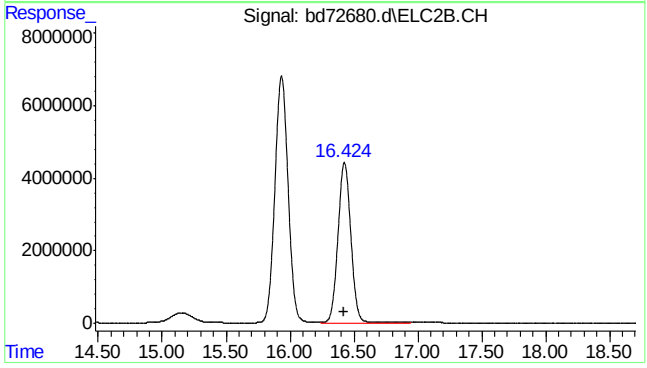
#23 mtbe #2

R.T.: 10.681 min
Delta R.T.: -0.015 min
Response: 136782818
Conc: 875.28 ppb



#24 benzene #2

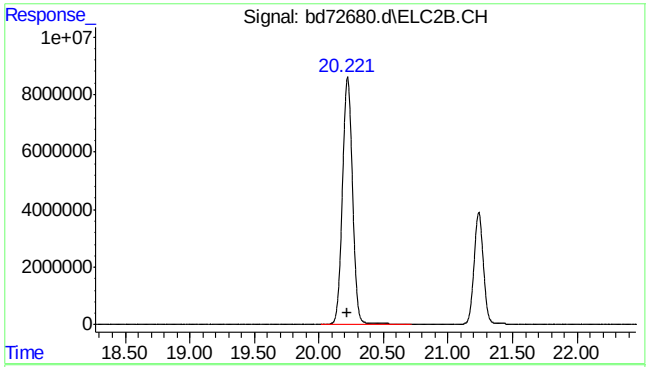
R.T.: 15.933 min
Delta R.T.: 0.001 min
Response: 486139863
Conc: 1005.90 ppb



#25 fluorobenzene #2

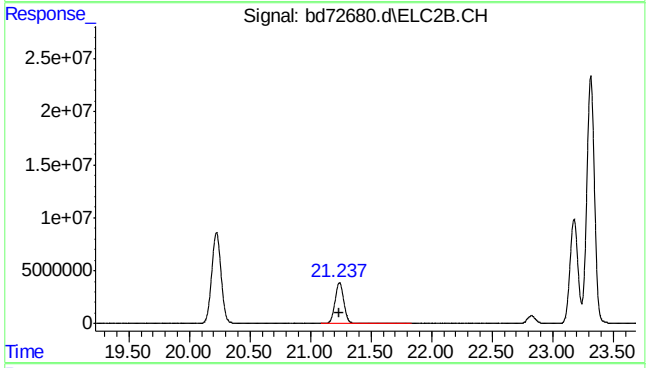
R.T.: 16.425 min
Delta R.T.: 0.001 min
Response: 307860163
Conc: 897.09 ppb

SGS ACCUTEST MC45897



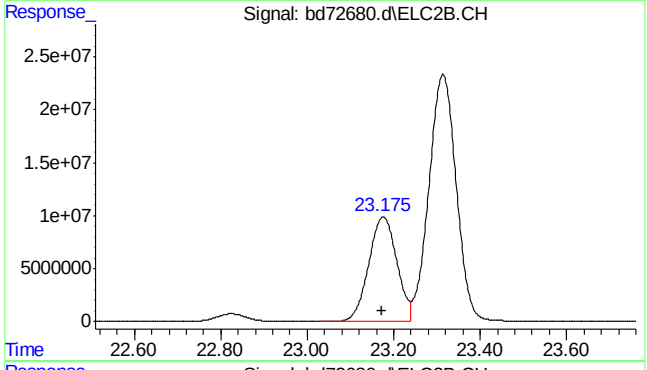
#26 toluene #2

R.T.: 20.222 min
Delta R.T.: 0.000 min
Response: 462559507
Conc: 1024.52 ppb



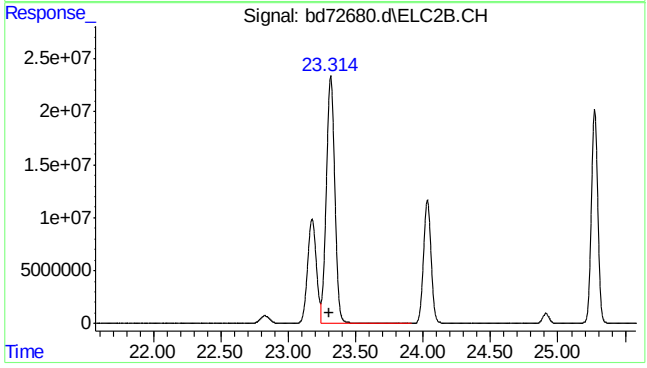
#27 2,3,4-trifluorotoluene #2

R.T.: 21.238 min
Delta R.T.: 0.001 min
Response: 193235935
Conc: 979.36 ppb



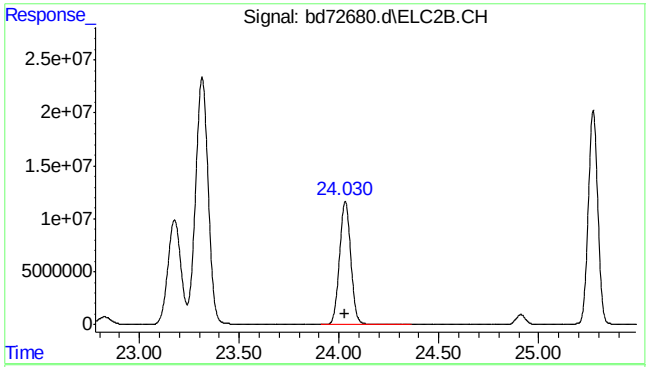
#28 ethylbenzene #2

R.T.: 23.176 min
Delta R.T.: 0.004 min
Response: 445869280
Conc: 1084.43 ppb



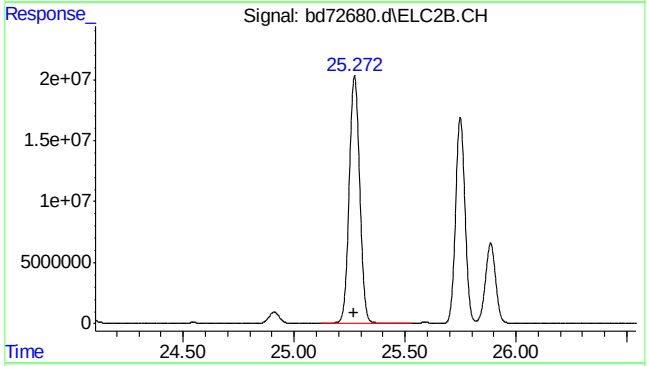
#29 m,p-xylene #2

R.T.: 23.314 min
Delta R.T.: 0.007 min
Response: 1026259910
Conc: 2066.54 ppb



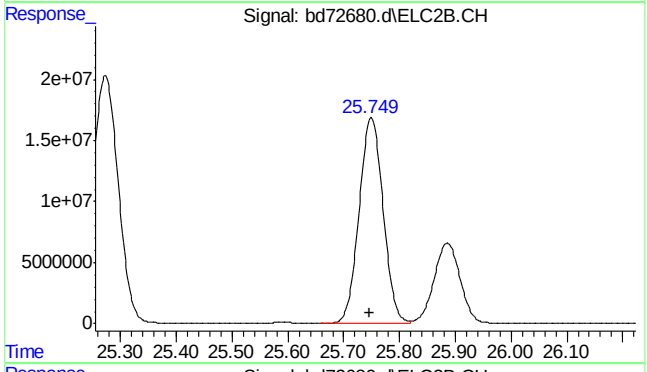
#30 o-xylene #2

R.T.: 24.031 min
Delta R.T.: 0.003 min
Response: 455064843
Conc: 1052.78 ppb



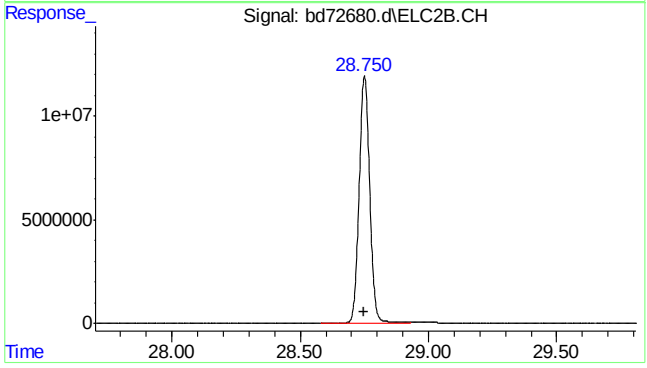
#31 1,3,5-trimethylbenzene #2

R.T.: 25.273 min
Delta R.T.: 0.005 min
Response: 672061053
Conc: 1001.72 ppb



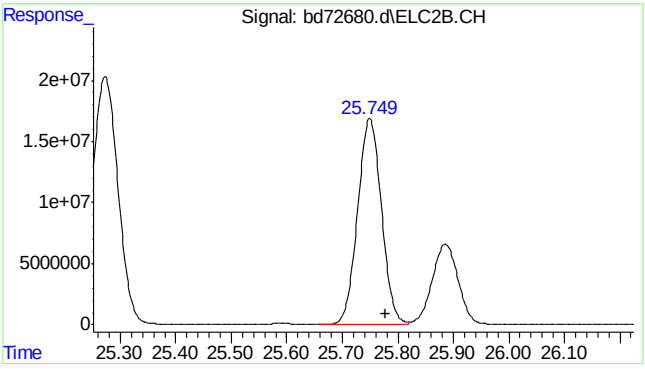
#32 1,2,4-trimethylbenzene #2

R.T.: 25.750 min
Delta R.T.: 0.004 min
Response: 503182098
Conc: 1025.93 ppb



#33 naphthalene #2

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 338646305
Conc: 1054.66 ppb




```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response: 503156214
      Conc: 1026.41 ppb m
```

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3572-500 (Sig #1); ic3752-500 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:20:50 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.424	280256461	399.892	ppb	
Spiked Amount 50.000		Recovery = 799.78%			
9) s 2,3,4-trifluorotoluene	21.236	223973992	419.811	ppb	
Spiked Amount 50.000		Recovery = 839.62%			
25) s fluorobenzene #2	16.423	154535173	444.003	ppb	
Spiked Amount 50.000		Recovery = 888.01%			
27) s 2,3,4-trifluorotoluen...	21.236	93431261	469.974	ppb	
Spiked Amount 50.000		Recovery = 939.95%			
Target Compounds					
1) h rt5.5-7	7.470	250696304	426.891	ppb	m
2) h rt7/10	9.920	302369528	442.953	ppb	m
3) mtbe	10.677	149463905	497.901	ppb	
4) h rt10/13	15.200	202634743	293.051	ppb	m
5) benzene	15.932	369202764	472.034	ppb	
8) toluene	20.219	393743577	507.847	ppb	
11) h rt20/25	22.840	346681859	407.862	ppb	m
13) ethylbenzene	23.171	415193330	526.099	ppb	
14) m,p-xylene	23.307	837537821	1013.412	ppb	
15) o-xylene	24.028	409323205	488.463	ppb	
16) h decane	24.930	328410851	338.576	ppb	
17) t 1,3,5-trimethylbenzene	25.270	460707488	495.762	ppb	
18) 1,2,4-trimethylbenzene	25.747	446599621	505.867	ppb	
19) h butylcyclohexane	25.908	364778065	372.763	ppb	
20) naphthalene	28.748	235968786	568.416	ppb	m
23) mtbe #2	10.676f	72995113	462.747	ppb	
24) benzene #2	15.931	243796320	505.098	ppb	
26) toluene #2	20.219	229409498	509.300	ppb	
28) ethylbenzene #2	23.171	214894088	526.067	ppb	
29) m,p-xylene #2	23.308	505002305	1019.367	ppb	
30) o-xylene #2	24.028	220290152	511.042	ppb	
31) t 1,3,5-trimethylbenzen...	25.270	339709347	507.265	ppb	
32) 1,2,4-trimethylbenzen...	25.747	256663102	526.816	ppb	
33) naphthalene #2	28.748	191420125	612.985	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	256536580	526.828	ppb	m

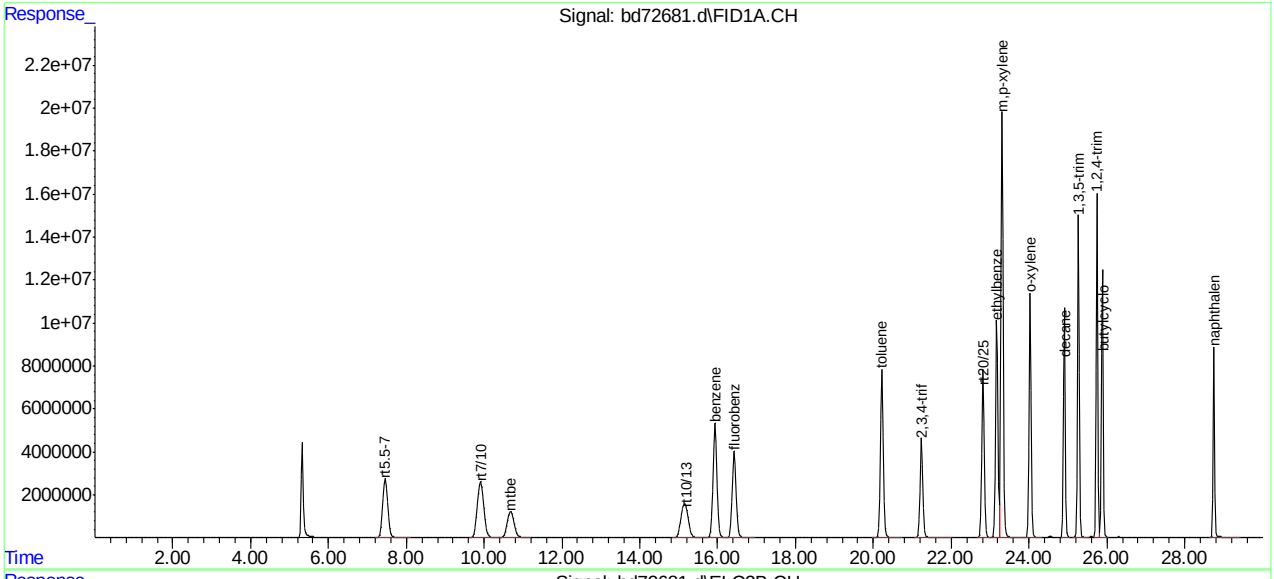
(f)=RT Delta > 1/2 Window (m)=manual int.

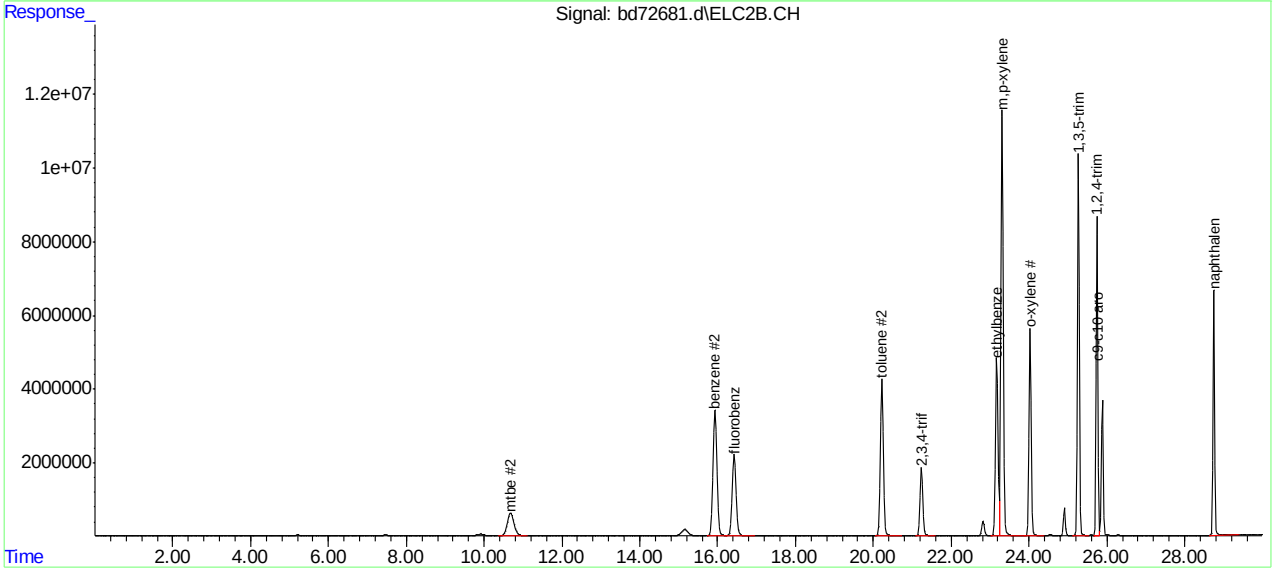
Quantitation Report (QT Reviewed)

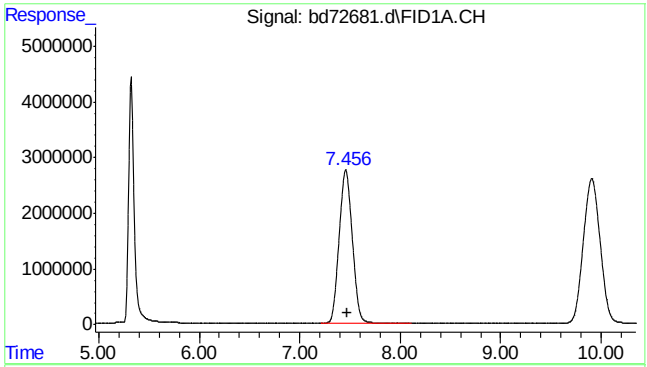
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3572-500 (Sig #1); ic3752-500 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:20:50 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

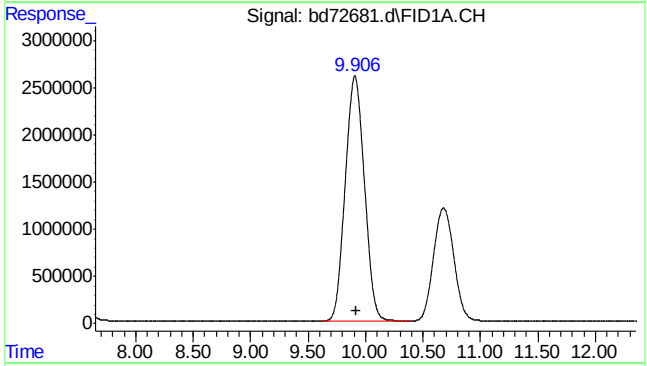






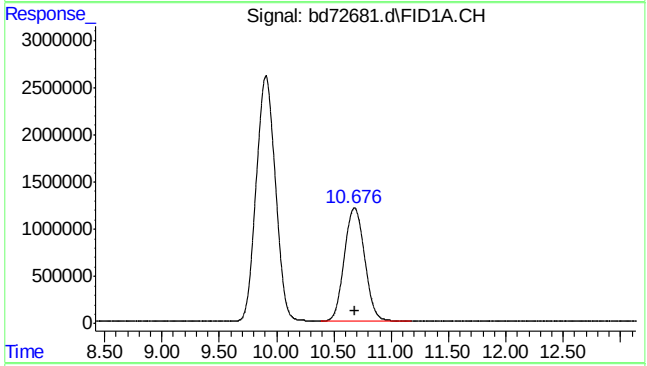
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 250696304
Conc: 426.89 ppb m



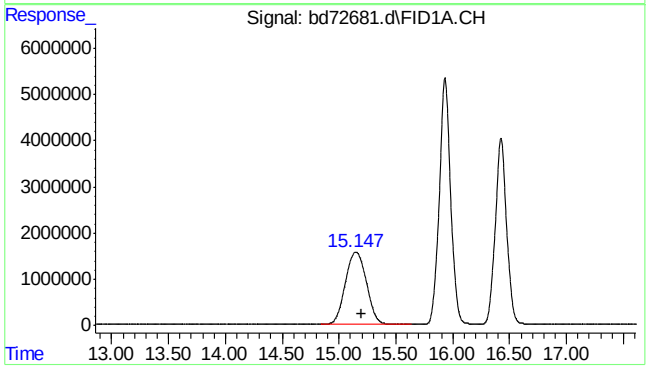
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 302369528
Conc: 442.95 ppb m



#3 mtbe

R.T.: 10.677 min
Delta R.T.: -0.006 min
Response: 149463905
Conc: 497.90 ppb



#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 202634743
Conc: 293.05 ppb m

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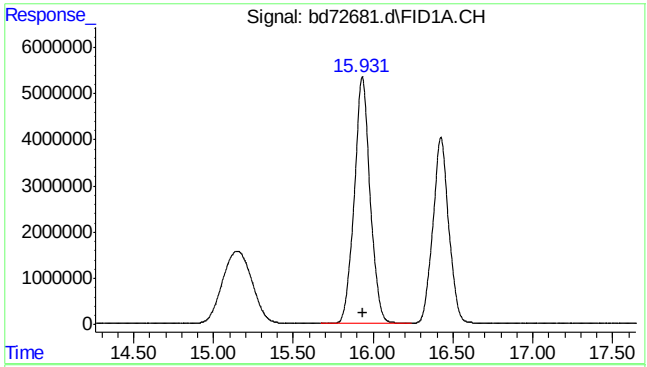
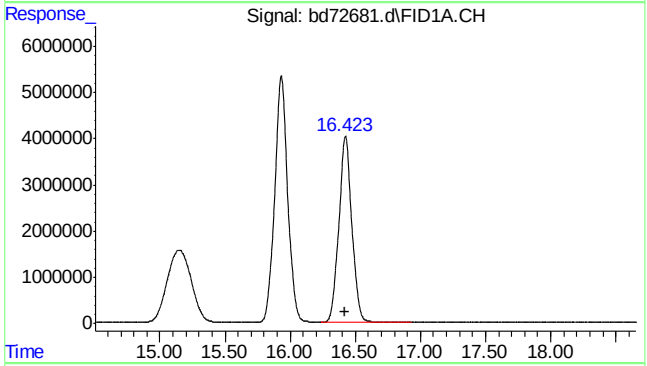


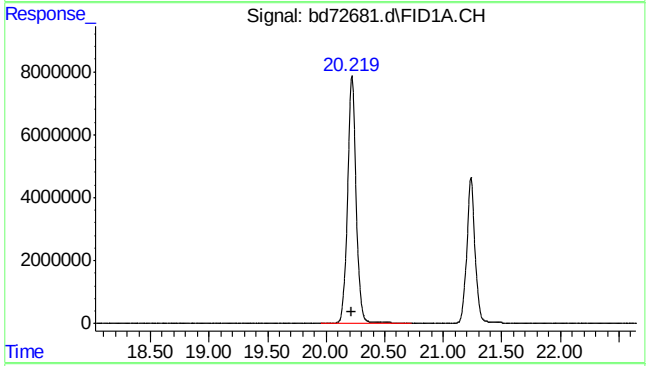
#5 benzene

R.T.: 15.932 min
Delta R.T.: -0.001 min
Response: 369202764
Conc: 472.03 ppb



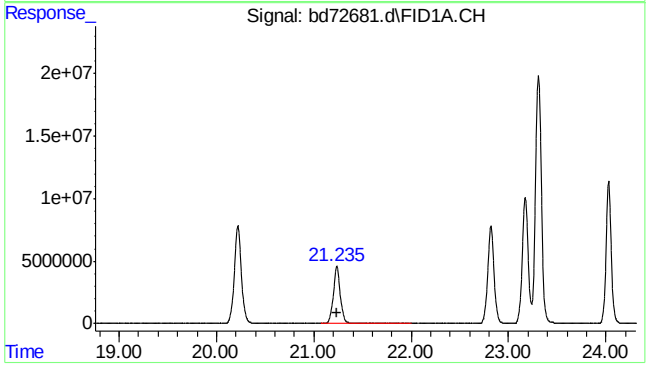
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 280256461
Conc: 399.89 ppb



#8 toluene

R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 393743577
Conc: 507.85 ppb



#9 2,3,4-trifluorotoluene

R.T.: 21.236 min
Delta R.T.: 0.000 min
Response: 223973992
Conc: 419.81 ppb

7.5.2

7

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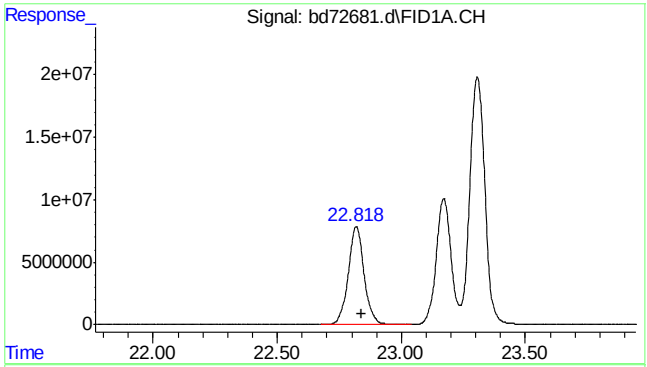
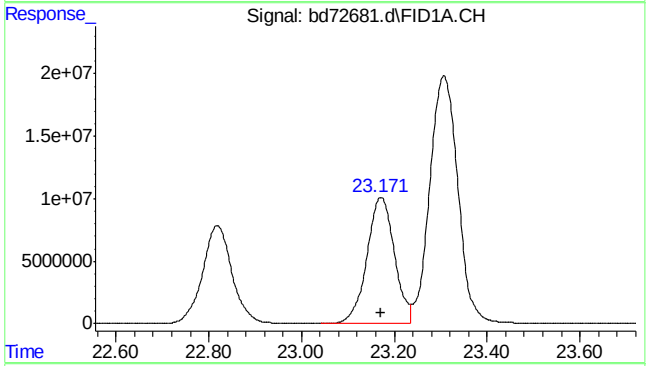


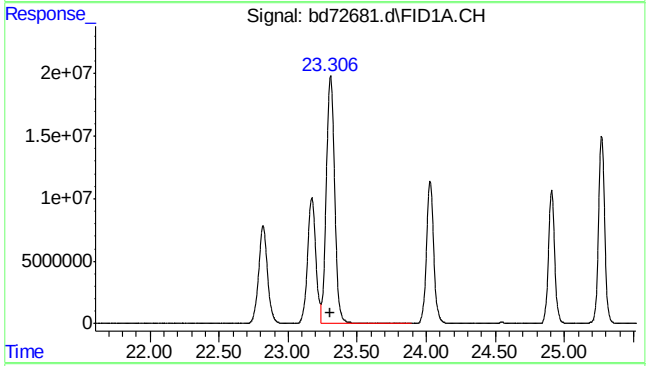
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 346681859
Conc: 407.86 ppb m



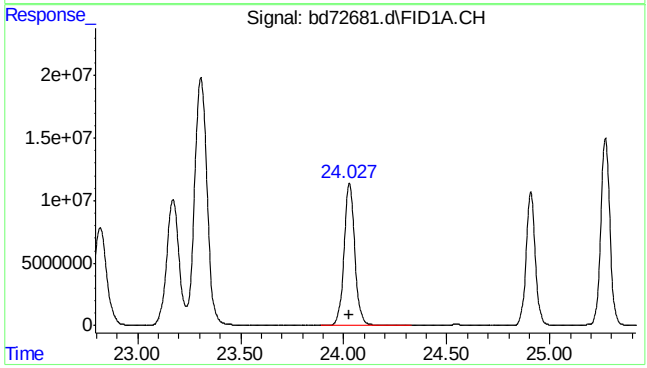
#13 ethylbenzene

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 415193330
Conc: 526.10 ppb



#14 m,p-xylene

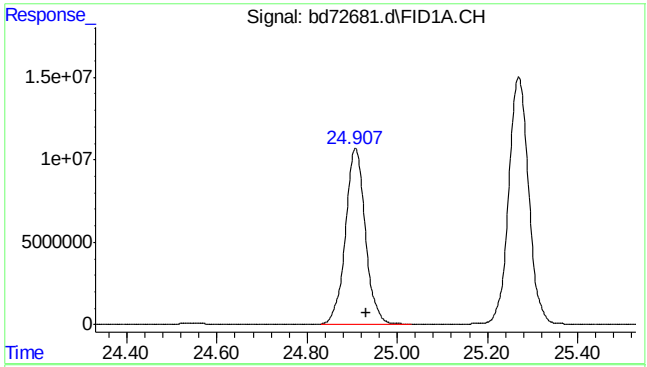
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 837537821
Conc: 1013.41 ppb



#15 o-xylene

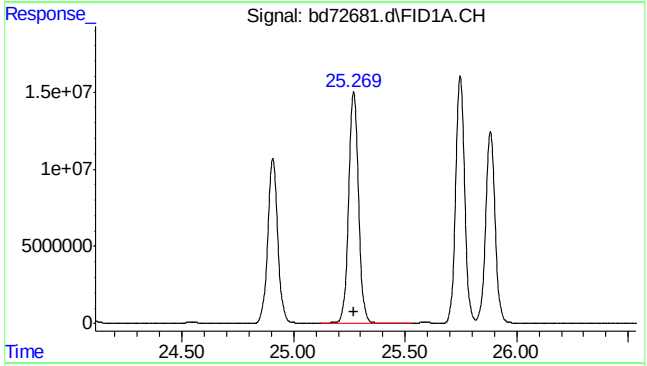
R.T.: 24.028 min
Delta R.T.: -0.001 min
Response: 409323205
Conc: 488.46 ppb

SGS ACCUTEST MC45897



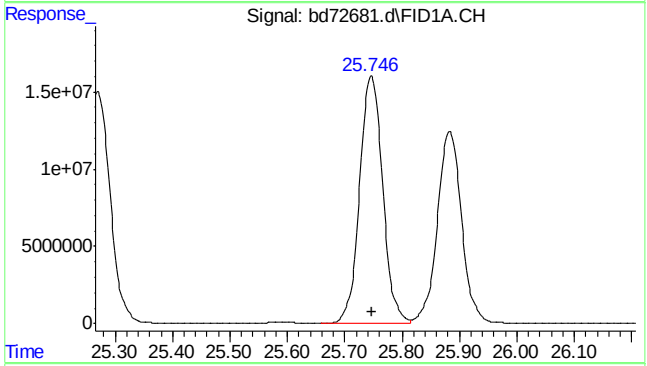
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 328410851
Conc: 338.58 ppb



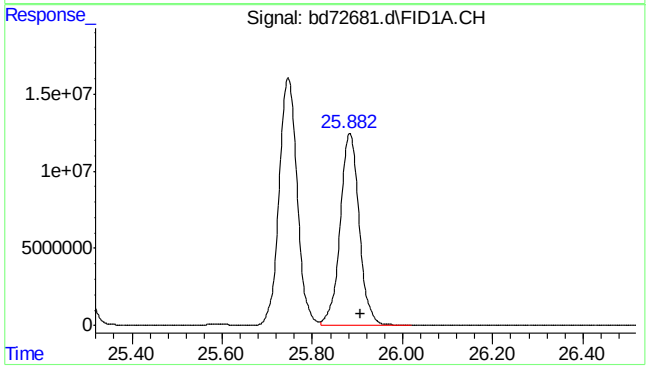
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 460707488
Conc: 495.76 ppb



#18 1,2,4-trimethylbenzene

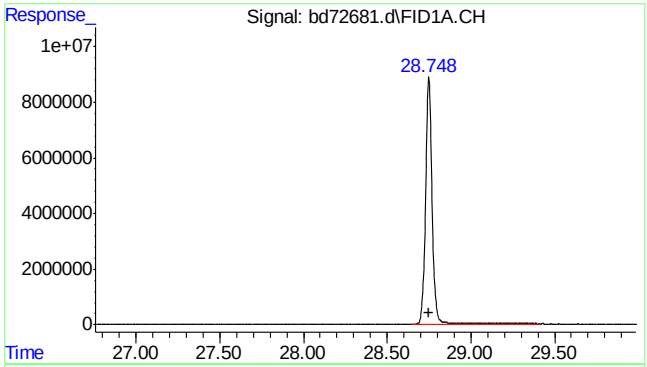
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 446599621
Conc: 505.87 ppb



#19 butylcyclohexane

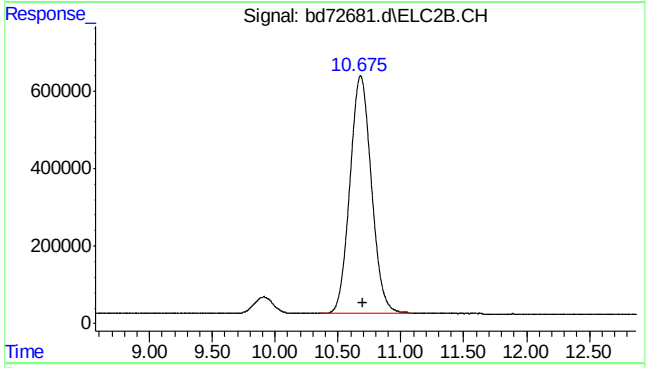
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 364778065
Conc: 372.76 ppb

SGS ACCUTEST MC45897



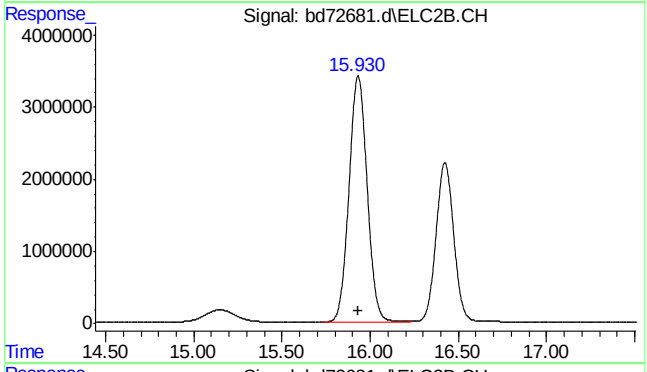
#20 naphthalene

R.T.: 28.748 min
Delta R.T.: -0.003 min
Response: 235968786
Conc: 568.42 ppb m



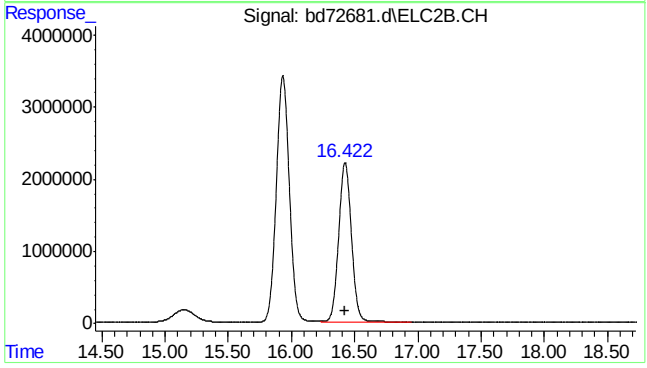
#23 mtbe #2

R.T.: 10.676 min
Delta R.T.: -0.020 min
Response: 72995113
Conc: 462.75 ppb



#24 benzene #2

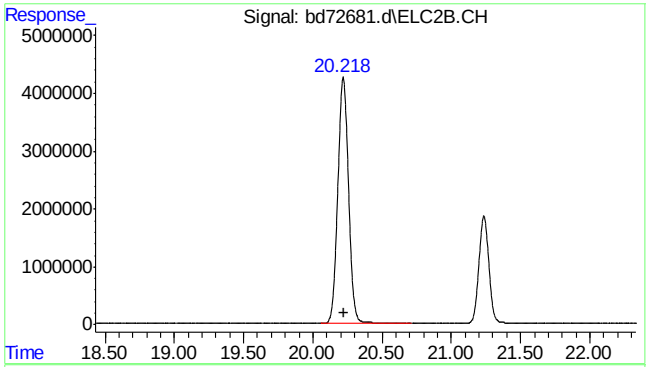
R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 243796320
Conc: 505.10 ppb



#25 fluorobenzene #2

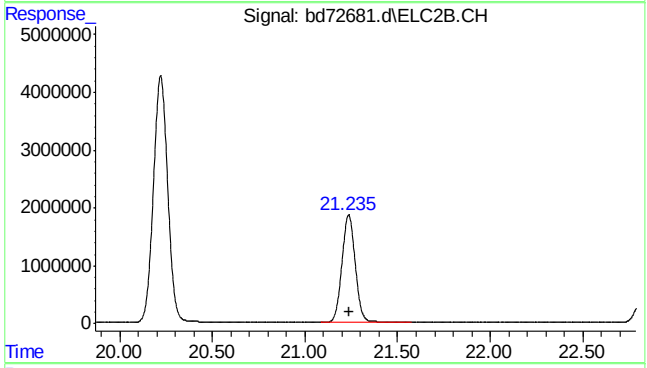
R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 154535173
Conc: 444.00 ppb

SGS ACCUTEST MC45897



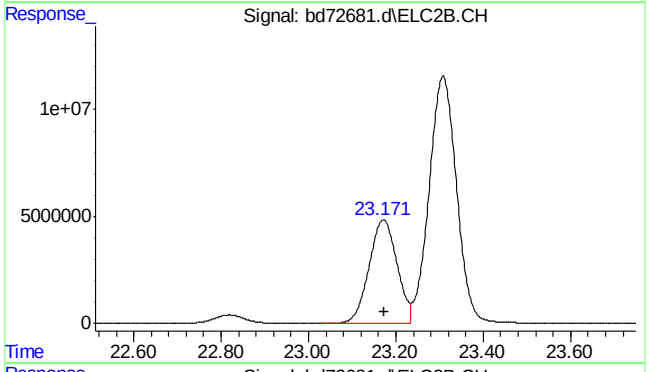
#26 toluene #2

R.T.: 20.219 min
Delta R.T.: -0.002 min
Response: 229409498
Conc: 509.30 ppb



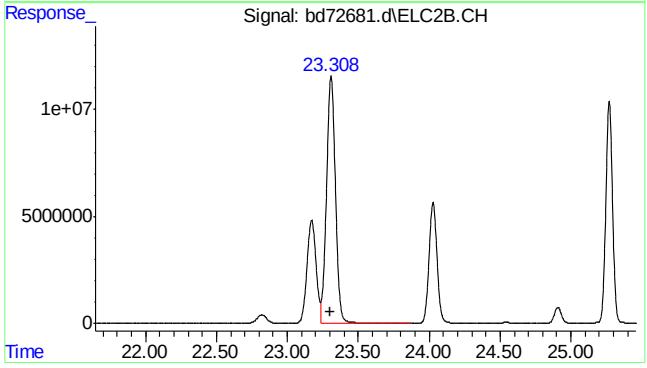
#27 2,3,4-trifluorotoluene #2

R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 93431261
Conc: 469.97 ppb



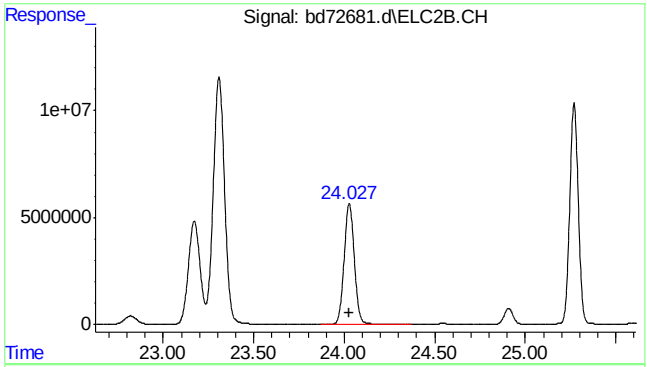
#28 ethylbenzene #2

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 214894088
Conc: 526.07 ppb



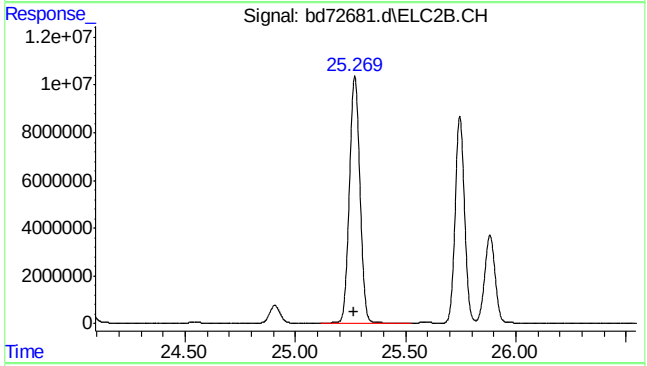
#29 m,p-xylene #2

R.T.: 23.308 min
Delta R.T.: 0.001 min
Response: 505002305
Conc: 1019.37 ppb



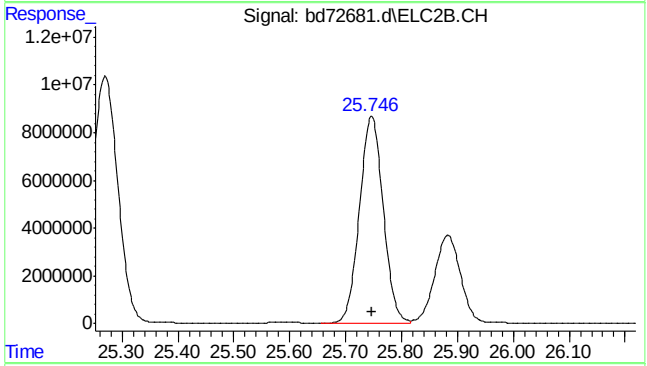
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 220290152
Conc: 511.04 ppb



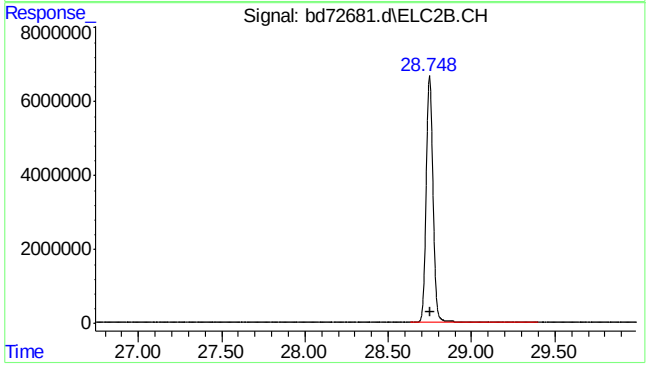
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.002 min
Response: 339709347
Conc: 507.27 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 256663102
Conc: 526.82 ppb



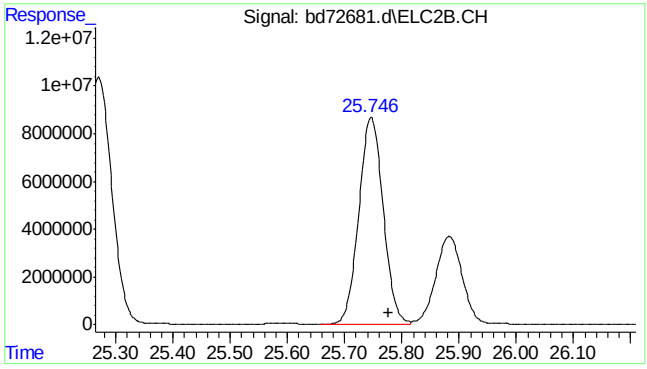
#33 naphthalene #2

R.T.: 28.748 min
Delta R.T.: -0.002 min
Response: 191420125
Conc: 612.98 ppb m

7.5.2

7

SGS ACCUTEST MC45897




```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response: 256536580
      Conc: 526.83 ppb m
```

7.5.2

7

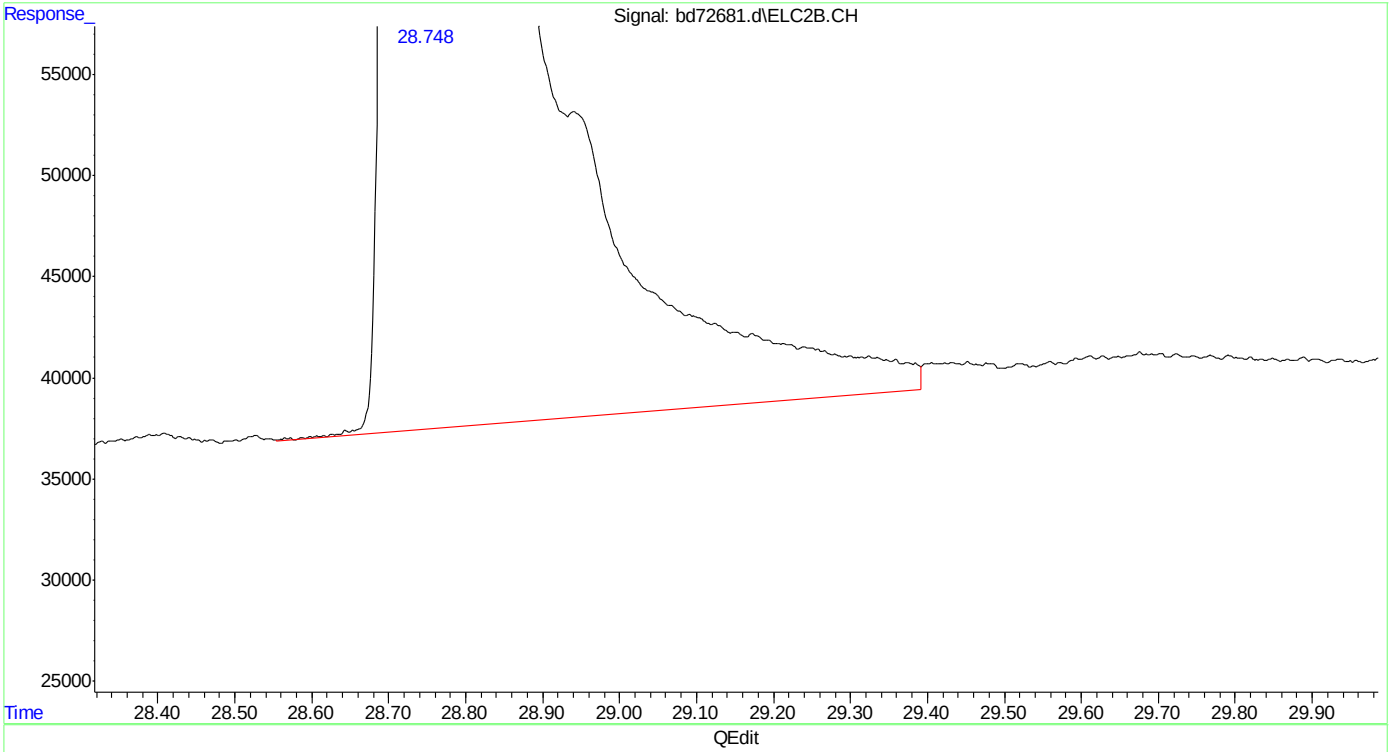
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 08:15:10
Operator  : tonyf
Sample    : ic3752-500
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:19:31 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(33) naphthalene #2

28.748min 613.914 ppb

response 191710301

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:20:27 2016

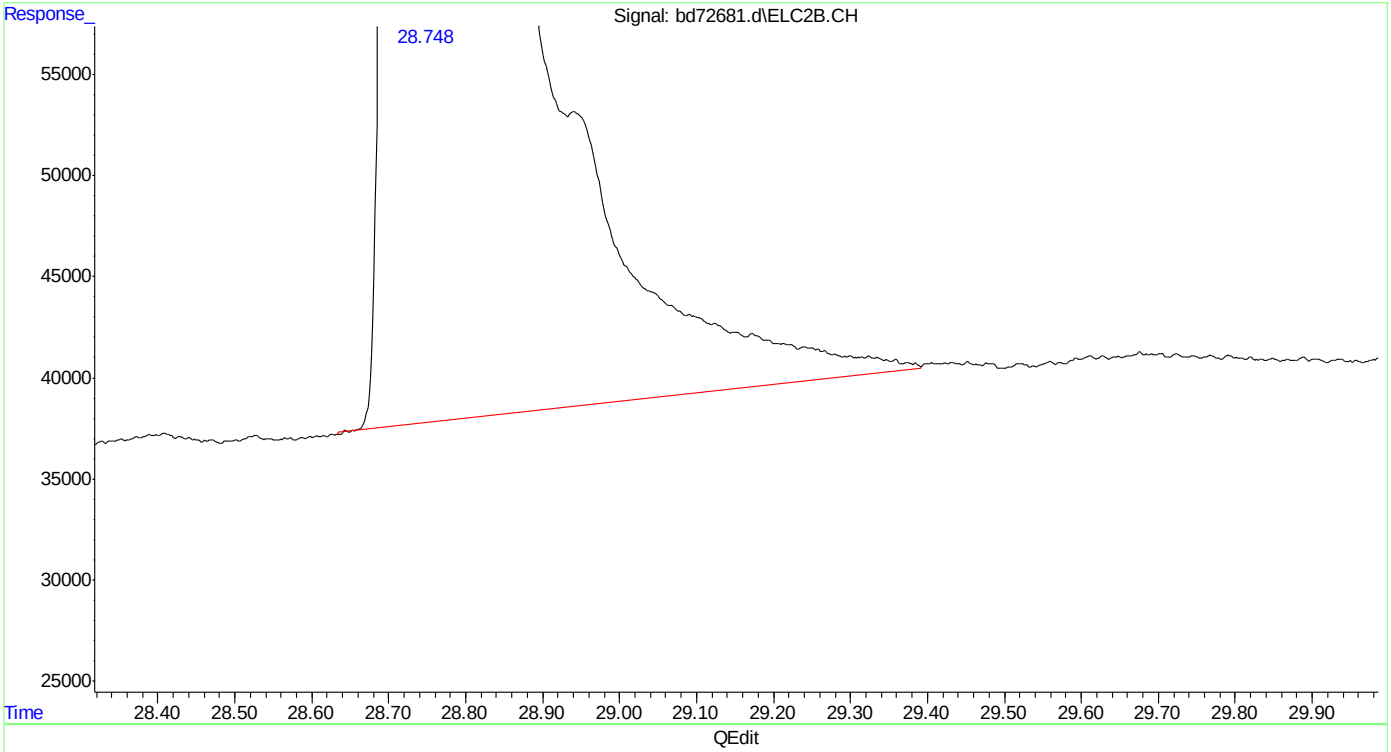
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3752-500
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:19:31 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.748min 612.985 ppb m
response 191420125

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:20:32 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3572-250 (Sig #1); ic3752-250 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:18:57 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.424	152497733	212.995	ppb	
Spiked Amount 50.000		Recovery = 425.99%			
9) s 2,3,4-trifluorotoluene	21.236	112527515	205.563	ppb	
Spiked Amount 50.000		Recovery = 411.13%			
25) s fluorobenzene #2	16.423	80345593	227.934	ppb	
Spiked Amount 50.000		Recovery = 455.87%			
27) s 2,3,4-trifluorotoluen...	21.236	47736212	238.550	ppb	
Spiked Amount 50.000		Recovery = 477.10%			
Target Compounds					
1) h rt5.5-7	7.470	149066038	254.483	ppb	m
2) h rt7/10	9.920	173228736	254.409	ppb	m
3) mtbe	10.678	84104242	285.923	ppb	
4) h rt10/13	15.200	140035220	196.306	ppb	m
5) benzene	15.931	191470179	243.953	ppb	
8) toluene	20.220	185707723	237.863	ppb	
11) h rt20/25	22.840	158091359	178.378	ppb	m
13) ethylbenzene	23.172	190000309	239.278	ppb	
14) m,p-xylene	23.307	432876904	527.961	ppb	
15) o-xylene	24.029	200540345	237.621	ppb	
16) h decane	24.930	160400652	156.533	ppb	
17) t 1,3,5-trimethylbenzene	25.270	228714832	245.482	ppb	
18) 1,2,4-trimethylbenzene	25.747	227512016	259.035	ppb	
19) h butylcyclohexane	25.908	187694750	184.640	ppb	
20) naphthalene	28.749	124639753	310.645	ppb	m
23) mtbe #2	10.677f	40250861	256.049	ppb	
24) benzene #2	15.931	127028075	265.510	ppb	
26) toluene #2	20.220	118896684	266.435	ppb	
28) ethylbenzene #2	23.171	108390981	268.086	ppb	
29) m,p-xylene #2	23.307	257583489	523.422	ppb	
30) o-xylene #2	24.028	110009431	256.095	ppb	
31) t 1,3,5-trimethylbenzen...	25.270	168355318	251.628	ppb	
32) 1,2,4-trimethylbenzen...	25.747	127084846	262.750	ppb	
33) naphthalene #2	28.749	101943811	343.988	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	127045219	262.812	ppb	m

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

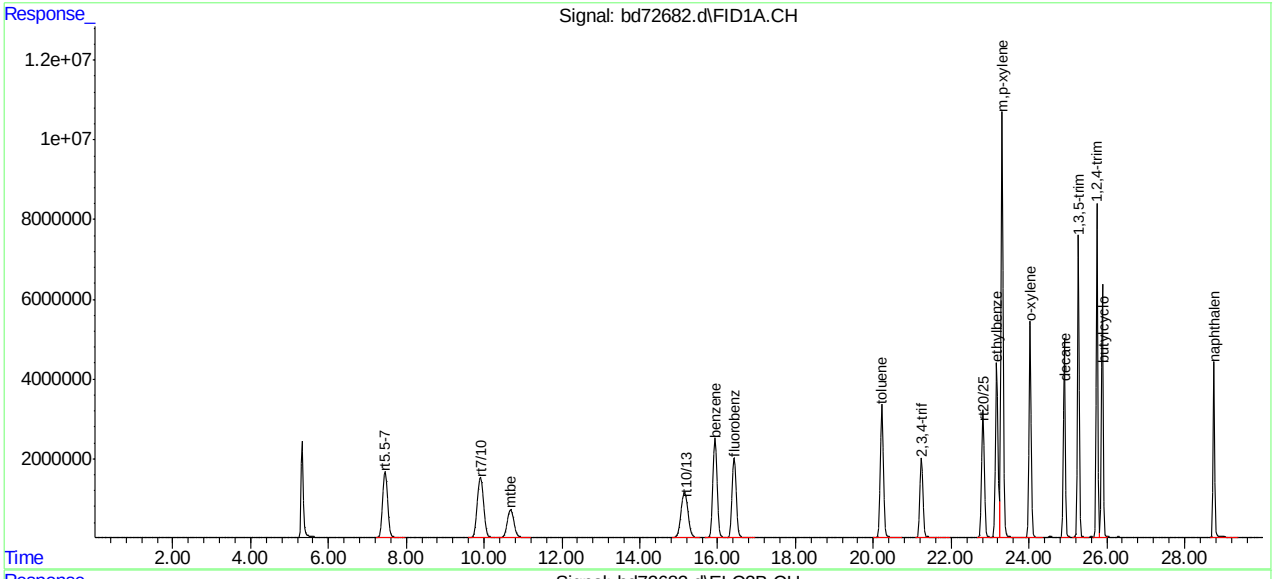
SGS ACCUTEST MC45897

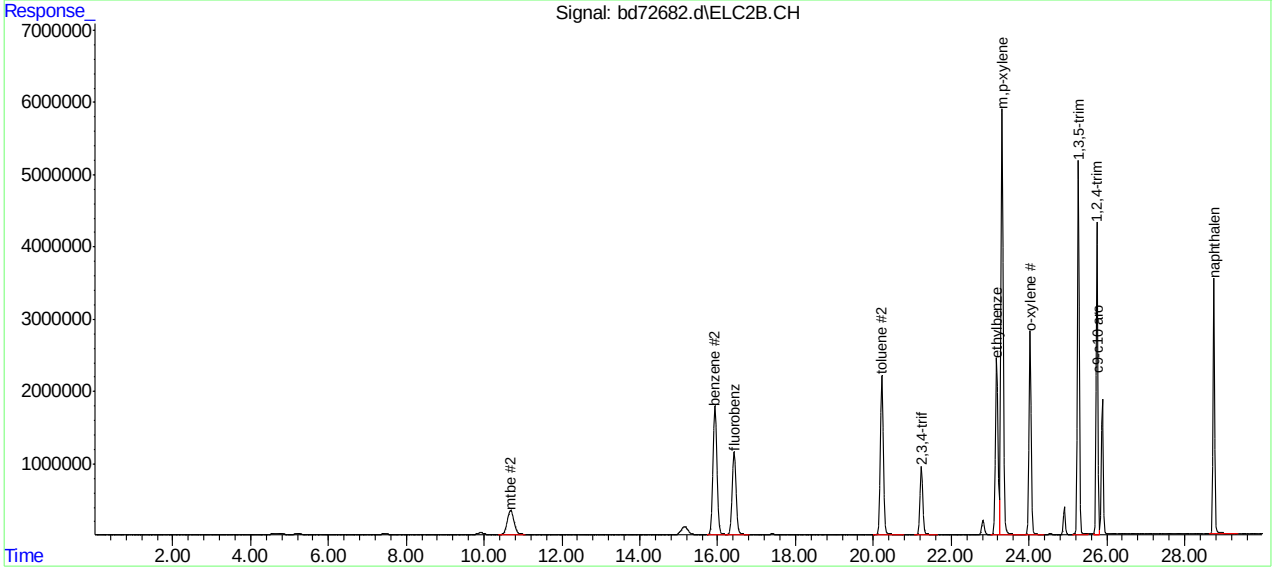
Quantitation Report (QT Reviewed)

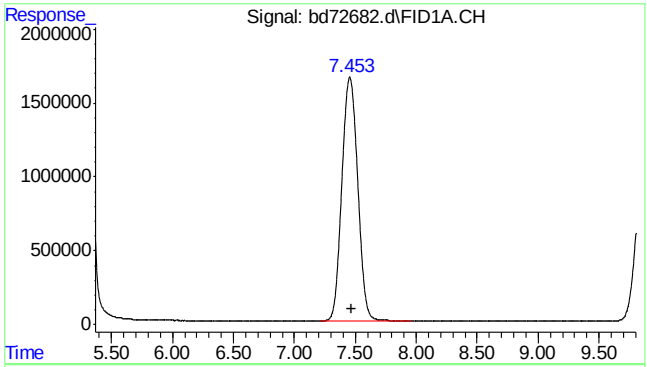
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3572-250 (Sig #1); ic3752-250 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:18:57 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

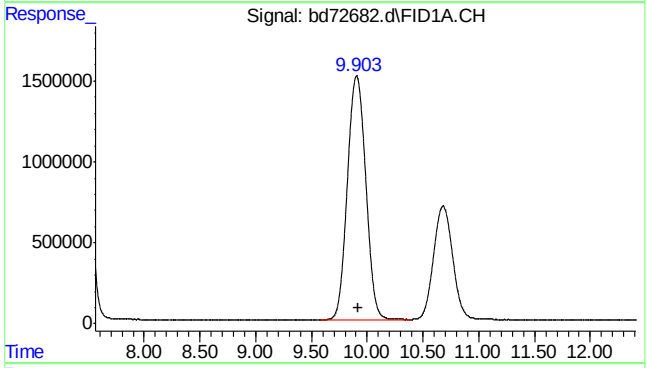






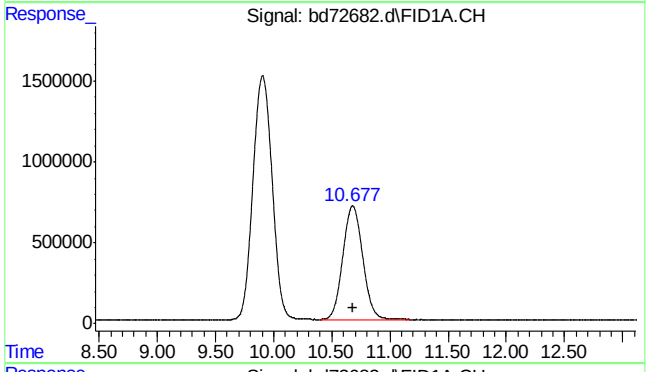
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 149066038
Conc: 254.48 ppb m



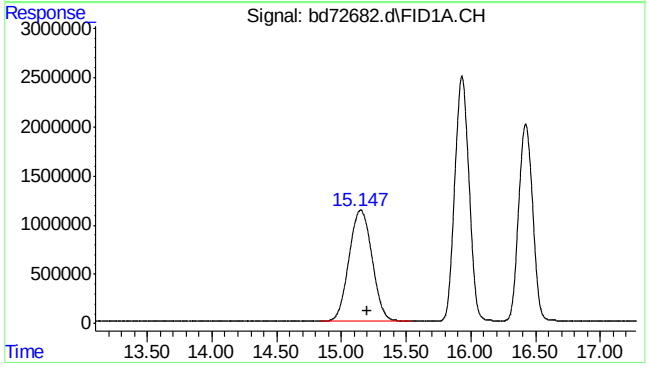
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 173228736
Conc: 254.41 ppb m



#3 mtbe

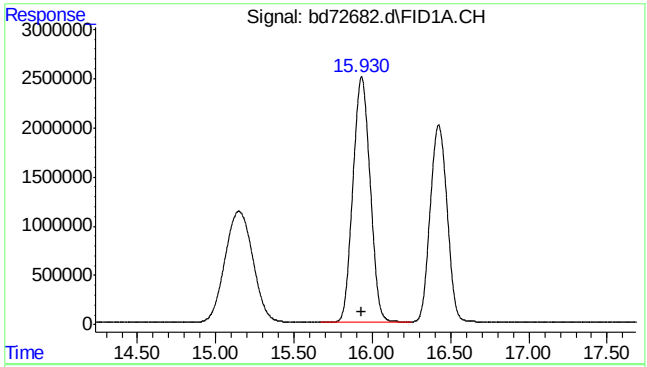
R.T.: 10.678 min
Delta R.T.: -0.005 min
Response: 84104242
Conc: 285.92 ppb



#4 rt10/13

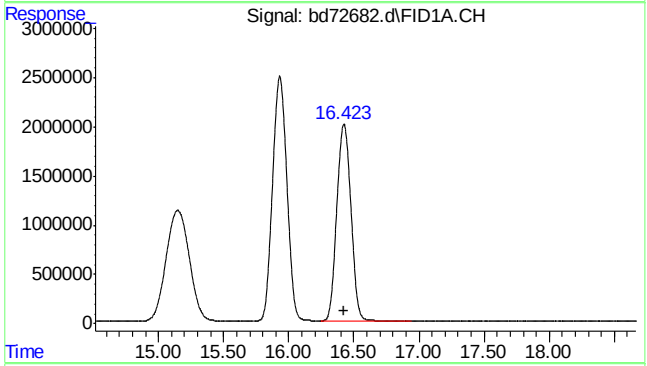
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 140035220
Conc: 196.31 ppb m

SGS ACCUTEST MC45897



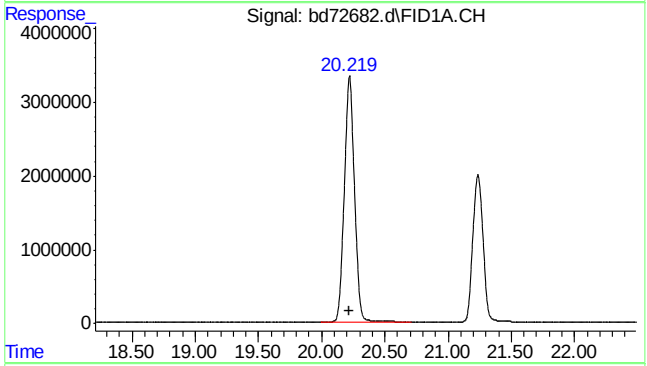
#5 benzene

R.T.: 15.931 min
Delta R.T.: -0.002 min
Response: 191470179
Conc: 243.95 ppb



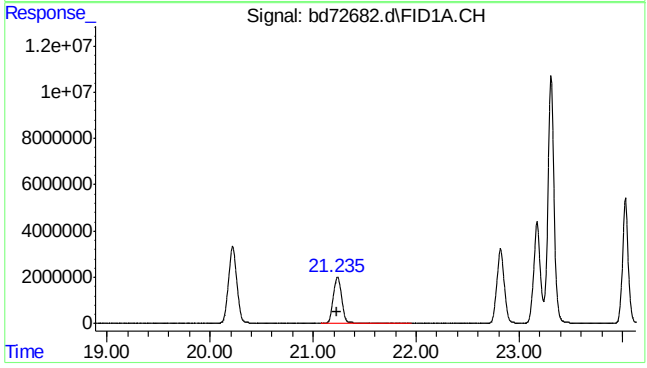
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 152497733
Conc: 212.99 ppb



#8 toluene

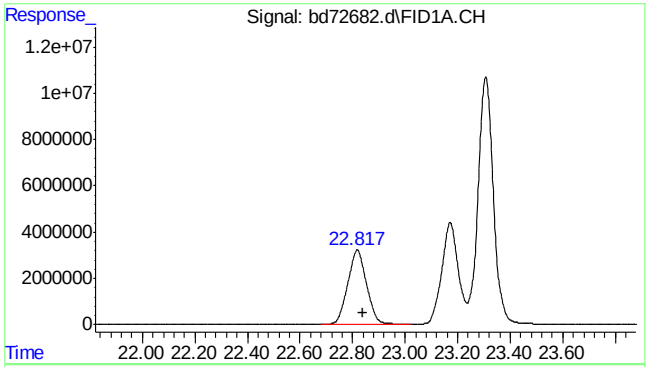
R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 185707723
Conc: 237.86 ppb



#9 2,3,4-trifluorotoluene

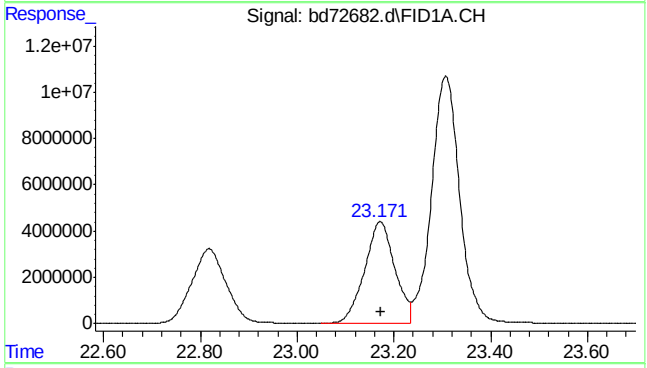
R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 112527515
Conc: 205.56 ppb

SGS ACCUTEST MC45897



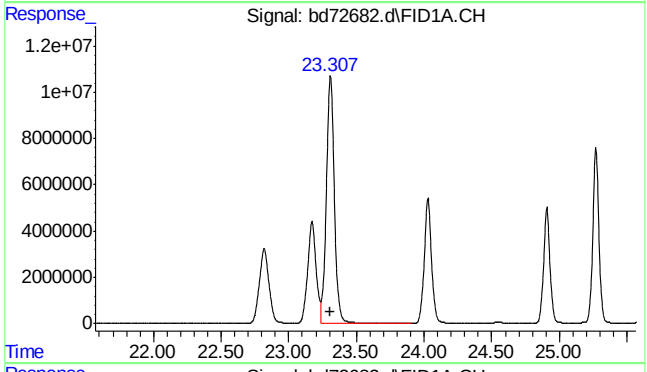
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 158091359
Conc: 178.38 ppb m



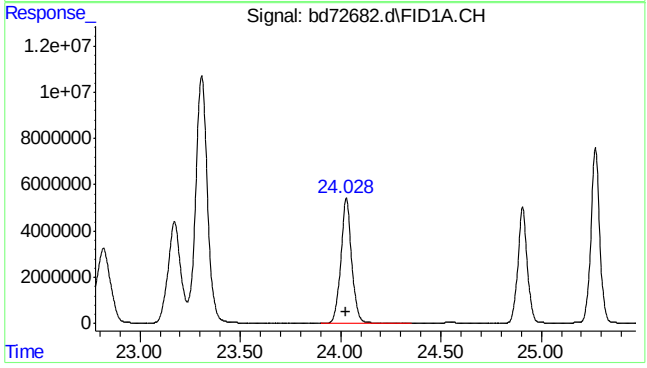
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 190000309
Conc: 239.28 ppb



#14 m,p-xylene

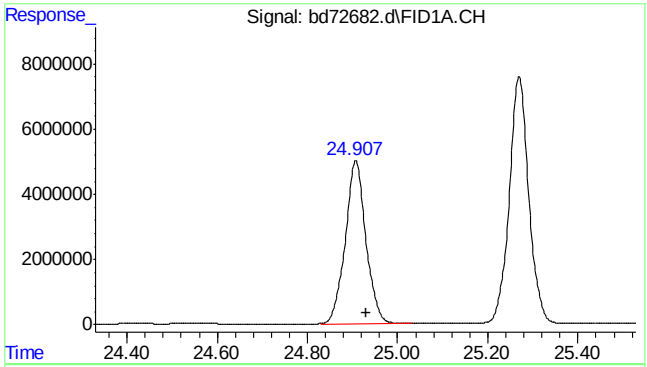
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 432876904
Conc: 527.96 ppb



#15 o-xylene

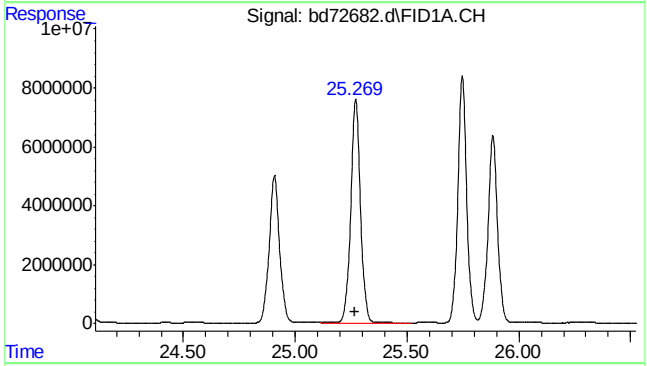
R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 200540345
Conc: 237.62 ppb

SGS ACCUTEST MC45897



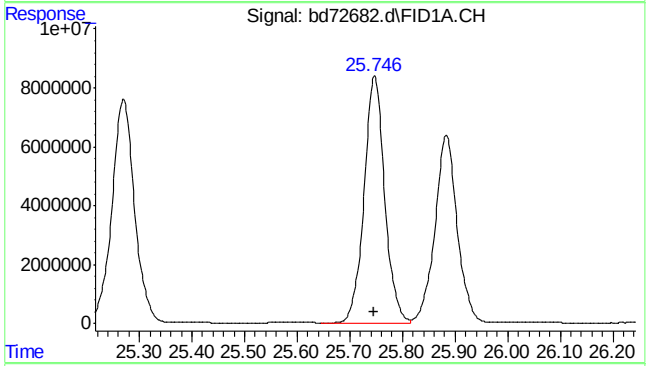
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 160400652
Conc: 156.53 ppb



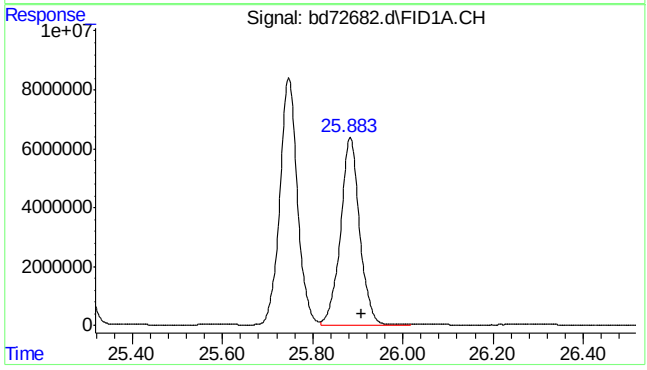
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 228714832
Conc: 245.48 ppb



#18 1,2,4-trimethylbenzene

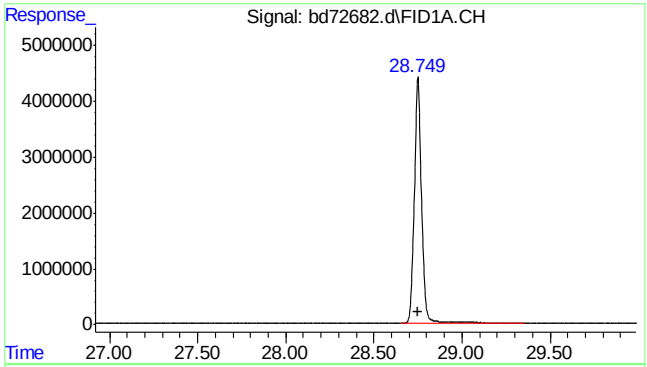
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 227512016
Conc: 259.04 ppb



#19 butylcyclohexane

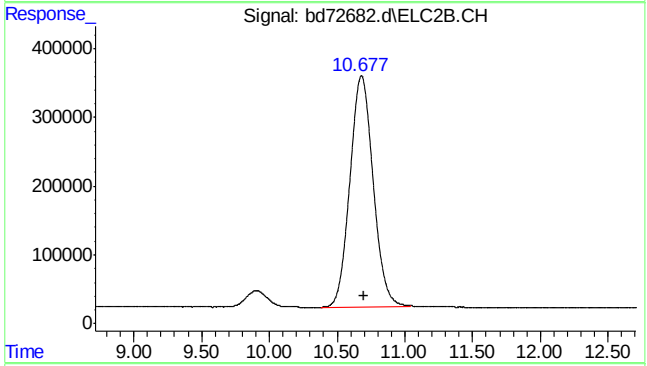
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 187694750
Conc: 184.64 ppb

SGS ACCUTEST MC45897



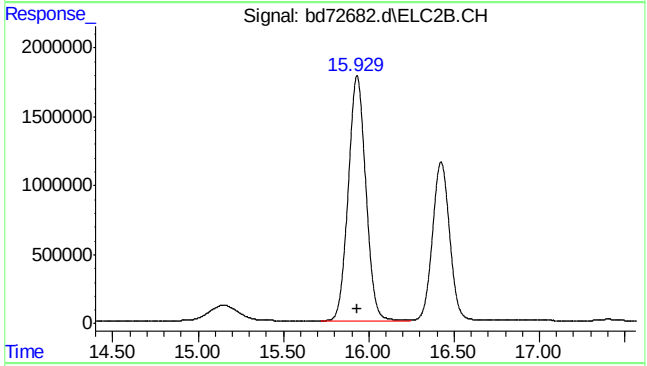
#20 naphthalene

R.T.: 28.749 min
Delta R.T.: -0.002 min
Response: 124639753
Conc: 310.64 ppb m



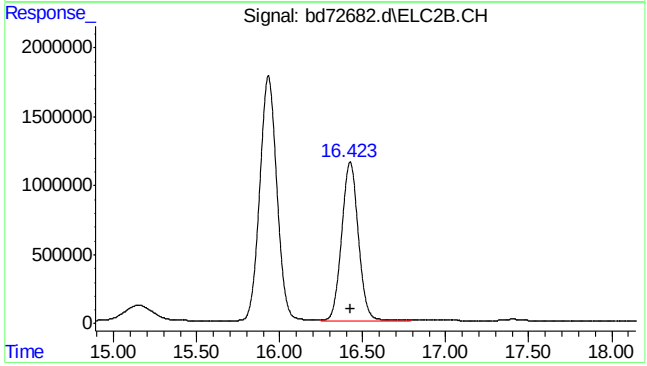
#23 mtbe #2

R.T.: 10.677 min
Delta R.T.: -0.019 min
Response: 40250861
Conc: 256.05 ppb



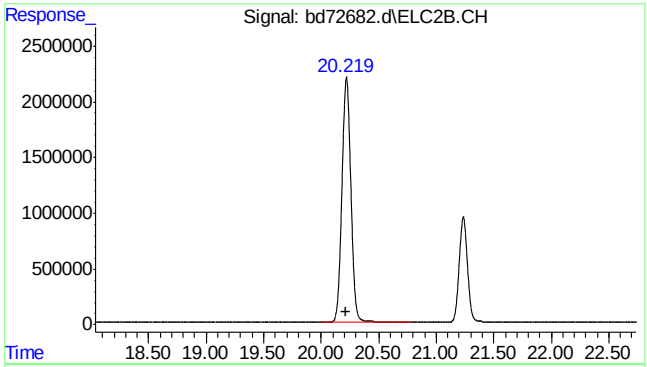
#24 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 127028075
Conc: 265.51 ppb



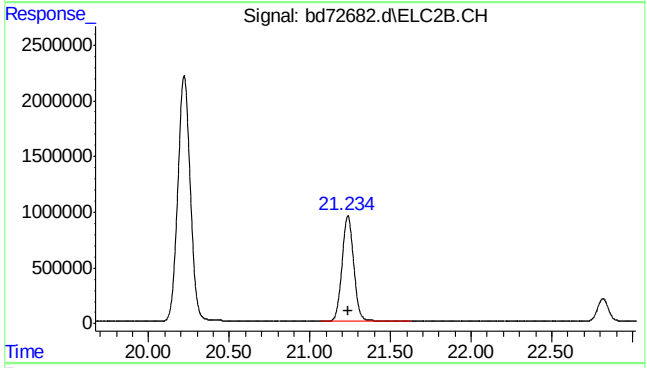
#25 fluorobenzene #2

R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 80345593
Conc: 227.93 ppb



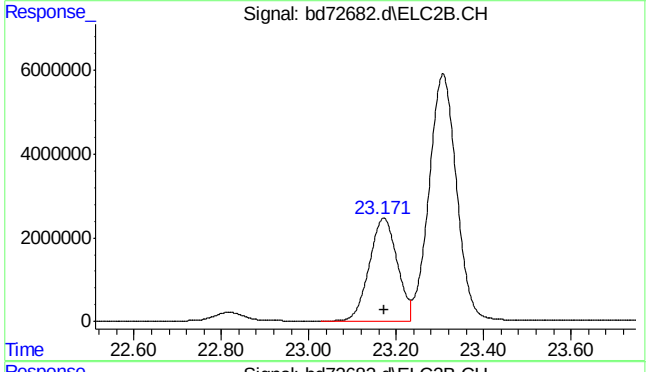
#26 toluene #2

R.T.: 20.220 min
Delta R.T.: -0.001 min
Response: 118896684
Conc: 266.44 ppb



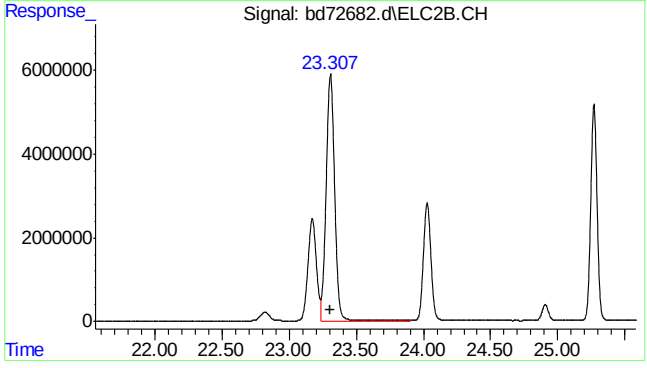
#27 2,3,4-trifluorotoluene #2

R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 47736212
Conc: 238.55 ppb



#28 ethylbenzene #2

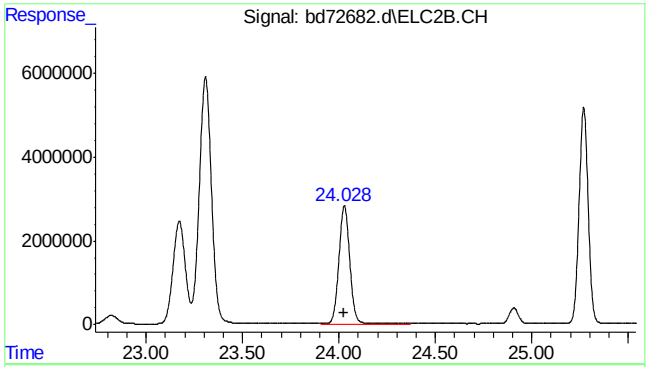
R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 108390981
Conc: 268.09 ppb



#29 m,p-xylene #2

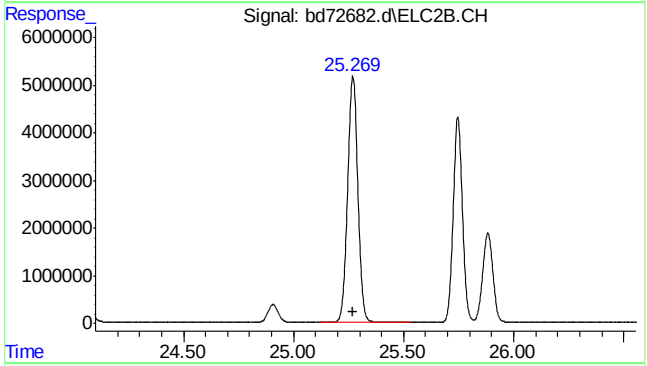
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 257583489
Conc: 523.42 ppb

SGS ACCUTEST MC45897



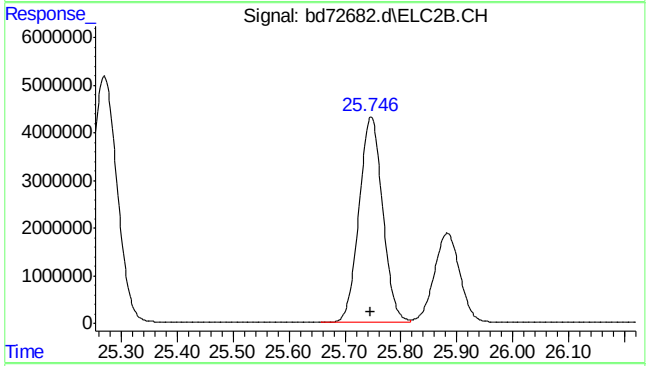
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 110009431
Conc: 256.10 ppb



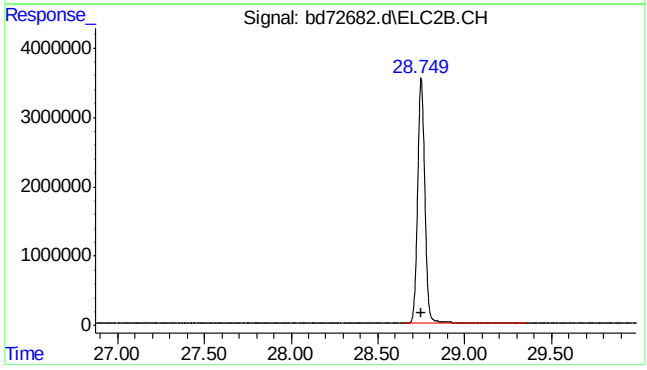
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.002 min
Response: 168355318
Conc: 251.63 ppb



#32 1,2,4-trimethylbenzene #2

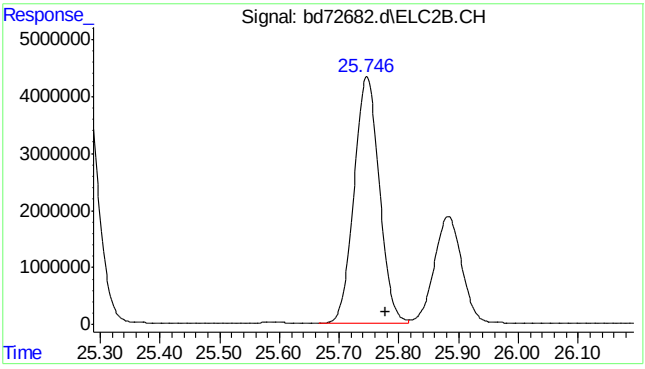
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 127084846
Conc: 262.75 ppb



#33 naphthalene #2

R.T.: 28.749 min
Delta R.T.: -0.001 min
Response: 101943811
Conc: 343.99 ppb m

SGS ACCUTEST MC45897



#34 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 127045219
Conc: 262.81 ppb m

7.5.3

7

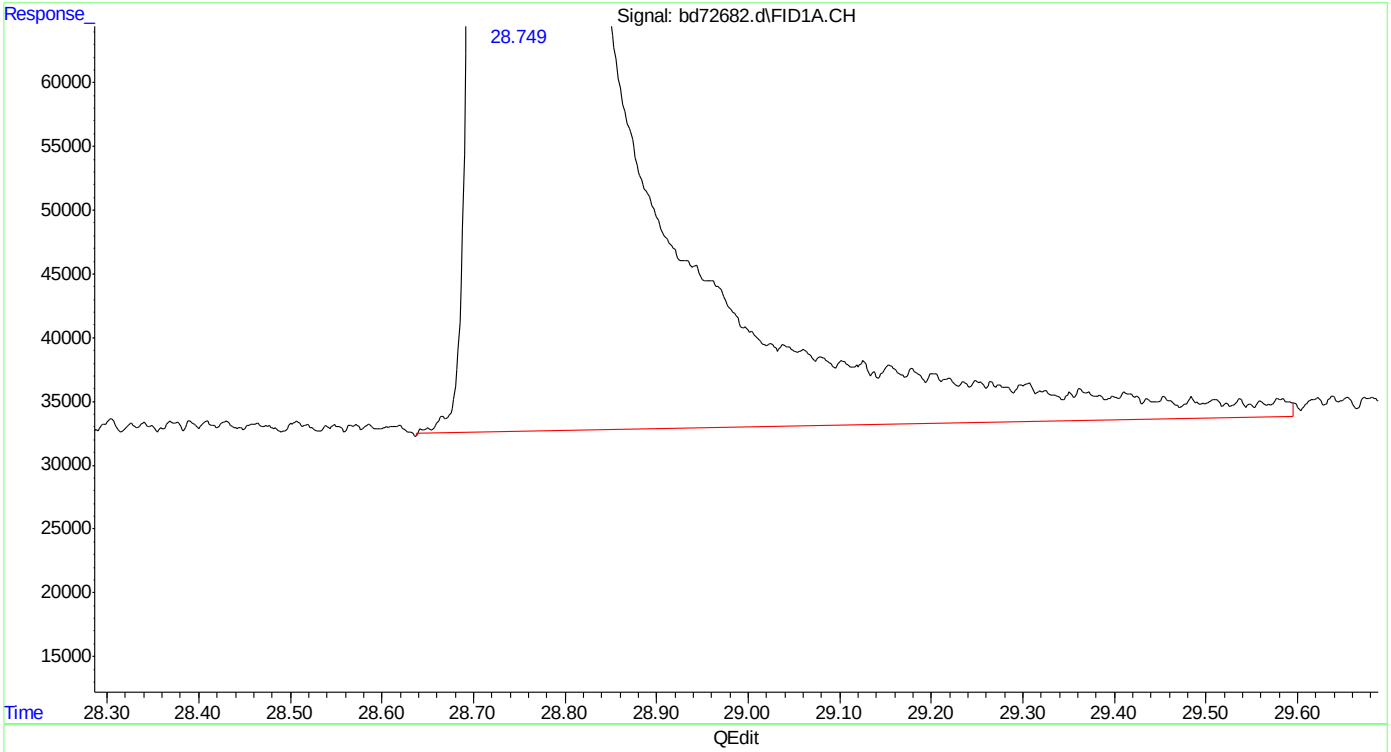
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3752-250
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.750min 311.972 ppb
response 125172255

(+) = Expected Retention Time

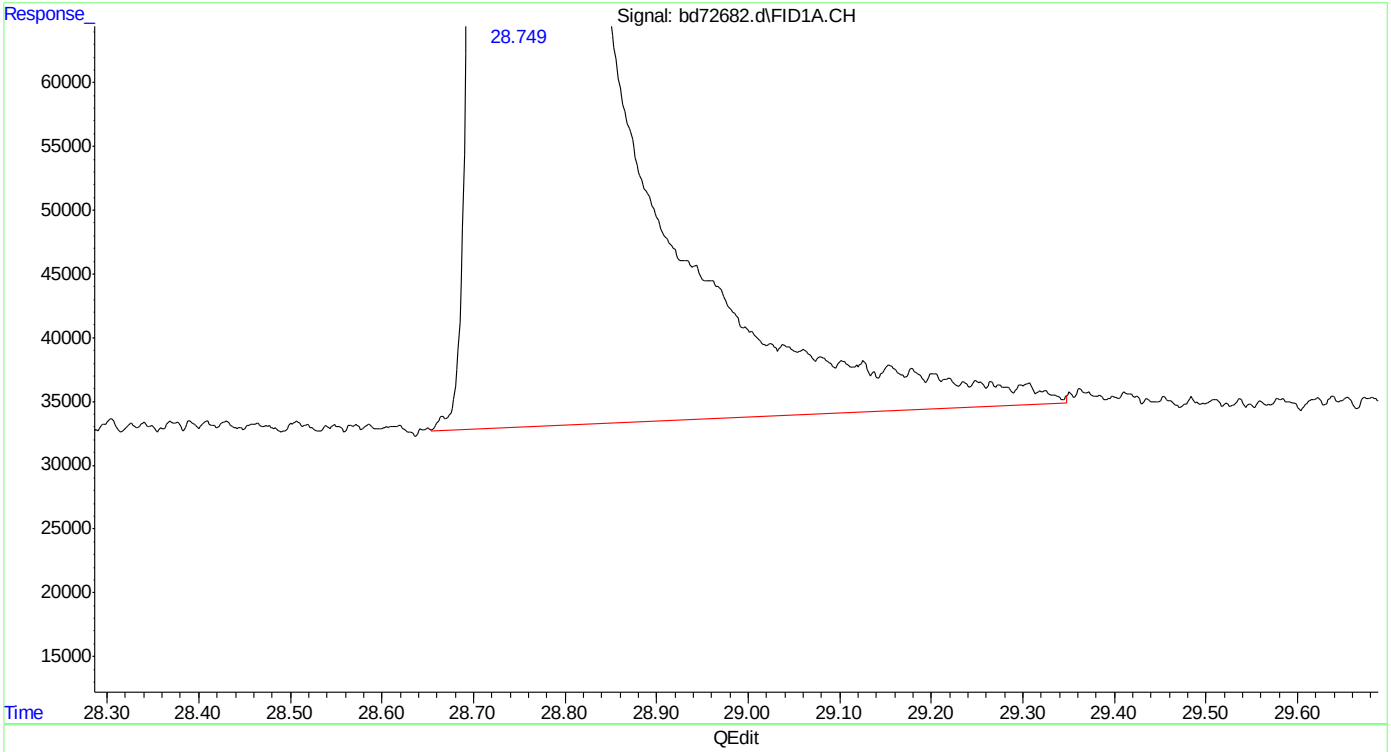
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3752-250
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.749min 310.645 ppb m
response 124639753

(+) = Expected Retention Time

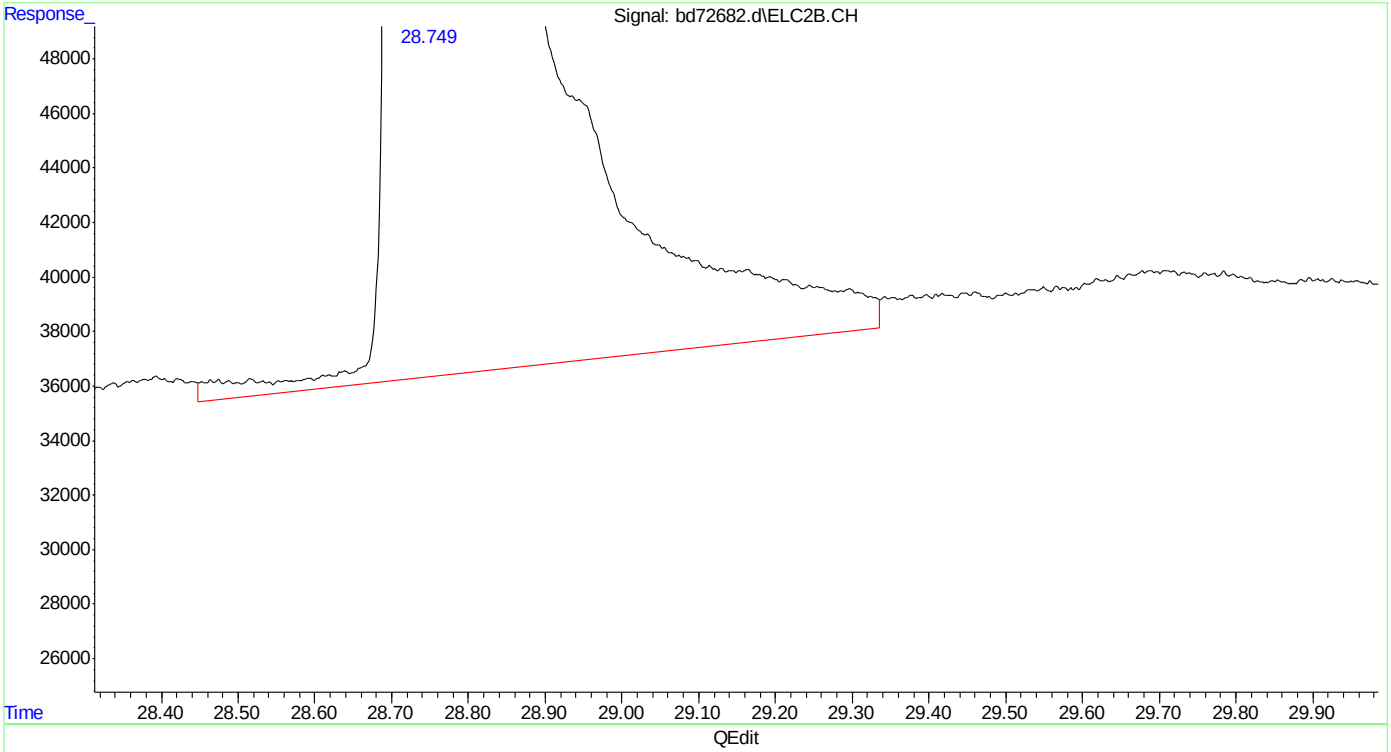
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 08:52:27
Operator  : tonyf
Sample    : ic3752-250
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(33) naphthalene #2

28.749min 345.179 ppb

response 102296947

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:18:44 2016

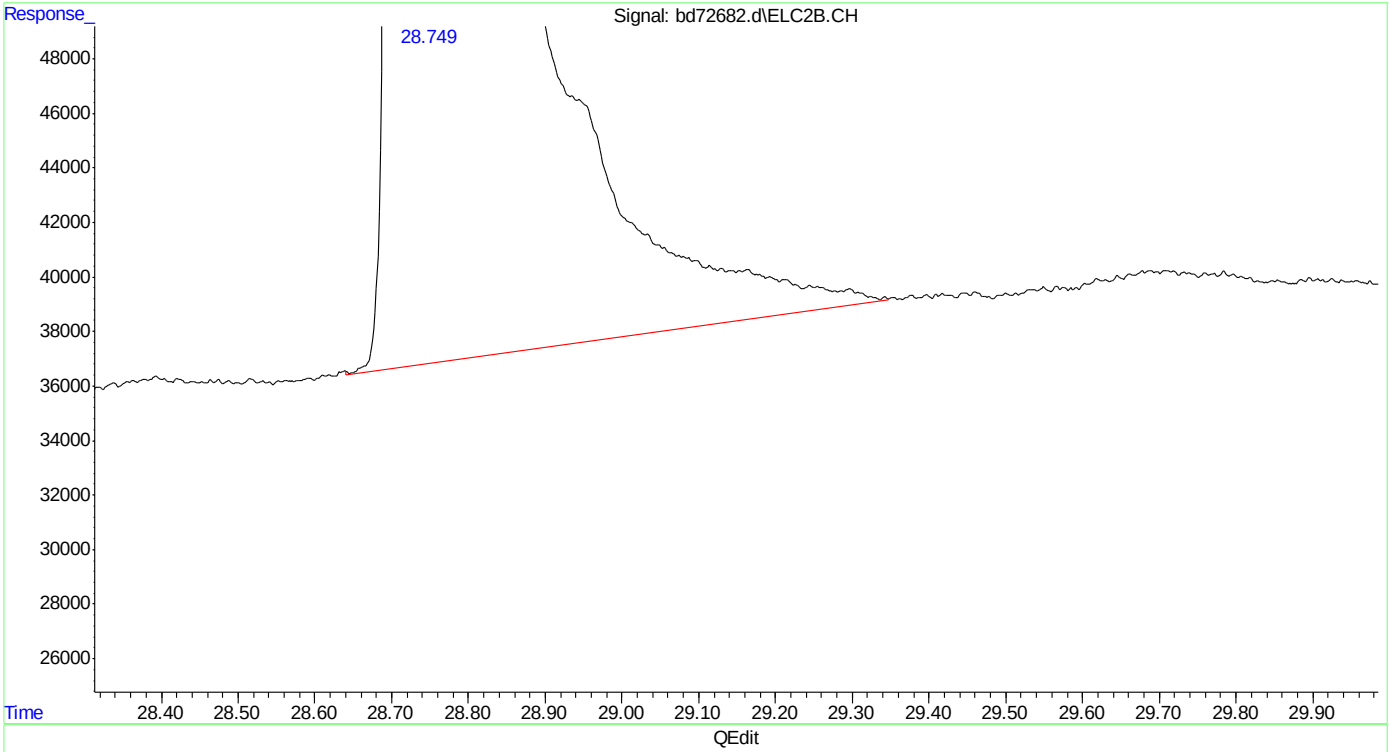
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3752-250
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.749min 343.988 ppb m
response 101943811

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:18:52 2016

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3572-100 (Sig #1); ic3752-100 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:16:55 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.423	70079072	97.467	ppb	
Spiked Amount 50.000		Recovery = 194.93%			
9) s 2,3,4-trifluorotoluene	21.235	54927490	100.409	ppb	
Spiked Amount 50.000		Recovery = 200.82%			
25) s fluorobenzene #2	16.423	32202770	89.804	ppb	
Spiked Amount 50.000		Recovery = 179.61%			
27) s 2,3,4-trifluorotoluen...	21.235	18910642	93.473	ppb	
Spiked Amount 50.000		Recovery = 186.95%			
Target Compounds					
1) h rt5.5-7	7.470	64982591	113.418	ppb	m
2) h rt7/10	9.920	74322538	111.188	ppb	m
3) mtbe	10.681	33800413	118.441	ppb	m
4) h rt10/13	15.200	67623819	93.821	ppb	m
5) benzene	15.931	87774837	114.545	ppb	
8) toluene	20.219	84423859	109.922	ppb	
11) h rt20/25	22.840	74314298	81.227	ppb	m
13) ethylbenzene	23.170	81550653	103.259	ppb	
14) m,p-xylene	23.306	152799260	183.855	ppb	
15) o-xylene	24.027	82145326	96.818	ppb	
16) h decane	24.930	68348944	62.536	ppb	
17) t 1,3,5-trimethylbenzene	25.269	84145233	88.598	ppb	
18) 1,2,4-trimethylbenzene	25.746	81329260	91.247	ppb	
19) h butylcyclohexane	25.908	73745152	68.769	ppb	
20) naphthalene	28.748	53350849	142.355	ppb	m
23) mtbe #2	10.682	16670409	107.344	ppb	m
24) benzene #2	15.930	50557437	106.886	ppb	
26) toluene #2	20.219	47109892	106.757	ppb	
28) ethylbenzene #2	23.170	42468306	106.107	ppb	
29) m,p-xylene #2	23.305	102263487	209.439	ppb	
30) o-xylene #2	24.027	43129270	100.483	ppb	
31) t 1,3,5-trimethylbenzen...	25.268	65671528	97.793	ppb	
32) 1,2,4-trimethylbenzen...	25.746	49399372	102.572	ppb	
33) naphthalene #2	28.748	41651706	152.947	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	49381850	102.596	ppb	m

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

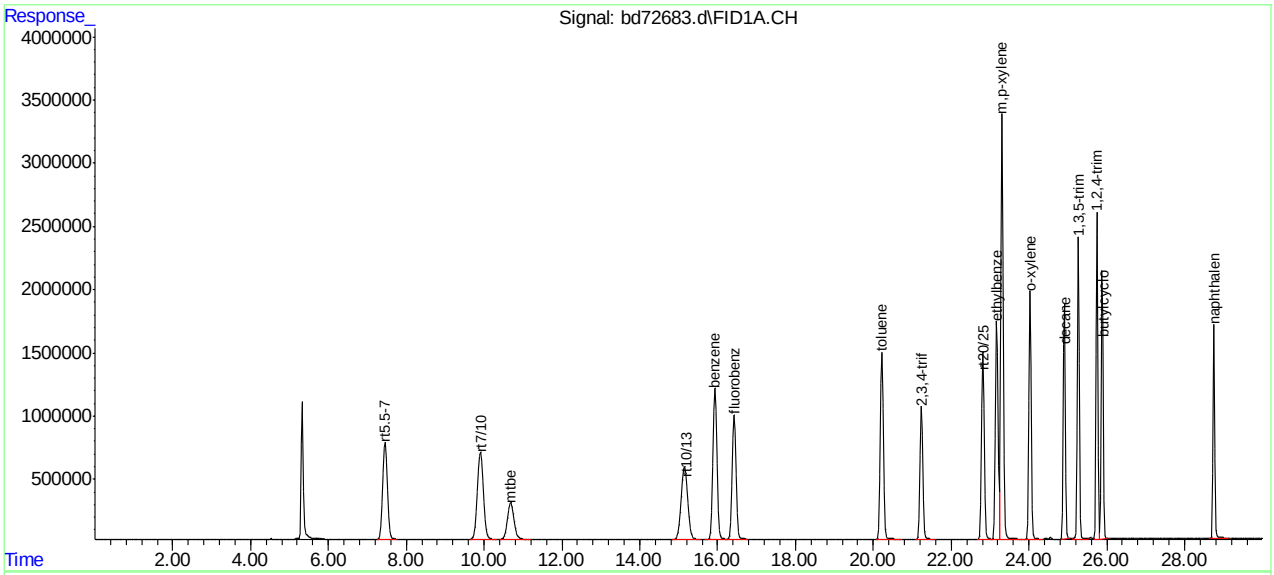
SGS ACCUTEST MC45897

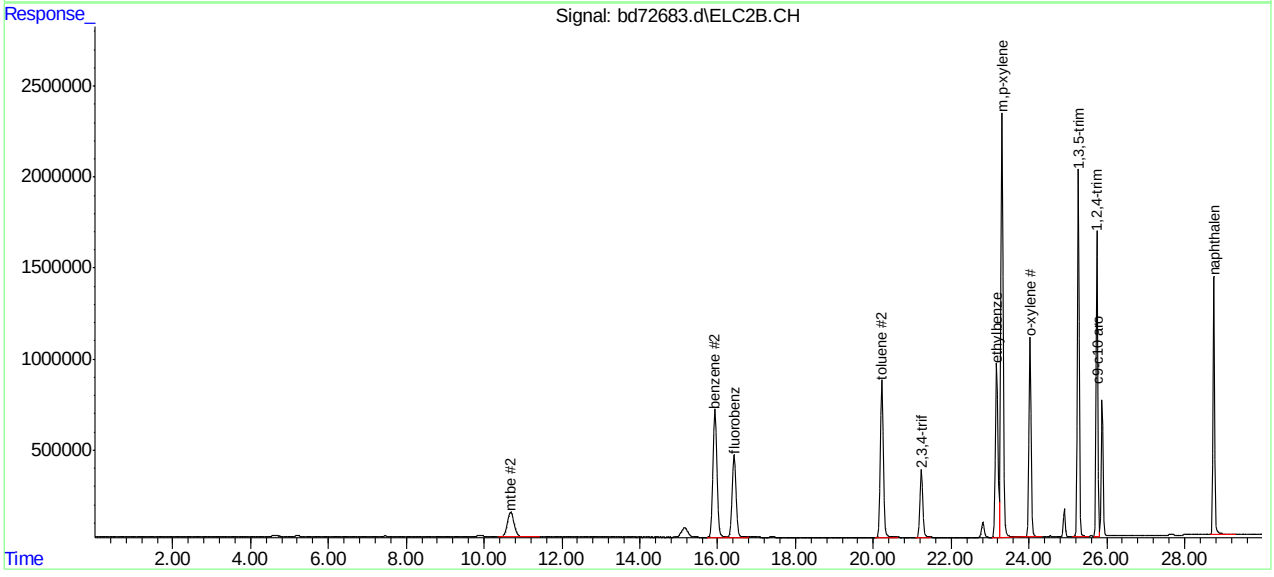
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3572-100 (Sig #1); ic3752-100 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

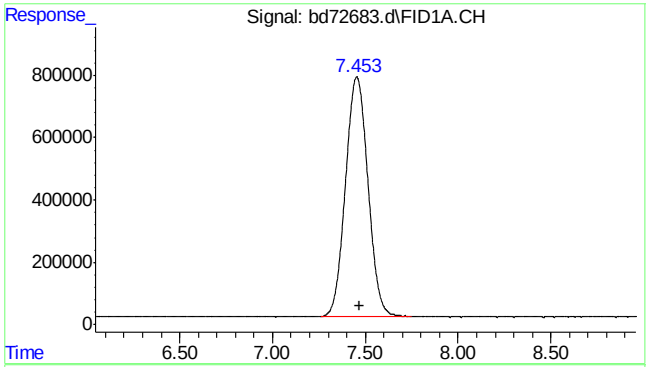
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:16:55 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



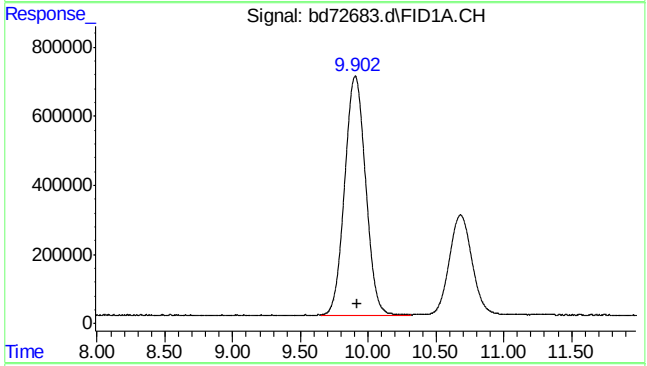


SGS ACCUTEST MC45897



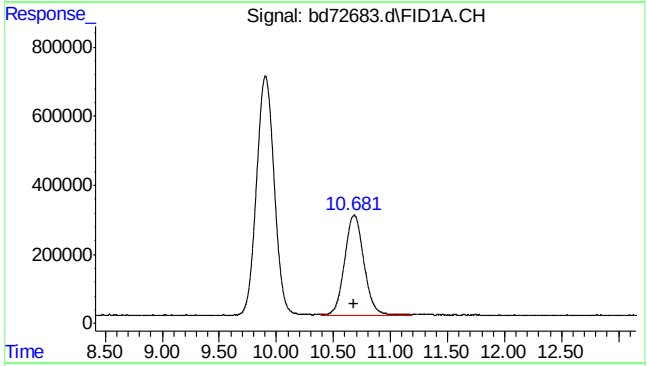
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 64982591
Conc: 113.42 ppb m



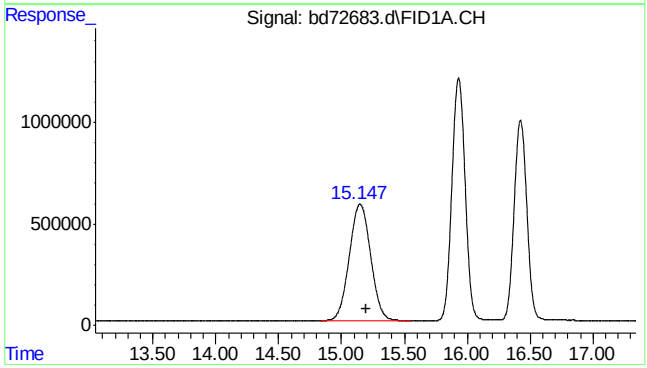
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 74322538
Conc: 111.19 ppb m



#3 mtbe

R.T.: 10.681 min
Delta R.T.: -0.002 min
Response: 33800413
Conc: 118.44 ppb m



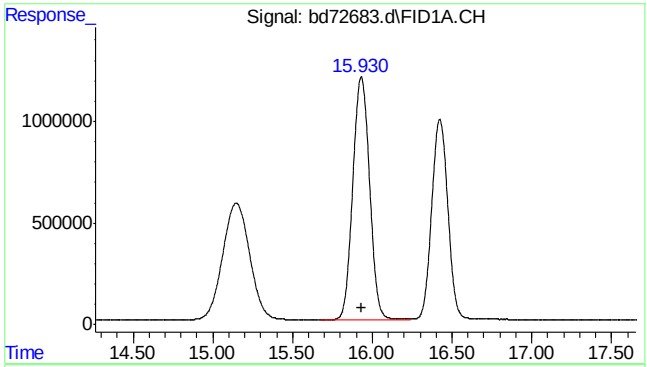
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 67623819
Conc: 93.82 ppb m

7.5.4

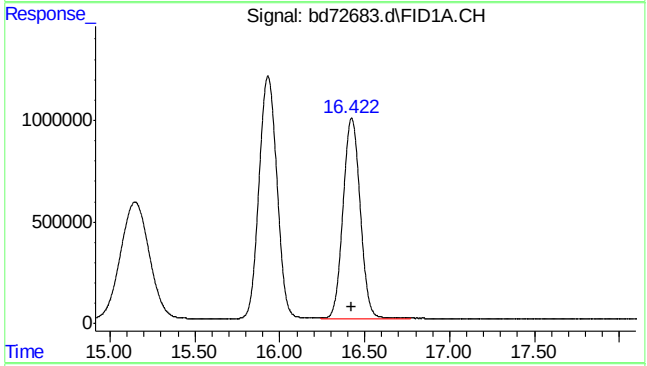
7

SGS ACCUTEST MC45897



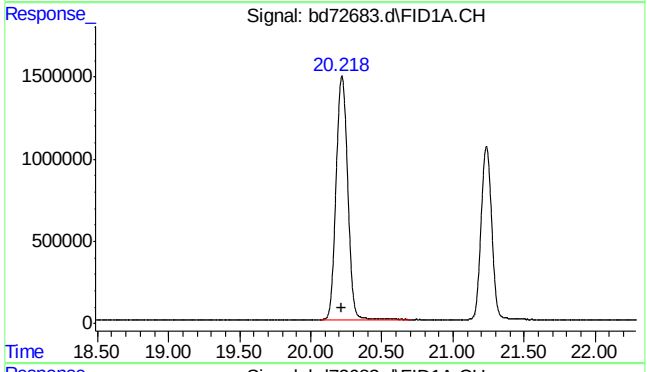
#5 benzene

R.T.: 15.931 min
Delta R.T.: -0.002 min
Response: 87774837
Conc: 114.55 ppb



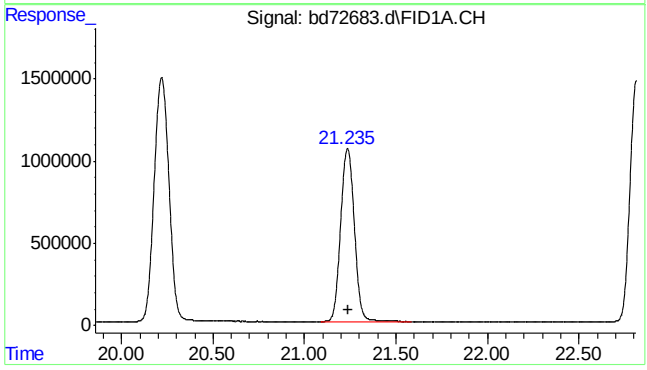
#6 fluorobenzene

R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 70079072
Conc: 97.47 ppb



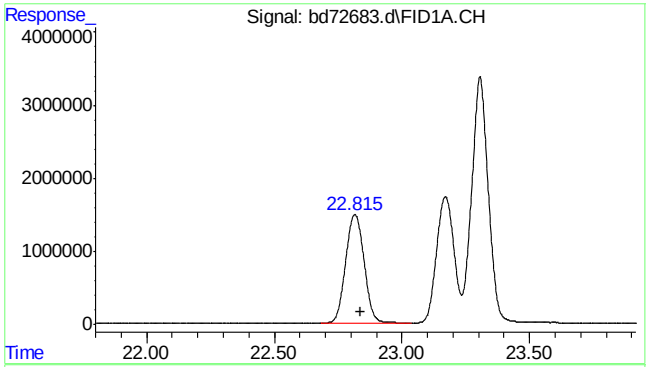
#8 toluene

R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 84423859
Conc: 109.92 ppb



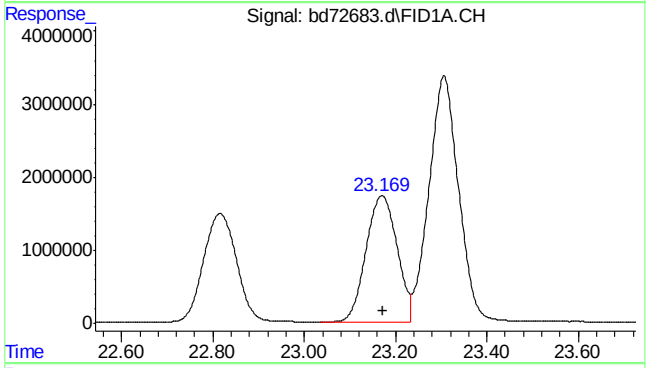
#9 2,3,4-trifluorotoluene

R.T.: 21.235 min
Delta R.T.: -0.002 min
Response: 54927490
Conc: 100.41 ppb



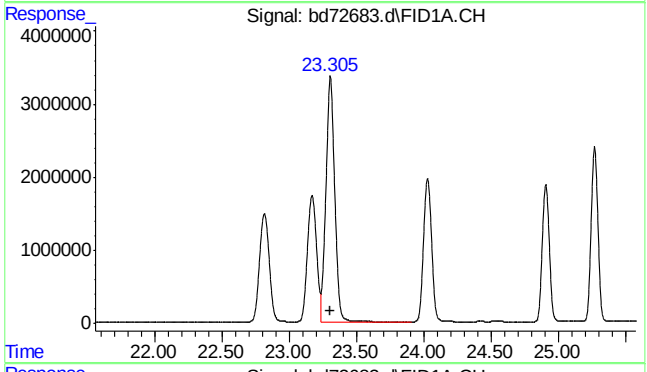
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 74314298
Conc: 81.23 ppb m



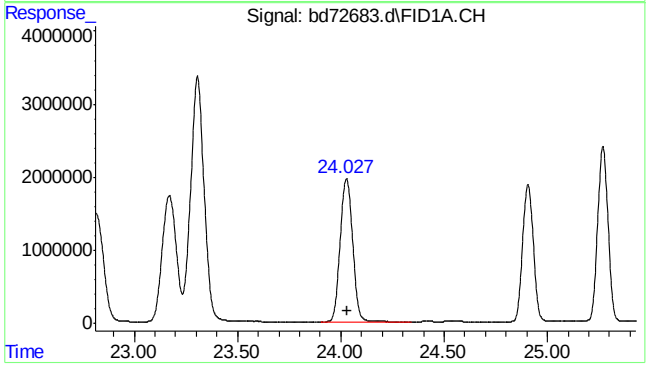
#13 ethylbenzene

R.T.: 23.170 min
Delta R.T.: -0.002 min
Response: 81550653
Conc: 103.26 ppb



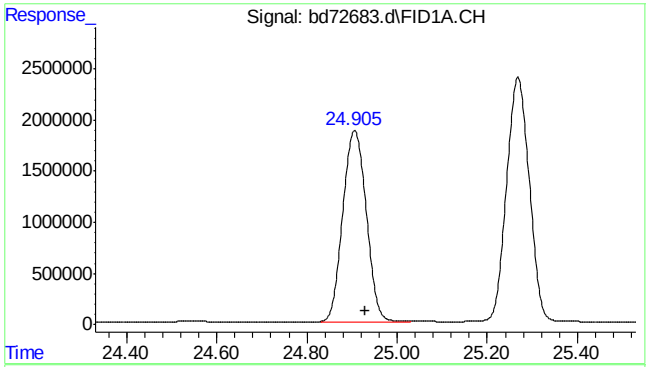
#14 m,p-xylene

R.T.: 23.306 min
Delta R.T.: -0.001 min
Response: 152799260
Conc: 183.86 ppb



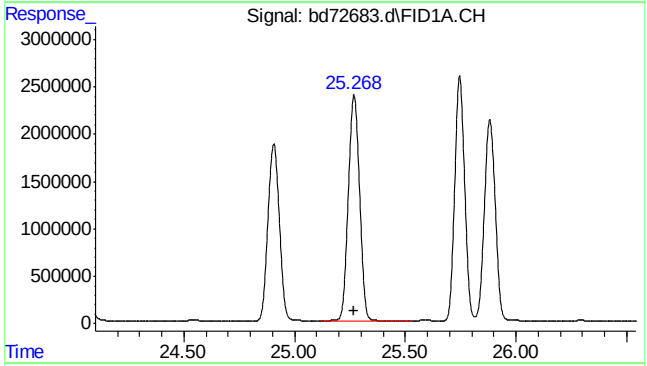
#15 o-xylene

R.T.: 24.027 min
Delta R.T.: -0.002 min
Response: 82145326
Conc: 96.82 ppb



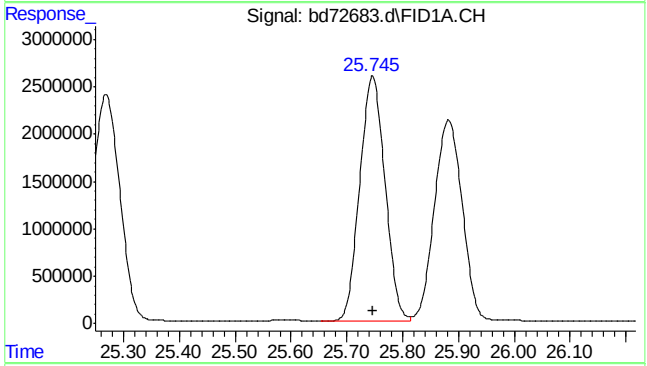
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 68348944
Conc: 62.54 ppb



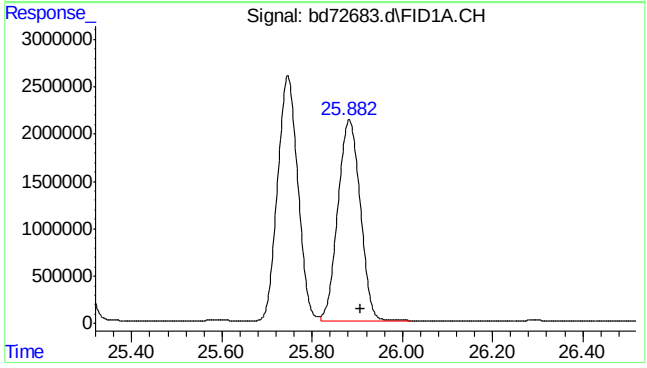
#17 1,3,5-trimethylbenzene

R.T.: 25.269 min
Delta R.T.: 0.000 min
Response: 84145233
Conc: 88.60 ppb



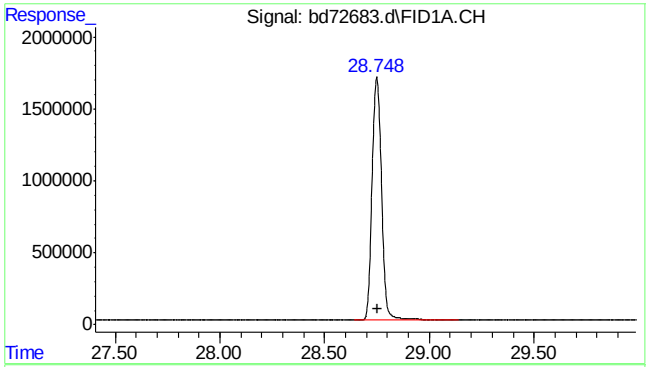
#18 1,2,4-trimethylbenzene

R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 81329260
Conc: 91.25 ppb



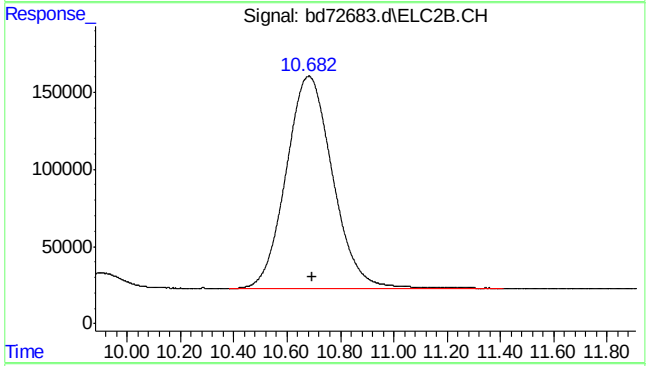
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 73745152
Conc: 68.77 ppb



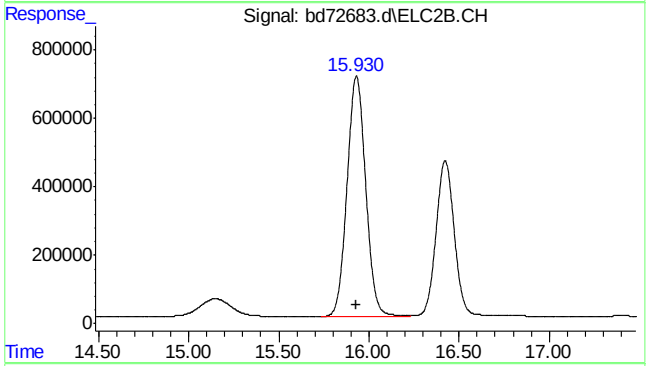
#20 naphthalene

R.T.: 28.748 min
Delta R.T.: -0.003 min
Response: 53350849
Conc: 142.35 ppb m



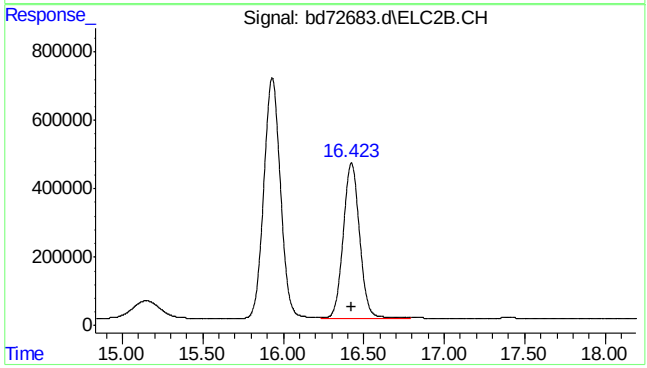
#23 mtbe #2

R.T.: 10.682 min
Delta R.T.: -0.014 min
Response: 16670409
Conc: 107.34 ppb m



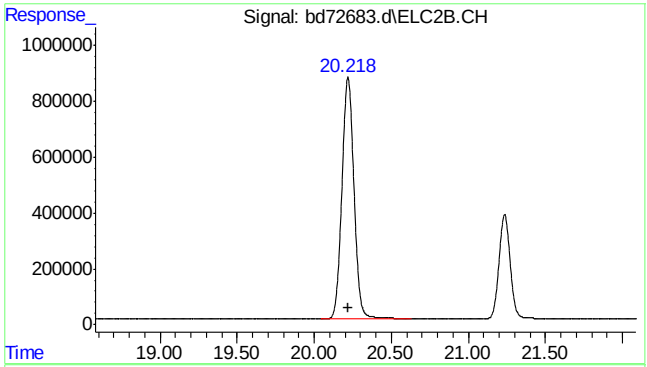
#24 benzene #2

R.T.: 15.930 min
Delta R.T.: -0.002 min
Response: 50557437
Conc: 106.89 ppb



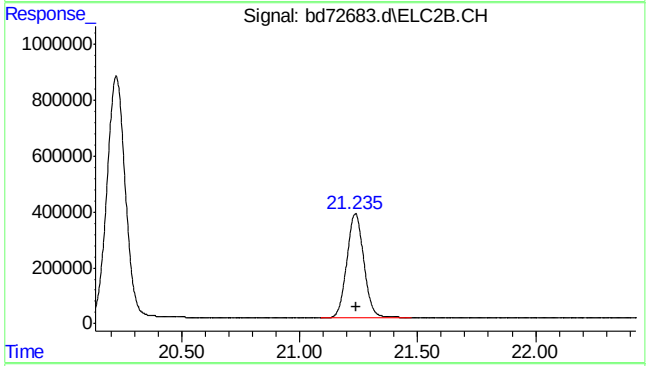
#25 fluorobenzene #2

R.T.: 16.423 min
Delta R.T.: -0.001 min
Response: 32202770
Conc: 89.80 ppb



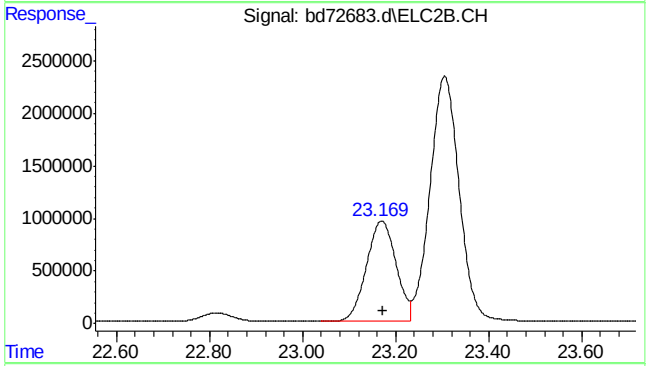
#26 toluene #2

R.T.: 20.219 min
Delta R.T.: -0.002 min
Response: 47109892
Conc: 106.76 ppb



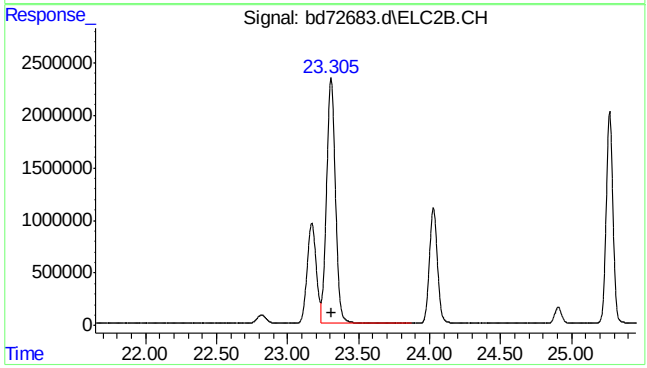
#27 2,3,4-trifluorotoluene #2

R.T.: 21.235 min
Delta R.T.: -0.002 min
Response: 18910642
Conc: 93.47 ppb



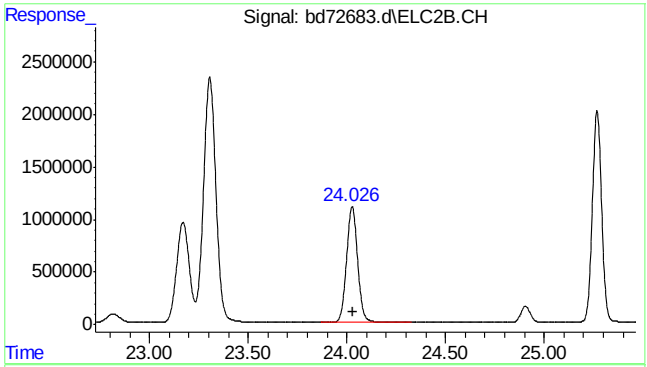
#28 ethylbenzene #2

R.T.: 23.170 min
Delta R.T.: -0.002 min
Response: 42468306
Conc: 106.11 ppb



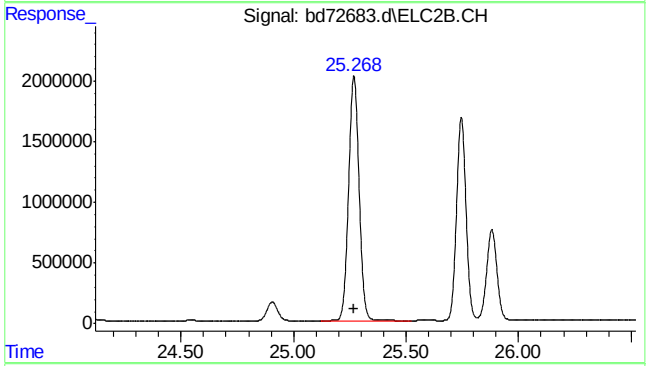
#29 m,p-xylene #2

R.T.: 23.305 min
Delta R.T.: -0.002 min
Response: 102263487
Conc: 209.44 ppb



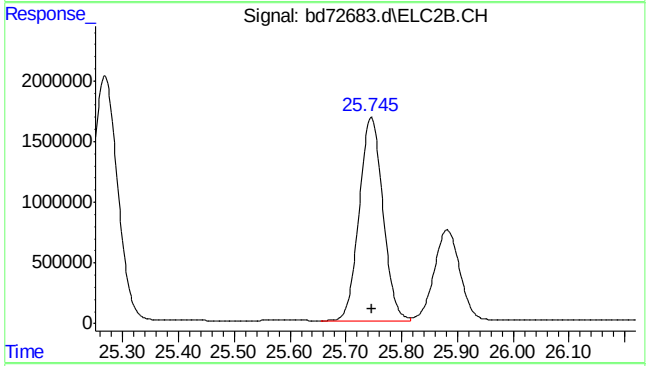
#30 o-xylene #2

R.T.: 24.027 min
Delta R.T.: -0.001 min
Response: 43129270
Conc: 100.48 ppb



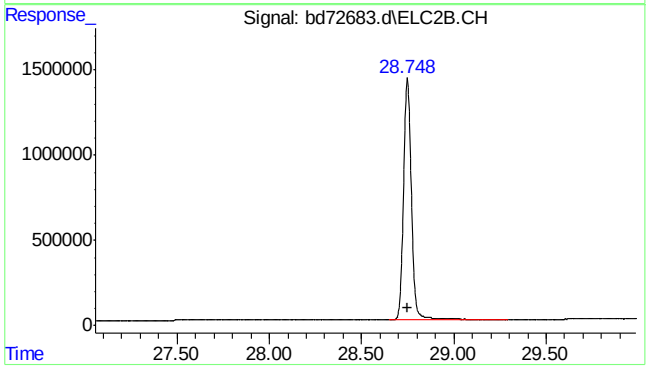
#31 1,3,5-trimethylbenzene #2

R.T.: 25.268 min
Delta R.T.: 0.000 min
Response: 65671528
Conc: 97.79 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 49399372
Conc: 102.57 ppb



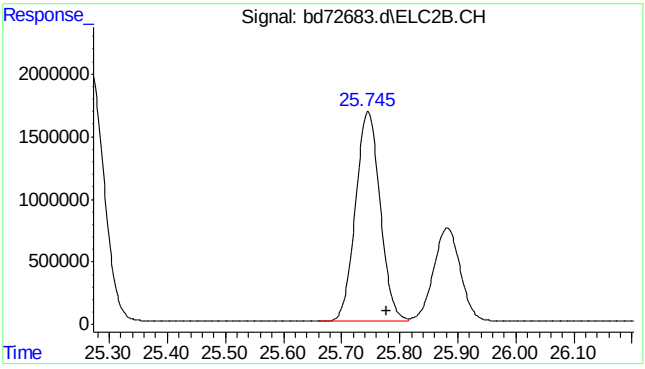
#33 naphthalene #2

R.T.: 28.748 min
Delta R.T.: -0.002 min
Response: 41651706
Conc: 152.95 ppb m

7.5.4

7

SGS ACCUTEST MC45897



#34 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 49381850
Conc: 102.60 ppb m

7.5.4

7

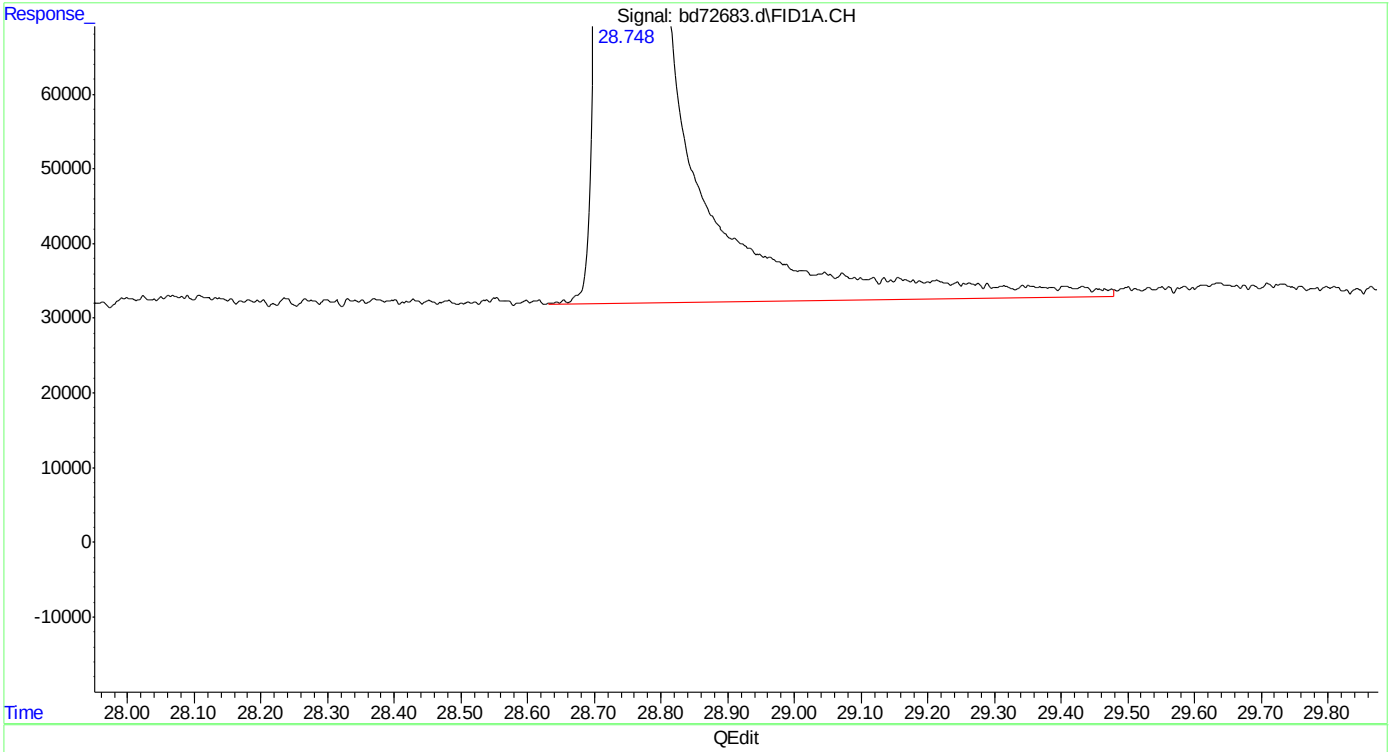
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.749min 143.778 ppb
response 53884167

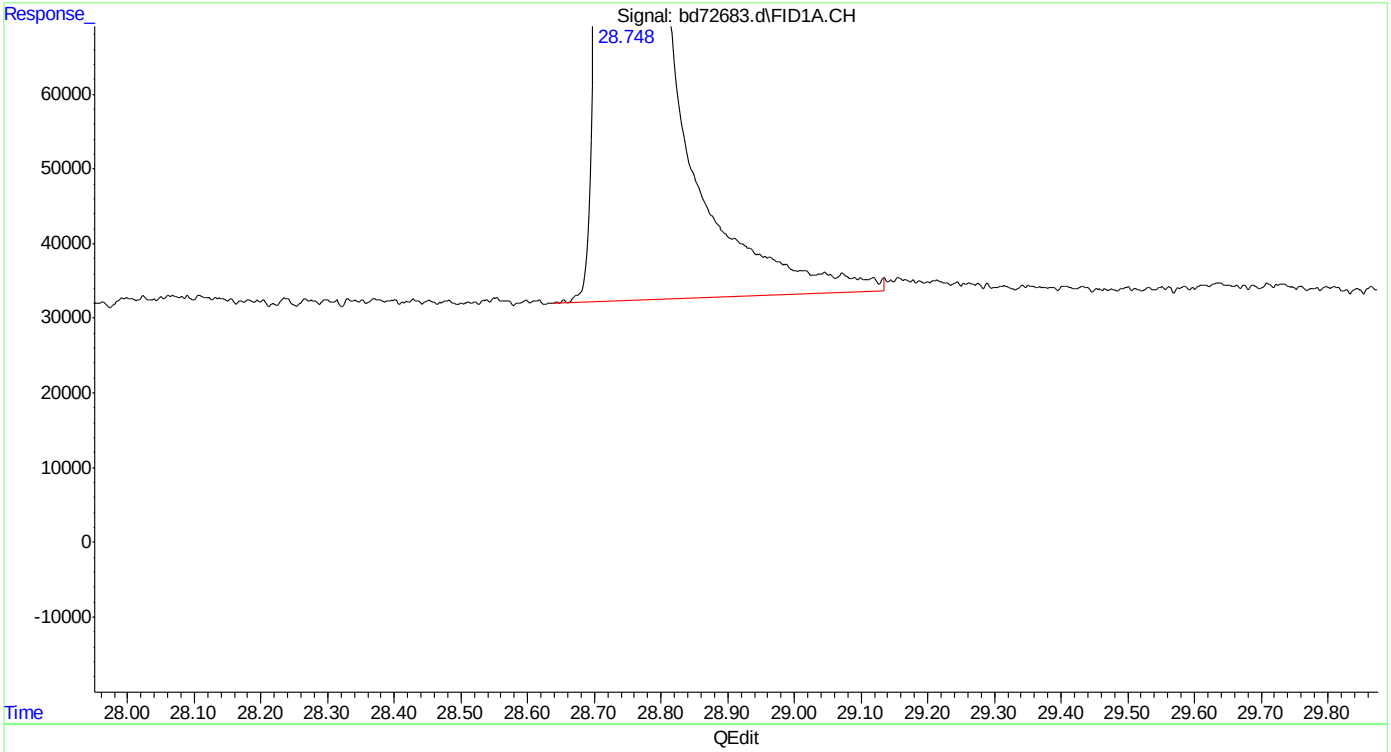
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:11 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.748min 142.355 ppb m
response 53350849

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:20 2016

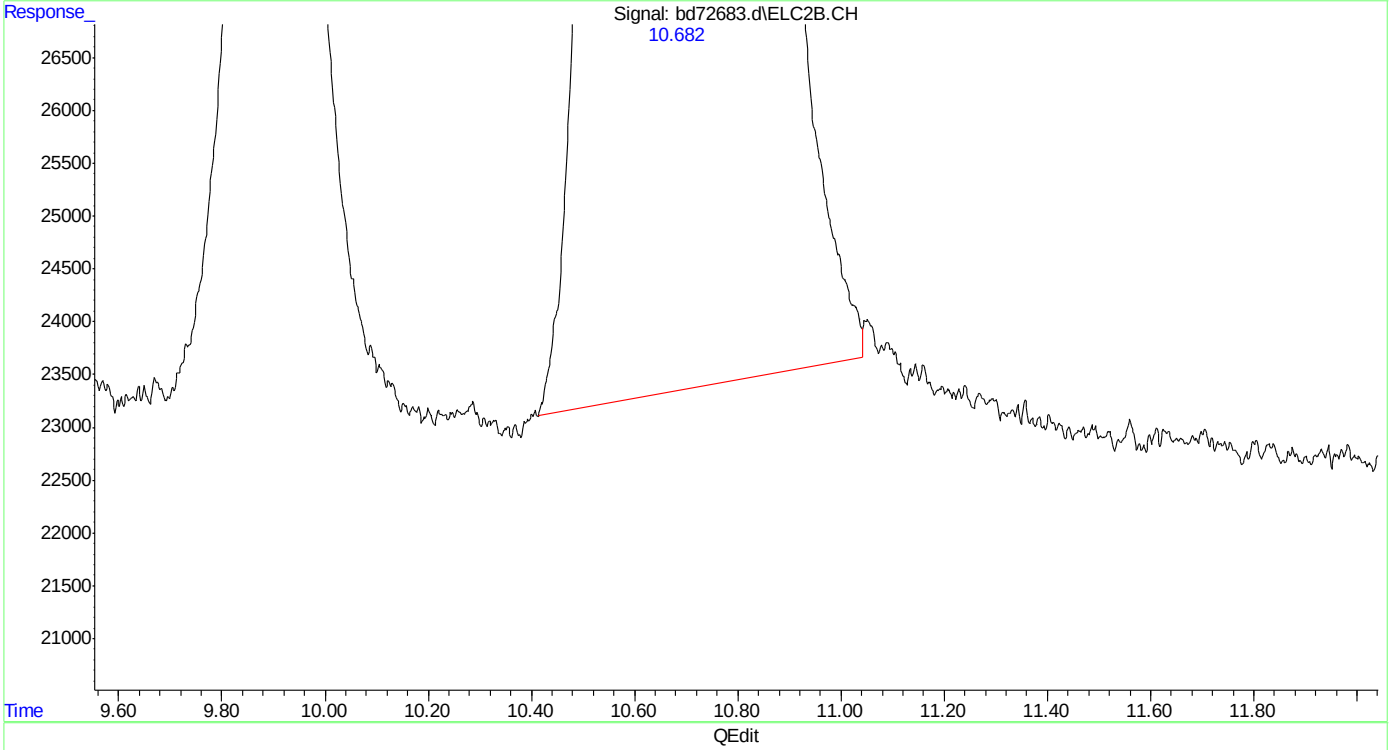
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.683min 105.694 ppb
response 16414171

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:26 2016

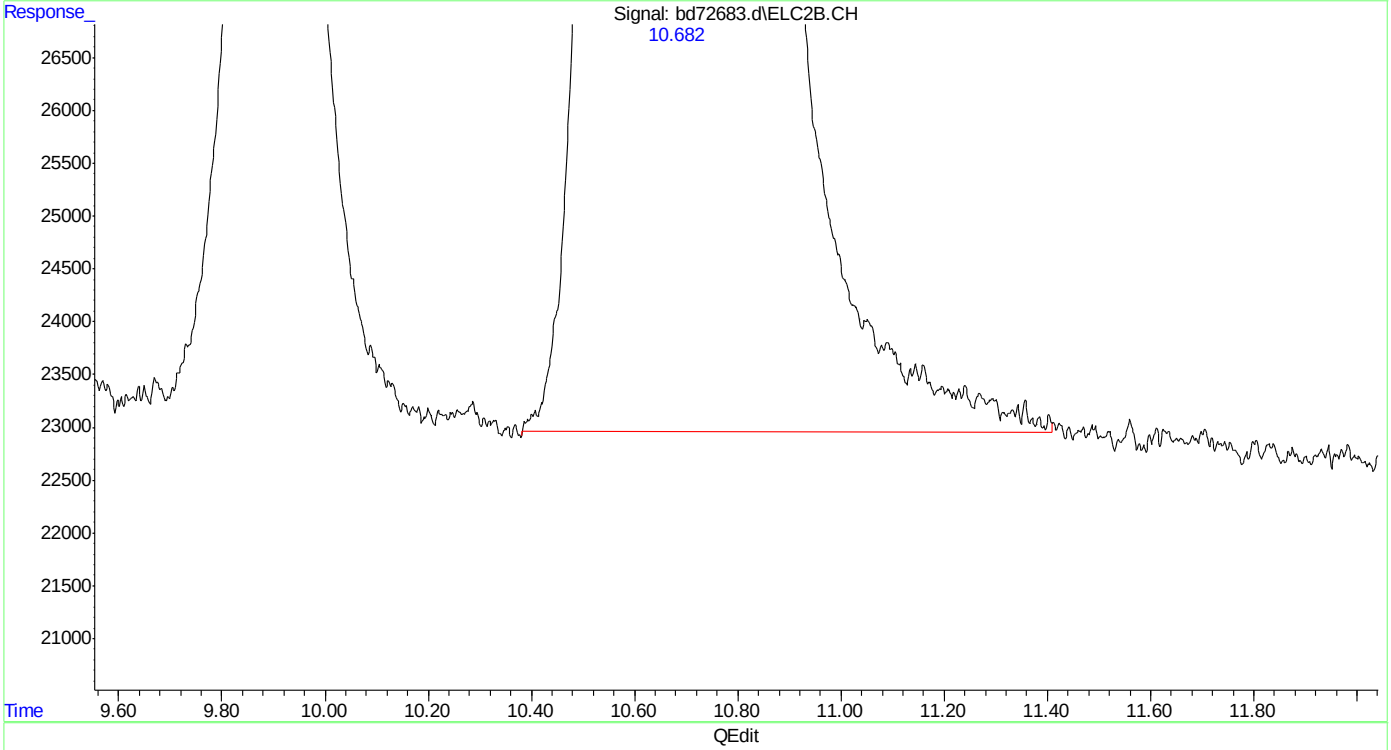
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.682min 107.344 ppb m
response 16670409

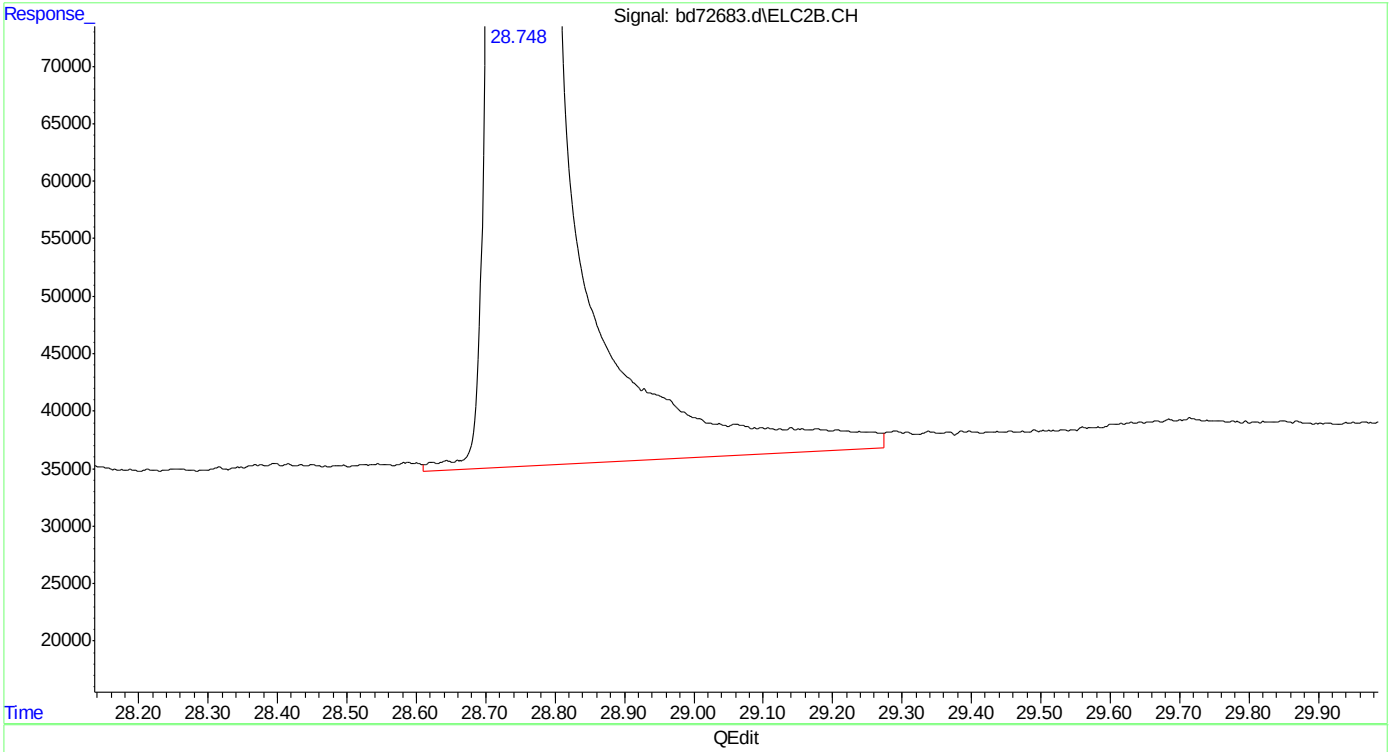
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:30 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.748min 154.186 ppb
response 41988930

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:43 2016

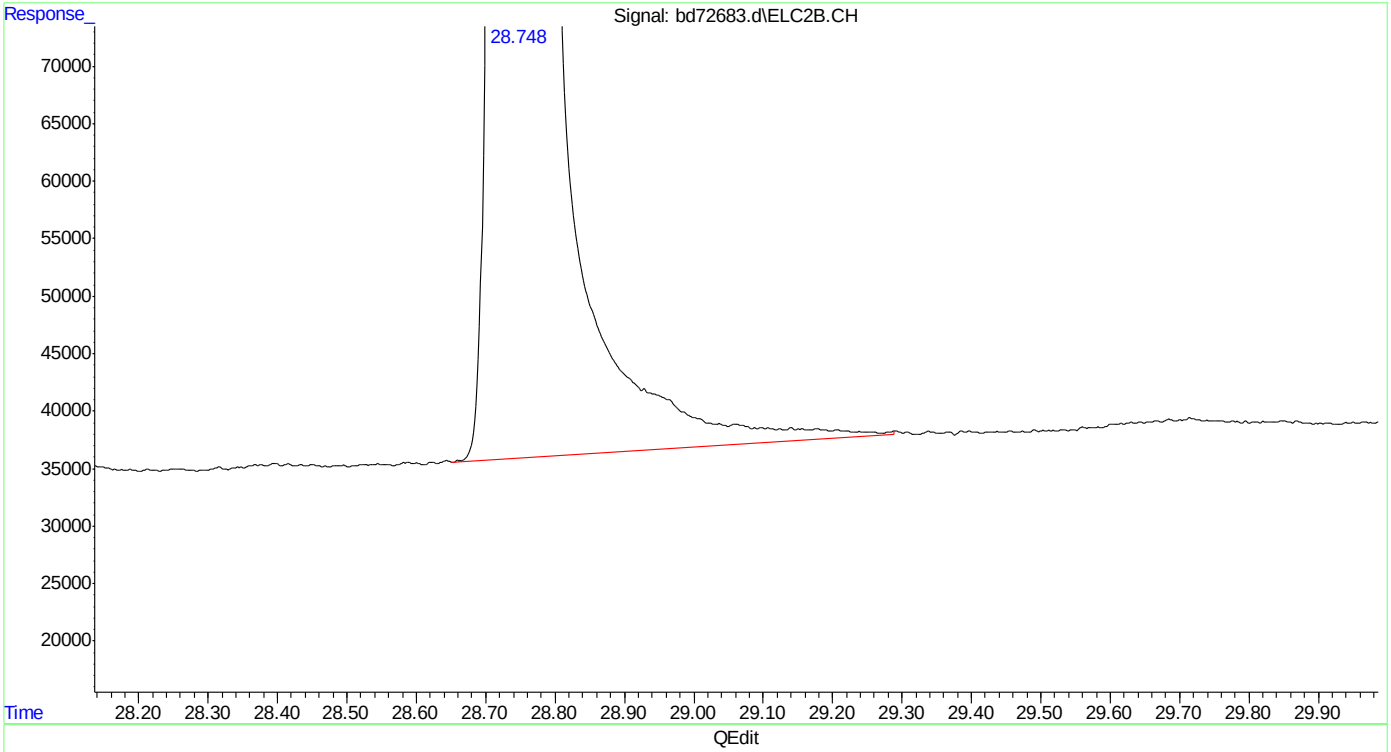
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.748min 152.947 ppb m
response 41651706

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:47 2016

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3572-50 (Sig #1); icc3752-50 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:44:32 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
6) s fluorobenzene	16.425	34075445	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
9) s 2,3,4-trifluorotoluene	21.237	26970091	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
25) s fluorobenzene #2	16.425	15383703	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
27) s 2,3,4-trifluorotoluen...	21.237	9070743	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
Target Compounds					
1) h rt5.5-7	7.470	30143416	49.971	ppb	m
2) h rt7/10	9.920	34807733	50.015	ppb	m
3) mtbe	10.687	15460558	50.361	ppb	
4) h rt10/13	15.200	33383300	50.012	ppb	m
5) benzene	15.932	42982873	50.000	ppb	
8) toluene	20.221	42756685	50.000	ppb	
11) h rt20/25	22.840	38654222	50.046	ppb	m
13) ethylbenzene	23.172	42355999	50.000	ppb	
14) m,p-xylene	23.307	80812232	100.000	ppb	
15) o-xylene	24.029	43434654	50.000	ppb	
16) h decane	24.930	37965661	50.001	ppb	m
17) t 1,3,5-trimethylbenzene	25.270	45635368	50.000	ppb	
18) 1,2,4-trimethylbenzene	25.747	44319474	50.000	ppb	
19) h butylcyclohexane	25.908	41267880	49.988	ppb	m
20) naphthalene	28.750	27290467	49.961	ppb	m
23) mtbe #2	10.688	7963229	50.116	ppb	m
24) benzene #2	15.931	24111272	50.000	ppb	
26) toluene #2	20.221	22561776	50.000	ppb	
28) ethylbenzene #2	23.171	20325119	50.000	ppb	
29) m,p-xylene #2	23.307	49291829	100.000	ppb	
30) o-xylene #2	24.028	20846761	50.000	ppb	
31) t 1,3,5-trimethylbenzen...	25.269	31712590	50.000	ppb	
32) 1,2,4-trimethylbenzen...	25.746	23925194	50.000	ppb	
33) naphthalene #2	28.749	19084412	50.008	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	23927237	49.996	ppb	m

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

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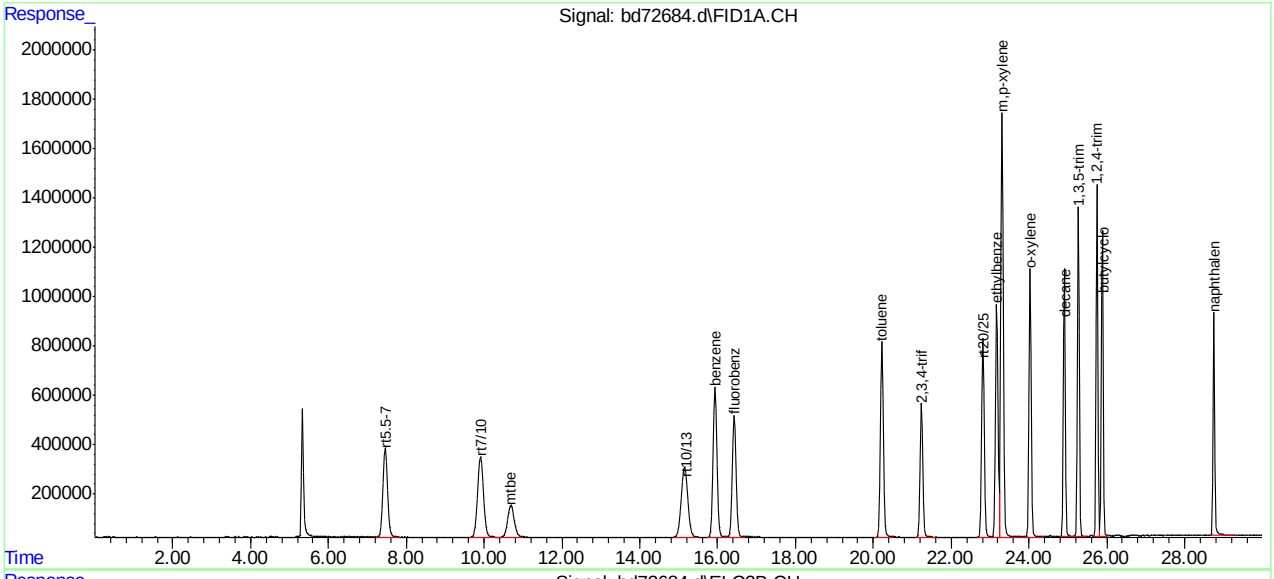
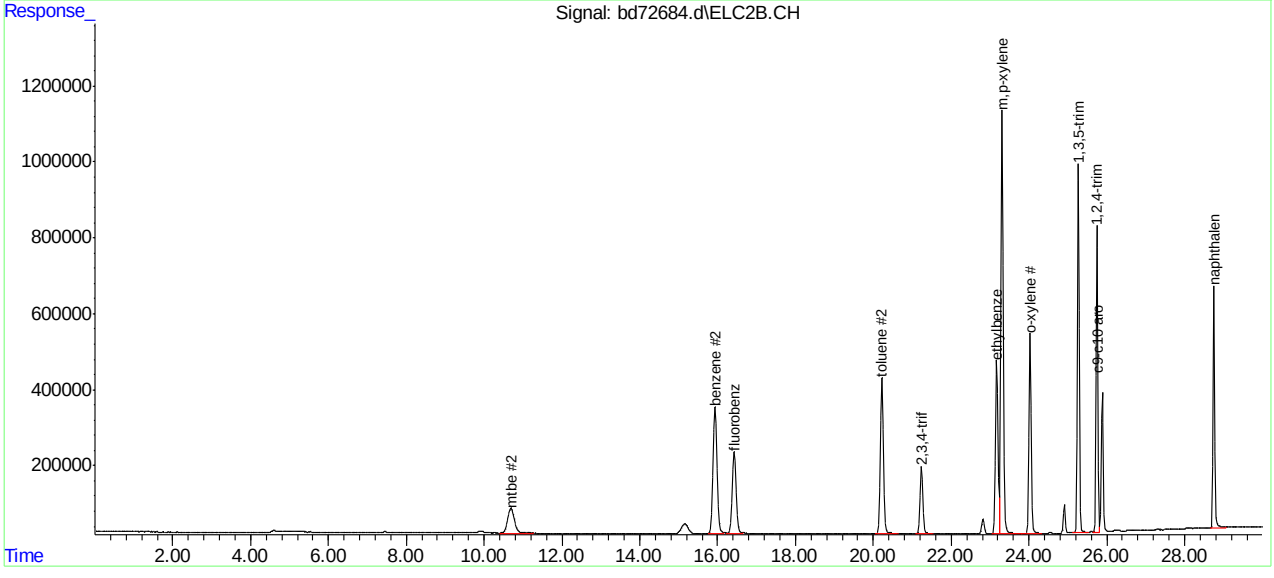
Quantitation Report (QT Reviewed)

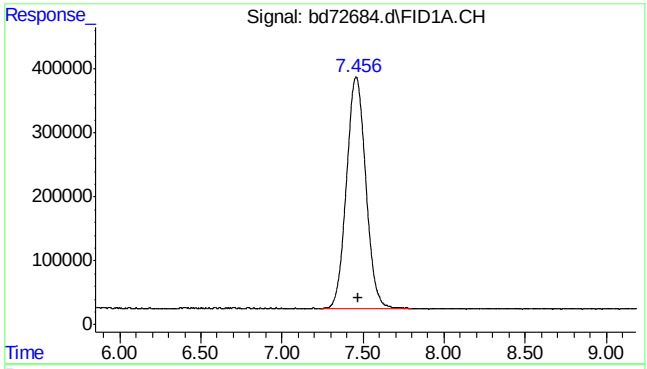
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3572-50 (Sig #1); icc3752-50 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:44:32 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

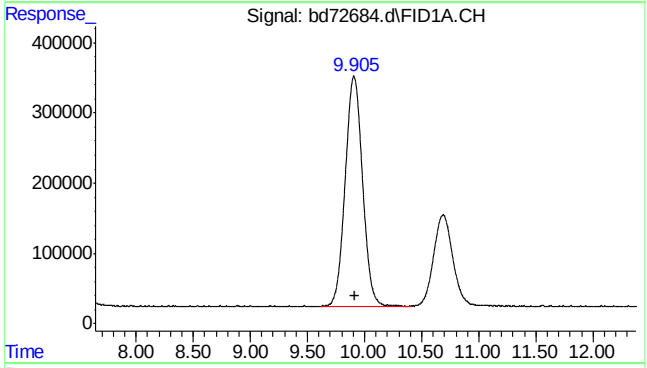






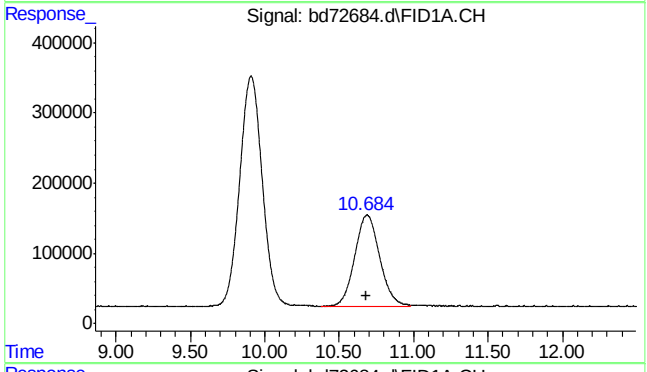
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 30143416
Conc: 49.97 ppb m



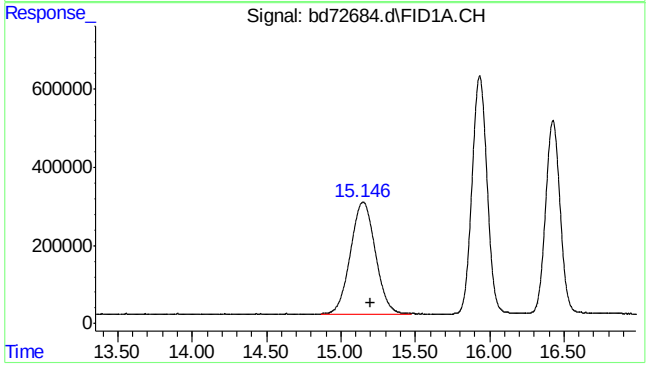
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 34807733
Conc: 50.01 ppb m



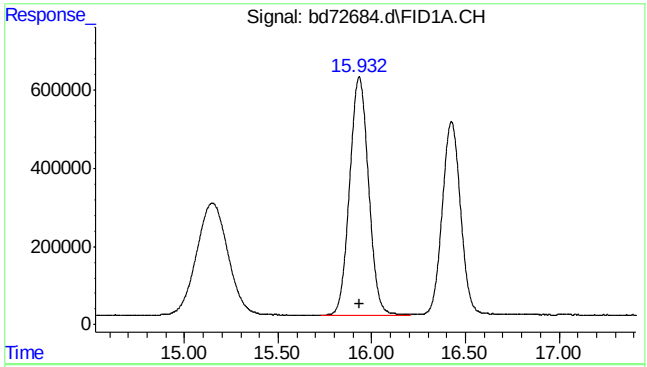
#3 mtbe

R.T.: 10.687 min
Delta R.T.: 0.003 min
Response: 15460558
Conc: 50.36 ppb



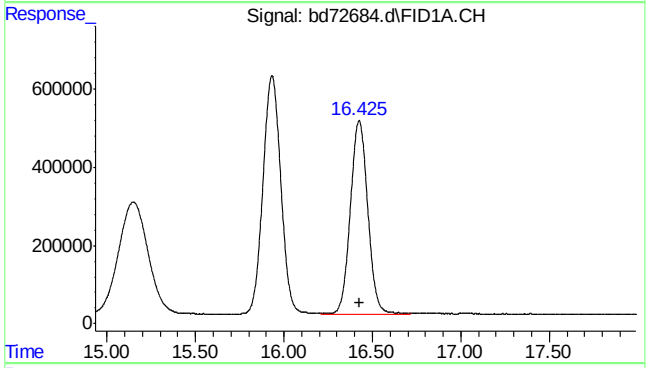
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 33383300
Conc: 50.01 ppb m



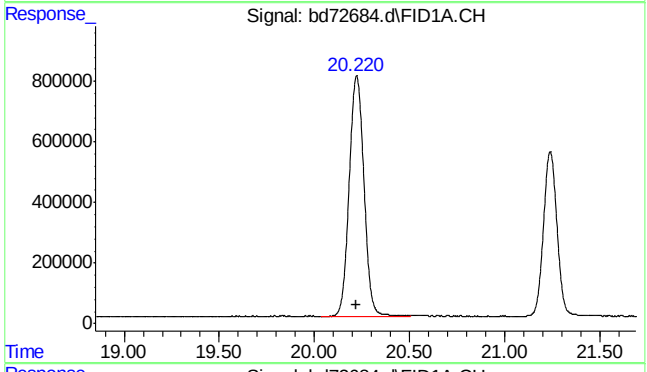
#5 benzene

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 42982873
Conc: 50.00 ppb



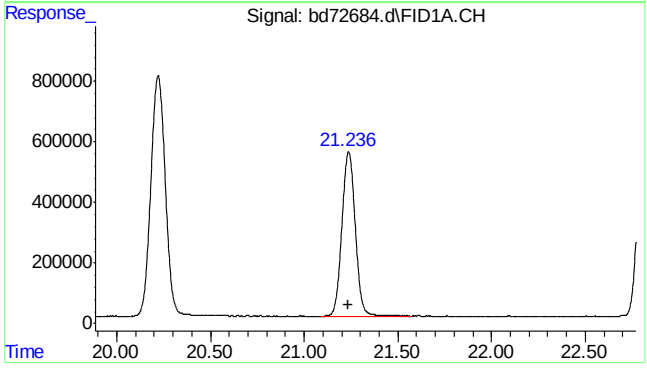
#6 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 34075445
Conc: 50.00 ppb



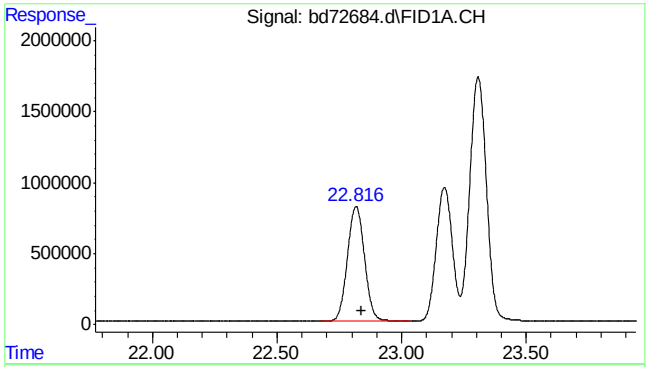
#8 toluene

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 42756685
Conc: 50.00 ppb



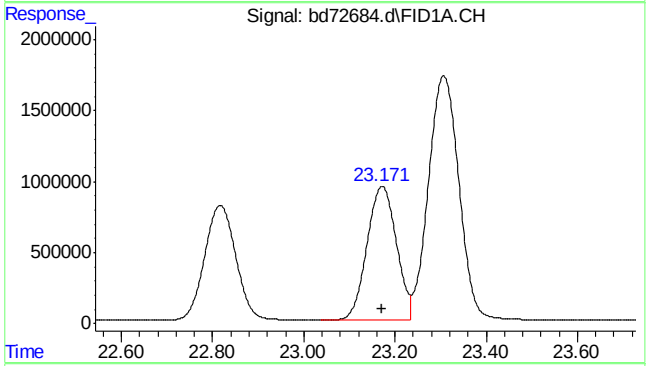
#9 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 26970091
Conc: 50.00 ppb



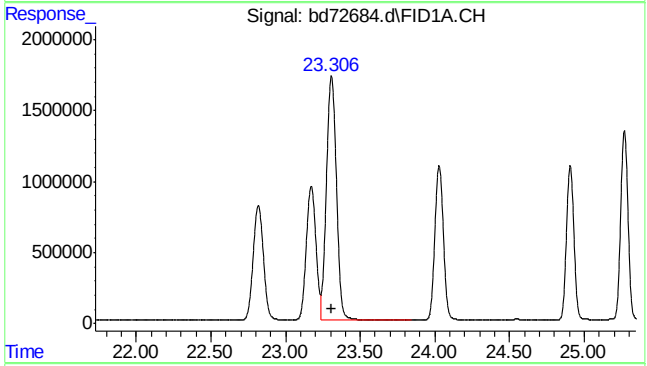
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 38654222
Conc: 50.05 ppb m



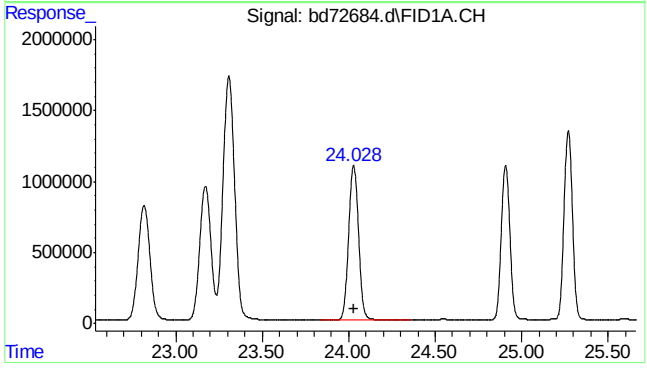
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 42355999
Conc: 50.00 ppb



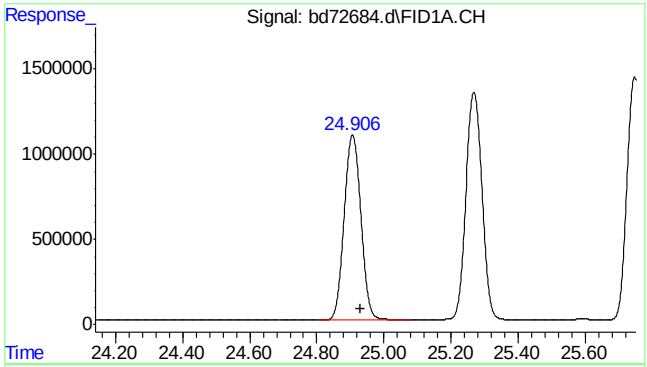
#14 m,p-xylene

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 80812232
Conc: 100.00 ppb



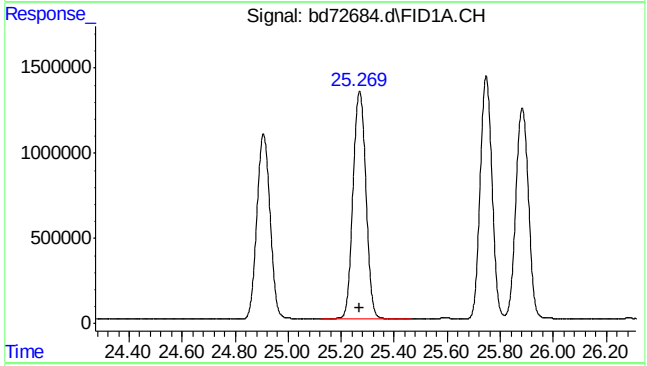
#15 o-xylene

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 43434654
Conc: 50.00 ppb



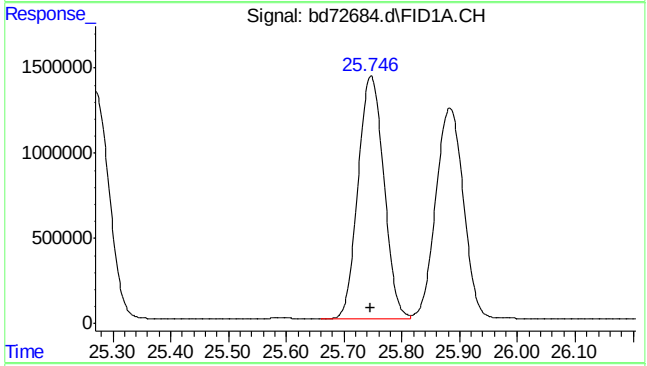
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 37965661
Conc: 50.00 ppb m



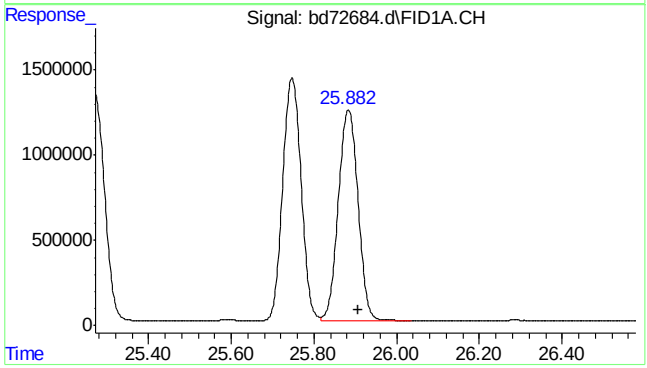
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 45635368
Conc: 50.00 ppb



#18 1,2,4-trimethylbenzene

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 44319474
Conc: 50.00 ppb



#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 41267880
Conc: 49.99 ppb m

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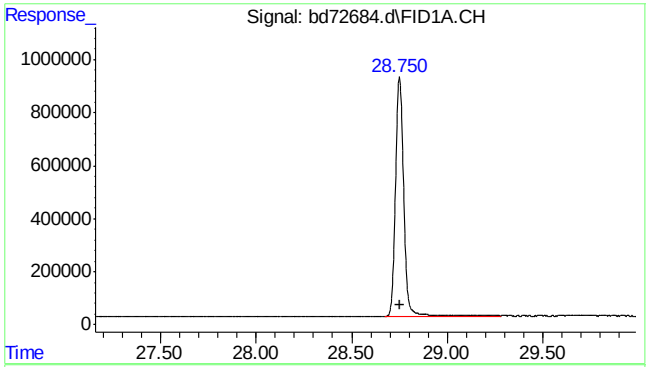
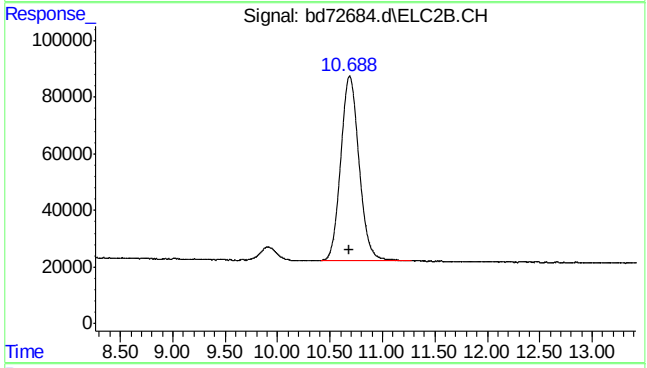


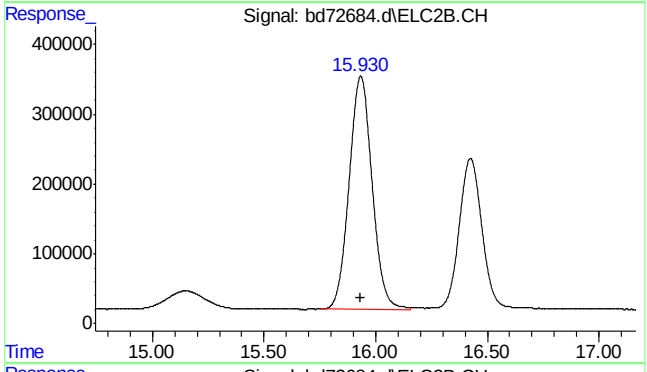
#20 naphthalene

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 27290467
Conc: 49.96 ppb m



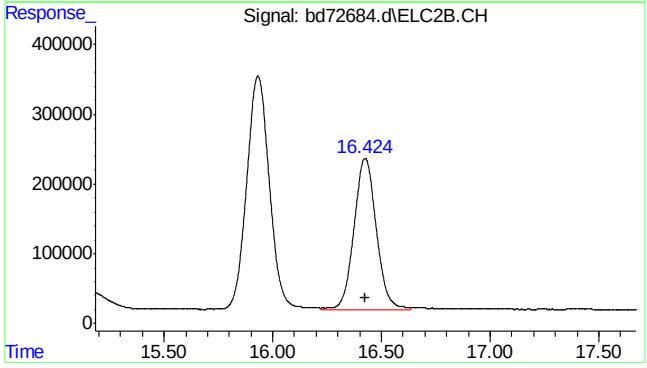
#23 mtbe #2

R.T.: 10.688 min
Delta R.T.: 0.000 min
Response: 7963229
Conc: 50.12 ppb m



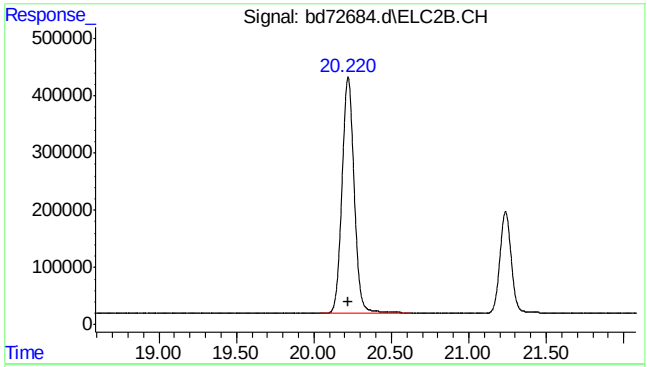
#24 benzene #2

R.T.: 15.931 min
Delta R.T.: 0.000 min
Response: 24111272
Conc: 50.00 ppb



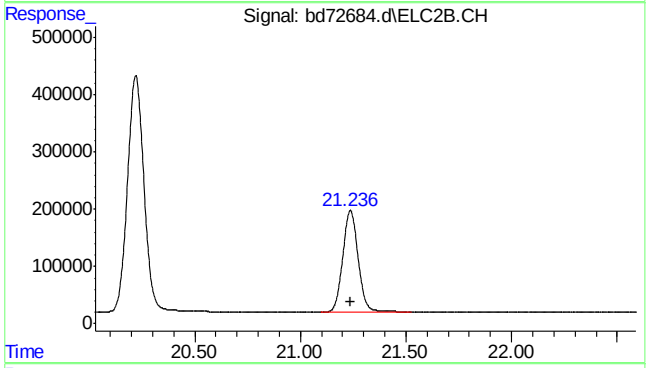
#25 fluorobenzene #2

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 15383703
Conc: 50.00 ppb



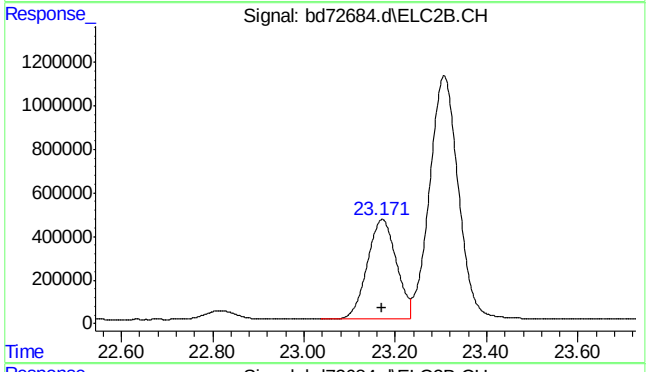
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 22561776
Conc: 50.00 ppb



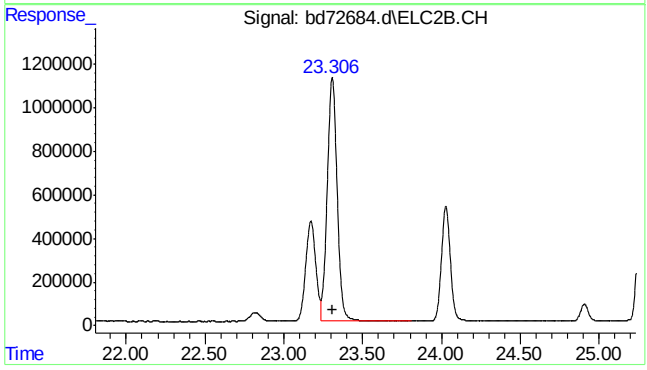
#27 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 9070743
Conc: 50.00 ppb



#28 ethylbenzene #2

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 20325119
Conc: 50.00 ppb



#29 m,p-xylene #2

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 49291829
Conc: 100.00 ppb

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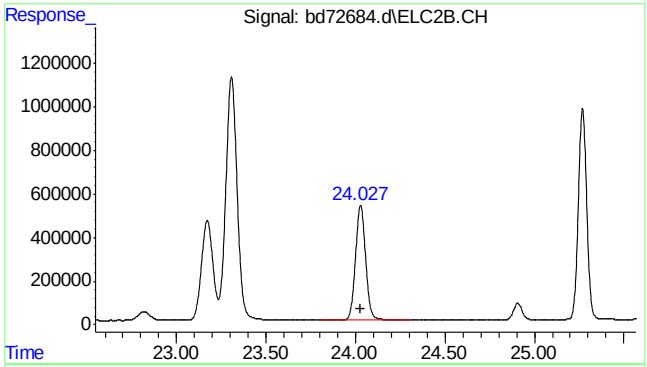
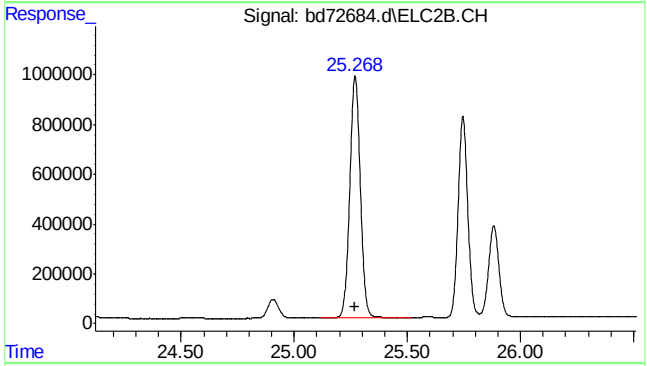


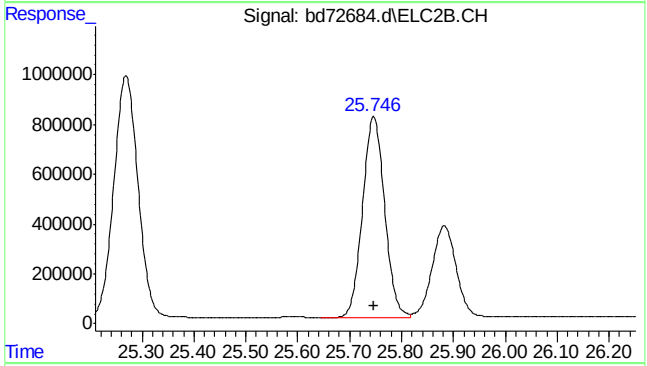
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 20846761
Conc: 50.00 ppb



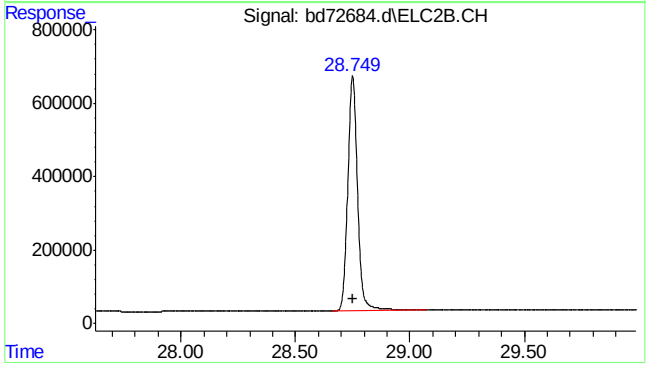
#31 1,3,5-trimethylbenzene #2

R.T.: 25.269 min
Delta R.T.: 0.000 min
Response: 31712590
Conc: 50.00 ppb



#32 1,2,4-trimethylbenzene #2

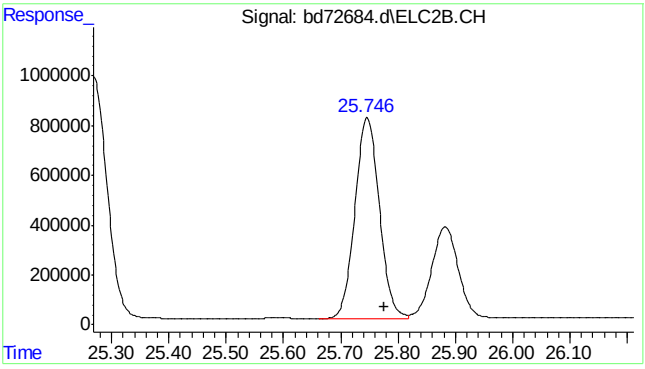
R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 23925194
Conc: 50.00 ppb



#33 naphthalene #2

R.T.: 28.749 min
Delta R.T.: 0.000 min
Response: 19084412
Conc: 50.01 ppb m

SGS ACCUTEST MC45897



#34 c9-c10 arom as 1,2,4-tmb

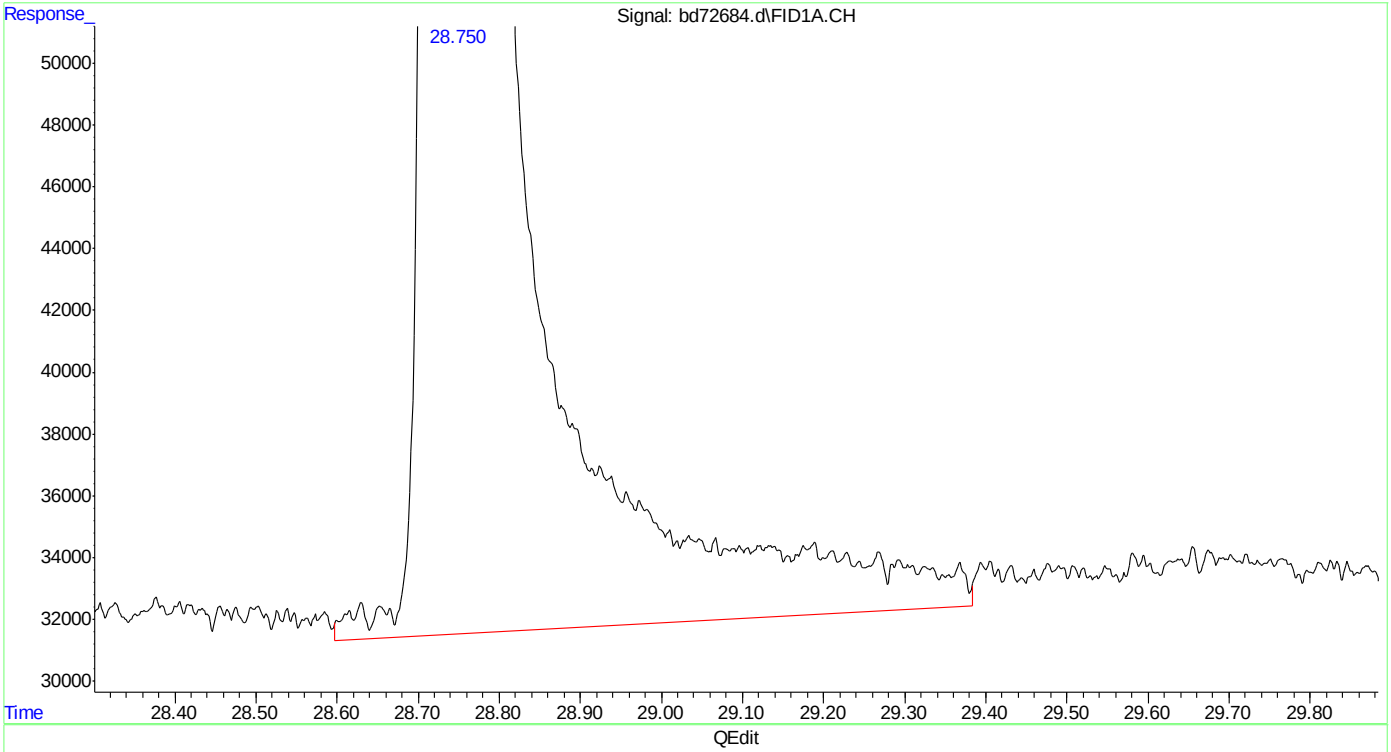
R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 23927237
Conc: 50.00 ppb m

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 10:07:12
Operator  : tonyf
Sample    : icc3752-50
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(20) naphthalene

28.750min 50.560 ppb

response 27617814

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 10:43:42 2016

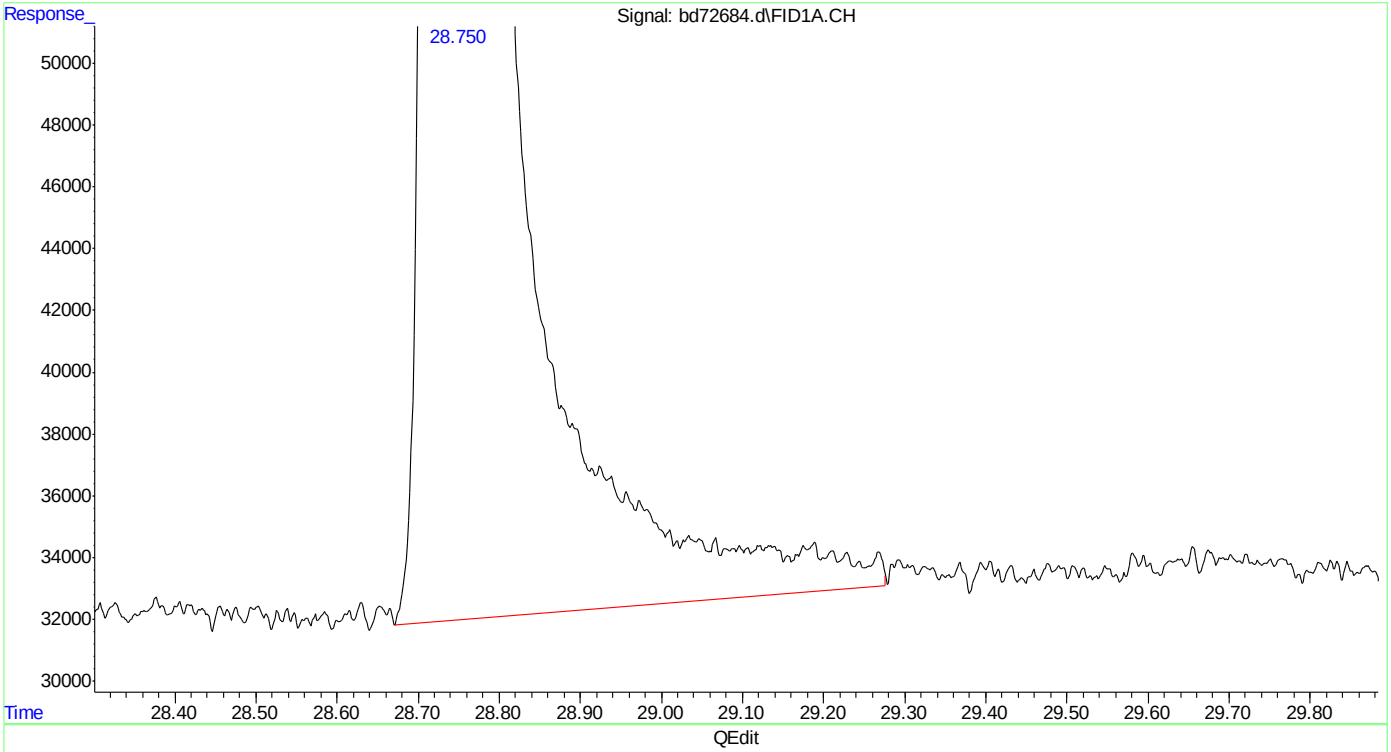
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.750min 49.961 ppb m
response 27290467

(+) = Expected Retention Time

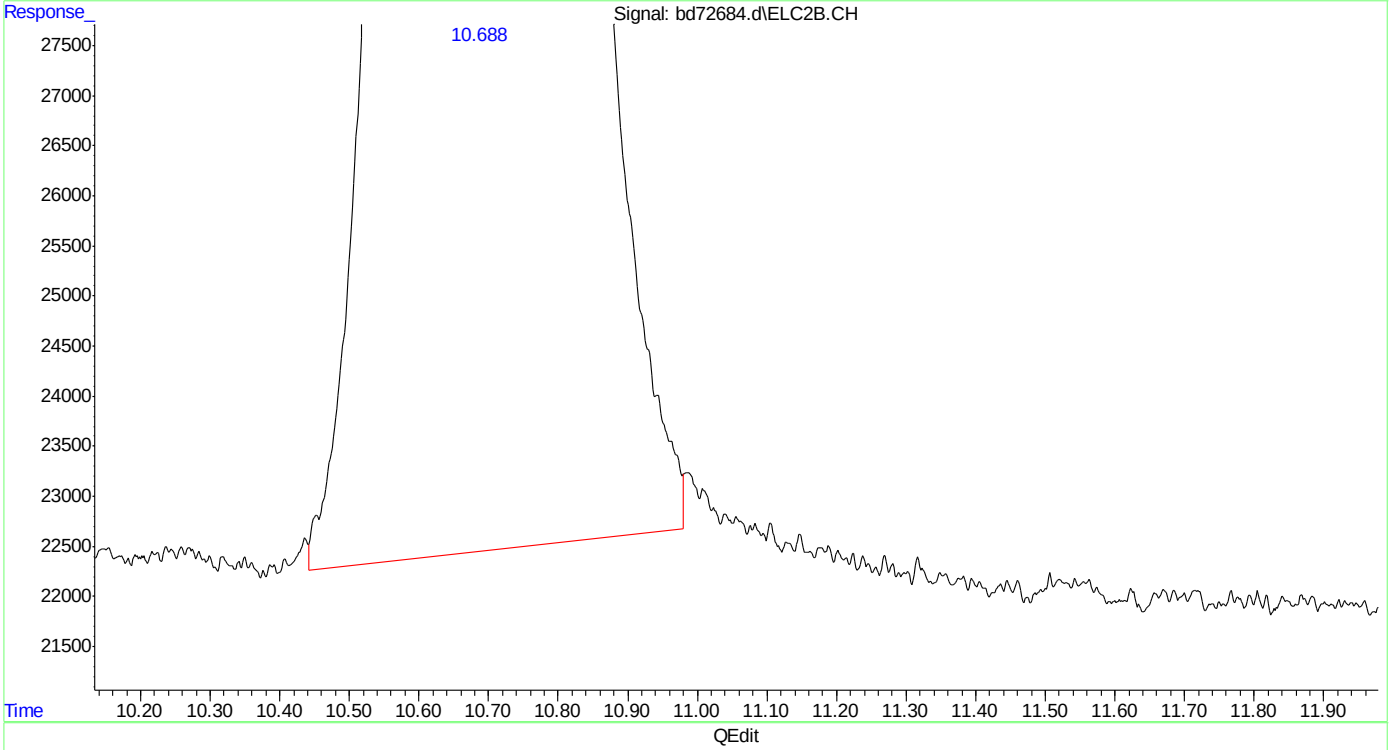
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.688min 49.028 ppb
response 7790275

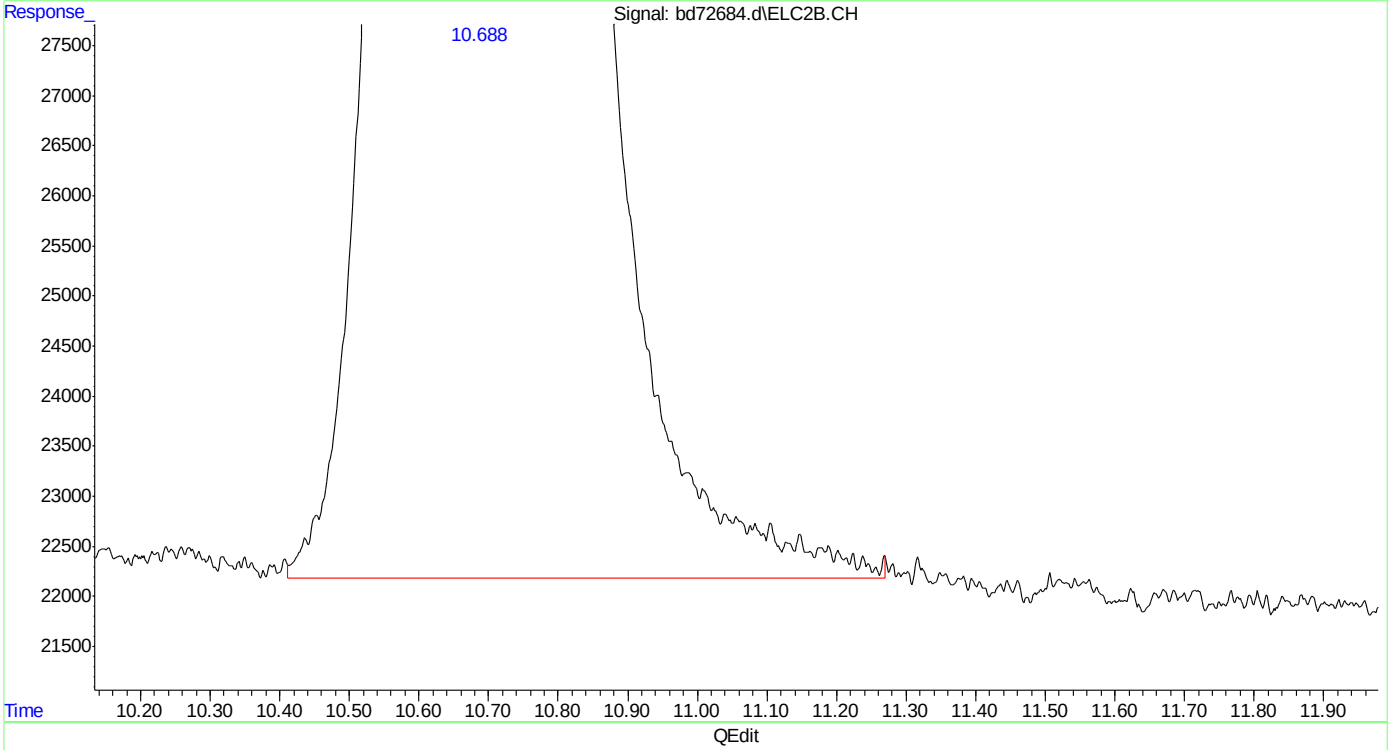
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.688min 50.116 ppb m
response 7963229

(+) = Expected Retention Time

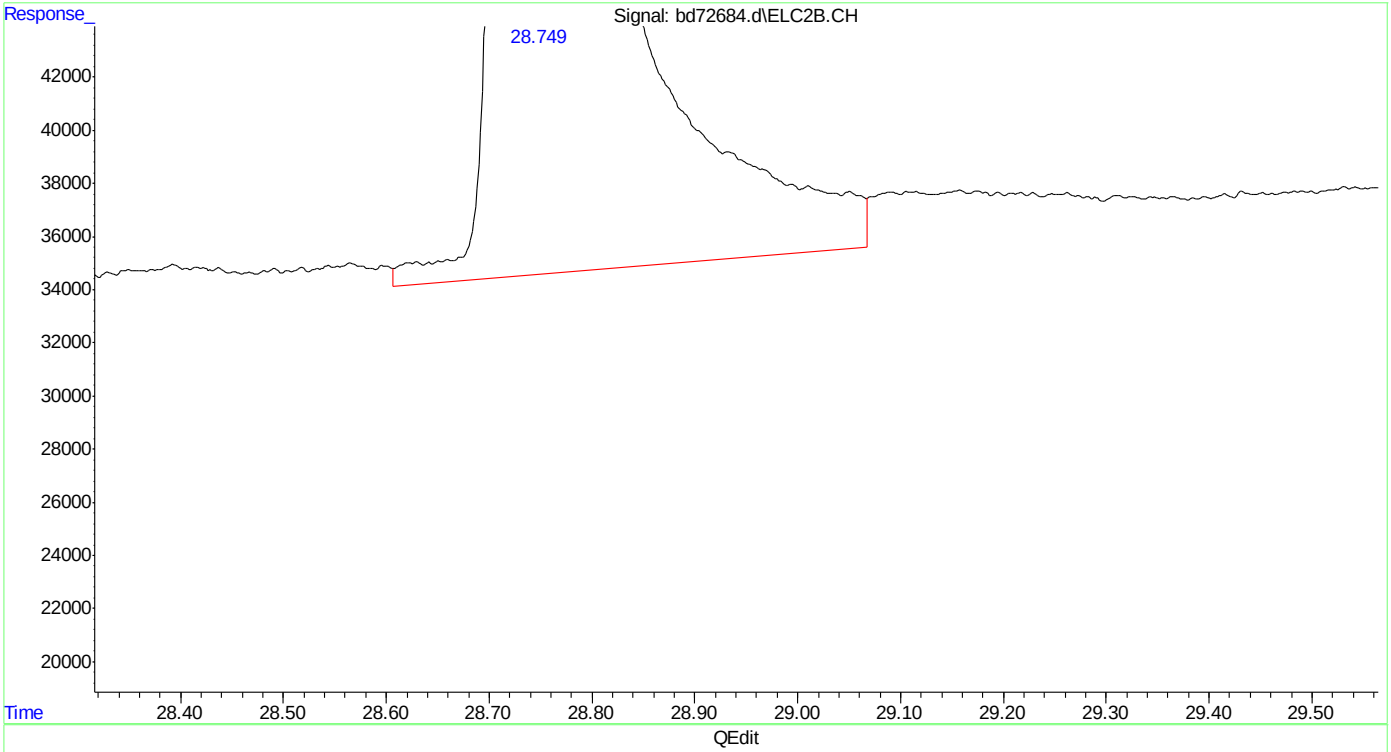
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 10:07:12
Operator  : tonyf
Sample    : icc3752-50
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(33) naphthalene #2

28.750min 50.594 ppb

response 19307823

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 10:44:11 2016

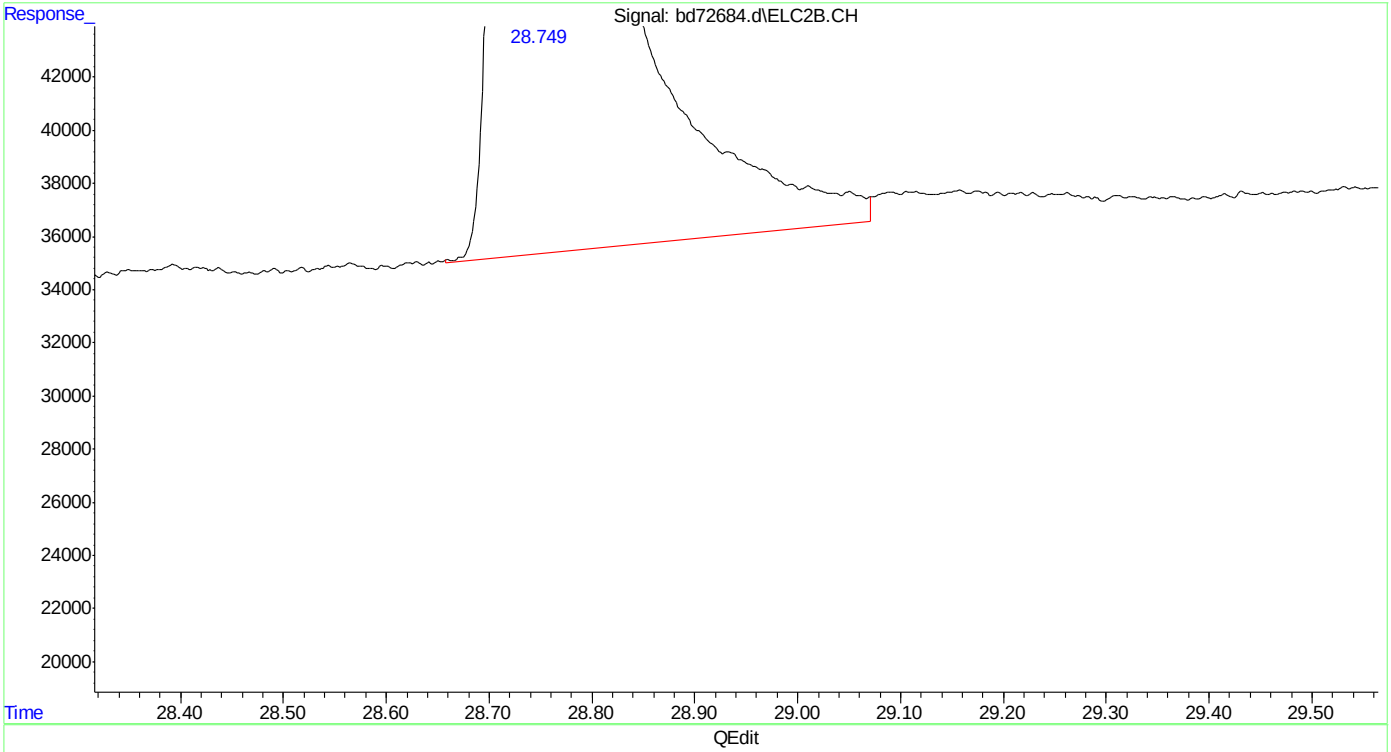
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.749min 50.008 ppb m
response 19084412

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 10:44:17 2016

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3572-10 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:07 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	16.424	7790076	10.604 ppb	m
Spiked Amount 50.000		Recovery =	21.21%	
9) s 2,3,4-trifluorotoluene	21.237	5892388	10.383 ppb	m
Spiked Amount 50.000		Recovery =	20.77%	
25) s fluorobenzene #2	16.424	3885600	10.970 ppb	m
Spiked Amount 50.000		Recovery =	21.94%	
27) s 2,3,4-trifluorotoluen...	21.237	2170174	10.531 ppb	m
Spiked Amount 50.000		Recovery =	21.06%	
Target Compounds				
1) h rt5.5-7	7.470	5478380	9.673 ppb	m
2) h rt7/10	9.920	6151519	9.578 ppb	m
3) mtbe	10.683	2869302	9.915 ppb	m
4) h rt10/13	15.200	7560791	10.267 ppb	m
5) benzene	15.934	7526601	9.594 ppb	m
8) toluene	20.220	7478514	9.601 ppb	m
11) h rt20/25	22.840	8045975	9.978 ppb	m
13) ethylbenzene	23.172	7648937	9.735 ppb	
14) m,p-xylene	23.307	16659616	20.368 ppb	
15) o-xylene	24.029	8134654	9.865 ppb	
16) h decane	24.930	8489226	9.899 ppb	m
17) t 1,3,5-trimethylbenzene	25.270	9966676	10.402 ppb	
18) 1,2,4-trimethylbenzene	25.747	8741165	10.031 ppb	
19) h butylcyclohexane	25.908	9260257	10.094 ppb	m
20) naphthalene	28.751	4112144	9.611 ppb	
23) mtbe #2	10.696	1570260	10.071 ppb	m
24) benzene #2	15.932	4569131	9.758 ppb	
26) toluene #2	20.221	4236945	9.801 ppb	m
28) ethylbenzene #2	23.172	3840788	9.811 ppb	
29) m,p-xylene #2	23.307	9363713	19.635 ppb	
30) o-xylene #2	24.028	4014129	9.824 ppb	
31) t 1,3,5-trimethylbenzen...	25.268	6605929	10.076 ppb	m
32) 1,2,4-trimethylbenzen...	25.746	4478298	9.727 ppb	m
33) naphthalene #2	28.750	2921622	9.536 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	4489691	9.785 ppb	m

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

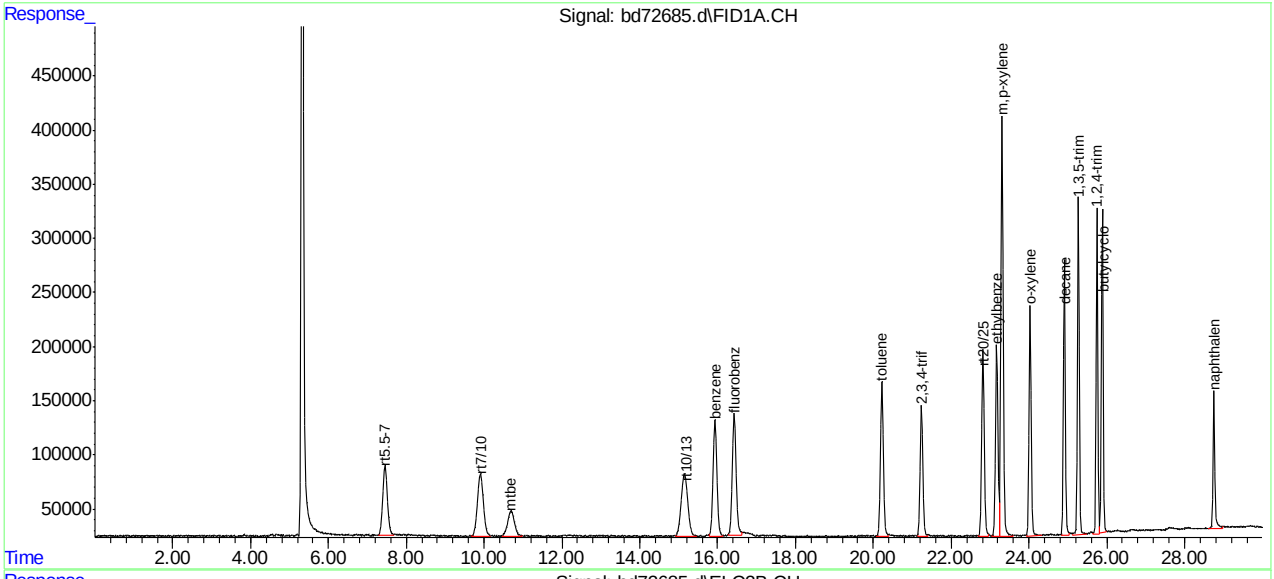
SGS ACCUTEST MC45897

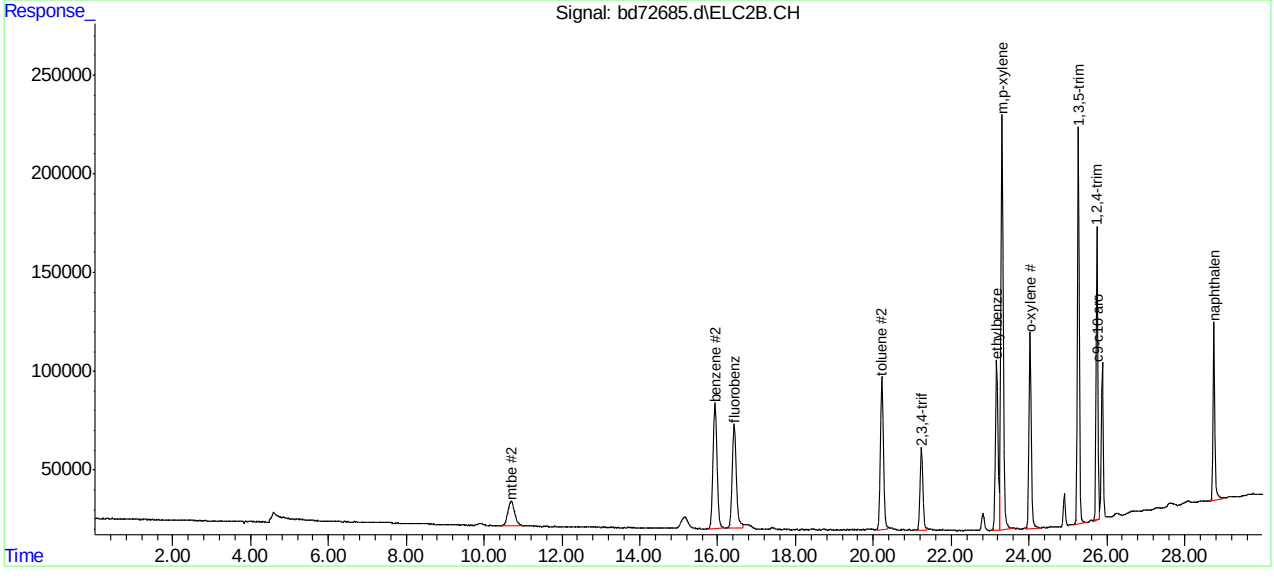
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3572-10 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

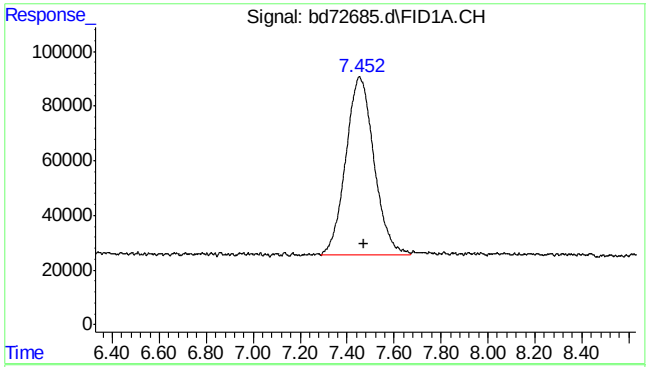
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:07 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



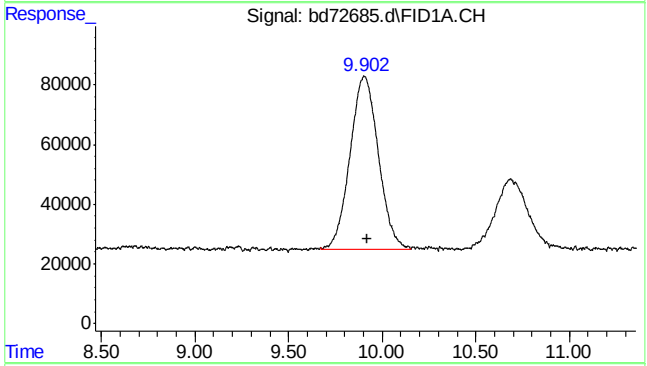


SGS ACCUTEST MC45897



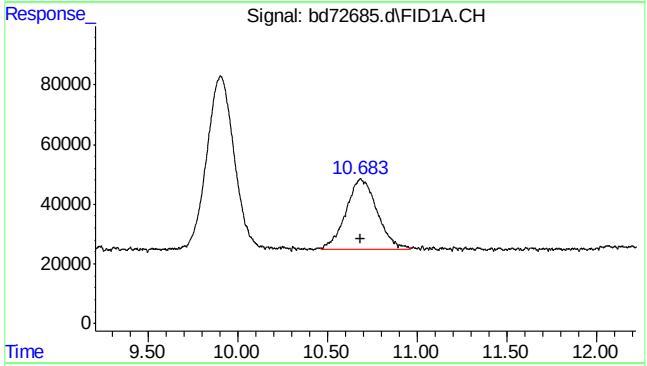
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 5478380
Conc: 9.67 ppb m



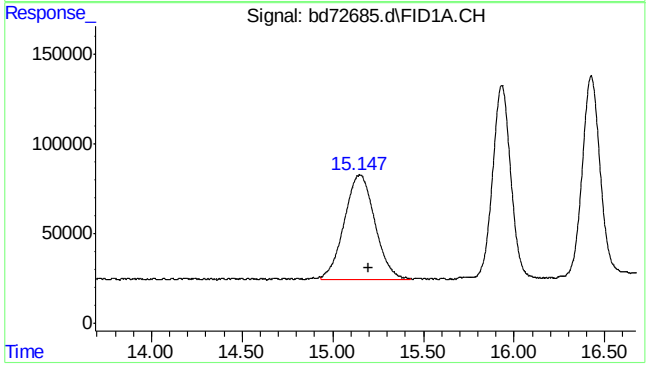
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 6151519
Conc: 9.58 ppb m



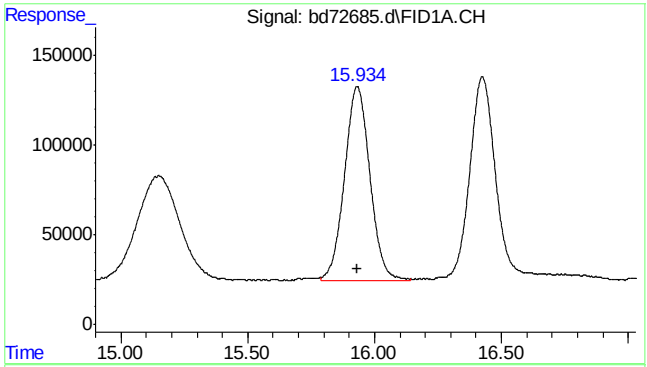
#3 mtbe

R.T.: 10.683 min
Delta R.T.: 0.000 min
Response: 2869302
Conc: 9.92 ppb m



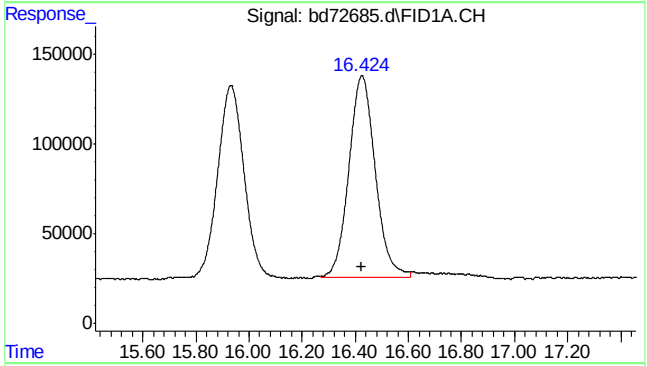
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 7560791
Conc: 10.27 ppb m



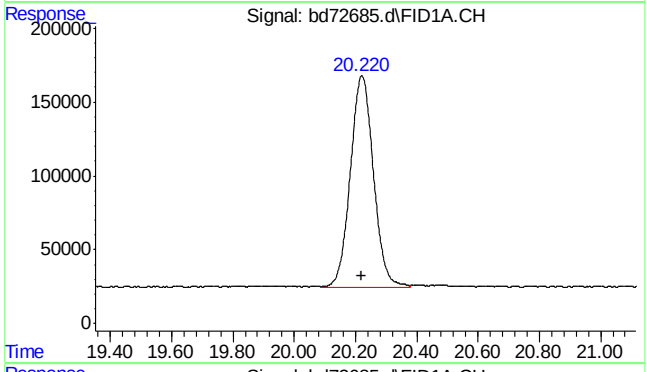
#5 benzene

R.T.: 15.934 min
Delta R.T.: 0.001 min
Response: 7526601
Conc: 9.59 ppb m



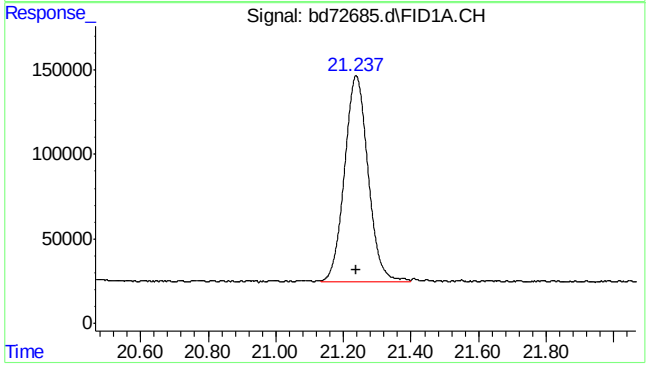
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 7790076
Conc: 10.60 ppb m



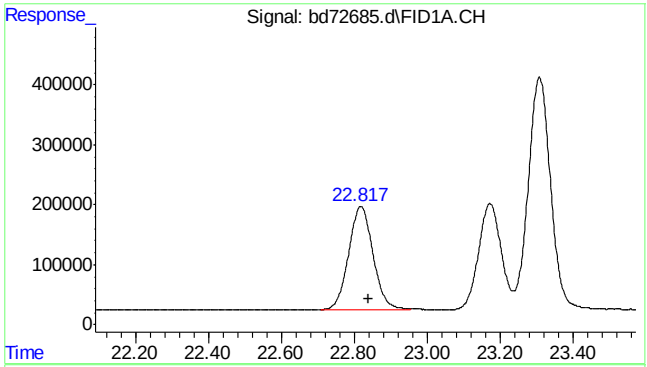
#8 toluene

R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 7478514
Conc: 9.60 ppb m



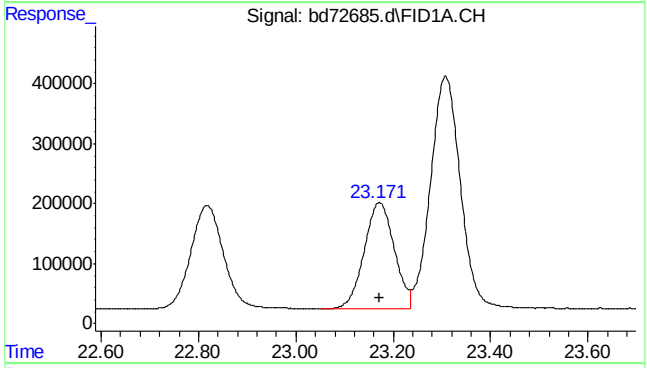
#9 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 5892388
Conc: 10.38 ppb m



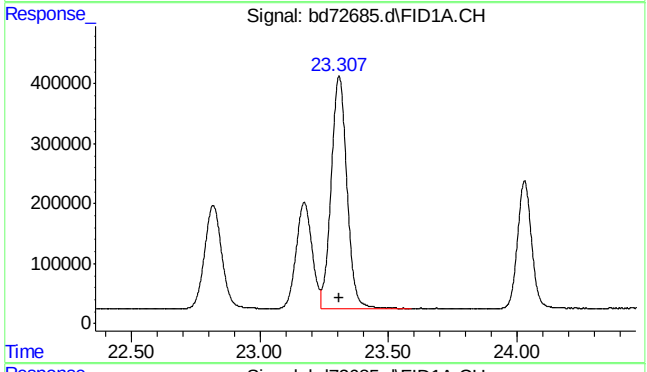
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 8045975
Conc: 9.98 ppb m



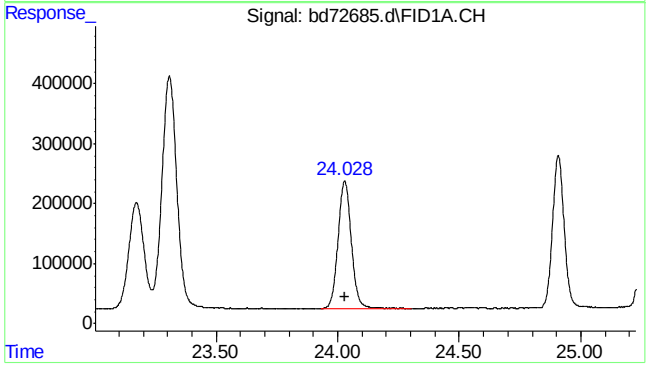
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 7648937
Conc: 9.73 ppb



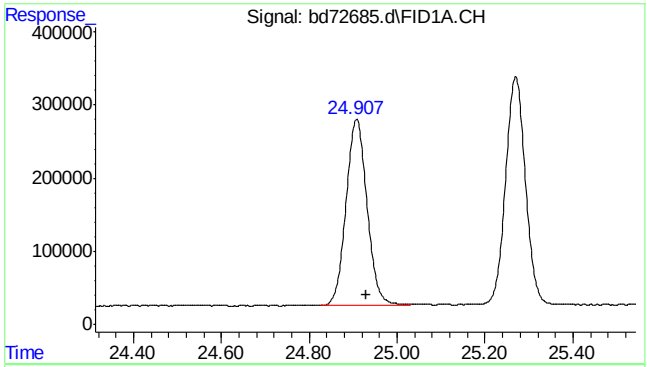
#14 m,p-xylene

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 16659616
Conc: 20.37 ppb



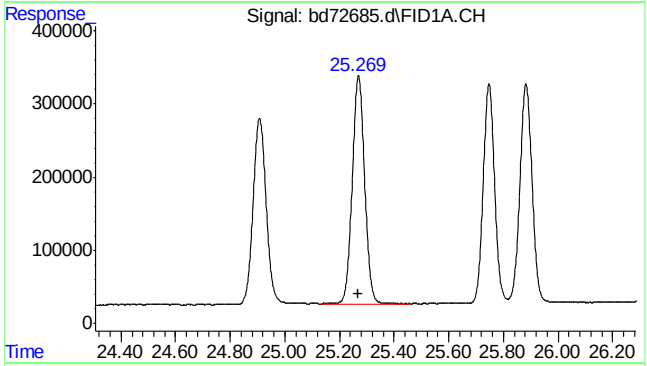
#15 o-xylene

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 8134654
Conc: 9.86 ppb



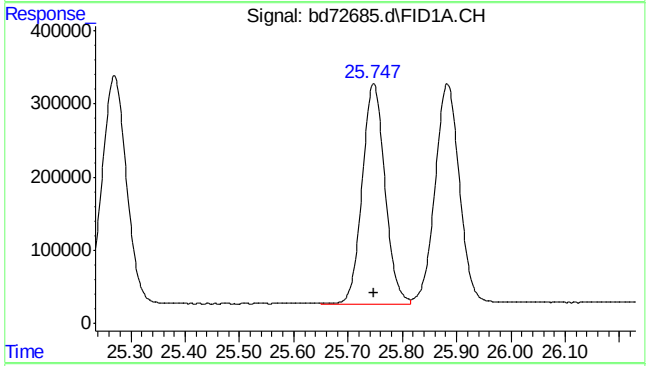
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 8489226
Conc: 9.90 ppb m



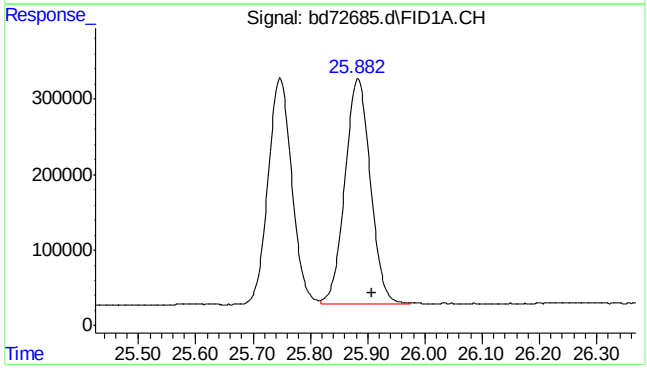
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 9966676
Conc: 10.40 ppb



#18 1,2,4-trimethylbenzene

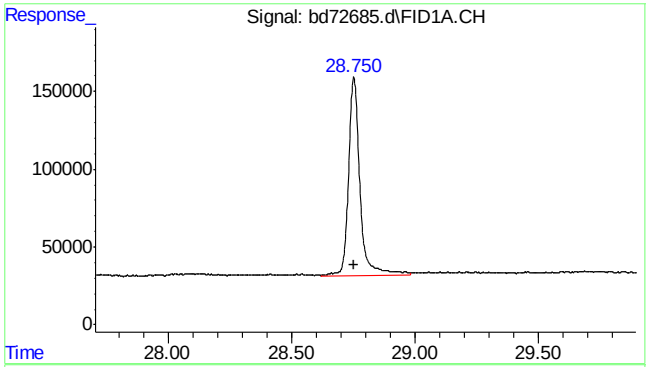
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 8741165
Conc: 10.03 ppb



#19 butylcyclohexane

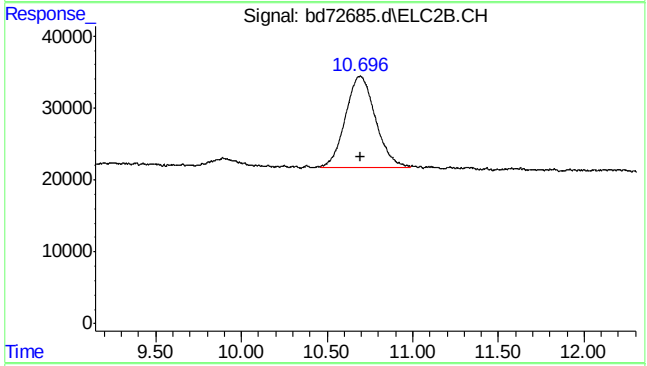
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 9260257
Conc: 10.09 ppb m

SGS ACCUTEST MC45897



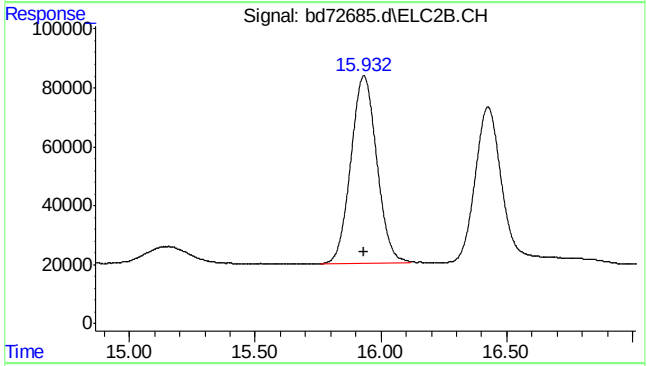
#20 naphthalene

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 4112144
Conc: 9.61 ppb



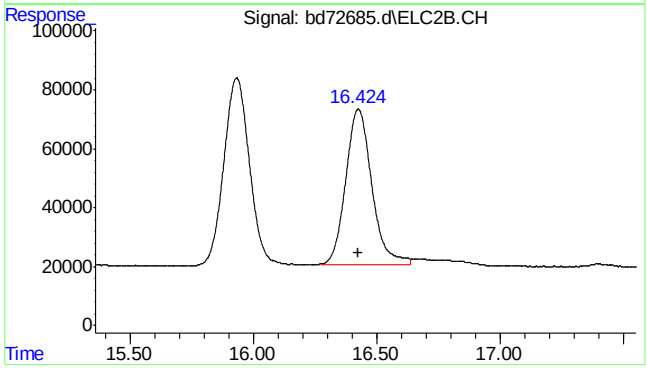
#23 mtbe #2

R.T.: 10.696 min
Delta R.T.: 0.000 min
Response: 1570260
Conc: 10.07 ppb m



#24 benzene #2

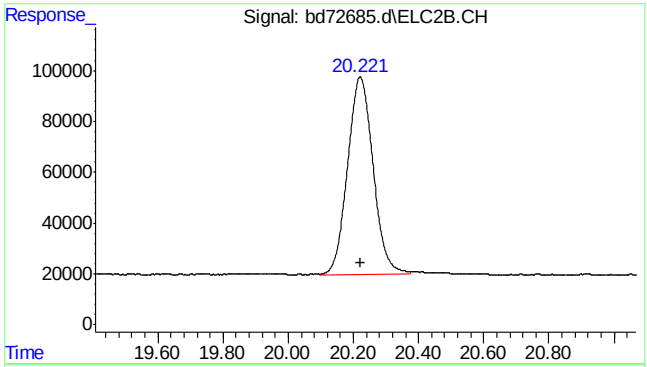
R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 4569131
Conc: 9.76 ppb



#25 fluorobenzene #2

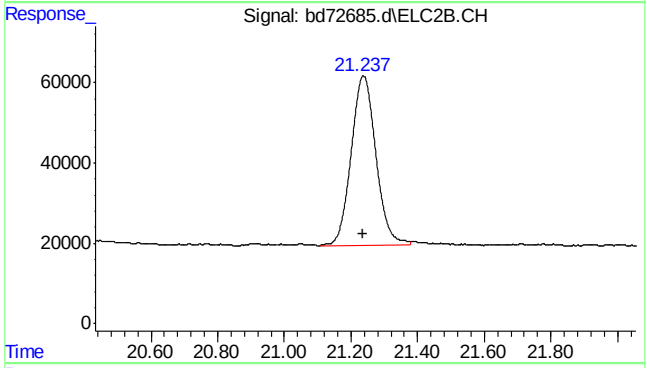
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 3885600
Conc: 10.97 ppb m

SGS ACCUTEST MC45897



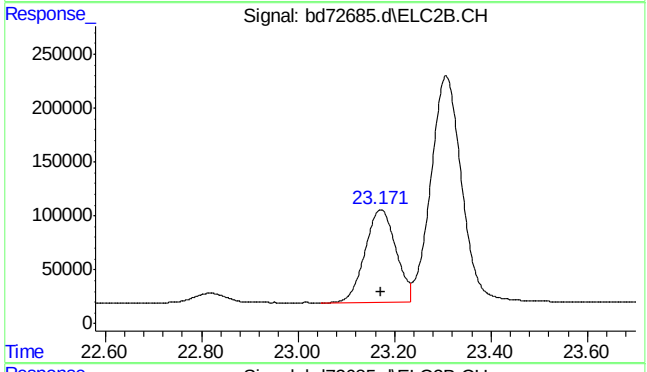
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 4236945
Conc: 9.80 ppb m



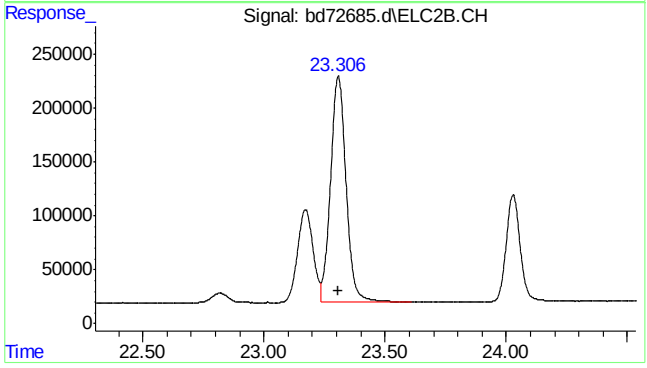
#27 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 2170174
Conc: 10.53 ppb m



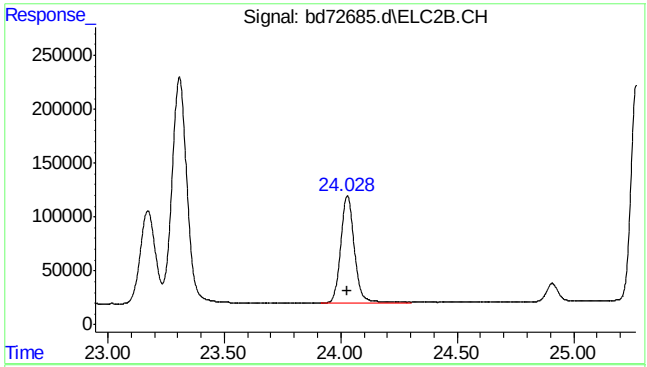
#28 ethylbenzene #2

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 3840788
Conc: 9.81 ppb



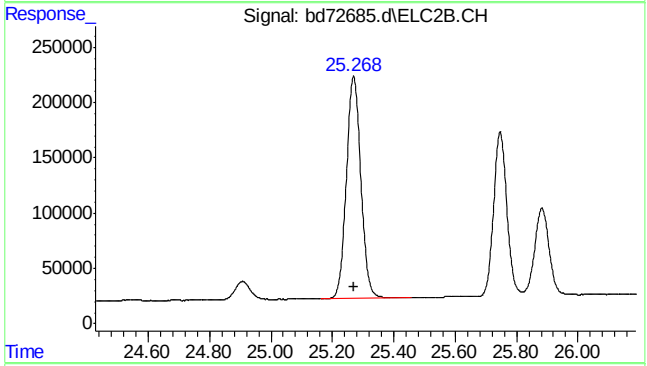
#29 m,p-xylene #2

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 9363713
Conc: 19.64 ppb



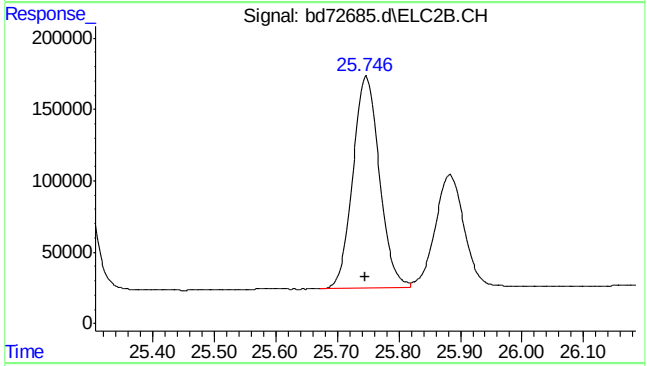
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 4014129
Conc: 9.82 ppb



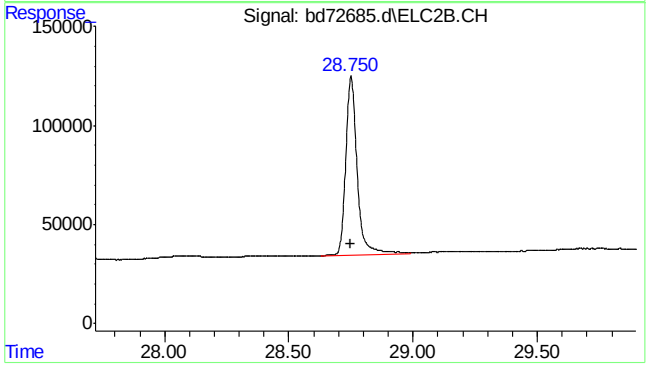
#31 1,3,5-trimethylbenzene #2

R.T.: 25.268 min
Delta R.T.: 0.000 min
Response: 6605929
Conc: 10.08 ppb m



#32 1,2,4-trimethylbenzene #2

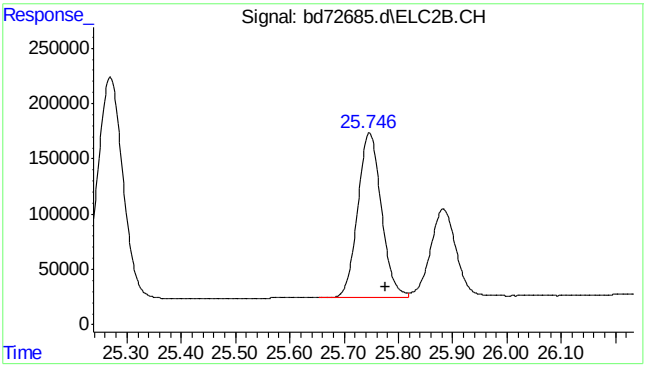
R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 4478298
Conc: 9.73 ppb m



#33 naphthalene #2

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 2921622
Conc: 9.54 ppb m

SGS ACCUTEST MC45897



#34 c9-c10 arom as 1,2,4-tmb

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	4489691
Conc:	9.79 ppb m

7.5.6

7

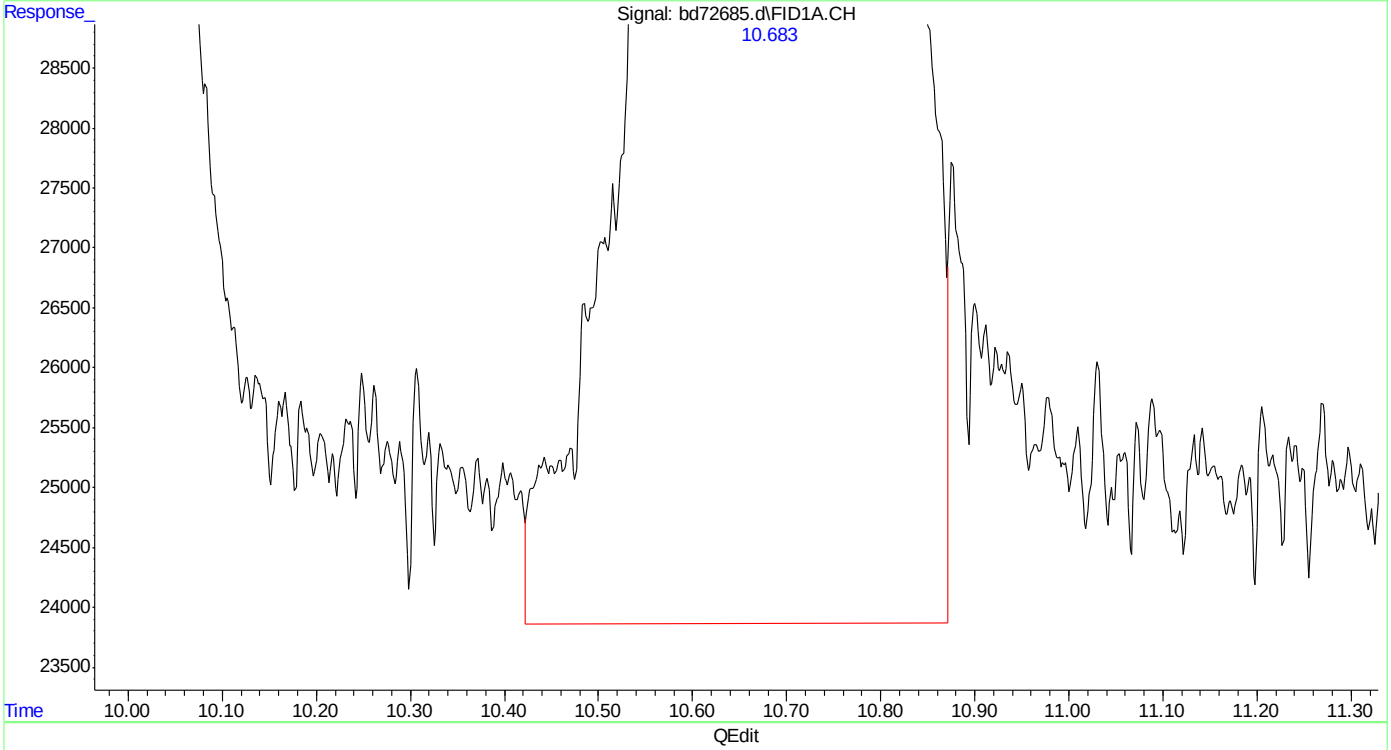
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
10.685min 9.932 ppb
response 3071017

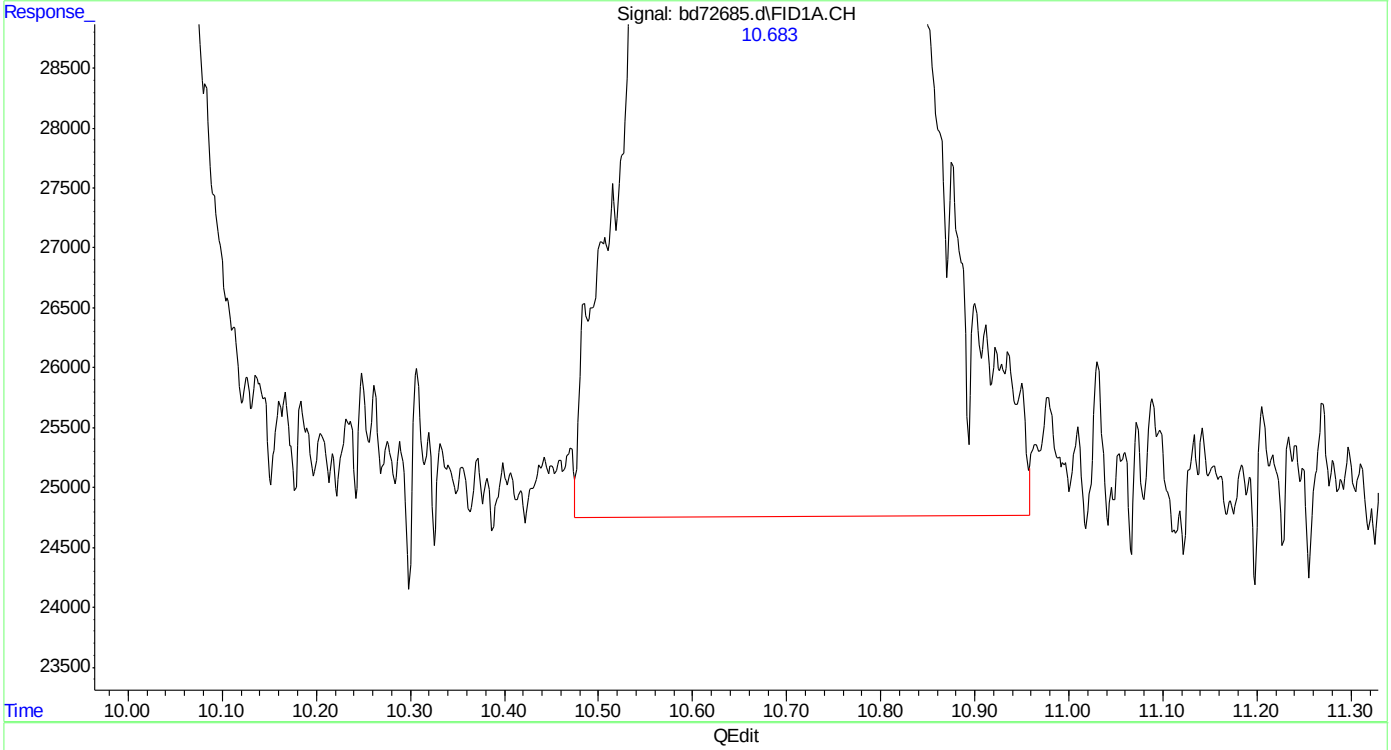
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
10.683min 9.362 ppb m
response 2894827

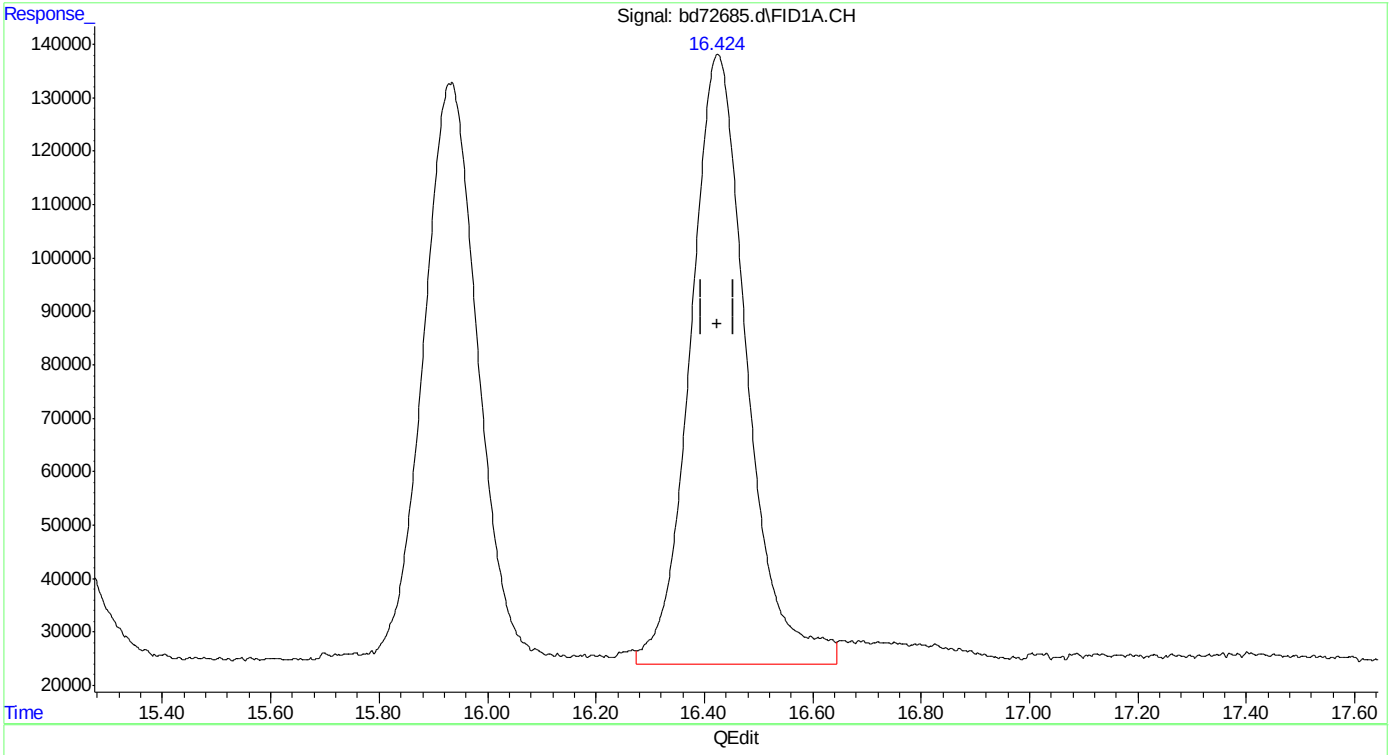
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:24:41 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) fluorobenzene (s)
16.425min 12.087 ppb
response 8237267

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:25:00 2016

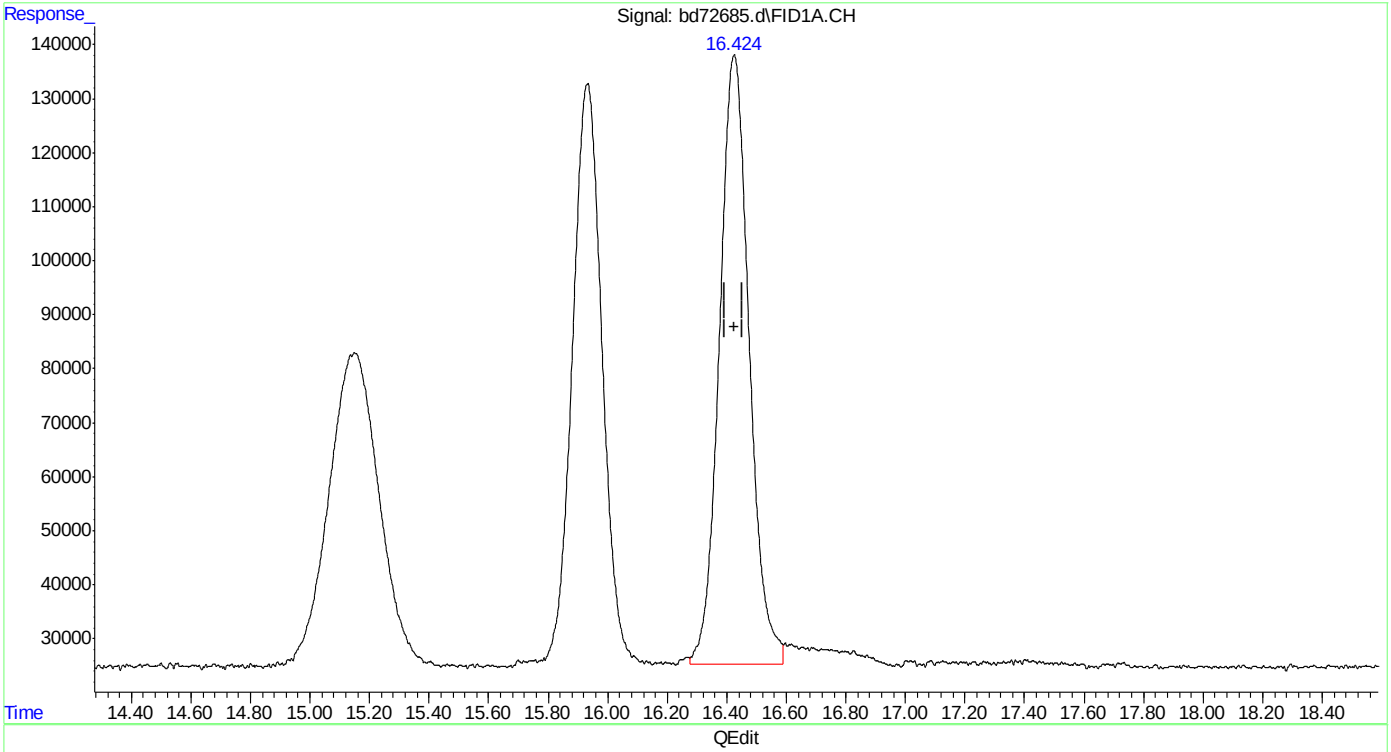
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) fluorobenzene (s)
16.424min 11.475 ppb m
response 7820563

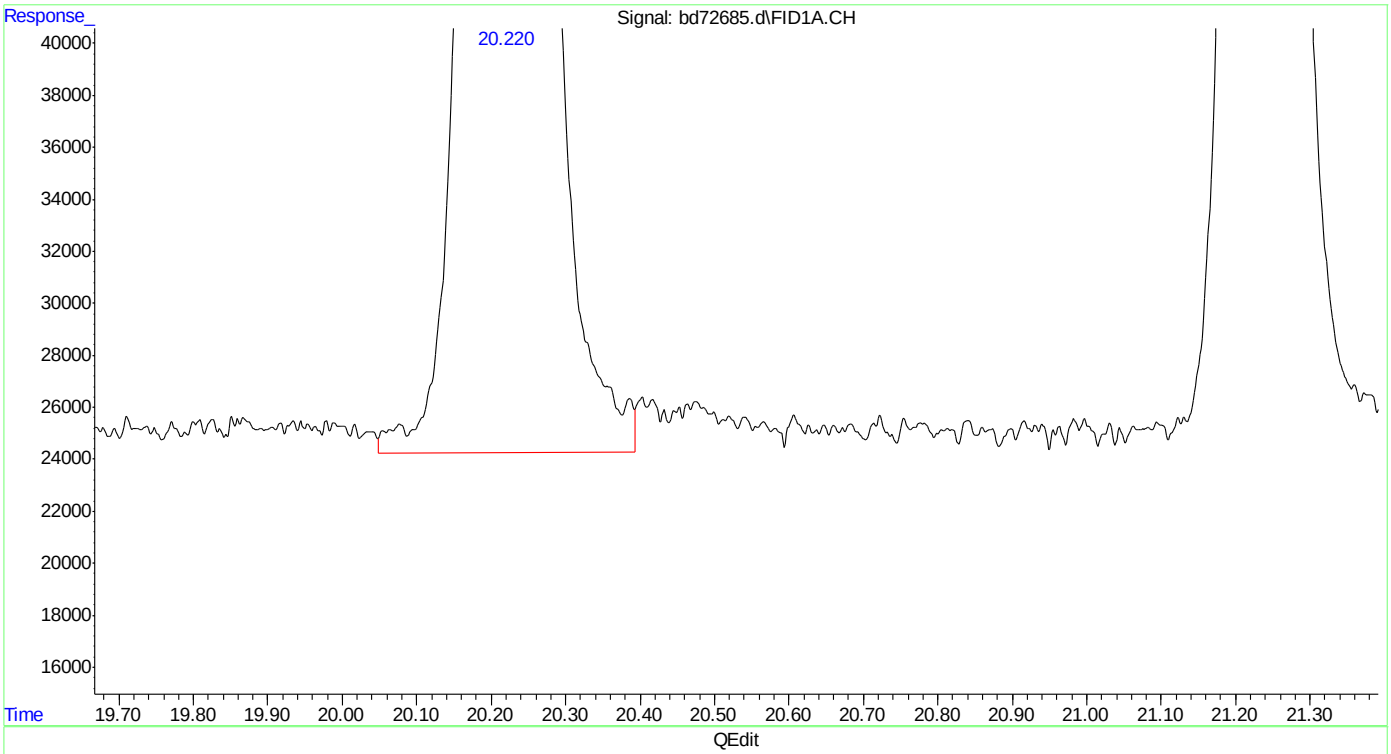
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:25:09 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
20.221min 8.899 ppb
response 7610241

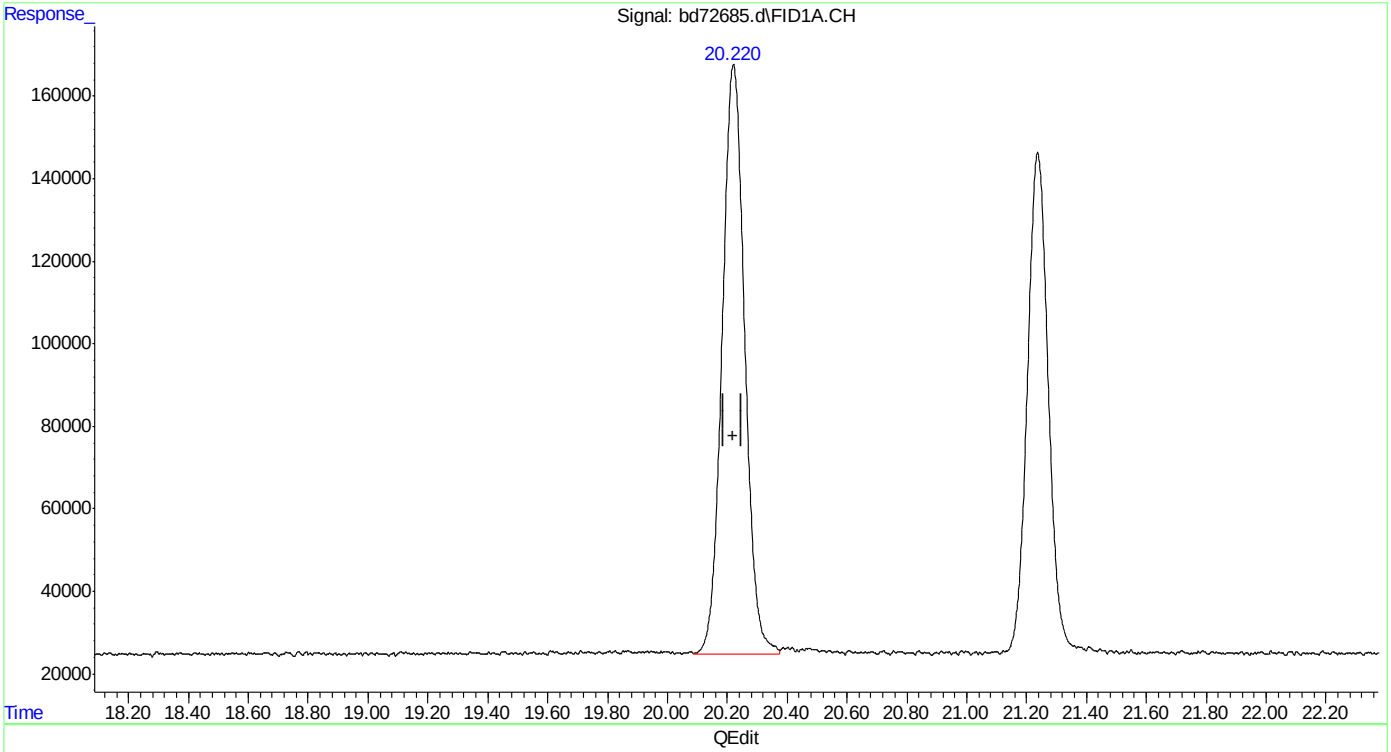
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:25:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
20.220min 8.745 ppb m
response 7477968

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:25:29 2016

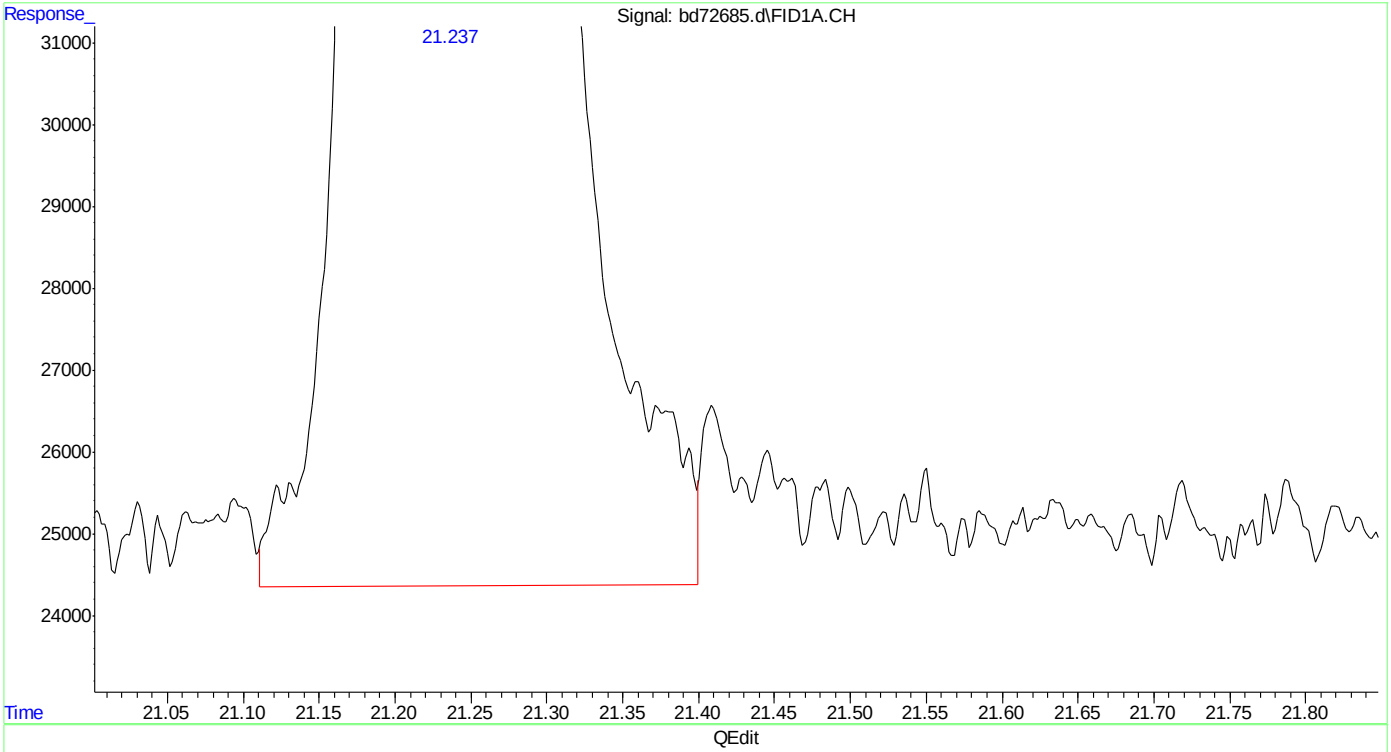
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(9) 2,3,4-trifluorotoluene (s)
21.238min 11.128 ppb
response 6002419

(+) = Expected Retention Time

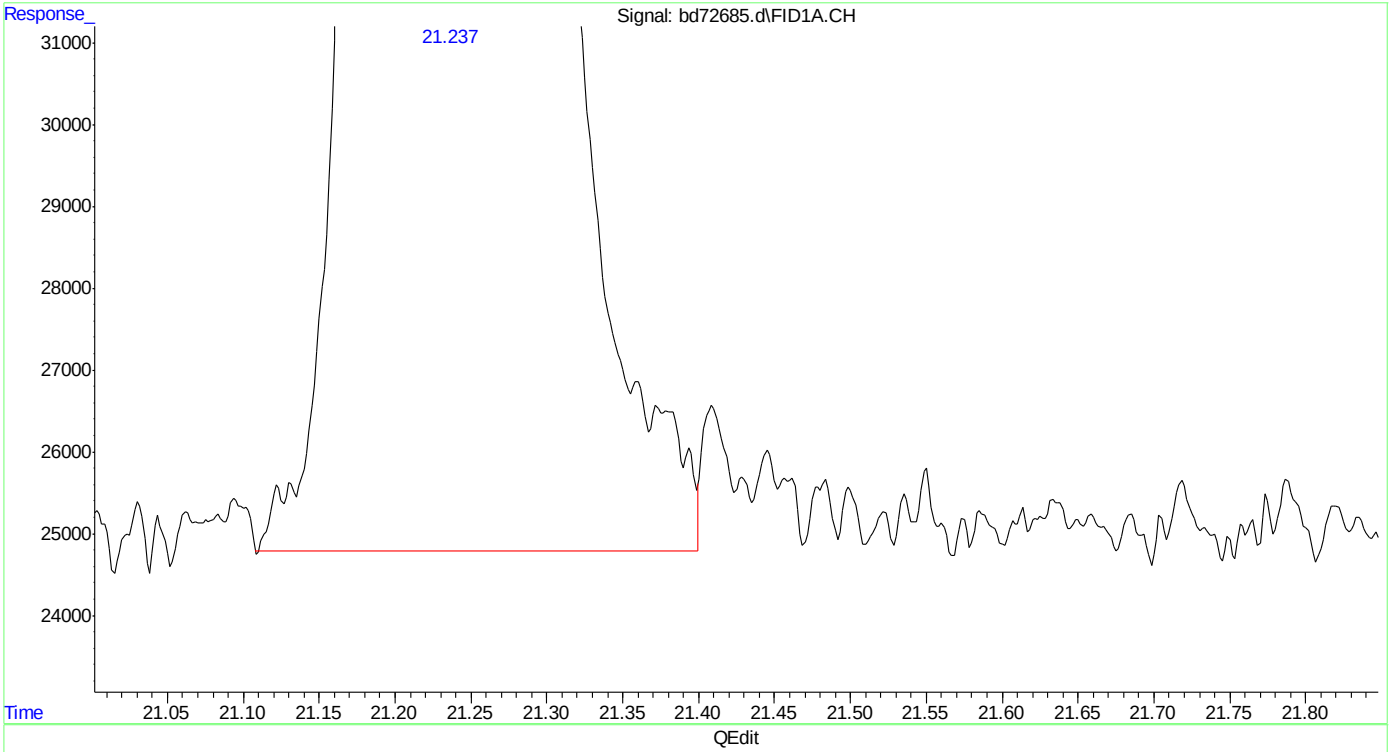
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(9) 2,3,4-trifluorotoluene (s)
21.237min 10.991 ppb m
response 5928362

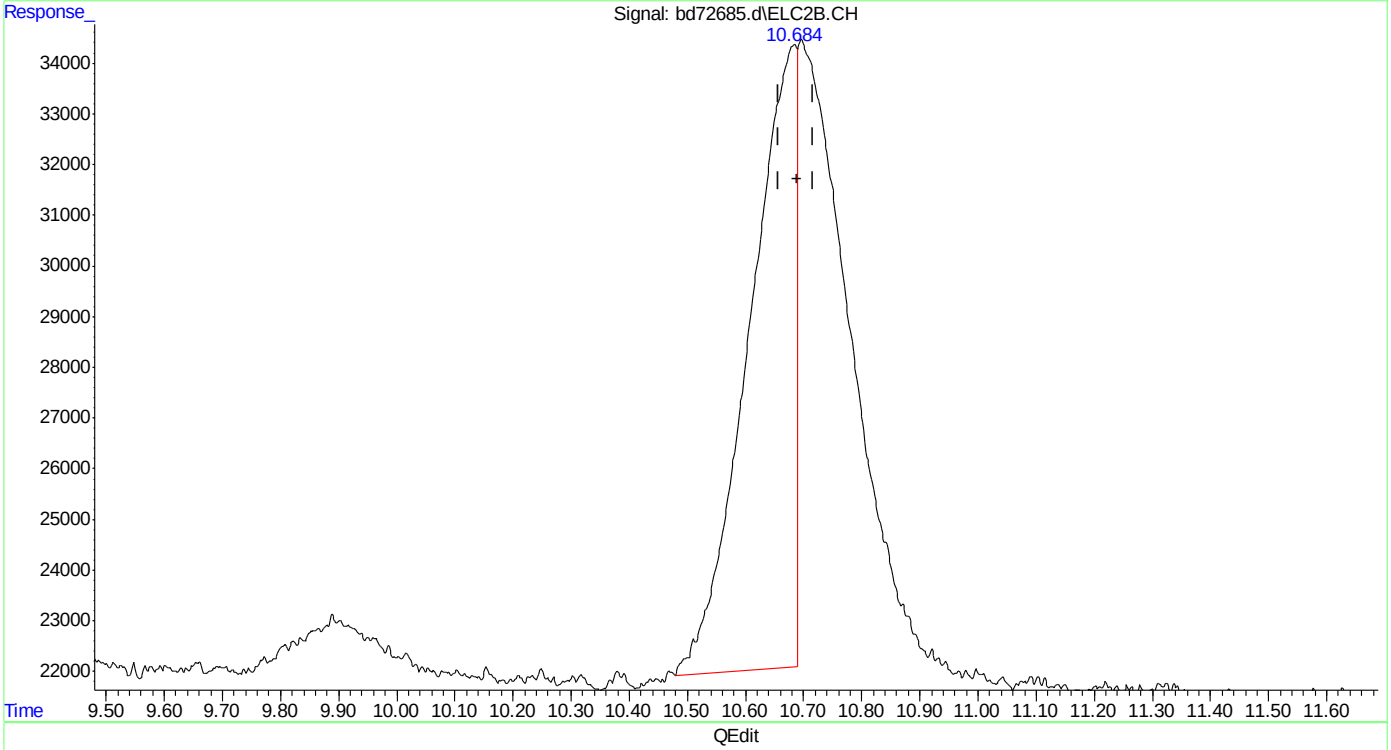
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.684min 4.270 ppb
response 680109

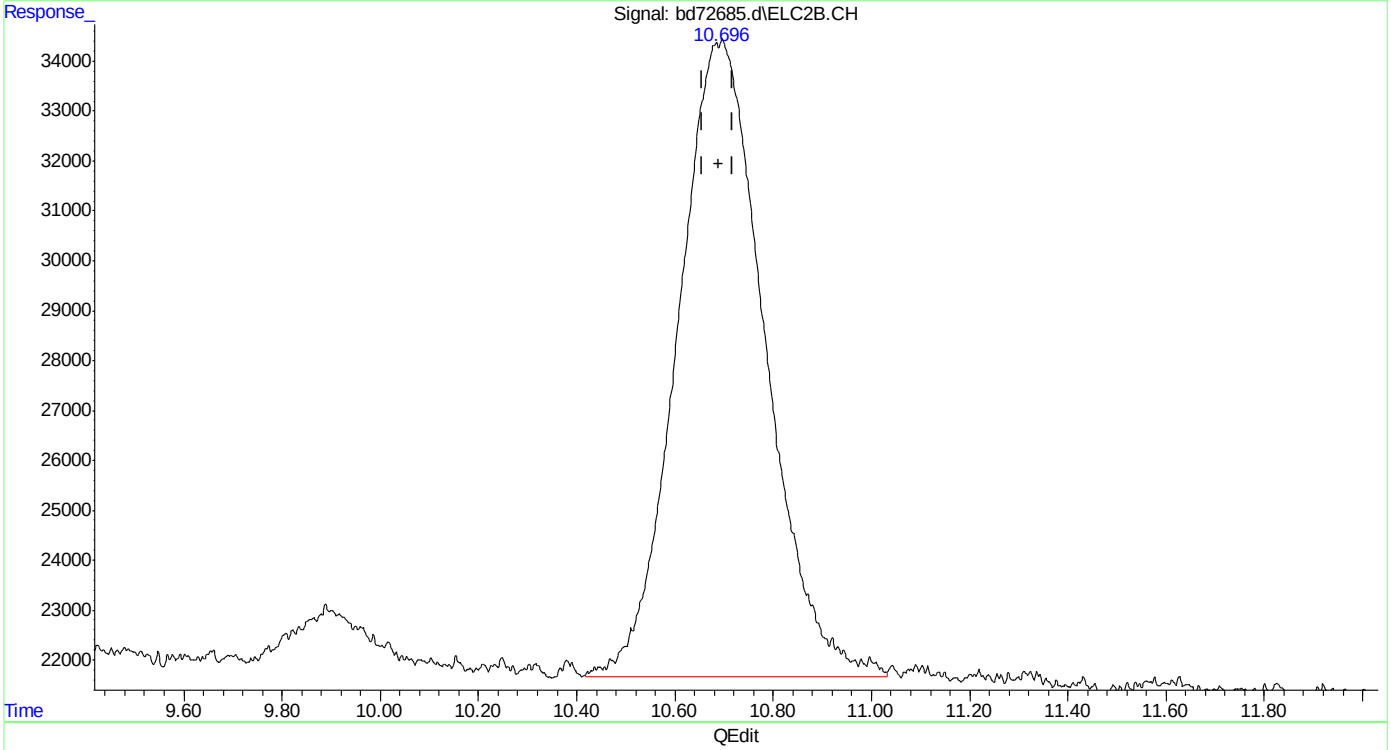
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:21 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.696min 9.879 ppb m
response 1573347

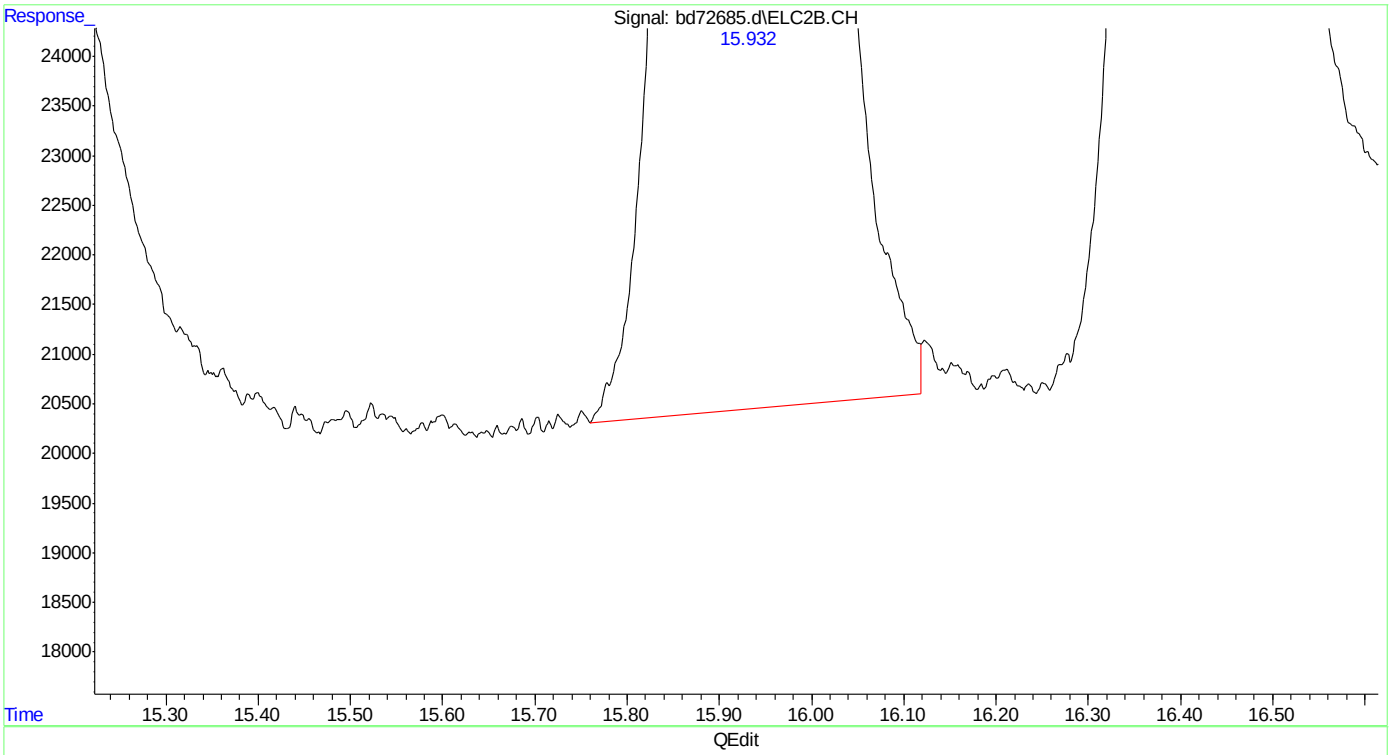
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 10:44:19
Operator  : tonyf
Sample    : ic3752-10
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) benzene #2

15.932min 9.475 ppb

response 4569131

(+) = Expected Retention Time

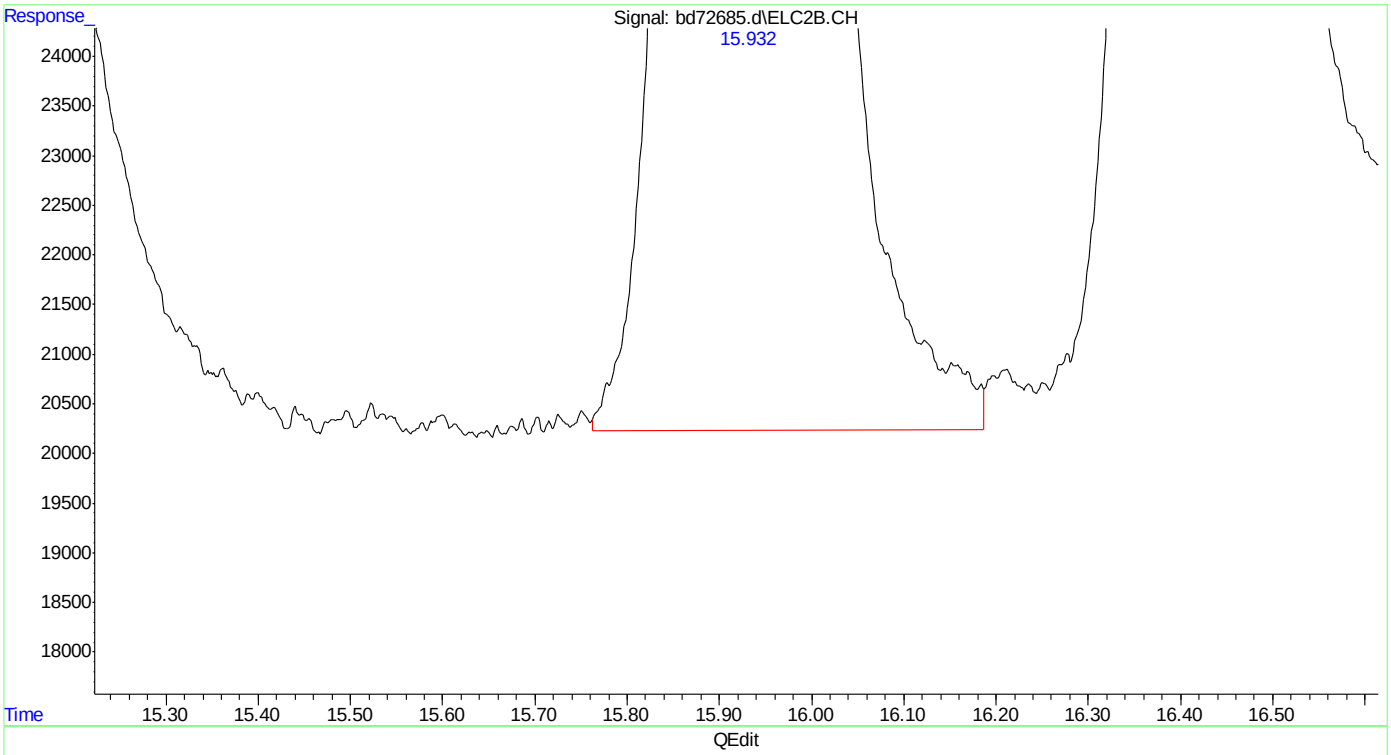
bd160219master.M Fri Feb 19 11:26:34 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) benzene #2
15.932min 9.625 ppb m
response 4641530

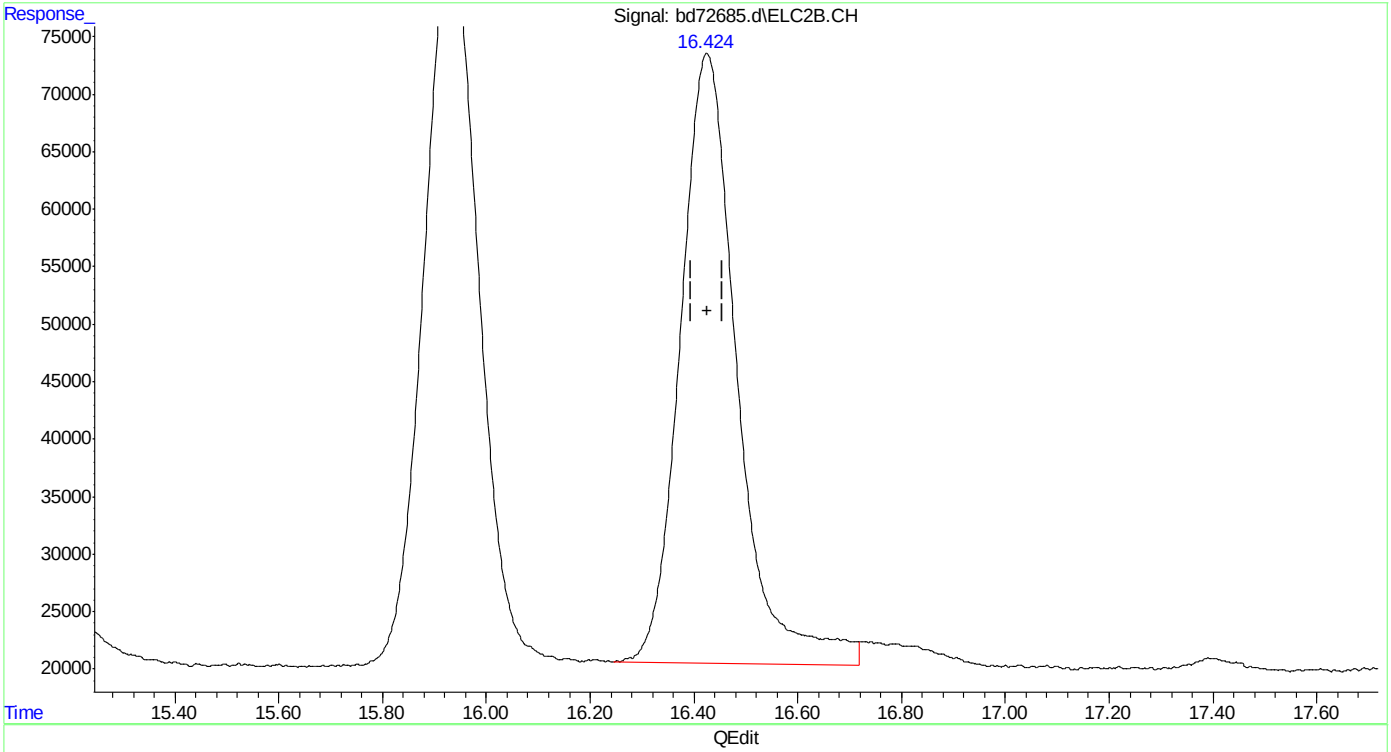
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:39 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
16.425min 13.152 ppb
response 4046516

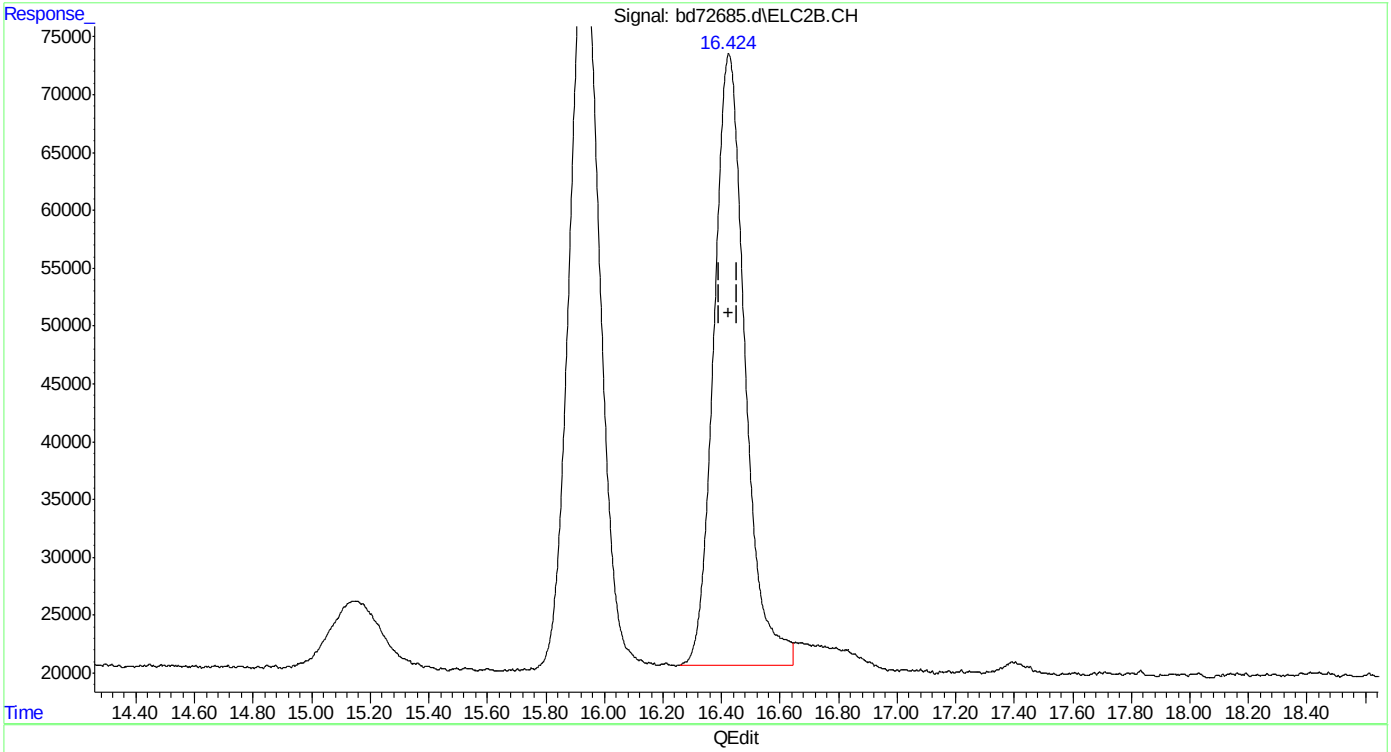
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
16.424min 12.680 ppb m
response 3901231

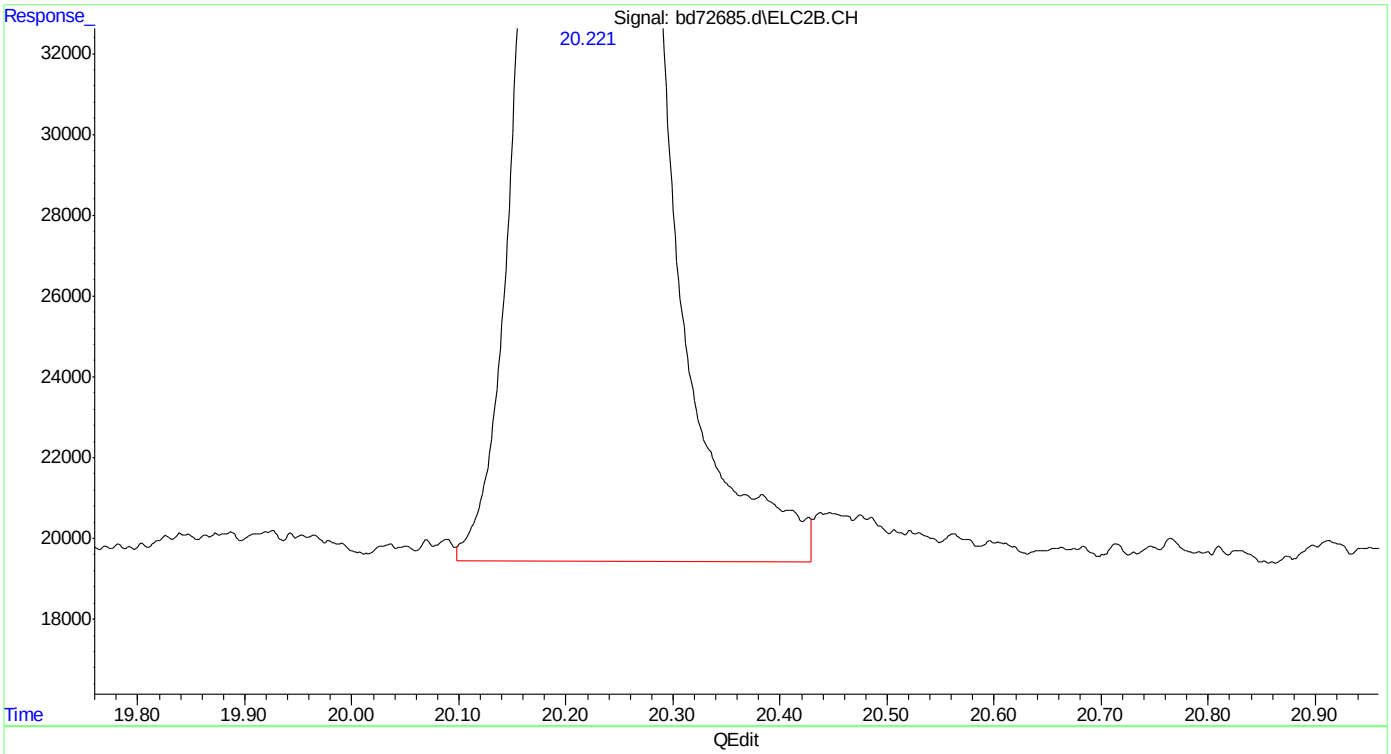
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
20.221min 9.622 ppb
response 4341841

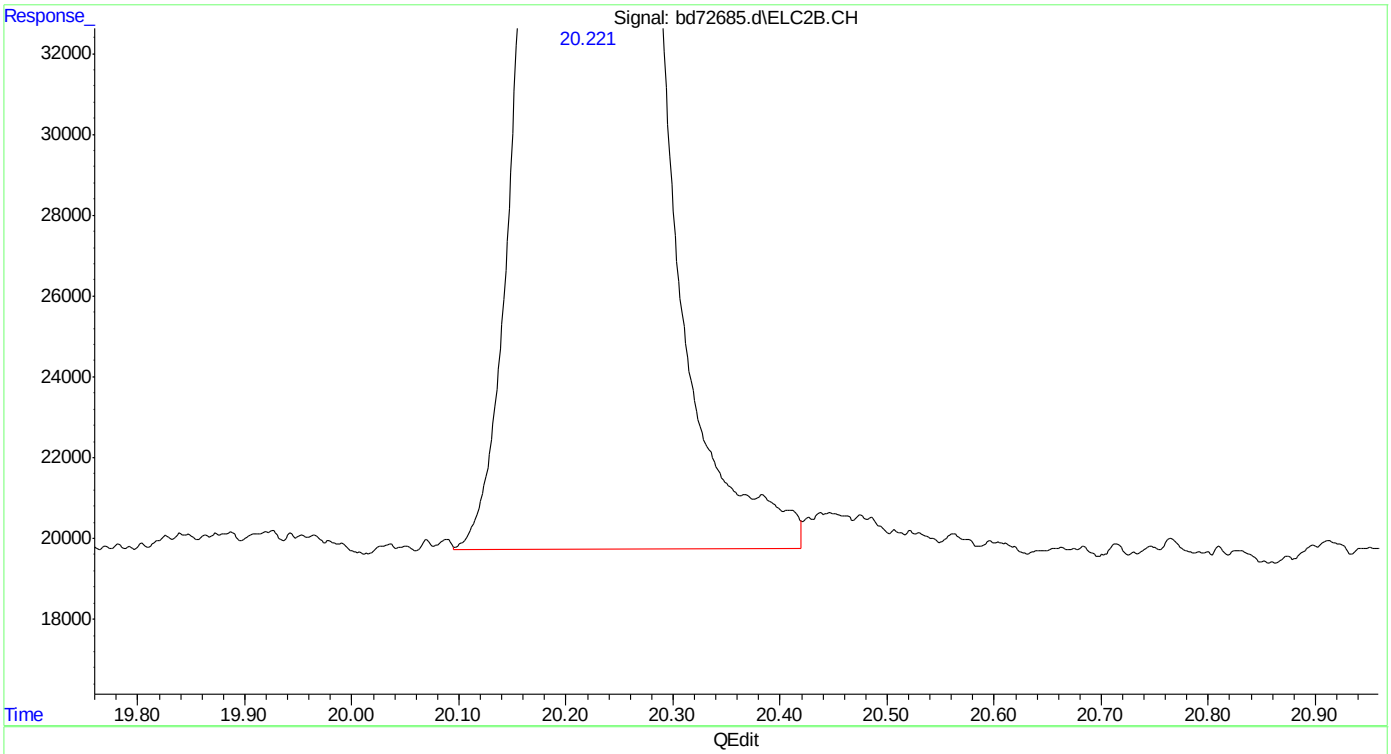
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
20.221min 9.485 ppb m
response 4279870

(+) = Expected Retention Time

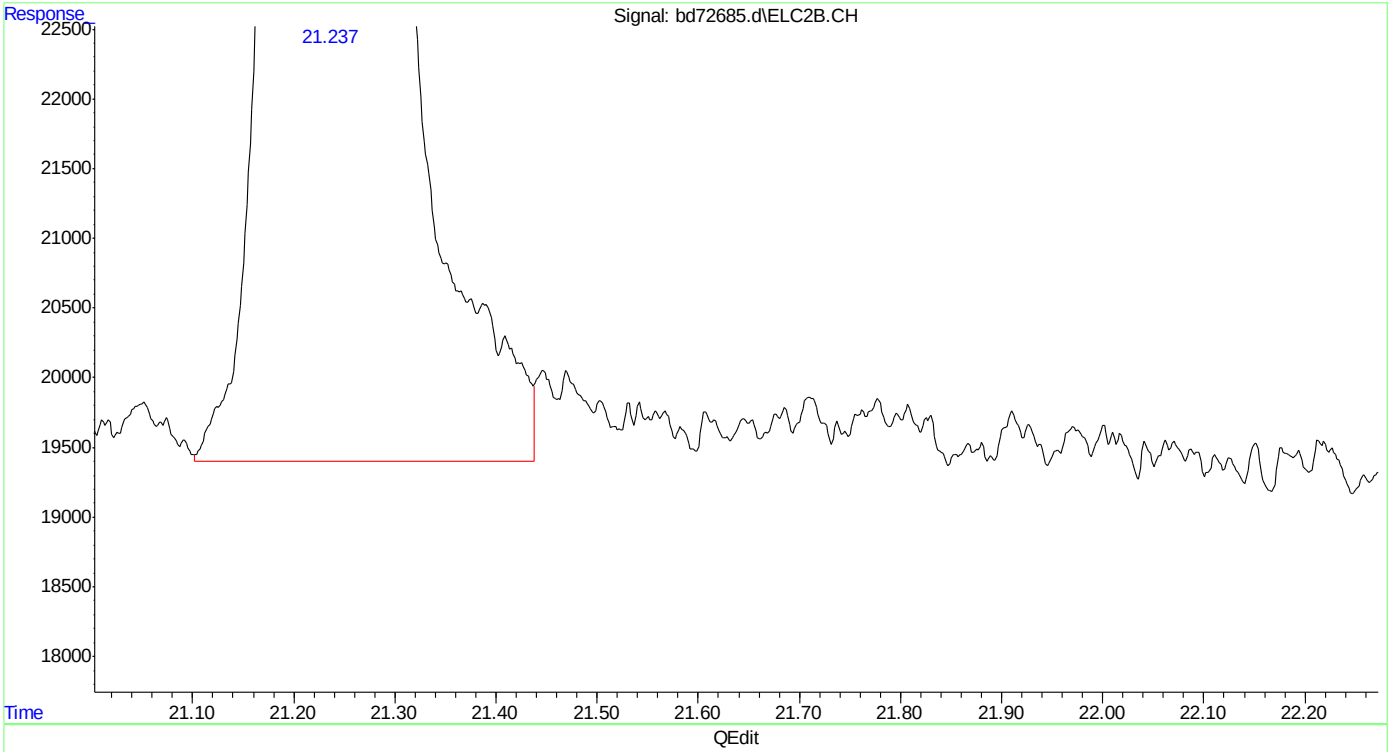
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(27) 2,3,4-trifluorotoluene #2 (s)
21.238min 12.193 ppb
response 2212042

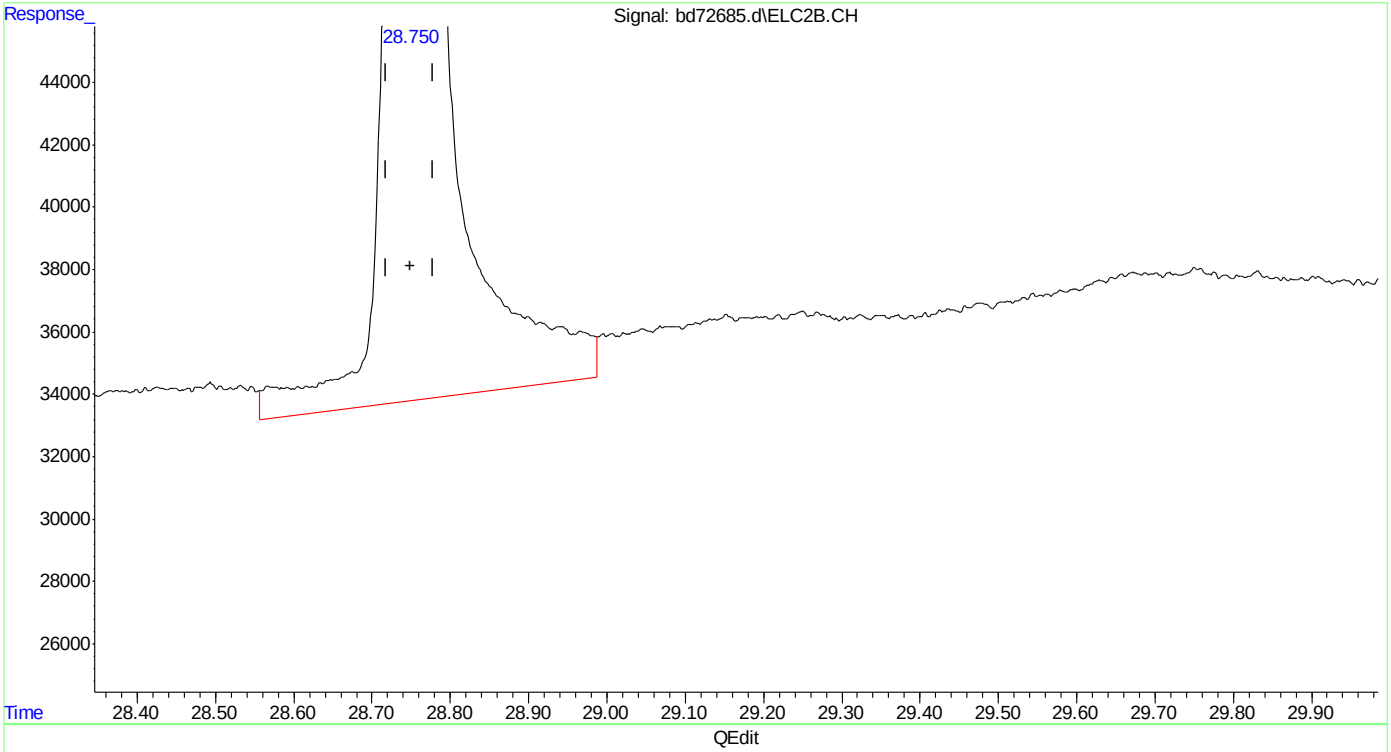
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:27:06 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.751min 8.157 ppb
response 3113386

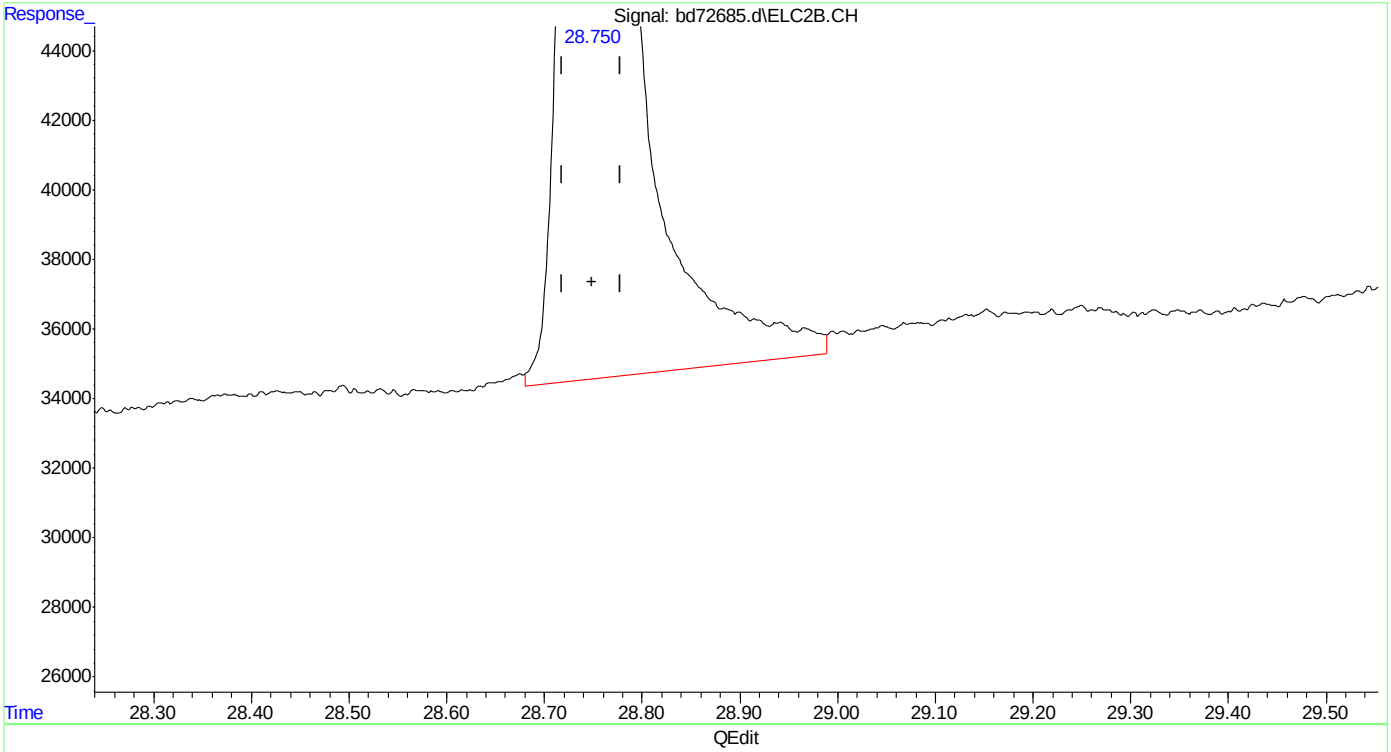
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:27:18 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.750min 7.611 ppb m
response 2905214

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:27:31 2016 Page: 1

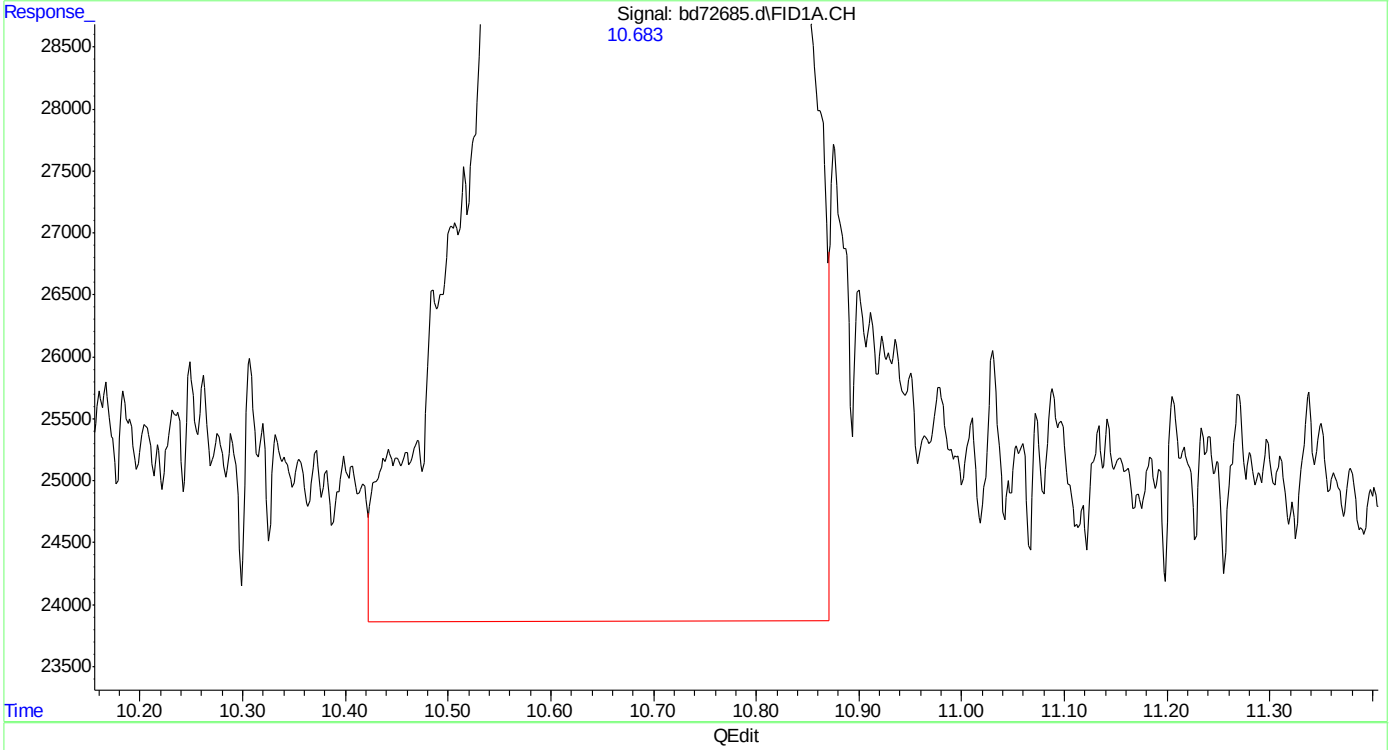
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
10.685min 10.259 ppb
response 3071017

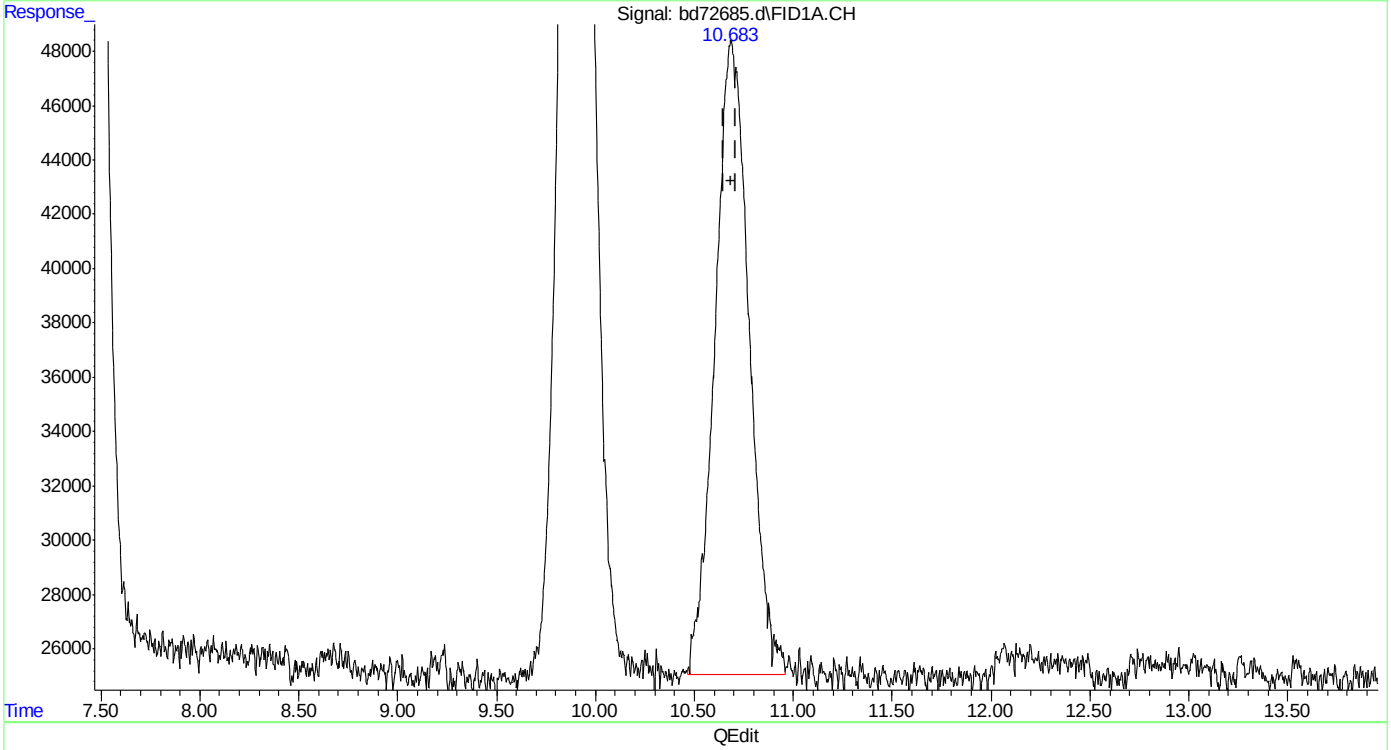
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:29:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
10.683min 9.395 ppb m
response 2812431

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:29:57 2016

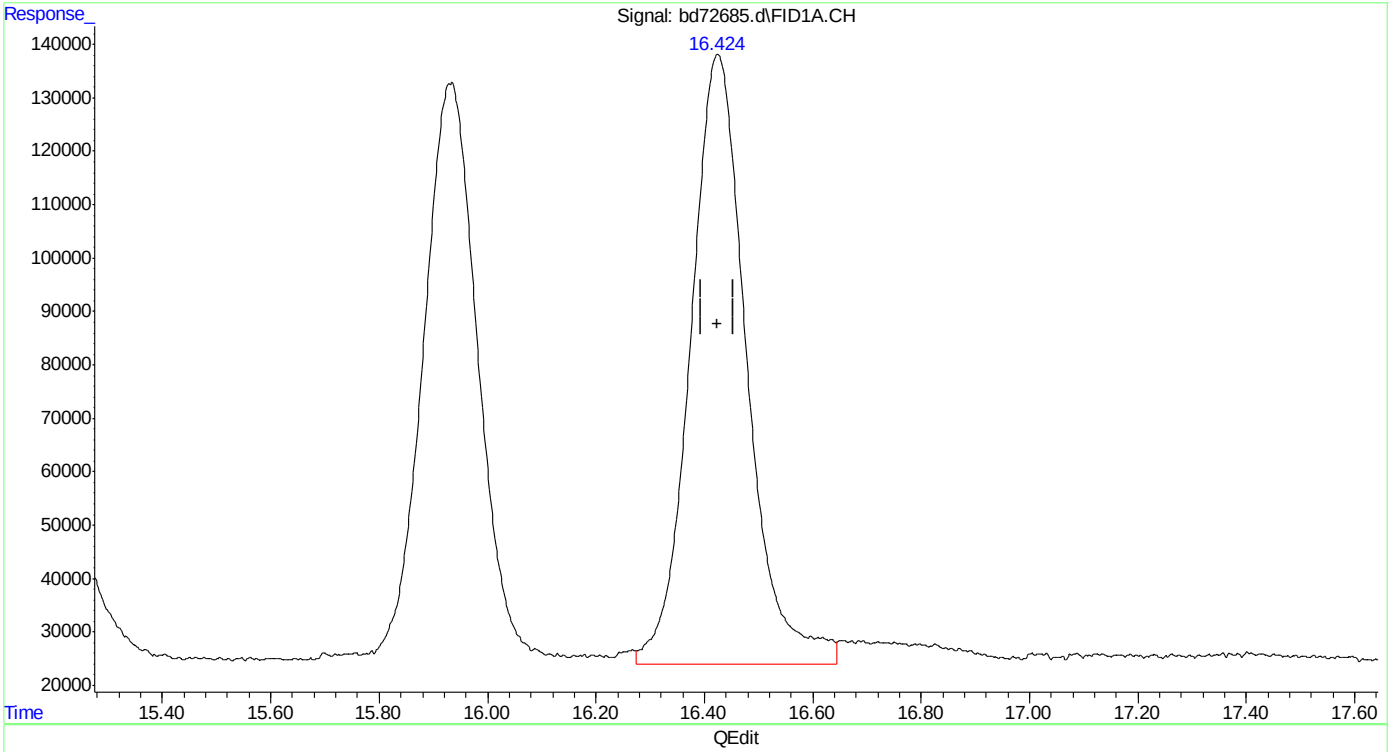
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 10:44:19
Operator  : tonyf
Sample    : ic3752-10
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(6) fluorobenzene (s)

16.425min 11.256 ppb

response 8237267

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 11:30:08 2016

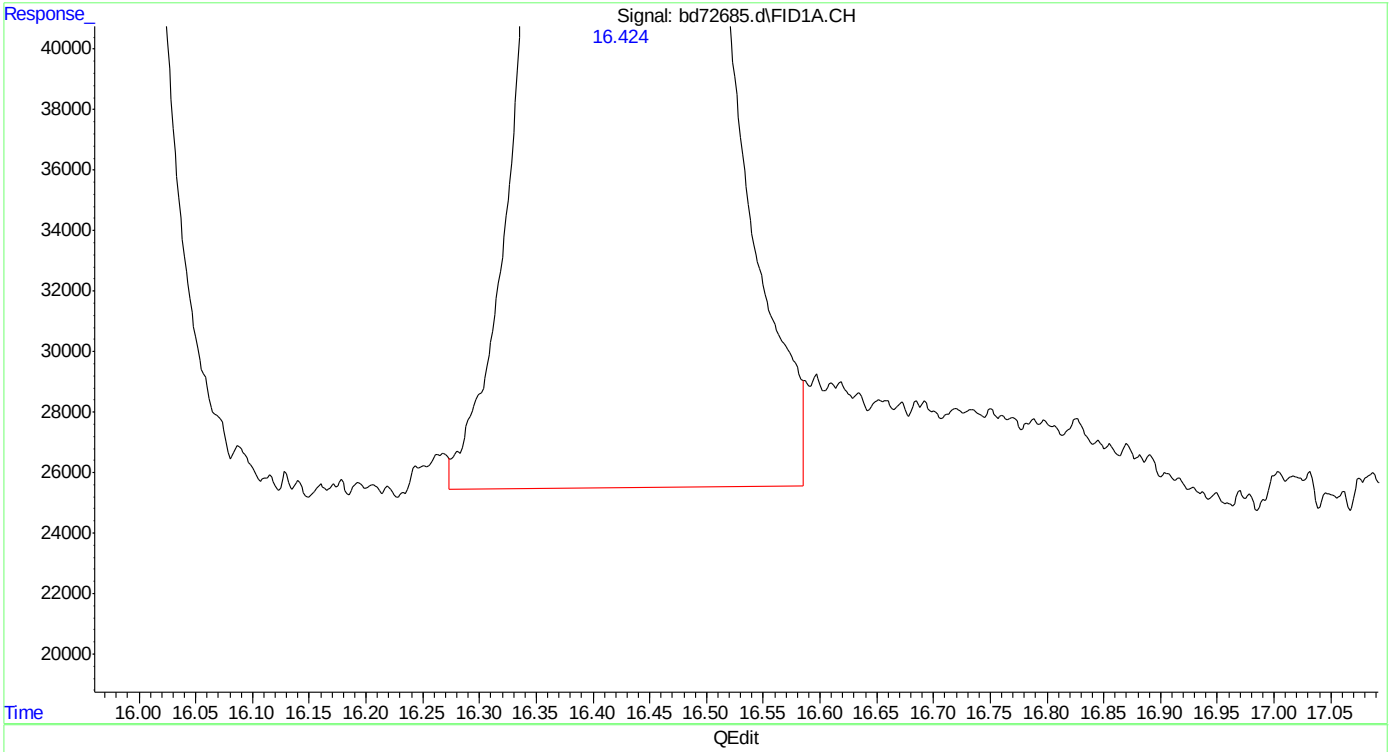
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) fluorobenzene (s)
16.424min 10.647 ppb m
response 7791413

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:15 2016

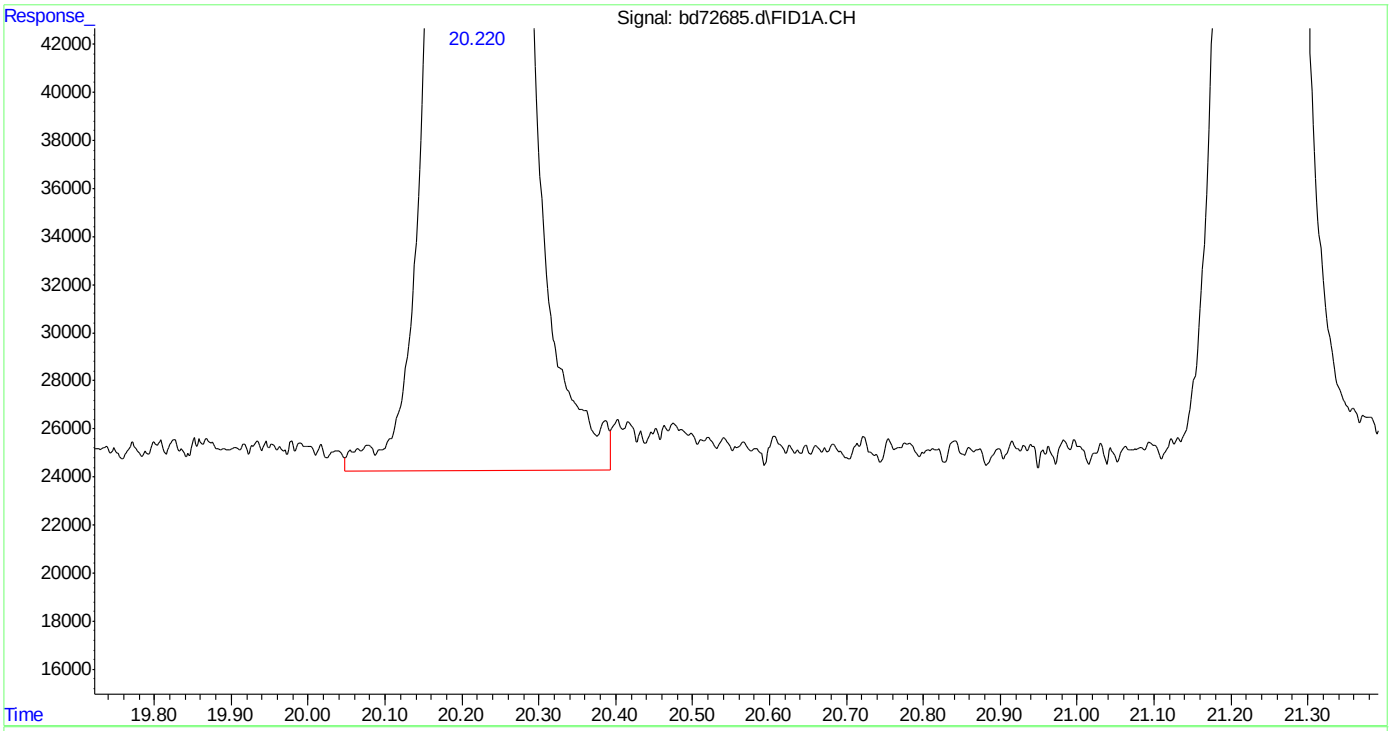
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
20.221min 9.495 ppb
response 7610241

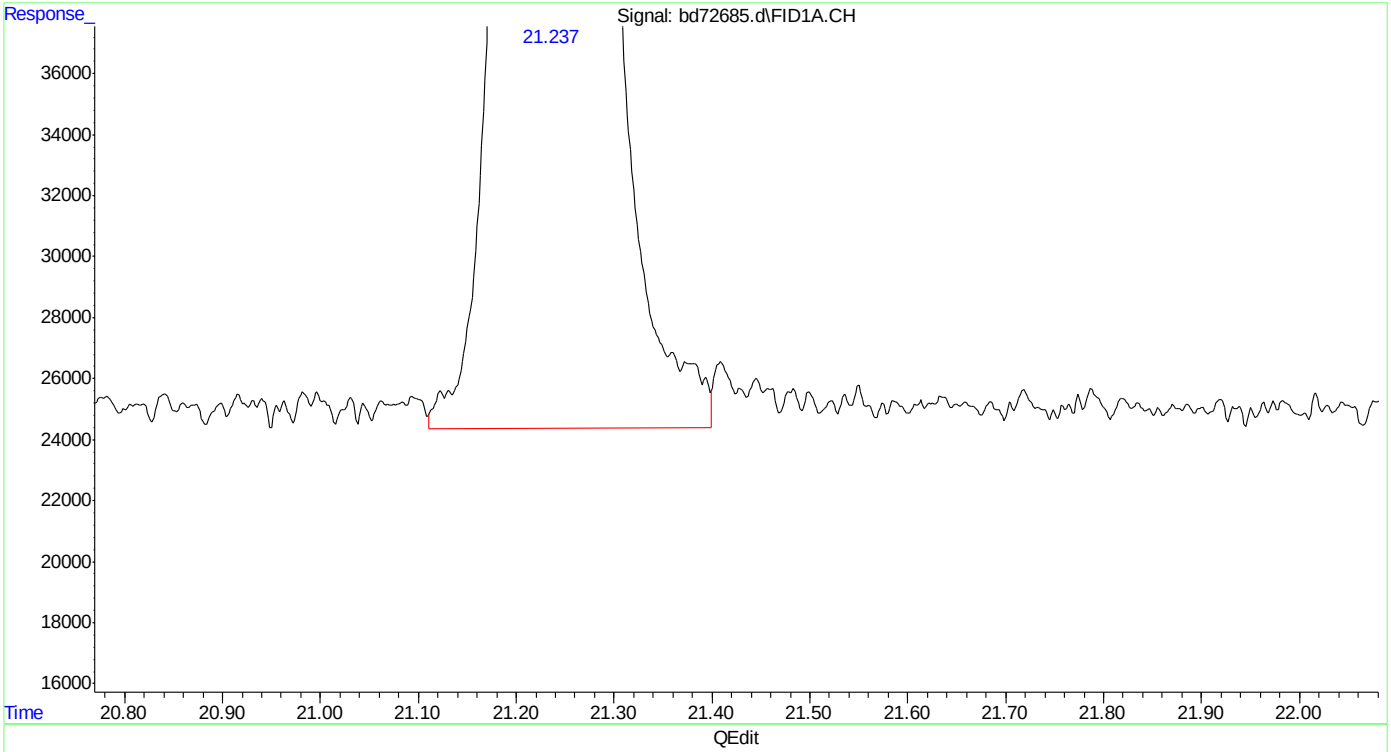
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:23 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(9) 2,3,4-trifluorotoluene (s)
21.238min 12.845 ppb
response 6002419

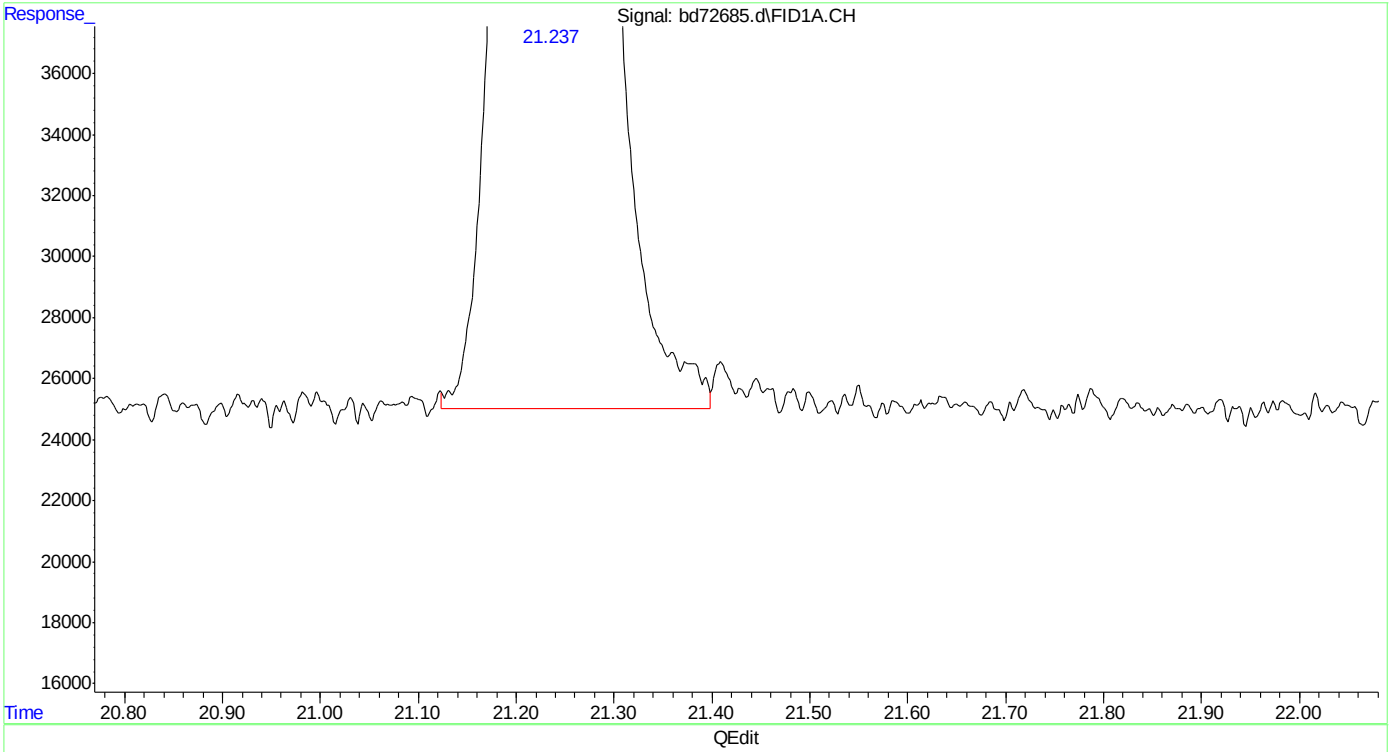
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:45 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(9) 2,3,4-trifluorotoluene (s)
21.237min 12.597 ppb m
response 5886759

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:51 2016

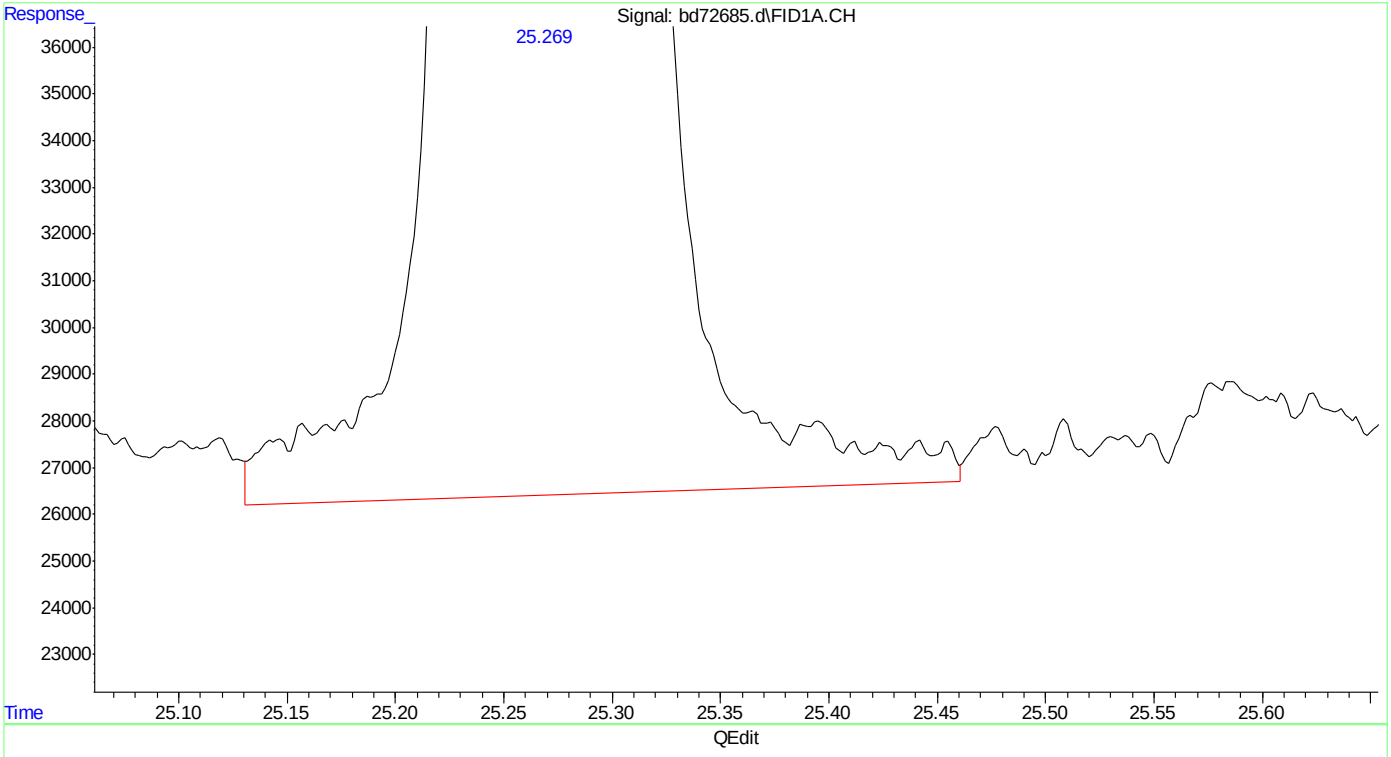
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) 1,3,5-trimethylbenzene (t)
25.270min 10.440 ppb
response 9966676

(+) = Expected Retention Time

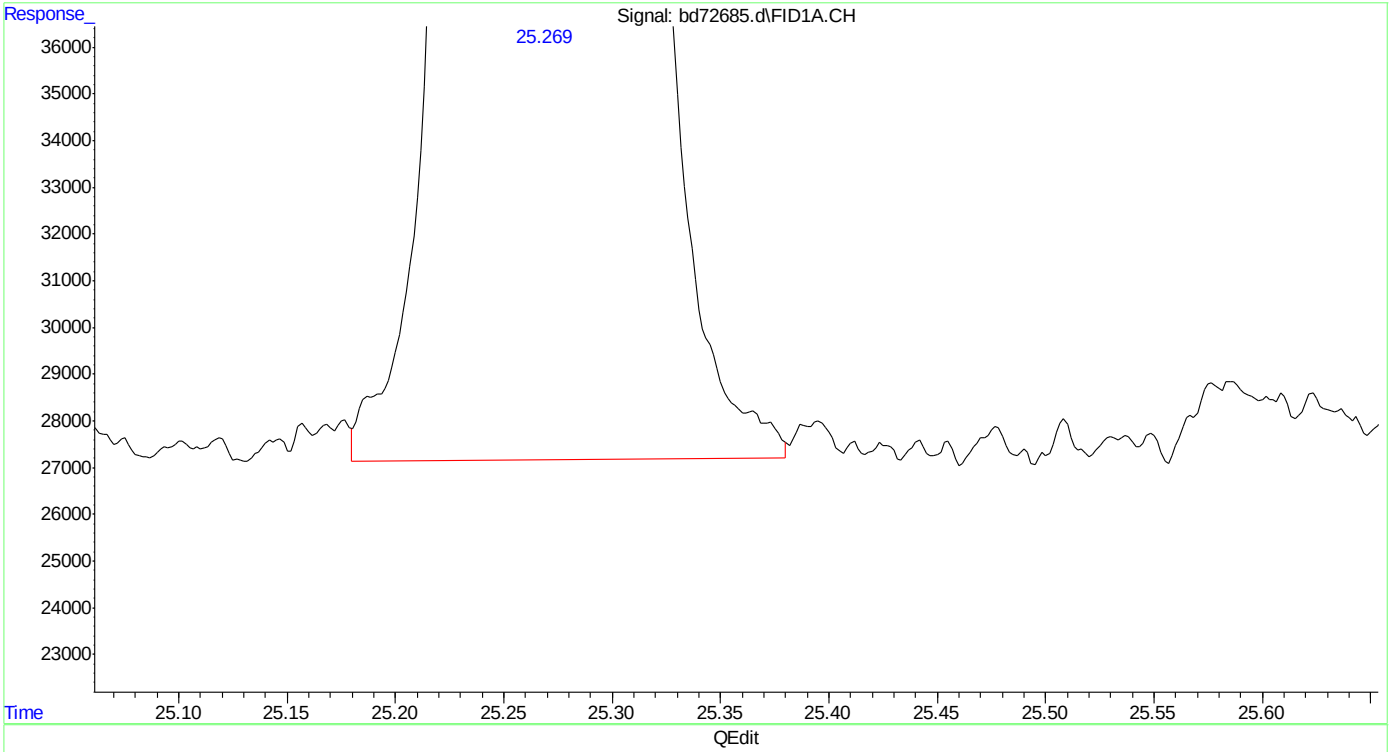
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) 1,3,5-trimethylbenzene (t)
25.269min 10.261 ppb m
response 9795606

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:31:28 2016

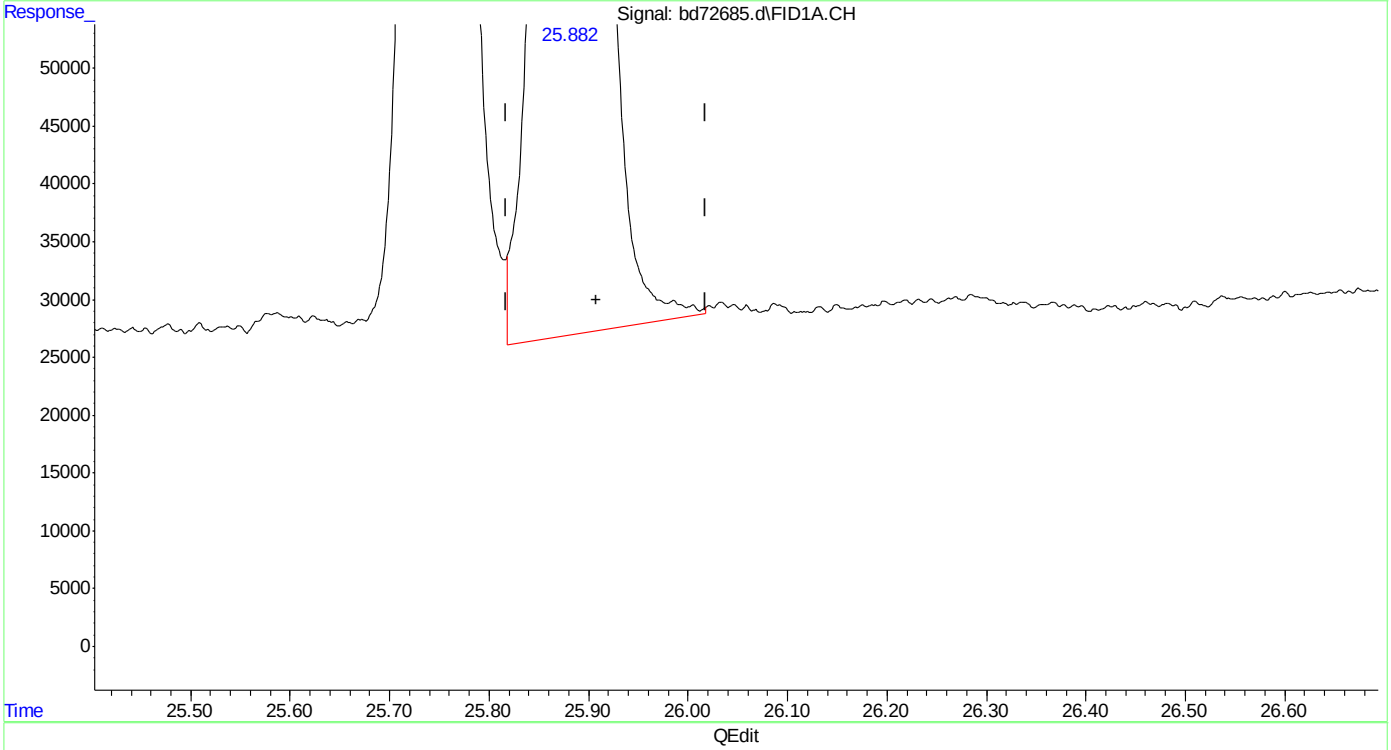
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) butylcyclohexane (h)
25.908min 10.734 ppb
response 9402228

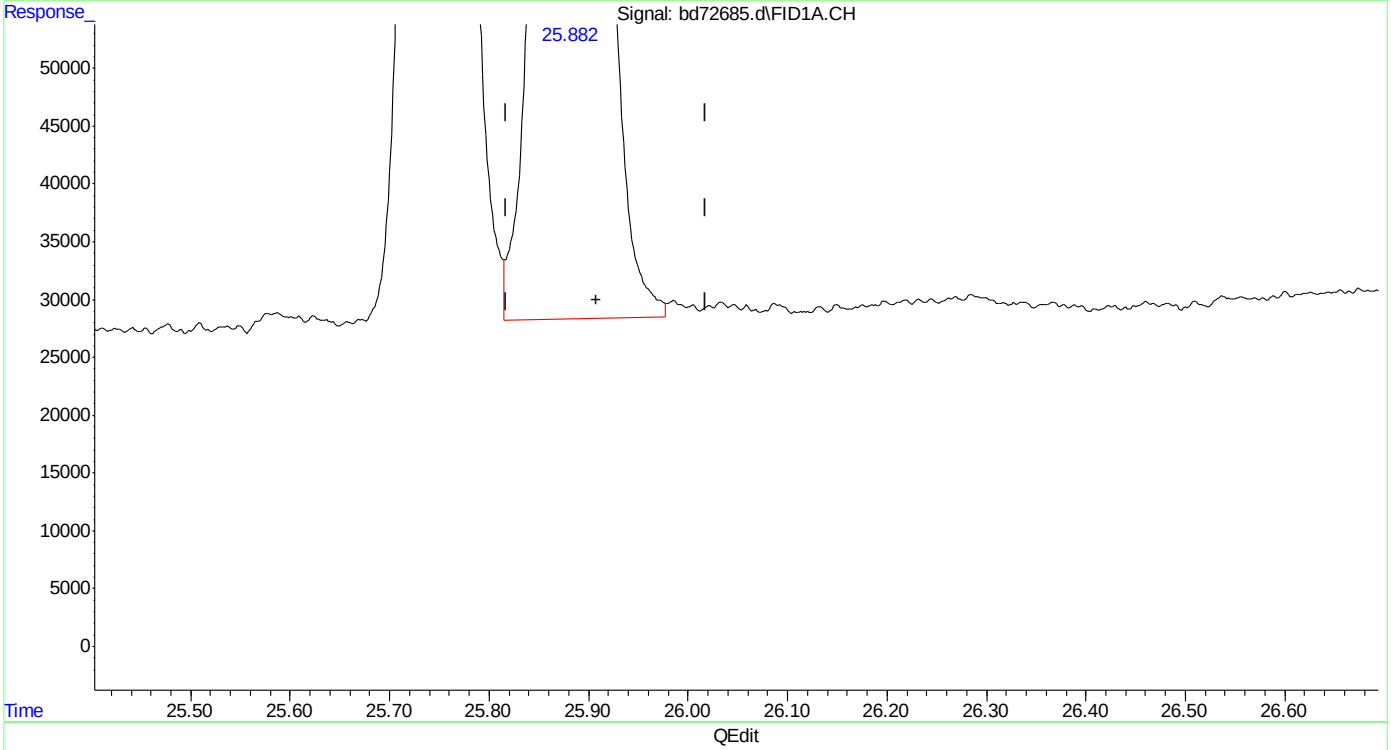
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:31:35 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) butylcyclohexane (h)
25.908min 10.586 ppb m
response 9272961

(+) = Expected Retention Time

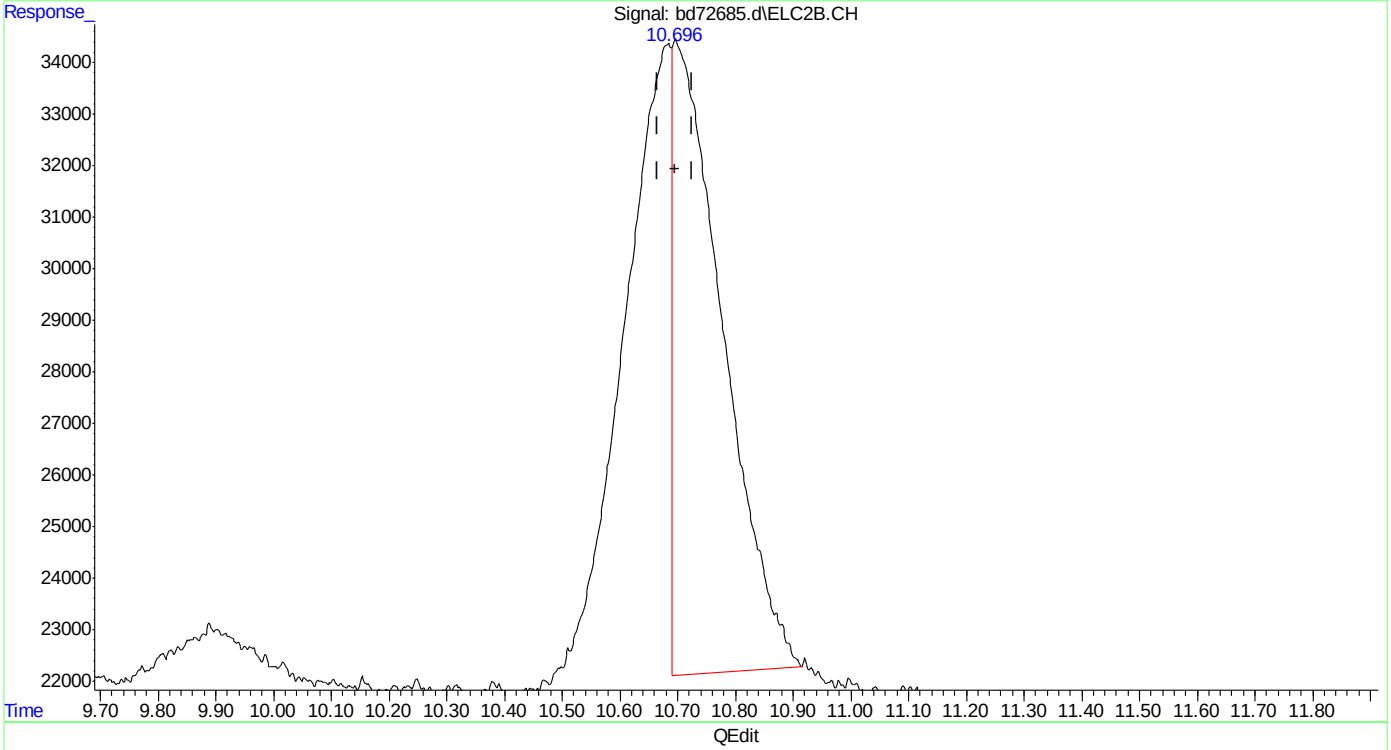
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.696min 4.730 ppb
response 748697

(+) = Expected Retention Time

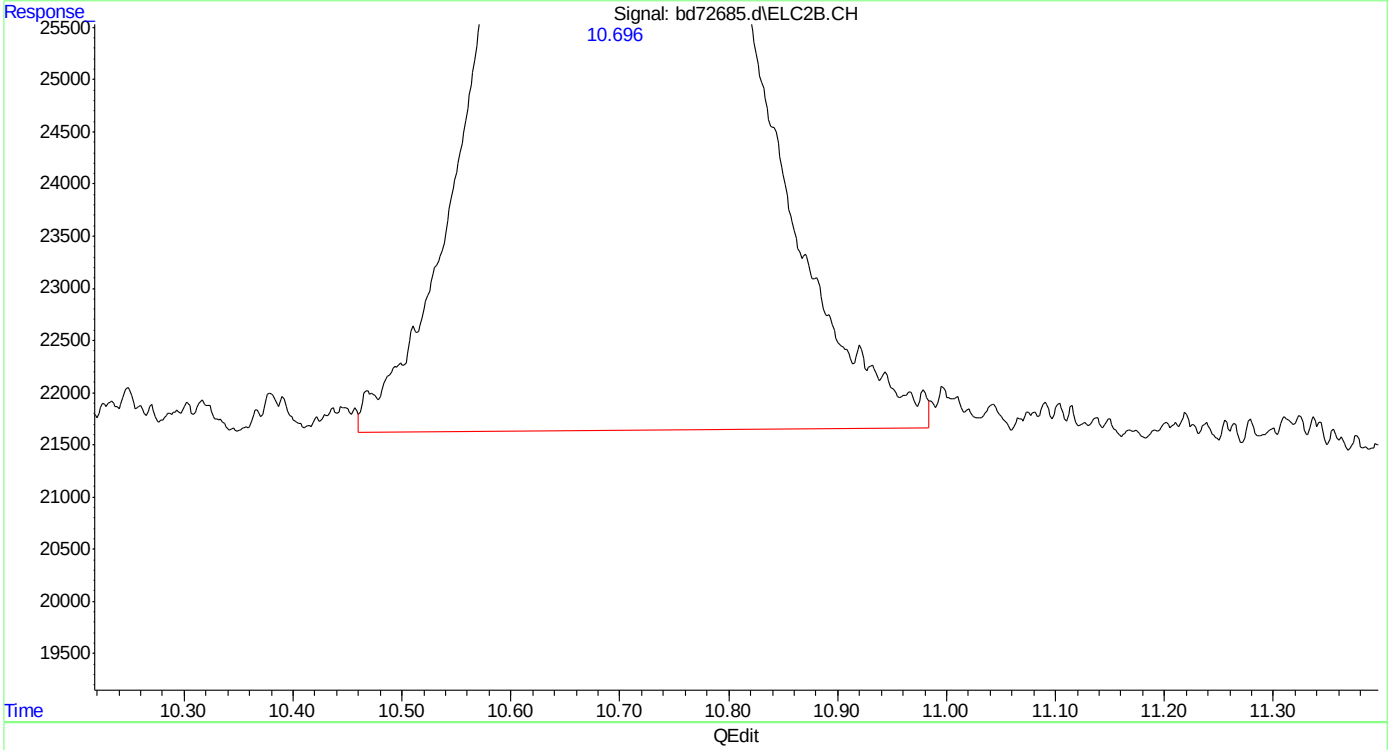
SGS ACCUTEST MC45897
7.5.6.31
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.696min 9.932 ppb m
response 1572288

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:01 2016

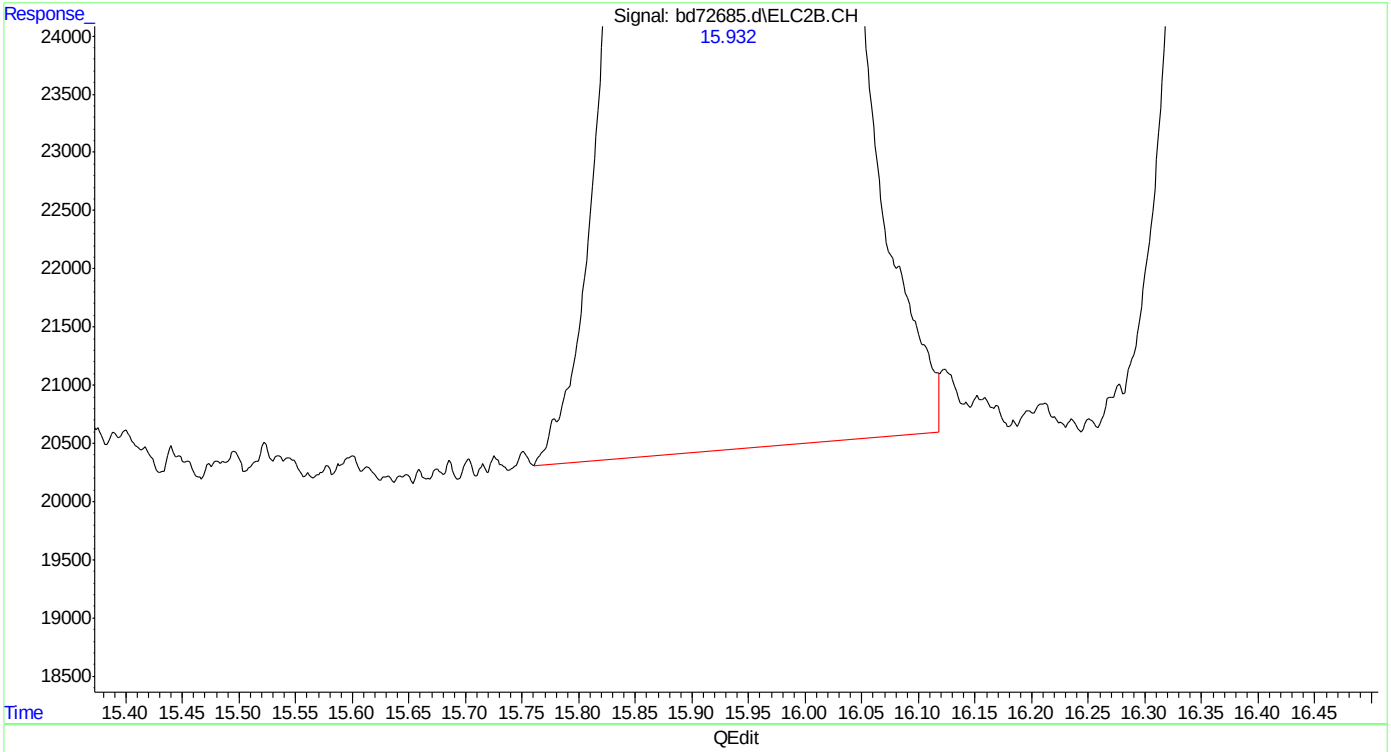
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) benzene #2
15.932min 9.656 ppb
response 4569131

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:06 2016

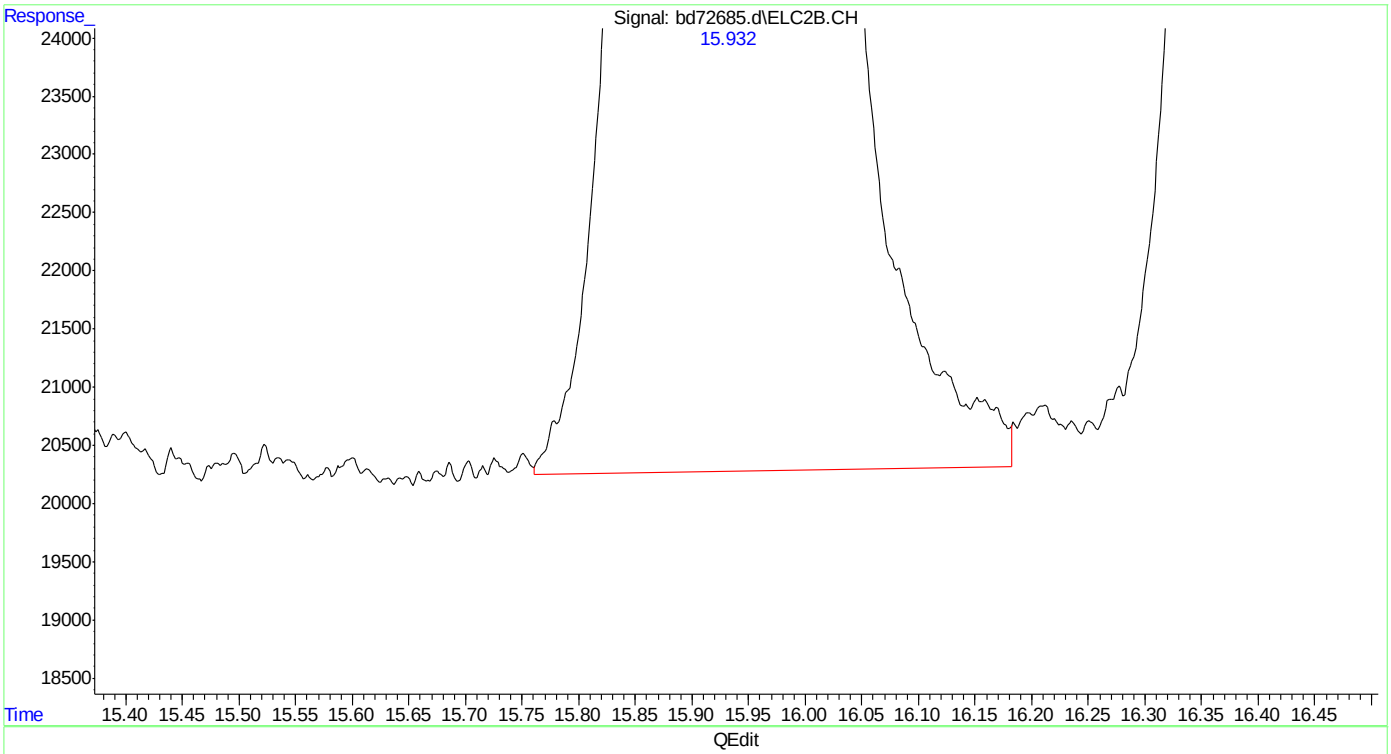
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) benzene #2
15.932min 9.782 ppb m
response 4628504

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:12 2016

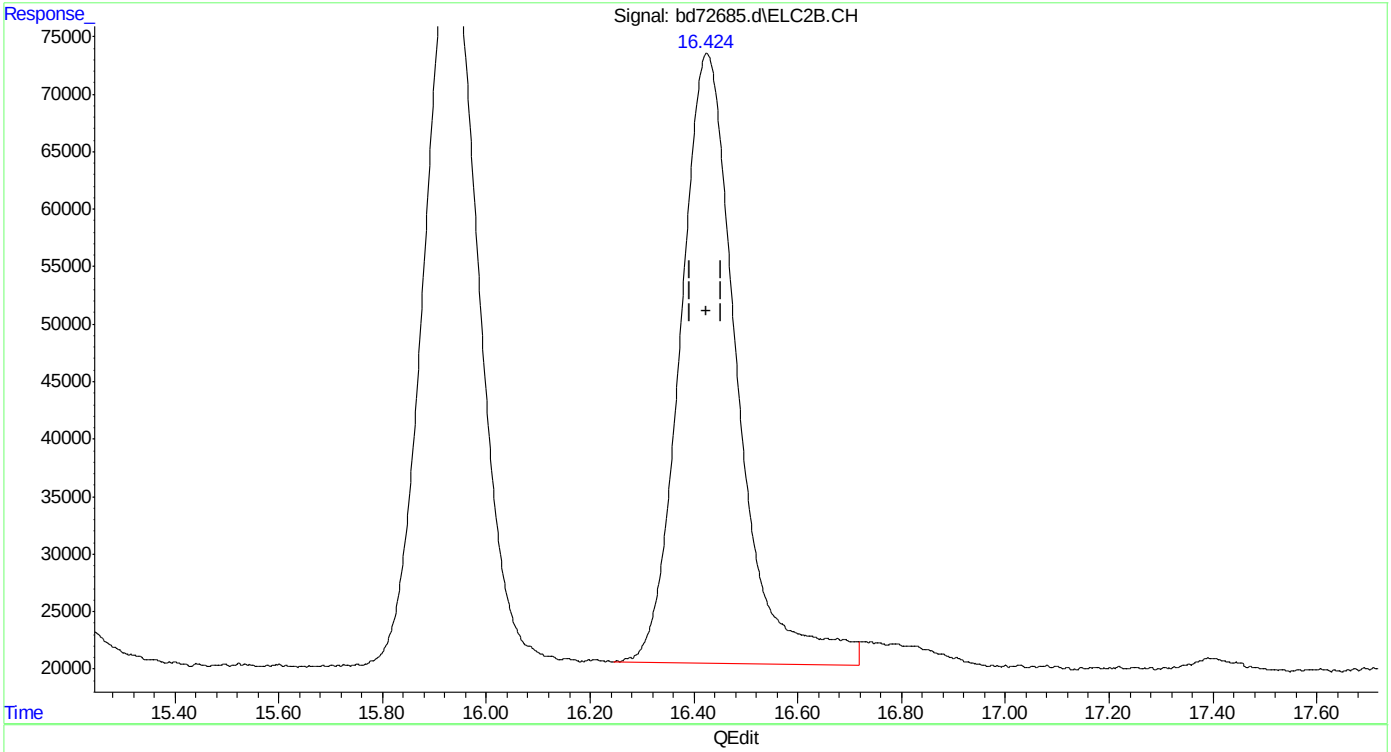
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
16.425min 11.598 ppb
response 4046516

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:15 2016

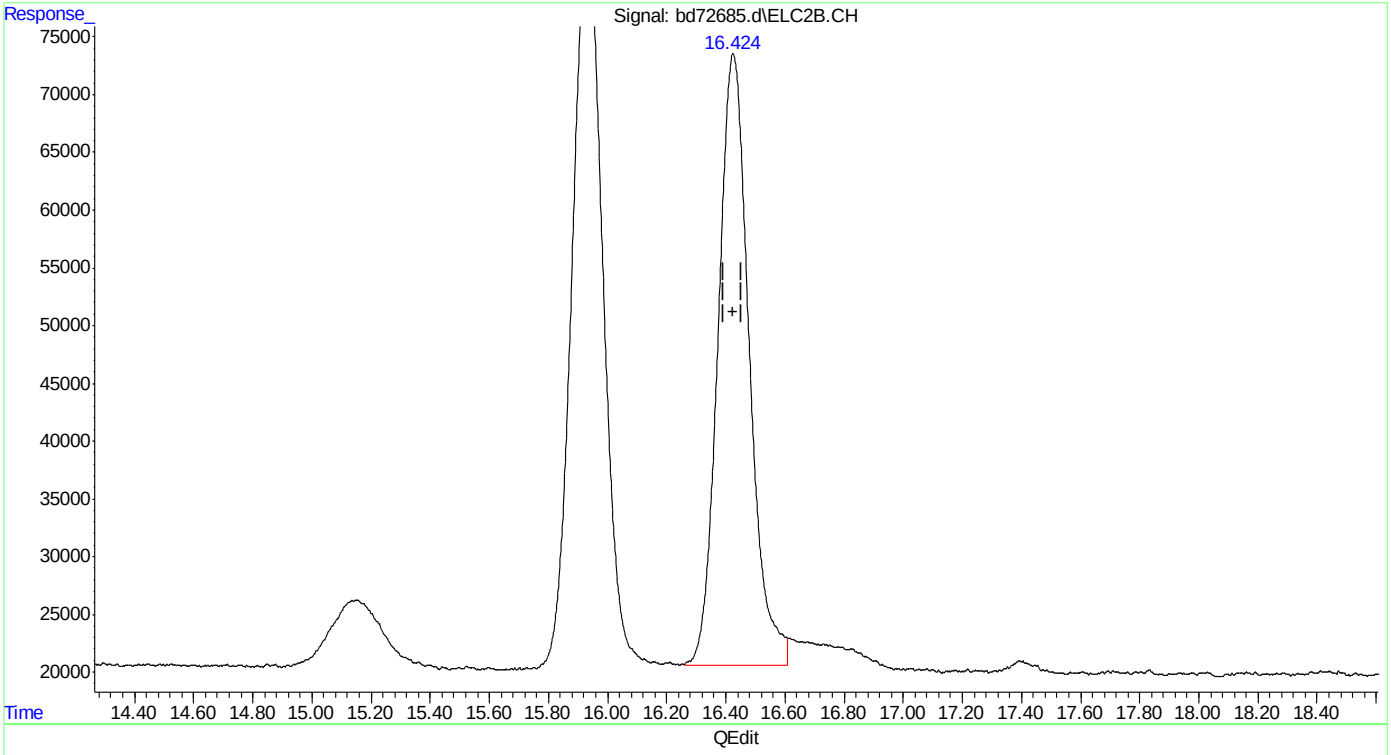
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
16.424min 11.091 ppb m
response 3869749

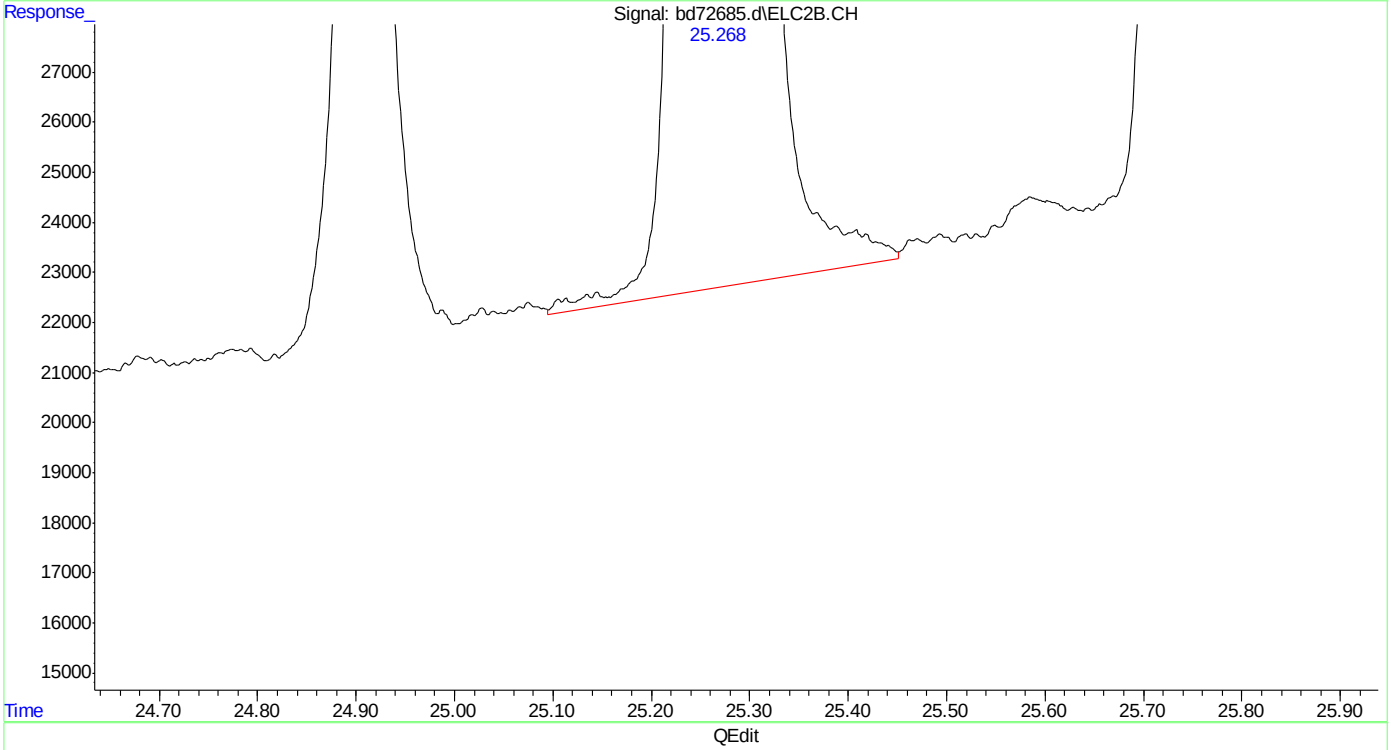
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:23 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(31) 1,3,5-trimethylbenzene #2 (t)
25.269min 10.227 ppb
response 6637163

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:49 2016

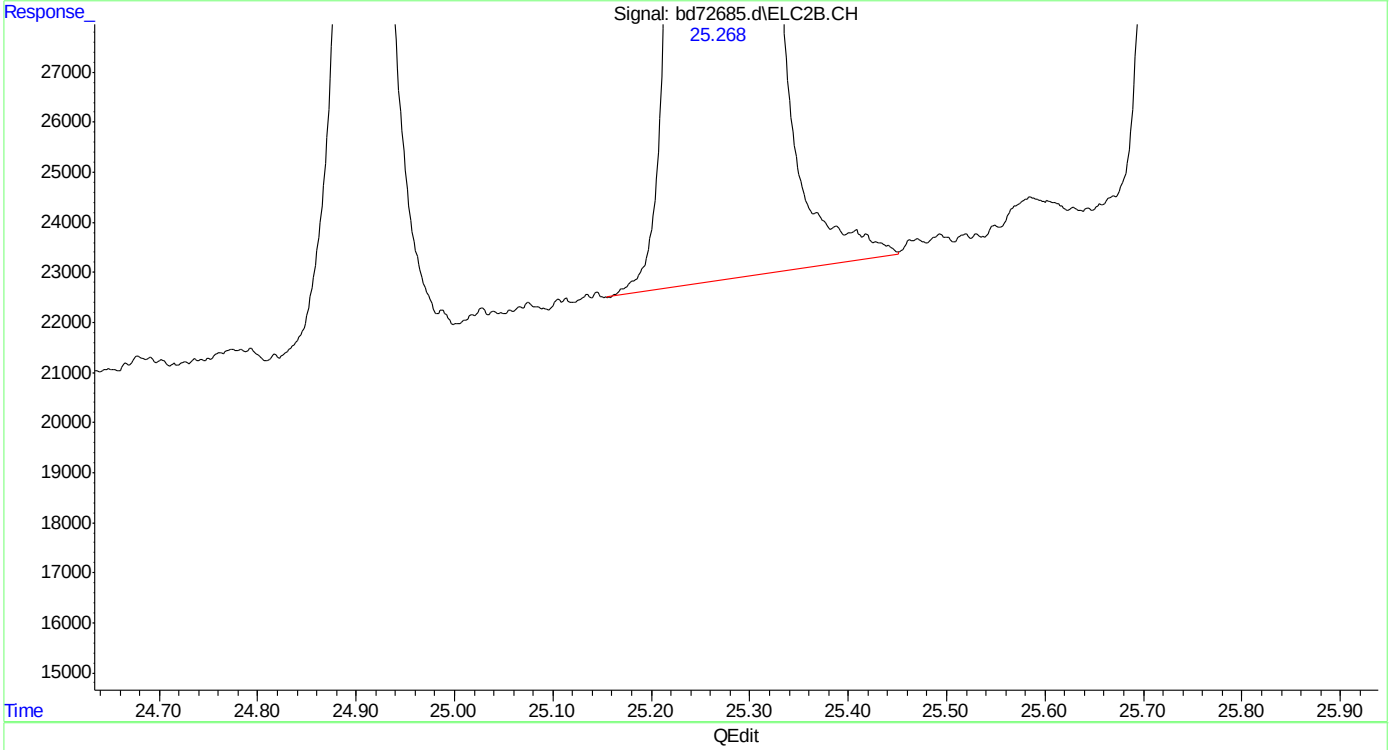
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(31) 1,3,5-trimethylbenzene #2 (t)
25.268min 10.179 ppb m
response 6606232

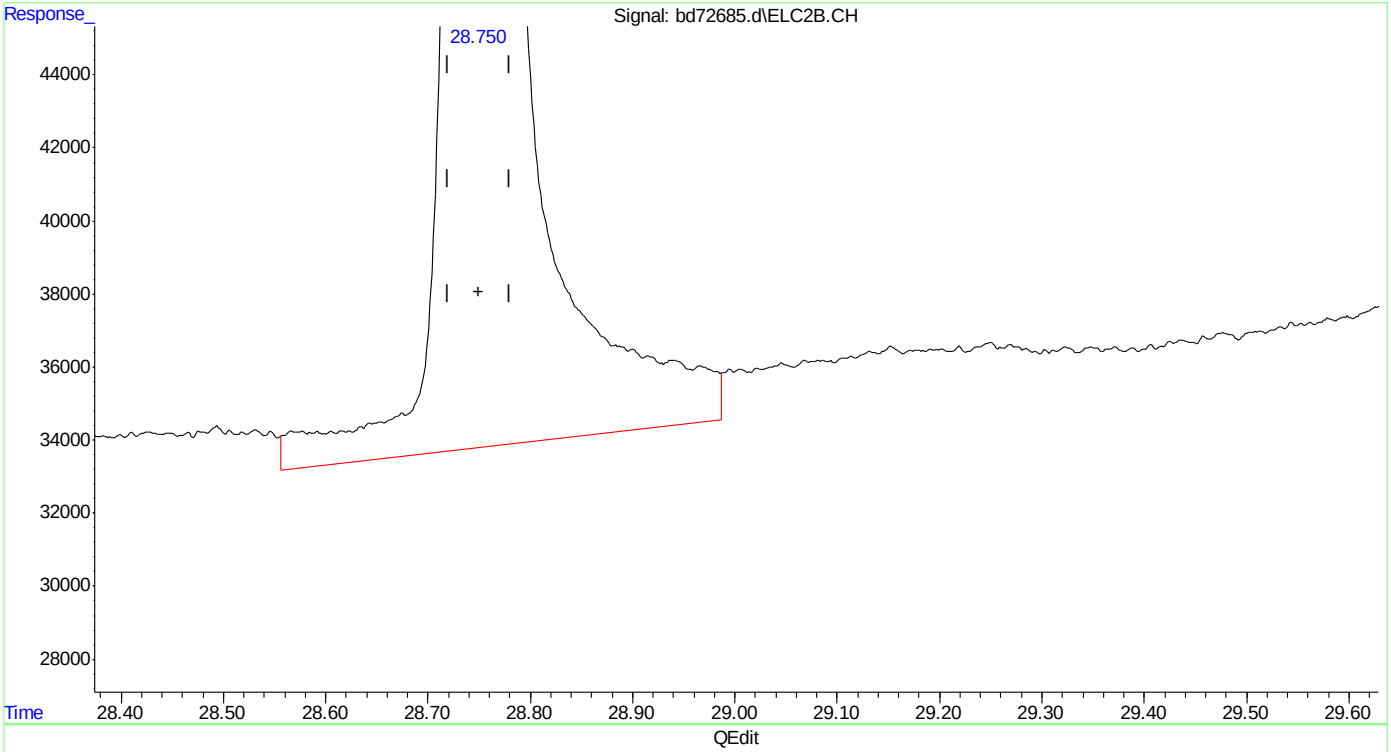
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:55 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 10:44:19
Operator  : tonyf
Sample    : ic3752-10
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(33) naphthalene #2

28.751min 9.263 ppb

response 3113386

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 11:33:21 2016

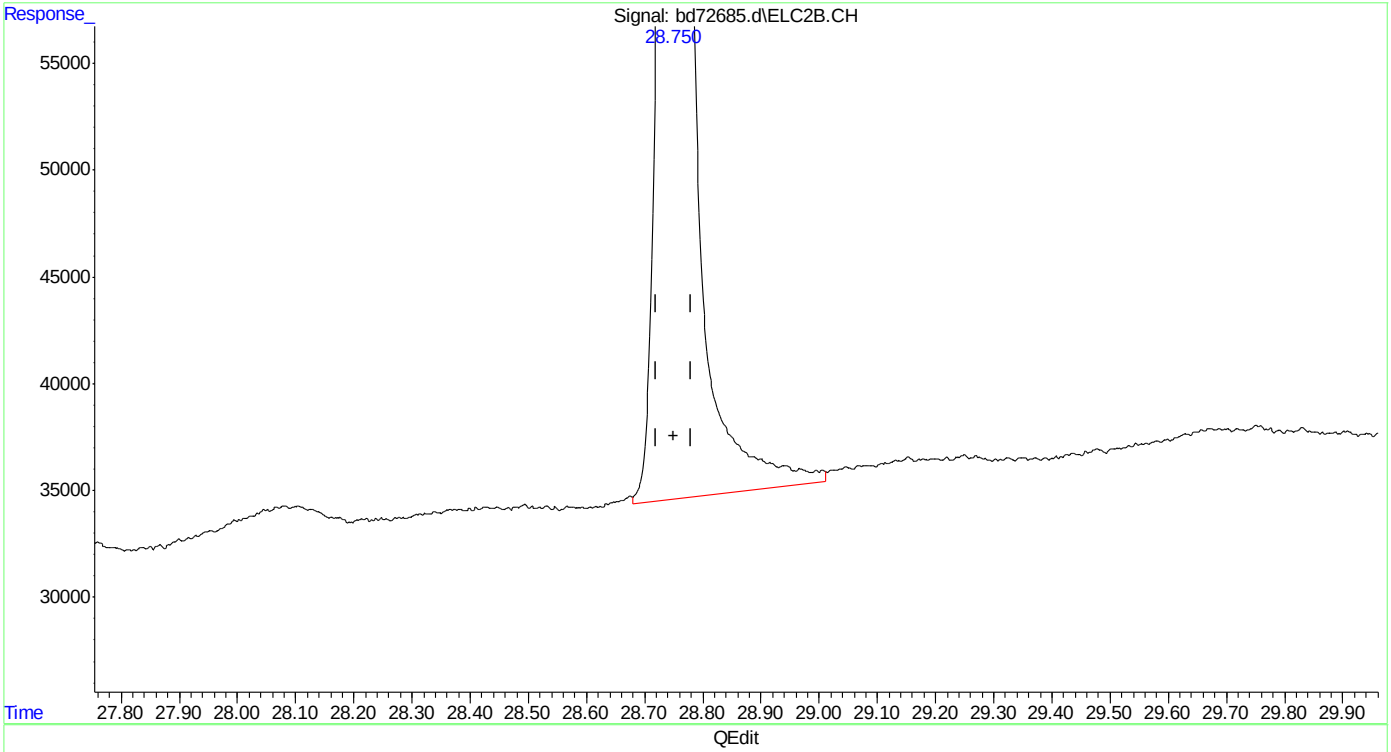
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.750min 8.644 ppb m
response 2905228

(+) = Expected Retention Time

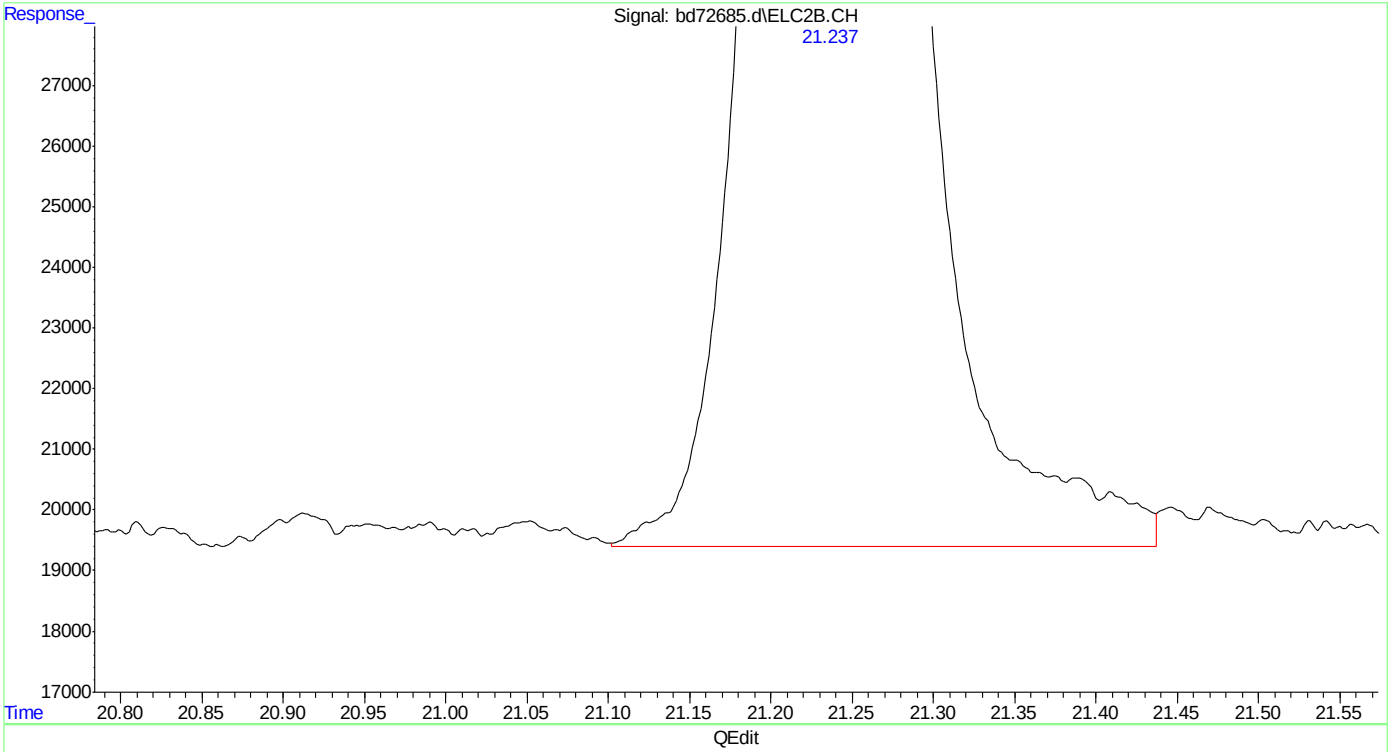
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(27) 2,3,4-trifluorotoluene #2 (s)
21.238min 10.735 ppb
response 2212042

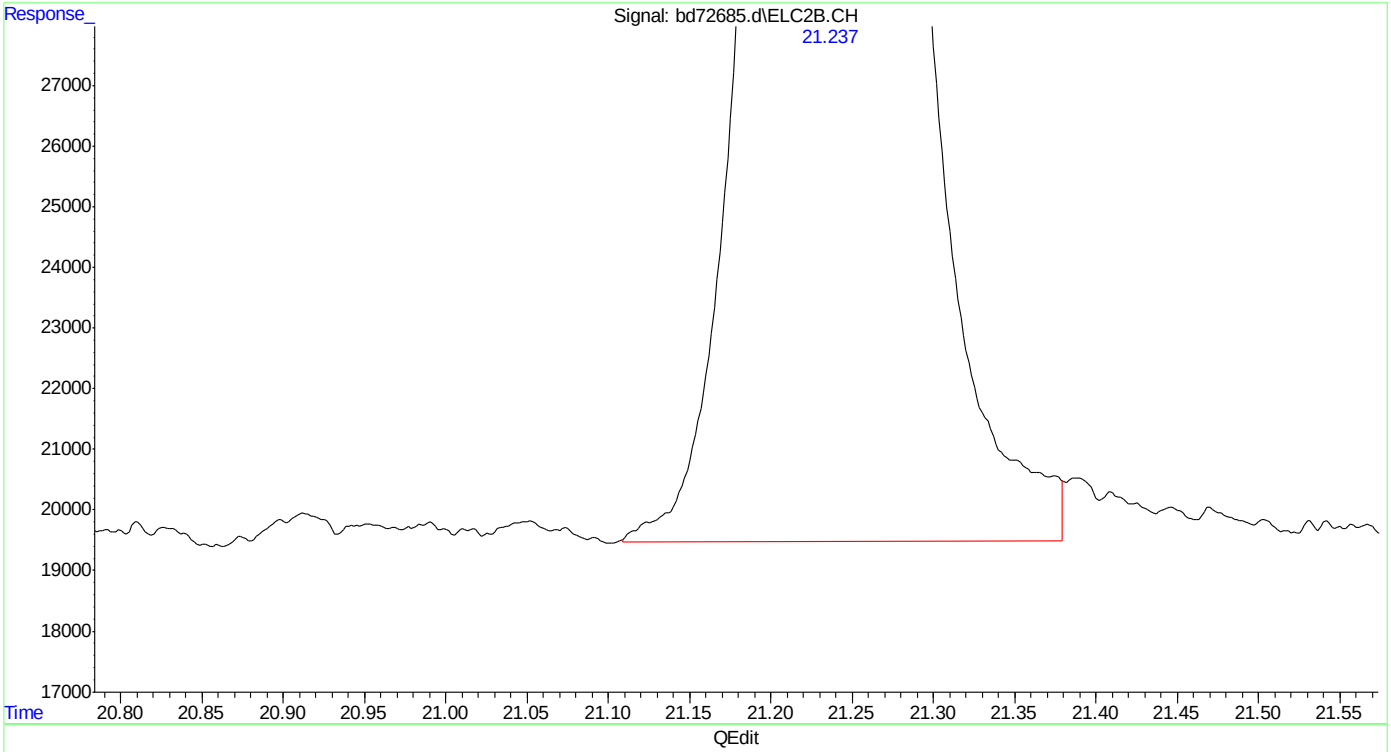
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:11 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(27) 2,3,4-trifluorotoluene #2 (s)
21.237min 10.531 ppb m
response 2170174

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:16 2016

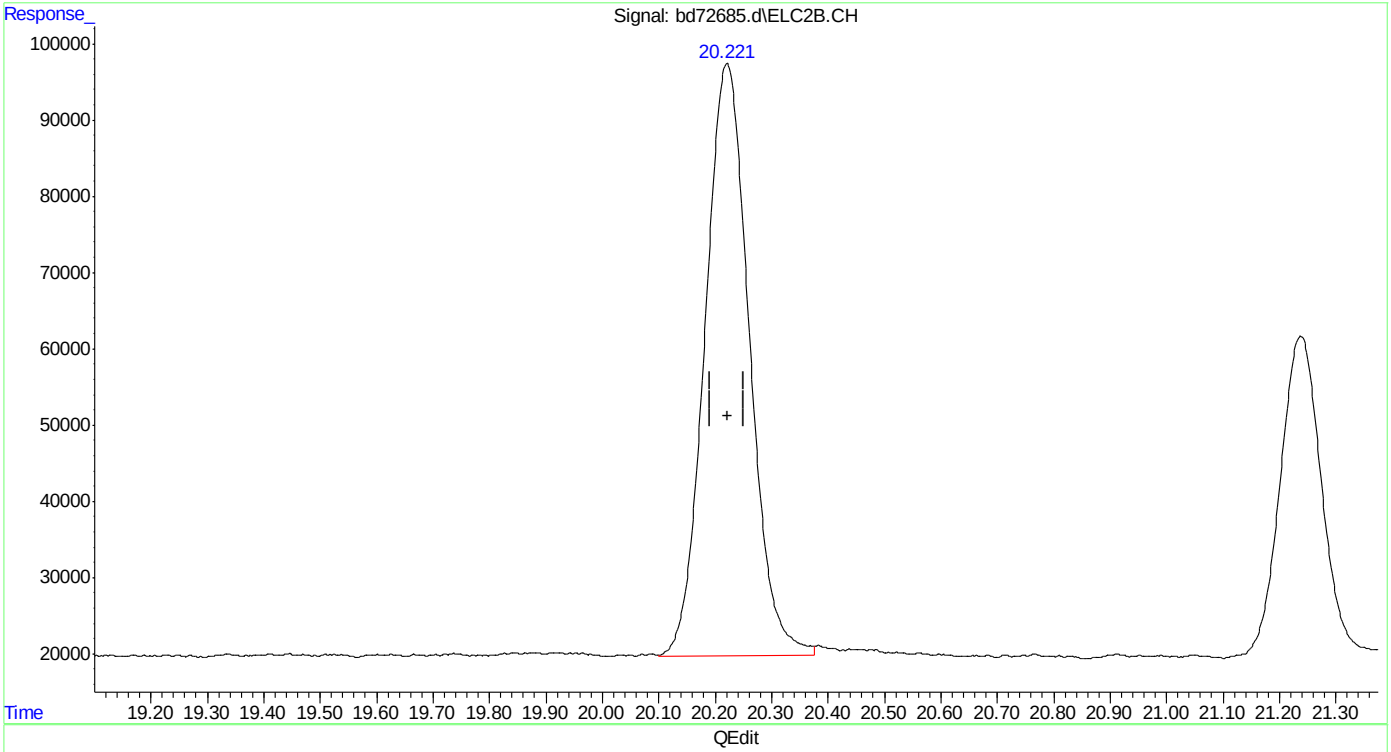
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
20.221min 9.801 ppb m
response 4236945

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:20 2016

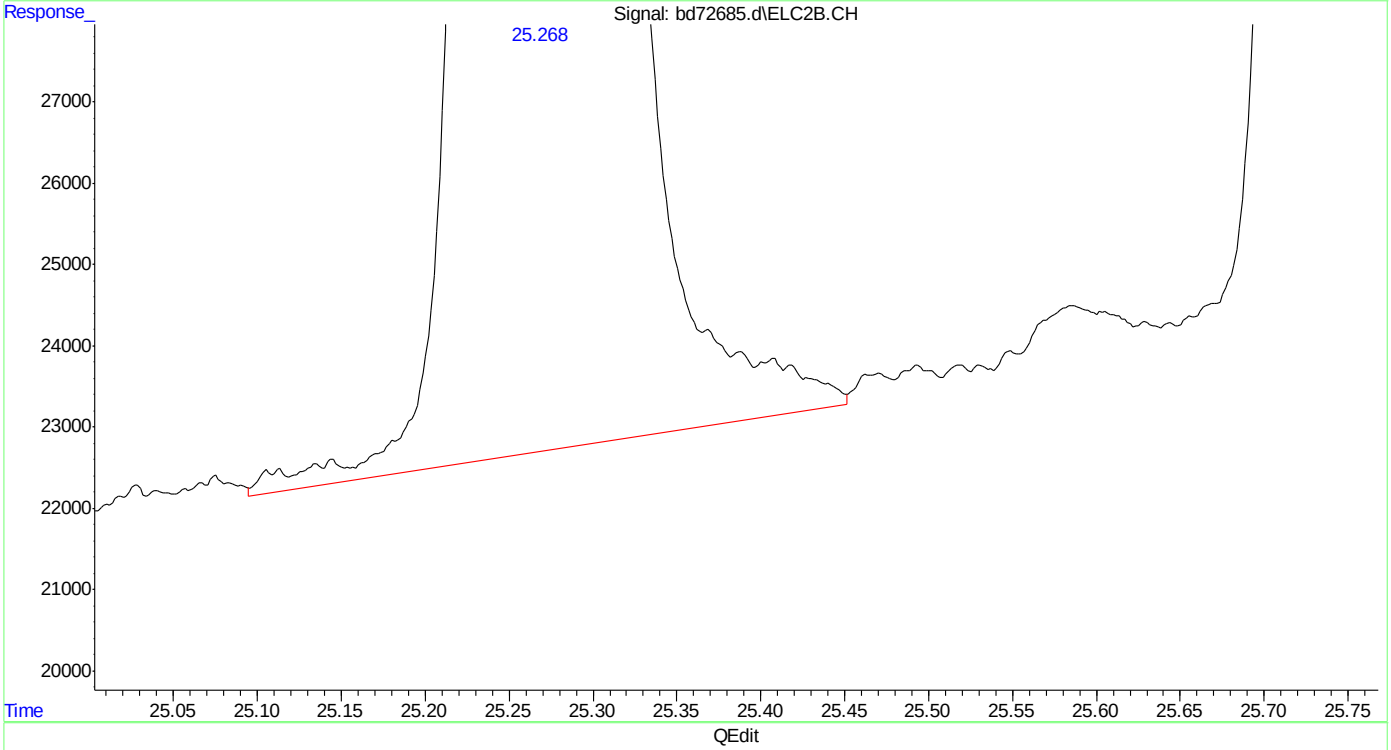
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(31) 1,3,5-trimethylbenzene #2 (t)
25.269min 10.123 ppb
response 6637163

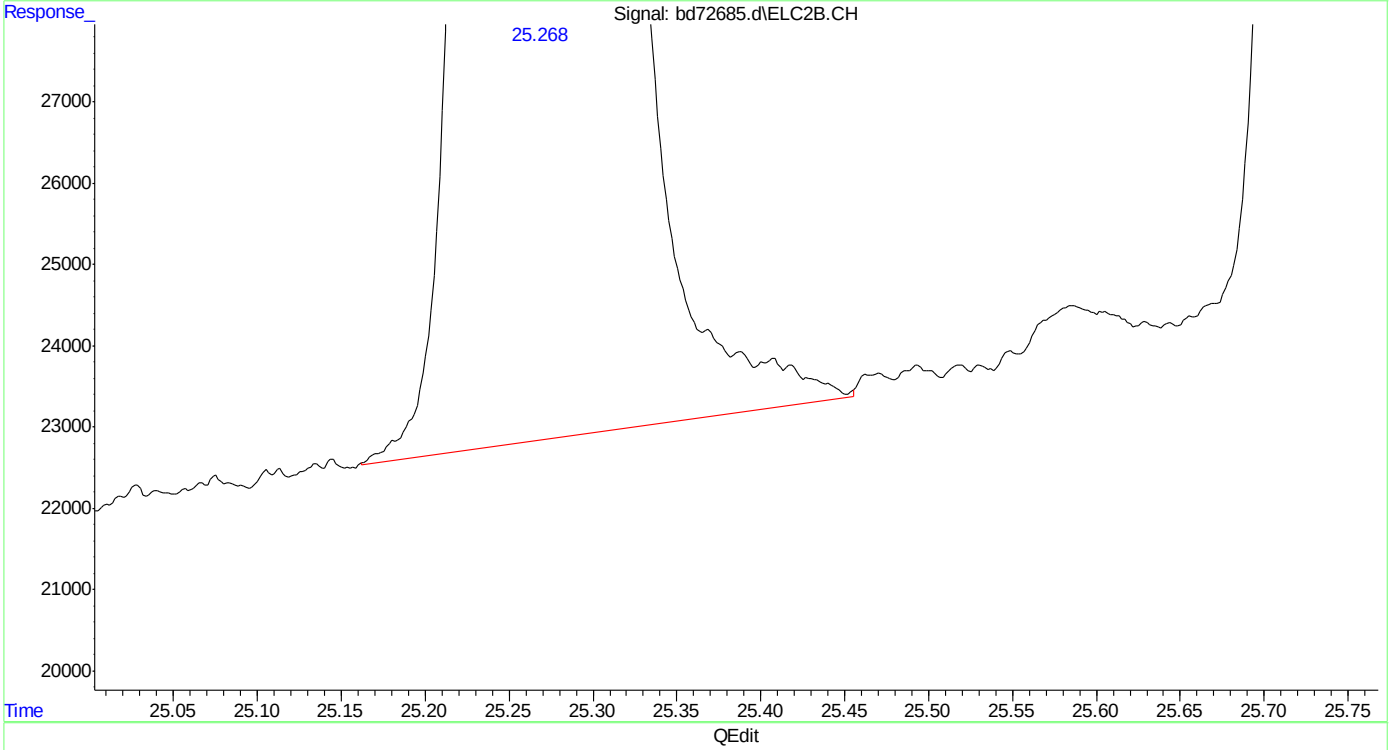
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(31) 1,3,5-trimethylbenzene #2 (t)
25.268min 10.076 ppb m
response 6605929

(+) = Expected Retention Time

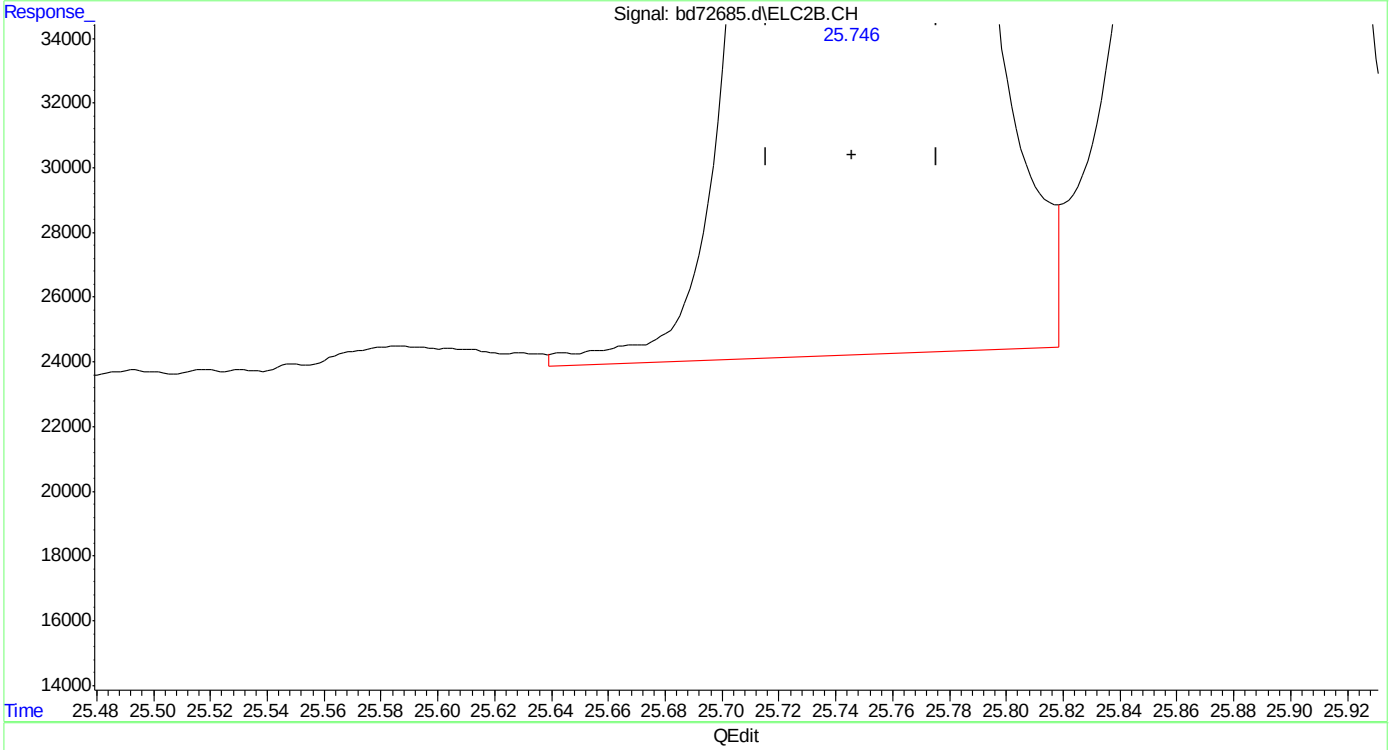
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.747min 9.849 ppb
response 4534824

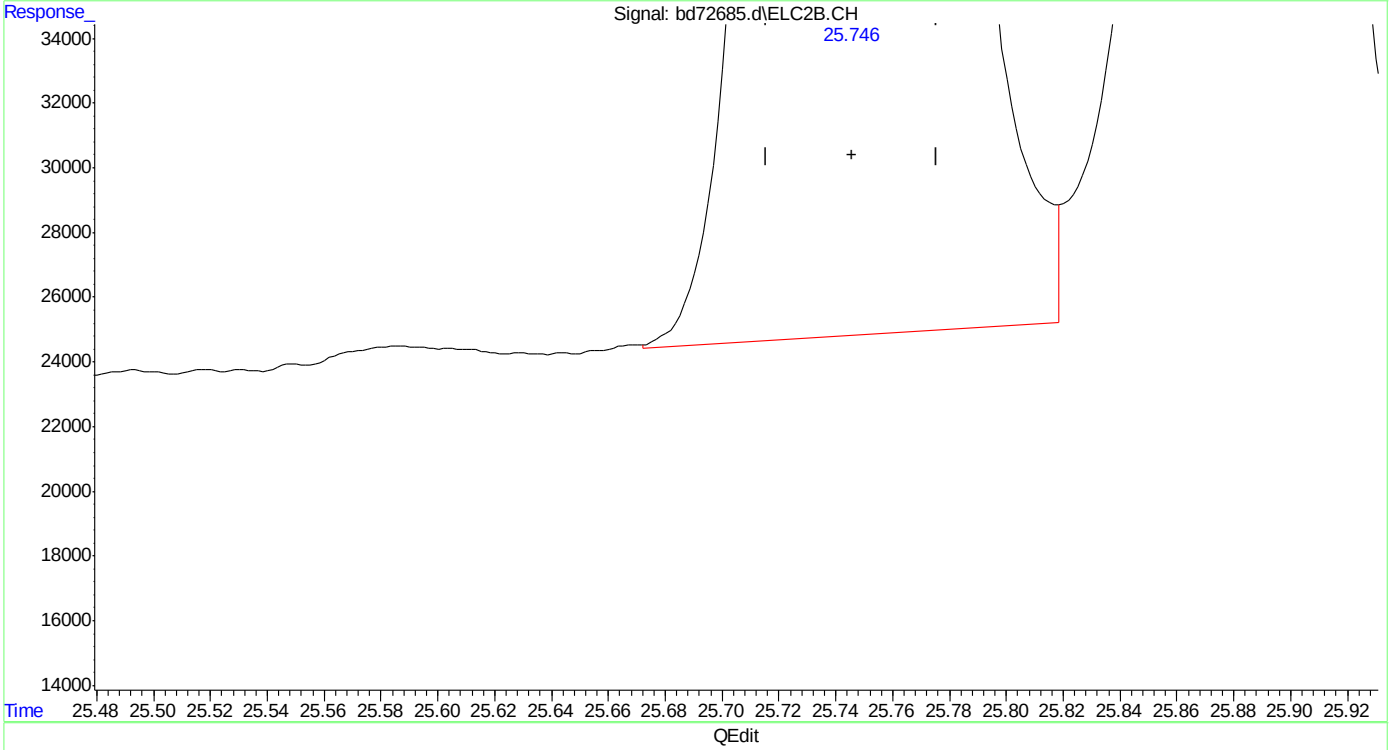
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:39 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.746min 9.727 ppb m
response 4478298

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:46 2016

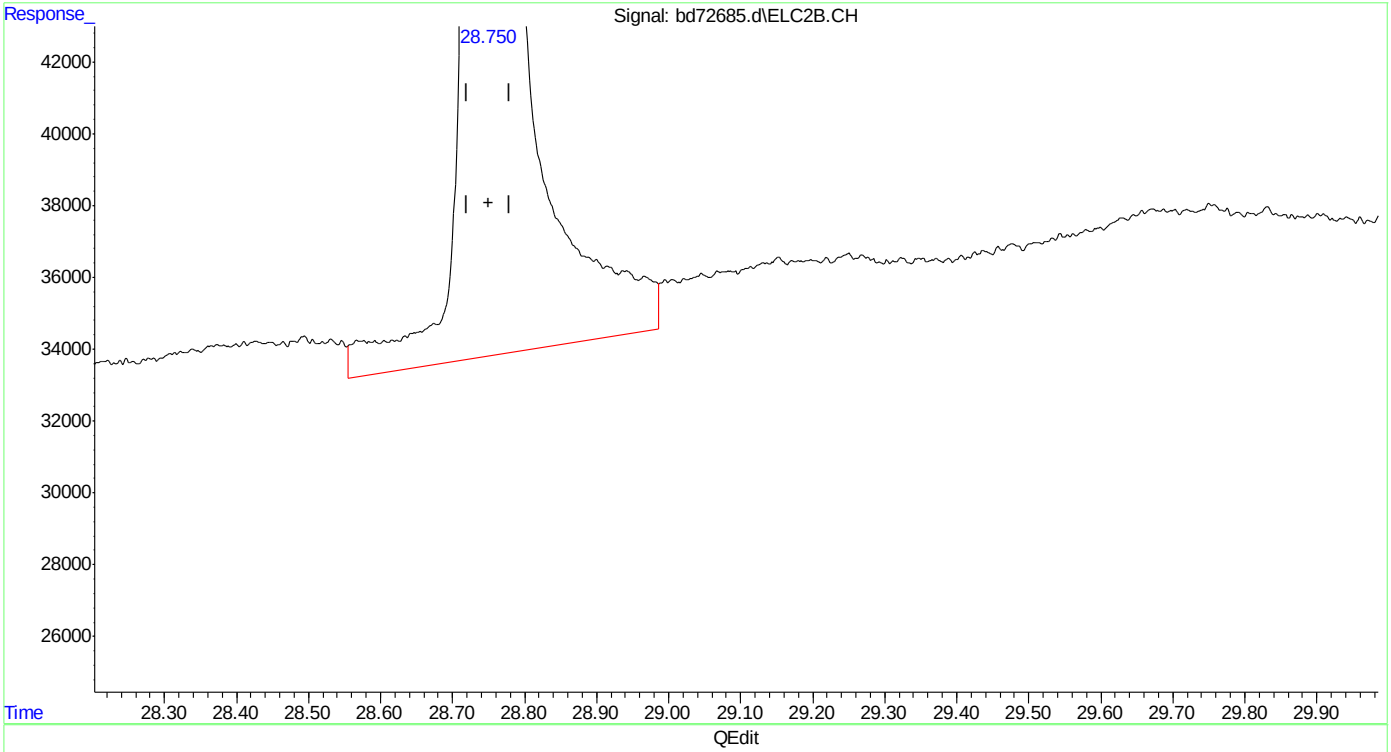
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.751min 10.162 ppb
response 3113386

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:51 2016

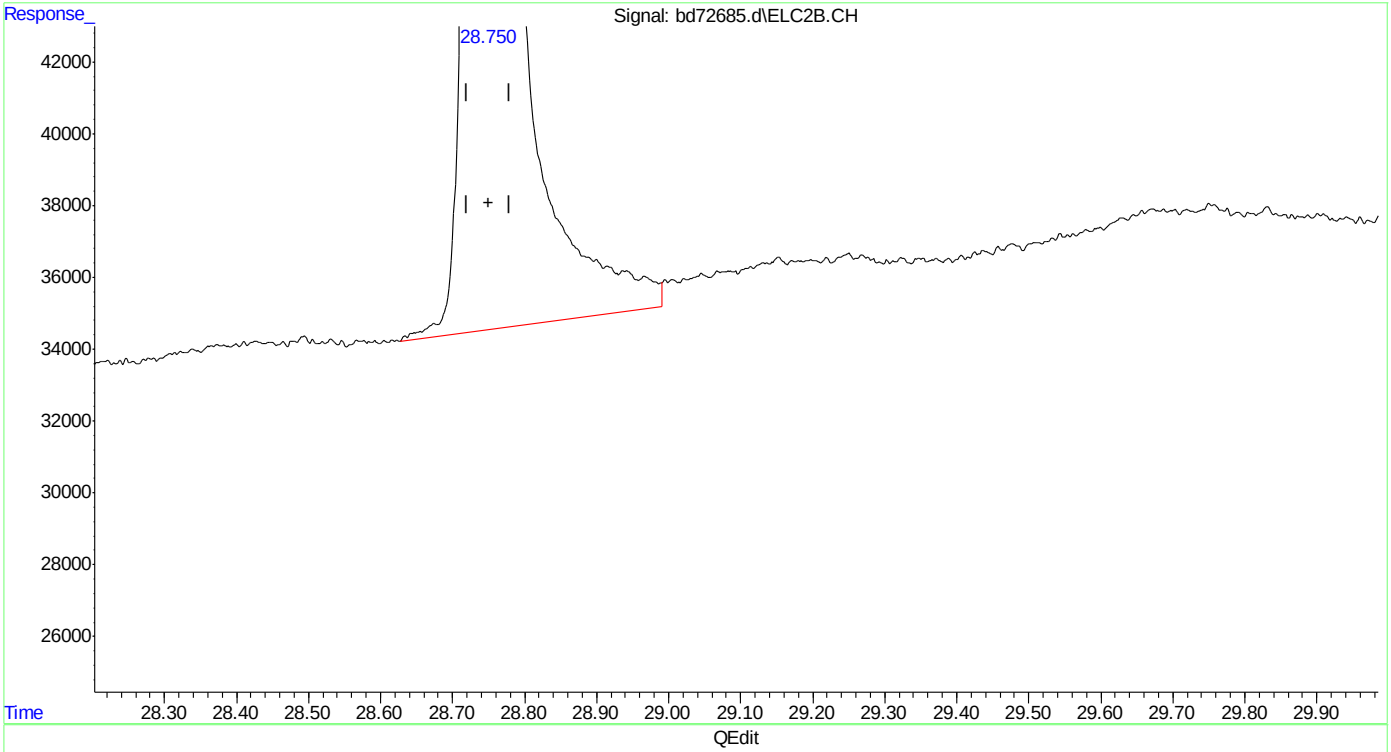
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.750min 9.536 ppb m
response 2921622

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:58 2016

SGS ACCUTEST MC45897
7.5.6.49
7

BD72686.D

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3572-5 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:10:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	16.422	3688118	5.021 ppb	m
Spiked Amount 50.000		Recovery =	10.04%	
9) s 2,3,4-trifluorotoluene	21.237	2891402	5.093 ppb	m
Spiked Amount 50.000		Recovery =	10.19%	
25) s fluorobenzene #2	16.427	1839983	5.187 ppb	
Spiked Amount 50.000		Recovery =	10.37%	
27) s 2,3,4-trifluorotoluen...	21.239	1093855	5.317 ppb	
Spiked Amount 50.000		Recovery =	10.63%	
Target Compounds				
1) h rt5.5-7	7.470	2723524	4.815 ppb	m
2) h rt7/10	9.920	3084292	4.809 ppb	m
3) mtbe	10.703f	1367206	4.694 ppb	m
4) h rt10/13	15.200	3432971	4.660 ppb	m
5) benzene	15.928	3586407	4.622 ppb	m
8) toluene	20.220	3670681	4.710 ppb	m
11) h rt20/25	22.840	4228618	5.237 ppb	m
13) ethylbenzene	23.172	3725793	4.742 ppb	
14) m,p-xylene	23.307	8126886	9.936 ppb	
15) o-xylene	24.029	3958698	4.801 ppb	
16) h decane	24.930	4869338	5.664 ppb	m
17) t 1,3,5-trimethylbenzene	25.270	4911450	5.095 ppb	
18) 1,2,4-trimethylbenzene	25.747	4259354	4.888 ppb	m
19) h butylcyclohexane	25.908	4968205	5.418 ppb	m
20) naphthalene	28.751	1655353	3.869 ppb	m
23) mtbe #2	10.684	768191	4.929 ppb	m
24) benzene #2	15.932	2284991	4.901 ppb	m
26) toluene #2	20.221	2057654	4.798 ppb	
28) ethylbenzene #2	23.171	1919162	4.902 ppb	
29) m,p-xylene #2	23.307	4695443	9.846 ppb	
30) o-xylene #2	24.029	2037337	4.986 ppb	
31) t 1,3,5-trimethylbenzen...	25.270	3360107	5.125 ppb	
32) 1,2,4-trimethylbenzen...	25.747	2257211	4.900 ppb	m
33) naphthalene #2	28.752	1234487	4.022 ppb	
34) h c9-c10 arom as 1,2,4-tmb	25.777	2258039	4.914 ppb	m

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

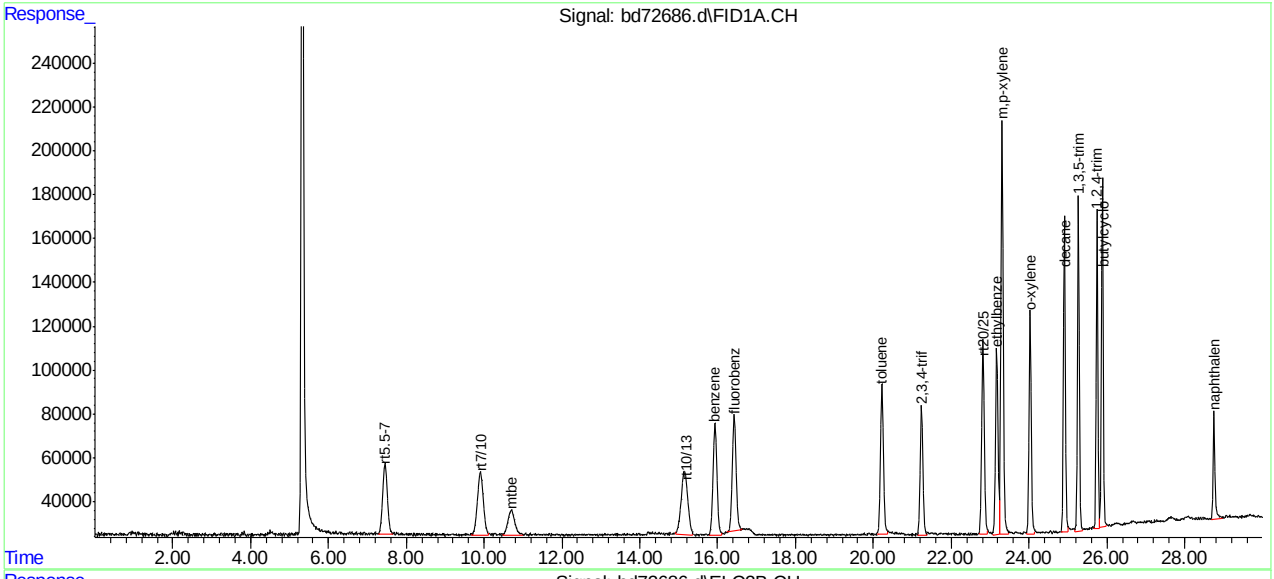
SGS ACCUTEST MC45897

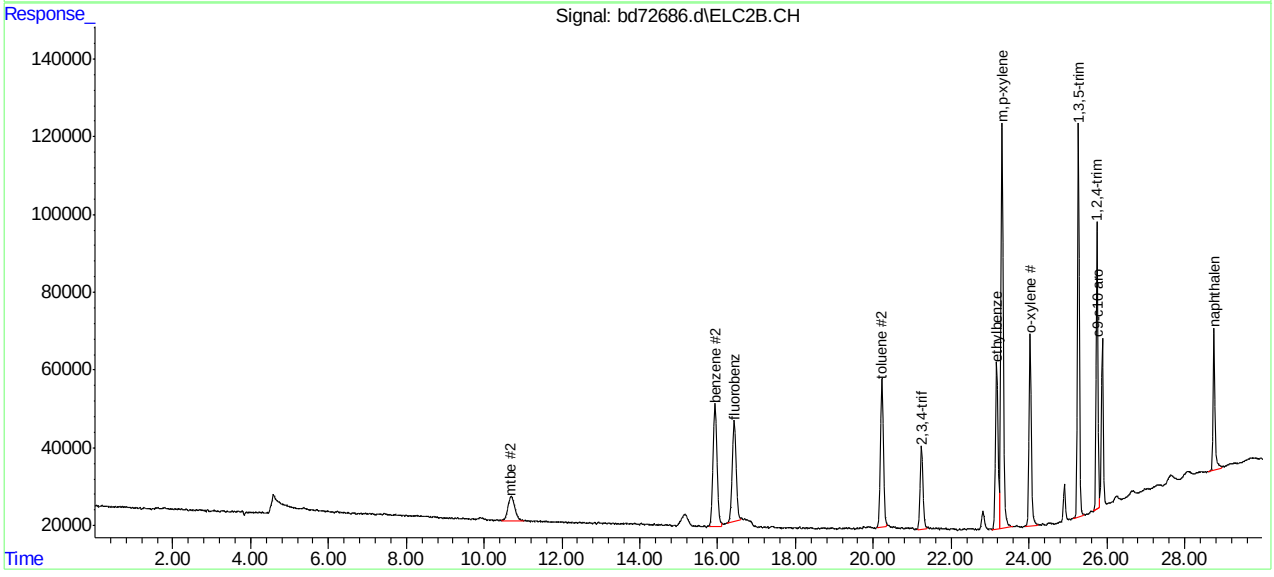
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3572-5 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

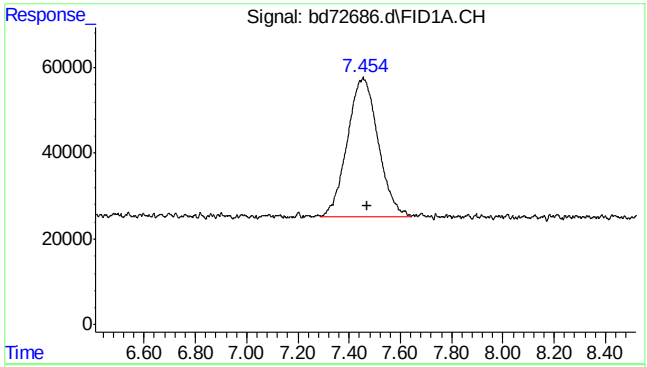
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:10:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



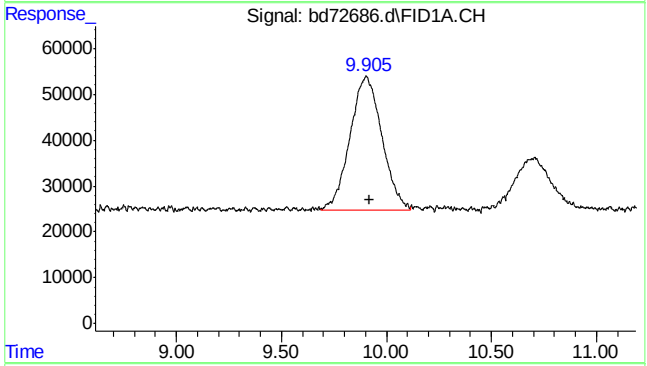


SGS ACCUTEST MC45897



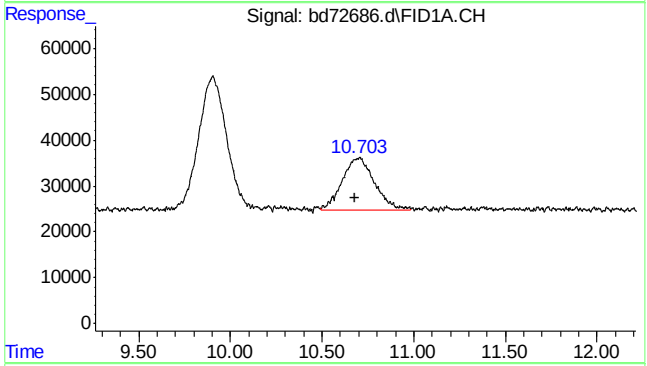
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 2723524
Conc: 4.82 ppb m



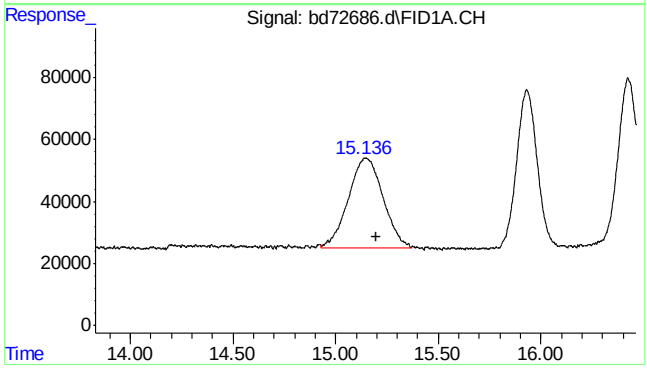
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 3084292
Conc: 4.81 ppb m



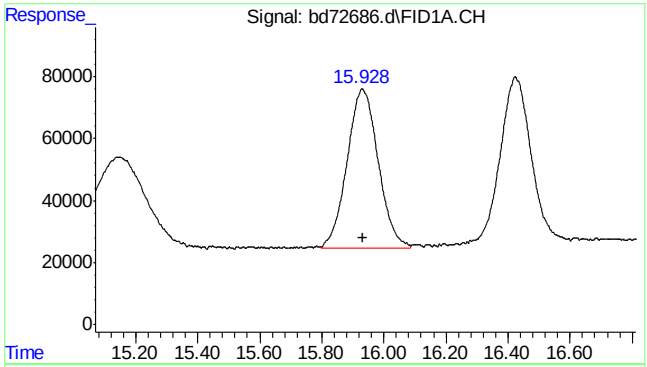
#3 mtbe

R.T.: 10.703 min
Delta R.T.: 0.020 min
Response: 1367206
Conc: 4.69 ppb m



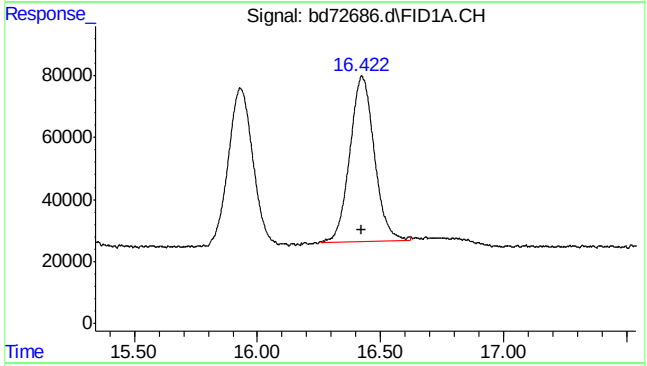
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 3432971
Conc: 4.66 ppb m



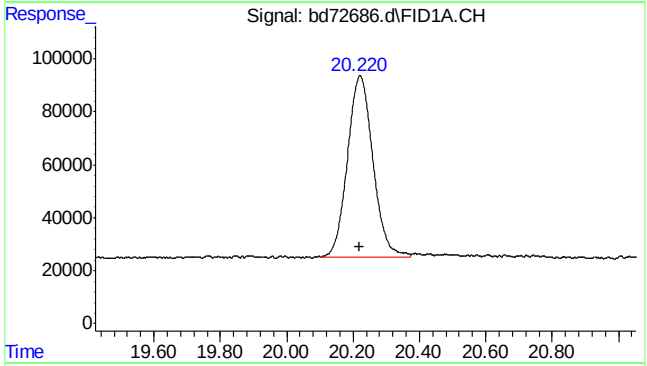
#5 benzene

R.T.: 15.928 min
Delta R.T.: -0.005 min
Response: 3586407
Conc: 4.62 ppb m



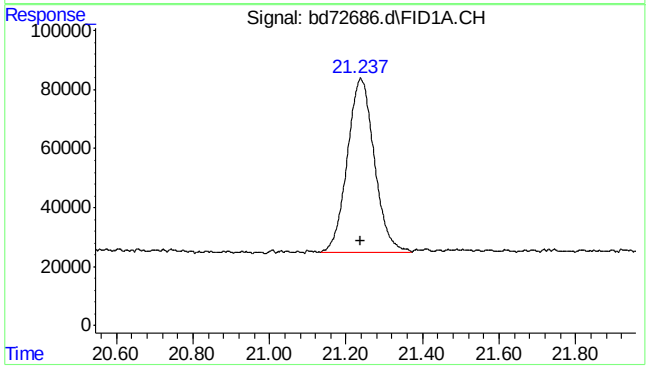
#6 fluorobenzene

R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 3688118
Conc: 5.02 ppb m



#8 toluene

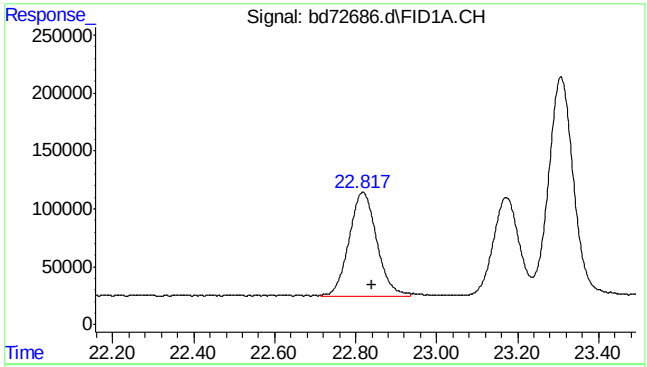
R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 3670681
Conc: 4.71 ppb m



#9 2,3,4-trifluorotoluene

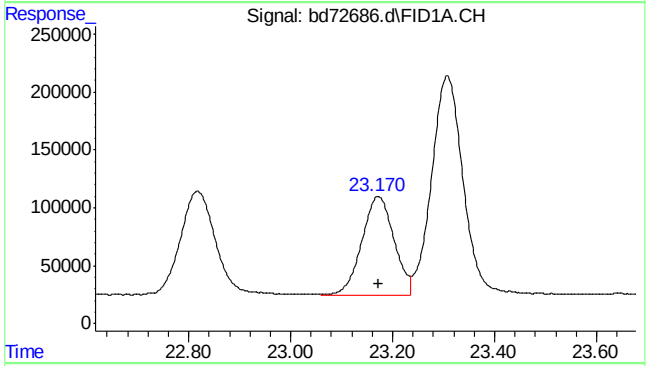
R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 2891402
Conc: 5.09 ppb m

SGS ACCUTEST MC45897



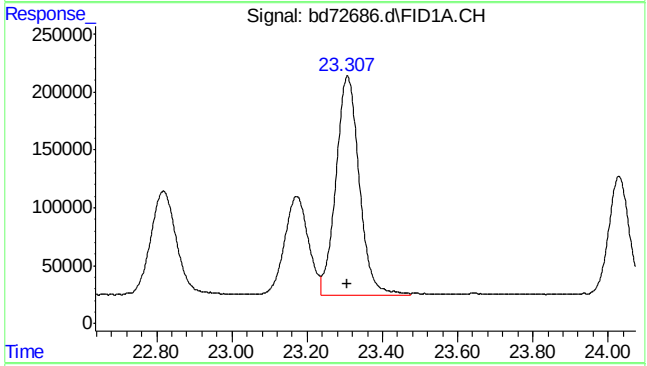
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 4228618
Conc: 5.24 ppb m



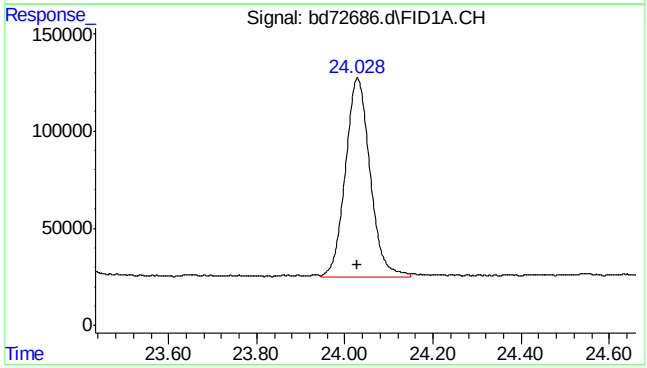
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 3725793
Conc: 4.74 ppb



#14 m,p-xylene

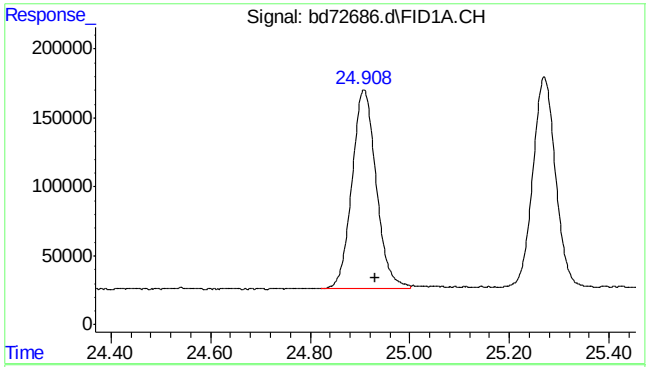
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 8126886
Conc: 9.94 ppb



#15 o-xylene

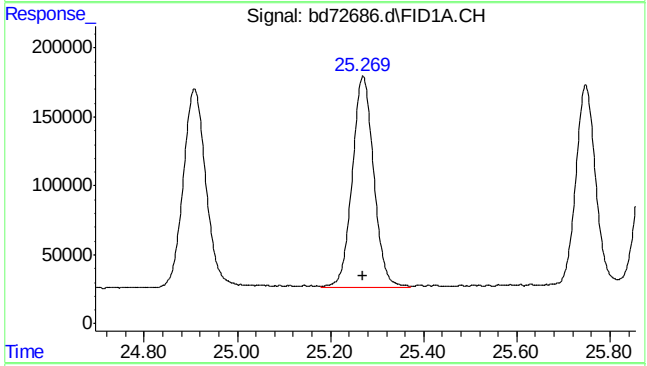
R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 3958698
Conc: 4.80 ppb

SGS ACCUTEST MC45897



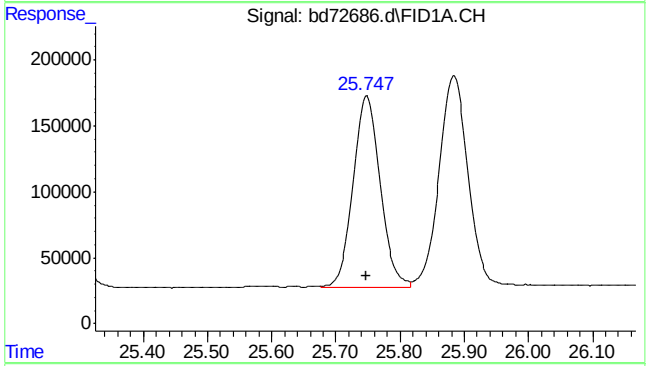
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 4869338
Conc: 5.66 ppb m



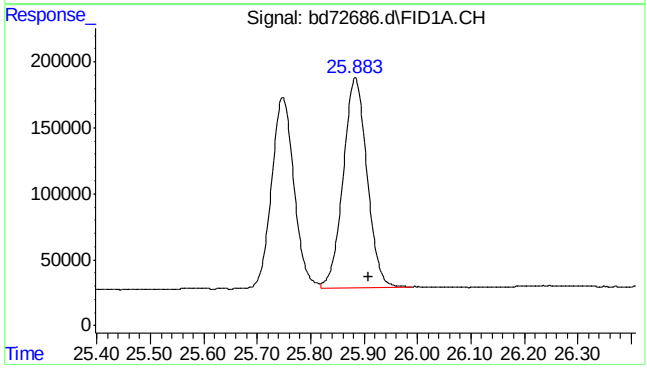
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 4911450
Conc: 5.10 ppb



#18 1,2,4-trimethylbenzene

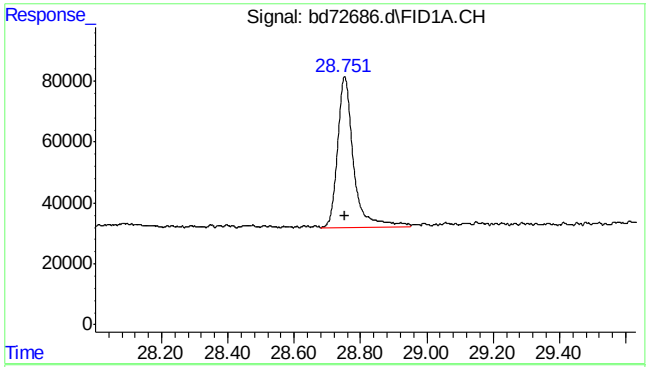
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 4259354
Conc: 4.89 ppb m



#19 butylcyclohexane

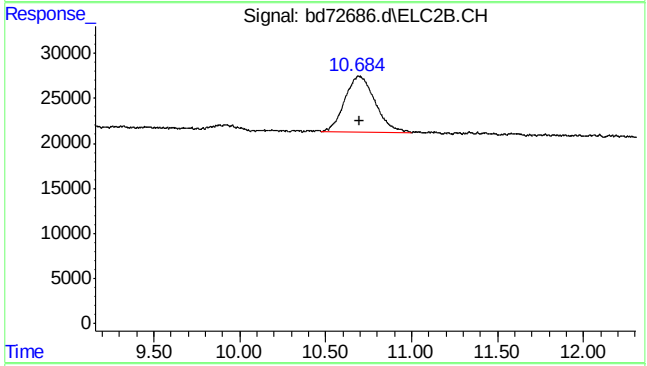
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 4968205
Conc: 5.42 ppb m

SGS ACCUTEST MC45897



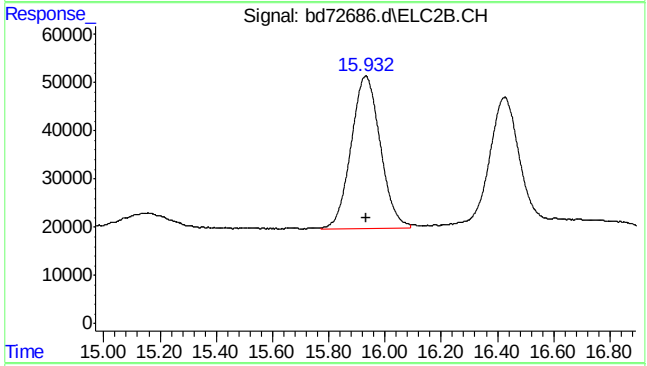
#20 naphthalene

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 1655353
Conc: 3.87 ppb m



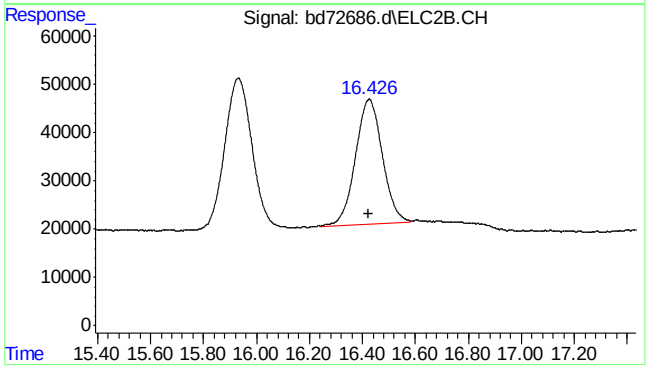
#23 mtbe #2

R.T.: 10.684 min
Delta R.T.: -0.011 min
Response: 768191
Conc: 4.93 ppb m



#24 benzene #2

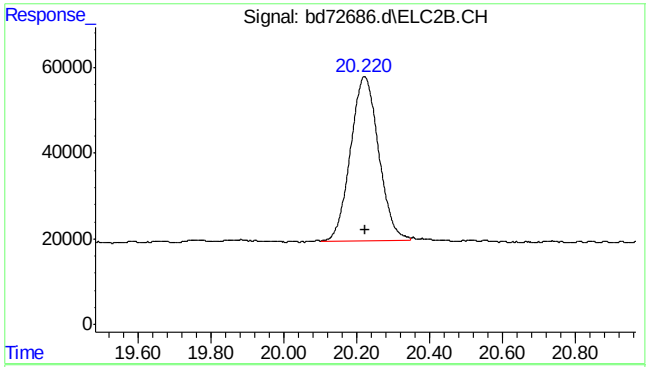
R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 2284991
Conc: 4.90 ppb m



#25 fluorobenzene #2

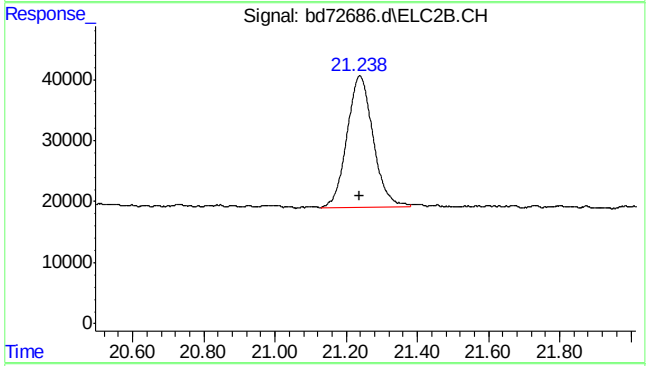
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 1839983
Conc: 5.19 ppb

SGS ACCUTEST MC45897



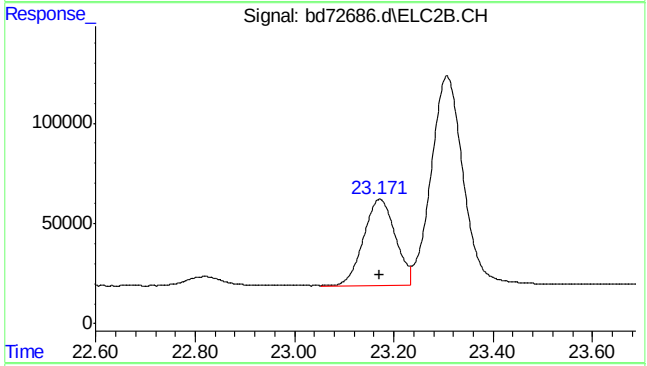
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 2057654
Conc: 4.80 ppb



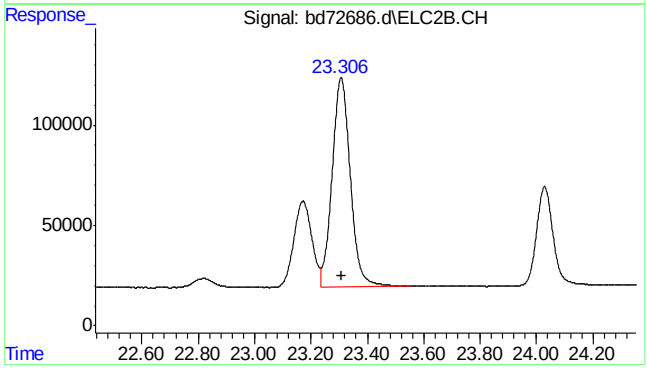
#27 2,3,4-trifluorotoluene #2

R.T.: 21.239 min
Delta R.T.: 0.002 min
Response: 1093855
Conc: 5.32 ppb



#28 ethylbenzene #2

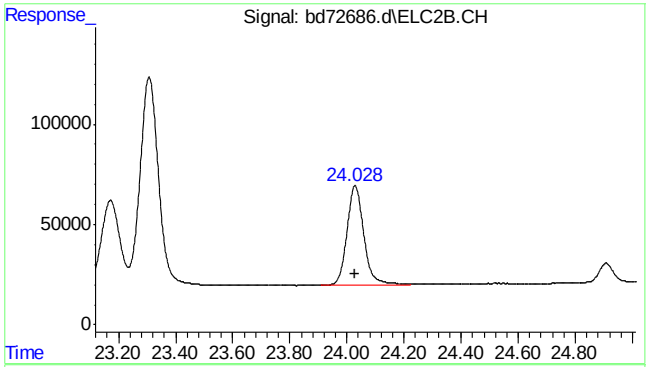
R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 1919162
Conc: 4.90 ppb



#29 m,p-xylene #2

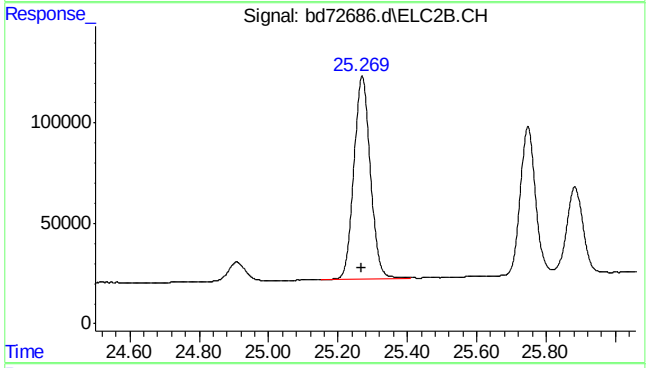
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 4695443
Conc: 9.85 ppb

SGS ACCUTEST MC45897



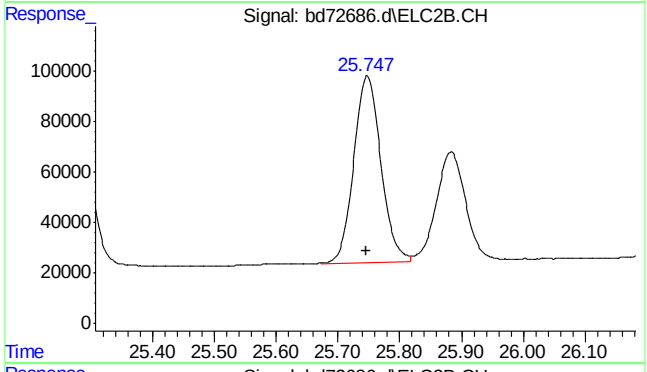
#30 o-xylene #2

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 2037337
Conc: 4.99 ppb



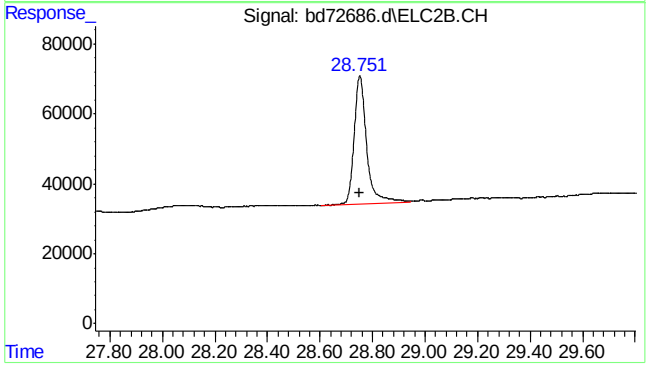
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 3360107
Conc: 5.13 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 2257211
Conc: 4.90 ppb m



#33 naphthalene #2

R.T.: 28.752 min
Delta R.T.: 0.002 min
Response: 1234487
Conc: 4.02 ppb

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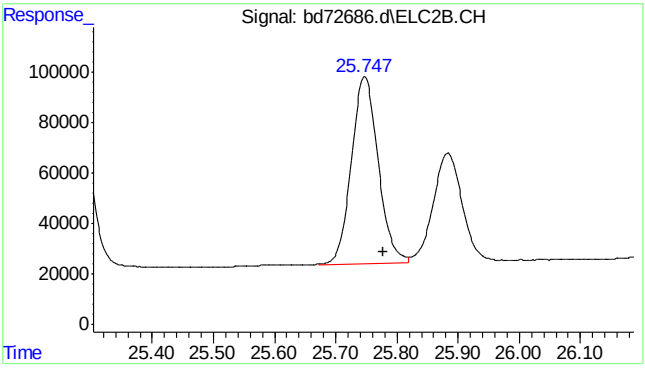

#34 c9-c10 arom as 1,2,4-tmb

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	2258039
Conc:	4.91 ppb m

7.5.7

7

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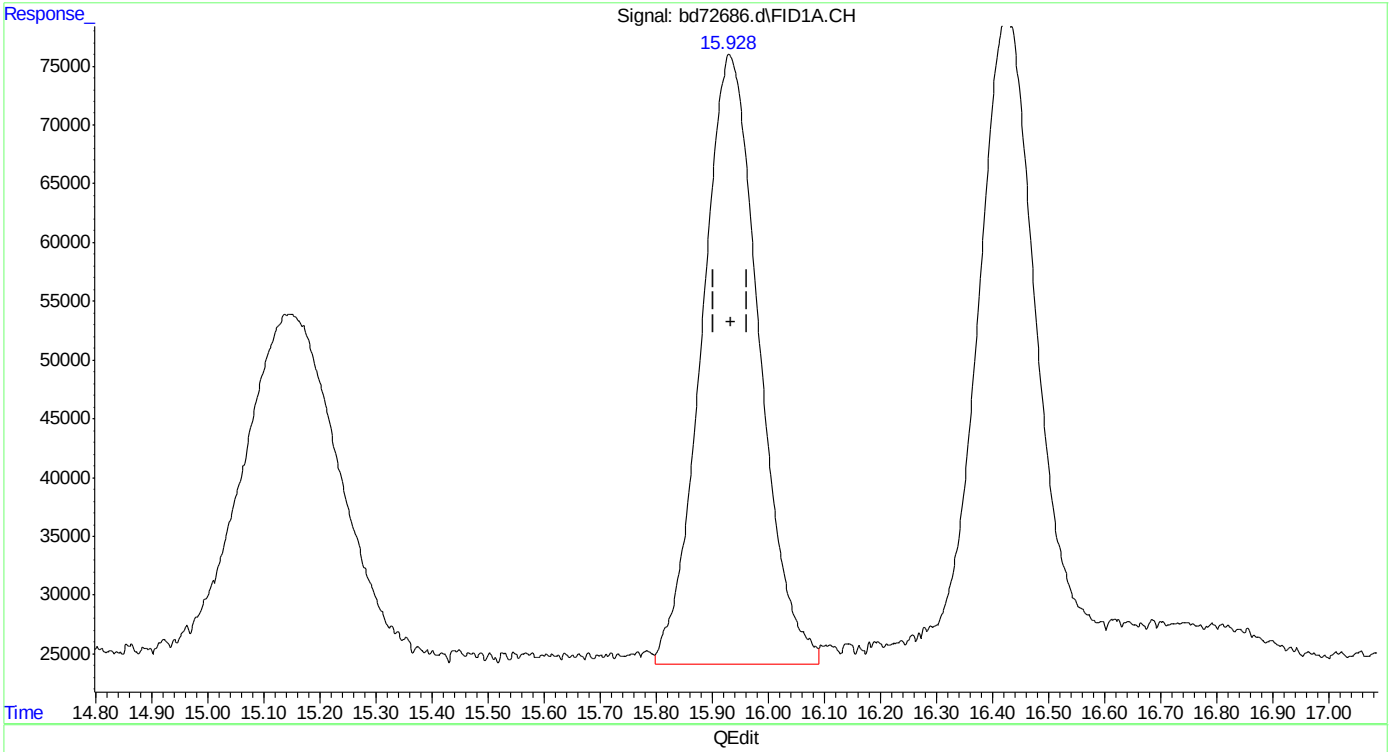
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(5) benzene
15.930min 4.498 ppb
response 3683528

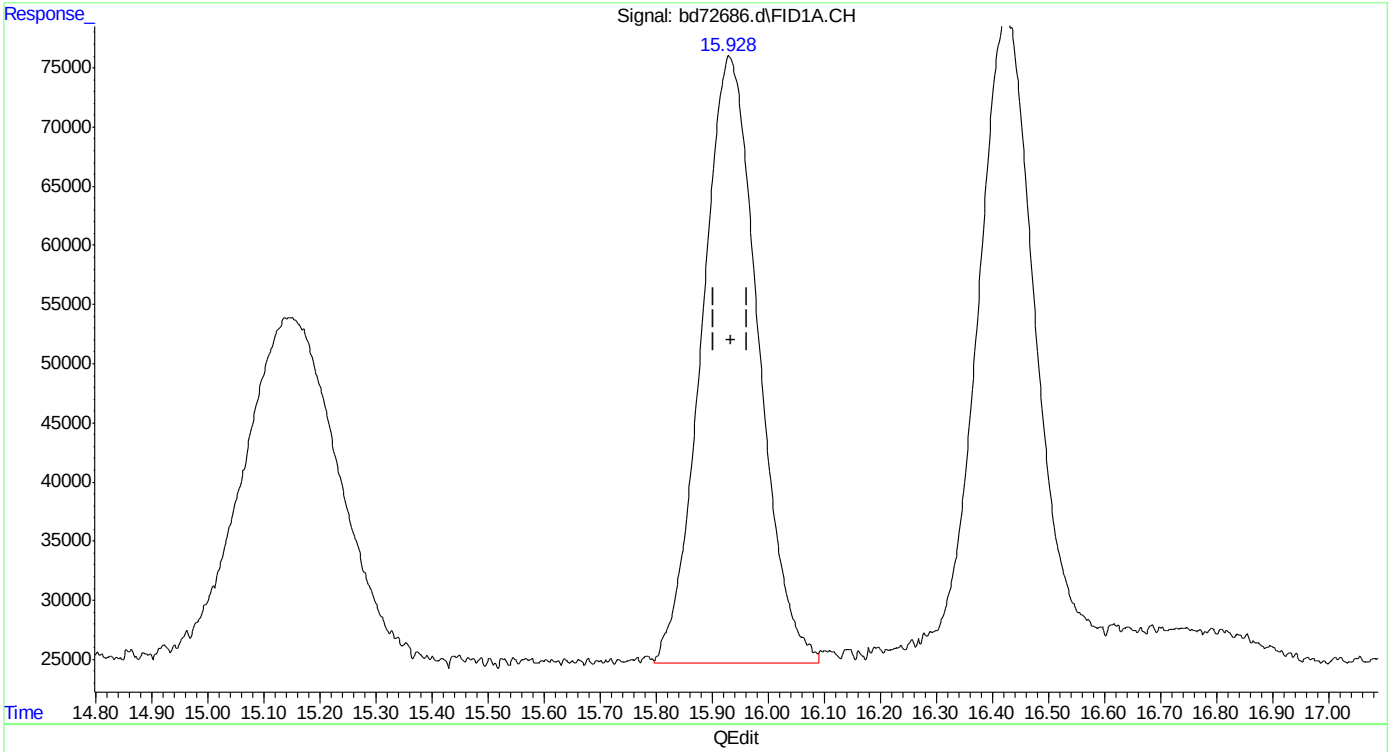
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(5) benzene
15.928min 4.369 ppb m
response 3578099

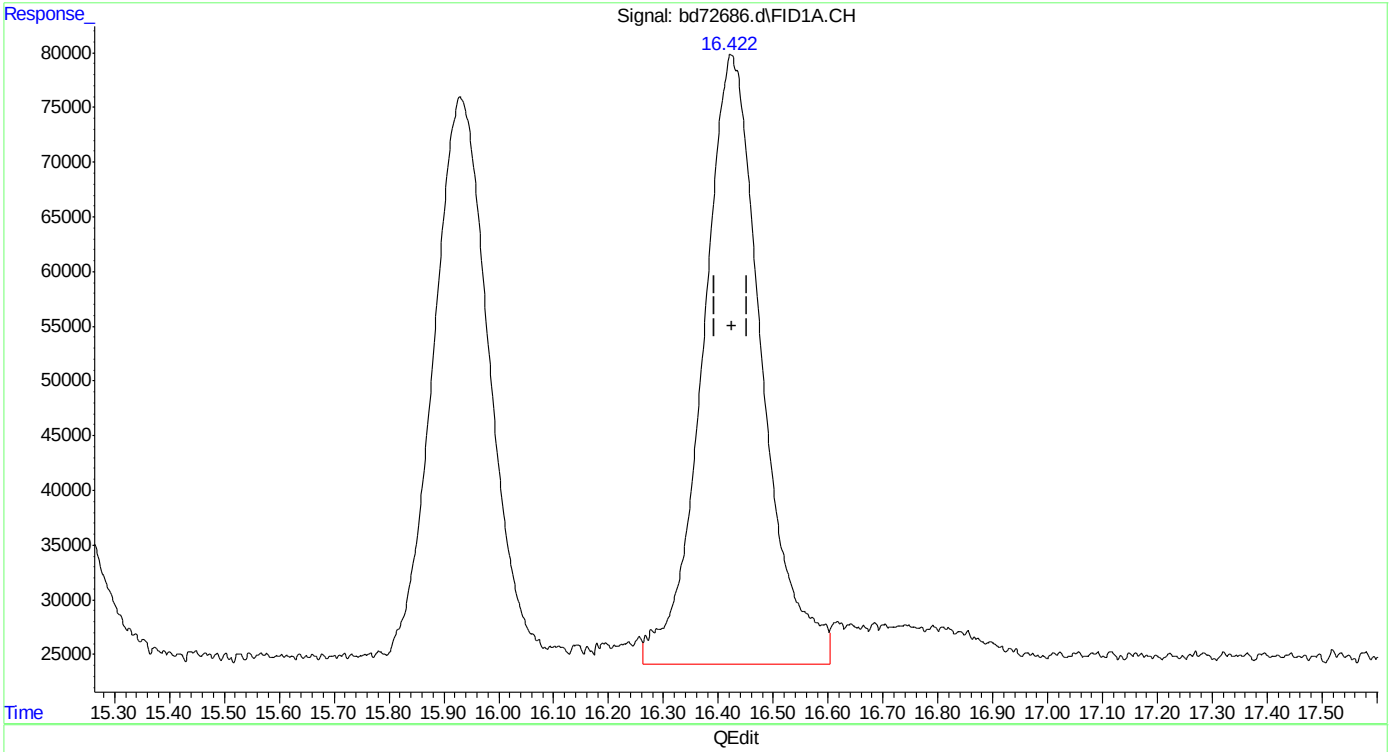
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) fluorobenzene (s)
16.423min 5.686 ppb
response 4152408

(+) = Expected Retention Time

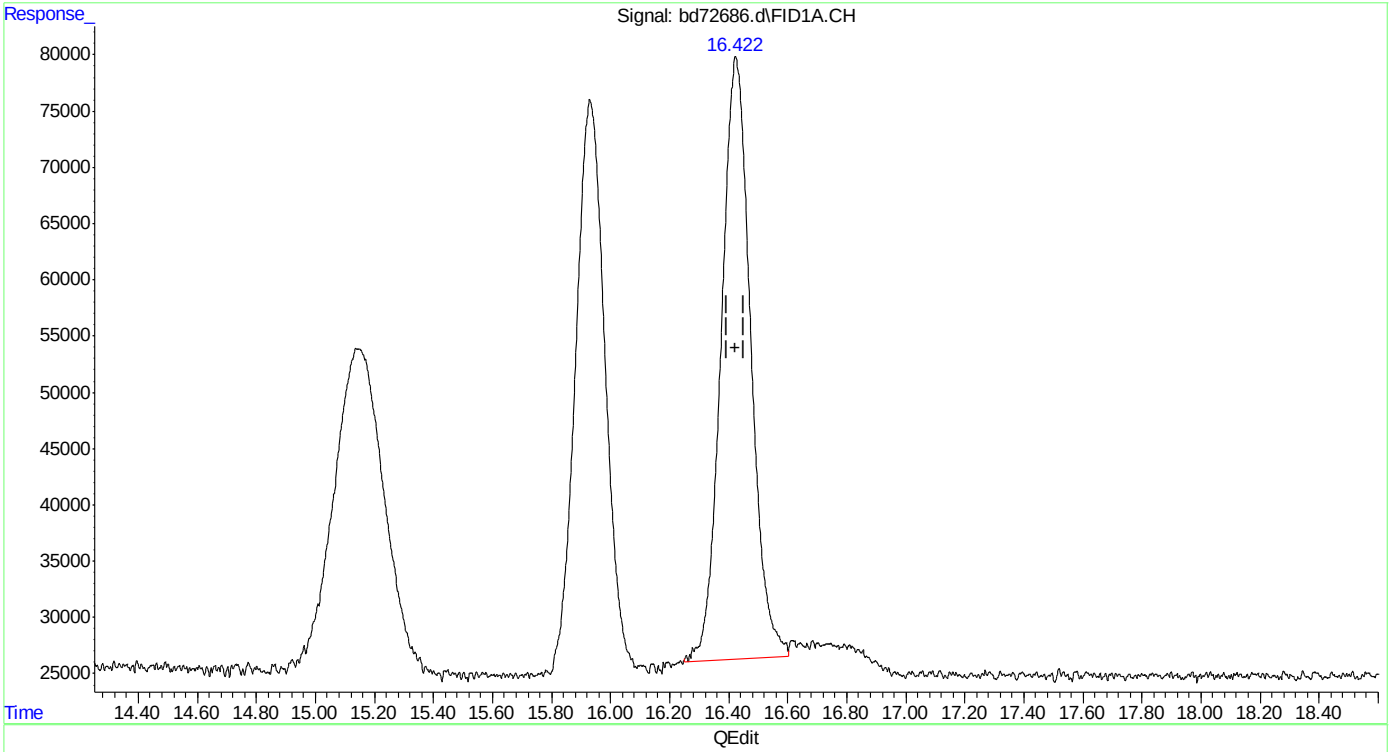
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) fluorobenzene (s)
16.422min 5.089 ppb m
response 3716381

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:58 2016

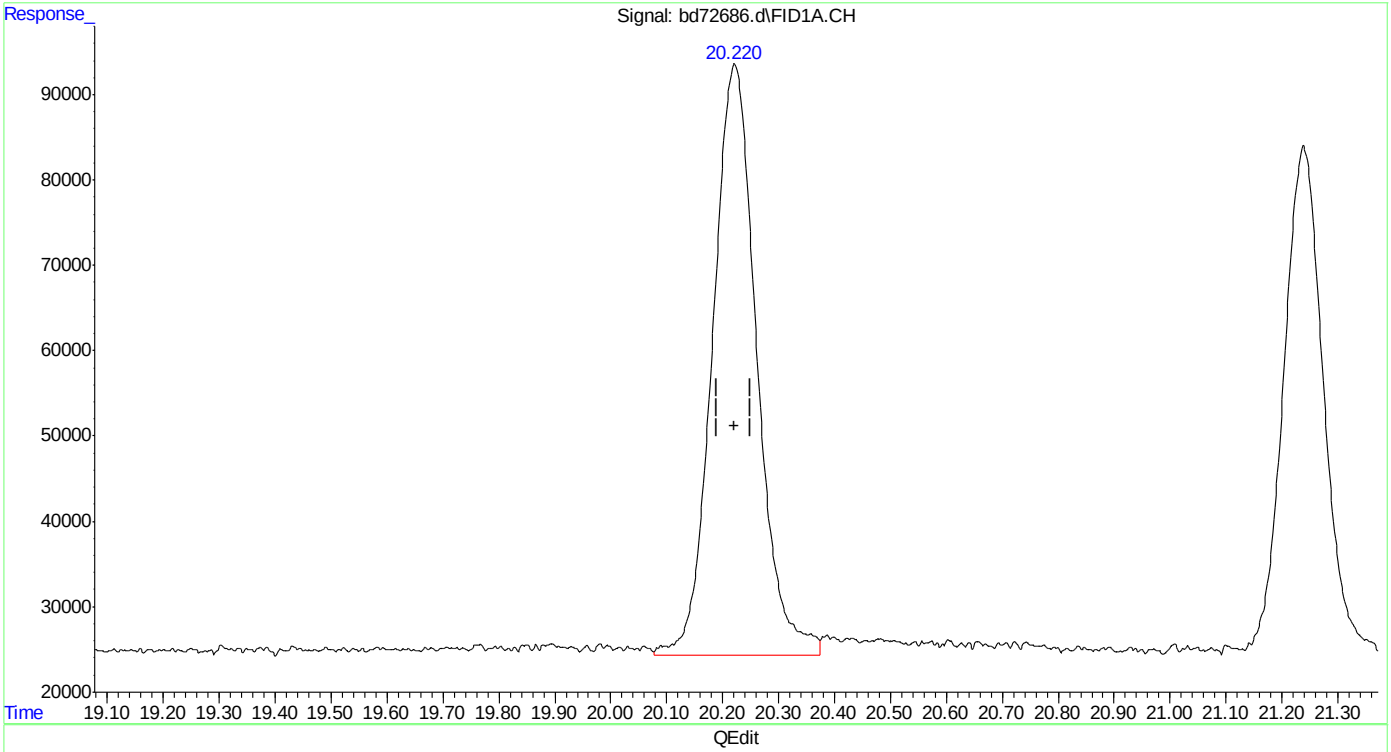
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
20.222min 4.739 ppb
response 3795317

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:53:03 2016

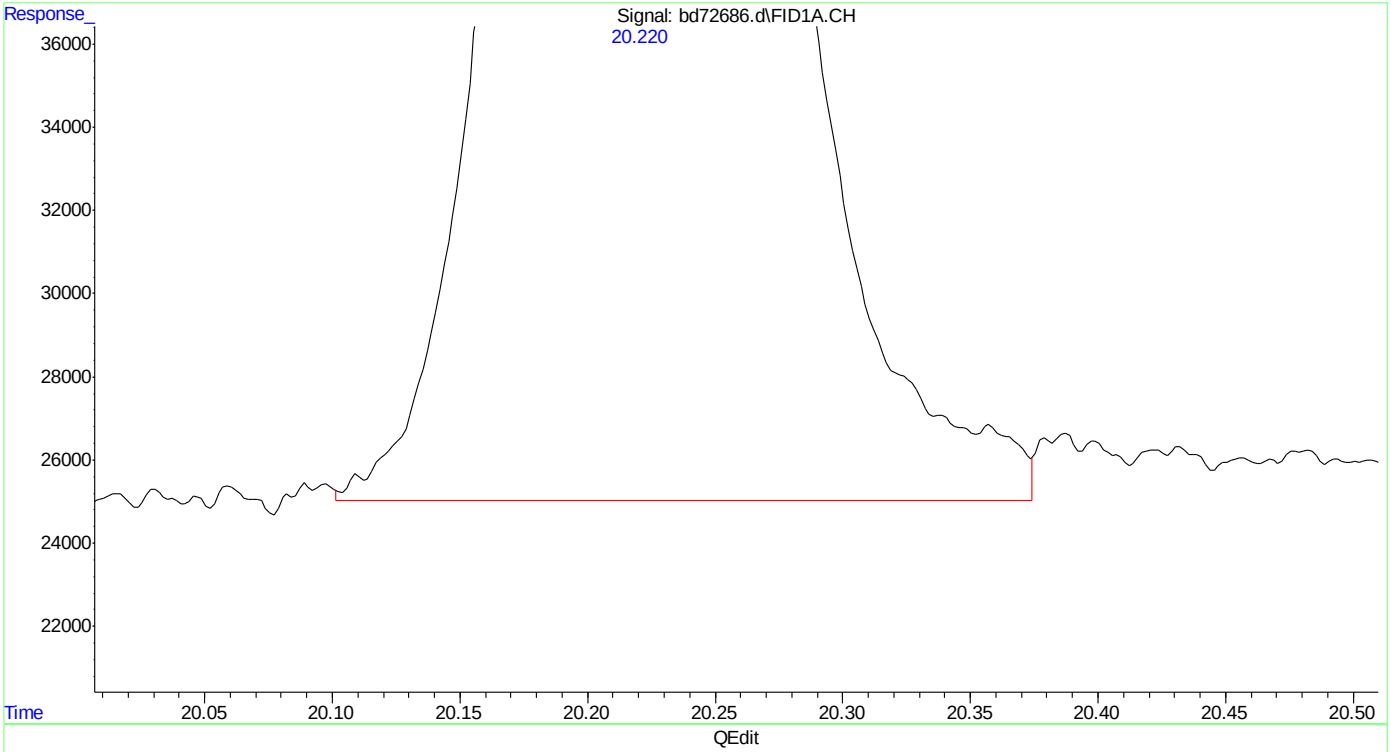
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
20.220min 4.588 ppb m
response 3674356

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:53:09 2016

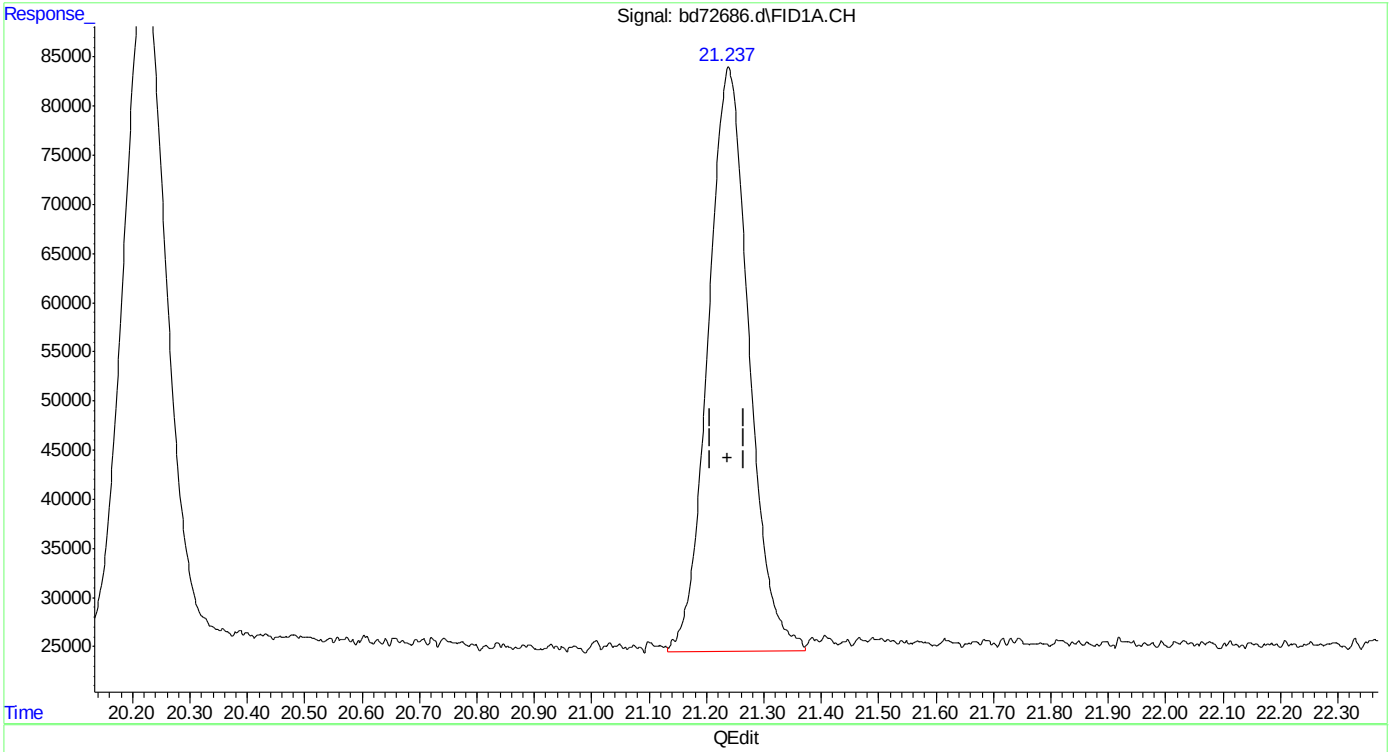
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(9) 2,3,4-trifluorotoluene (s)
21.239min 6.315 ppb
response 2942188

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:53:17 2016

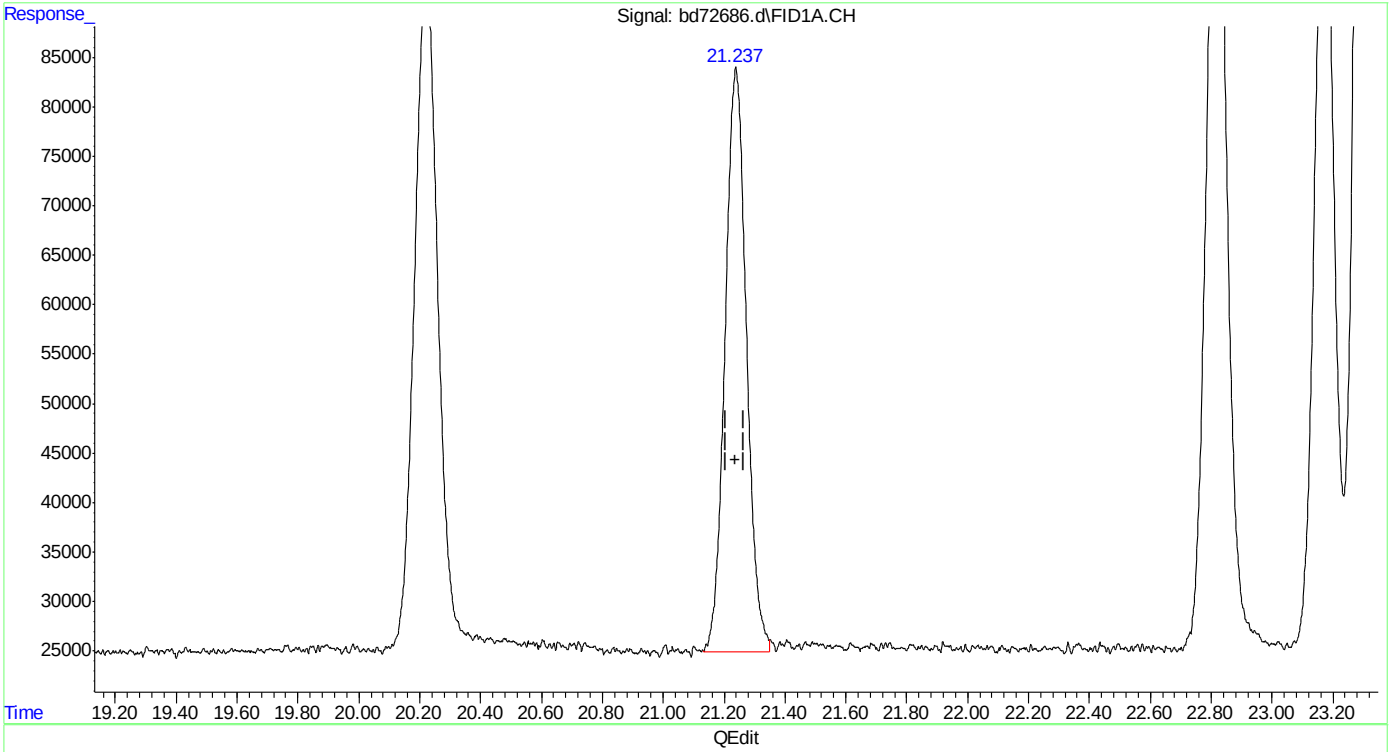
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(9) 2,3,4-trifluorotoluene (s)
21.237min 6.165 ppb m
response 2872335

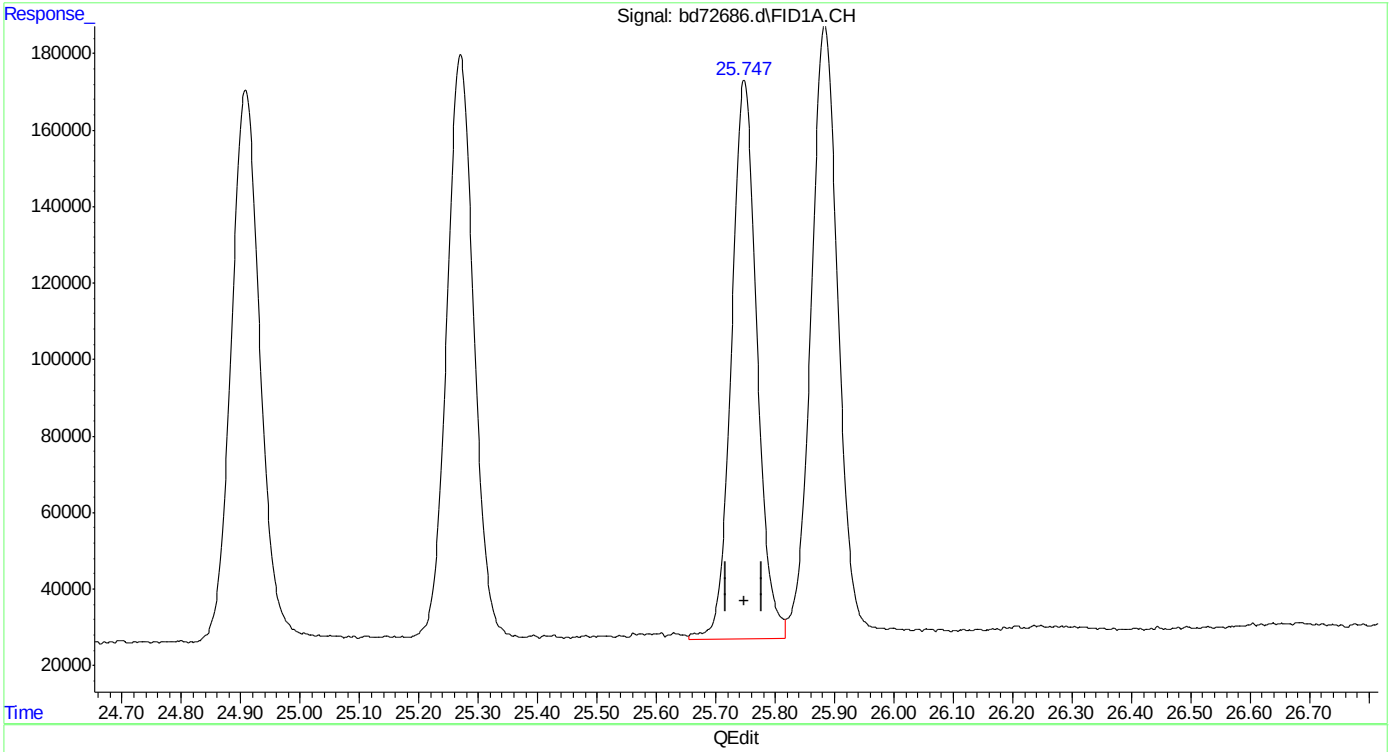
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:53:24 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 1,2,4-trimethylbenzene
25.748min 4.934 ppb
response 4343408

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:54:13 2016

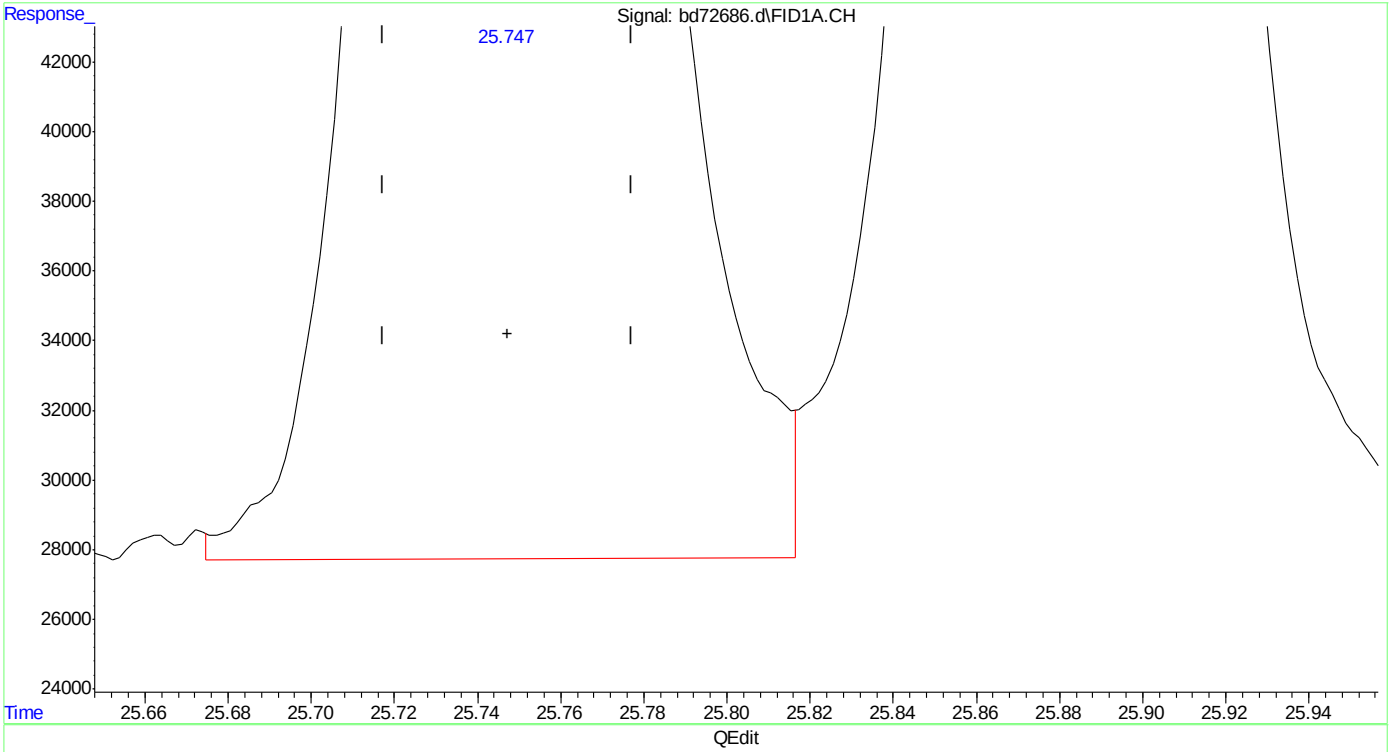
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 1,2,4-trimethylbenzene
25.747min 4.849 ppb m
response 4268140

(+) = Expected Retention Time

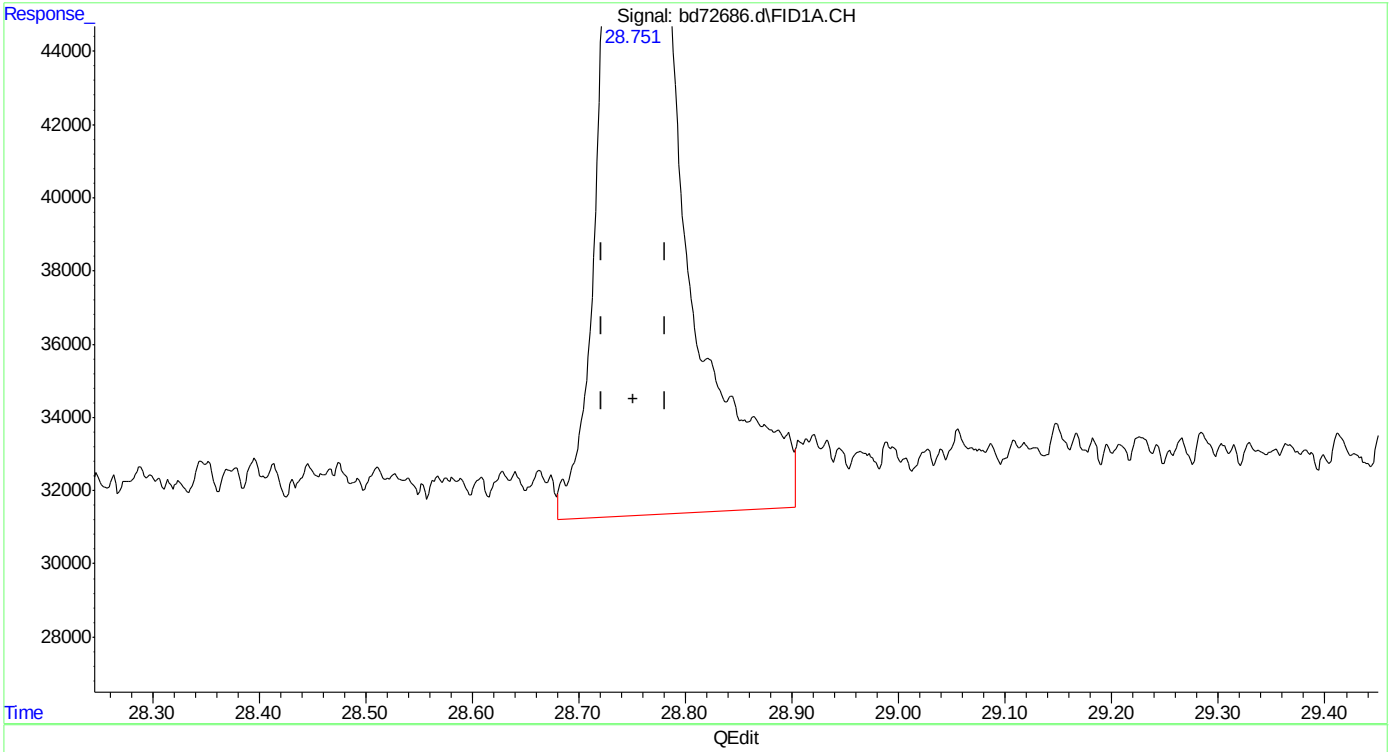
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.752min 3.551 ppb
response 1699084

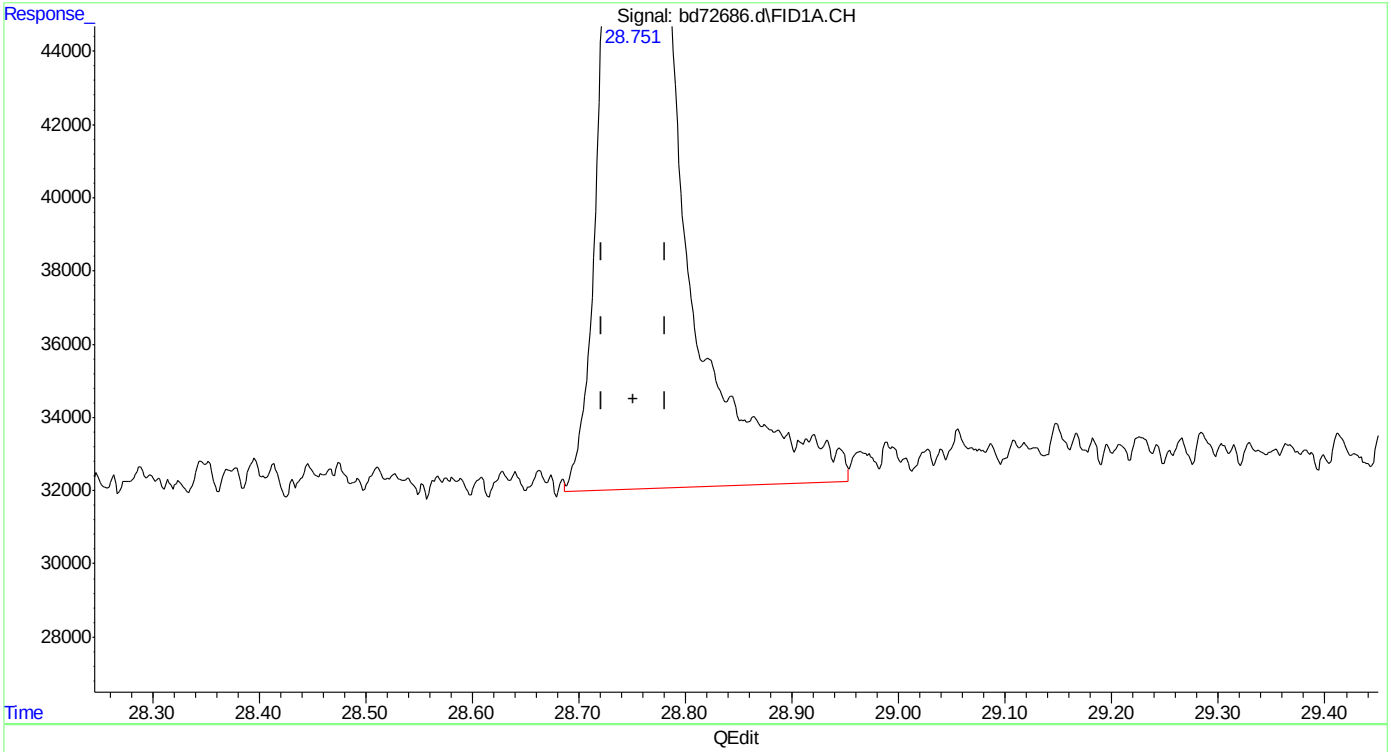
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:54:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.751min 3.412 ppb m
response 1632452

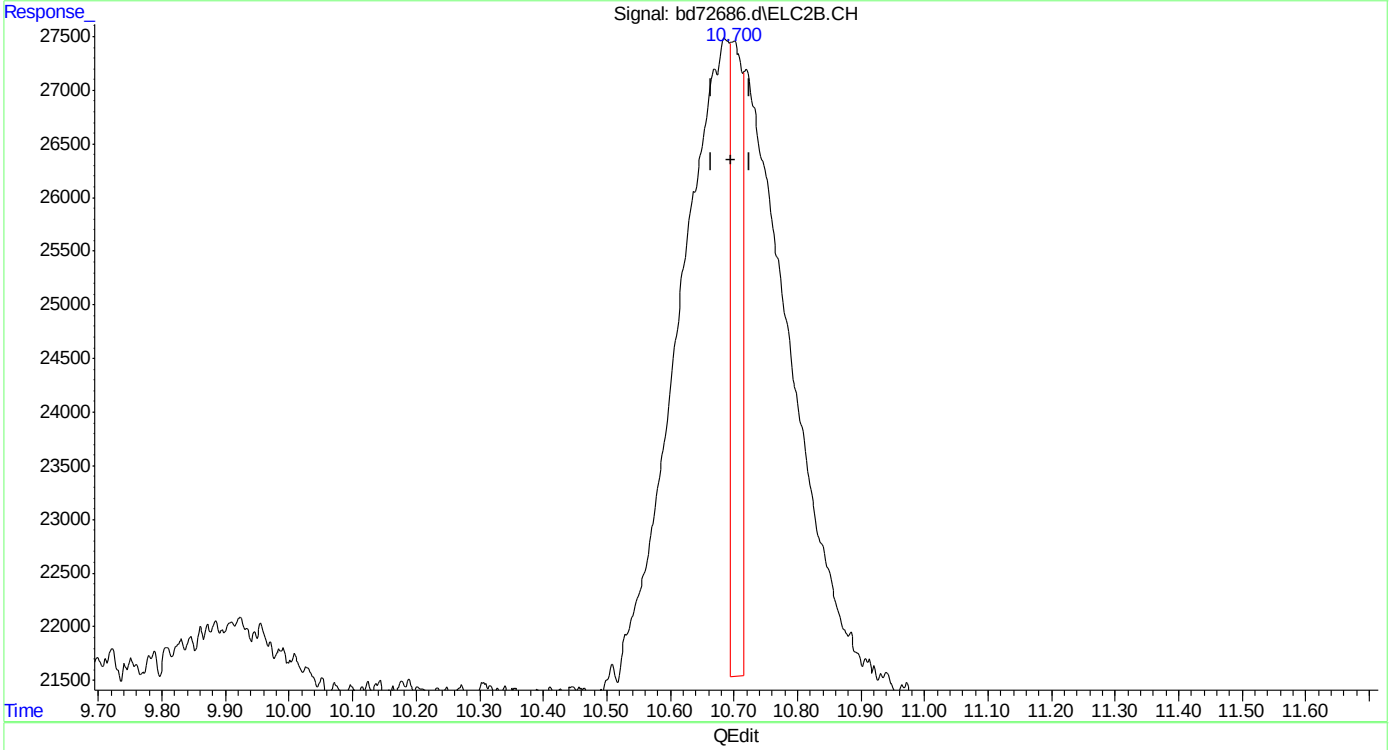
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:54:52 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.700min 0.472 ppb
response 74623

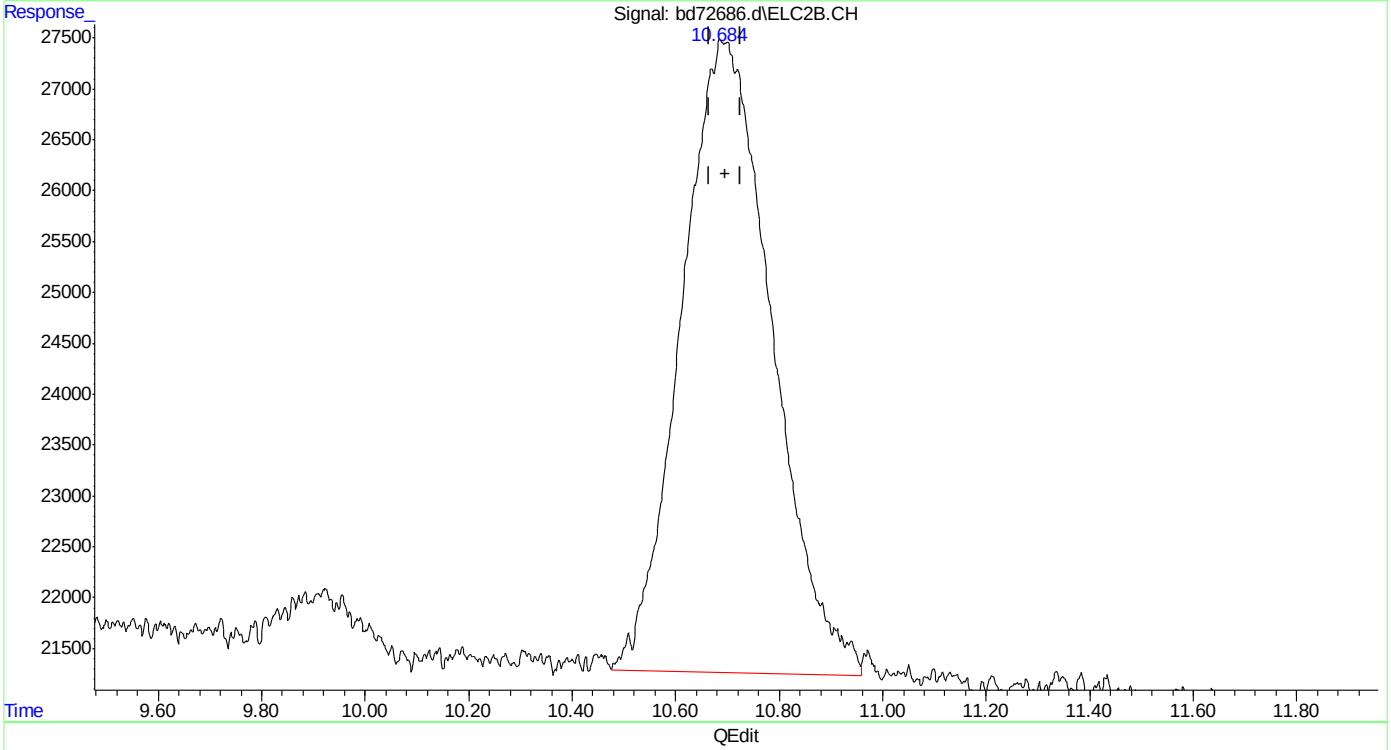
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:54:57 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.684min 4.779 ppb m
response 756337

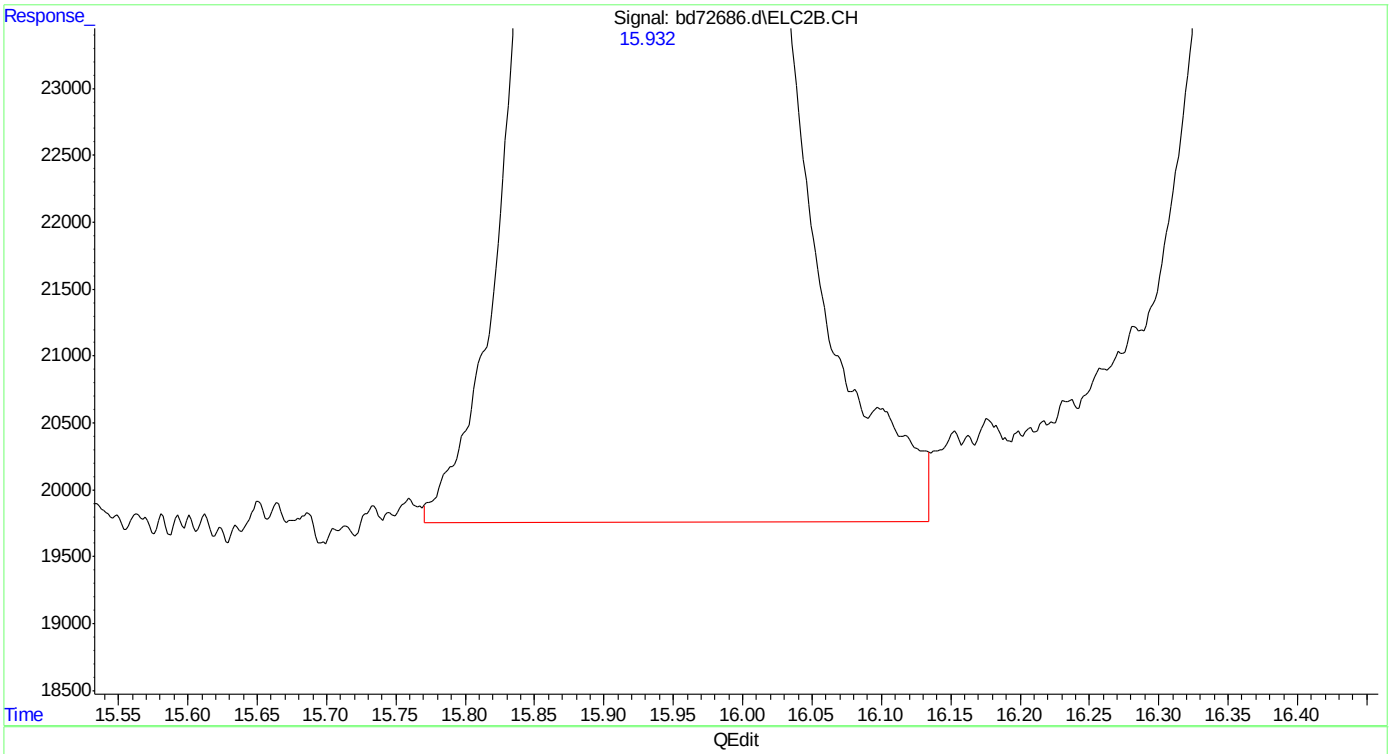
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) benzene #2
15.932min 4.863 ppb m
response 2298025

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:55:24 2016

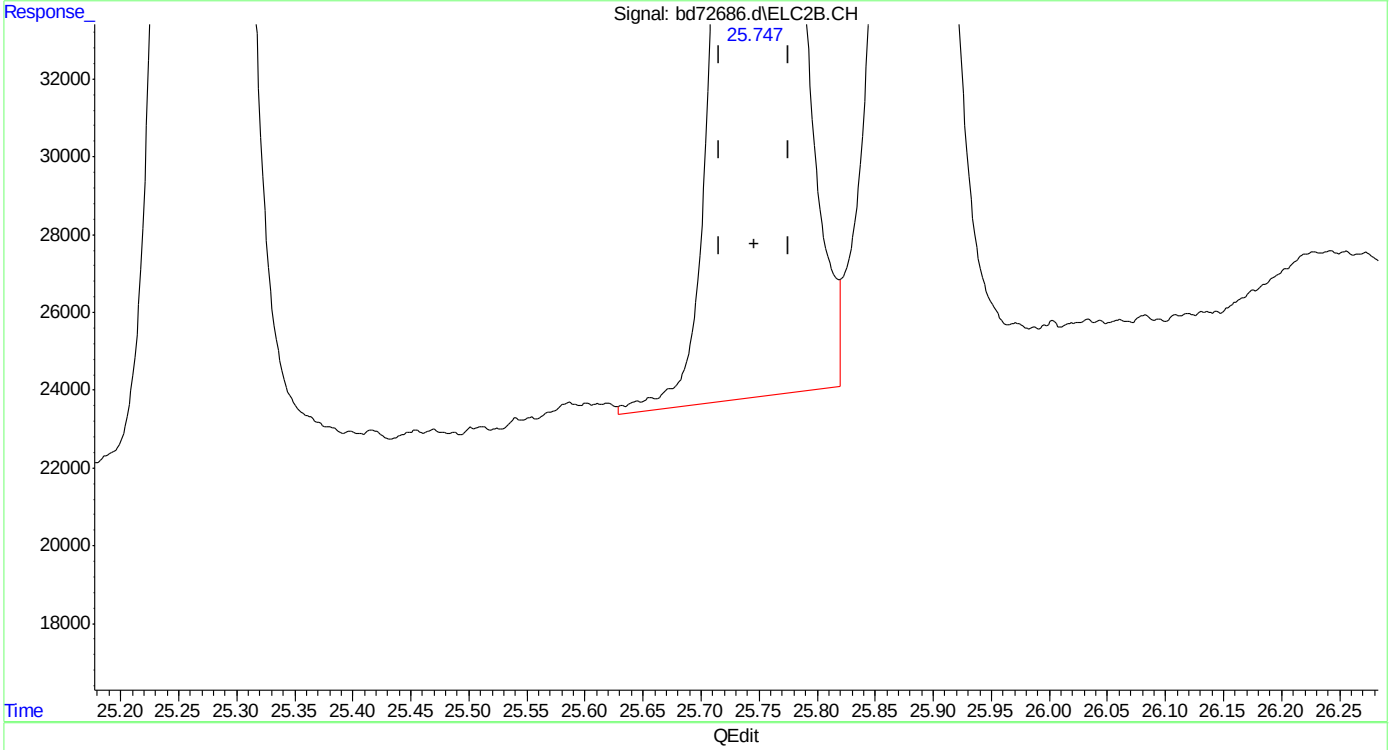
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.747min 4.982 ppb
response 2305795

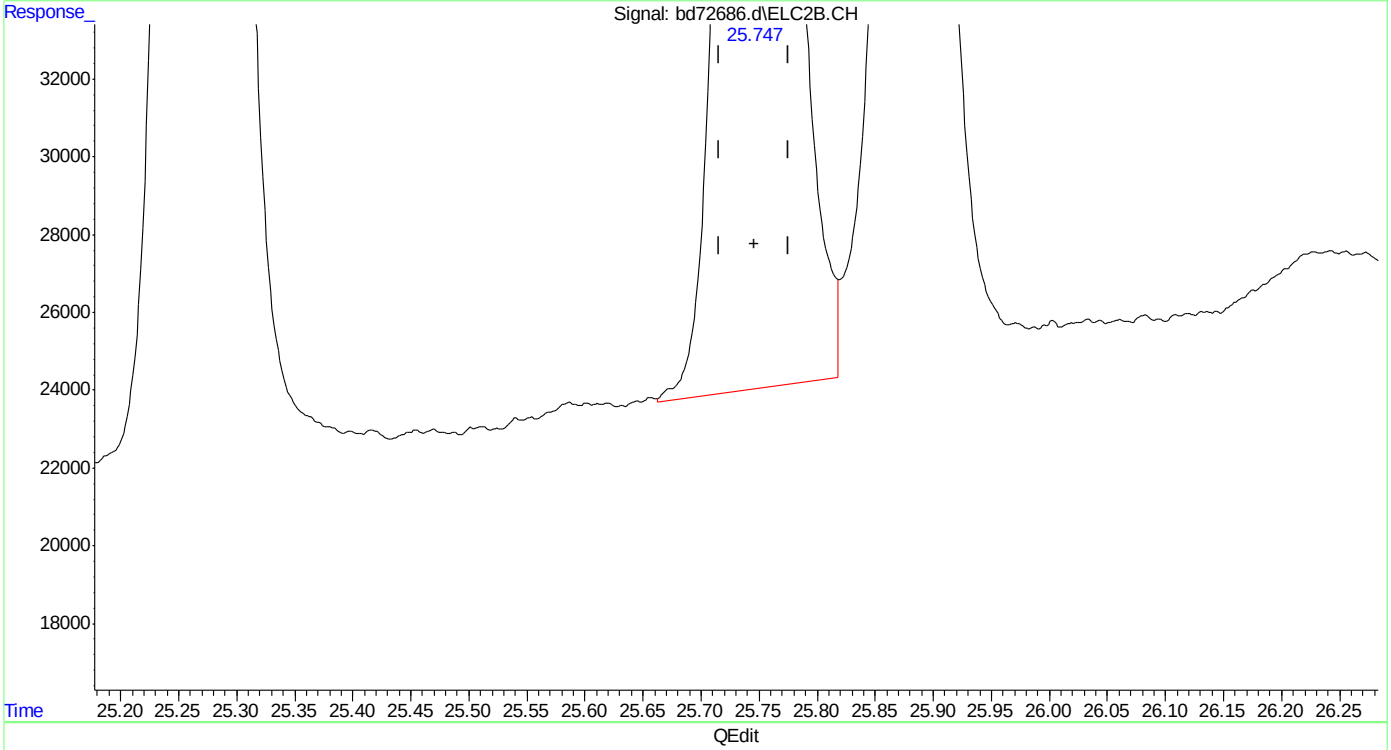
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:55:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.747min 4.922 ppb m
response 2277872

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:55:49 2016

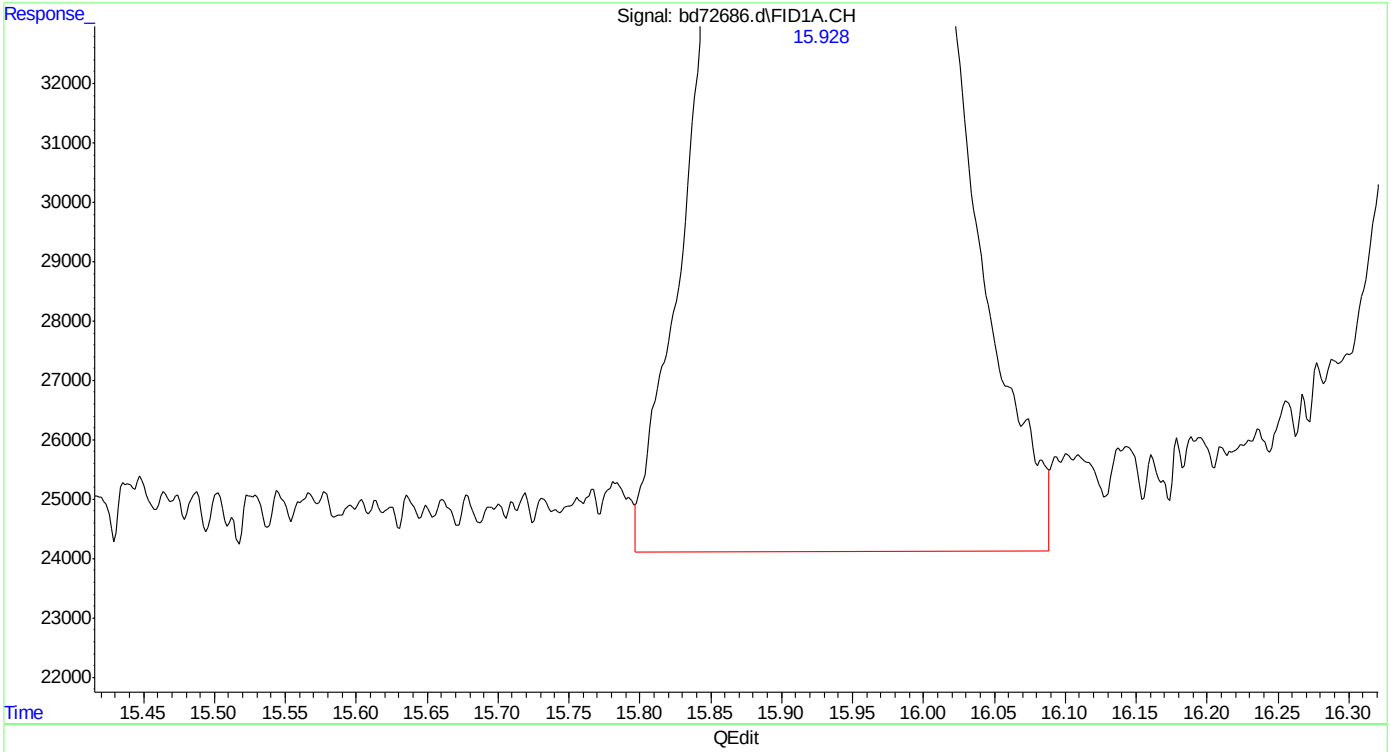
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(5) benzene
15.930min 4.747 ppb
response 3683528

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:29 2016

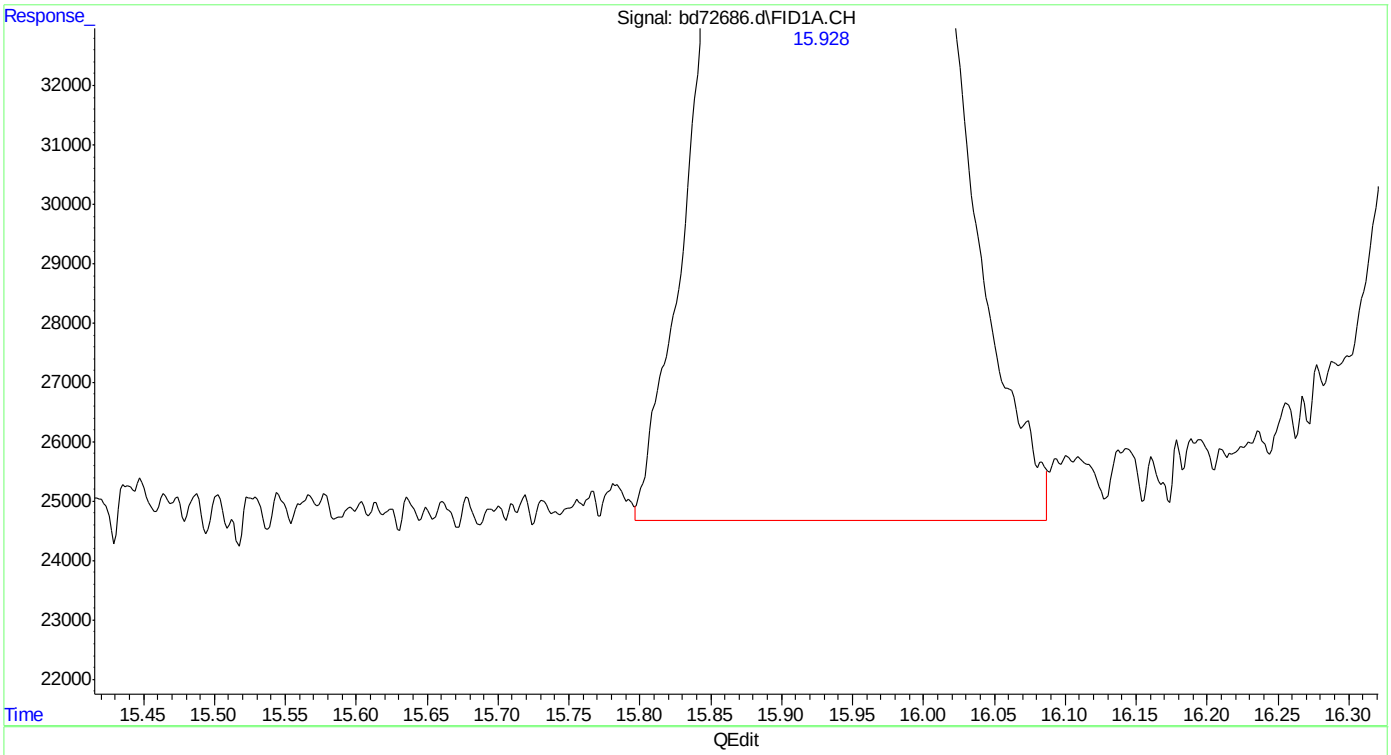
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(5) benzene
15.928min 4.622 ppb m
response 3586407

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:34 2016

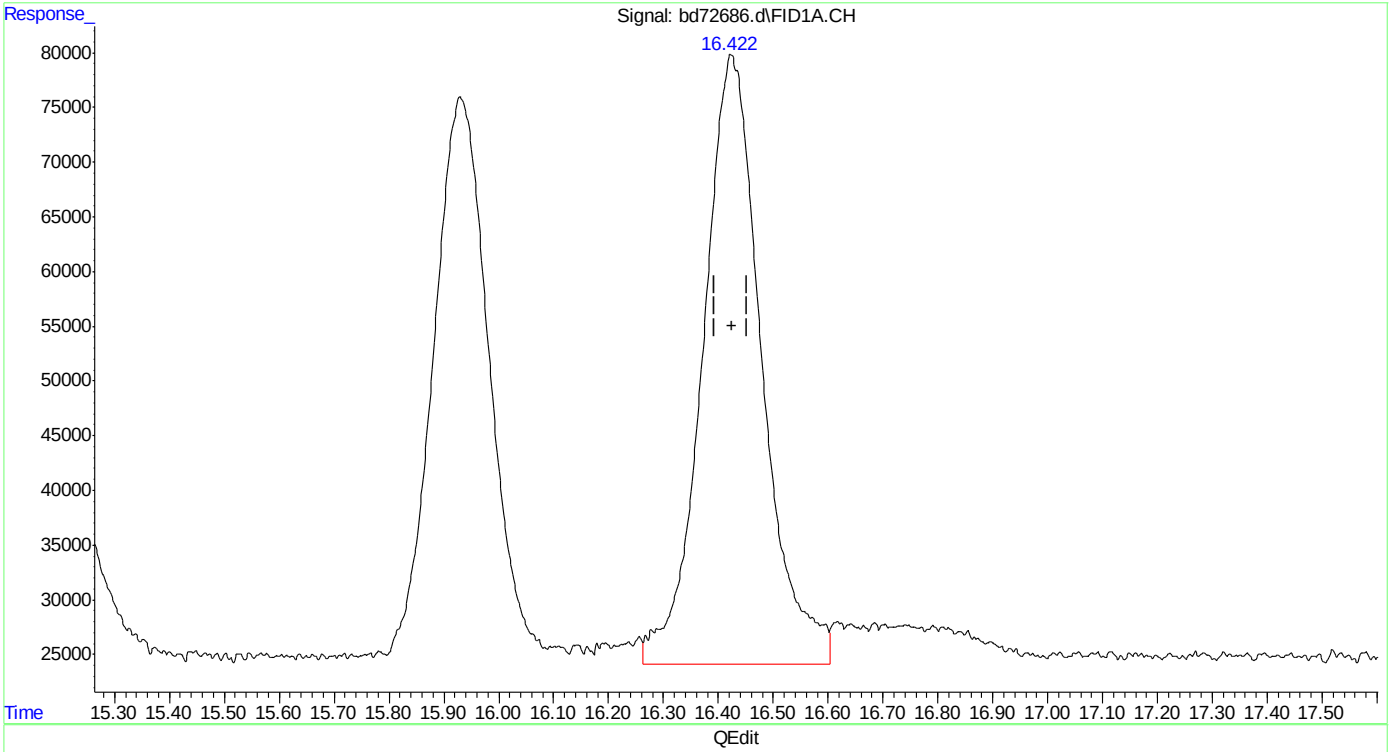
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:21:33
Operator  : tonyf
Sample    : ic3752-5
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 7 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(6) fluorobenzene (s)

16.423min 5.653 ppb

response 4152408

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:06:37 2016

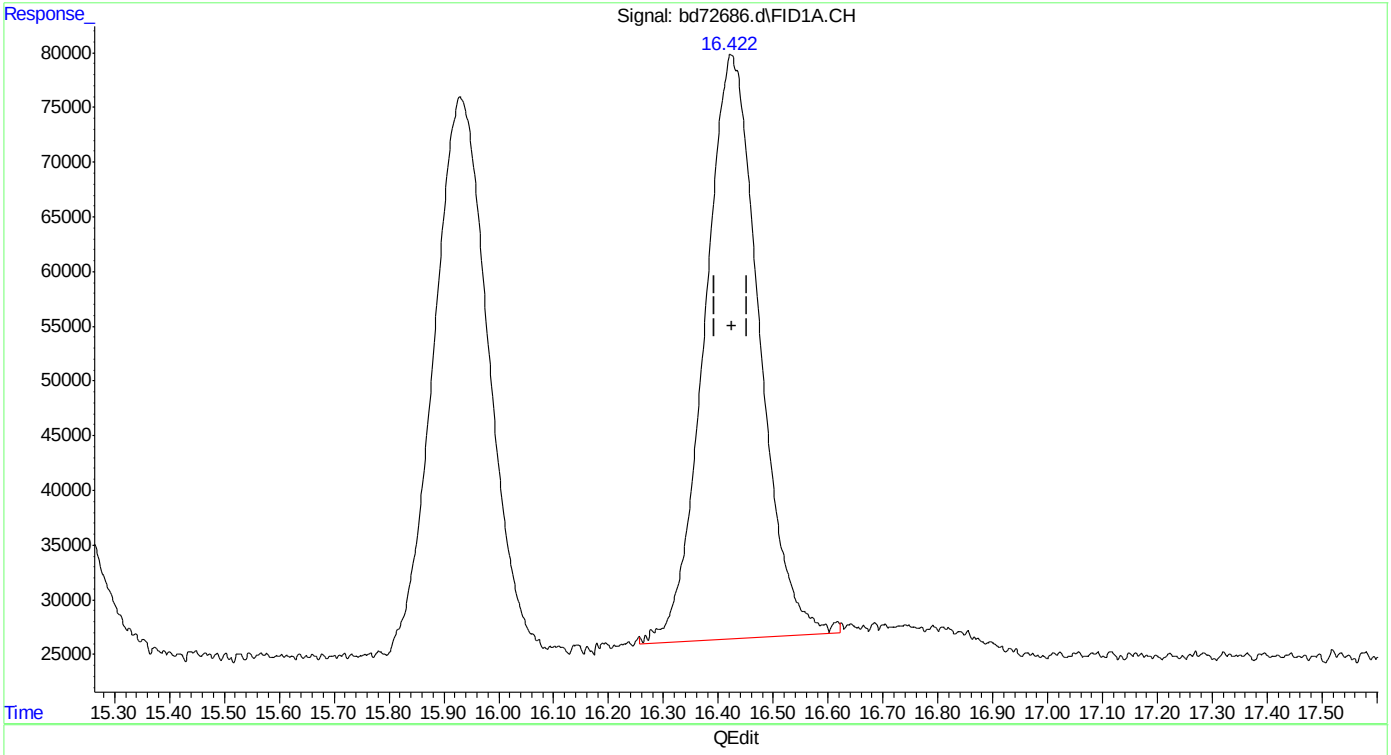
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) fluorobenzene (s)
16.422min 5.021 ppb m
response 3688118

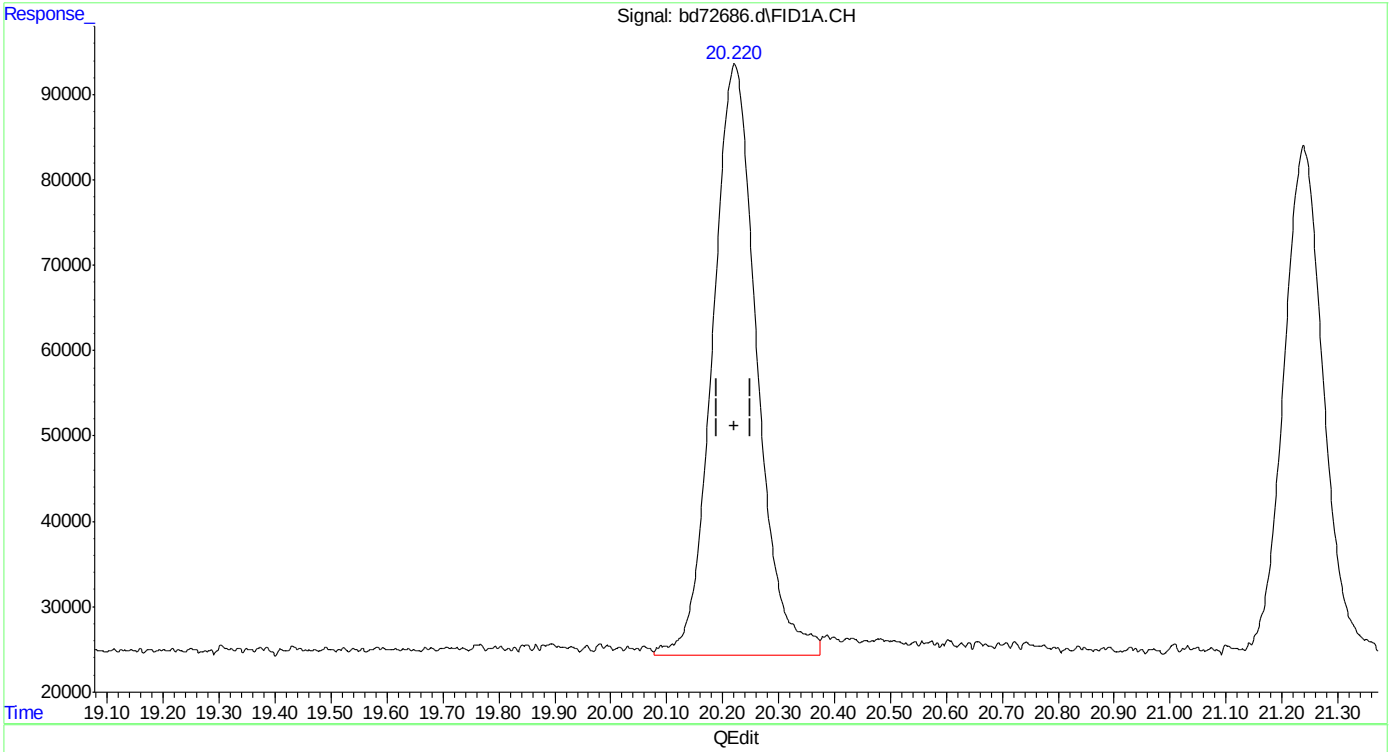
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(8) toluene
20.222min 4.870 ppb
response 3795317

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:48 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(8) toluene
20.220min 4.710 ppb m
response 3670681

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:54 2016

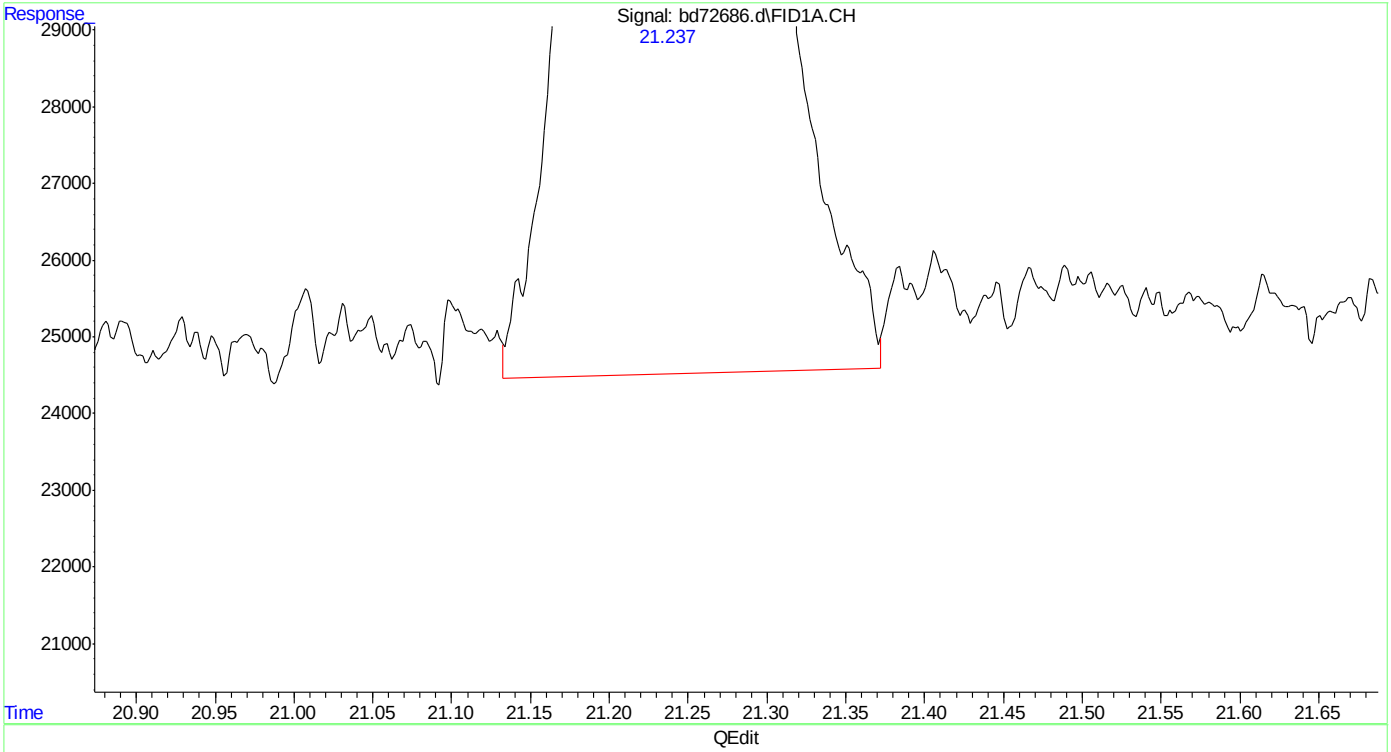
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(9) 2,3,4-trifluorotoluene (s)
21.239min 5.183 ppb
response 2942188

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:59 2016

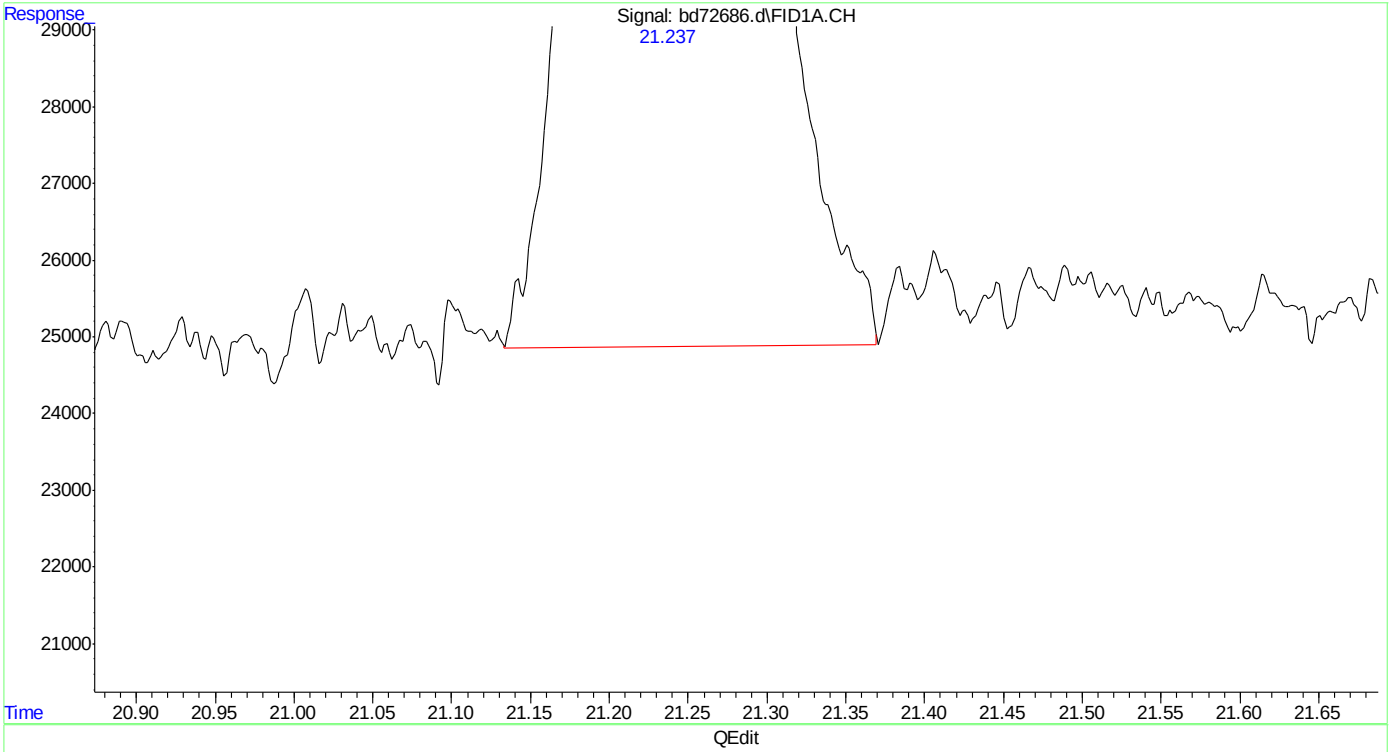
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(9) 2,3,4-trifluorotoluene (s)
21.237min 5.093 ppb m
response 2891402

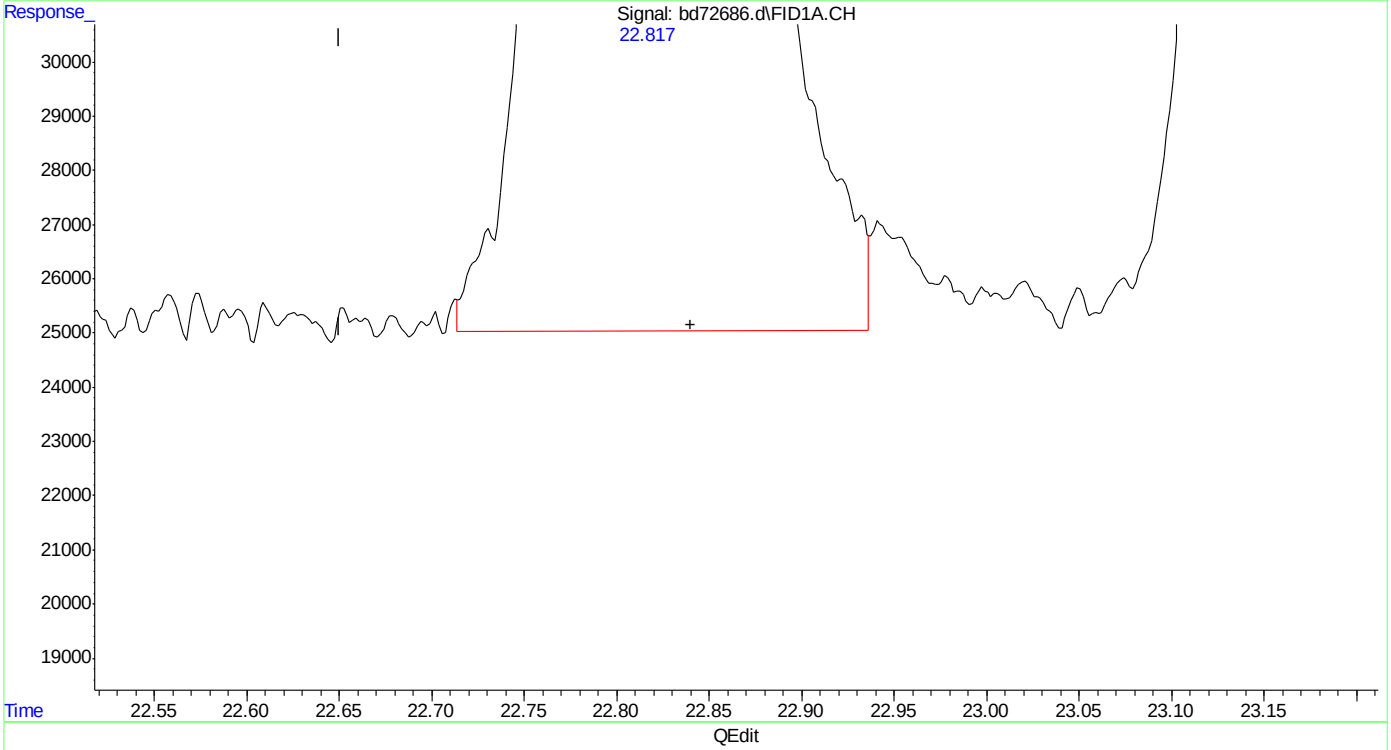
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:05 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(11) rt20/25 (h)
22.840min 5.237 ppb m
response 4228618

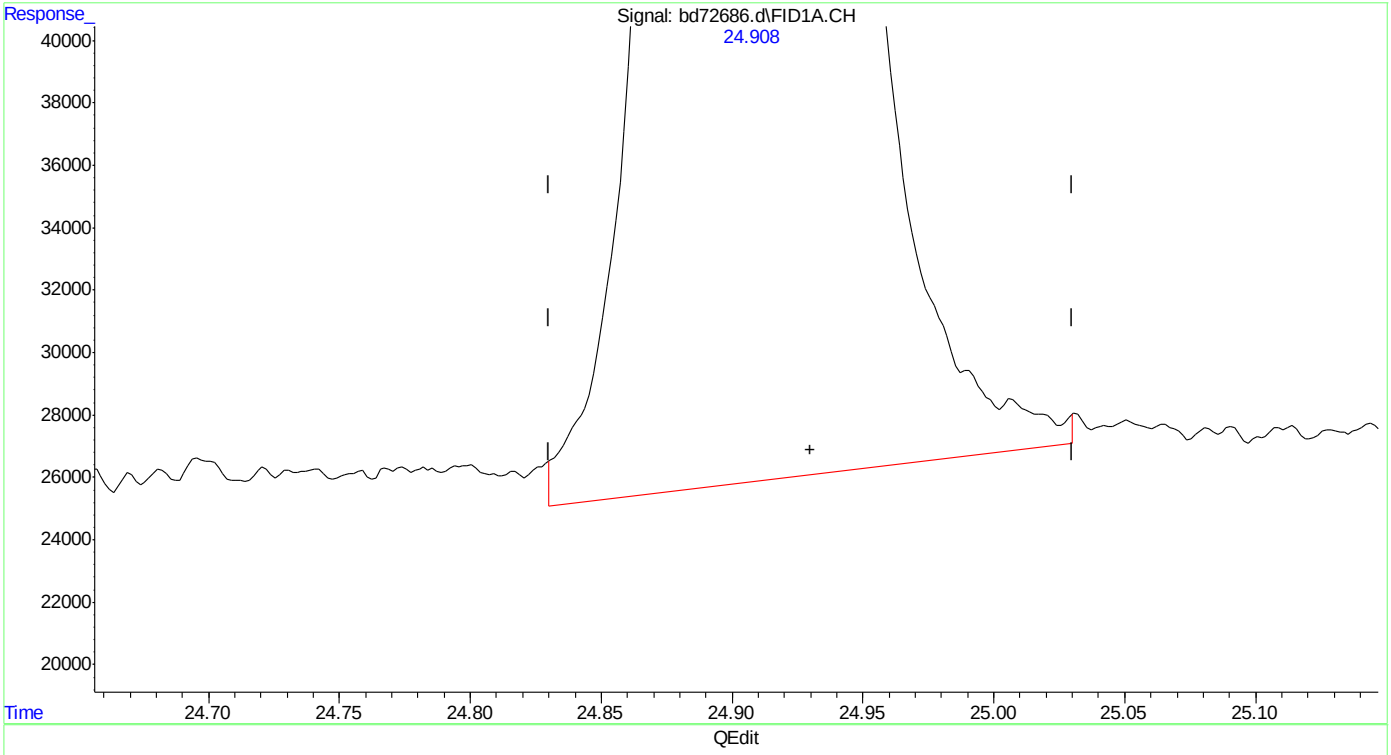
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) decane (h)
24.930min 5.719 ppb
response 4916883

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:26 2016

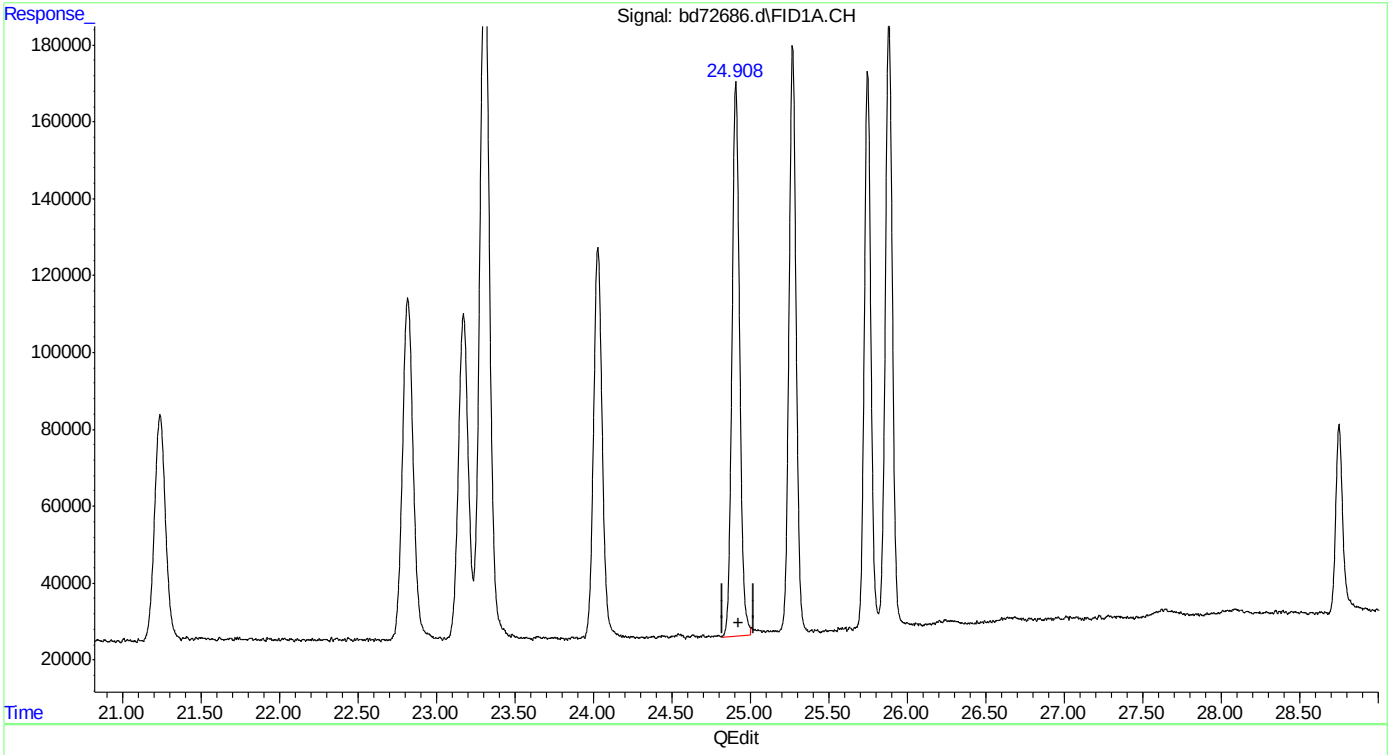
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) decane (h)
24.930min 5.664 ppb m
response 4869338

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:50 2016

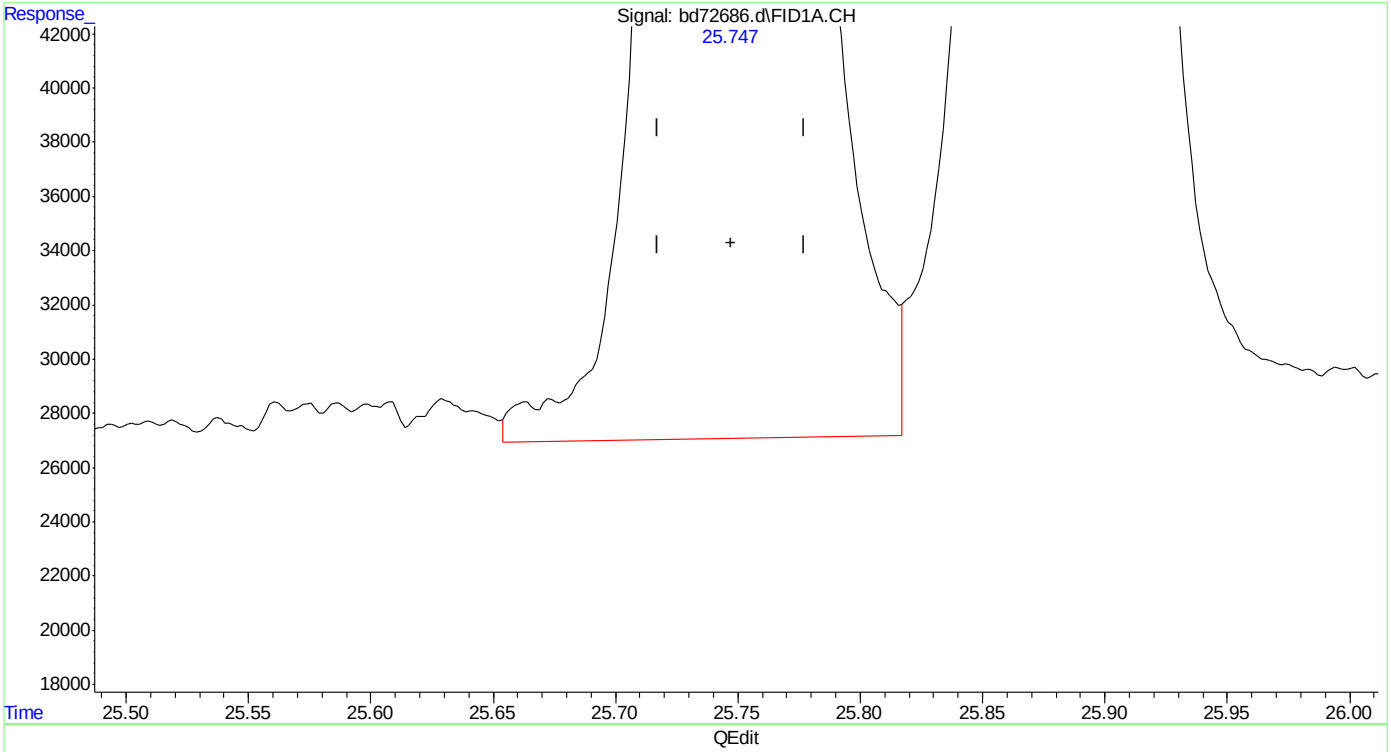
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 1,2,4-trimethylbenzene
25.748min 4.985 ppb
response 4343408

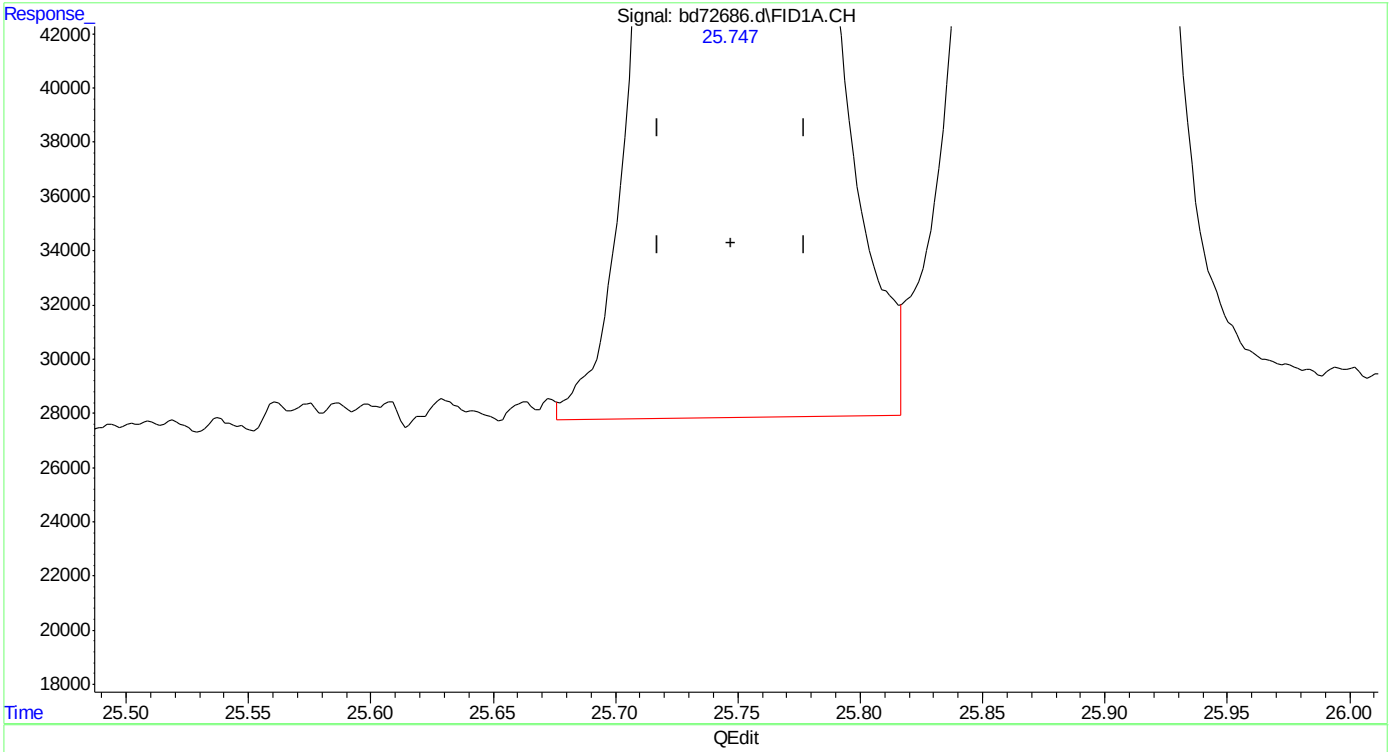
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 1,2,4-trimethylbenzene
25.747min 4.888 ppb m
response 4259354

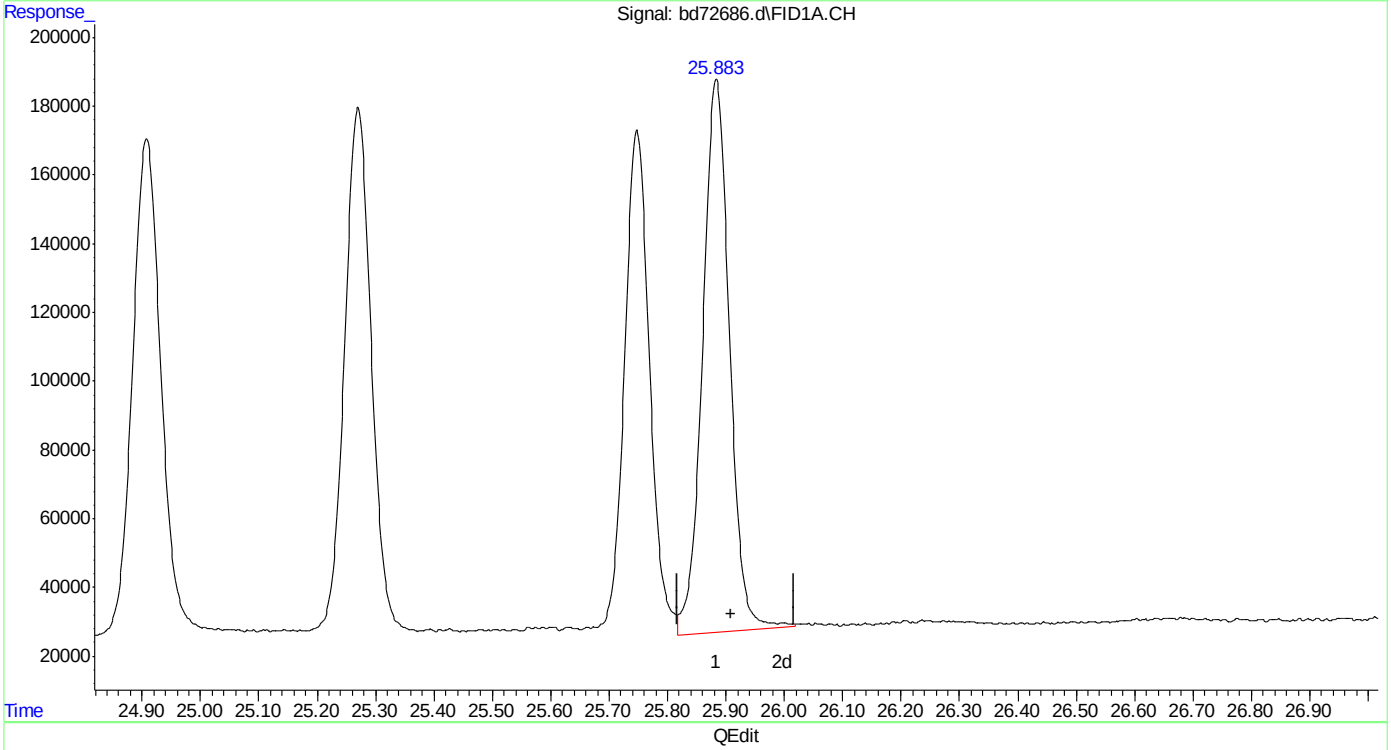
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:05 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) butylcyclohexane (h)
25.908min 5.606 ppb m
response 5140578

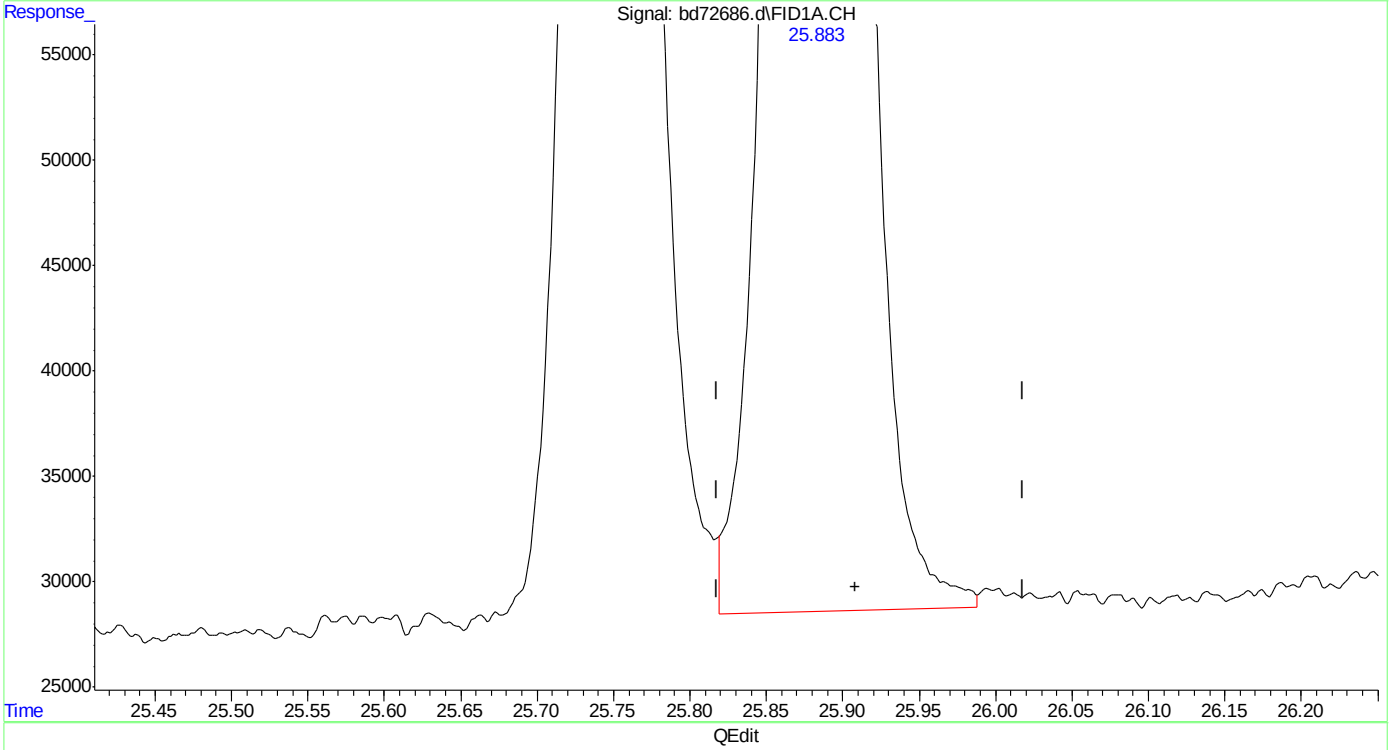
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) butylcyclohexane (h)
25.908min 5.418 ppb m
response 4968205

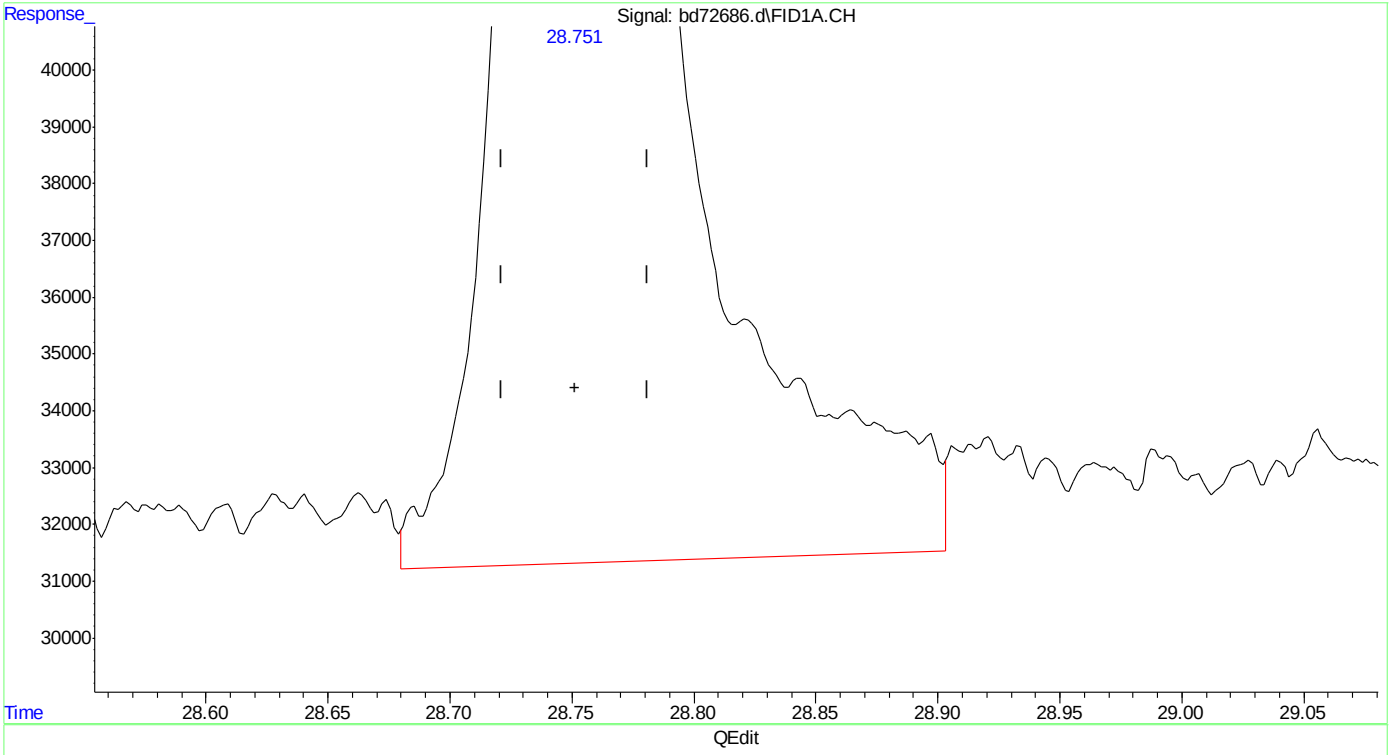
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:18 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.752min 3.971 ppb
response 1699084

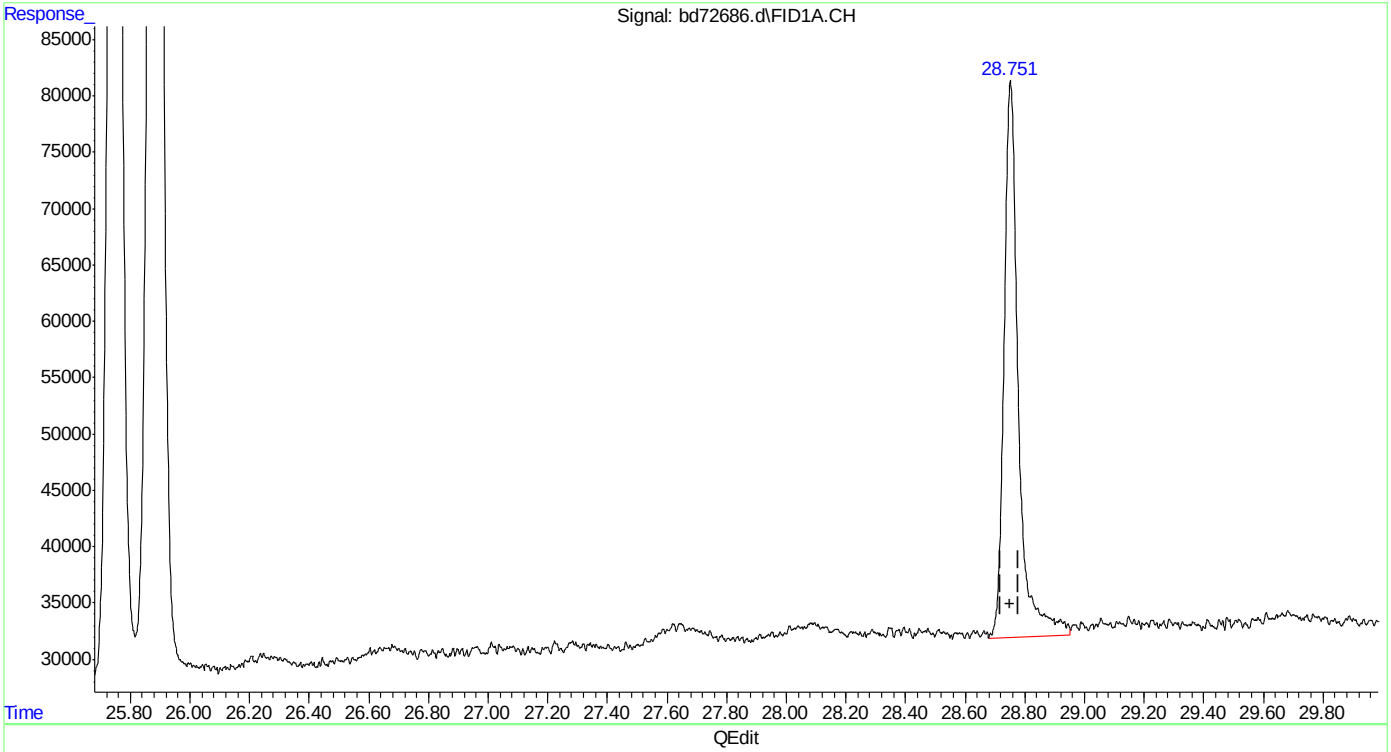
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.751min 3.869 ppb m
response 1655353

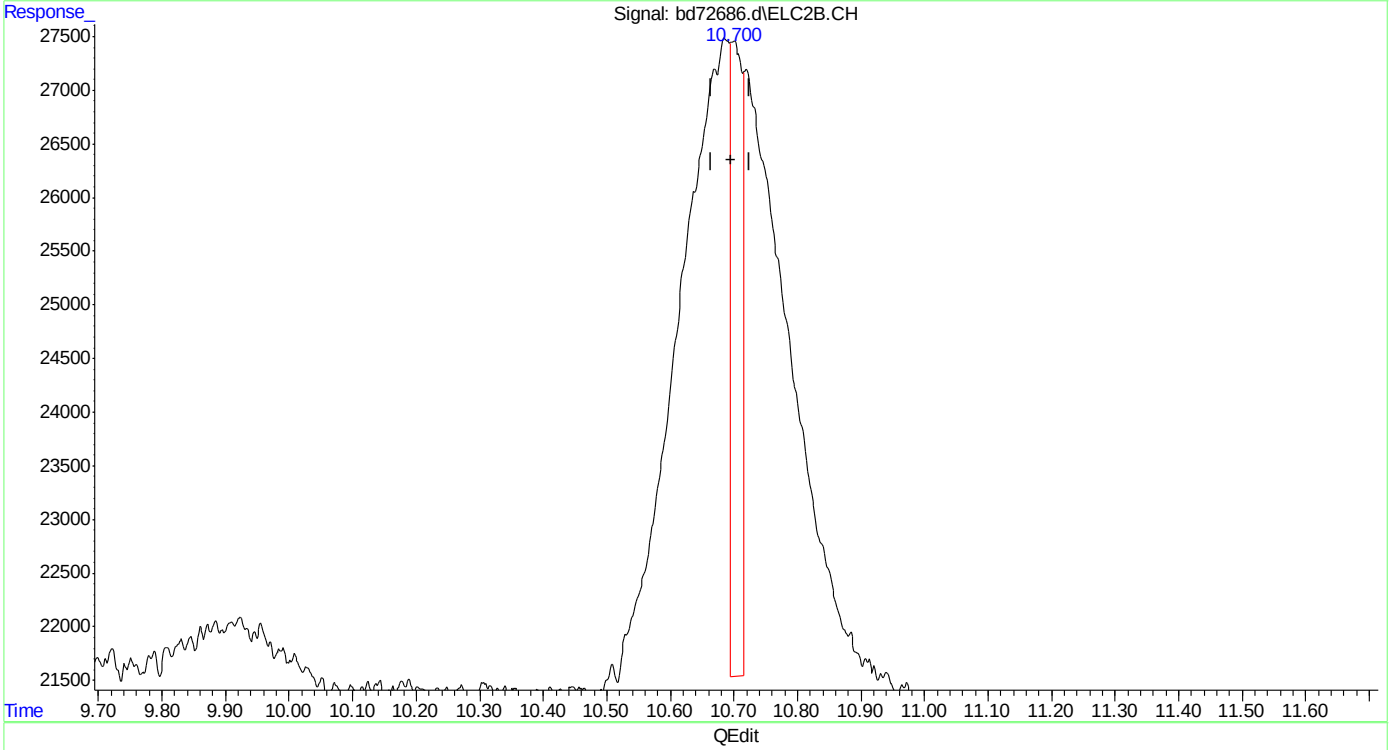
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.700min 0.479 ppb
response 74623

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:43 2016

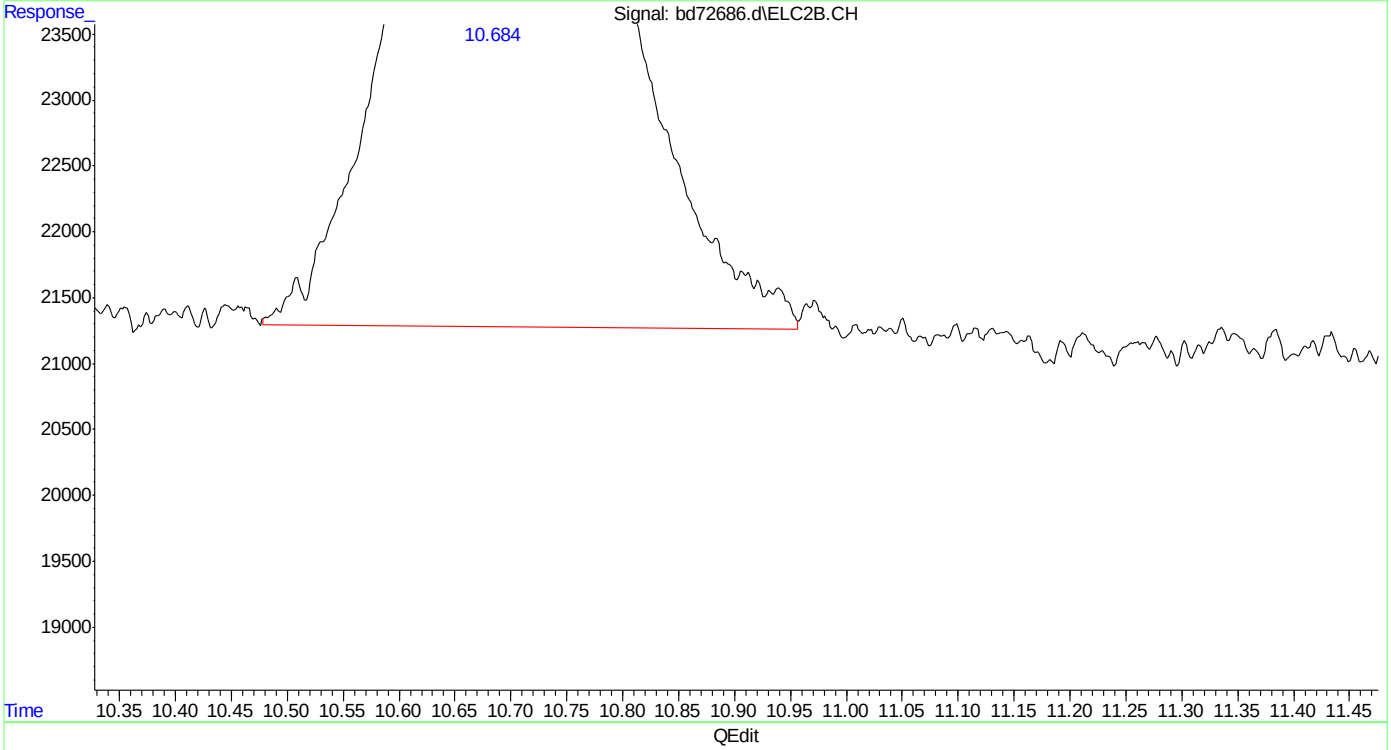
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.684min 4.817 ppb m
response 750779

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:58 2016

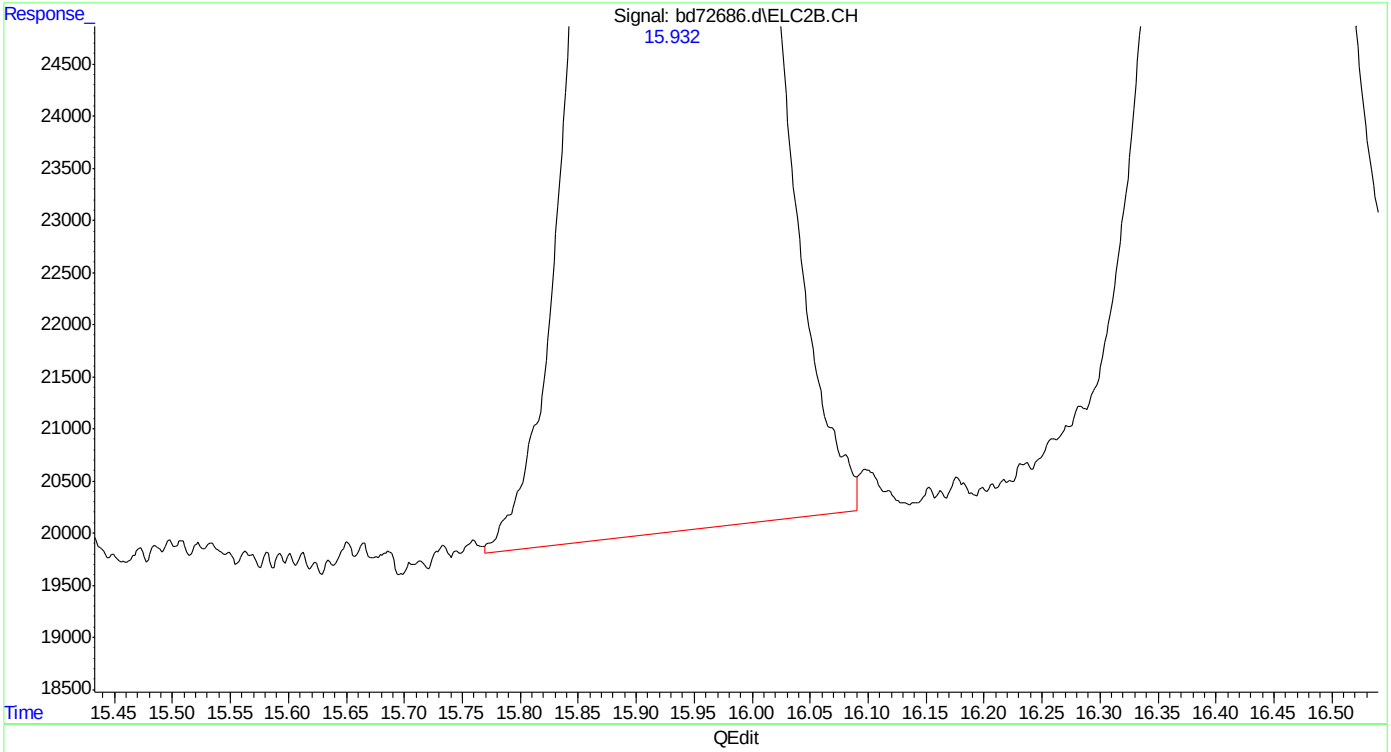
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) benzene #2
15.932min 4.786 ppb
response 2231303

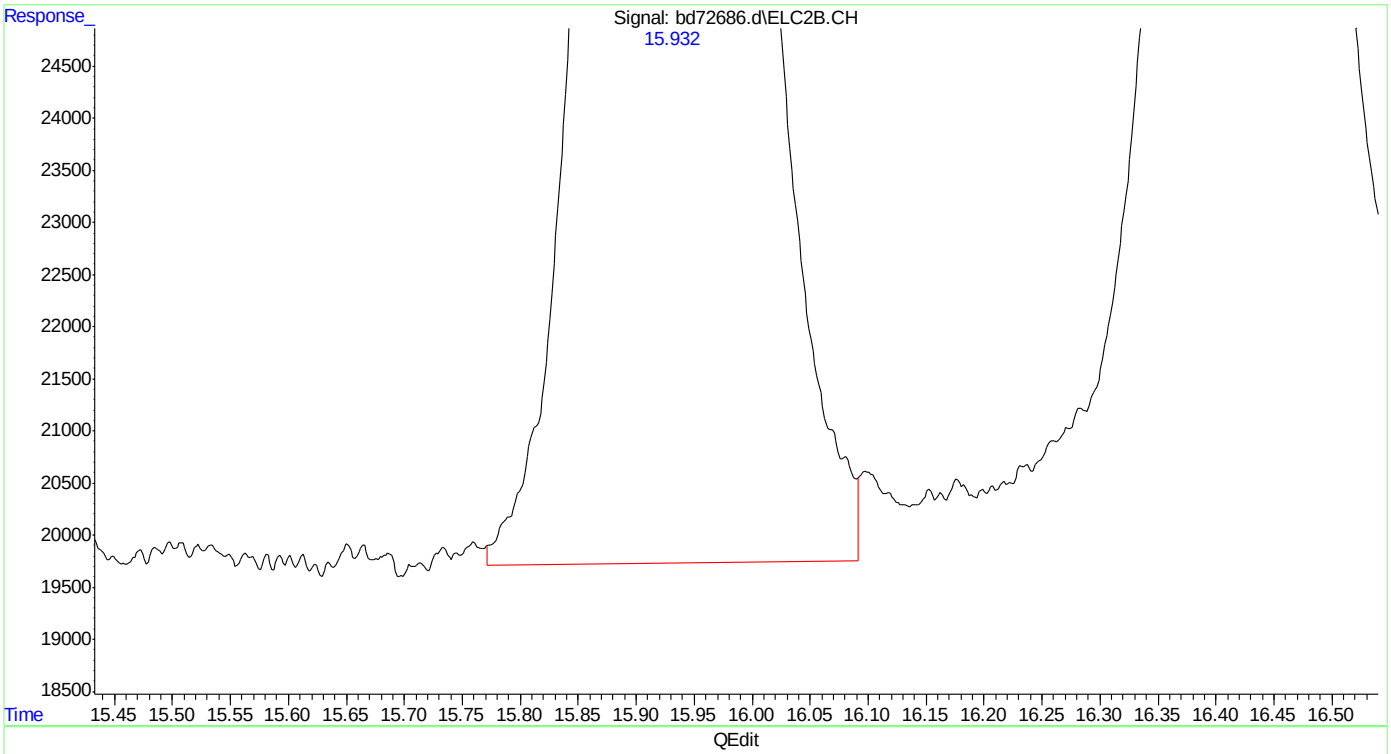
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:05 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) benzene #2
15.932min 4.901 ppb m
response 2284991

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:14 2016

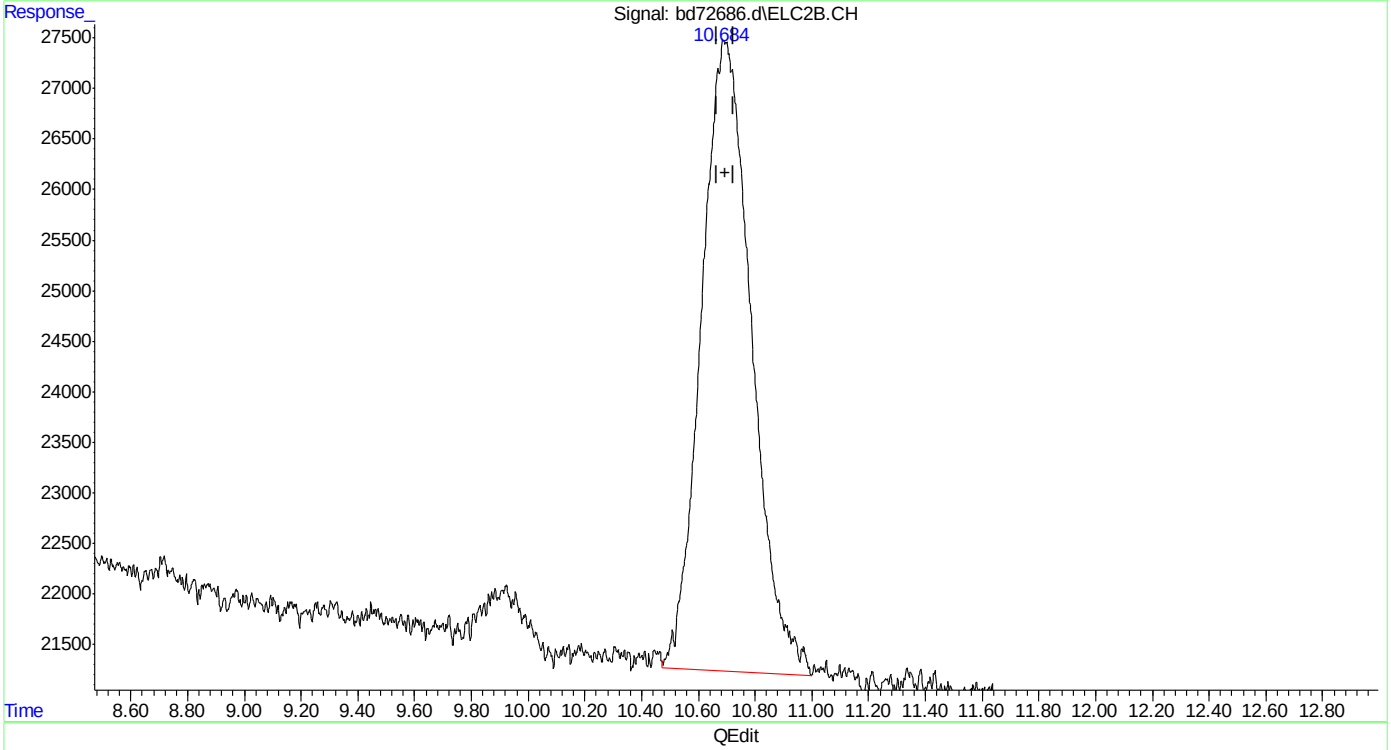
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.684min 4.929 ppb m
response 768191

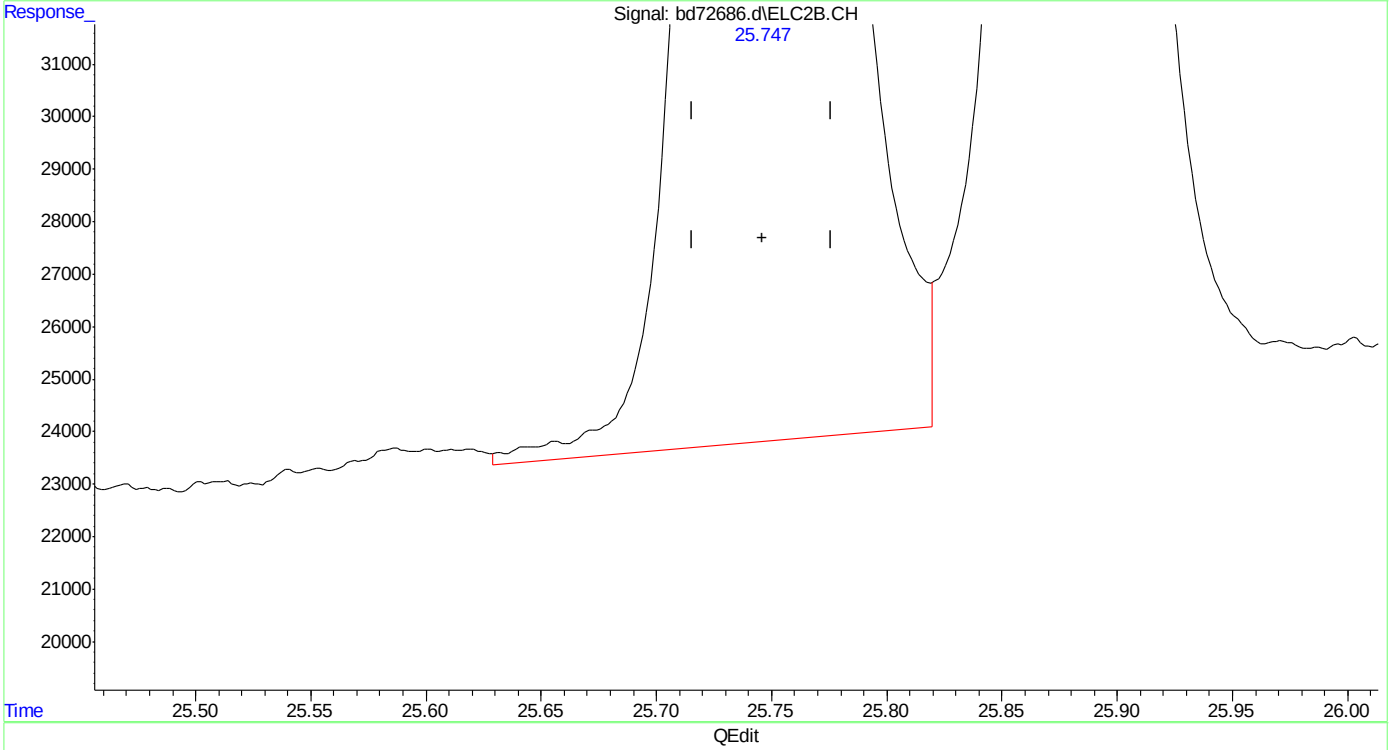
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:27 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.747min 5.006 ppb
response 2305795

(+) = Expected Retention Time

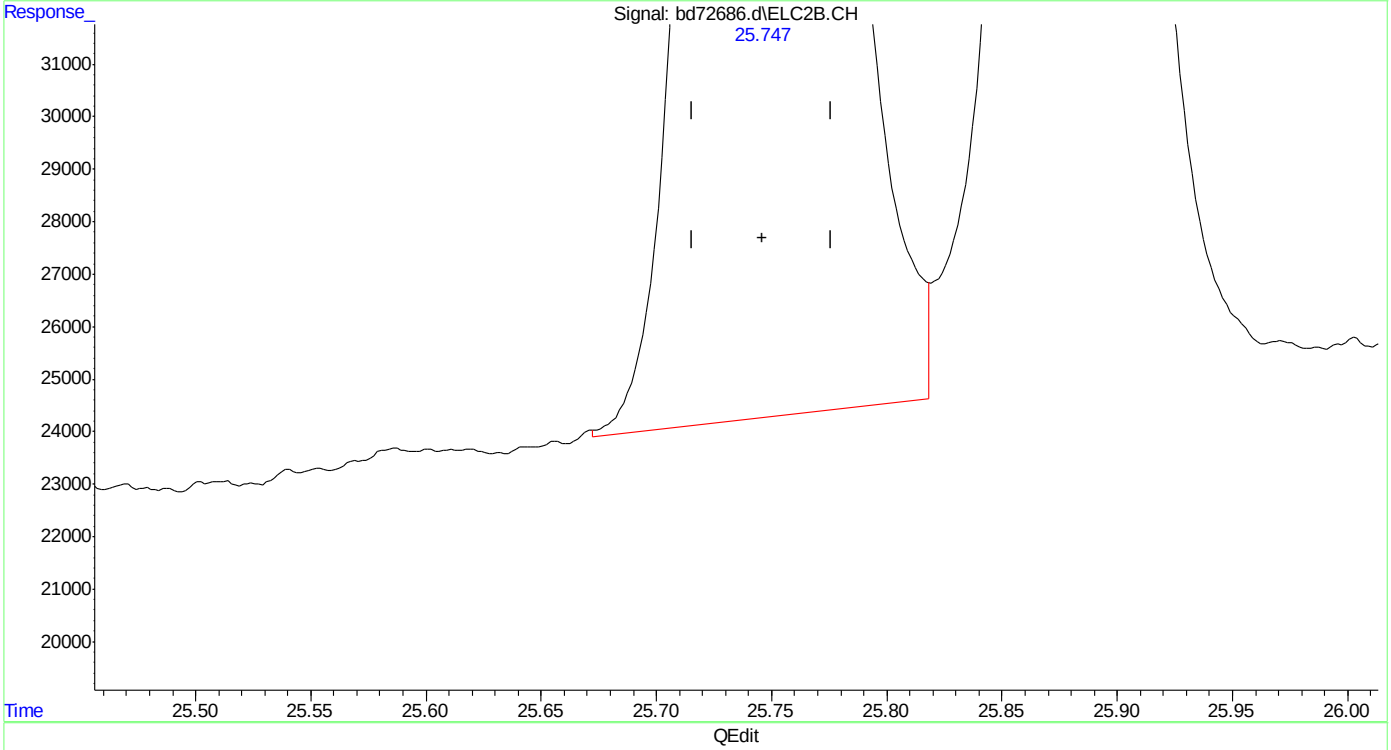
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.747min 4.900 ppb m
response 2257211

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:51 2016 Page: 1

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3572-2 (Sig #1); ic3752-2 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:49:46 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	16.422	1412065	1.927 ppb	m
Spiked Amount 50.000		Recovery =	3.85%	
9) s 2,3,4-trifluorotoluene	21.238	1015129	1.784 ppb	m
Spiked Amount 50.000		Recovery =	3.57%	
25) s fluorobenzene #2	16.427	710788	2.004 ppb	m
Spiked Amount 50.000		Recovery =	4.01%	
27) s 2,3,4-trifluorotoluen...	21.241	375383	1.825 ppb	
Spiked Amount 50.000		Recovery =	3.65%	
Target Compounds				
1) h rt5.5-7	7.470	1181221	2.090 ppb	m
2) h rt7/10	9.920	1423940	2.215 ppb	m
3) mtbe	10.690	573857	1.980 ppb	m
4) h rt10/13	15.200	1543987	2.195 ppb	m
5) benzene	15.935	1508329	1.942 ppb	m
8) toluene	20.223	1483744	1.905 ppb	m
11) h rt20/25	22.840	2002361	2.479 ppb	m
13) ethylbenzene	23.173	1597064	2.033 ppb	
14) m,p-xylene	23.310	3360397	4.108 ppb	
15) o-xylene	24.031	1696702	2.058 ppb	
16) h decane	24.930	2500365	2.905 ppb	m
17) t 1,3,5-trimethylbenzene	25.270	1822082	1.890 ppb	m
18) 1,2,4-trimethylbenzene	25.749	1811882	2.081 ppb	m
19) h butylcyclohexane	25.908	2416889	2.641 ppb	m
20) naphthalene	28.755	633669	1.476 ppb	m
23) mtbe #2	10.705	319987	2.043 ppb	m
24) benzene #2	15.931	943892	2.028 ppb	
26) toluene #2	20.223	898559	2.095 ppb	
28) ethylbenzene #2	23.174	826337	2.111 ppb	
29) m,p-xylene #2	23.309	2027328	4.251 ppb	
30) o-xylene #2	24.028	873175	2.137 ppb	m
31) t 1,3,5-trimethylbenzen...	25.271	1355890	2.068 ppb	
32) 1,2,4-trimethylbenzen...	25.748	998600	2.174 ppb	m
33) naphthalene #2	28.753	472807	1.541 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	993959	2.162 ppb	m

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

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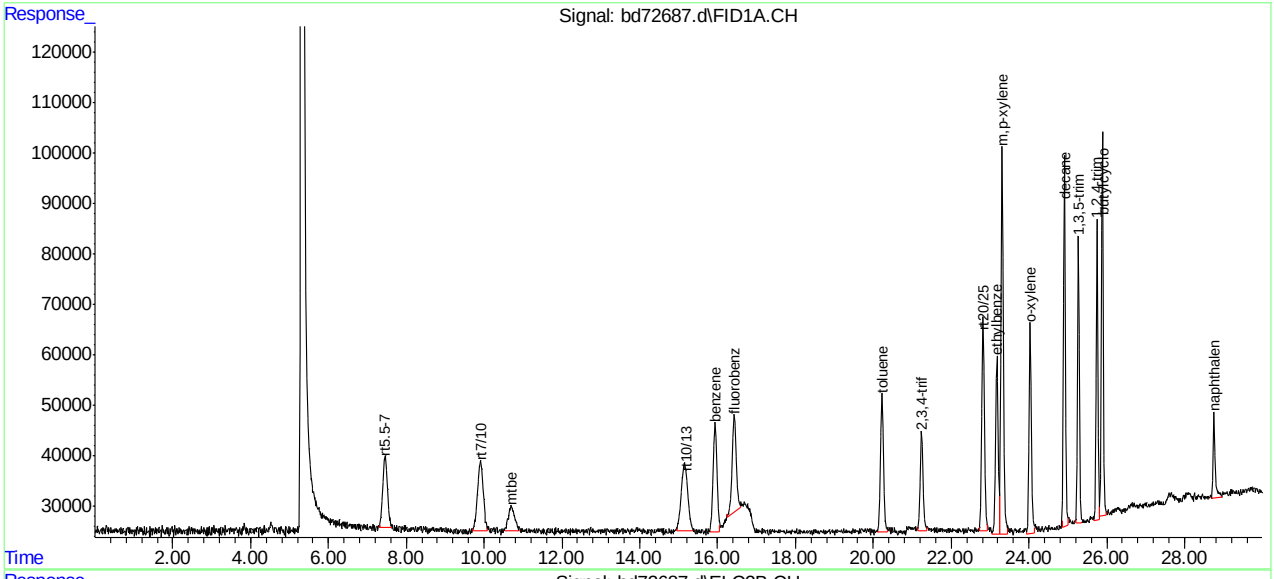
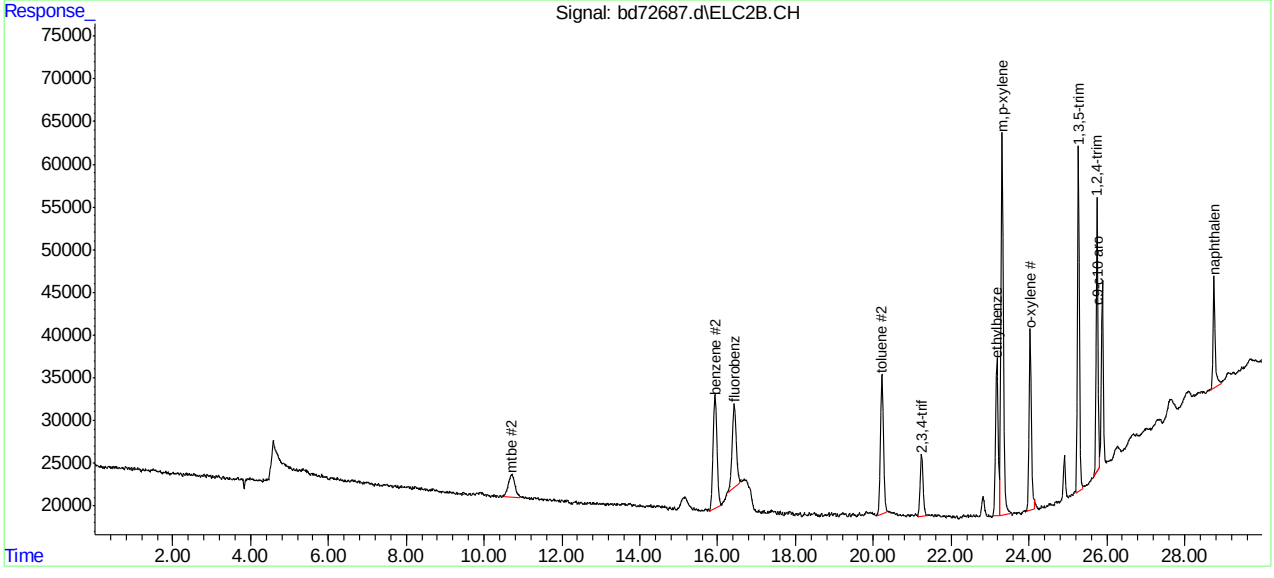
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3572-2 (Sig #1); ic3752-2 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:49:46 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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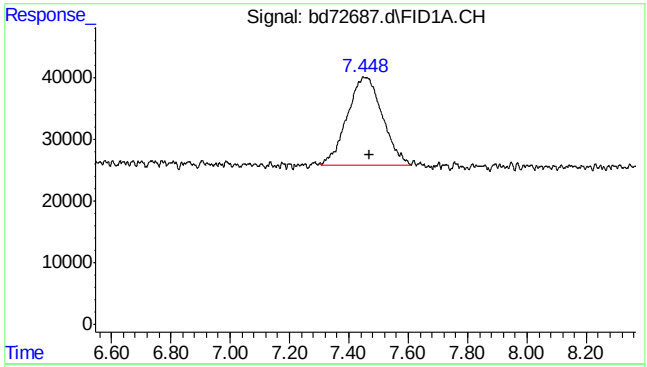
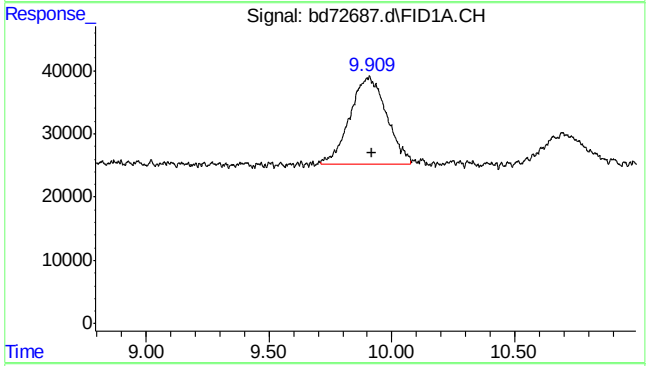


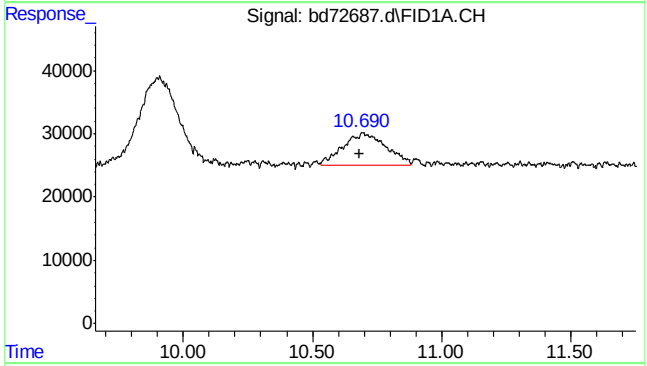
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 1181221
Conc: 2.09 ppb m



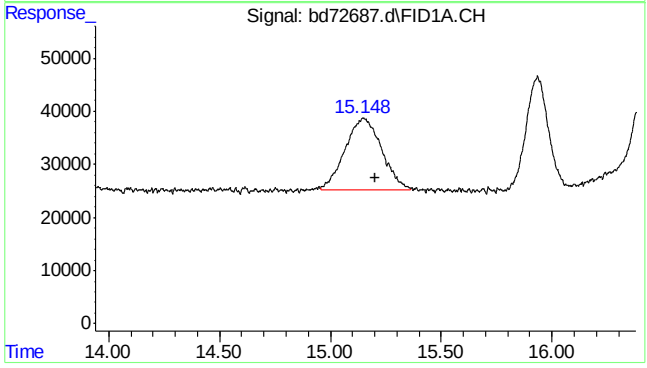
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 1423940
Conc: 2.22 ppb m



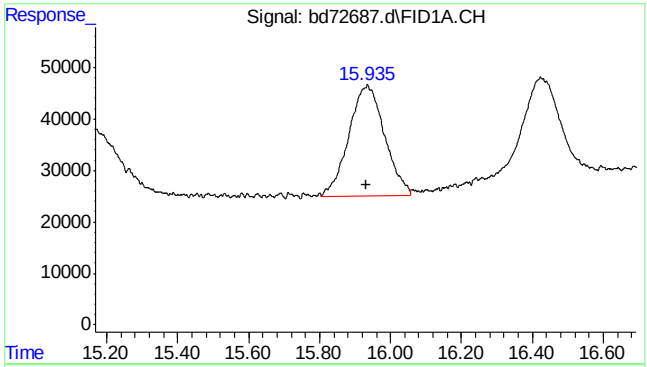
#3 mtbe

R.T.: 10.690 min
Delta R.T.: 0.007 min
Response: 573857
Conc: 1.98 ppb m



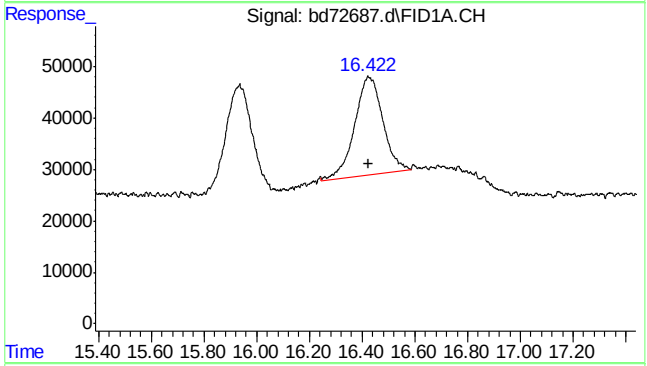
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1543987
Conc: 2.19 ppb m



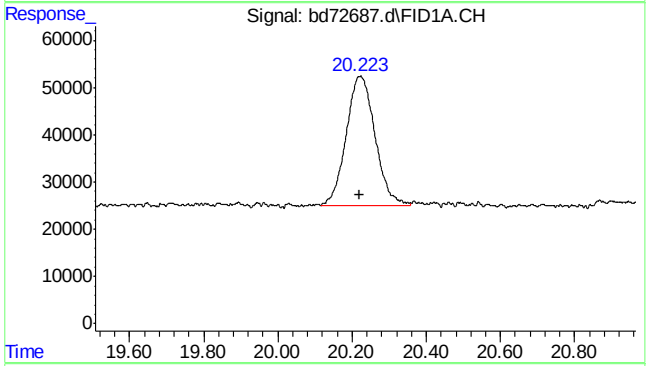
#5 benzene

R.T.: 15.935 min
Delta R.T.: 0.002 min
Response: 1508329
Conc: 1.94 ppb m



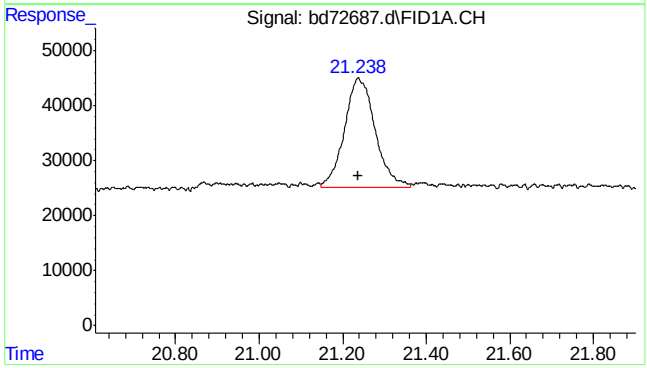
#6 fluorobenzene

R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 1412065
Conc: 1.93 ppb m



#8 toluene

R.T.: 20.223 min
Delta R.T.: 0.003 min
Response: 1483744
Conc: 1.90 ppb m



#9 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 1015129
Conc: 1.78 ppb m

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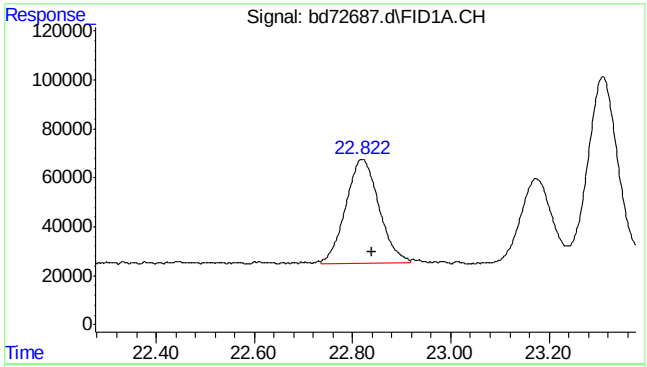
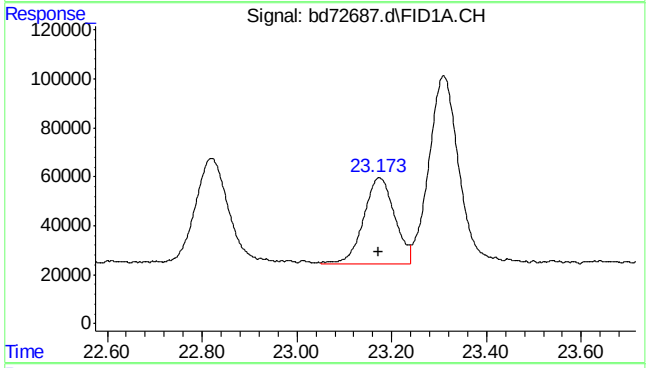


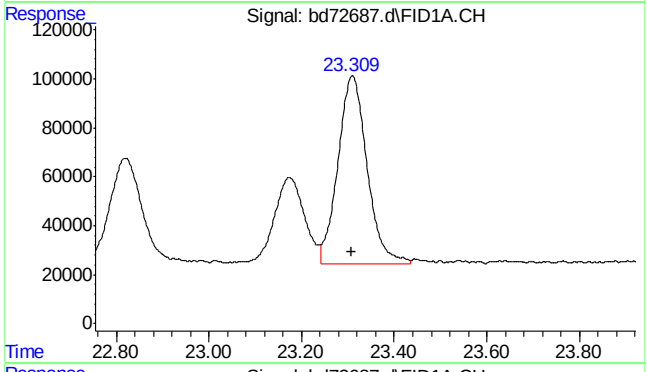
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 2002361
Conc: 2.48 ppb m



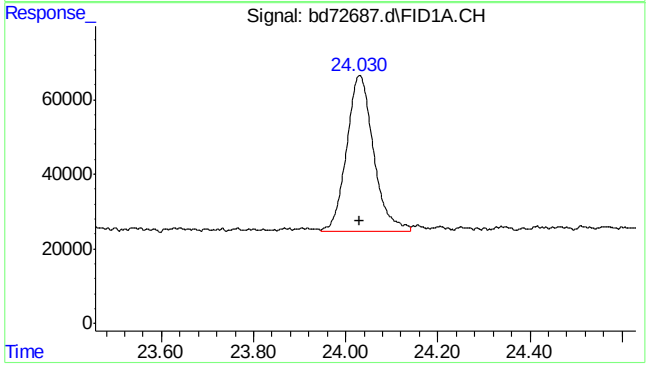
#13 ethylbenzene

R.T.: 23.173 min
Delta R.T.: 0.001 min
Response: 1597064
Conc: 2.03 ppb



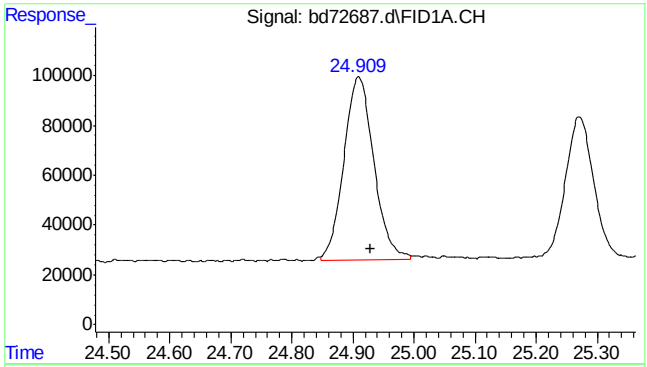
#14 m,p-xylene

R.T.: 23.310 min
Delta R.T.: 0.003 min
Response: 3360397
Conc: 4.11 ppb



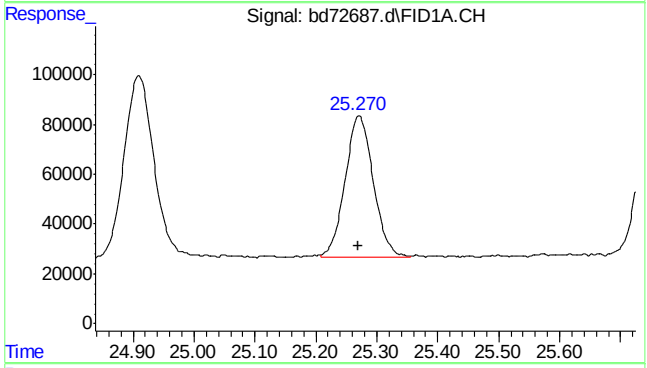
#15 o-xylene

R.T.: 24.031 min
Delta R.T.: 0.002 min
Response: 1696702
Conc: 2.06 ppb



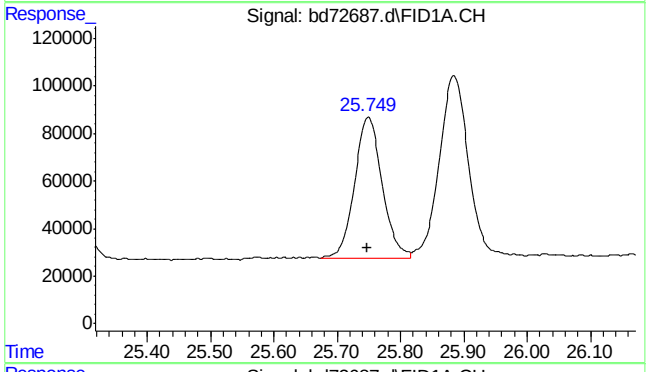
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 2500365
Conc: 2.91 ppb m



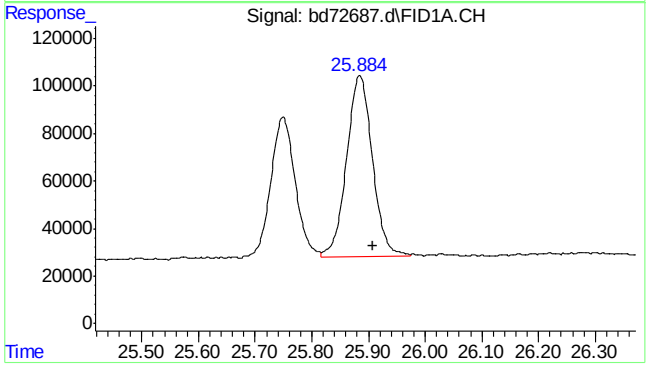
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 1822082
Conc: 1.89 ppb m



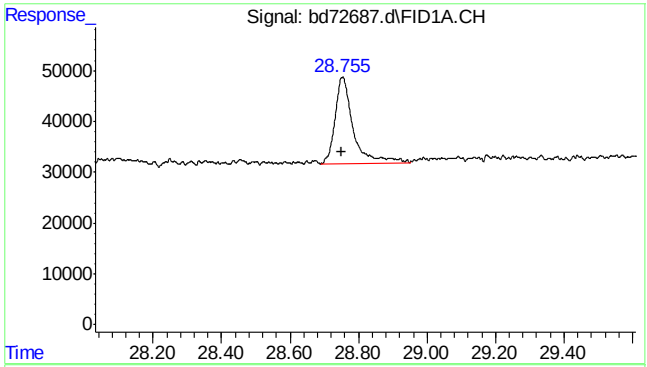
#18 1,2,4-trimethylbenzene

R.T.: 25.749 min
Delta R.T.: 0.002 min
Response: 1811882
Conc: 2.08 ppb m



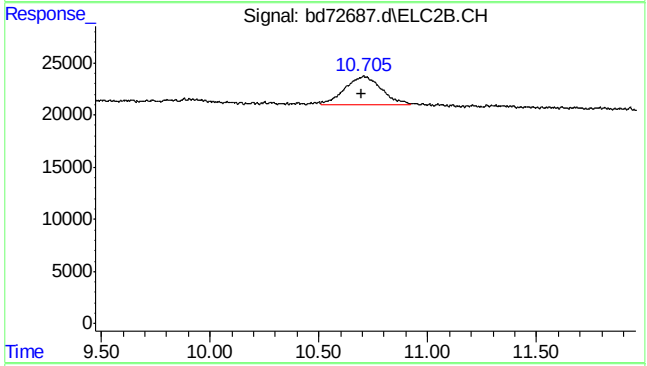
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 2416889
Conc: 2.64 ppb m



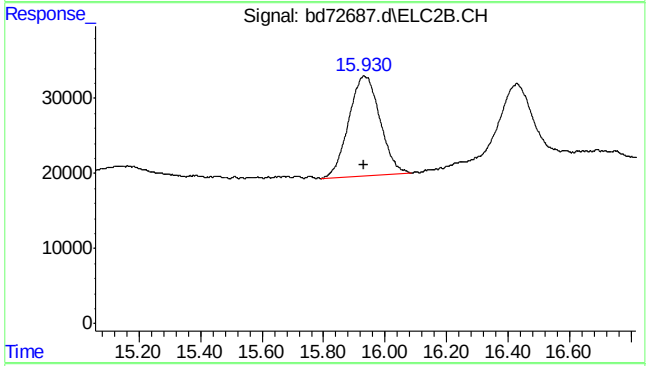
#20 naphthalene

R.T.: 28.755 min
Delta R.T.: 0.004 min
Response: 633669
Conc: 1.48 ppb m



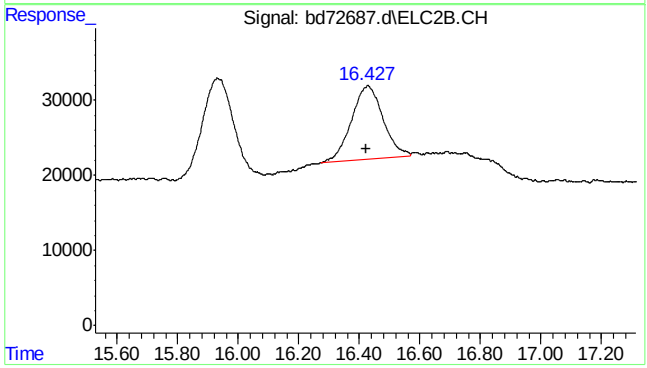
#23 mtbe #2

R.T.: 10.705 min
Delta R.T.: 0.009 min
Response: 319987
Conc: 2.04 ppb m



#24 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 943892
Conc: 2.03 ppb



#25 fluorobenzene #2

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 710788
Conc: 2.00 ppb m

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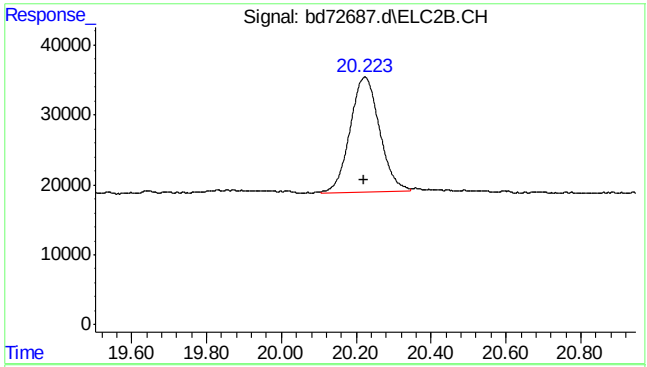
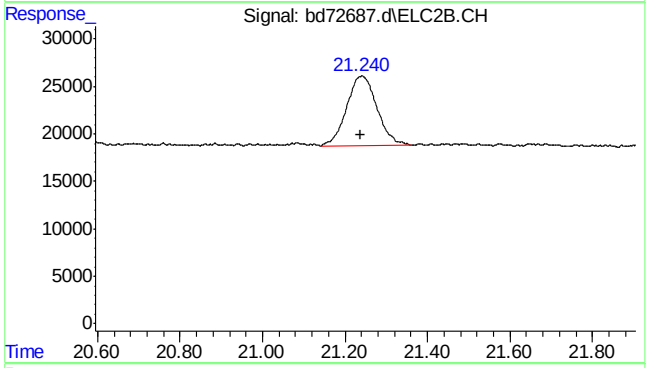


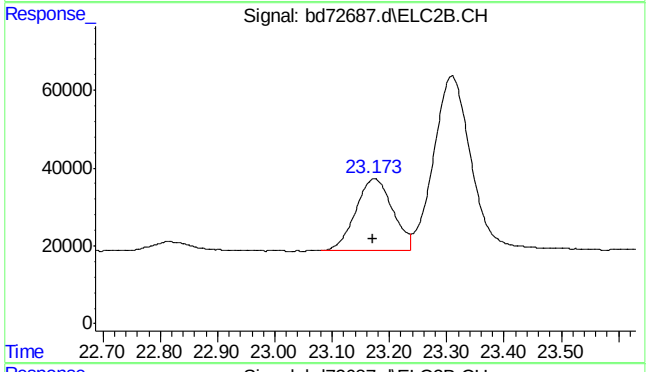
#26 toluene #2

R.T.: 20.223 min
Delta R.T.: 0.002 min
Response: 898559
Conc: 2.10 ppb



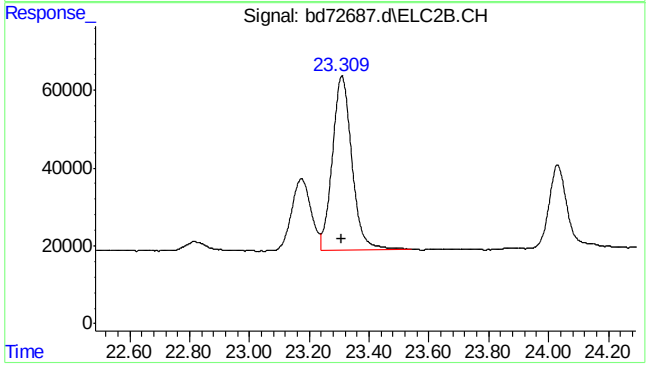
#27 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 375383
Conc: 1.82 ppb



#28 ethylbenzene #2

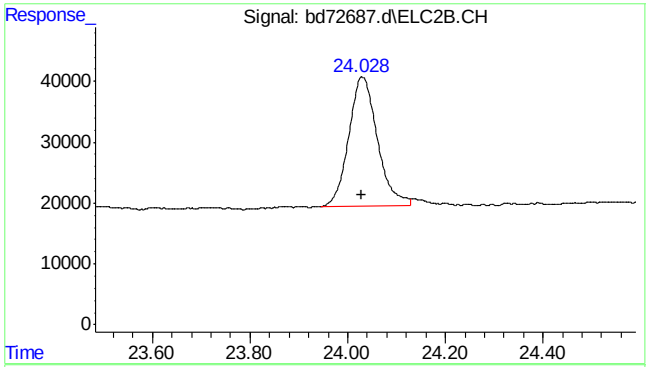
R.T.: 23.174 min
Delta R.T.: 0.002 min
Response: 826337
Conc: 2.11 ppb



#29 m,p-xylene #2

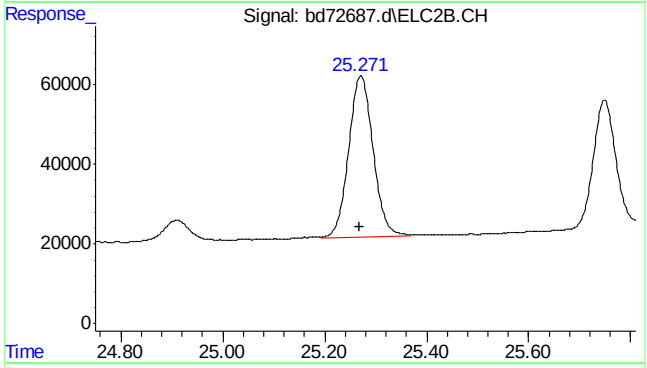
R.T.: 23.309 min
Delta R.T.: 0.002 min
Response: 2027328
Conc: 4.25 ppb

SGS ACCUTEST MC45897



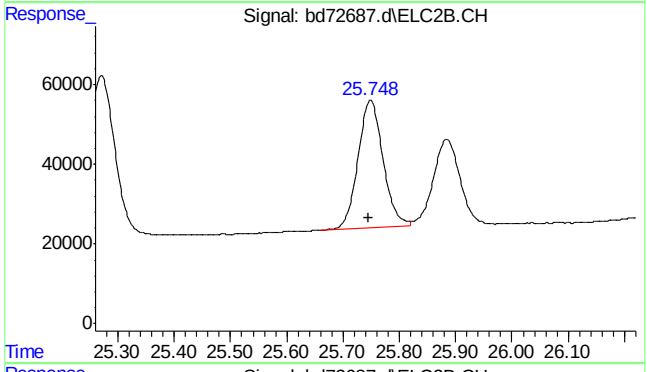
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 873175
Conc: 2.14 ppb m



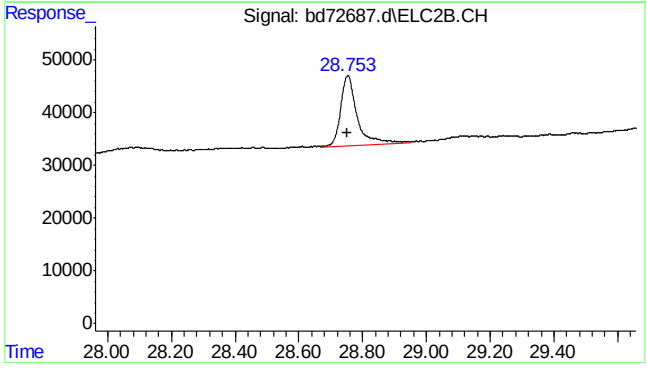
#31 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 1355890
Conc: 2.07 ppb



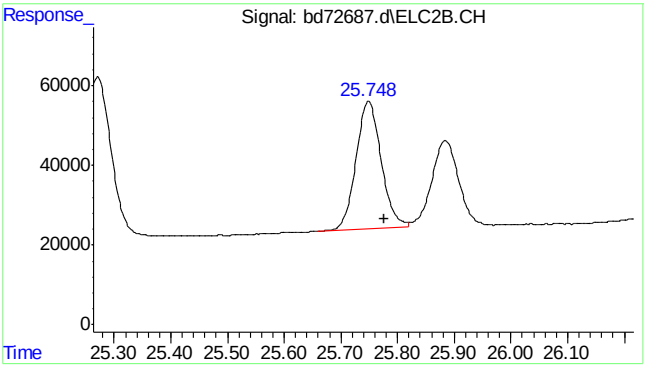
#32 1,2,4-trimethylbenzene #2

R.T.: 25.748 min
Delta R.T.: 0.002 min
Response: 998600
Conc: 2.17 ppb m



#33 naphthalene #2

R.T.: 28.753 min
Delta R.T.: 0.003 min
Response: 472807
Conc: 1.54 ppb m



#34 c9-c10 arom as 1,2,4-tmb

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	993959
Conc:	2.16 ppb m

7.5.8

7

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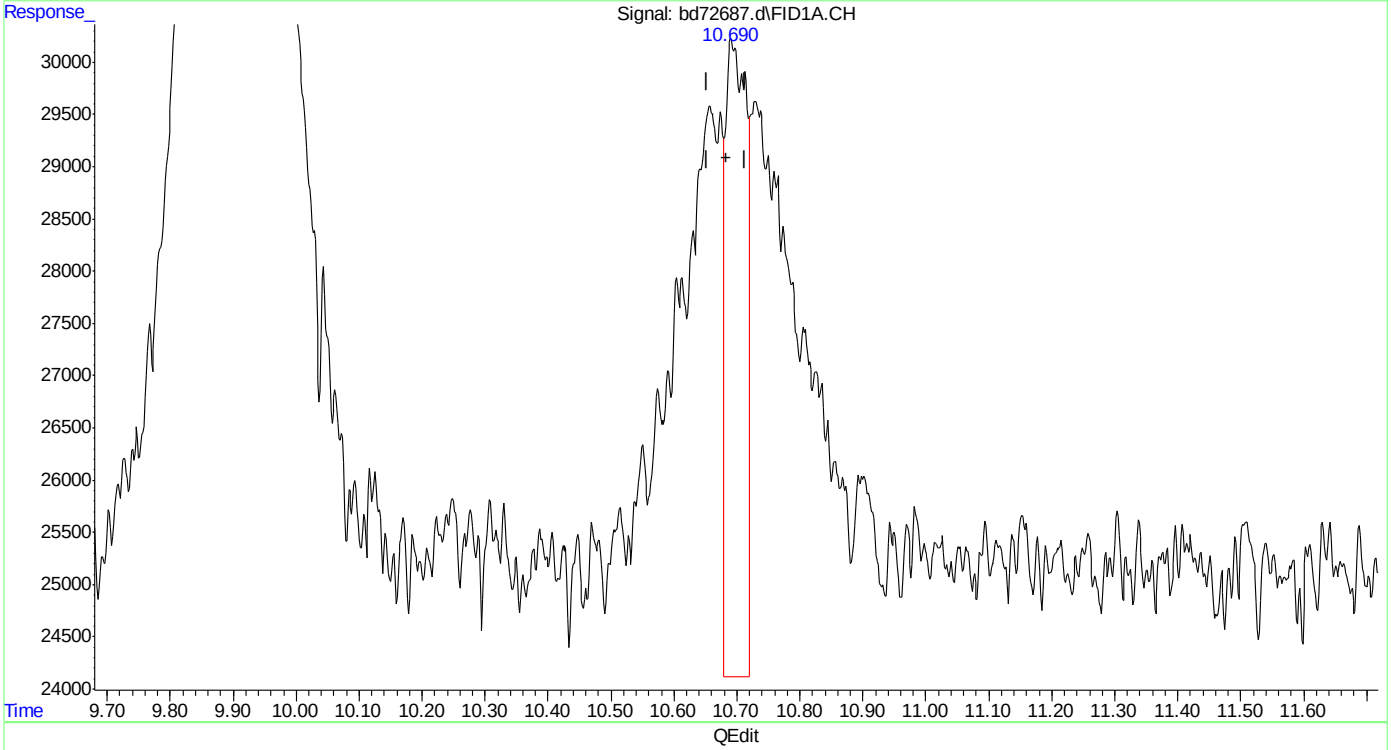
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
10.692min 0.480 ppb
response 139132

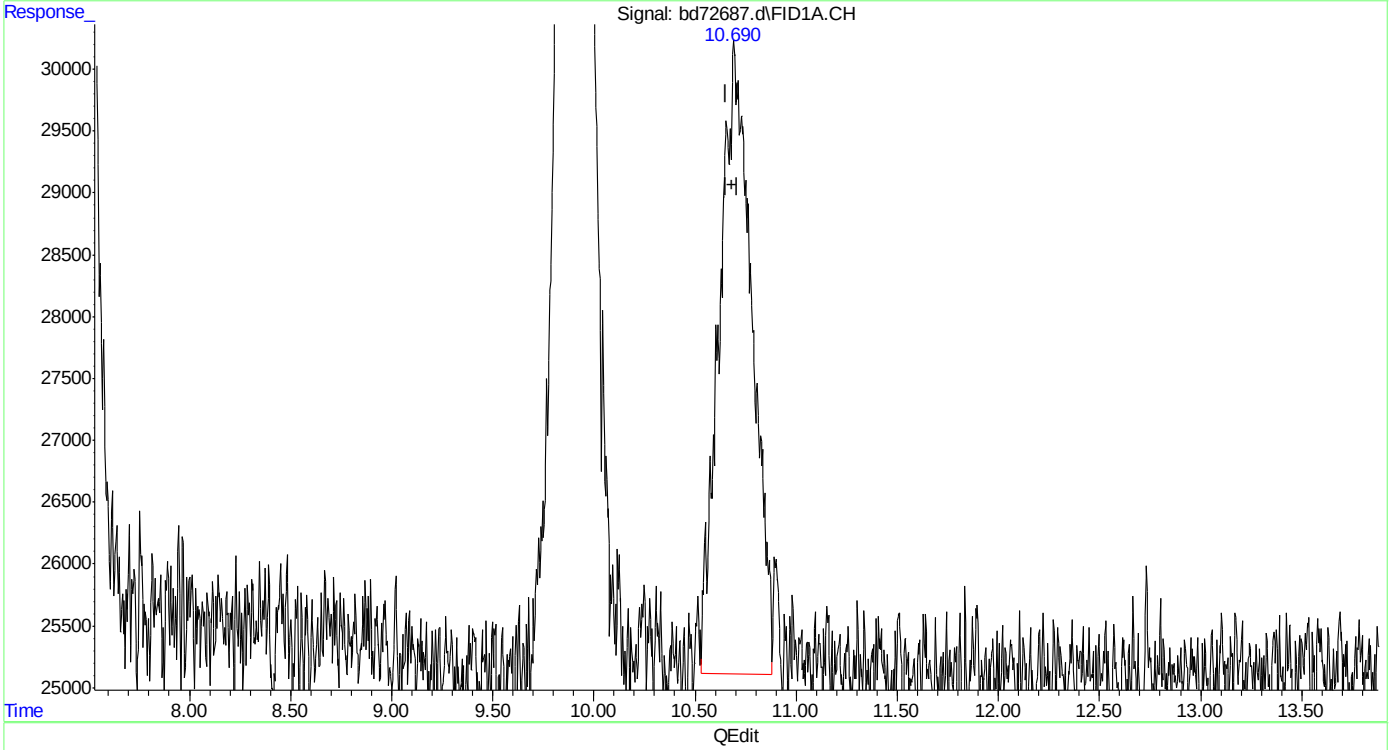
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:42:08 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(3) mtbe
10.690min 1.980 ppb m
response 573857

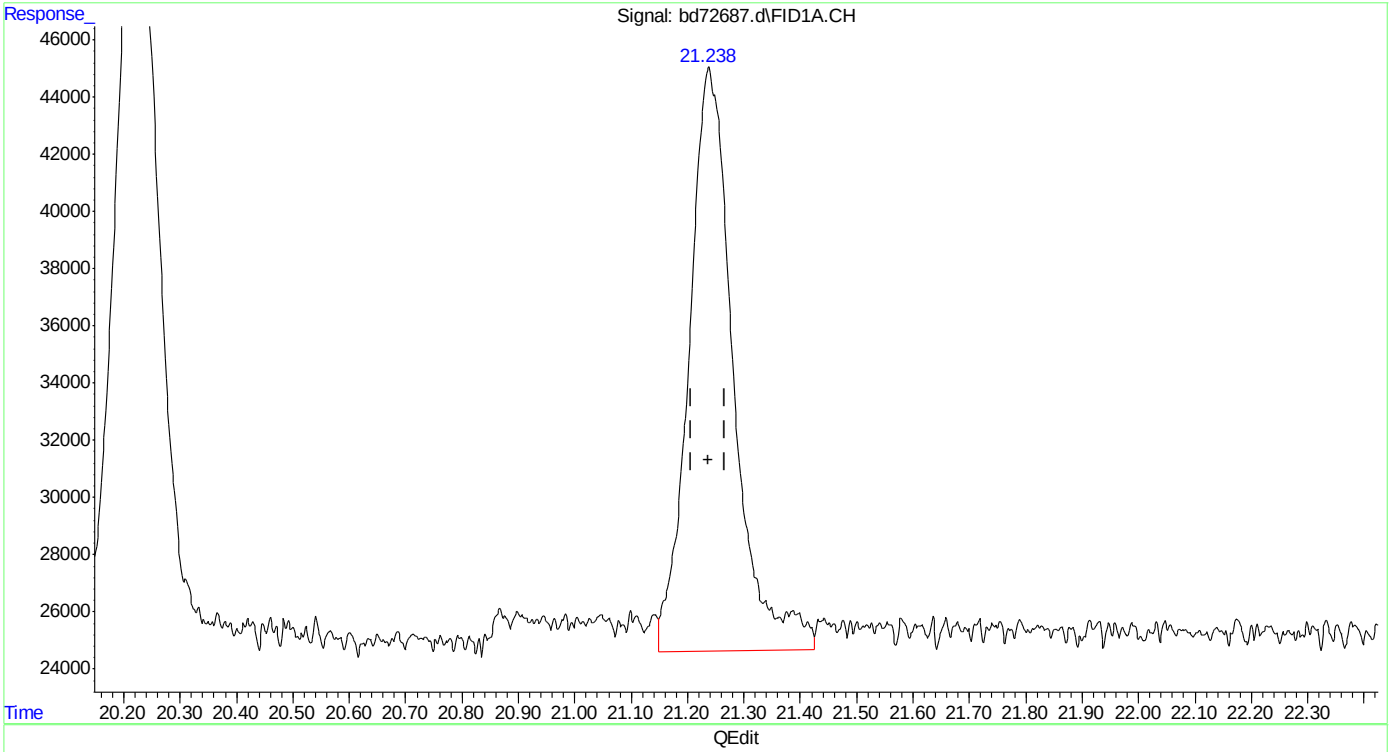
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:42:22 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:58:46
Operator  : tonyf
Sample    : ic3752-2
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 8 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(9) 2,3,4-trifluorotoluene (s)

21.238min 1.972 ppb

response 1122116

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:43:28 2016

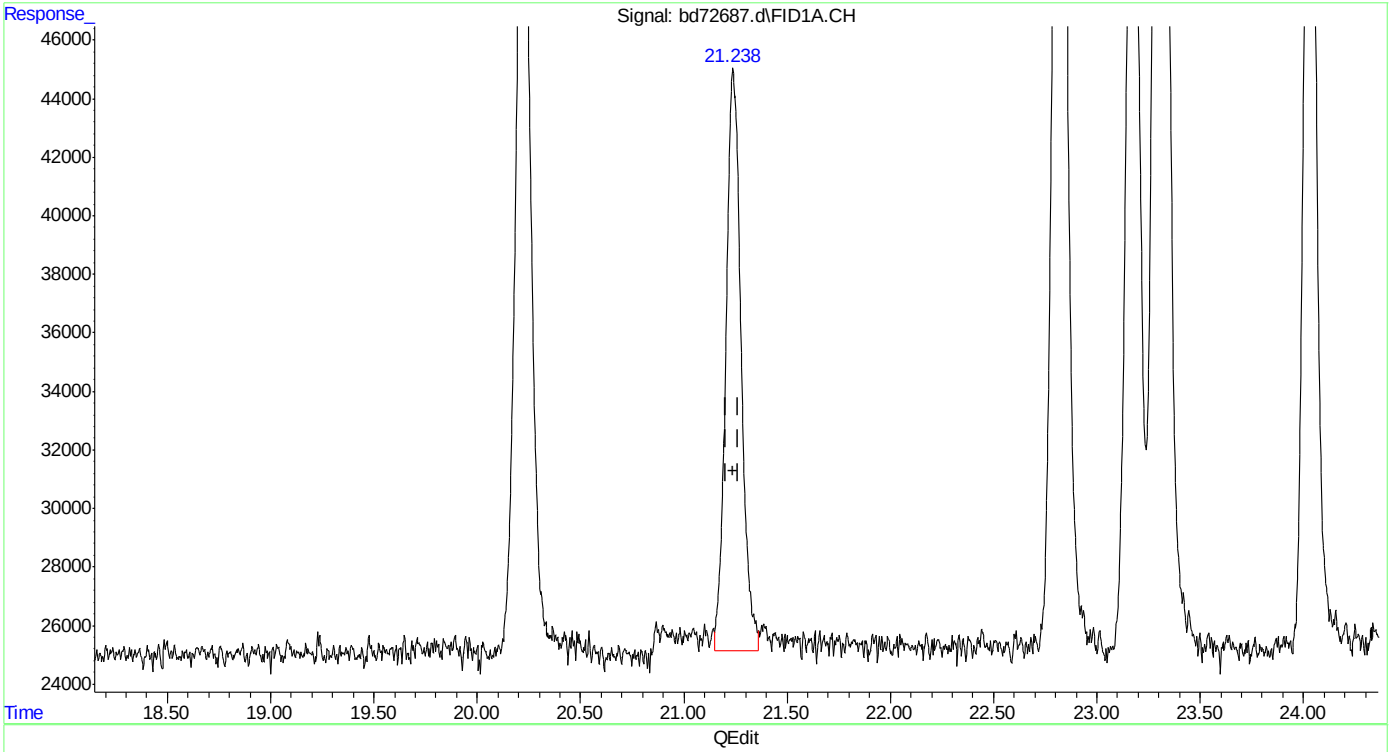
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(9) 2,3,4-trifluorotoluene (s)
21.238min 1.784 ppb m
response 1015129

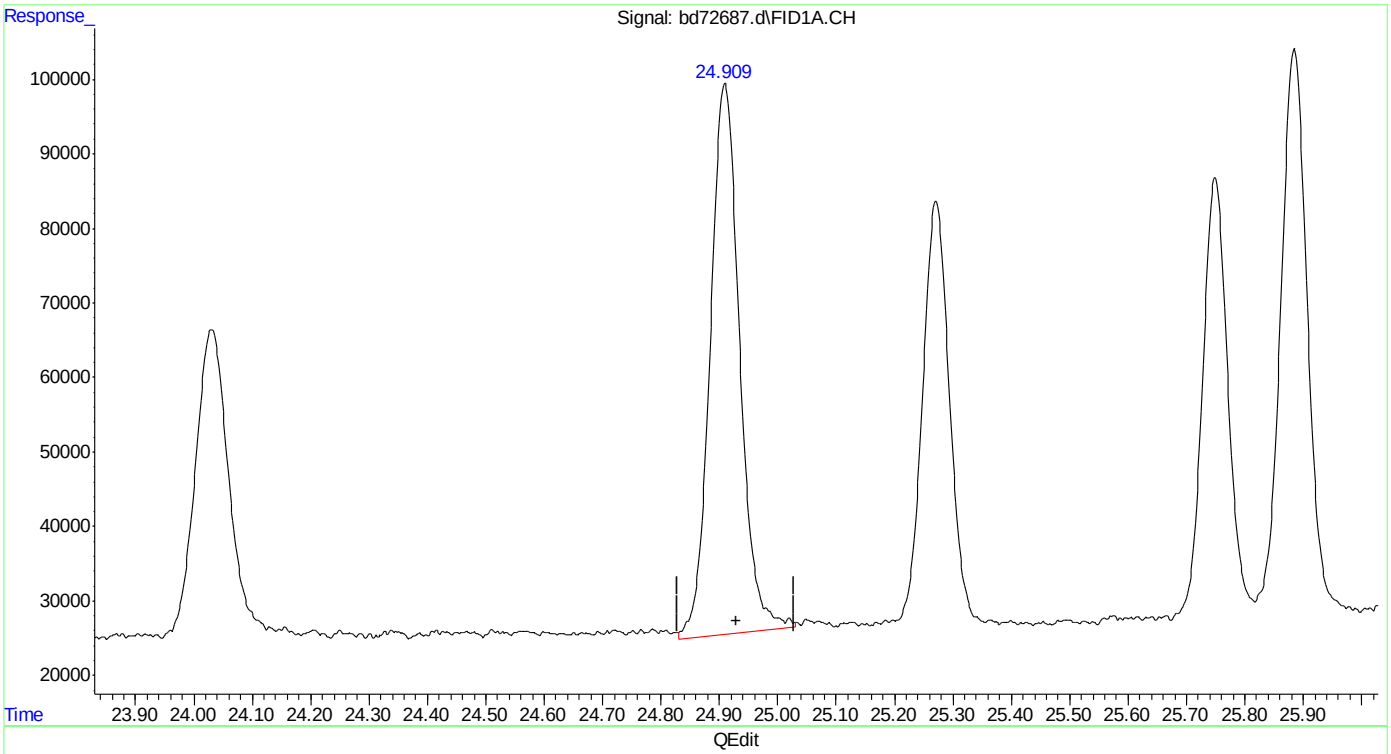
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:43:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) decane (h)
24.930min 3.013 ppb
response 2593178

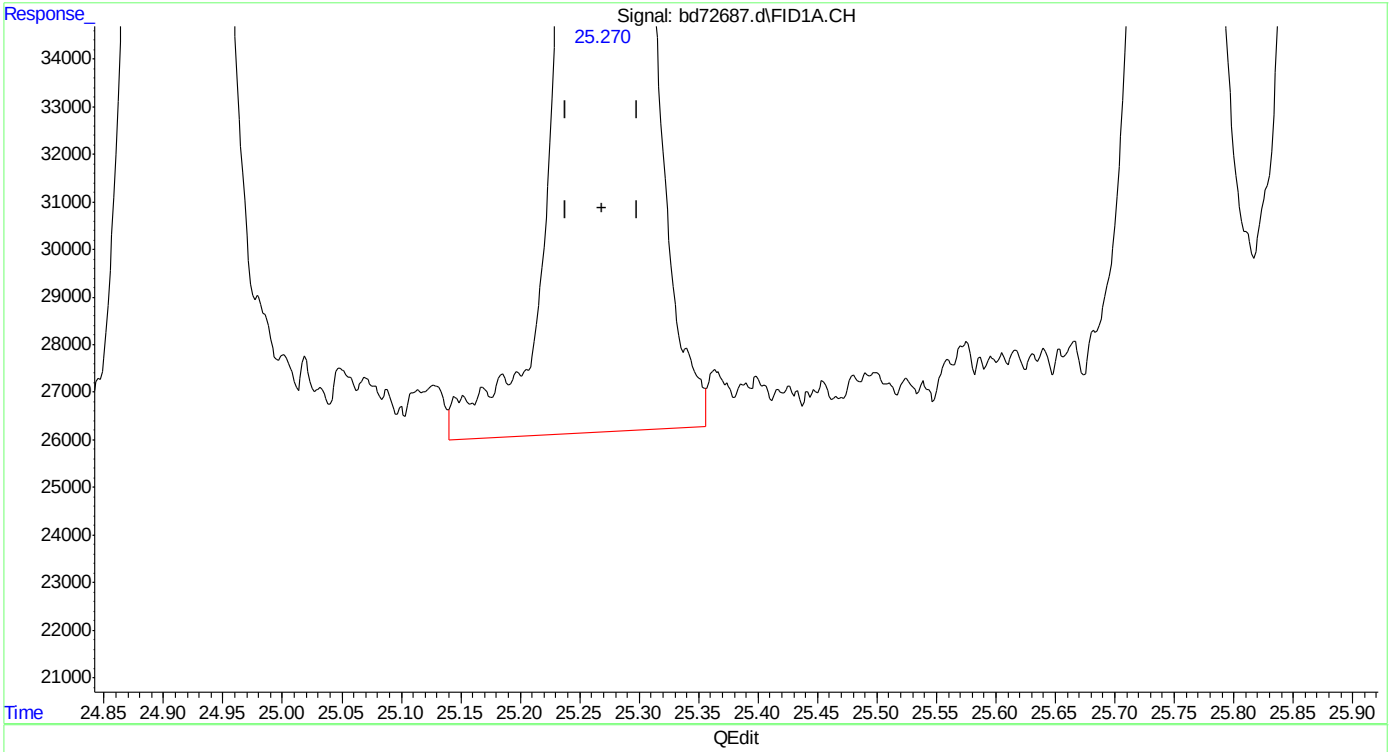
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) 1,3,5-trimethylbenzene (t)
25.271min 1.986 ppb
response 1914176

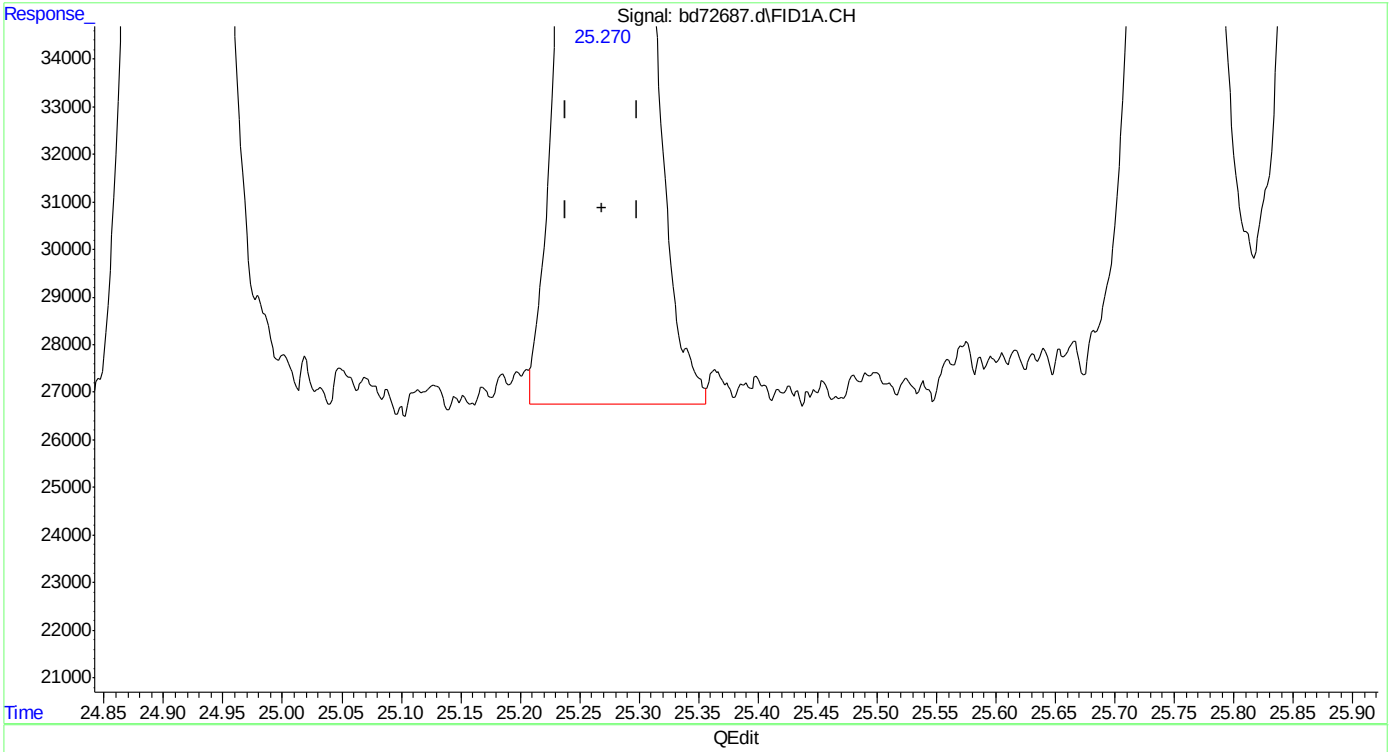
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) 1,3,5-trimethylbenzene (t)
25.270min 1.890 ppb m
response 1822082

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:25 2016

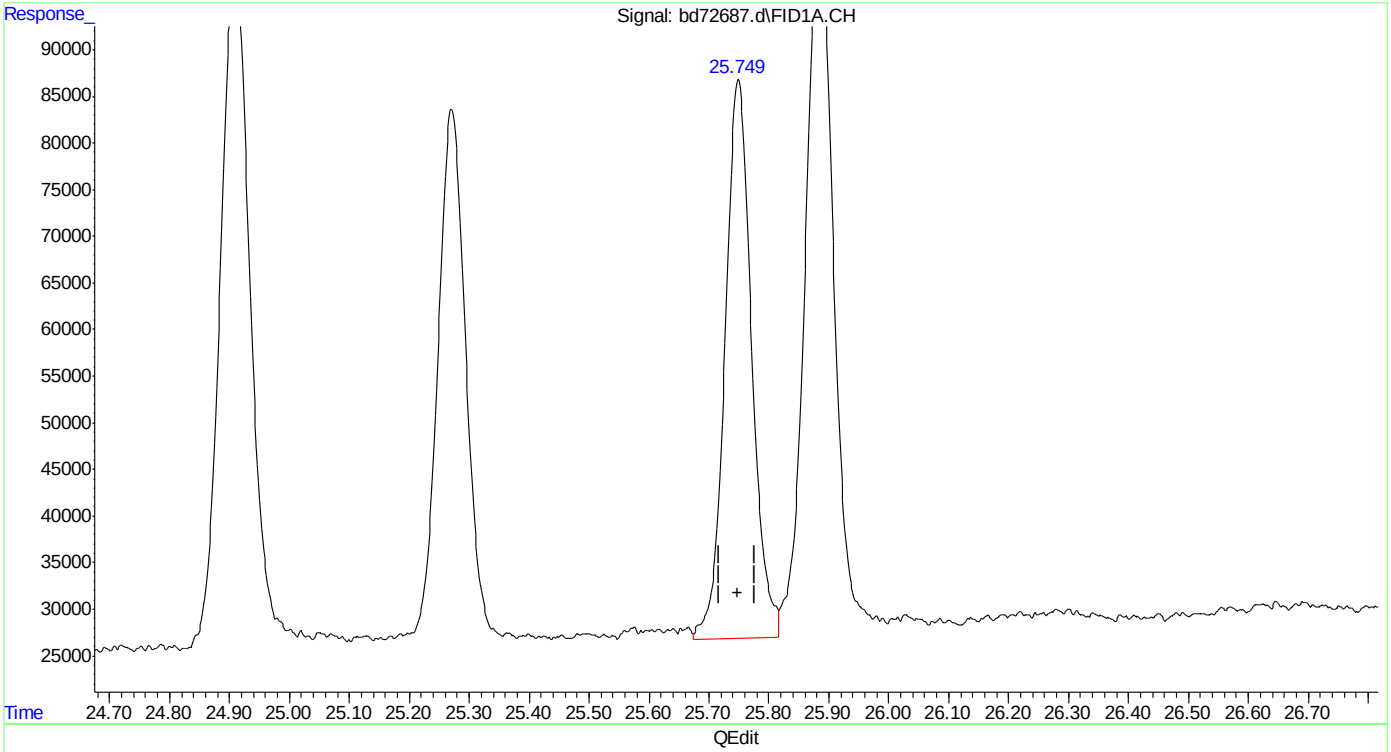
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 1,2,4-trimethylbenzene
25.749min 2.134 ppb
response 1858310

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:31 2016

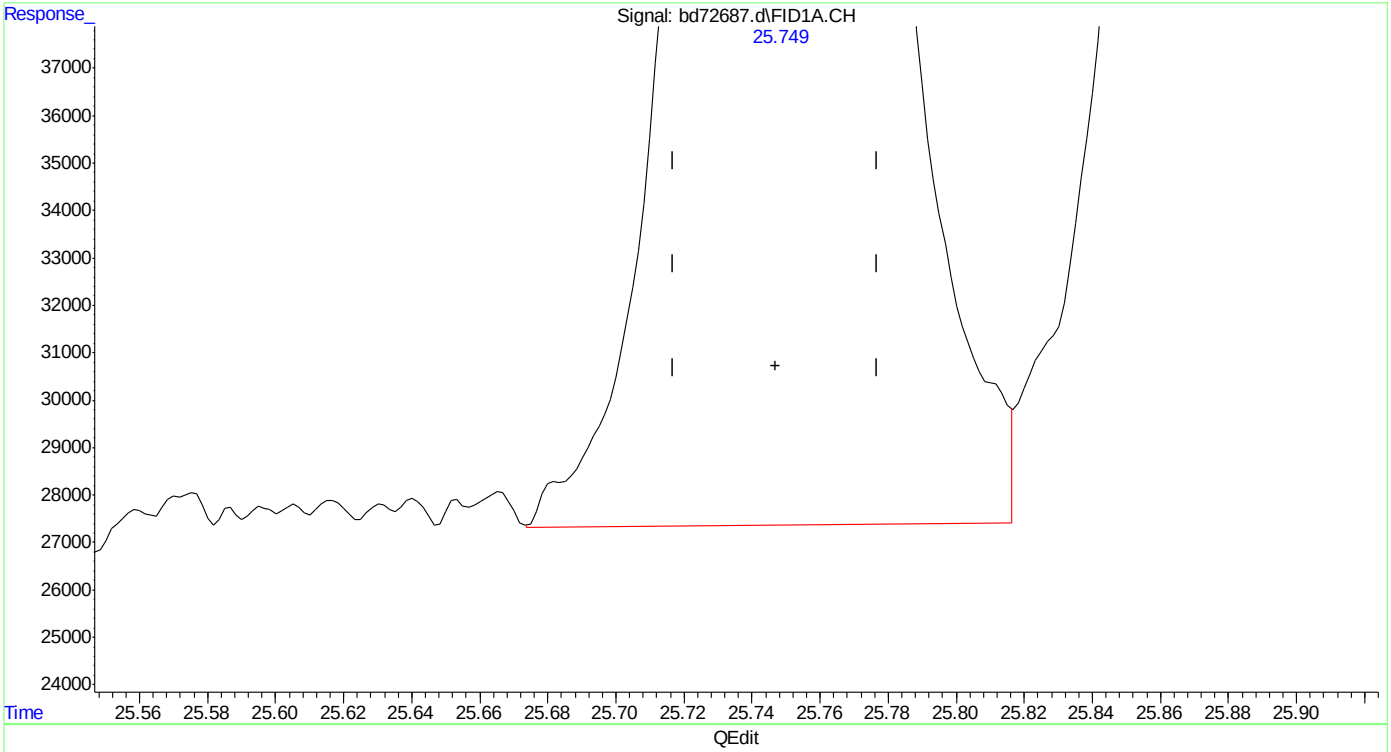
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 1,2,4-trimethylbenzene
25.749min 2.081 ppb m
response 1811882

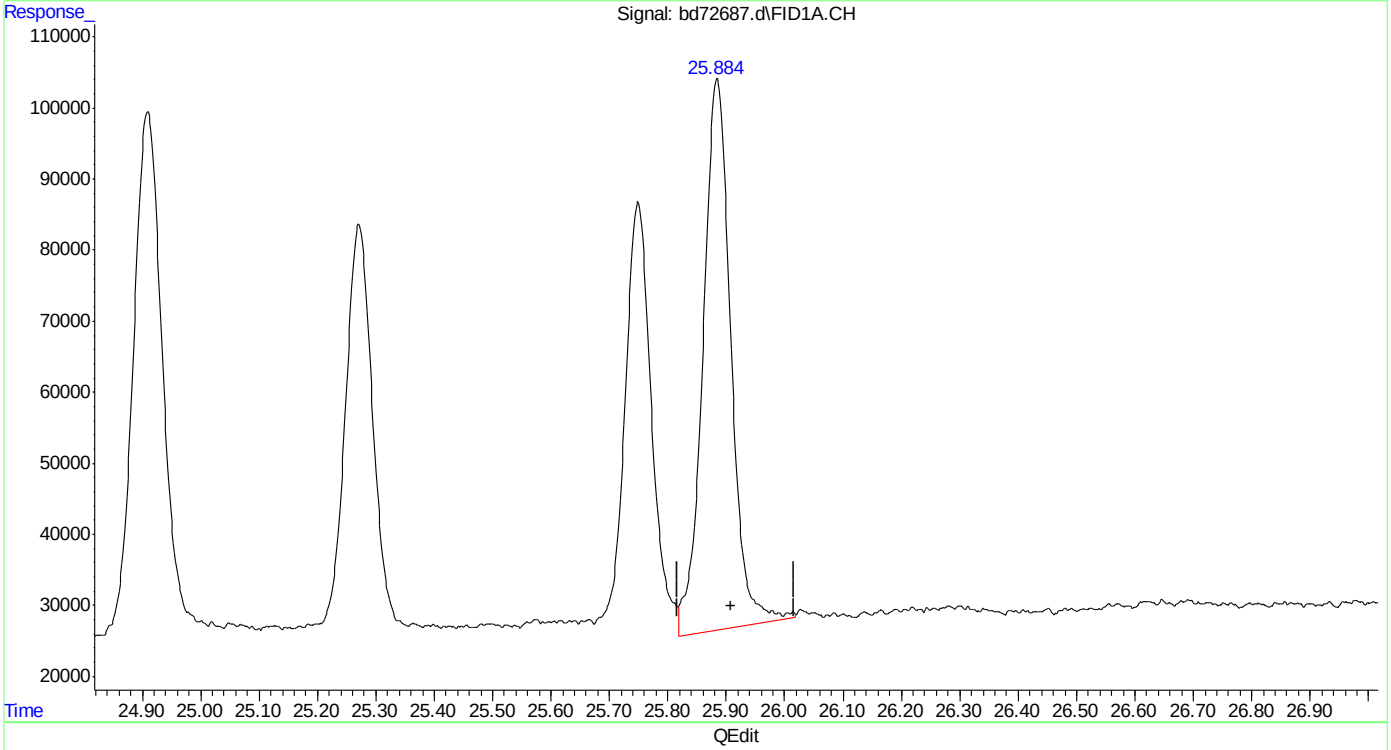
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:36 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) butylcyclohexane (h)
25.908min 2.819 ppb
response 2579118

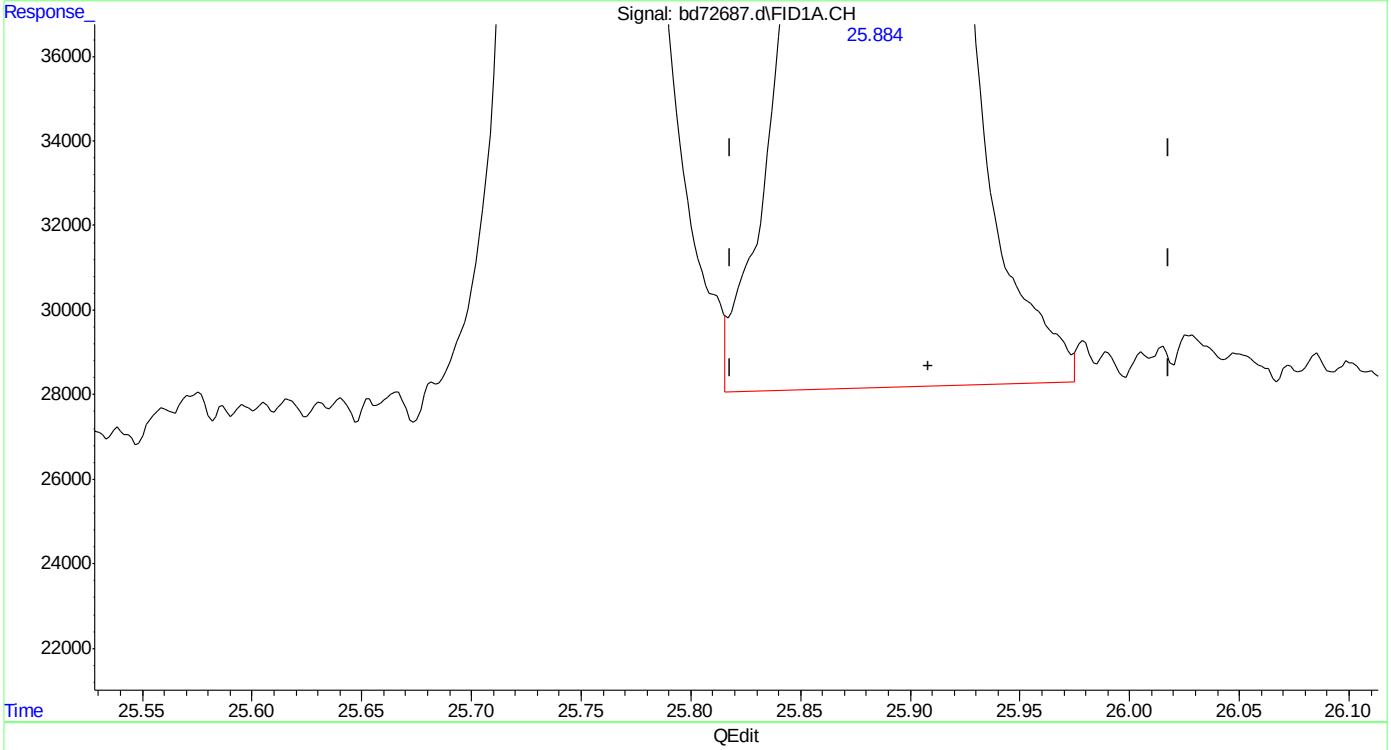
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:40 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) butylcyclohexane (h)
25.908min 2.641 ppb m
response 2416889

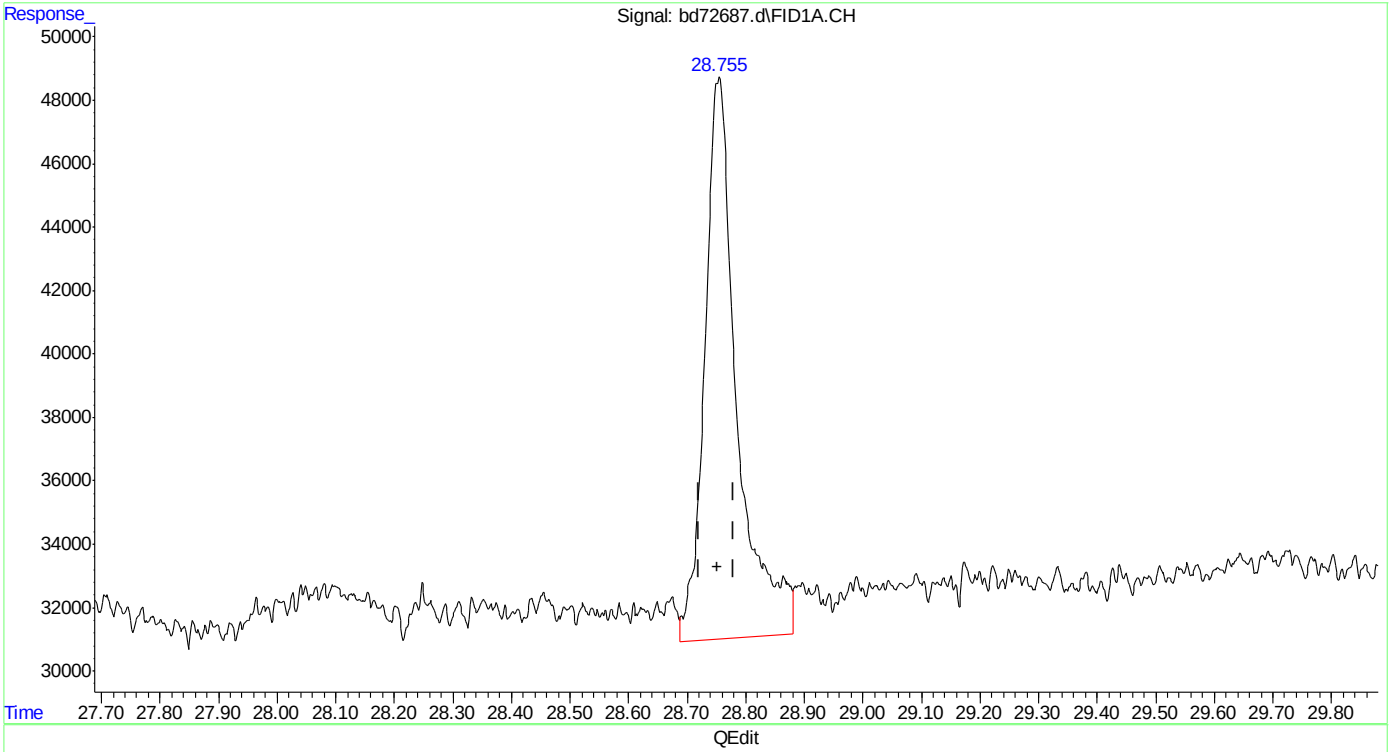
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:47 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.754min 1.572 ppb
response 674834

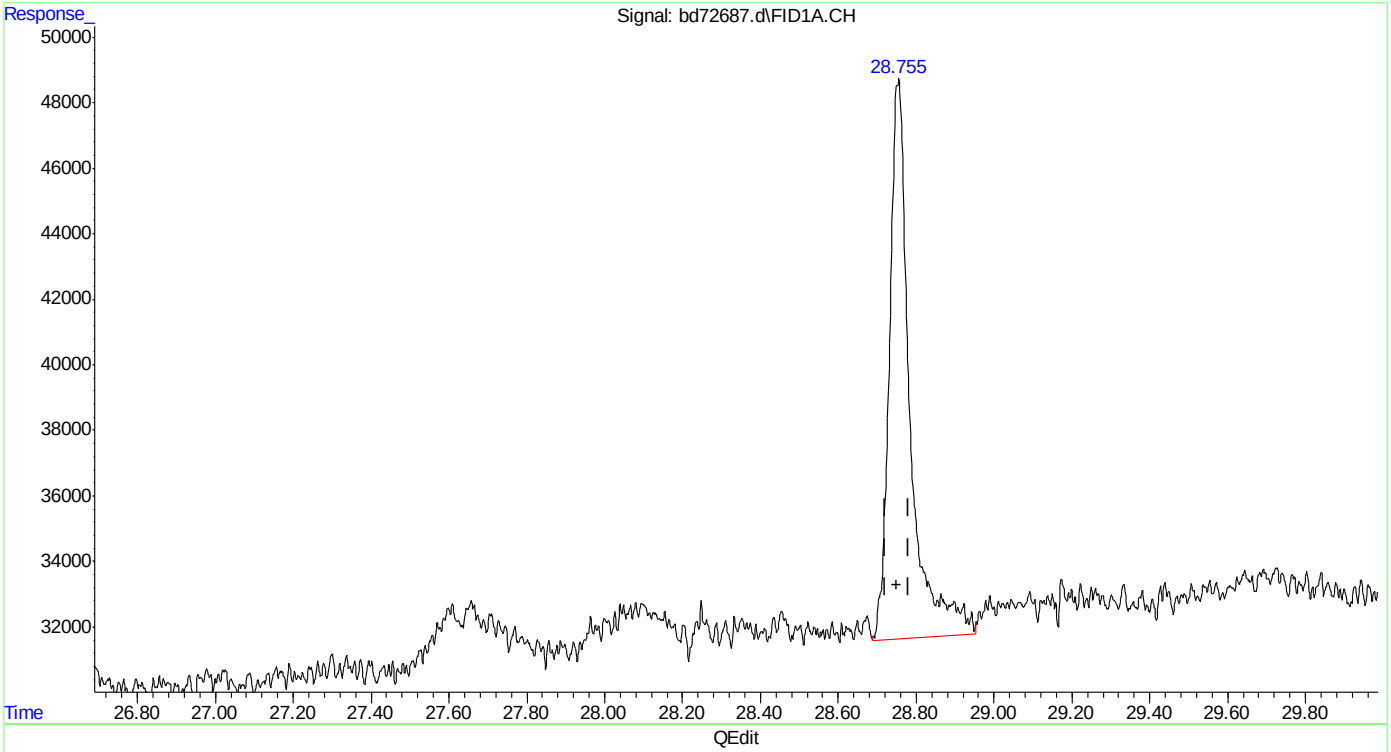
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) naphthalene
28.755min 1.476 ppb m
response 633669

(+) = Expected Retention Time

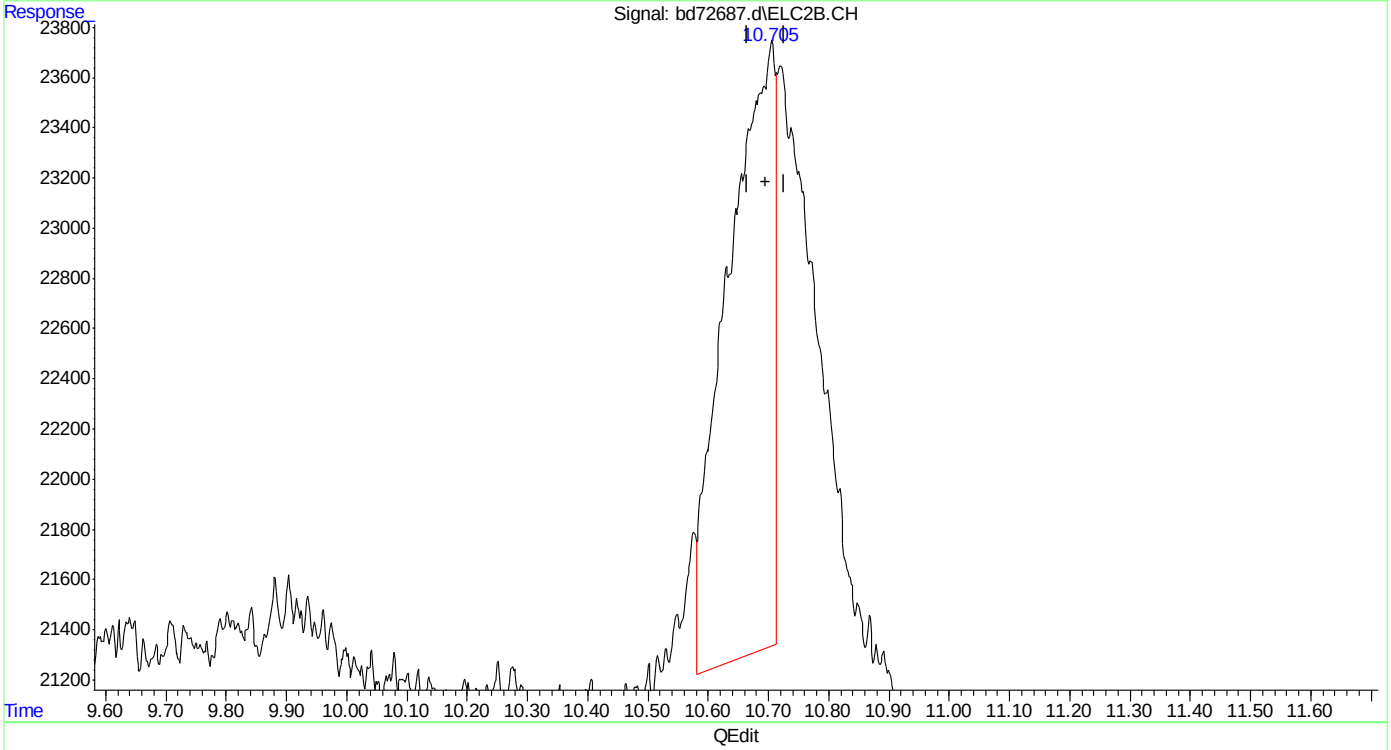
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.706min 0.834 ppb
response 130605

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:04 2016

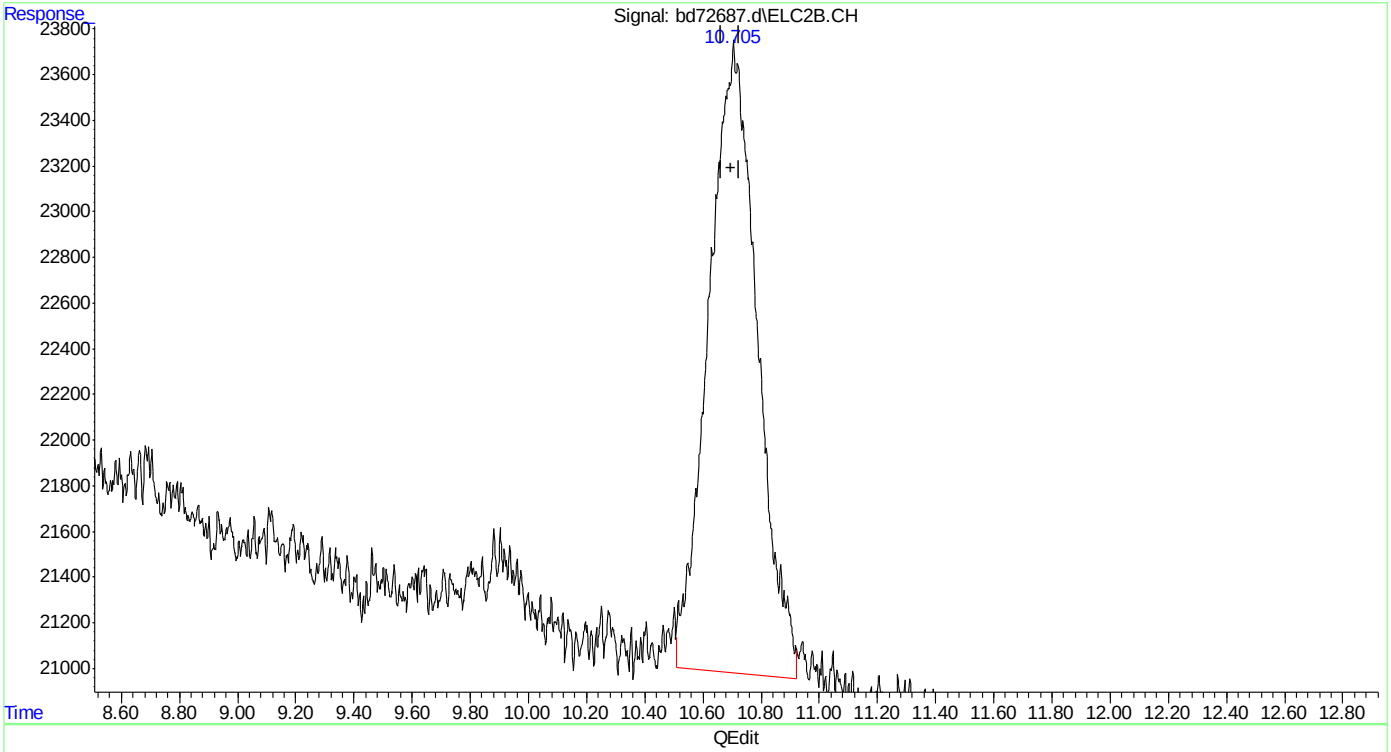
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.705min 2.043 ppb m
response 319987

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:16 2016

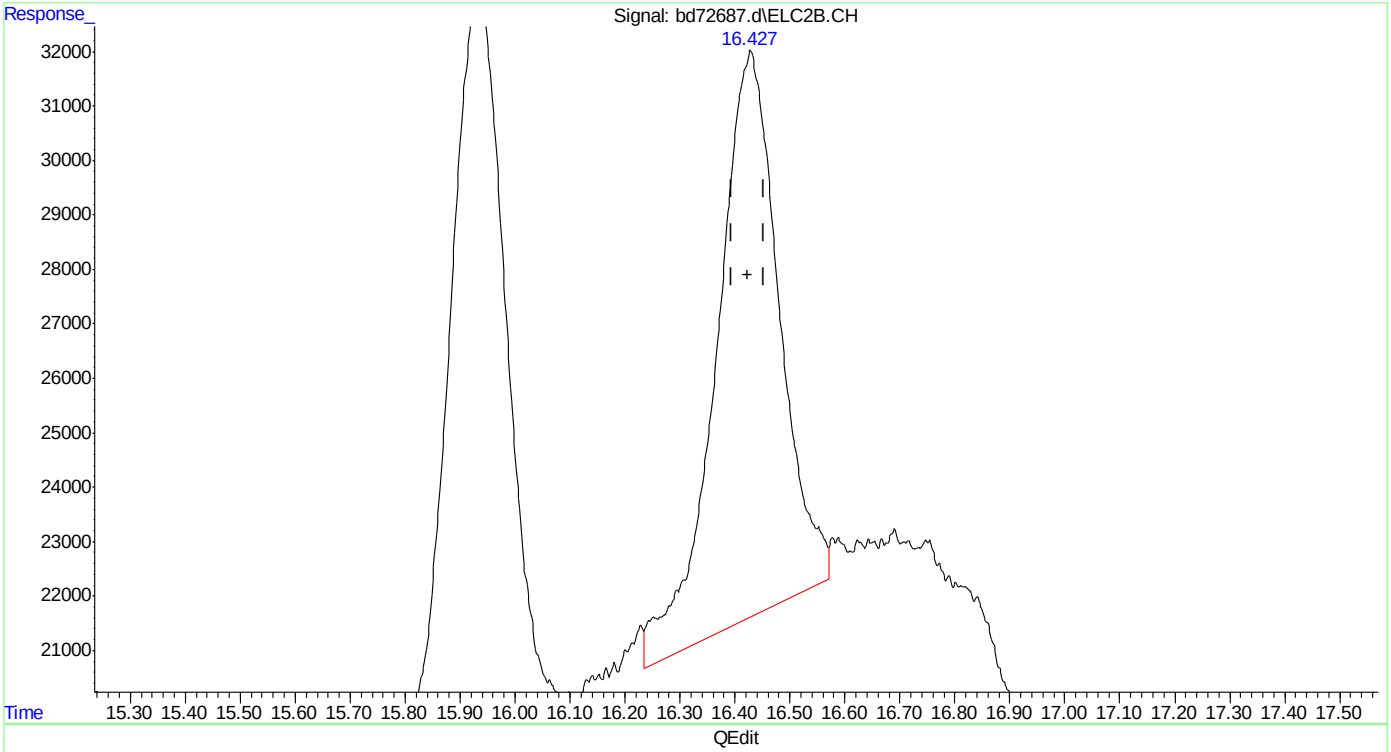
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
16.429min 2.332 ppb
response 827119

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:22 2016 Page: 1

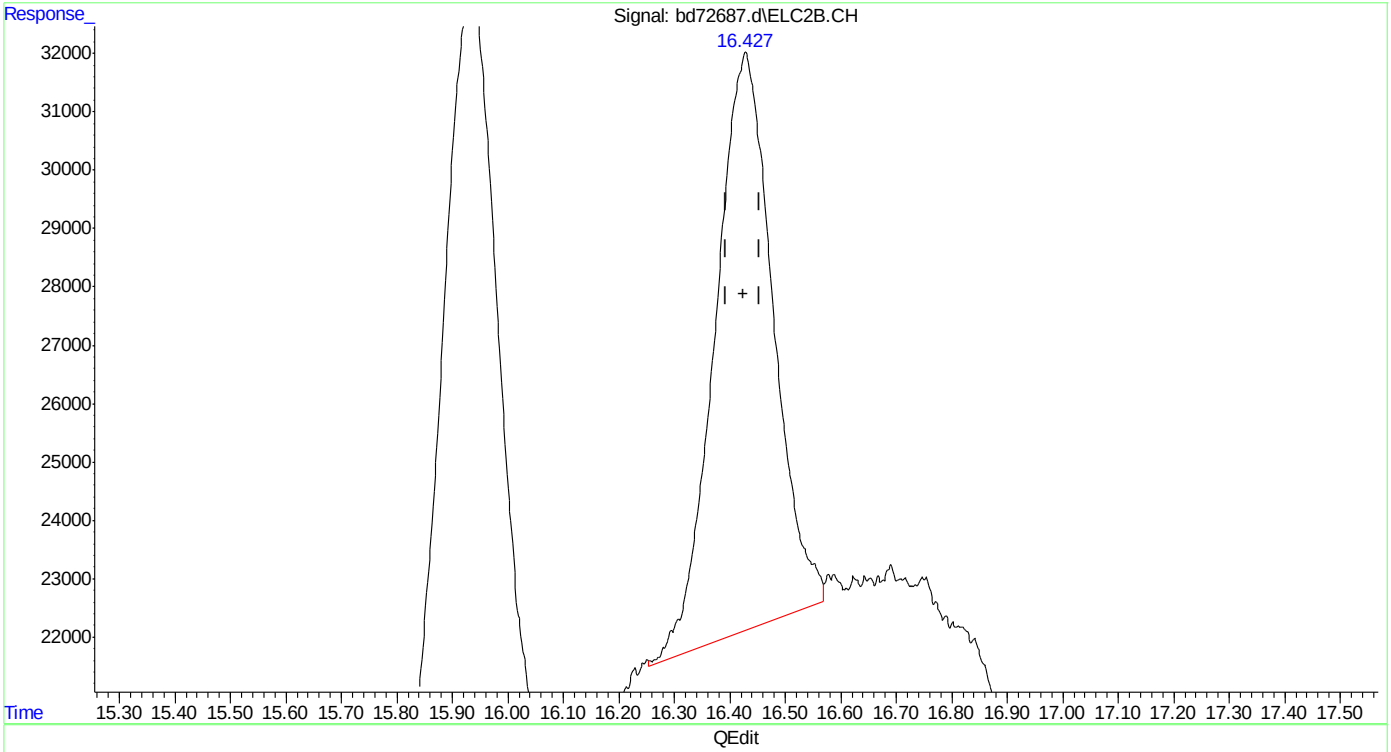
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
16.427min 2.036 ppb m
response 722326

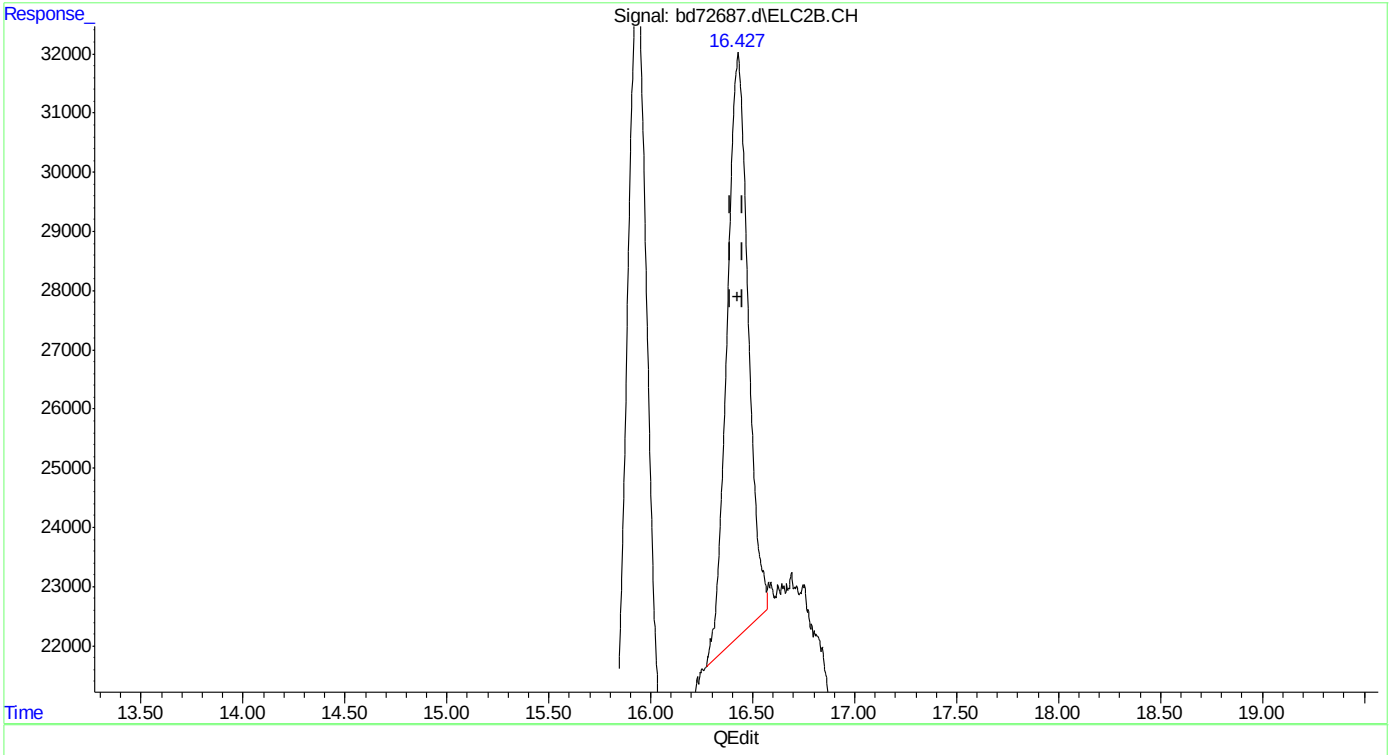
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:32 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(25) fluorobenzene #2 (s)
16.427min 2.004 ppb m
response 710788

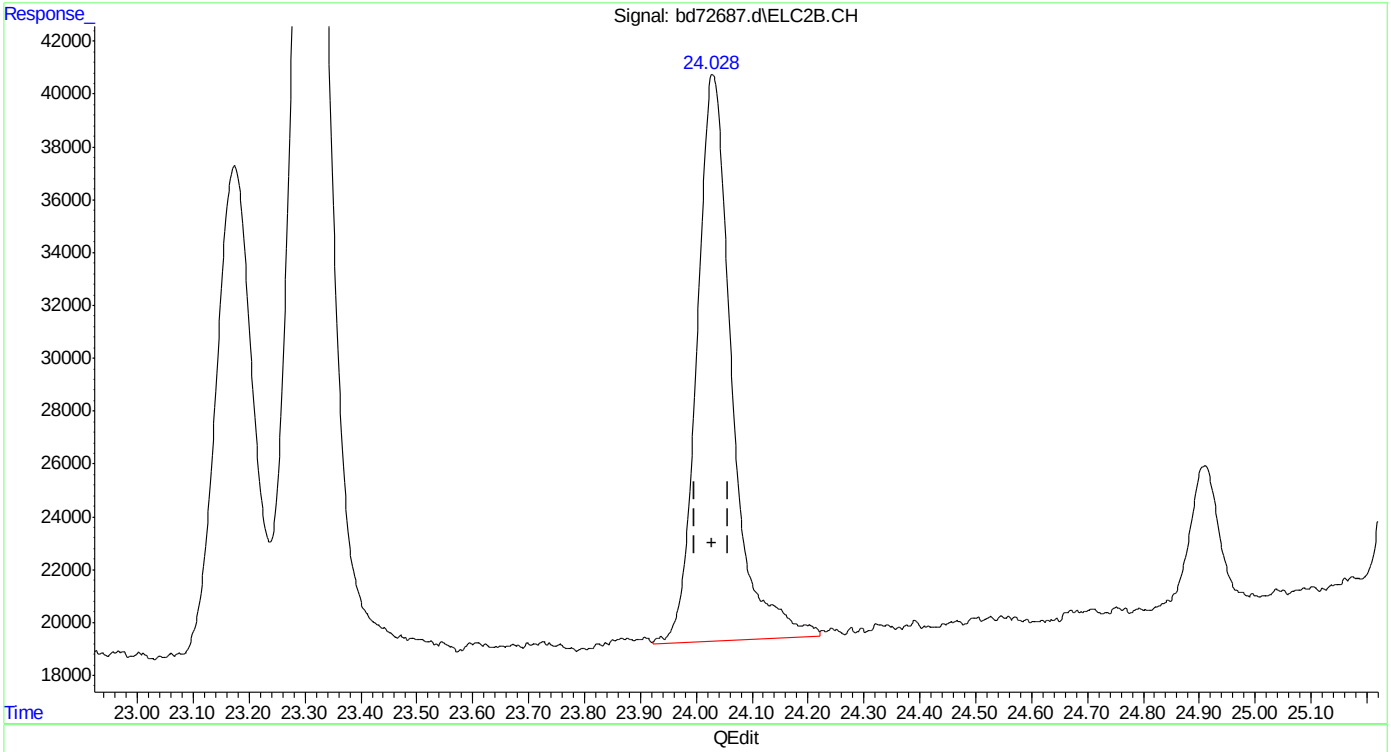
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:46 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(30) o-xylene #2
24.030min 2.277 ppb
response 930231

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:57 2016

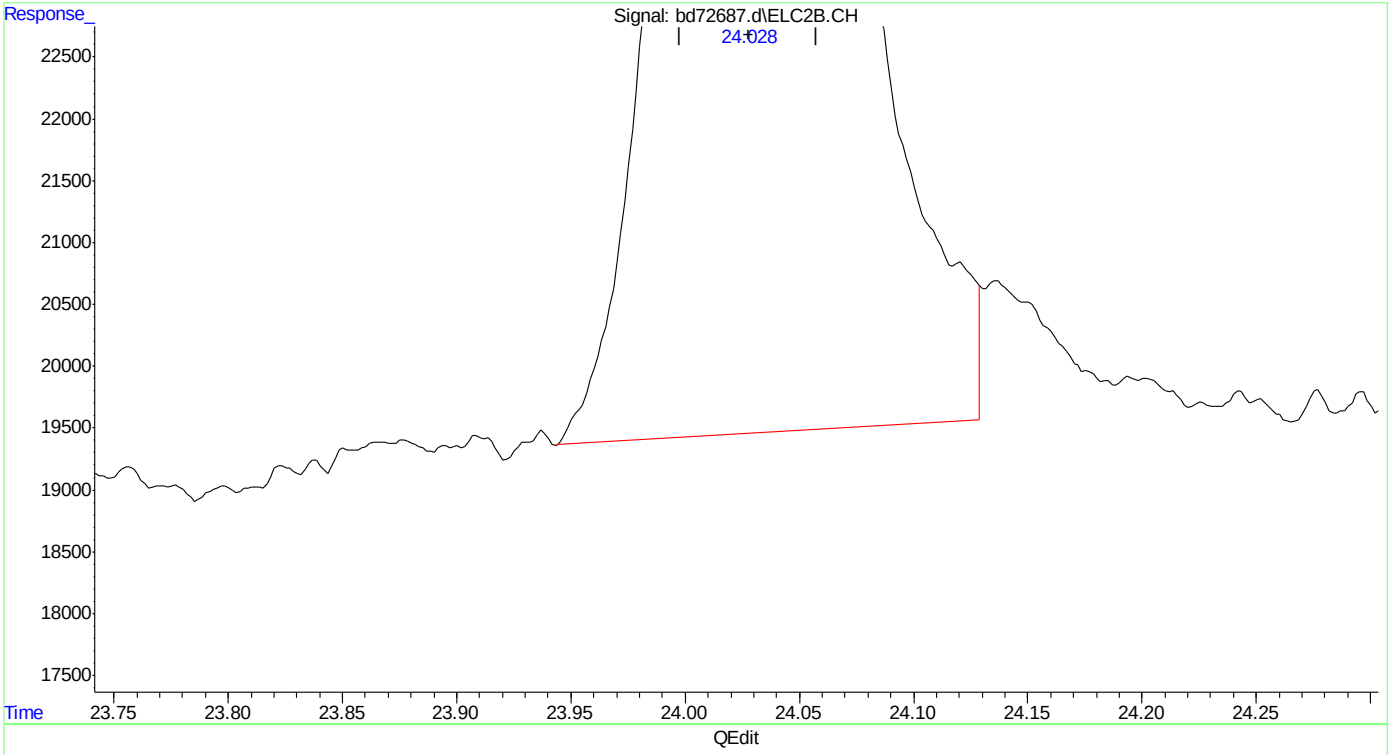
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(30) o-xylene #2
24.028min 2.137 ppb m
response 873175

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:05 2016

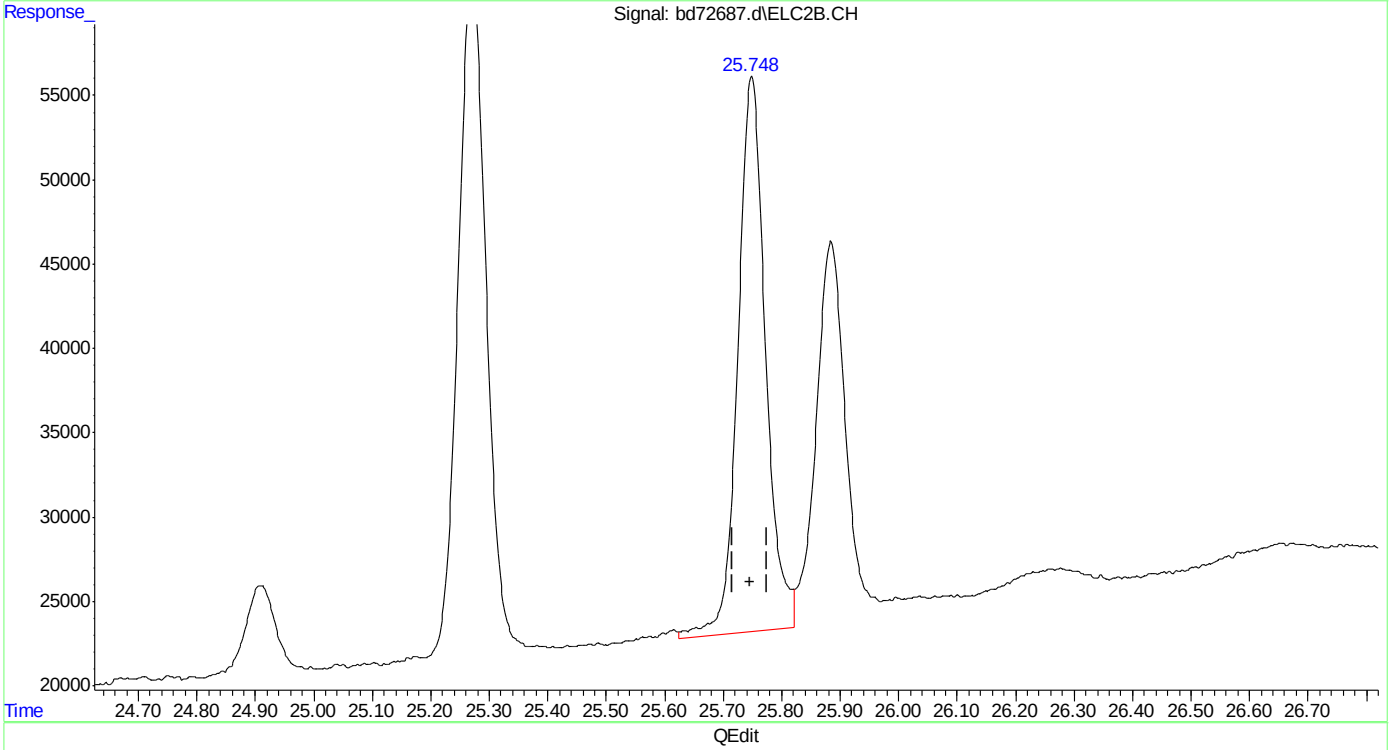
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.749min 2.350 ppb
response 1079346

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:10 2016

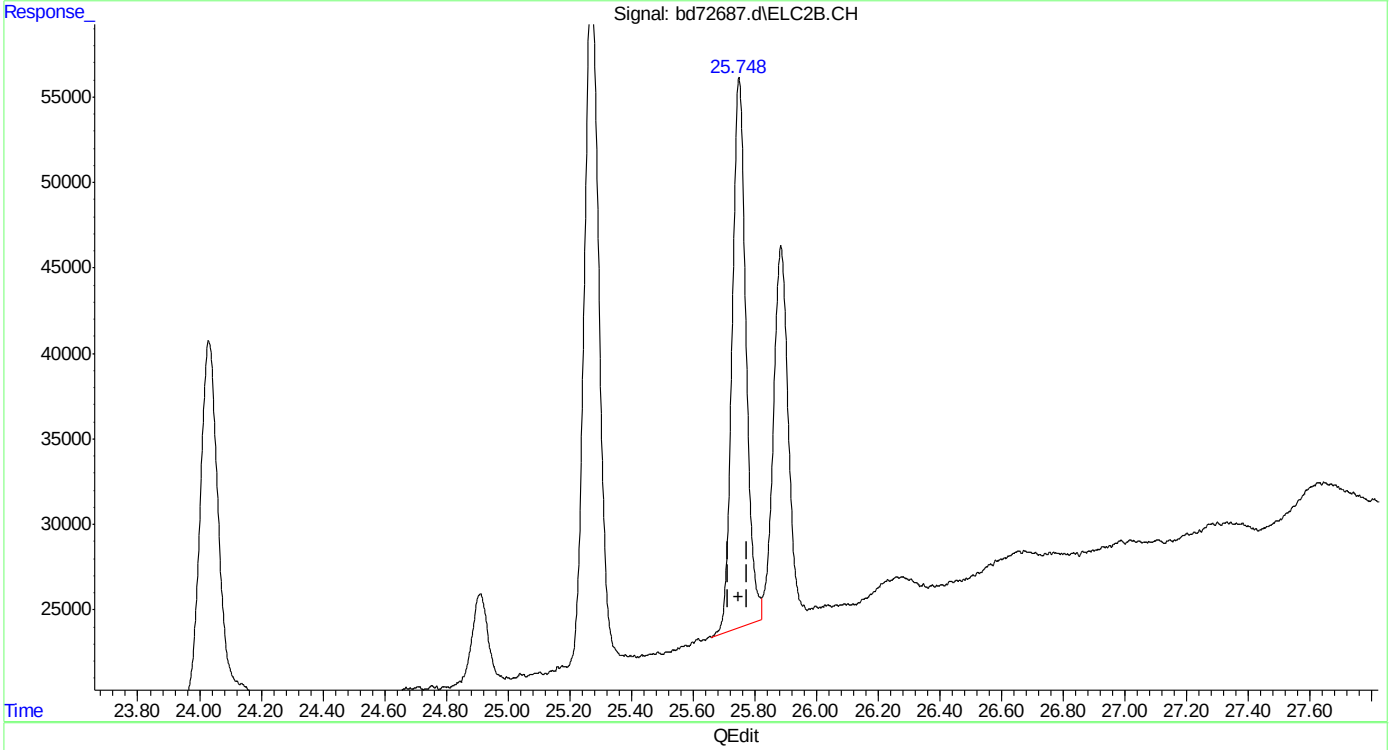
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.748min 2.174 ppb m
response 998600

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:17 2016

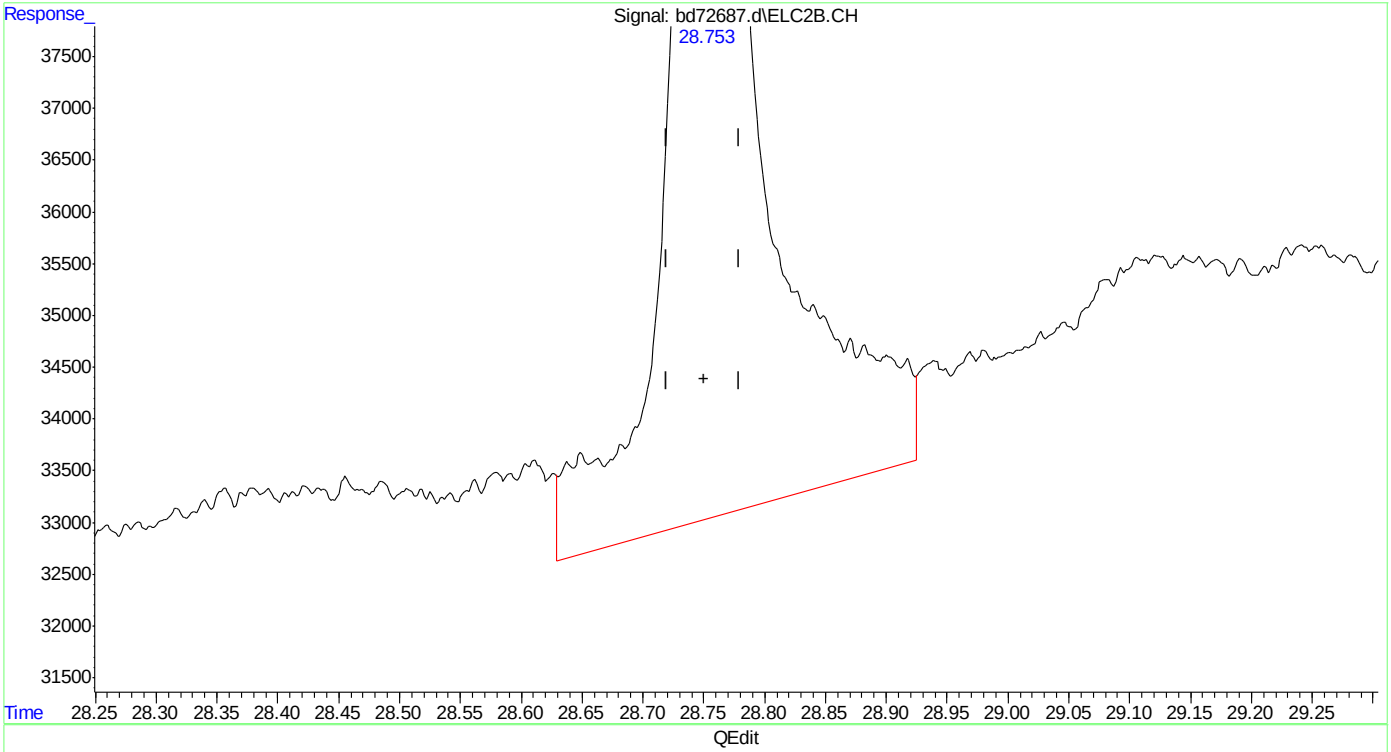
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.753min 1.968 ppb
response 603924

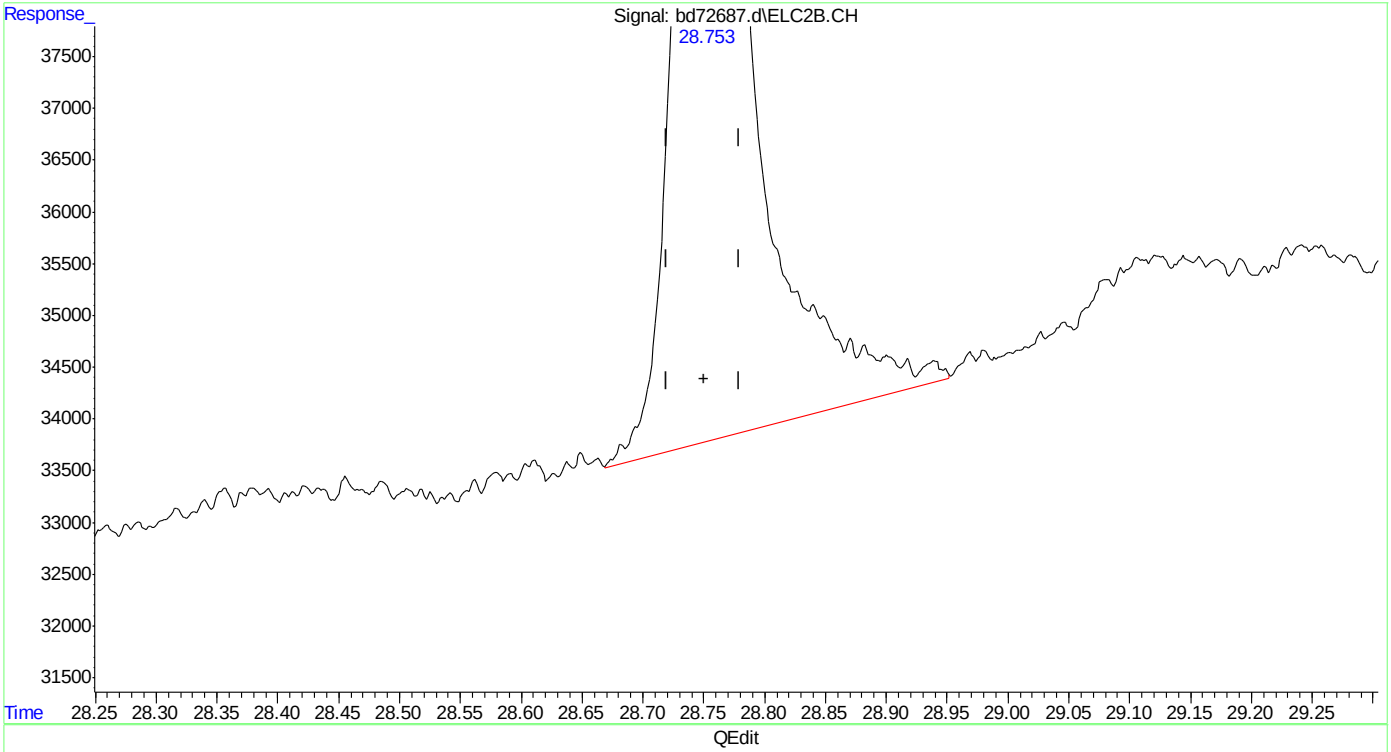
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.753min 1.541 ppb m
response 472807

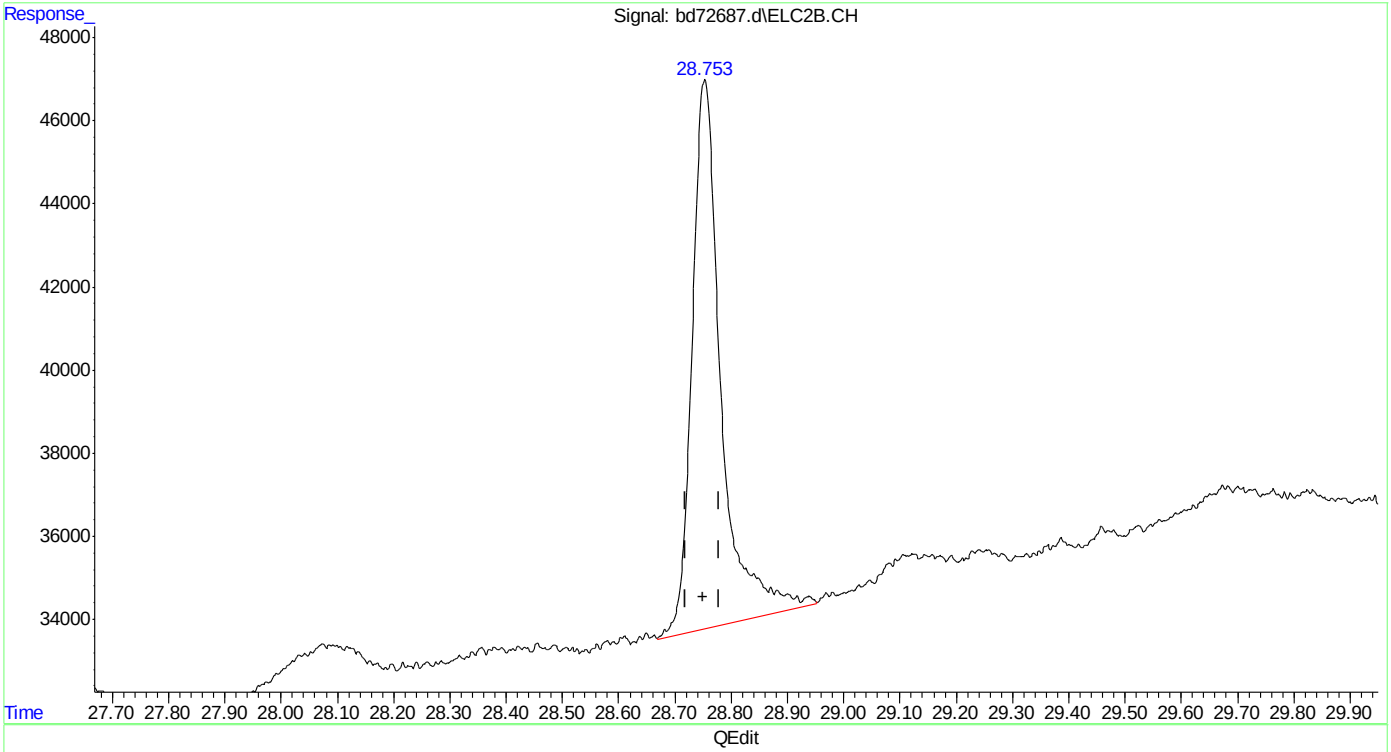
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) naphthalene #2
28.753min 1.541 ppb m
response 472807

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:47:10 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3572-1 (Sig #1); ic3752-1 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:13:58 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
6) s fluorobenzene	16.417	690853	0.952 ppb	m
Spiked Amount 50.000		Recovery =	1.90%	
9) s 2,3,4-trifluorotoluene	21.238	520707	0.941 ppb	m
Spiked Amount 50.000		Recovery =	1.88%	
25) s fluorobenzene #2	16.428	373315	1.052 ppb	m
Spiked Amount 50.000		Recovery =	2.10%	
27) s 2,3,4-trifluorotoluen...	21.241	206659	1.027 ppb	m
Spiked Amount 50.000		Recovery =	2.05%	
Target Compounds				
1) h rt5.5-7	7.470	578714	1.013 ppb	m
2) h rt7/10	9.920	702081	1.064 ppb	m
3) mtbe	10.722f	270383	0.935 ppb	m
4) h rt10/13	15.200	721543	1.001 ppb	m
5) benzene	15.930	747683	0.970 ppb	m
8) toluene	20.219	761168	0.989 ppb	m
11) h rt20/25	22.840	1149887	1.343 ppb	m
13) ethylbenzene	23.175	793136	1.005 ppb	
14) m,p-xylene	23.311	1723067	2.092 ppb	
15) o-xylene	24.031	920010	1.108 ppb	
16) h decane	24.930	1632465	1.704 ppb	m
17) t 1,3,5-trimethylbenzene	25.273	946024	0.995 ppb	m
18) 1,2,4-trimethylbenzene	25.750	938216	1.067 ppb	m
19) h butylcyclohexane	25.908	1408346	1.425 ppb	m
20) naphthalene	28.755	268939	0.670 ppb	m
23) mtbe #2	10.682	146572	0.931 ppb	m
24) benzene #2	15.926	496928	1.064 ppb	m
26) toluene #2	20.226	470661	1.085 ppb	m
28) ethylbenzene #2	23.173	413616	1.042 ppb	
29) m,p-xylene #2	23.310	1007780	2.081 ppb	
30) o-xylene #2	24.033	483692	1.164 ppb	m
31) t 1,3,5-trimethylbenzen...	25.273	712865	1.078 ppb	
32) 1,2,4-trimethylbenzen...	25.749	530966	1.131 ppb	m
33) naphthalene #2	28.755	204485	0.707 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	530521	1.131 ppb	m

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

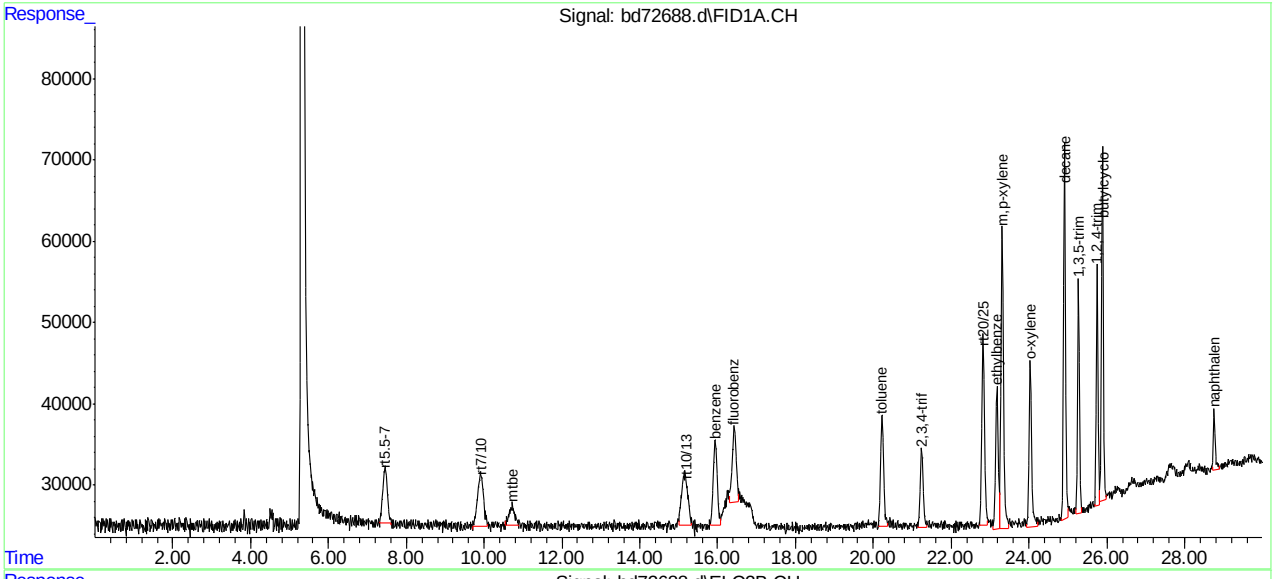
SGS ACCUTEST MC45897

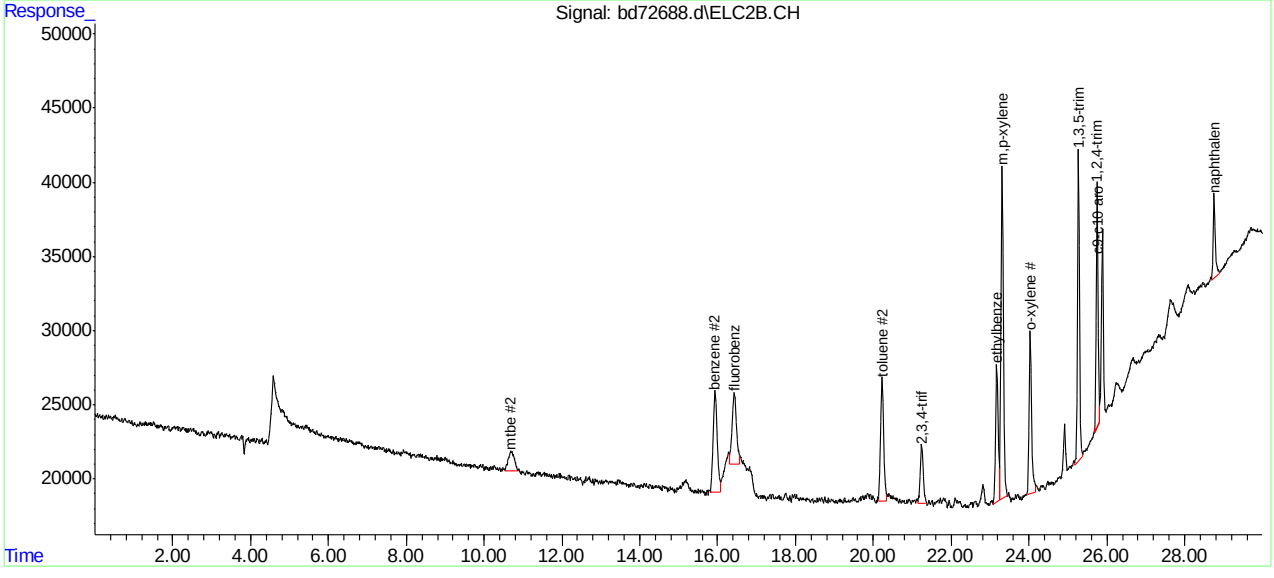
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3572-1 (Sig #1); ic3752-1 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

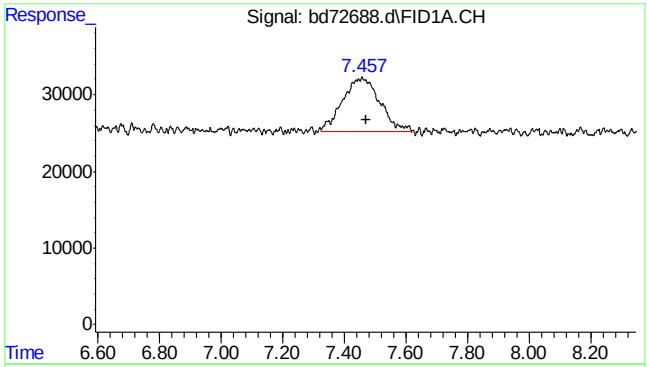
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:13:58 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



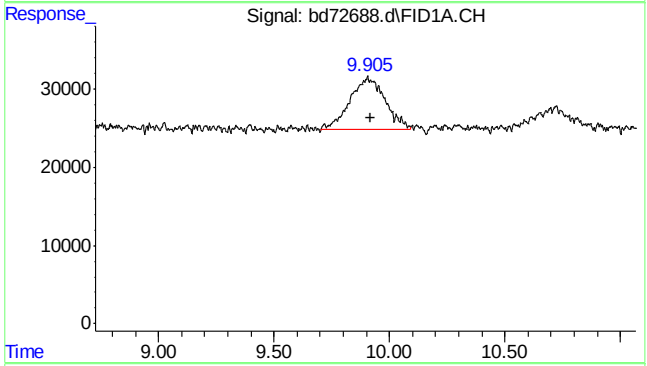


SGS ACCUTEST MC45897



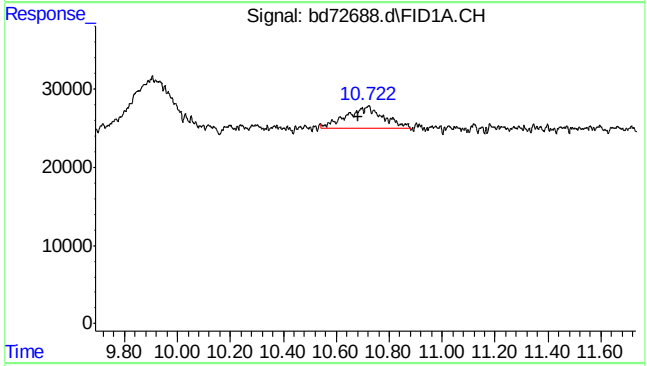
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 578714
Conc: 1.01 ppb m



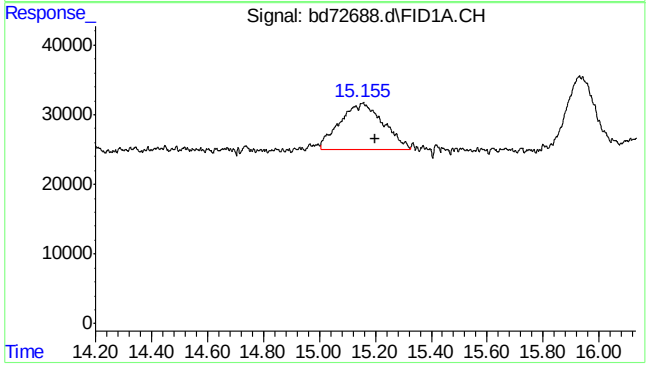
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 702081
Conc: 1.06 ppb m



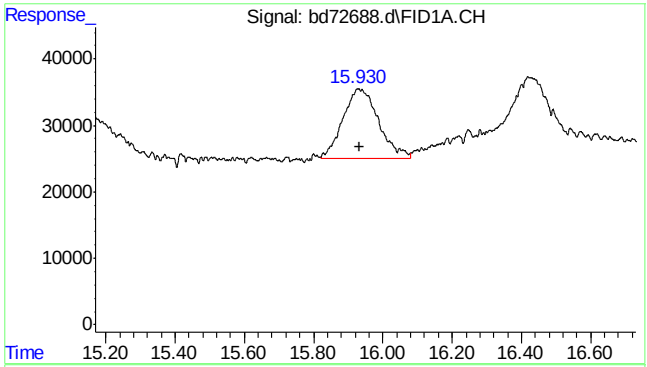
#3 mtbe

R.T.: 10.722 min
Delta R.T.: 0.039 min
Response: 270383
Conc: 0.94 ppb m



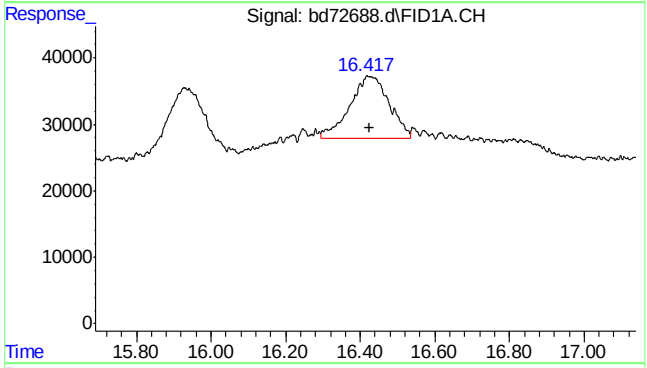
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 721543
Conc: 1.00 ppb m



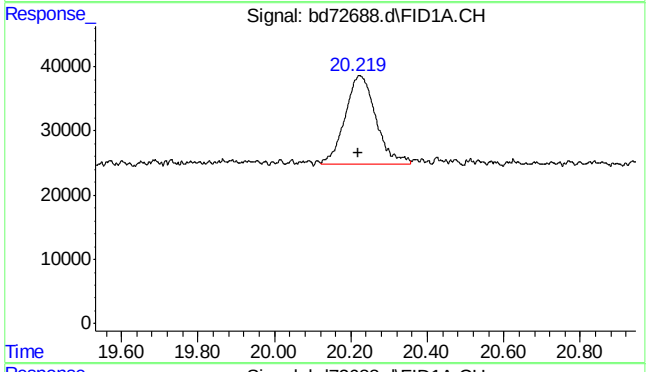
#5 benzene

R.T.: 15.930 min
Delta R.T.: -0.003 min
Response: 747683
Conc: 0.97 ppb m



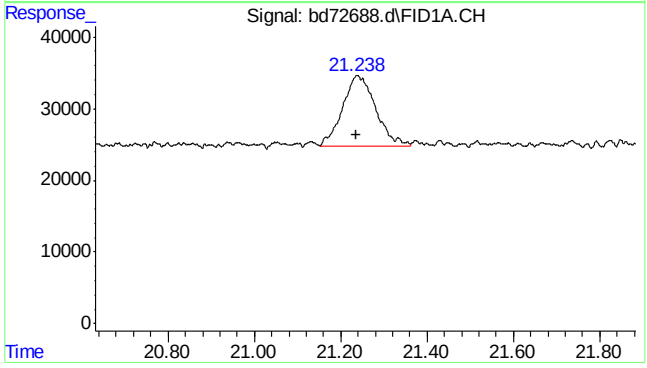
#6 fluorobenzene

R.T.: 16.417 min
Delta R.T.: -0.007 min
Response: 690853
Conc: 0.95 ppb m



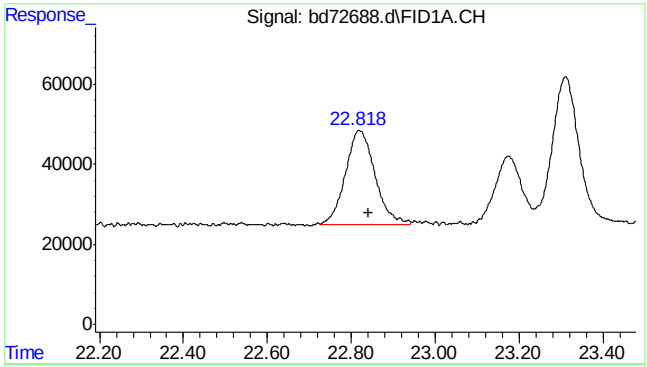
#8 toluene

R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 761168
Conc: 0.99 ppb m



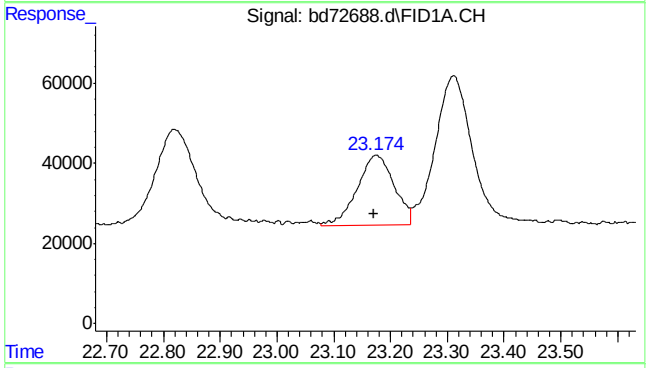
#9 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 520707
Conc: 0.94 ppb m



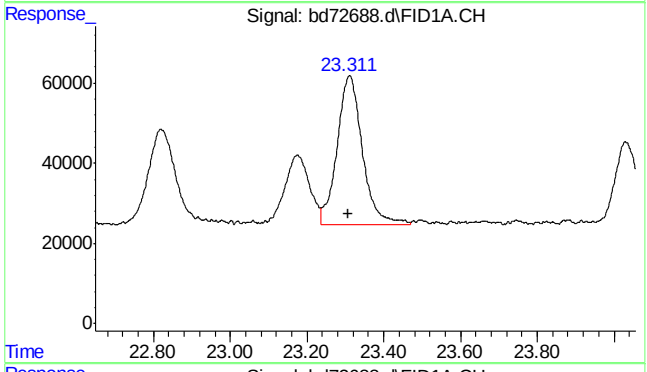
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 1149887
Conc: 1.34 ppb m



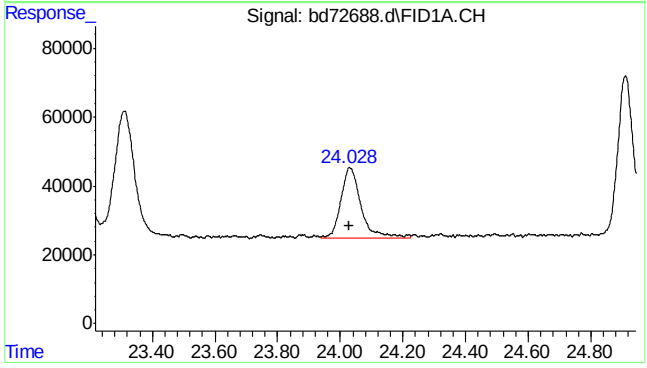
#13 ethylbenzene

R.T.: 23.175 min
Delta R.T.: 0.003 min
Response: 793136
Conc: 1.01 ppb



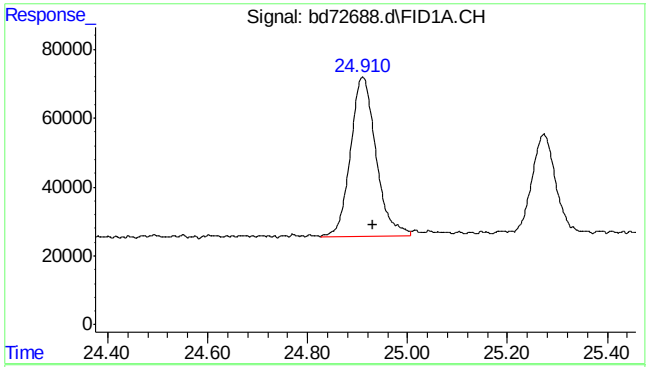
#14 m,p-xylene

R.T.: 23.311 min
Delta R.T.: 0.004 min
Response: 1723067
Conc: 2.09 ppb



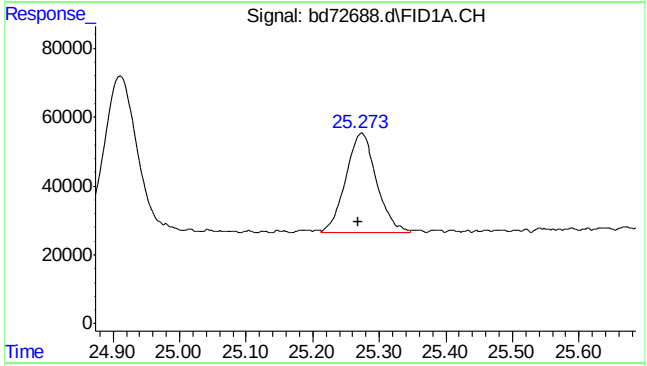
#15 o-xylene

R.T.: 24.031 min
Delta R.T.: 0.002 min
Response: 920010
Conc: 1.11 ppb



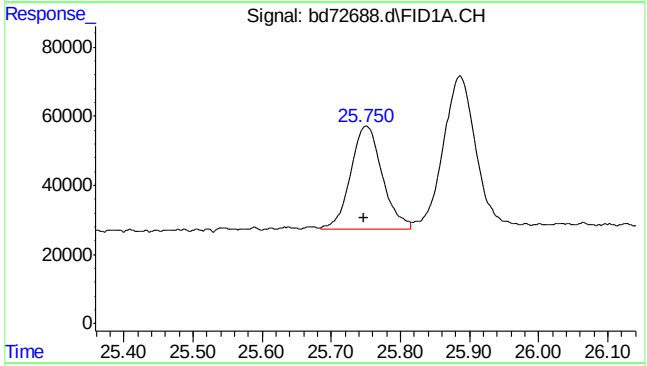
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 1632465
Conc: 1.70 ppb m



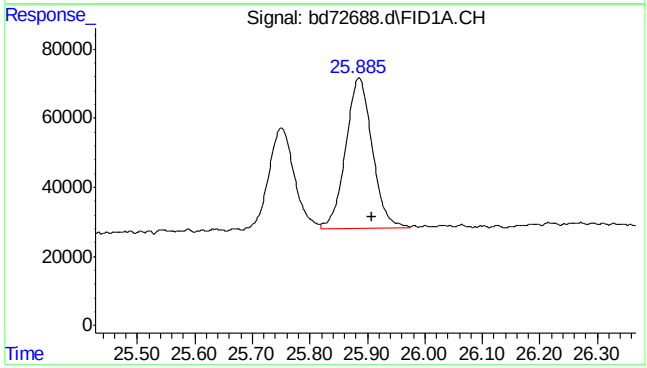
#17 1,3,5-trimethylbenzene

R.T.: 25.273 min
Delta R.T.: 0.004 min
Response: 946024
Conc: 1.00 ppb m



#18 1,2,4-trimethylbenzene

R.T.: 25.750 min
Delta R.T.: 0.003 min
Response: 938216
Conc: 1.07 ppb m



#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 1408346
Conc: 1.42 ppb m

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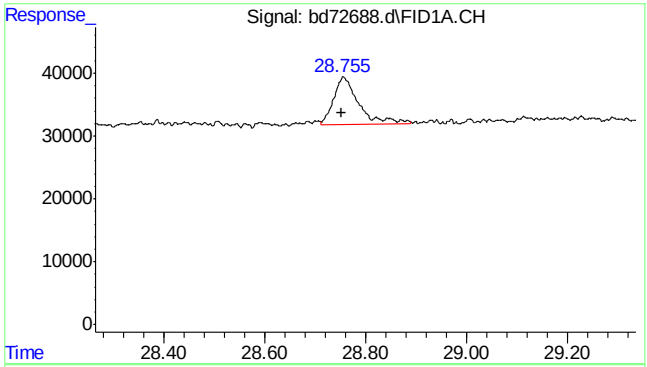
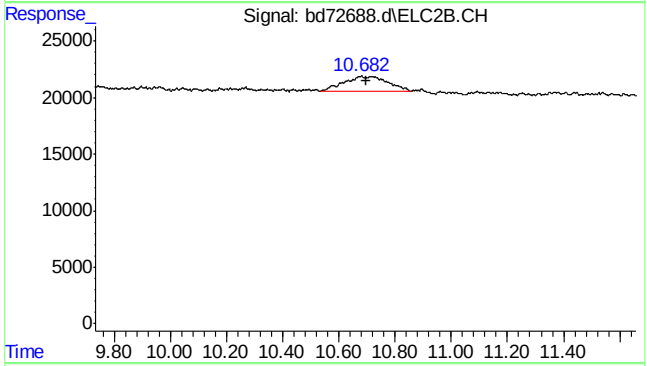


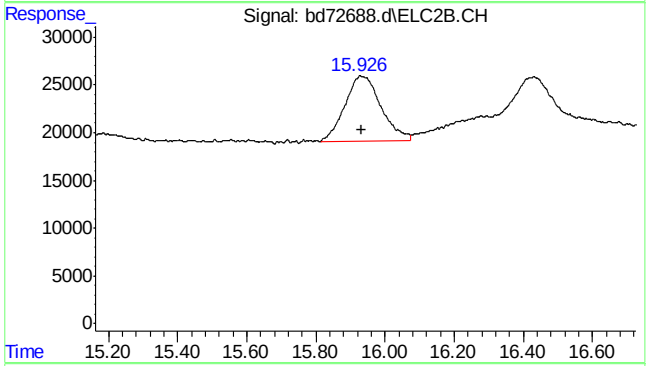
#20 naphthalene

R.T.: 28.755 min
Delta R.T.: 0.004 min
Response: 268939
Conc: 0.67 ppb m



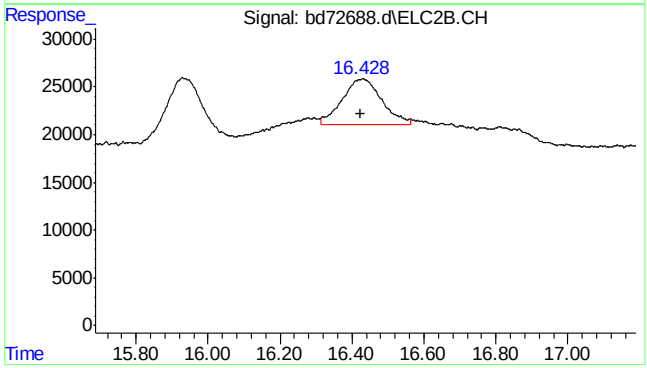
#23 mtbe #2

R.T.: 10.682 min
Delta R.T.: -0.014 min
Response: 146572
Conc: 0.93 ppb m



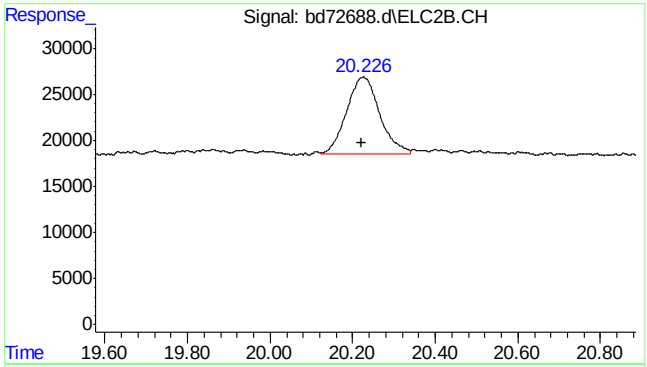
#24 benzene #2

R.T.: 15.926 min
Delta R.T.: -0.006 min
Response: 496928
Conc: 1.06 ppb m



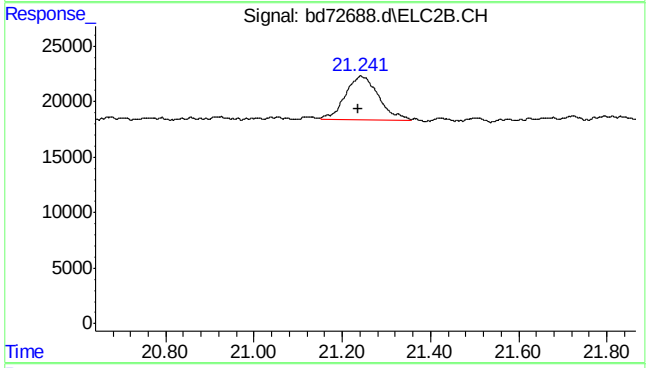
#25 fluorobenzene #2

R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 373315
Conc: 1.05 ppb m



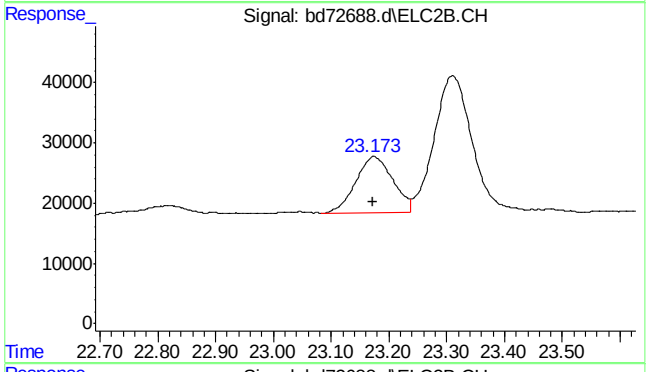
#26 toluene #2

R.T.: 20.226 min
Delta R.T.: 0.005 min
Response: 470661
Conc: 1.08 ppb m



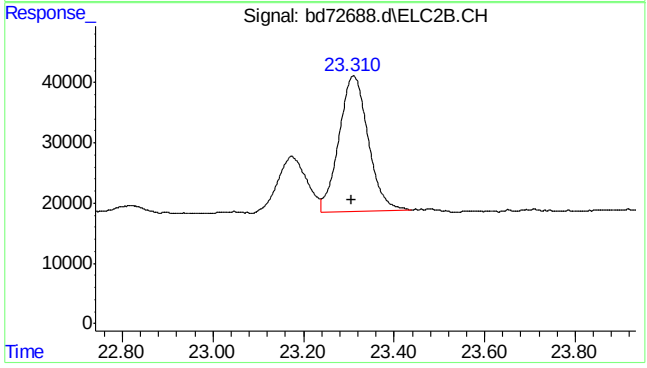
#27 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 206659
Conc: 1.03 ppb m



#28 ethylbenzene #2

R.T.: 23.173 min
Delta R.T.: 0.001 min
Response: 413616
Conc: 1.04 ppb



#29 m,p-xylene #2

R.T.: 23.310 min
Delta R.T.: 0.003 min
Response: 1007780
Conc: 2.08 ppb

7.5.9

7

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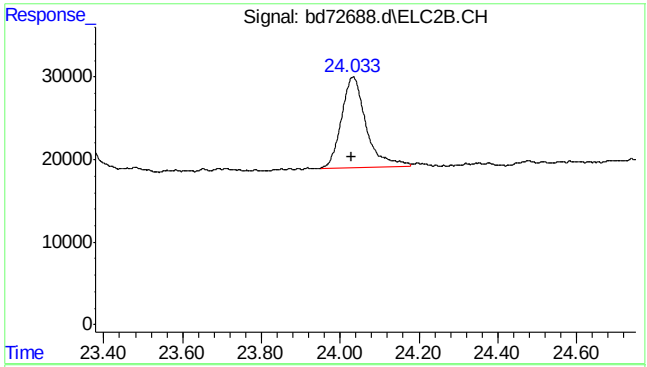
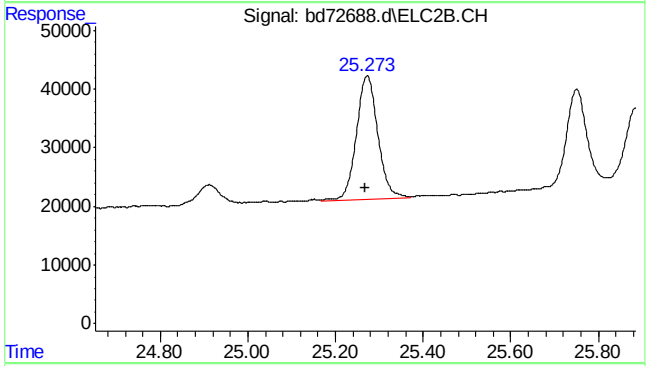


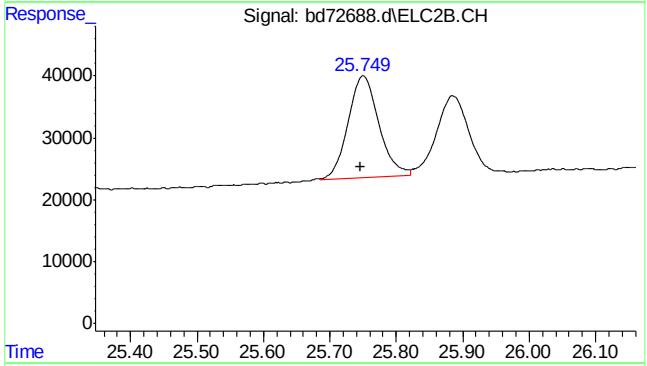
#30 o-xylene #2

R.T.: 24.033 min
Delta R.T.: 0.005 min
Response: 483692
Conc: 1.16 ppb m



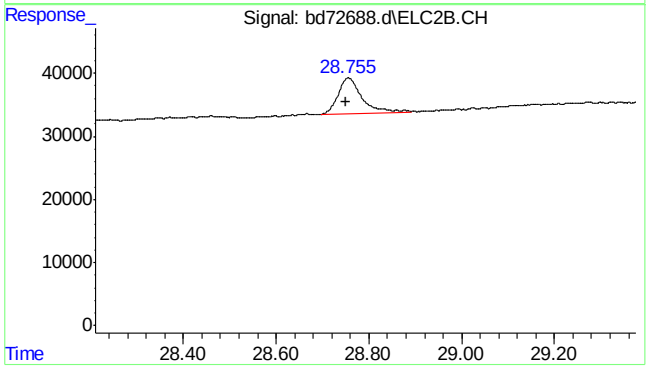
#31 1,3,5-trimethylbenzene #2

R.T.: 25.273 min
Delta R.T.: 0.005 min
Response: 712865
Conc: 1.08 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 530966
Conc: 1.13 ppb m



#33 naphthalene #2

R.T.: 28.755 min
Delta R.T.: 0.005 min
Response: 204485
Conc: 0.71 ppb m

7.5.9

7

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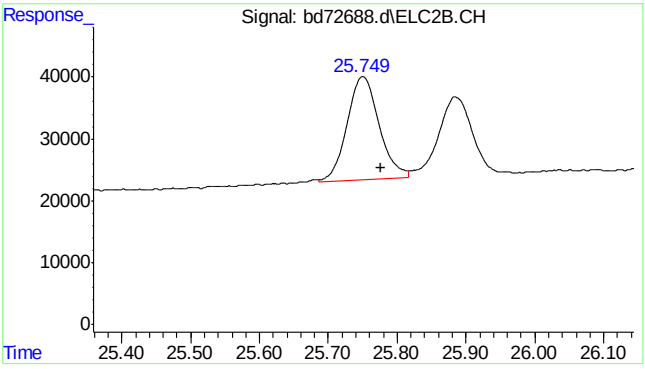

#34 c9-c10 arom as 1,2,4-tmb

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	530521
Conc:	1.13 ppb m

7.5.9

7

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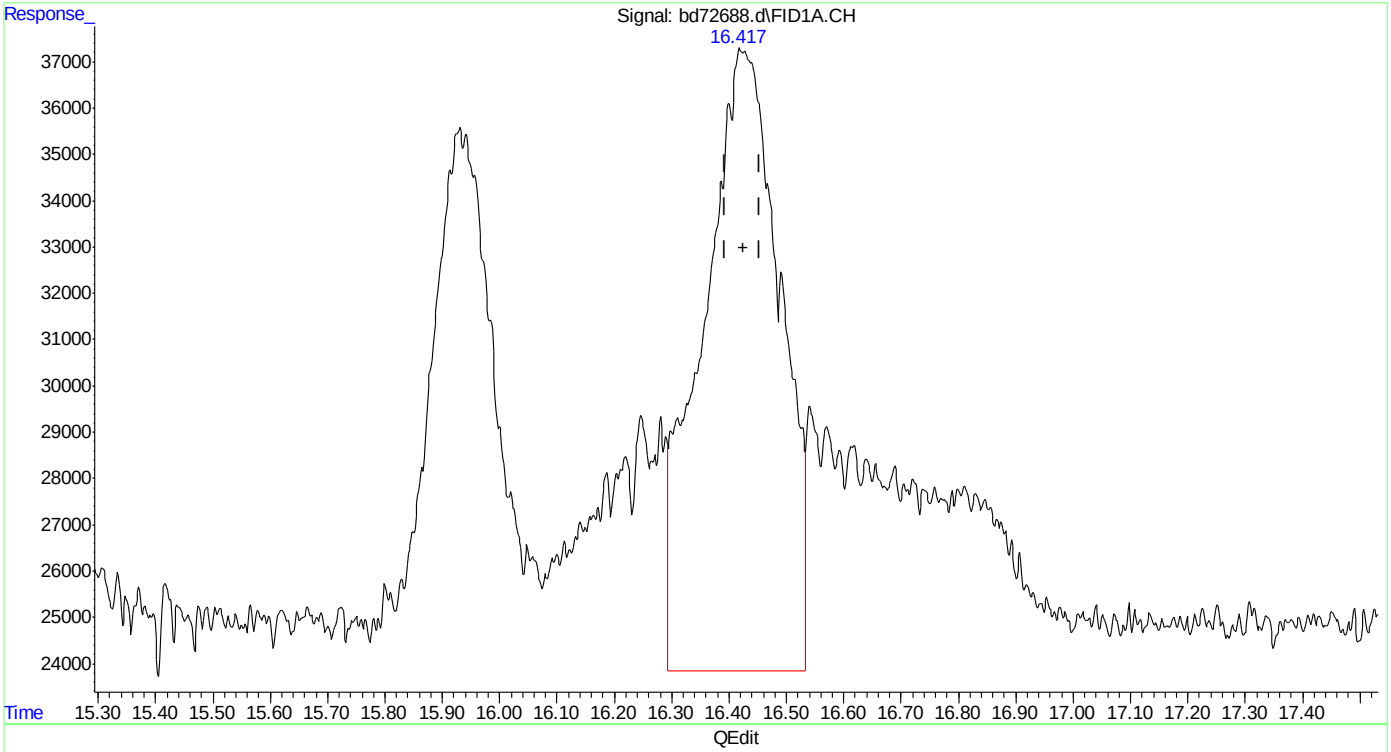
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(6) fluorobenzene (s)

16.420min 1.751 ppb

response 1271087

(+) = Expected Retention Time

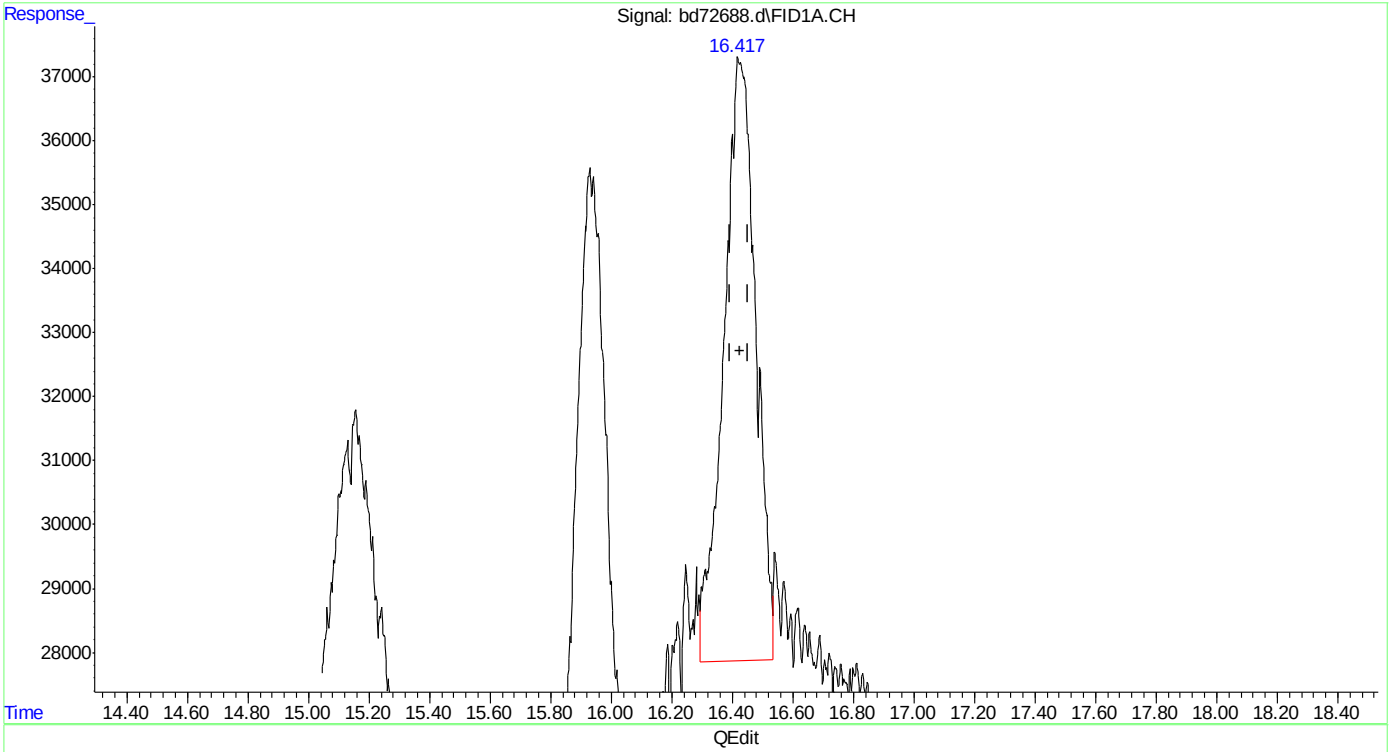
bd160219master.M Fri Feb 19 13:09:18 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(6) fluorobenzene (s)

16.417min 0.952 ppb m

response 690853

(+) = Expected Retention Time

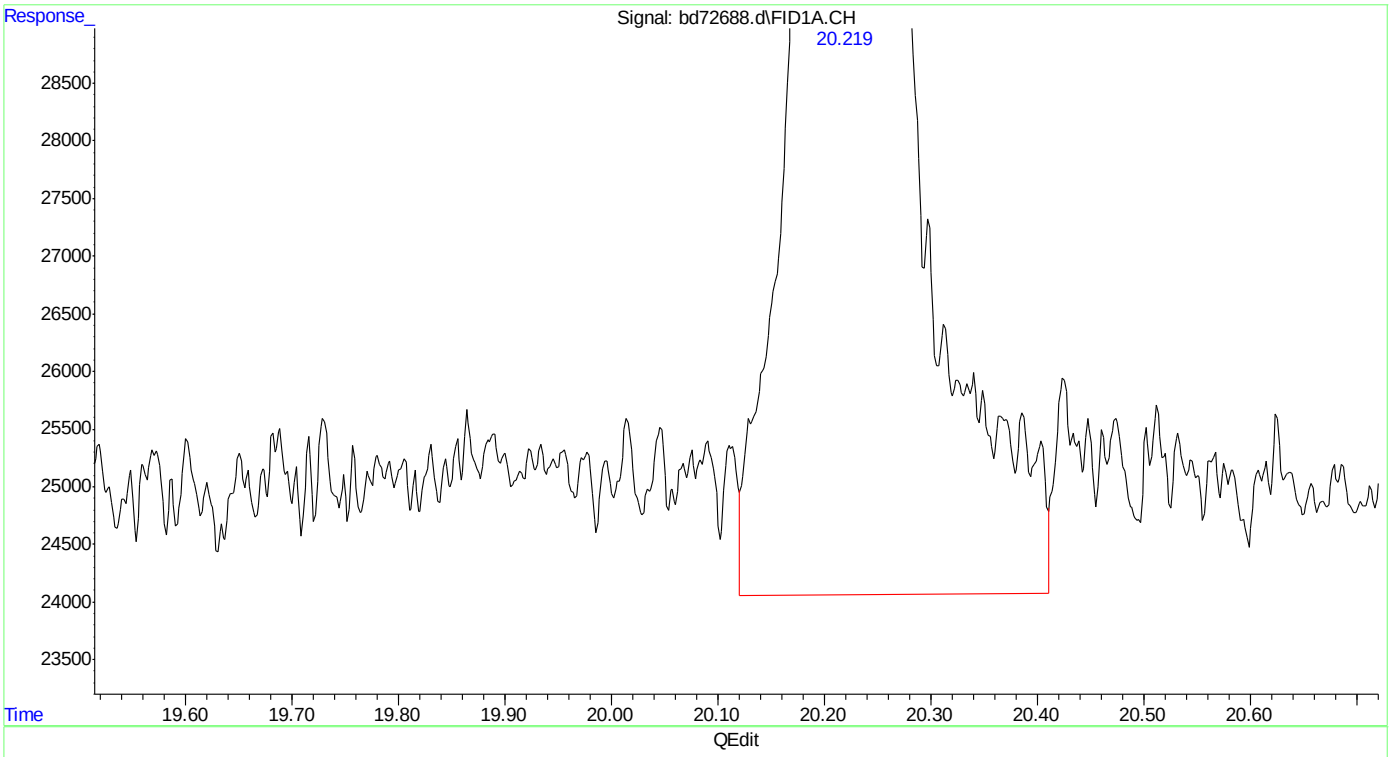
bd160219master.M Fri Feb 19 13:09:43 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(8) toluene

20.223min 1.198 ppb

response 921774

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:09:48 2016

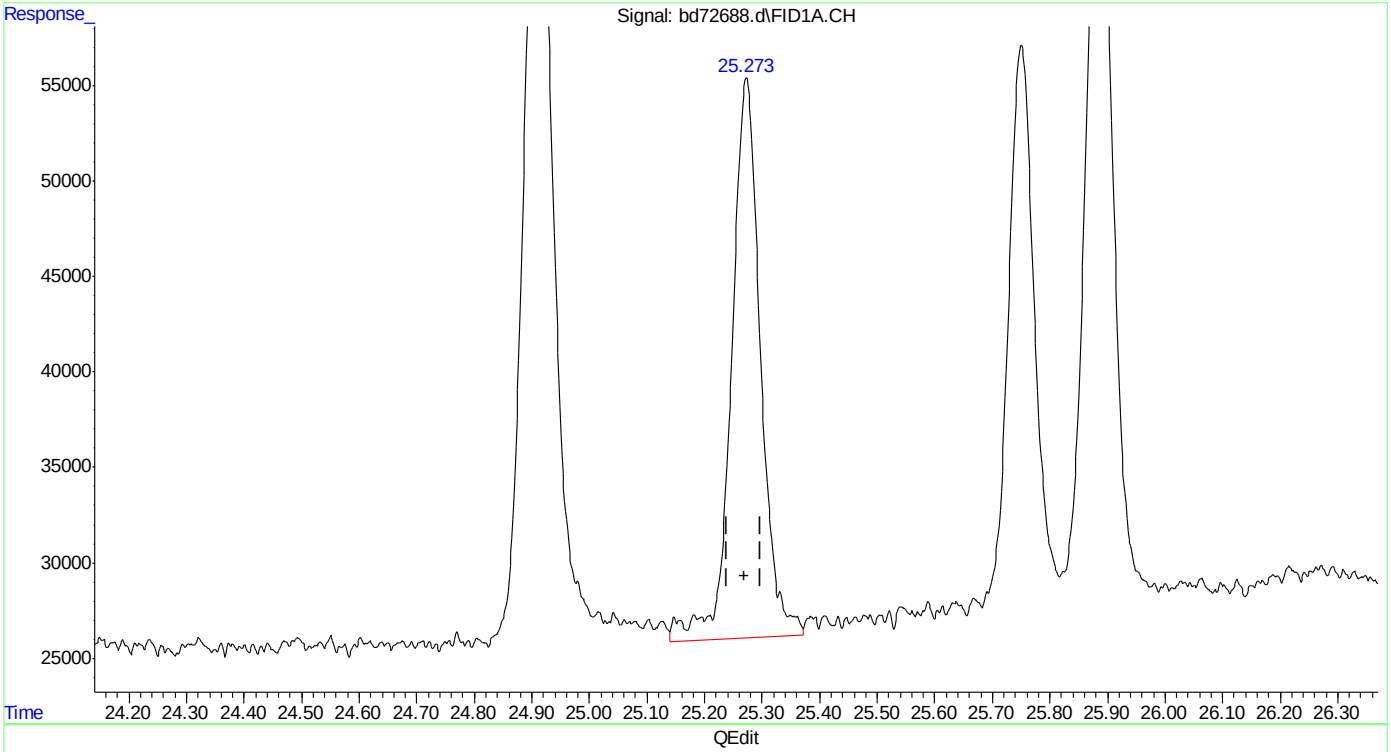
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) 1,3,5-trimethylbenzene (t)
25.273min 1.083 ppb
response 1029688

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:10:35 2016

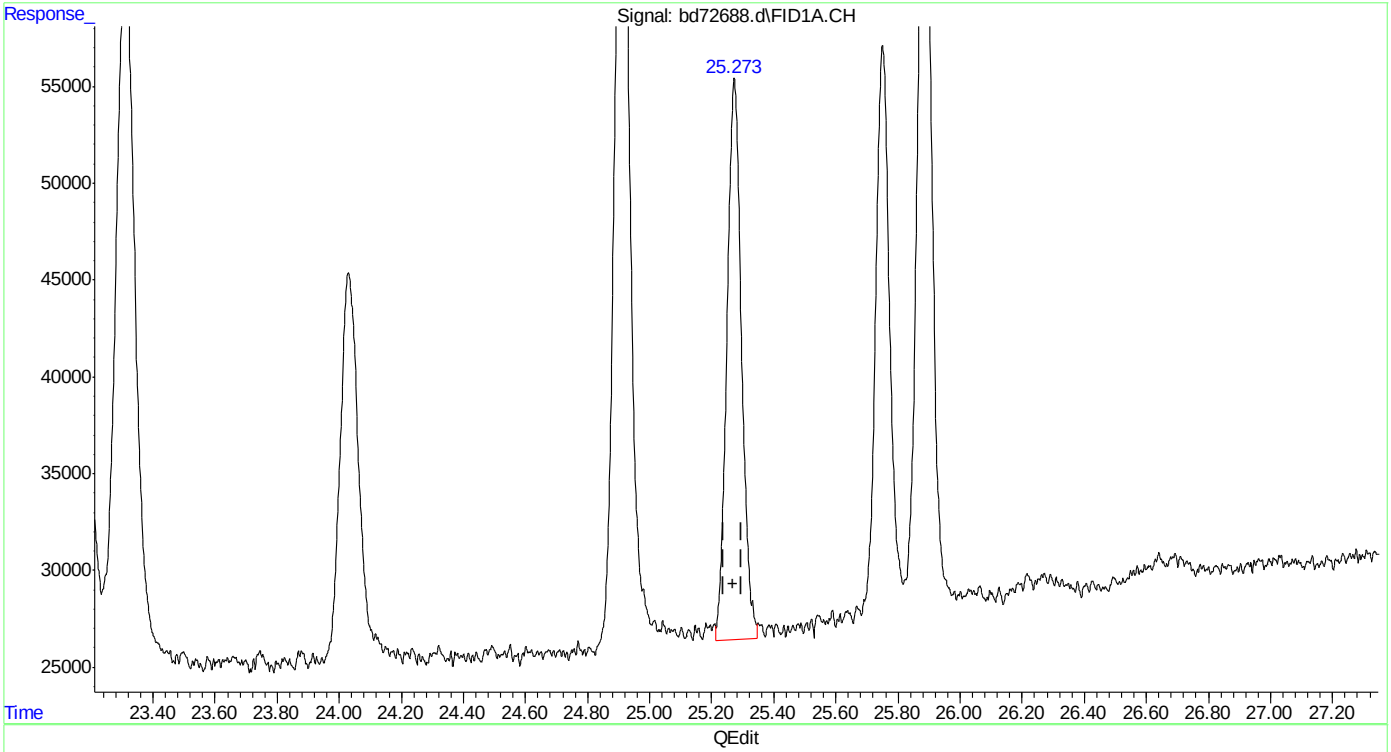
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) 1,3,5-trimethylbenzene (t)
25.273min 0.995 ppb m
response 946024

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:10:43 2016

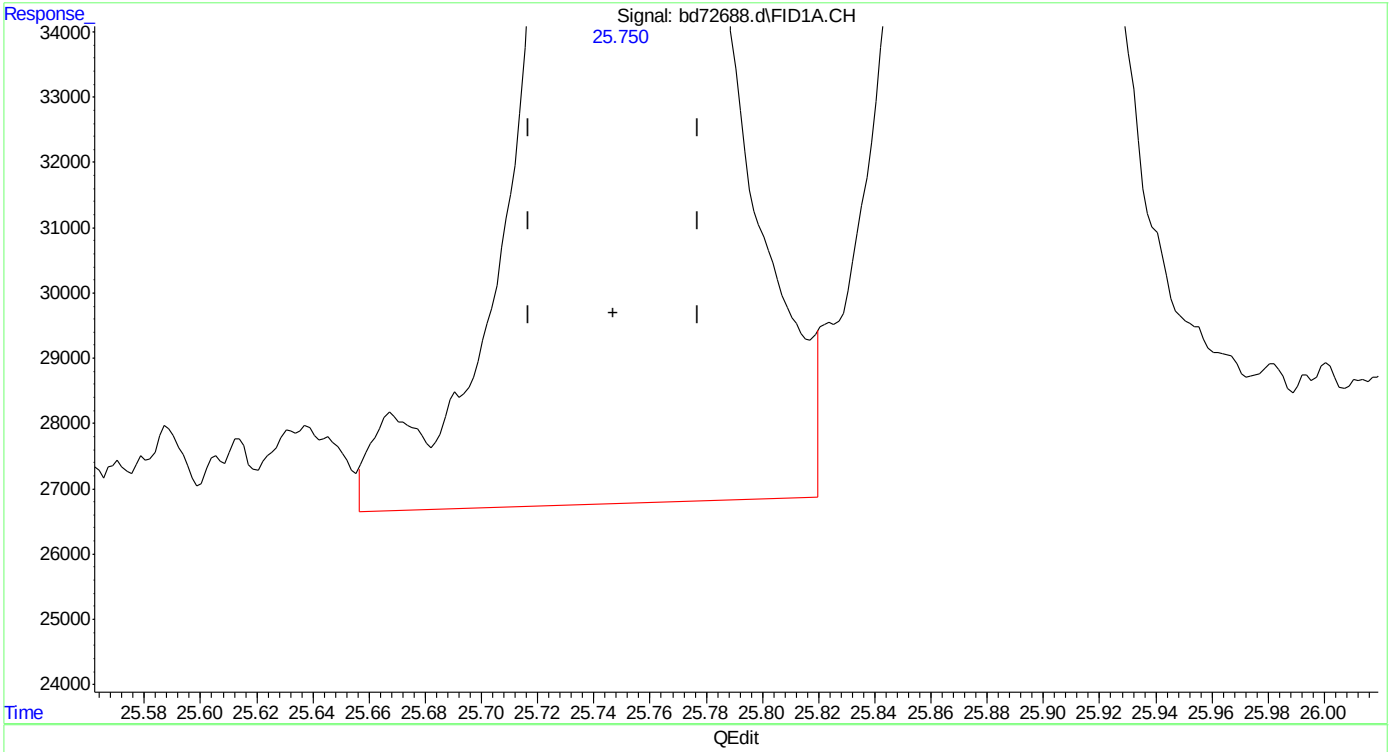
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 1,2,4-trimethylbenzene
25.751min 1.156 ppb
response 1016771

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:10:50 2016 Page: 1

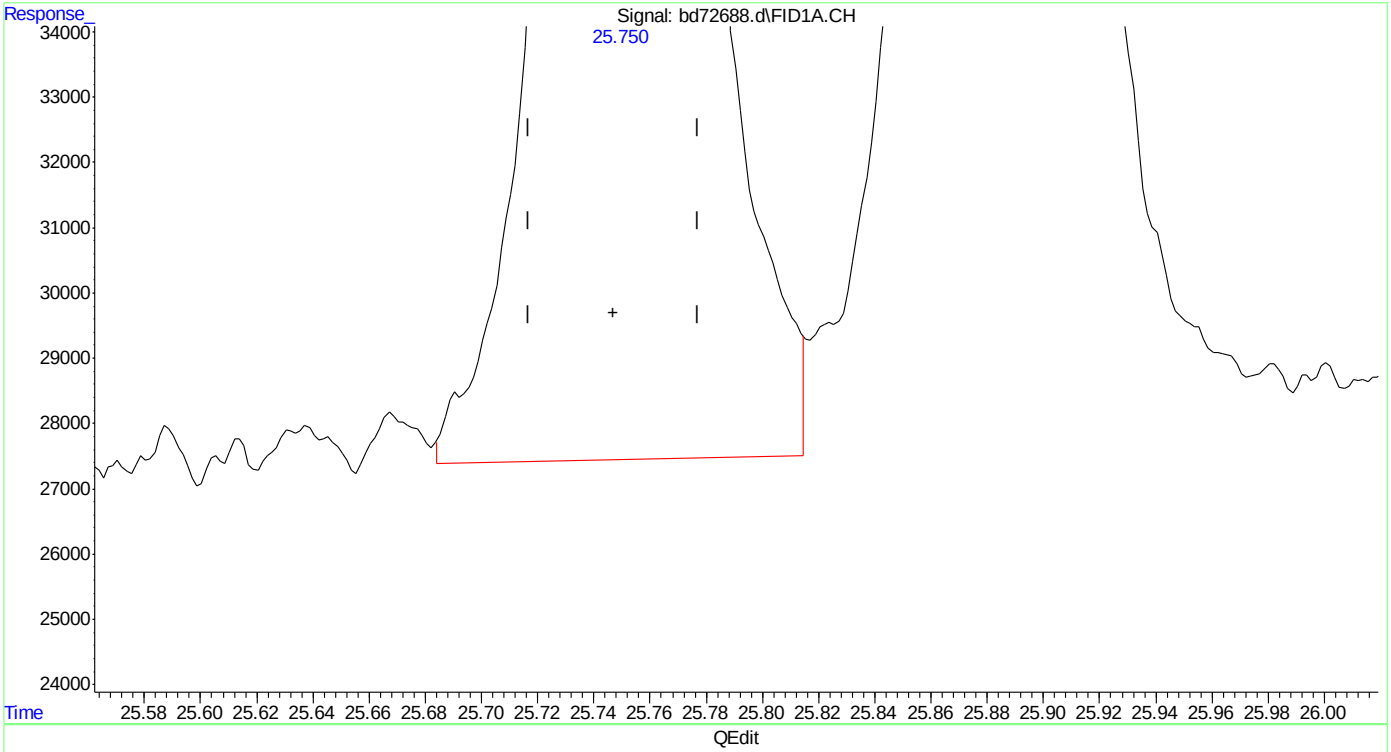
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 1,2,4-trimethylbenzene
25.750min 1.067 ppb m
response 938216

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:10:59 2016

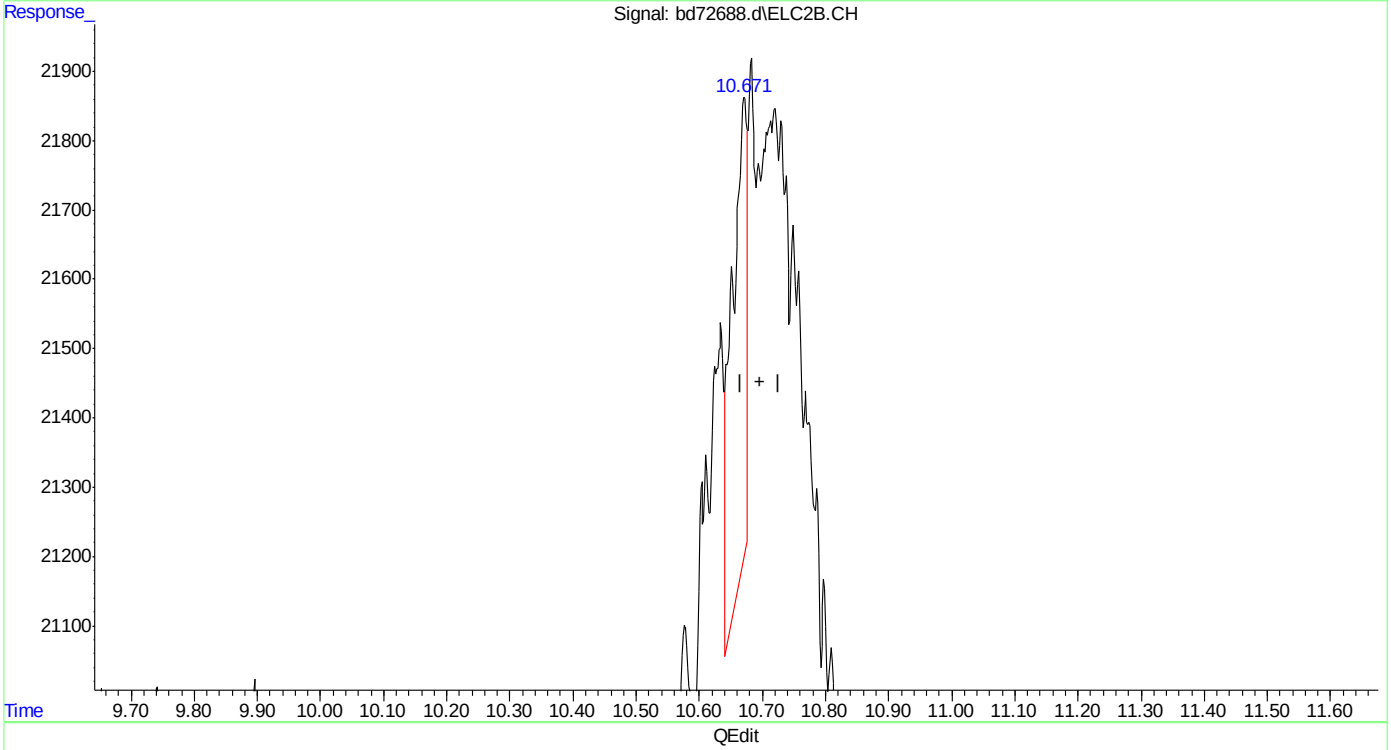
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.672min 0.071 ppb
response 11136

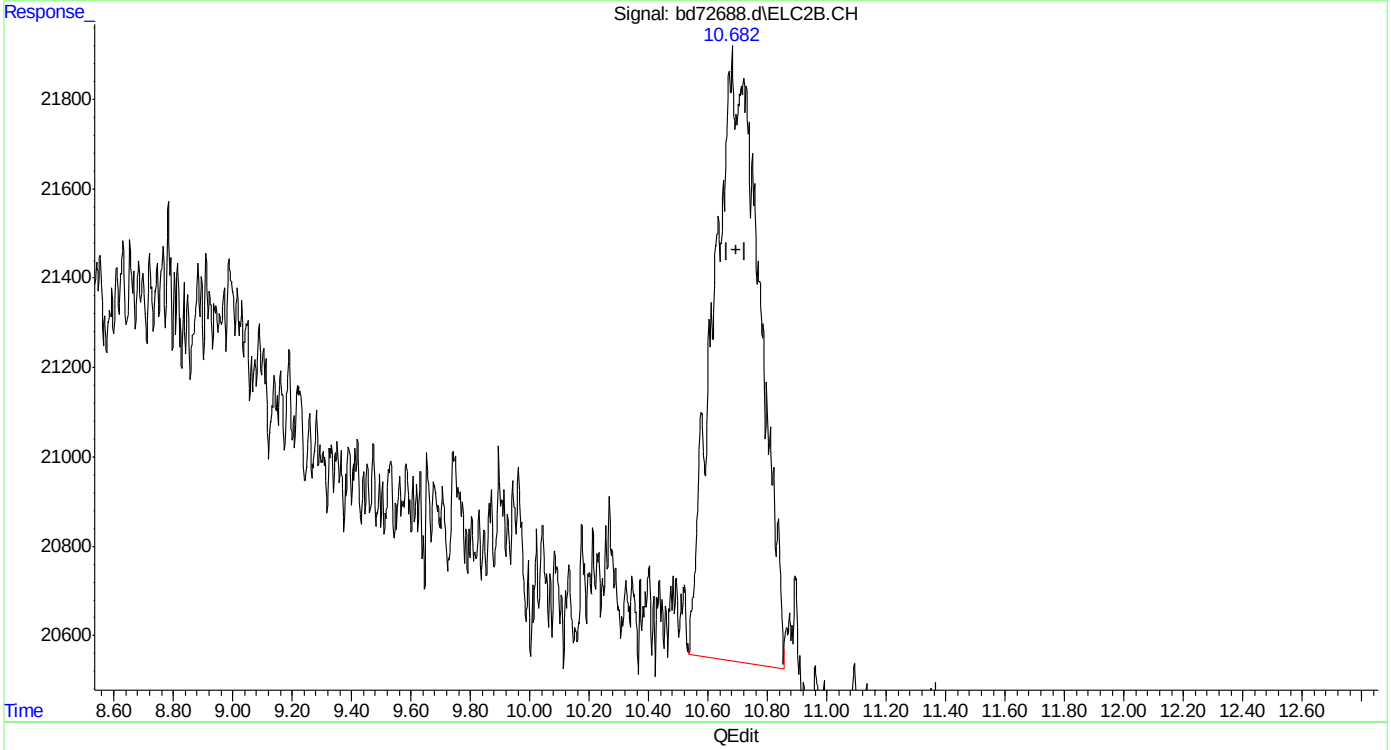
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:11:21 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) mtbe #2
10.682min 0.931 ppb m
response 146572

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:11:34 2016

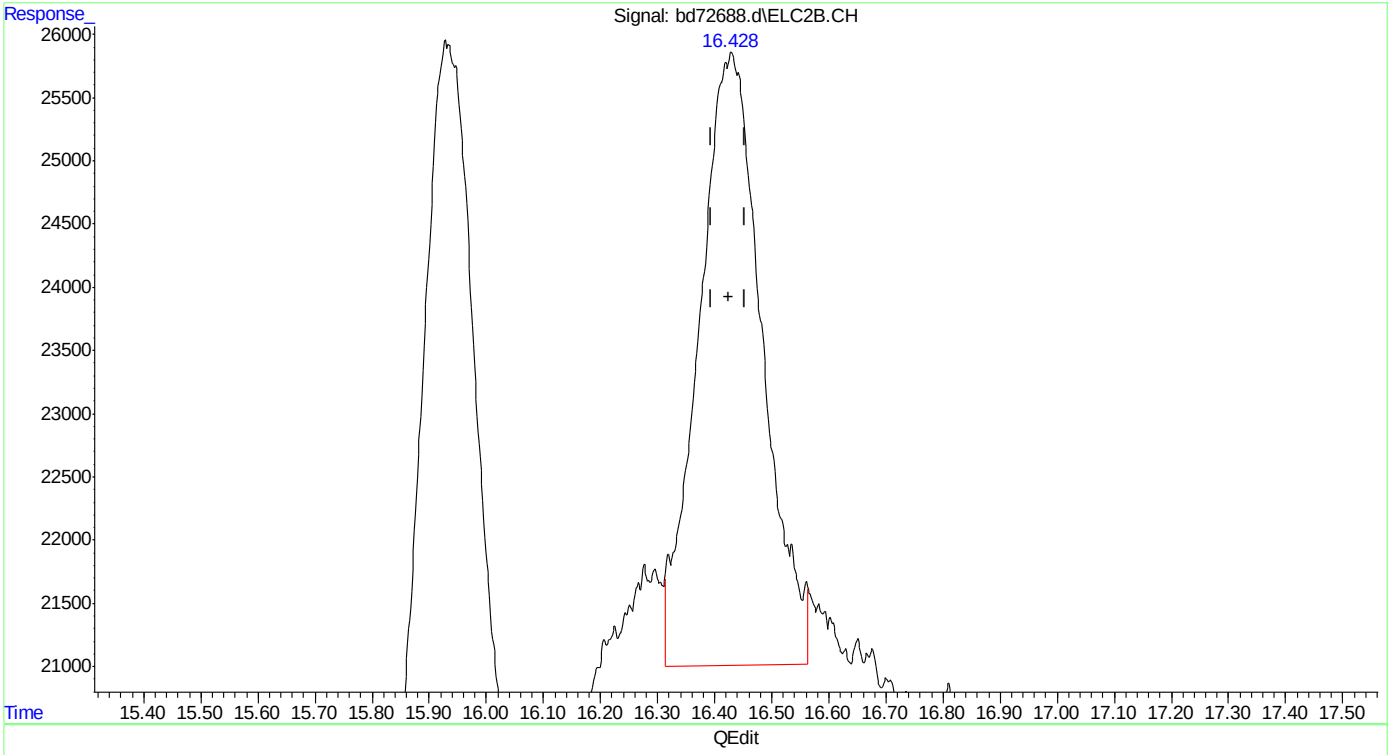
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(25) fluorobenzene #2 (s)

16.428min 1.052 ppb m

response 373315

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:12:03 2016

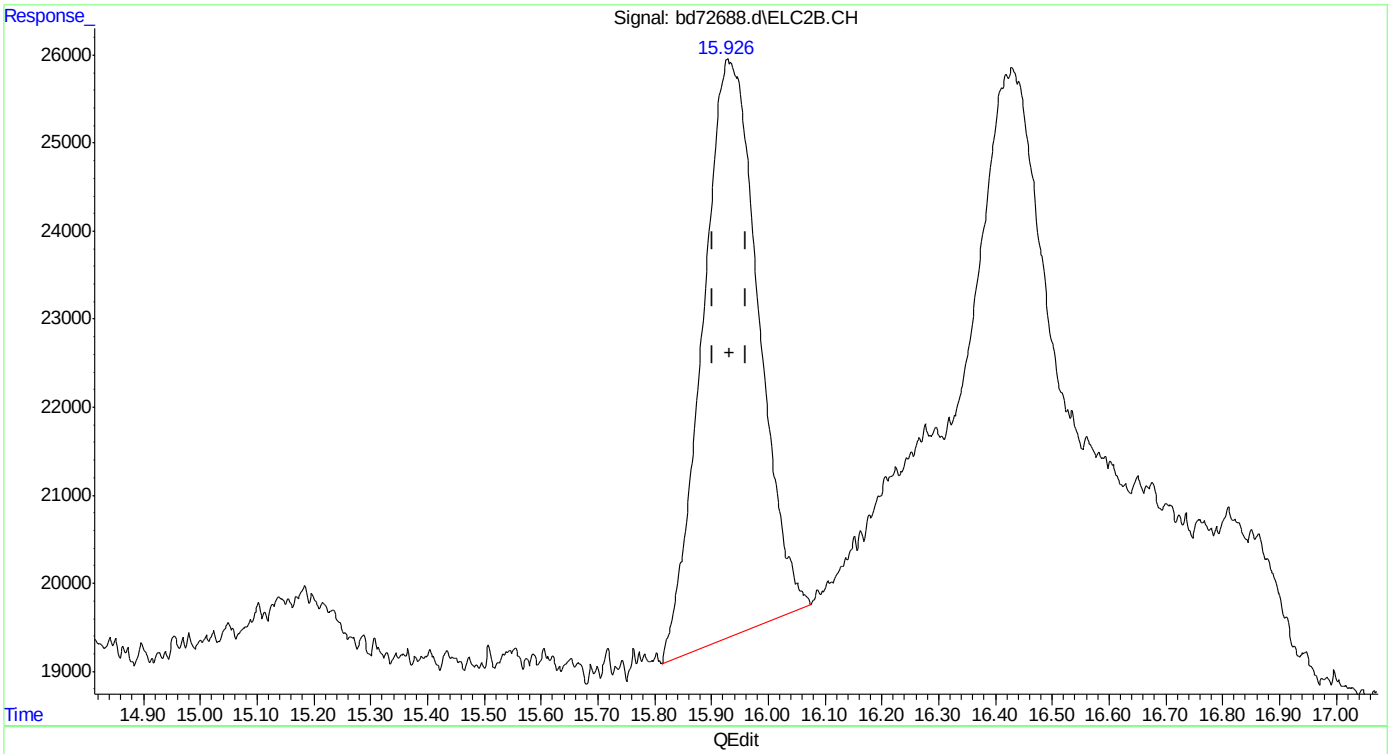
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) benzene #2

15.928min 0.962 ppb

response 449314

(+) = Expected Retention Time

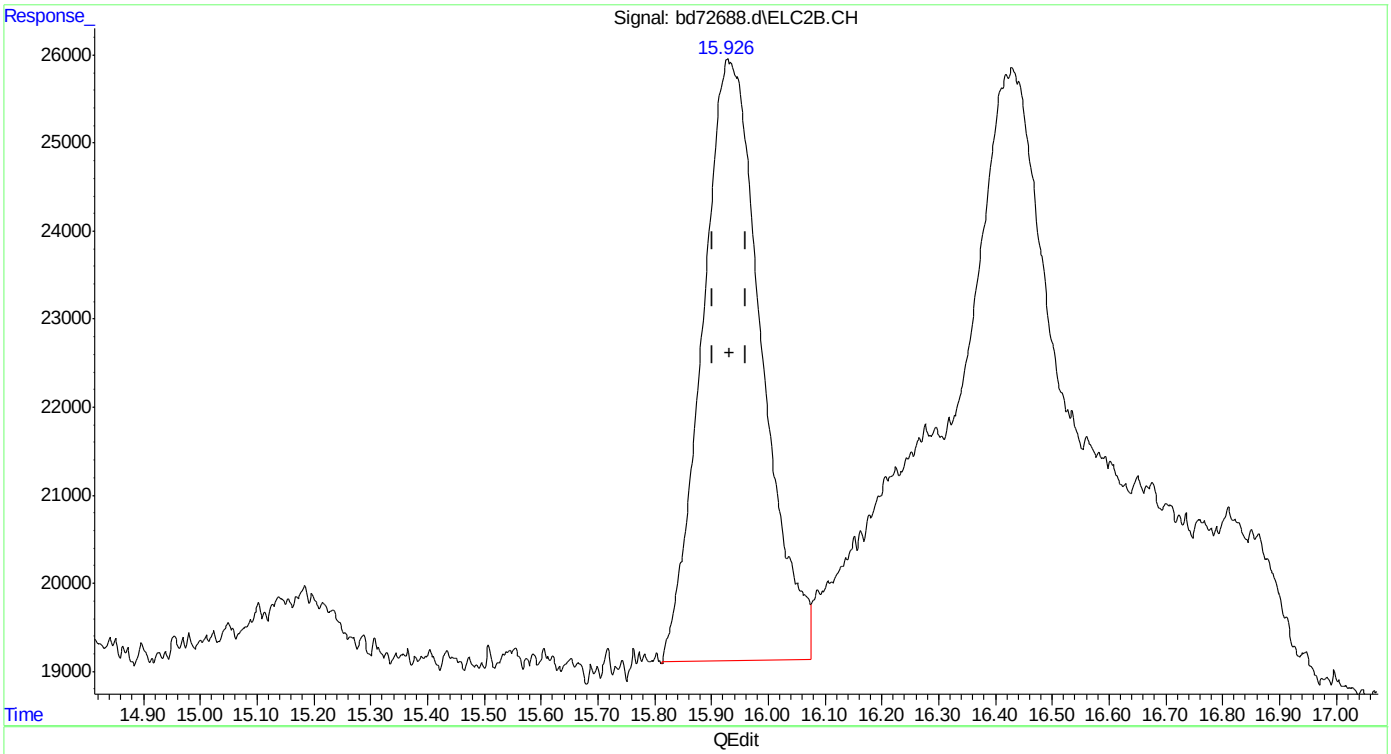
bd160219master.M Fri Feb 19 13:12:07 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) benzene #2

15.926min 1.064 ppb m

response 496928

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:12:12 2016

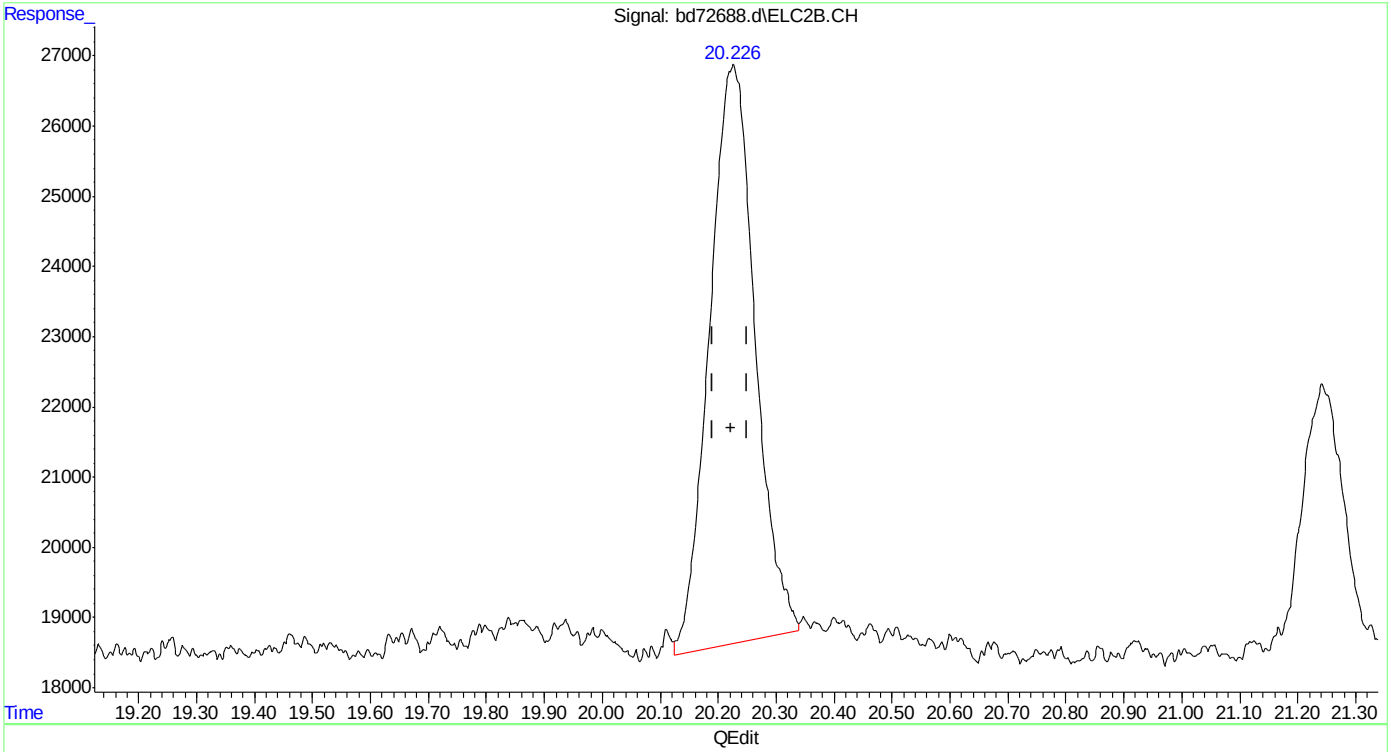
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) toluene #2
20.227min 1.036 ppb
response 449679

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:12:16 2016

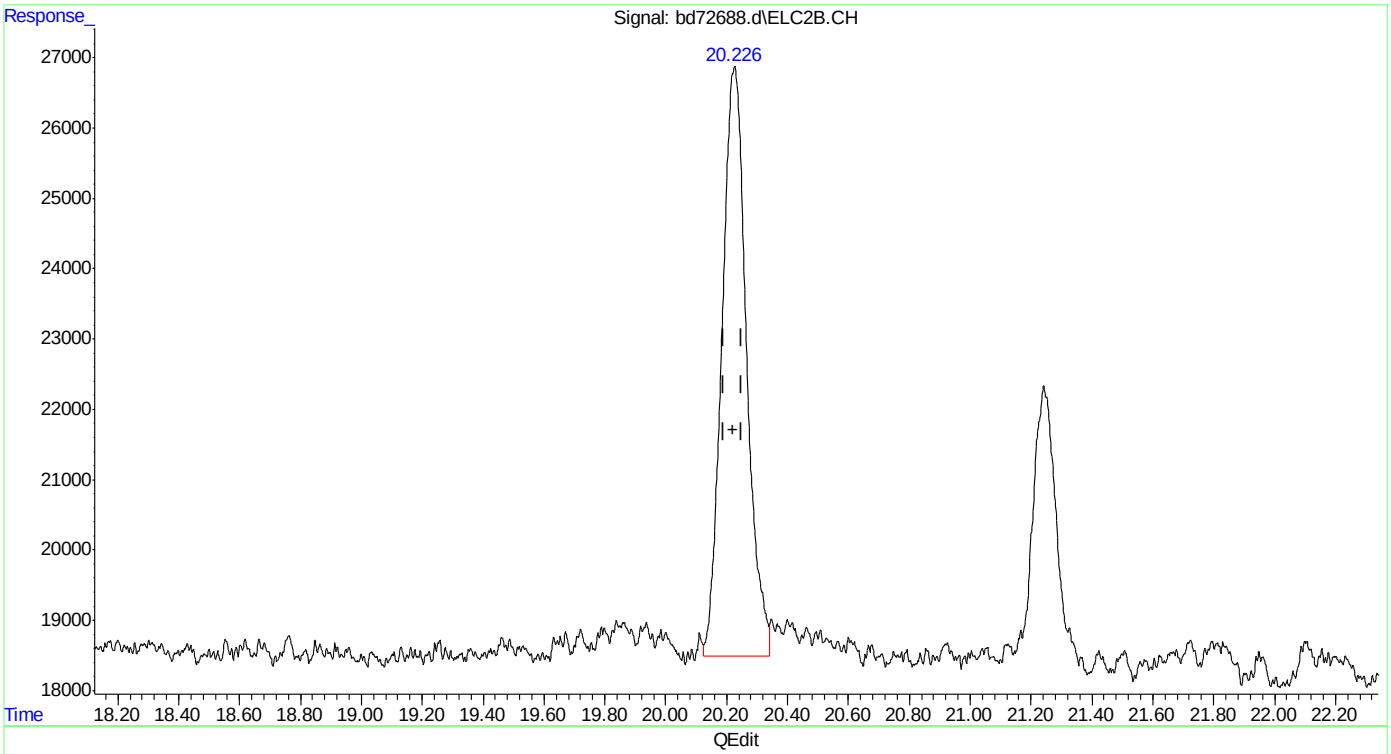
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(26) toluene #2

20.226min 1.085 ppb m

response 470661

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:12:23 2016

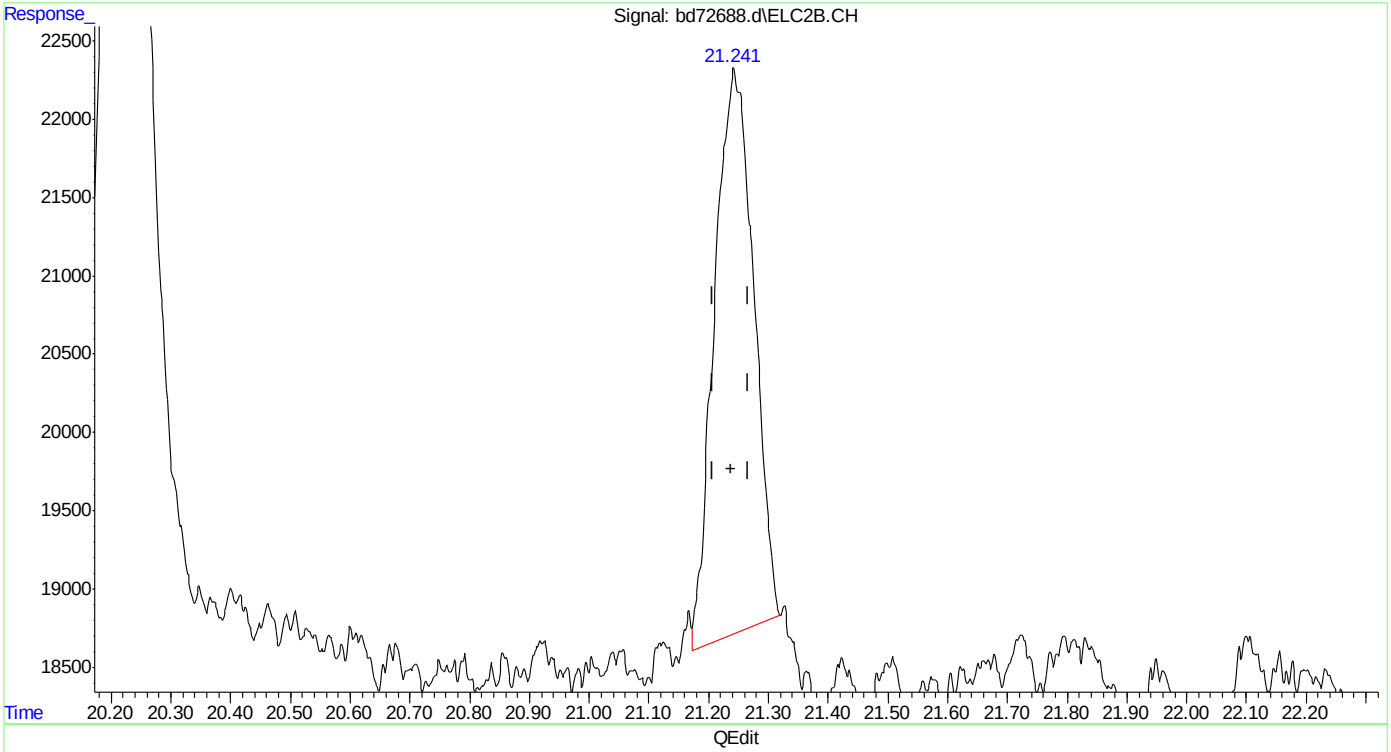
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(27) 2,3,4-trifluorotoluene #2 (s)
21.242min 0.818 ppb
response 164602

(+) = Expected Retention Time

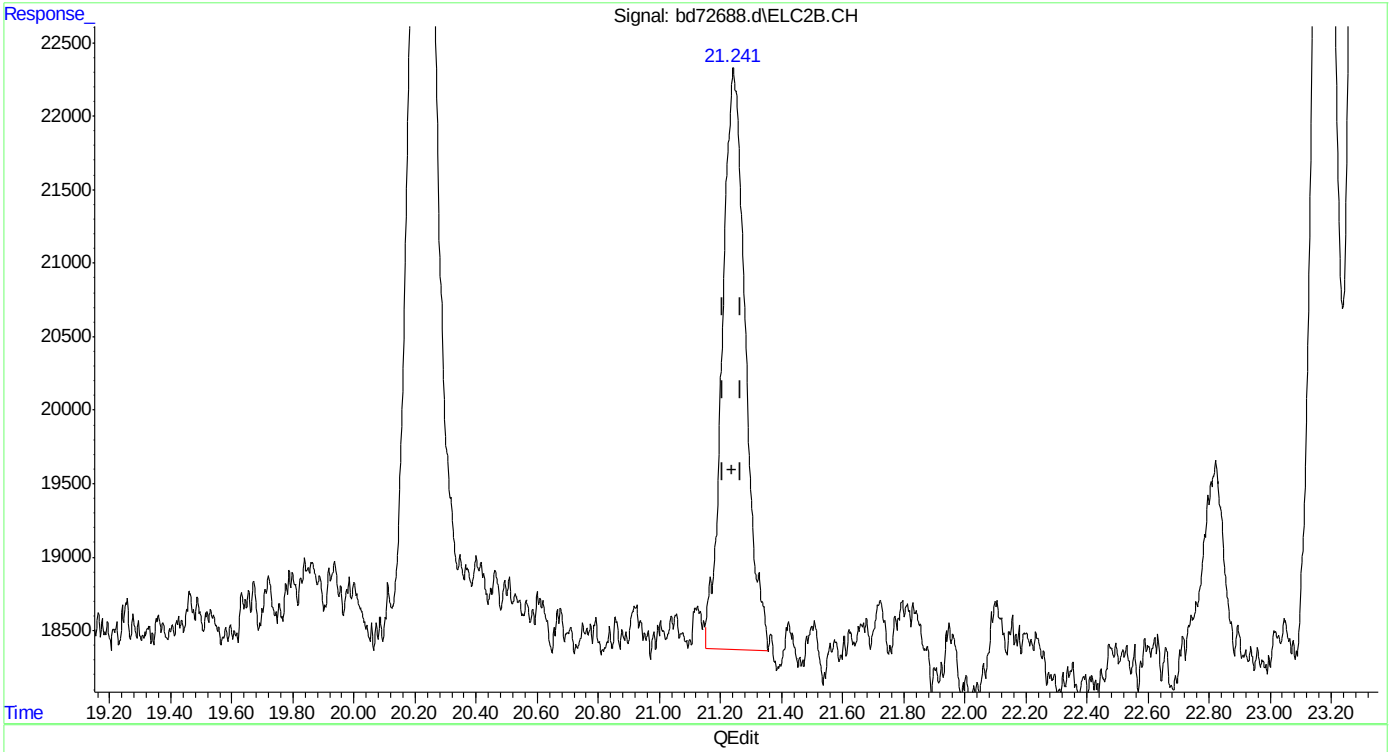
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(27) 2,3,4-trifluorotoluene #2 (s)
21.241min 1.027 ppb m
response 206659

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:12:37 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(30) o-xylene #2
24.033min 1.195 ppb
response 496813

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:12:48 2016

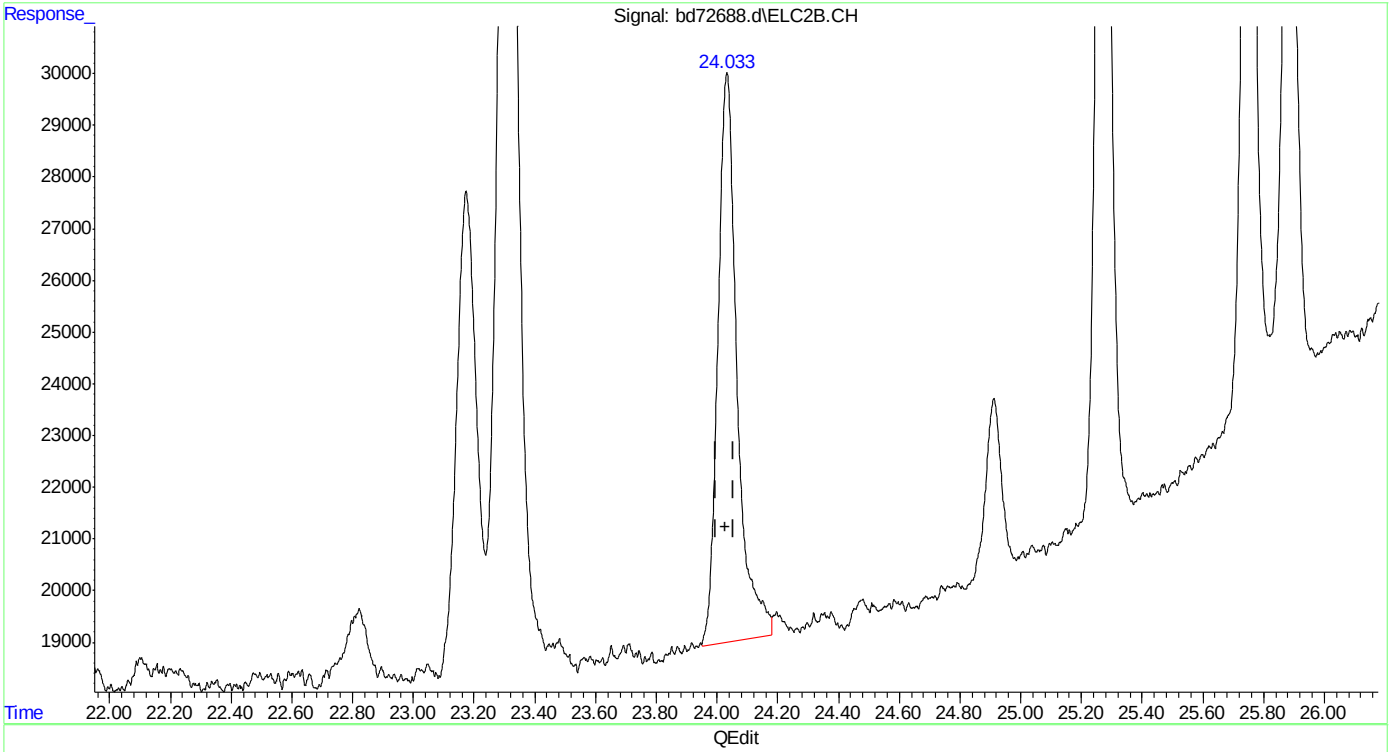
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(30) o-xylene #2
24.033min 1.164 ppb m
response 483692

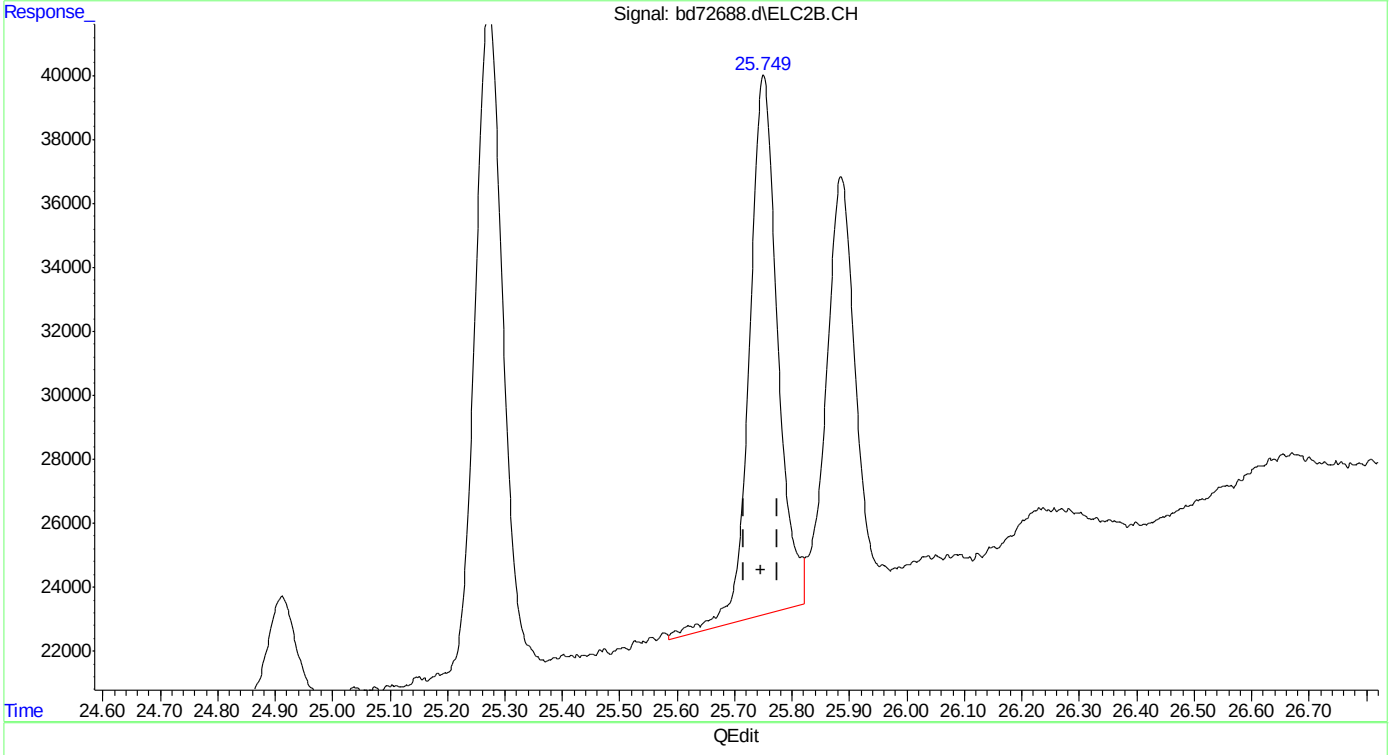
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.751min 1.232 ppb
response 578336

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:05 2016

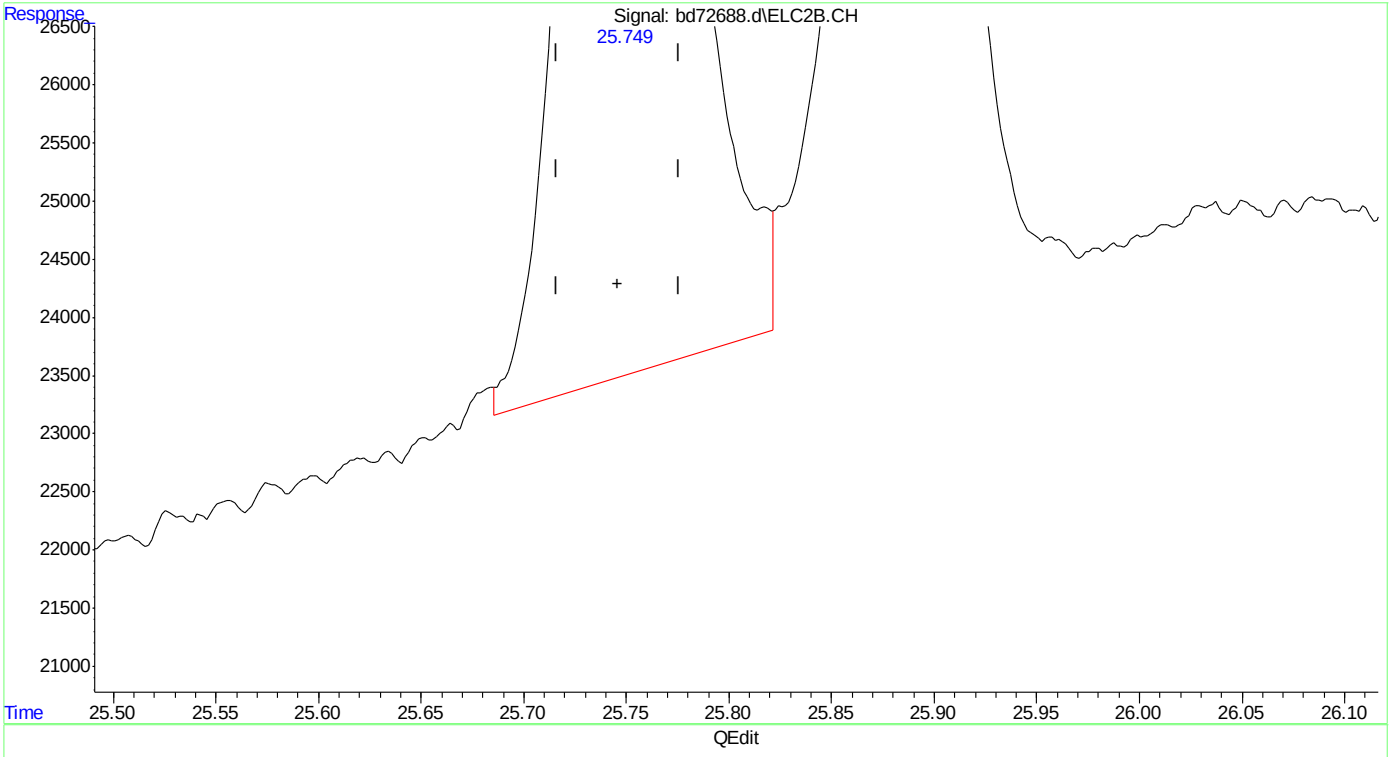
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(32) 1,2,4-trimethylbenzene #2
25.749min 1.131 ppb m
response 530966

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:19 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(33) naphthalene #2
28.756min 0.790 ppb
response 228505

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:25 2016

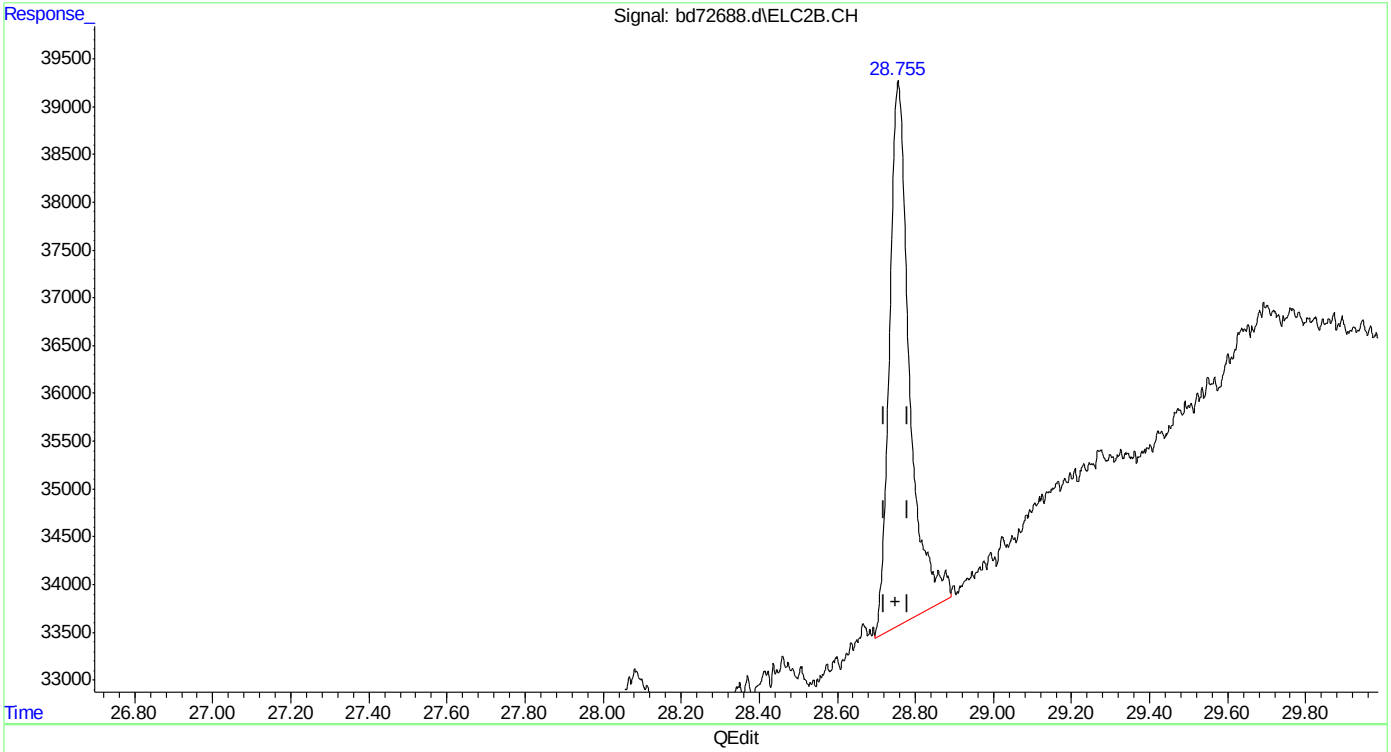
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(33) naphthalene #2

28.755min 0.707 ppb m

response 204485

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:13:37 2016

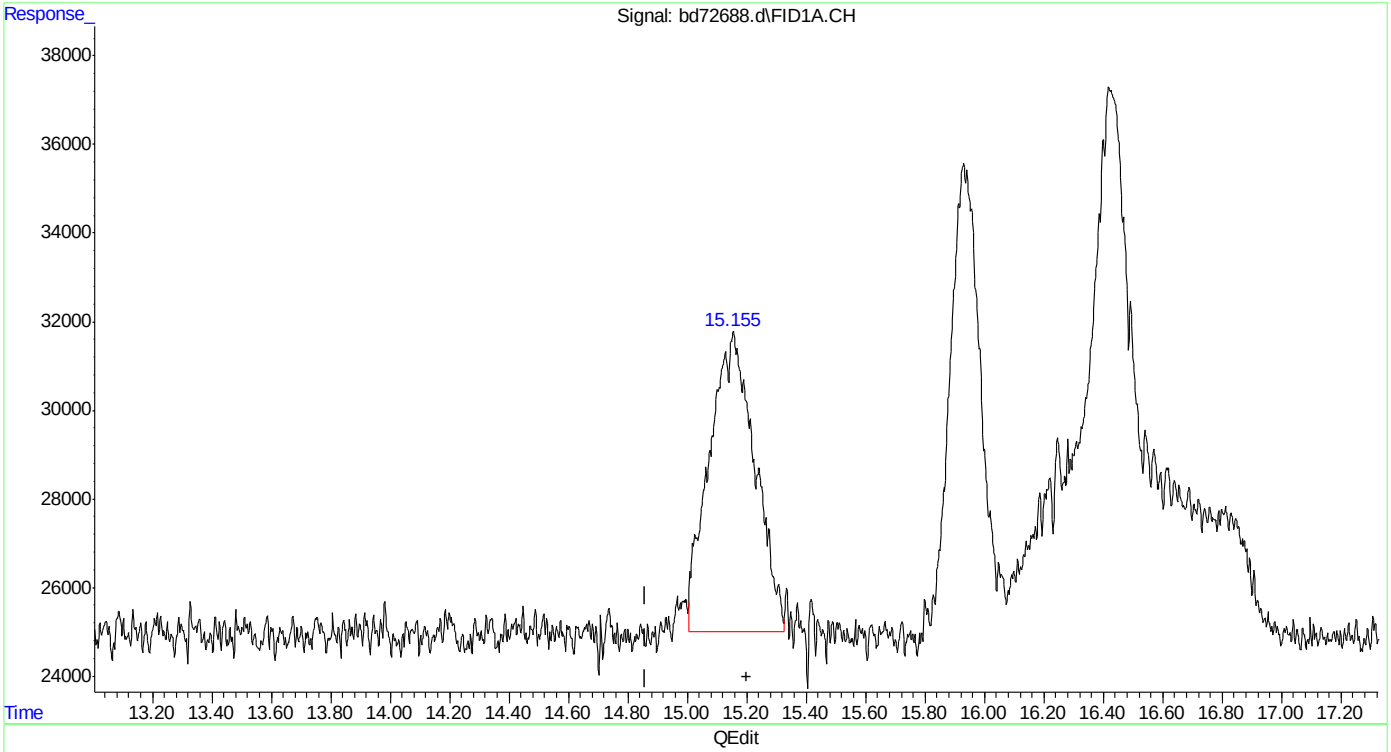
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:13:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) rt10/13 (h)
15.200min 1.001 ppb m
response 721543

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:14:04 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3572-50 (Sig #1); icv3752-50 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:52:11 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.425	35571927	52.281 ppb	m
Spiked Amount 50.000		Recovery	= 104.56%	
6) s 2,3,4-trifluorotoluene	21.239	28429901	54.567 ppb	
Spiked Amount 50.000		Recovery	= 109.13%	
16) s fluorobenzene #2	16.426	15798777	46.569 ppb	
Spiked Amount 50.000		Recovery	= 93.14%	
18) s 2,3,4-trifluorotoluen...	21.238	9231850	46.896 ppb	
Spiked Amount 50.000		Recovery	= 93.79%	
Target Compounds				
1) h rt5.5-7	7.470	32771312	53.136 ppb	m
2) h rt7/10	9.920	37519205	60.834 ppb	m
3) h rt10/13	15.200	36582580	59.315 ppb	m
8) h rt20/25	22.840	38978420	48.709 ppb	m
10) h decane	24.930	37220553	46.513 ppb	
11) h butylcyclohexane	25.908	41168976	51.447 ppb	
14) mtbe #2	10.683	8283695	53.752 ppb	m
15) benzene #2	15.932	24916343	51.522 ppb	
17) toluene #2	20.222	23146349	51.127 ppb	
19) ethylbenzene #2	23.173	20751208	50.002 ppb	
20) m,p-xylene #2	23.309	49993765	100.300 ppb	
21) o-xylene #2	24.030	21057643	48.432 ppb	
22) t 1,3,5-trimethylbenzen...	25.271	32008982	47.701 ppb	
23) 1,2,4-trimethylbenzen...	25.748	24040884	48.876 ppb	
24) naphthalene #2	28.751	19947215	55.260 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	23978907	48.772 ppb	m

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

7.5.10
7

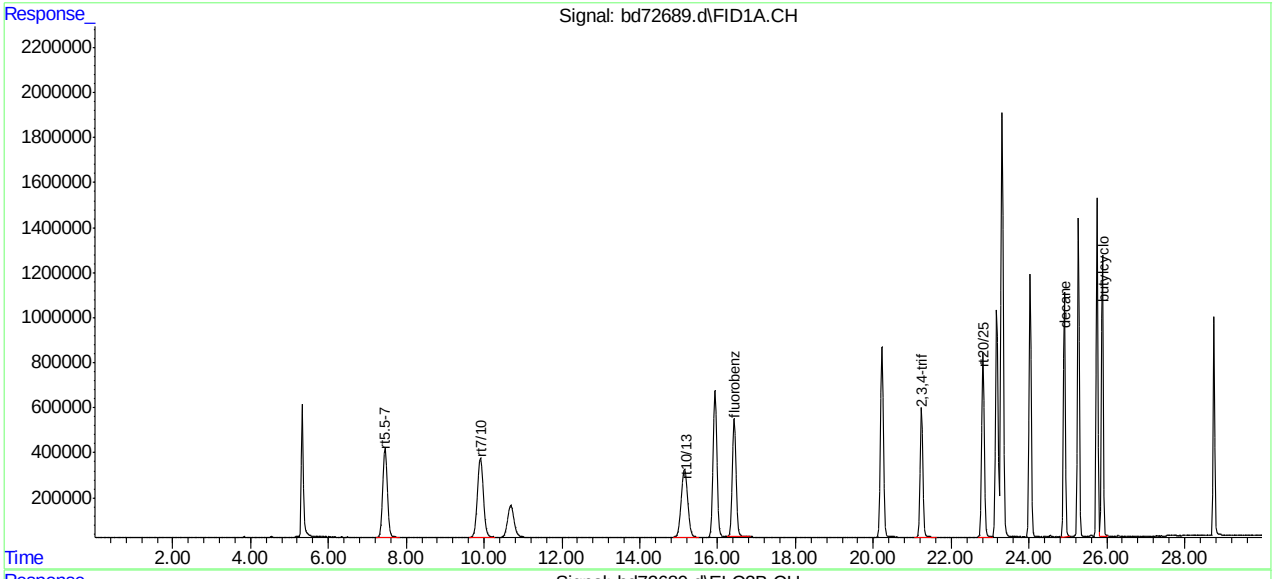
SGS ACCUTEST MC45897

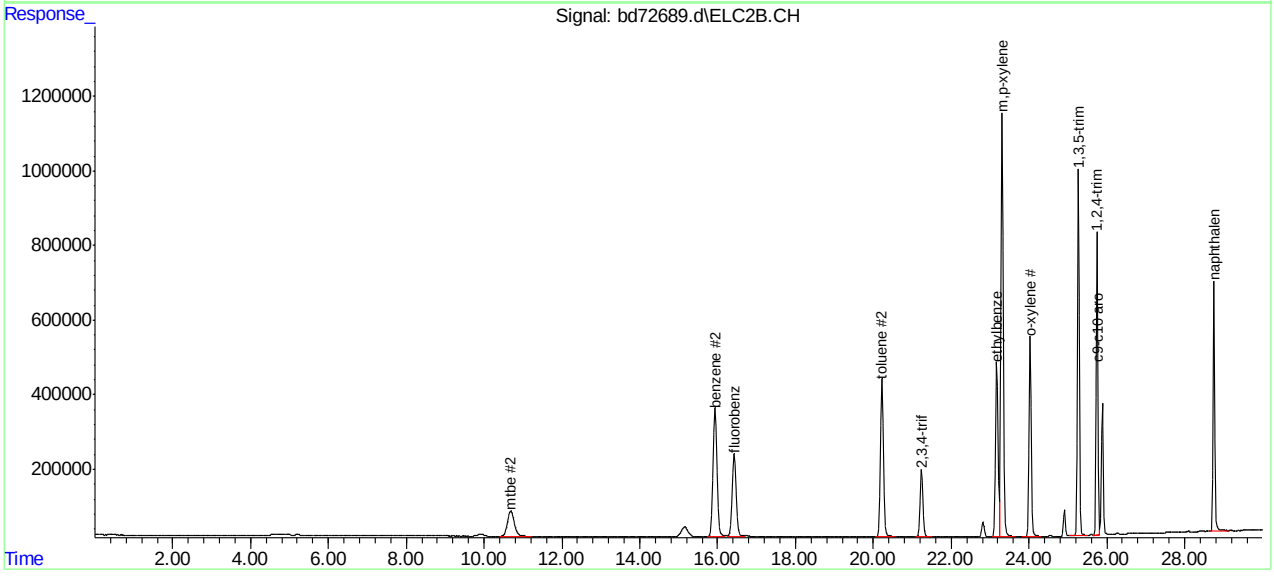
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3572-50 (Sig #1); icv3752-50 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

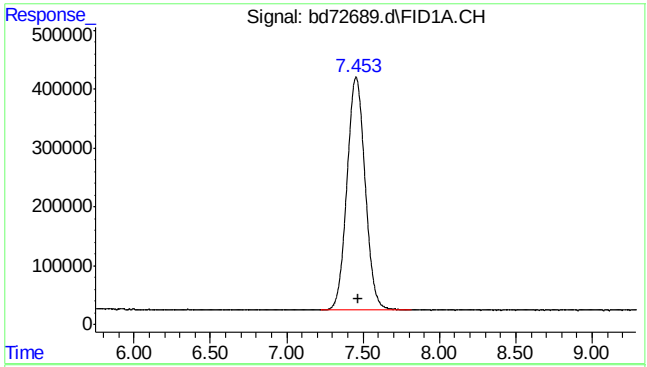
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:52:11 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



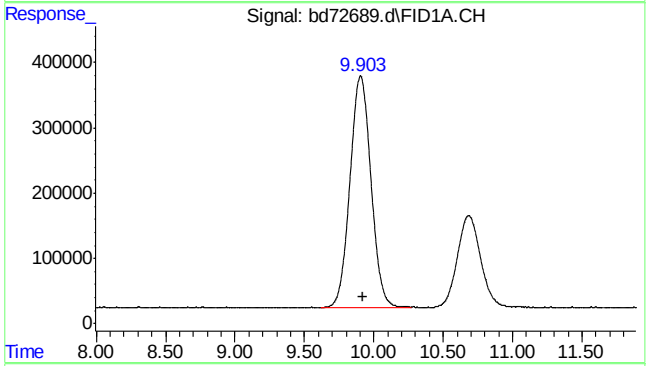


SGS ACCUTEST MC45897



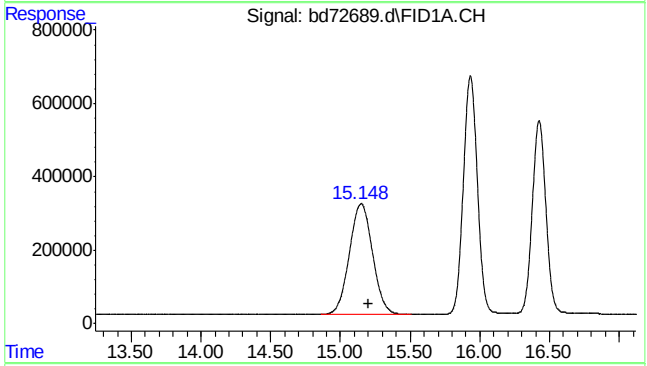
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 32771312
Conc: 53.14 ppb m



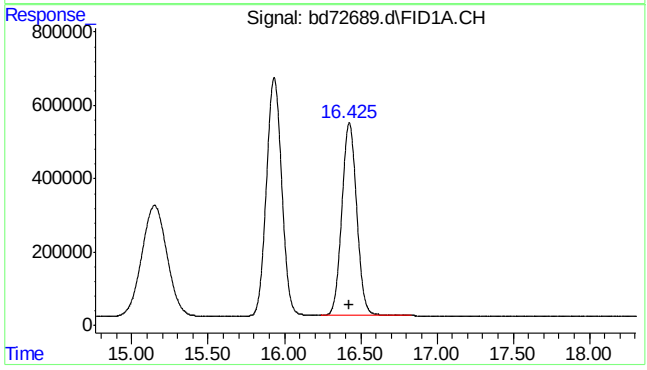
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 37519205
Conc: 60.83 ppb m



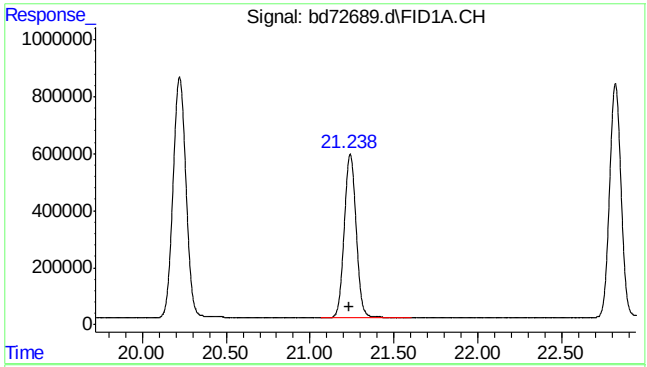
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 36582580
Conc: 59.32 ppb m



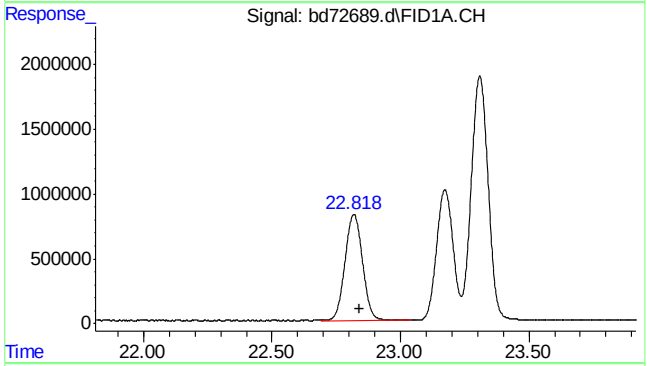
#4 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 35571927
Conc: 52.28 ppb m



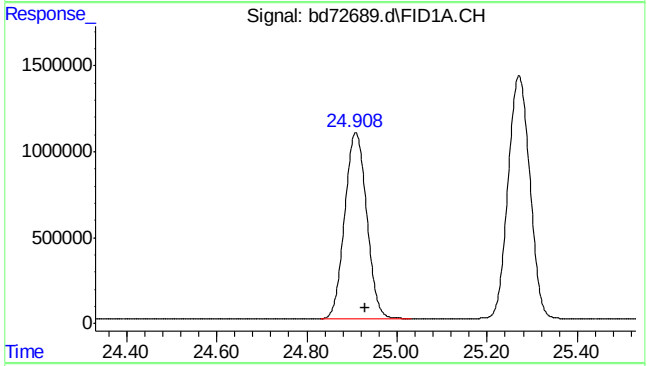
#6 2,3,4-trifluorotoluene

R.T.: 21.239 min
Delta R.T.: 0.002 min
Response: 28429901
Conc: 54.57 ppb



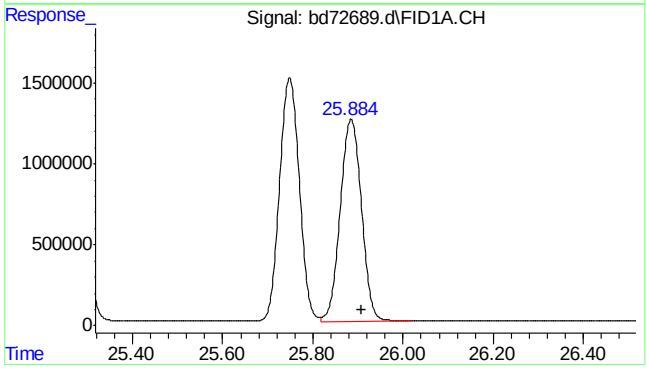
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 38978420
Conc: 48.71 ppb m



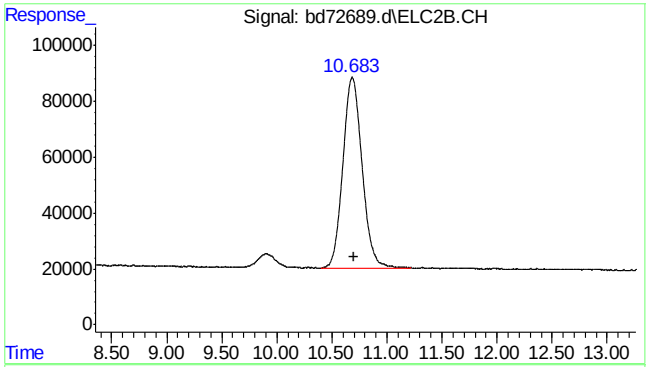
#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 37220553
Conc: 46.51 ppb



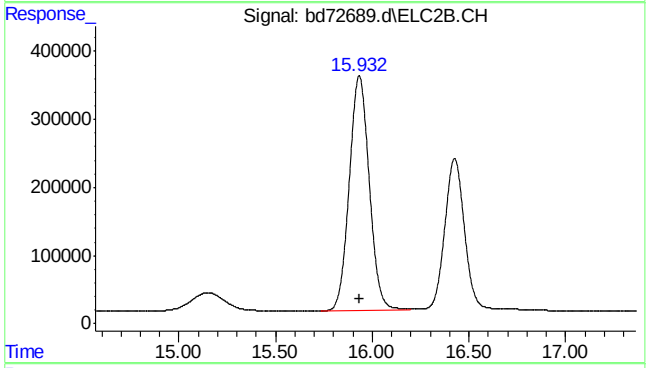
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 41168976
Conc: 51.45 ppb



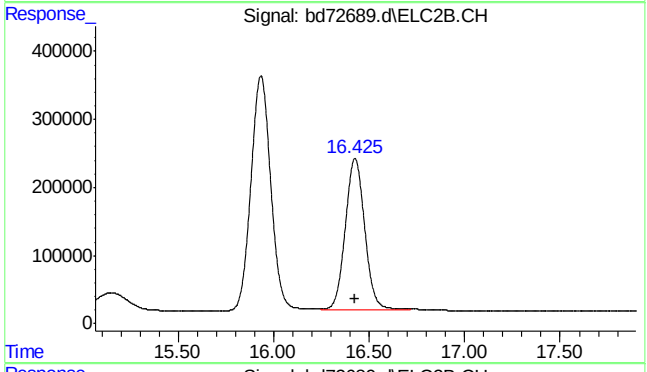
#14 mtbe #2

R.T.: 10.683 min
Delta R.T.: -0.013 min
Response: 8283695
Conc: 53.75 ppb m



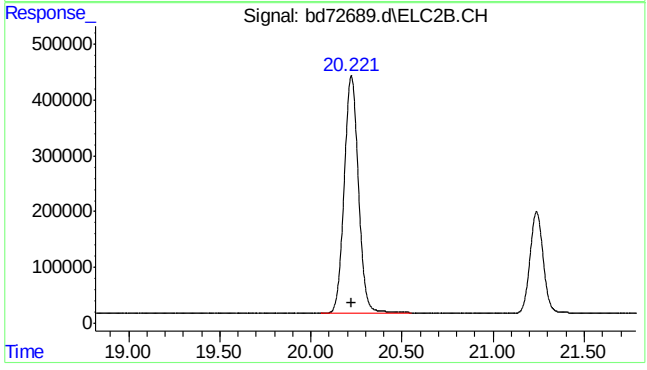
#15 benzene #2

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 24916343
Conc: 51.52 ppb



#16 fluorobenzene #2

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 15798777
Conc: 46.57 ppb



#17 toluene #2

R.T.: 20.222 min
Delta R.T.: 0.000 min
Response: 23146349
Conc: 51.13 ppb

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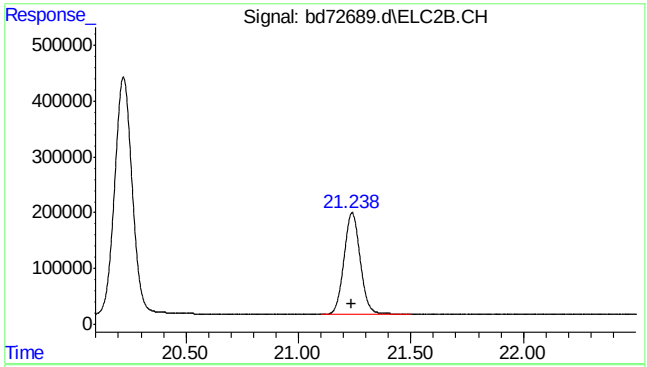
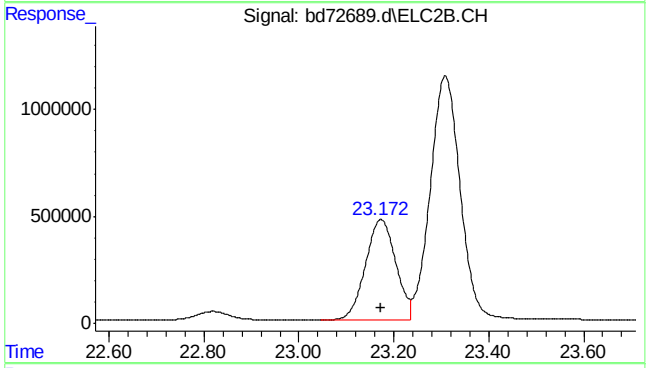


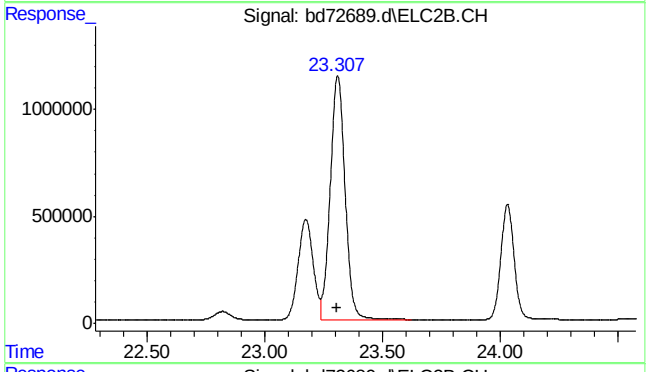
#18 2,3,4-trifluorotoluene #2

R.T.: 21.238 min
Delta R.T.: 0.002 min
Response: 9231850
Conc: 46.90 ppb



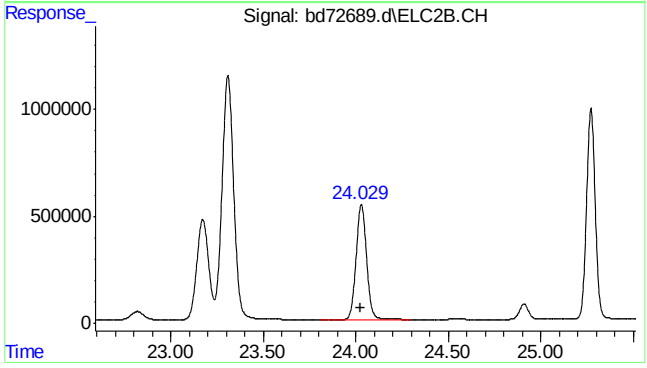
#19 ethylbenzene #2

R.T.: 23.173 min
Delta R.T.: 0.000 min
Response: 20751208
Conc: 50.00 ppb



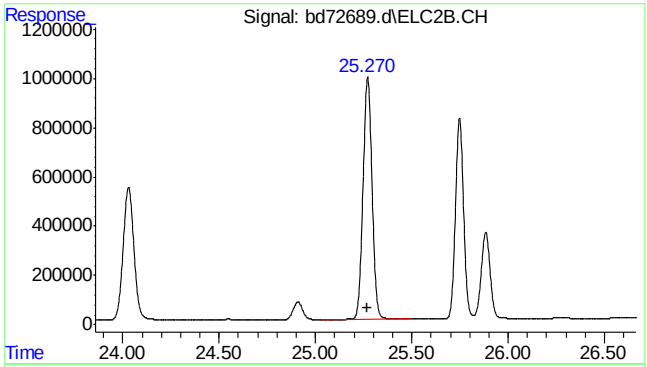
#20 m,p-xylene #2

R.T.: 23.309 min
Delta R.T.: 0.002 min
Response: 49993765
Conc: 100.30 ppb



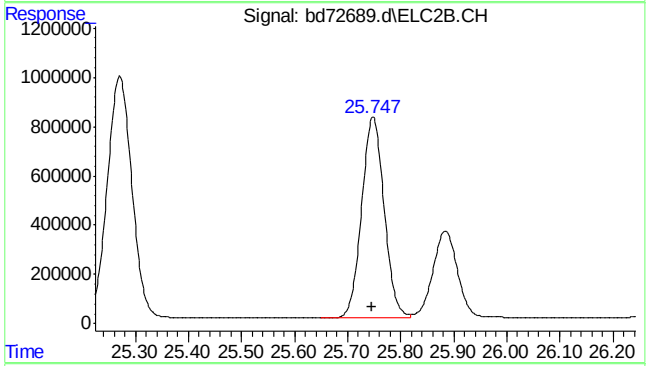
#21 o-xylene #2

R.T.: 24.030 min
Delta R.T.: 0.002 min
Response: 21057643
Conc: 48.43 ppb



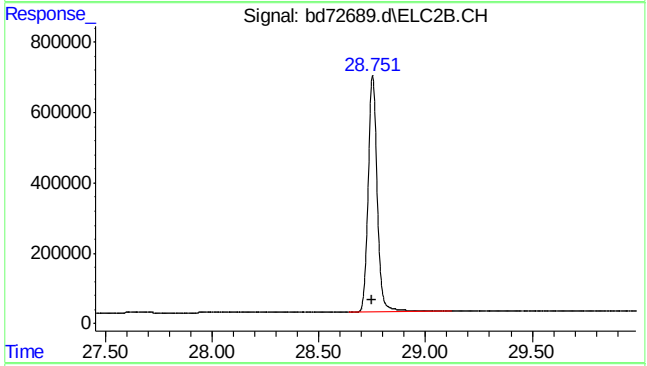
#22 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 32008982
Conc: 47.70 ppb



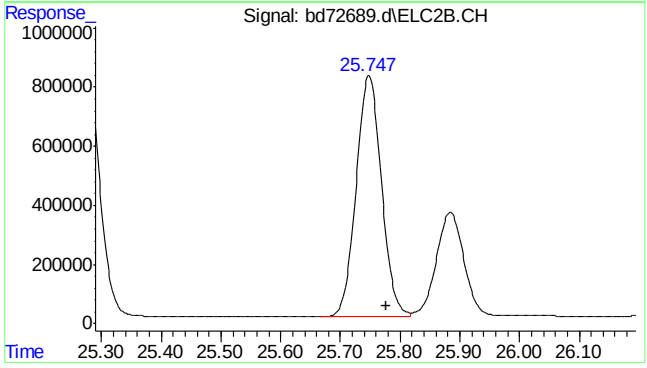
#23 1,2,4-trimethylbenzene #2

R.T.: 25.748 min
Delta R.T.: 0.002 min
Response: 24040884
Conc: 48.88 ppb



#24 naphthalene #2

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 19947215
Conc: 55.26 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 23978907
Conc: 48.77 ppb m

7.5.10

7

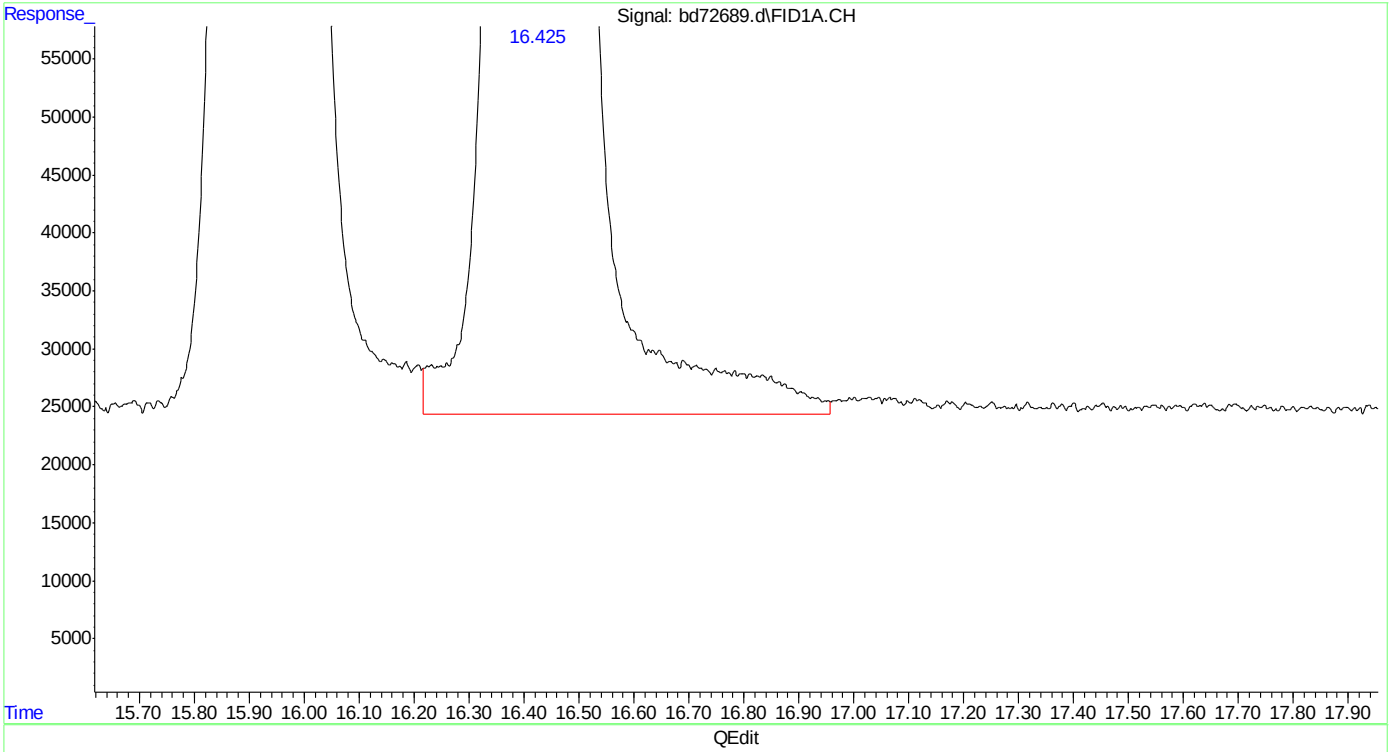
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
16.426min 54.445 ppb
response 37044915

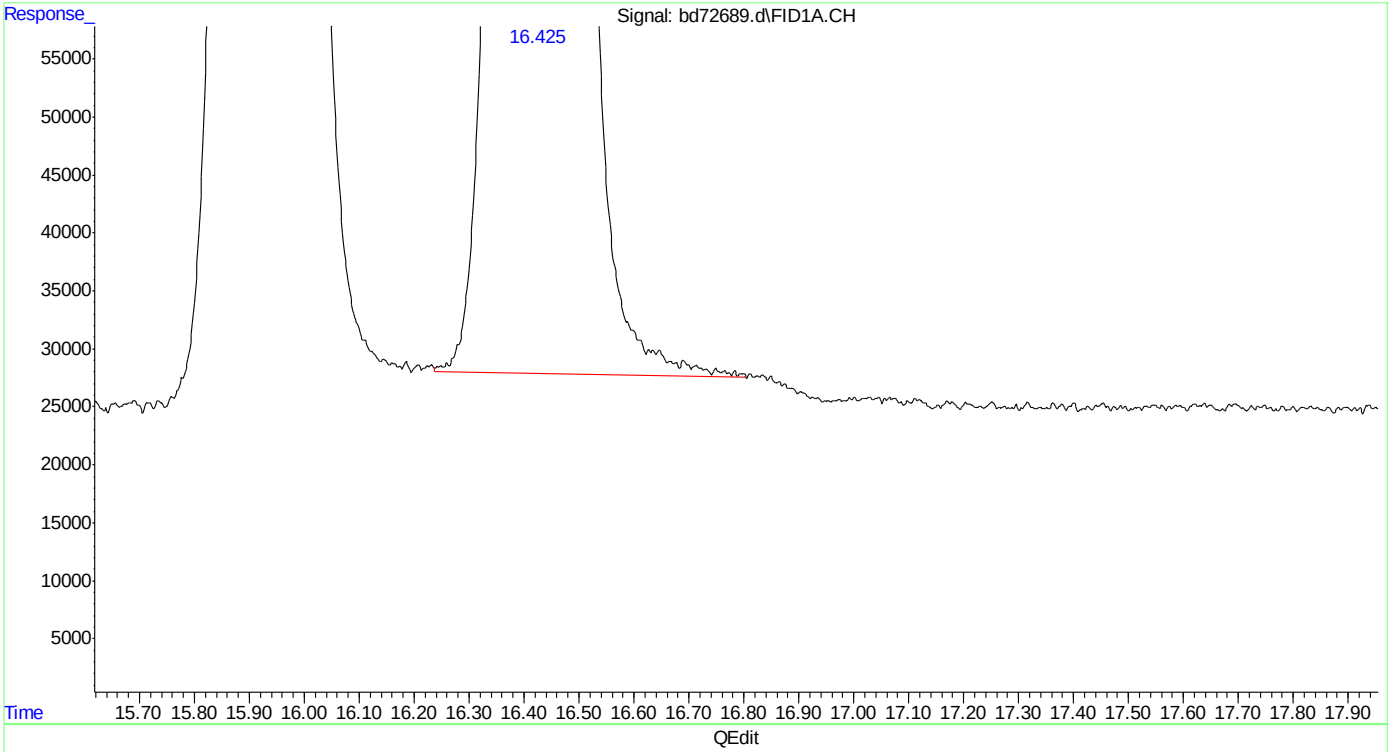
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:50:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
16.425min 52.341 ppb m
response 35613038

(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:50:30 2016

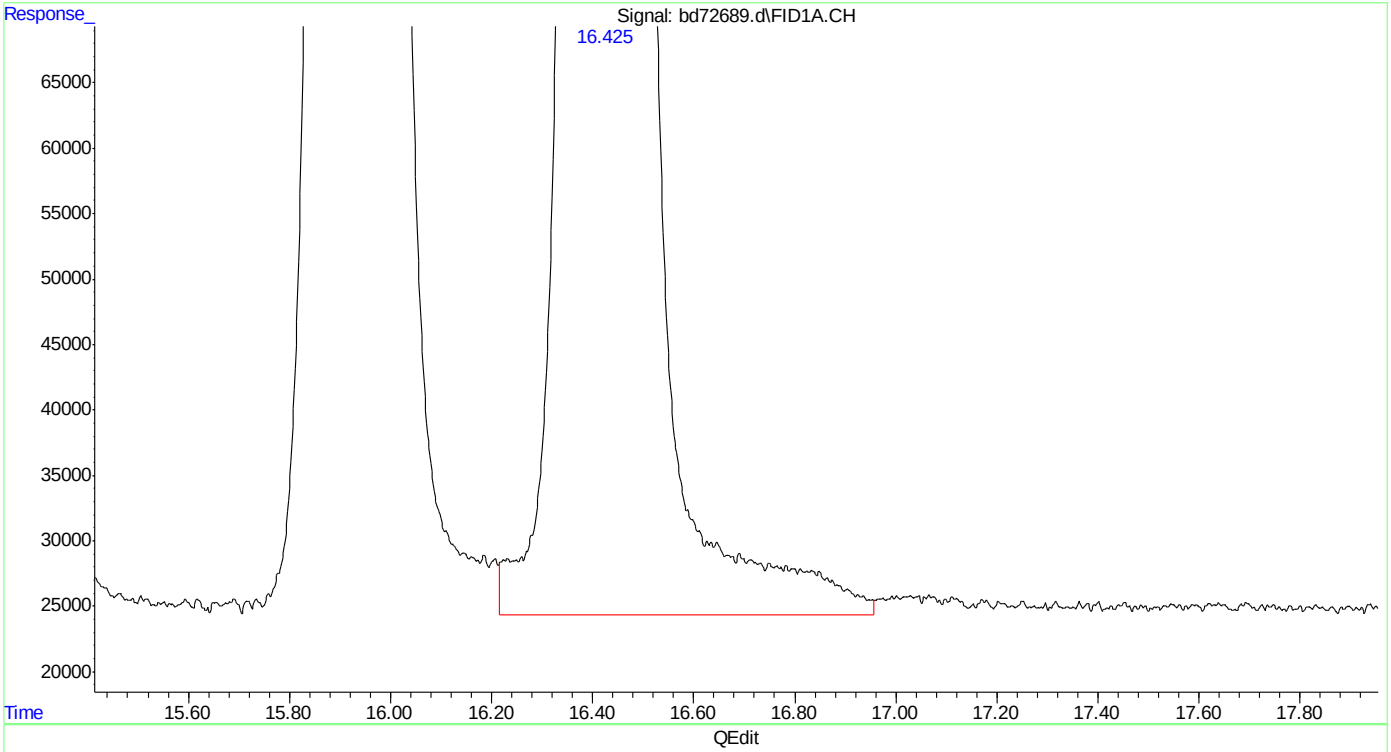
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 13:13:33
Operator  : tonyf
Sample    : icv3752-50
Misc      : gc25978,gbd3572,,,,5,1
ALS Vial  : 10 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(4) fluorobenzene (s)

16.426min 54.445 ppb

response 37044915

(+) = Expected Retention Time

bd160219vph.M Fri Feb 19 13:51:22 2016

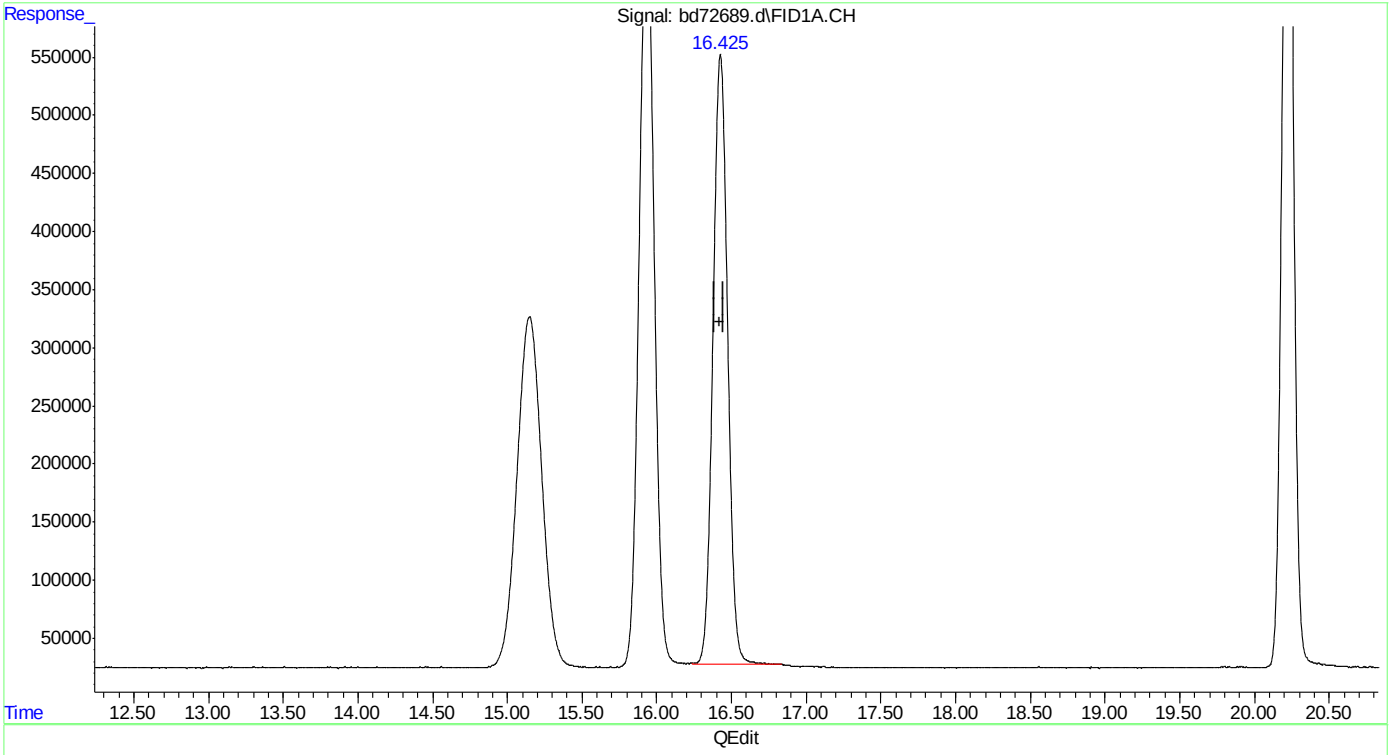
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
16.425min 52.281 ppb m
response 35571927

(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:51:36 2016

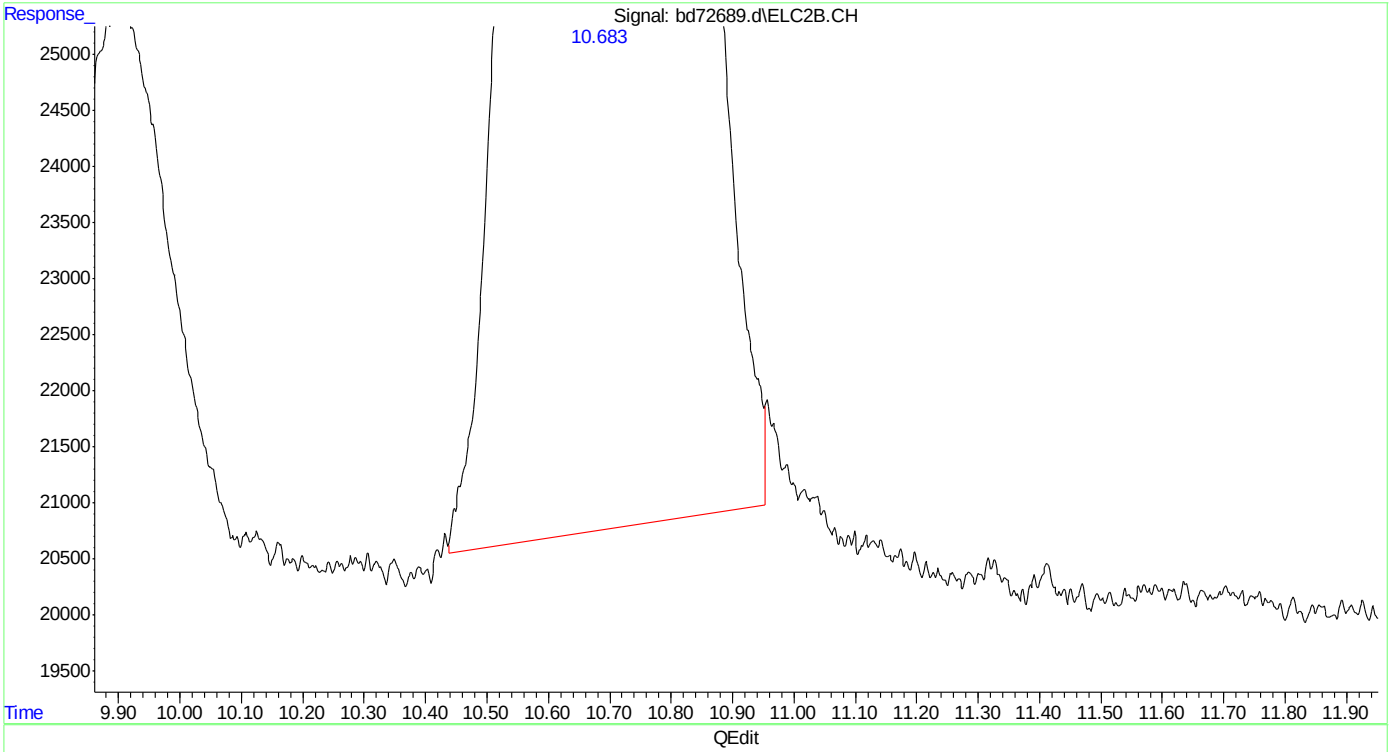
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.684min 52.354 ppb
response 8068180

(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:51:50 2016

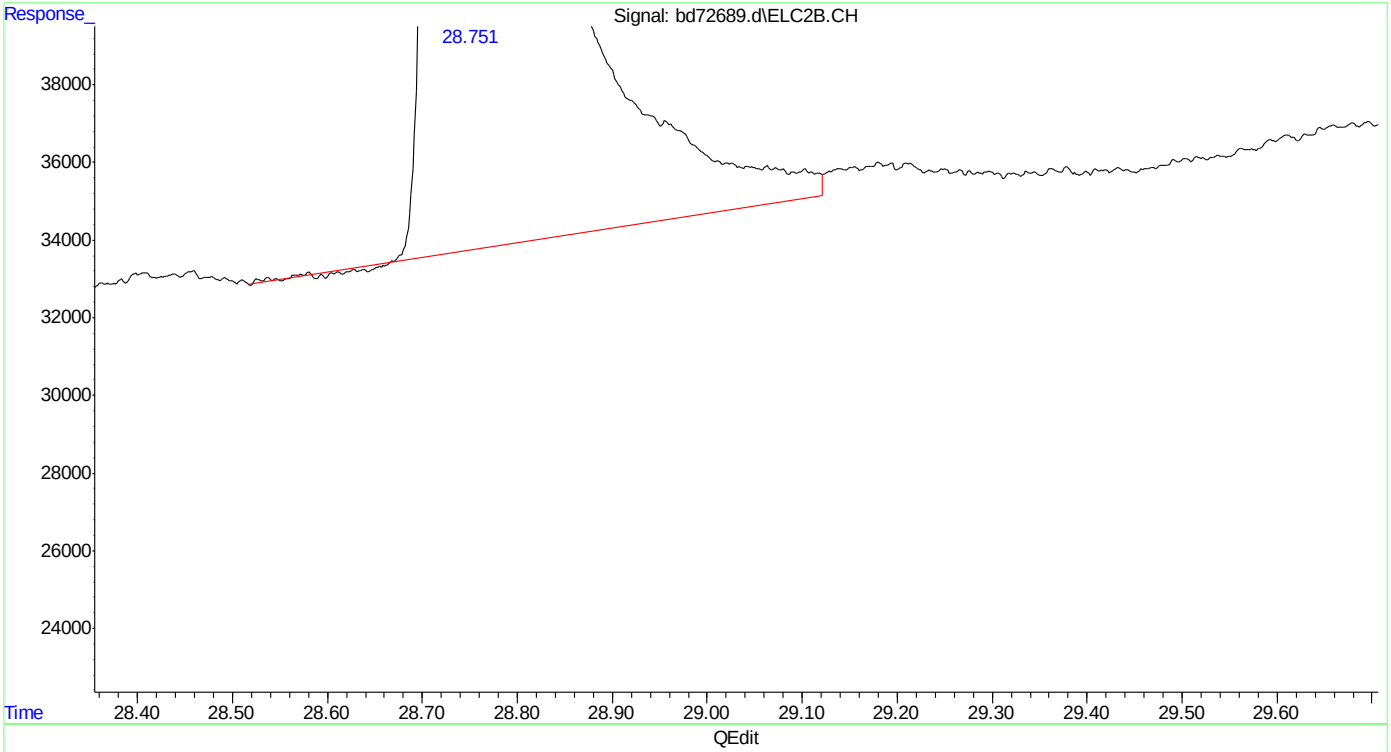
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.752min 55.237 ppb
response 19938925

(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:52:02 2016

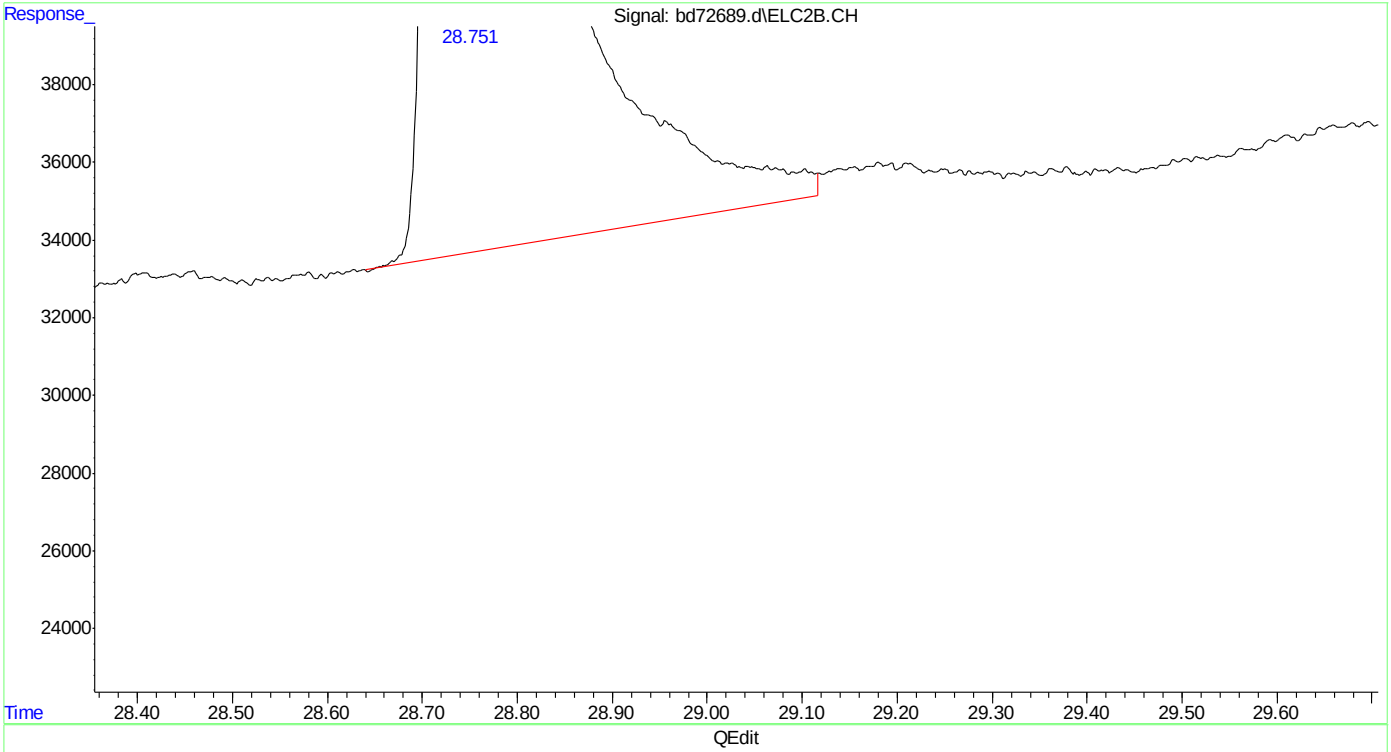
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.751min 55.260 ppb m
response 19947215

(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:52:07 2016

SGS ACCUTEST MC45897

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:02:20 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.427	35629310	52.365 ppb	m
Spiked Amount 50.000		Recovery	= 104.73%	
6) s 2,3,4-trifluorotoluene	21.243	28170046	54.069 ppb	m
Spiked Amount 50.000		Recovery	= 108.14%	
16) s fluorobenzene #2	16.427	15074886	44.435 ppb	
Spiked Amount 50.000		Recovery	= 88.87%	
18) s 2,3,4-trifluorotoluen...	21.243	8571363	43.541 ppb	m
Spiked Amount 50.000		Recovery	= 87.08%	
Target Compounds				
1) h rt5.5-7	7.470	28029209	45.447 ppb	m
2) h rt7/10	9.920	33260112	53.928 ppb	m
3) h rt10/13	15.200	30462655	49.393 ppb	m
8) h rt20/25	22.840	33356622	41.684 ppb	m
10) h decane	24.930	32572979	40.705 ppb	m
11) h butylcyclohexane	25.908	37502086	46.865 ppb	m
14) mtbe #2	10.680f	7681347	49.844 ppb	m
15) benzene #2	15.934	22736887	47.016 ppb	
17) toluene #2	20.226	21259285	46.959 ppb	
19) ethylbenzene #2	23.179	18830351	45.373 ppb	
20) m,p-xylene #2	23.314	45577507	91.440 ppb	m
21) o-xylene #2	24.036	19359138	44.526 ppb	m
22) t 1,3,5-trimethylbenzen...	25.278	27901839	41.580 ppb	
23) 1,2,4-trimethylbenzen...	25.755	21906898	44.537 ppb	m
24) naphthalene #2	28.764	18984357	52.620 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21863153	44.469 ppb	m

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

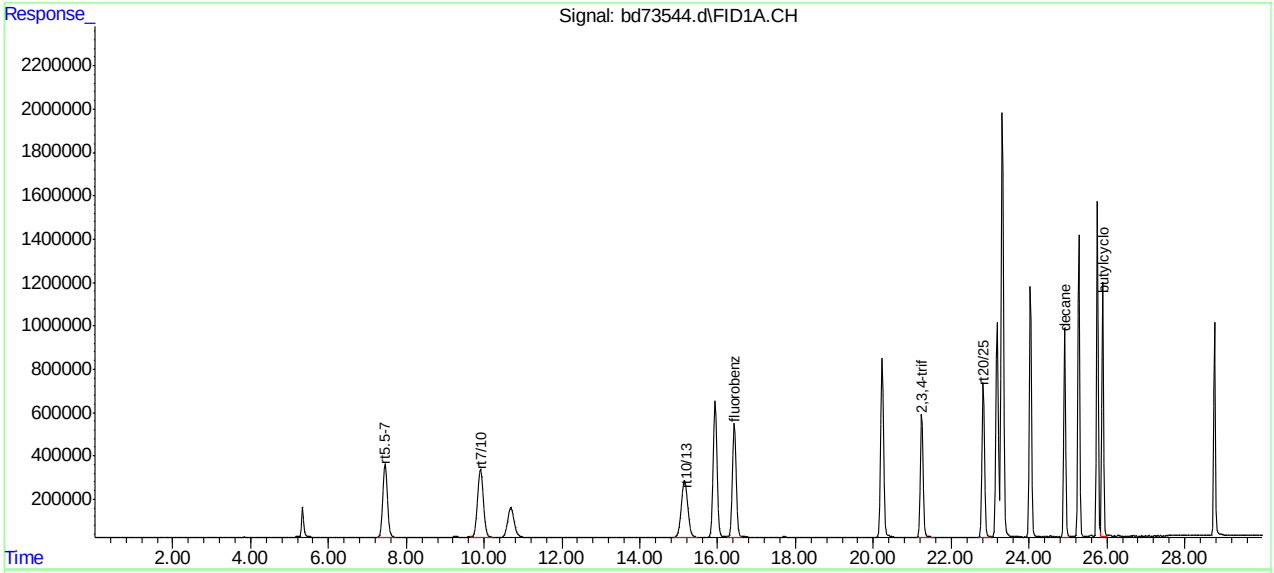
7.5.11
7

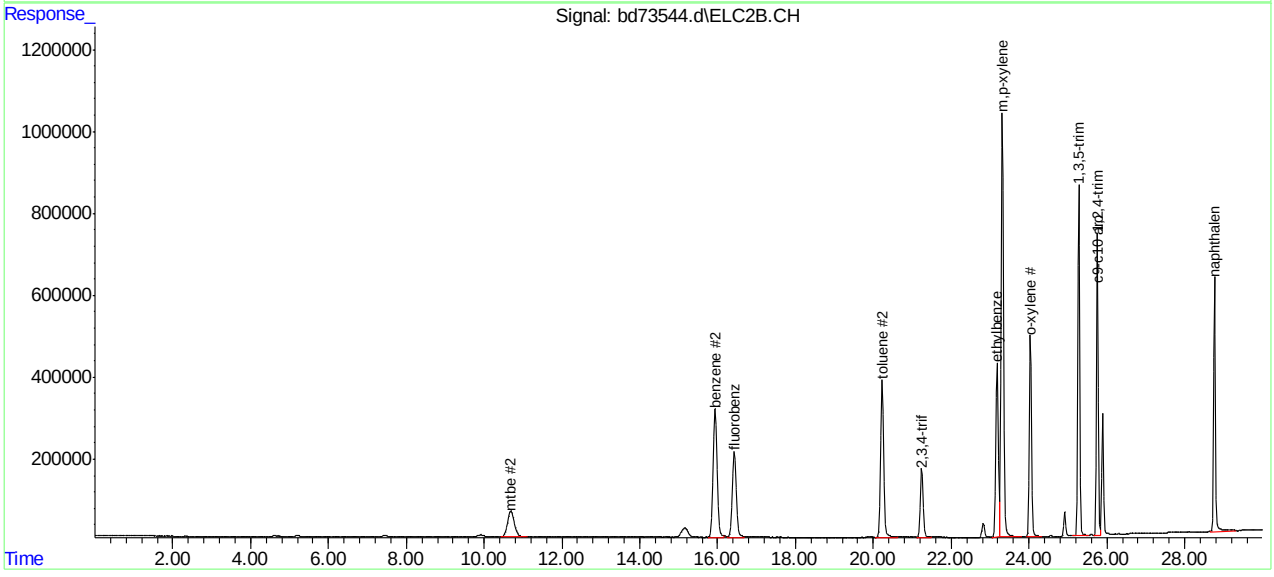
Quantitation Report (QT Reviewed)

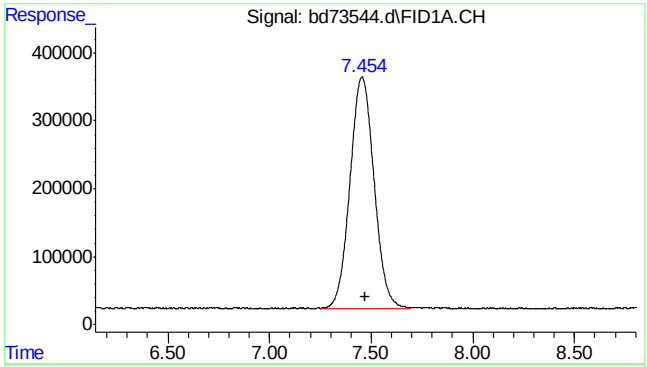
Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 10:02:20 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

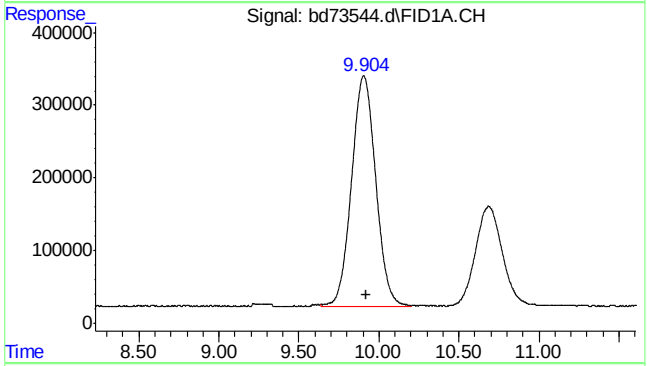






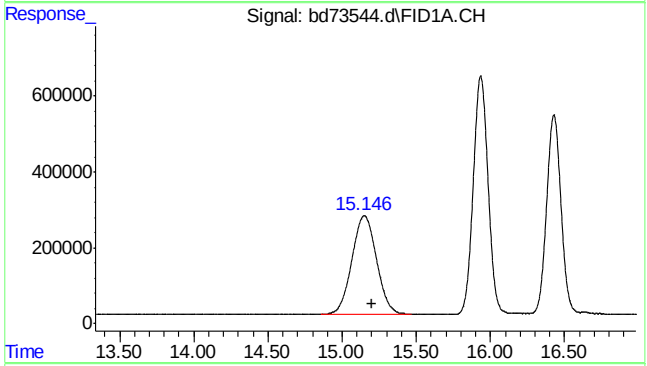
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 28029209
Conc: 45.45 ppb m



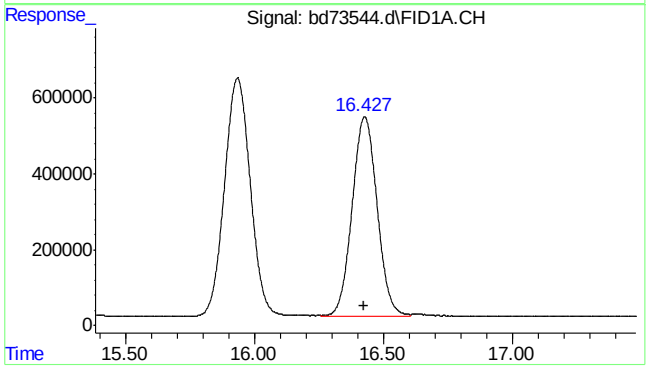
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 33260112
Conc: 53.93 ppb m



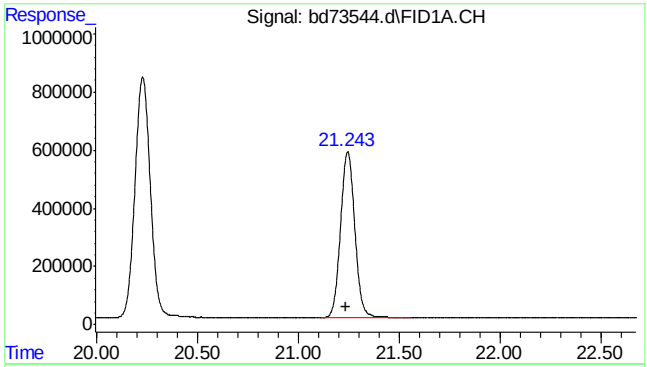
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 30462655
Conc: 49.39 ppb m



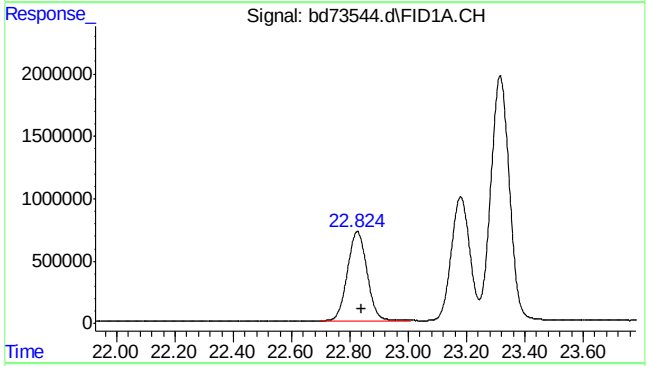
#4 fluorobenzene

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 35629310
Conc: 52.36 ppb m



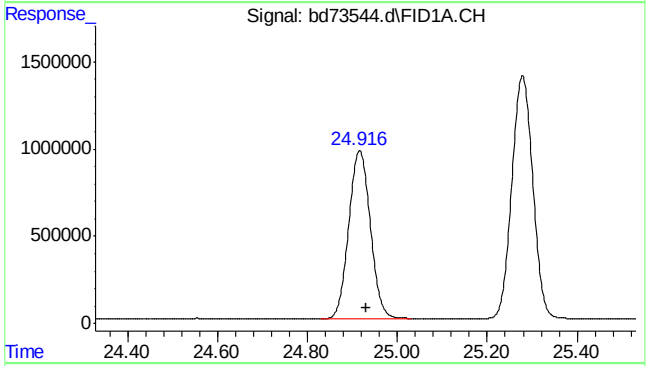
#6 2,3,4-trifluorotoluene

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 28170046
Conc: 54.07 ppb m



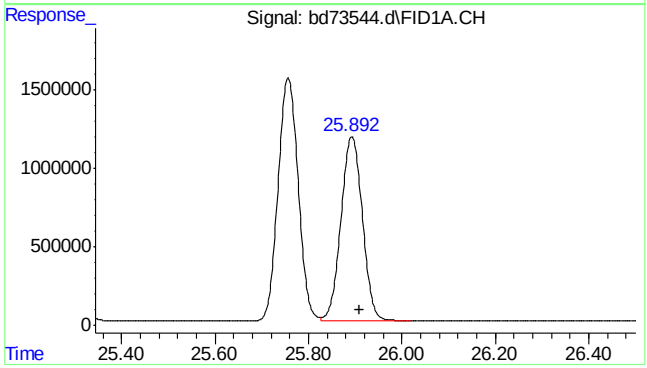
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 33356622
Conc: 41.68 ppb m



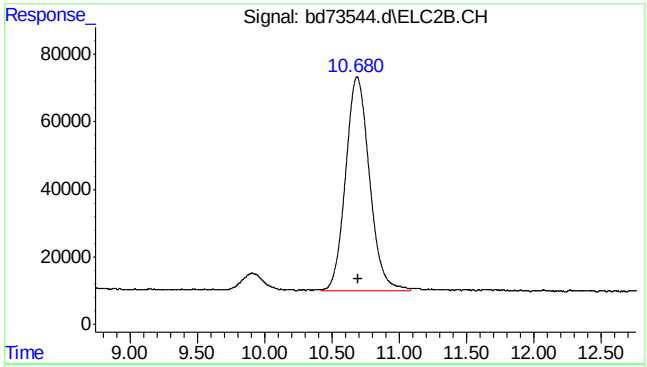
#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 32572979
Conc: 40.70 ppb m



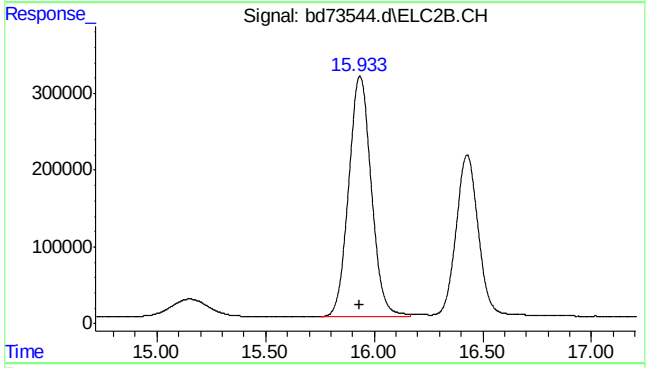
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 37502086
Conc: 46.86 ppb m



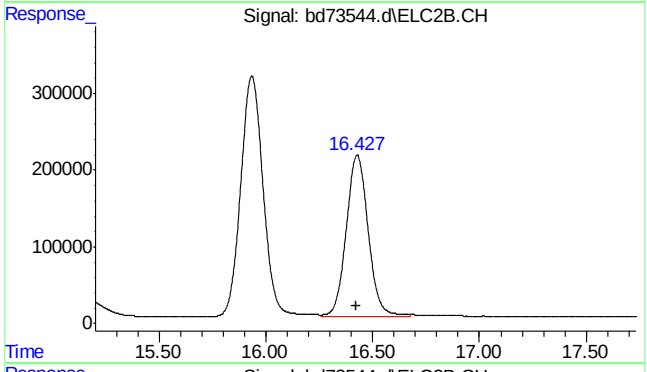
#14 mtbe #2

R.T.: 10.680 min
Delta R.T.: -0.016 min
Response: 7681347
Conc: 49.84 ppb m



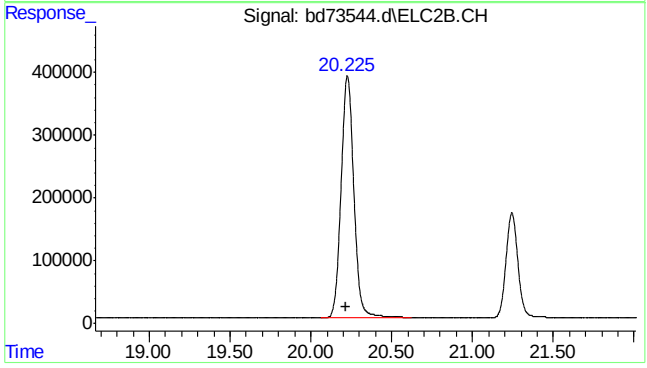
#15 benzene #2

R.T.: 15.934 min
Delta R.T.: 0.002 min
Response: 22736887
Conc: 47.02 ppb



#16 fluorobenzene #2

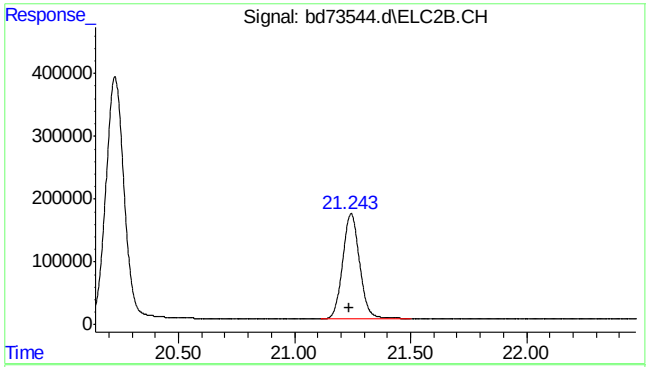
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 15074886
Conc: 44.44 ppb



#17 toluene #2

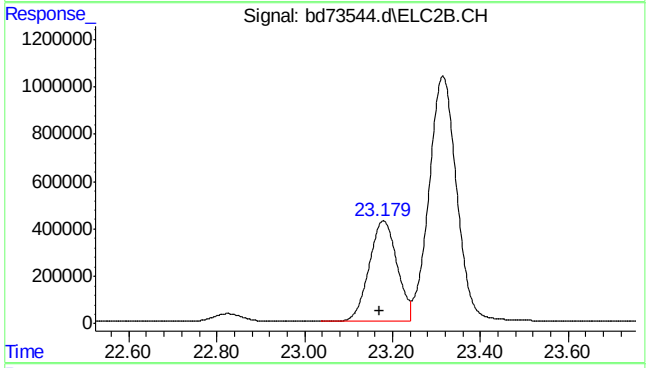
R.T.: 20.226 min
Delta R.T.: 0.005 min
Response: 21259285
Conc: 46.96 ppb

SGS ACCUTEST MC45897



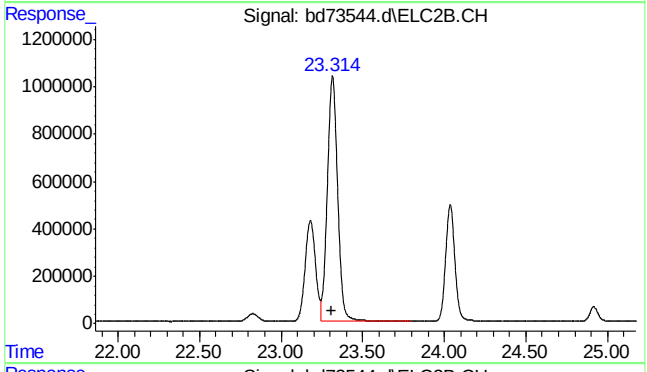
#18 2,3,4-trifluorotoluene #2

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 8571363
Conc: 43.54 ppb m



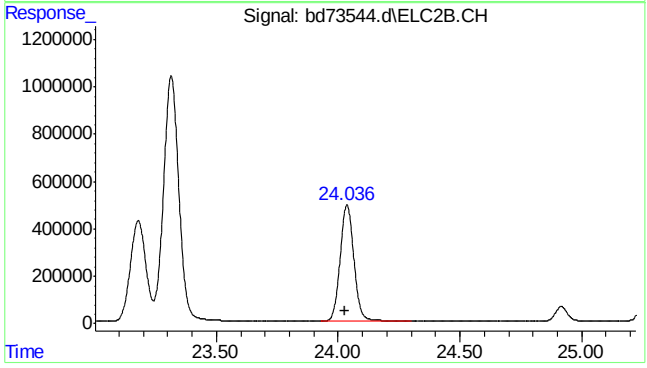
#19 ethylbenzene #2

R.T.: 23.179 min
Delta R.T.: 0.007 min
Response: 18830351
Conc: 45.37 ppb



#20 m,p-xylene #2

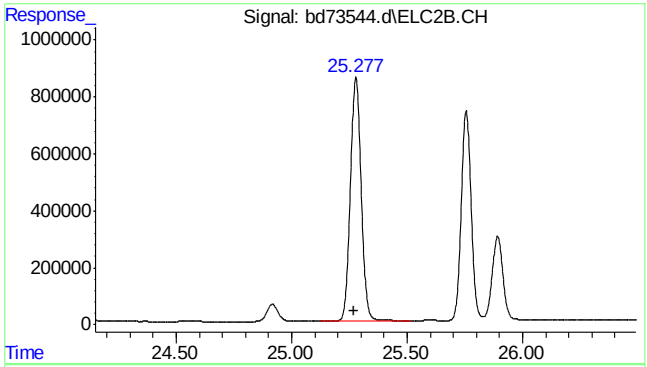
R.T.: 23.314 min
Delta R.T.: 0.007 min
Response: 45577507
Conc: 91.44 ppb m



#21 o-xylene #2

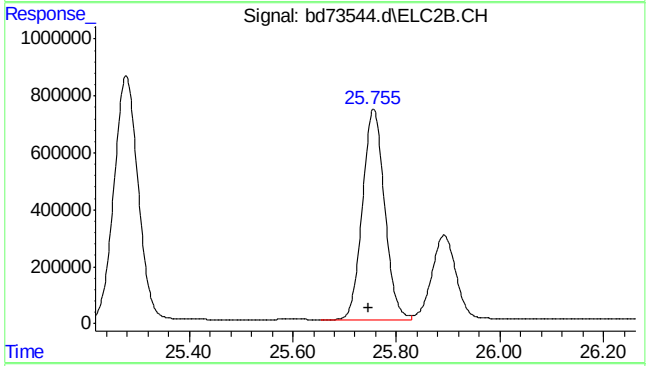
R.T.: 24.036 min
Delta R.T.: 0.008 min
Response: 19359138
Conc: 44.53 ppb m

SGS ACCUTEST MC45897



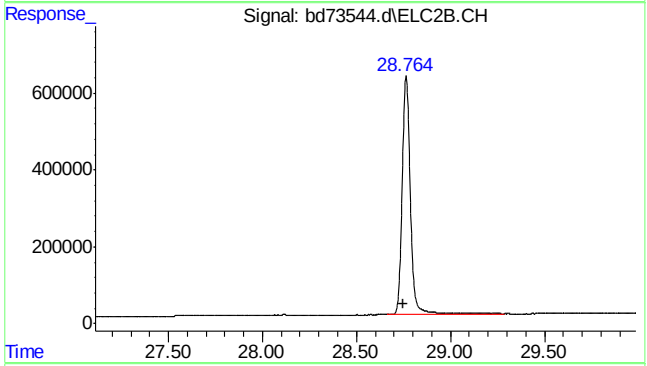
#22 1,3,5-trimethylbenzene #2

R.T.: 25.278 min
Delta R.T.: 0.010 min
Response: 27901839
Conc: 41.58 ppb



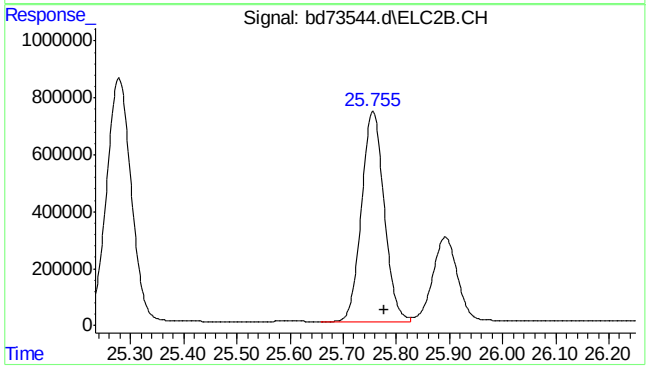
#23 1,2,4-trimethylbenzene #2

R.T.: 25.755 min
Delta R.T.: 0.009 min
Response: 21906898
Conc: 44.54 ppb m



#24 naphthalene #2

R.T.: 28.764 min
Delta R.T.: 0.014 min
Response: 18984357
Conc: 52.62 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21863153
Conc: 44.47 ppb m

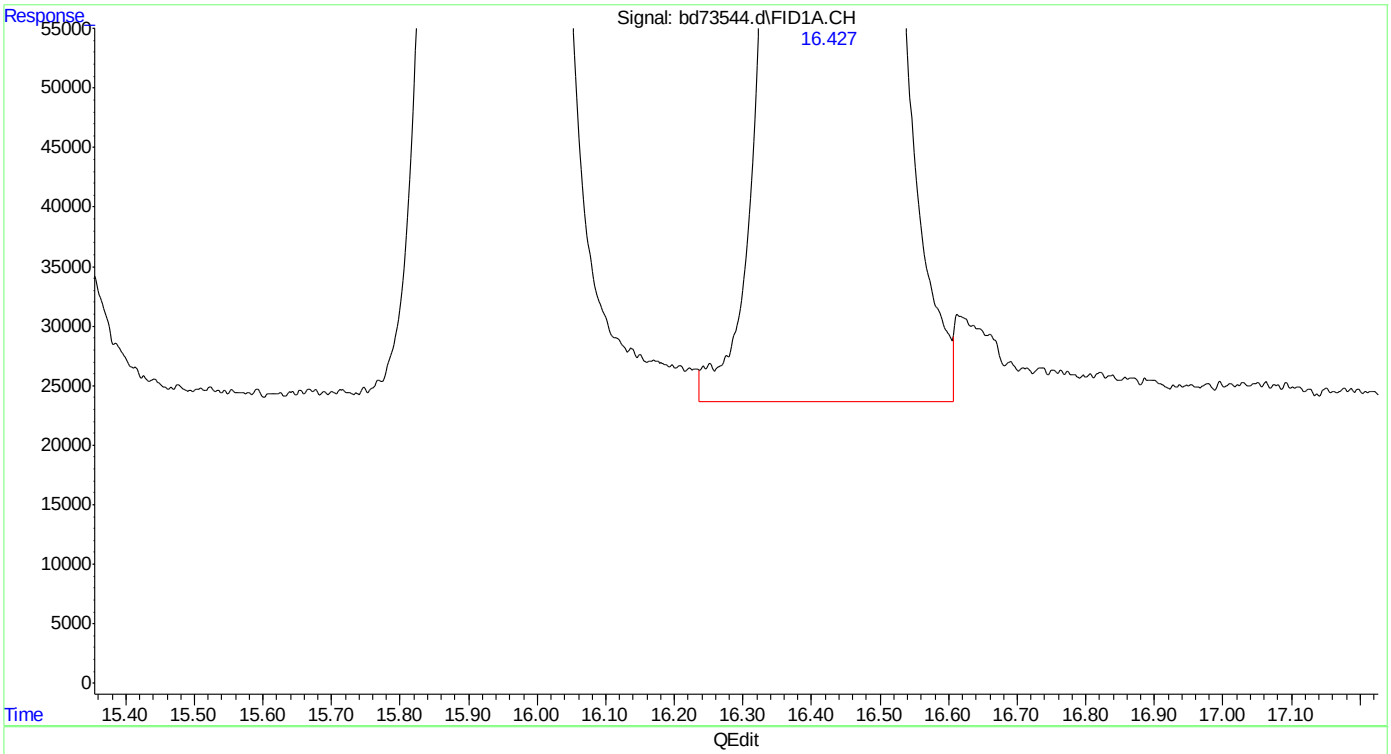
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
16.427min 52.594 ppb
response 35785359

(+) = Expected Retention Time
bd160513vph.M Fri May 13 09:58:55 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
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Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
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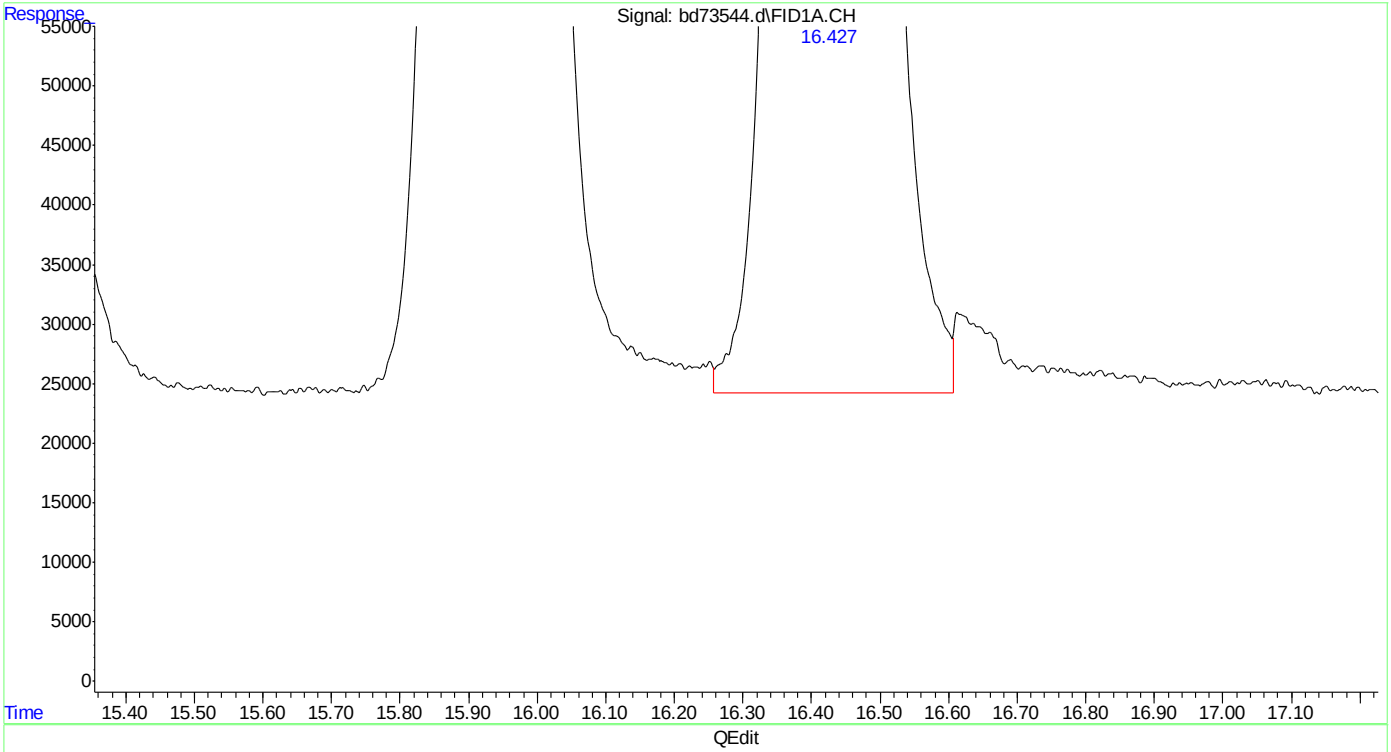
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(4) fluorobenzene (s)
16.427min 52.365 ppb m
response 35629310

(+) = Expected Retention Time
bd160513vph.M Fri May 13 09:59:06 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
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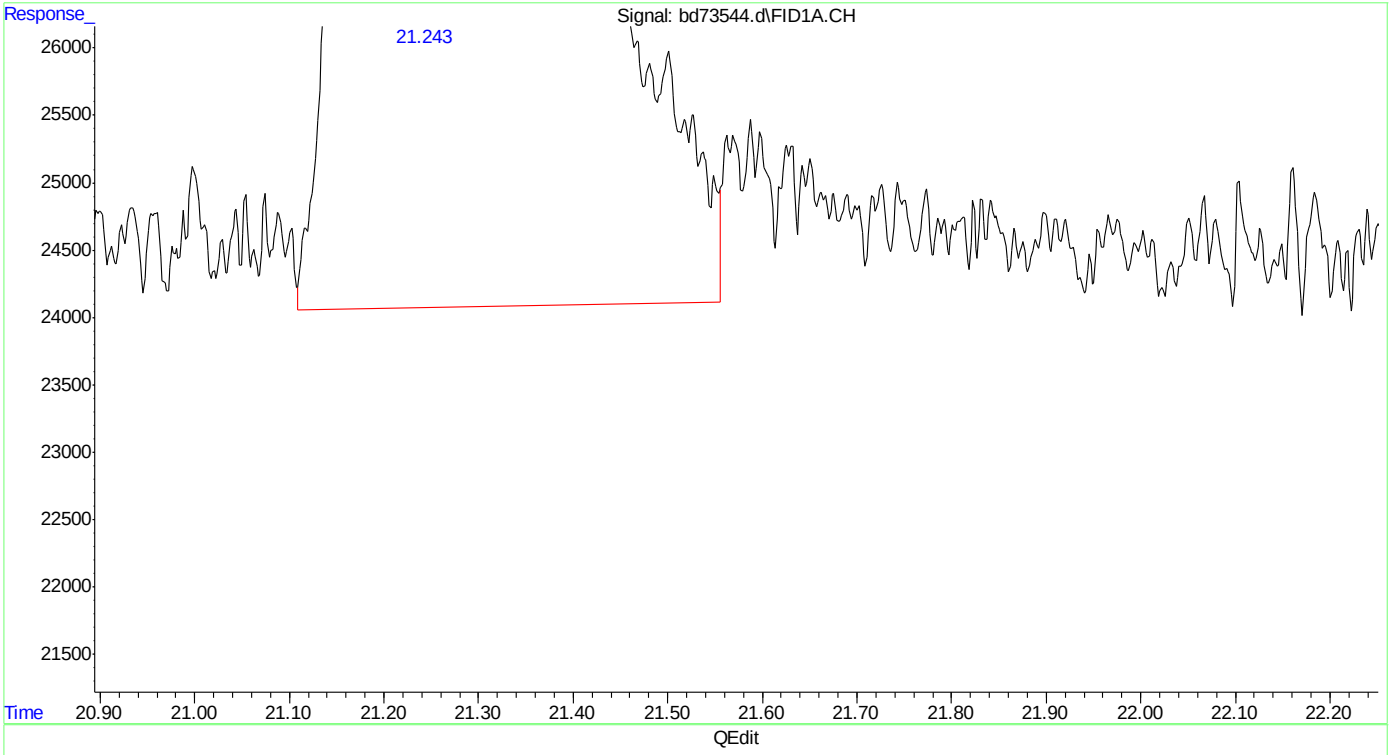
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) 2,3,4-trifluorotoluene (s)
21.244min 54.133 ppb
response 28203637

(+) = Expected Retention Time

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
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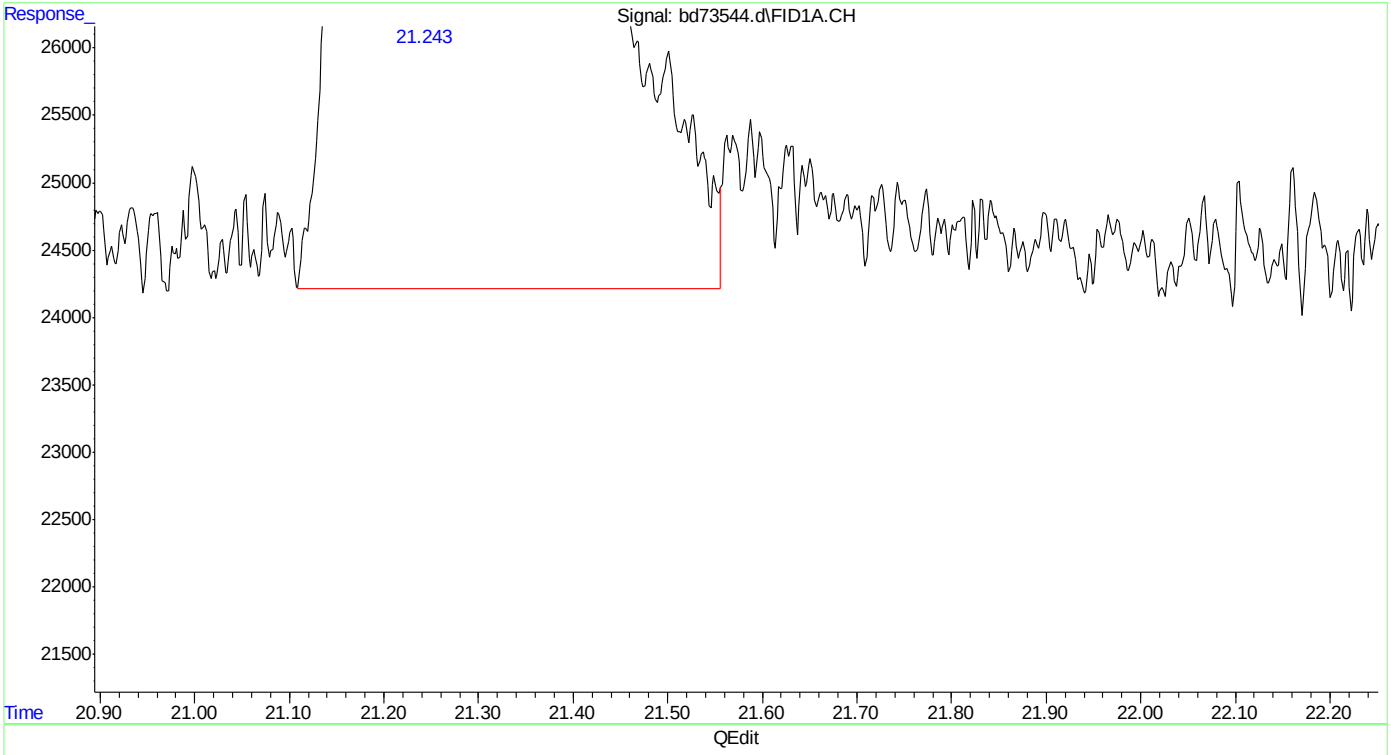
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(6) 2,3,4-trifluorotoluene (s)
21.243min 54.069 ppb m
response 28170046

(+) = Expected Retention Time

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
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Misc : gc26235,gbd3635,,,,5,1
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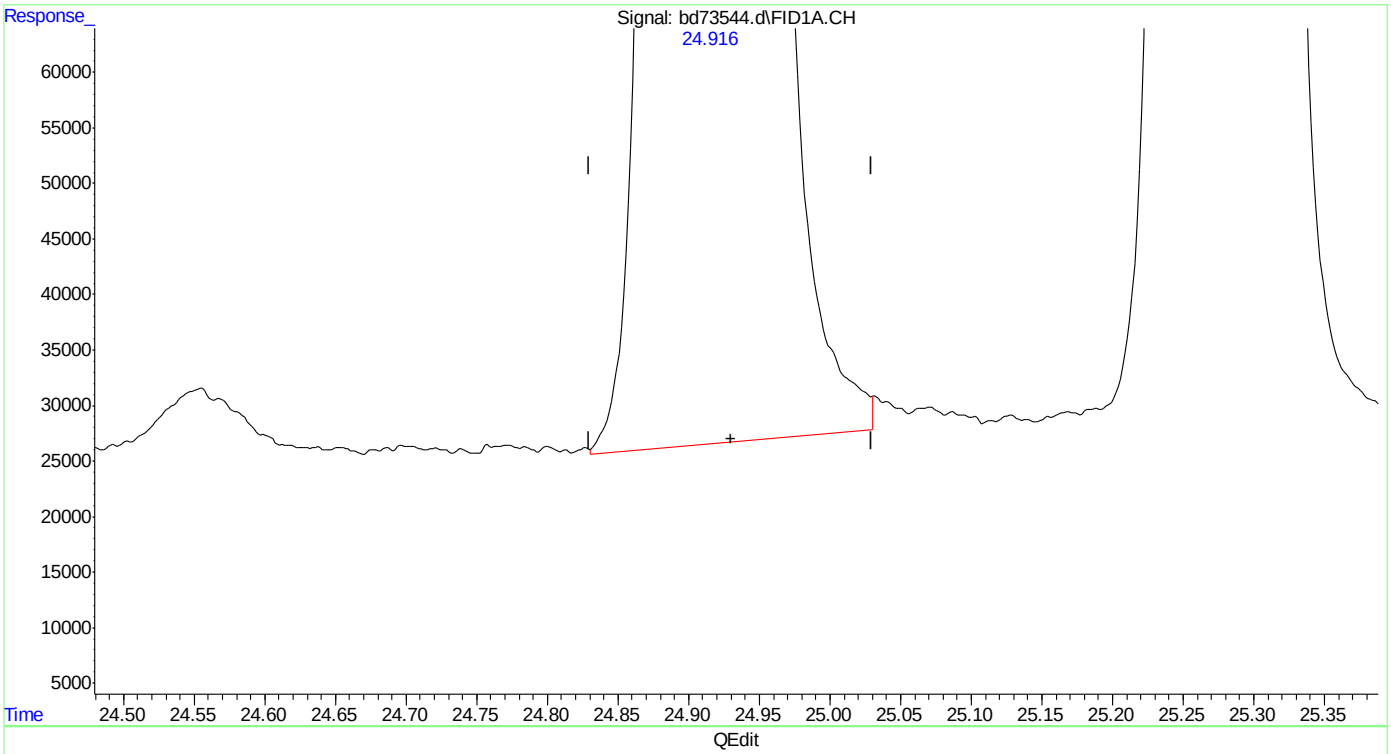
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) decane (h)
24.930min 40.556 ppb
response 32453861

(+) = Expected Retention Time

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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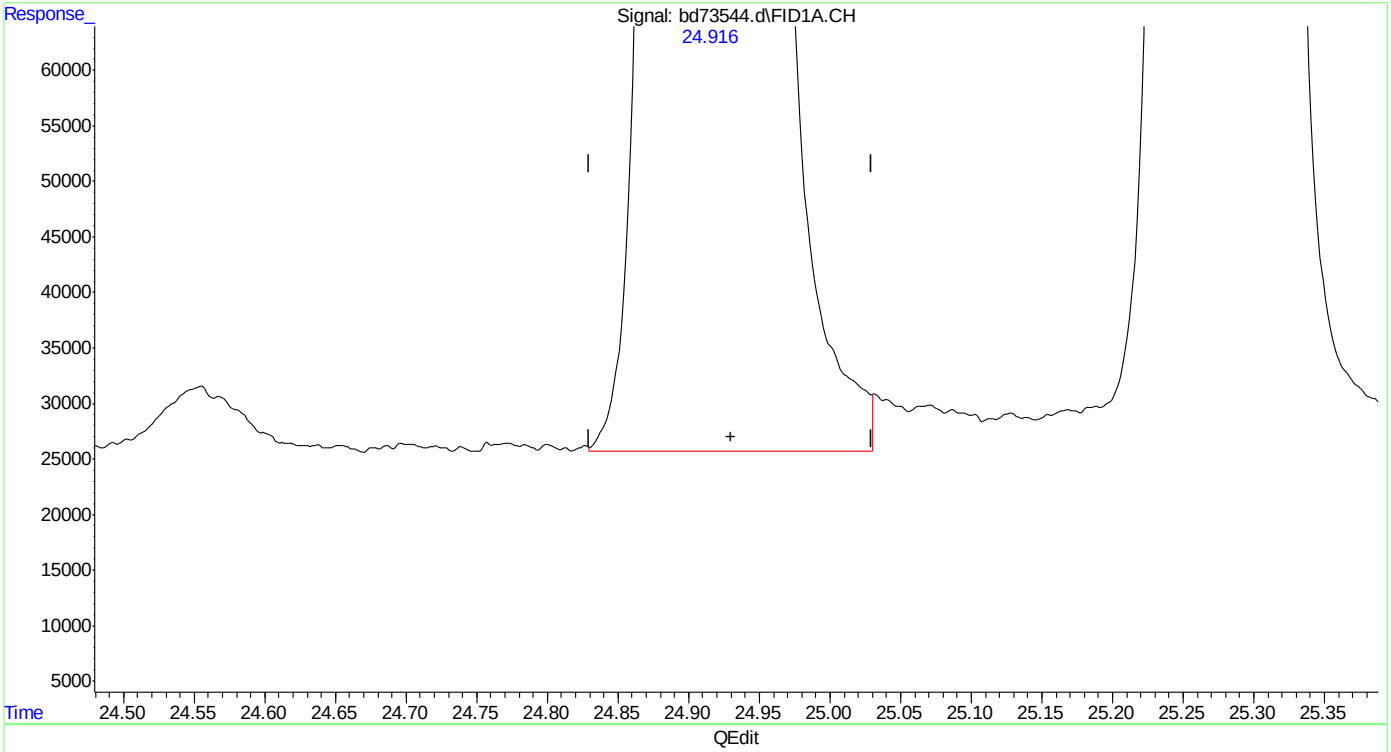
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) decane (h)
24.930min 40.705 ppb m
response 32572979

(+) = Expected Retention Time
bd160513vph.M Fri May 13 09:59:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
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Misc : gc26235,gbd3635,,,,5,1
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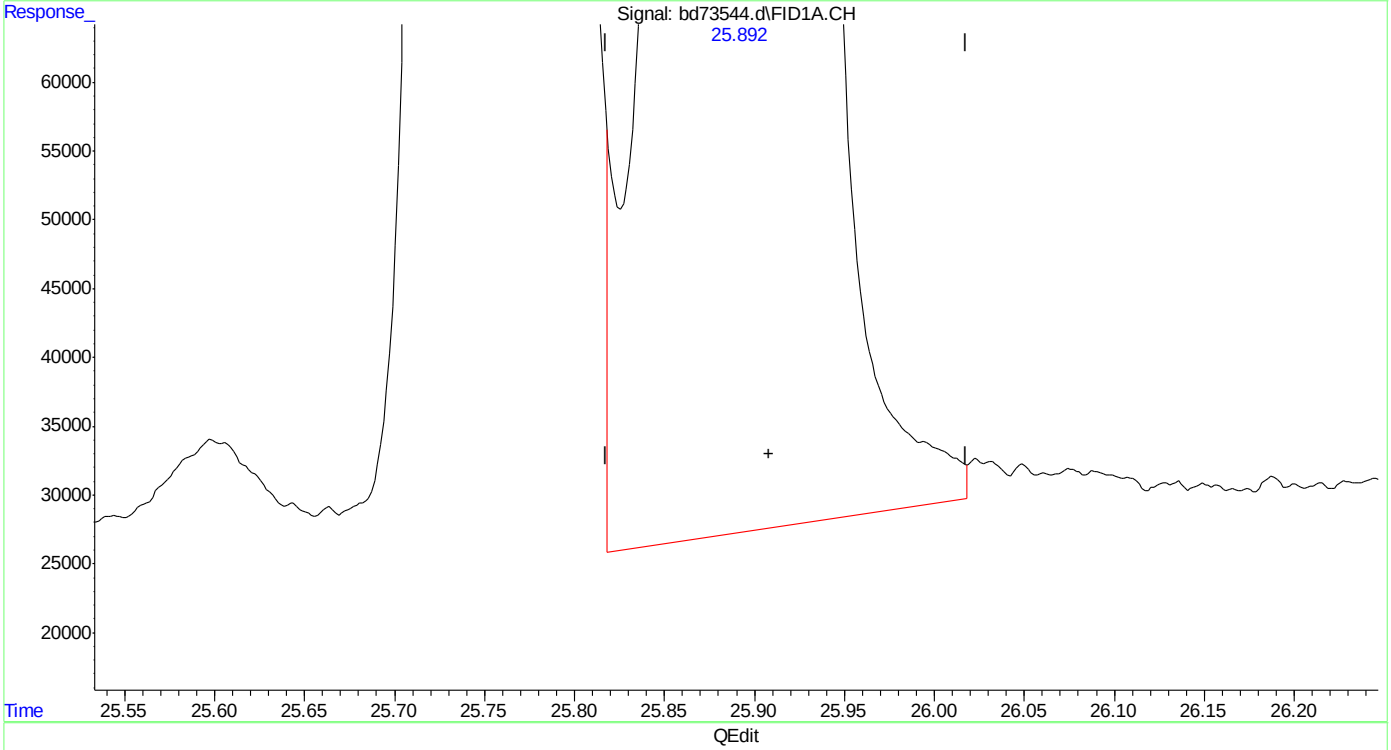
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(11) butylcyclohexane (h)
25.908min 47.373 ppb
response 37909064

(+) = Expected Retention Time

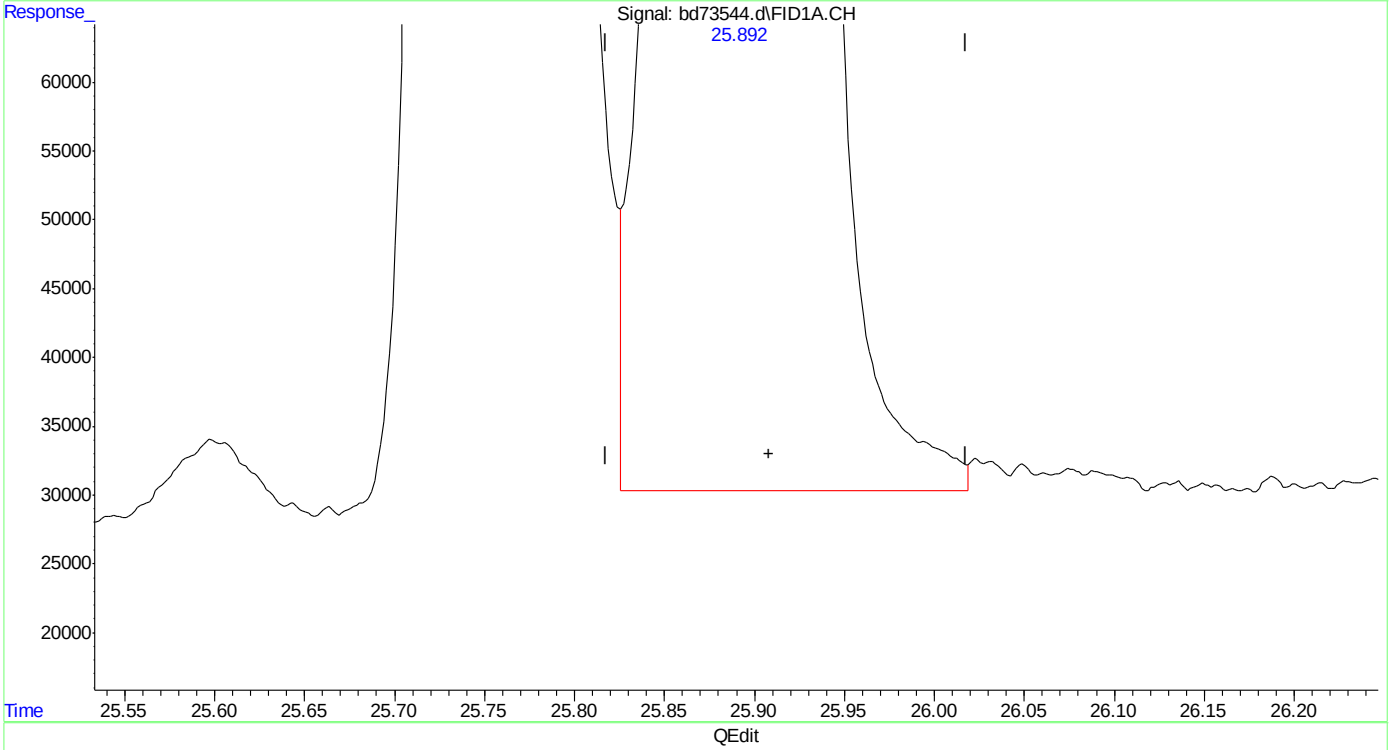
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(11) butylcyclohexane (h)
25.908min 46.865 ppb m
response 37502086

(+) = Expected Retention Time

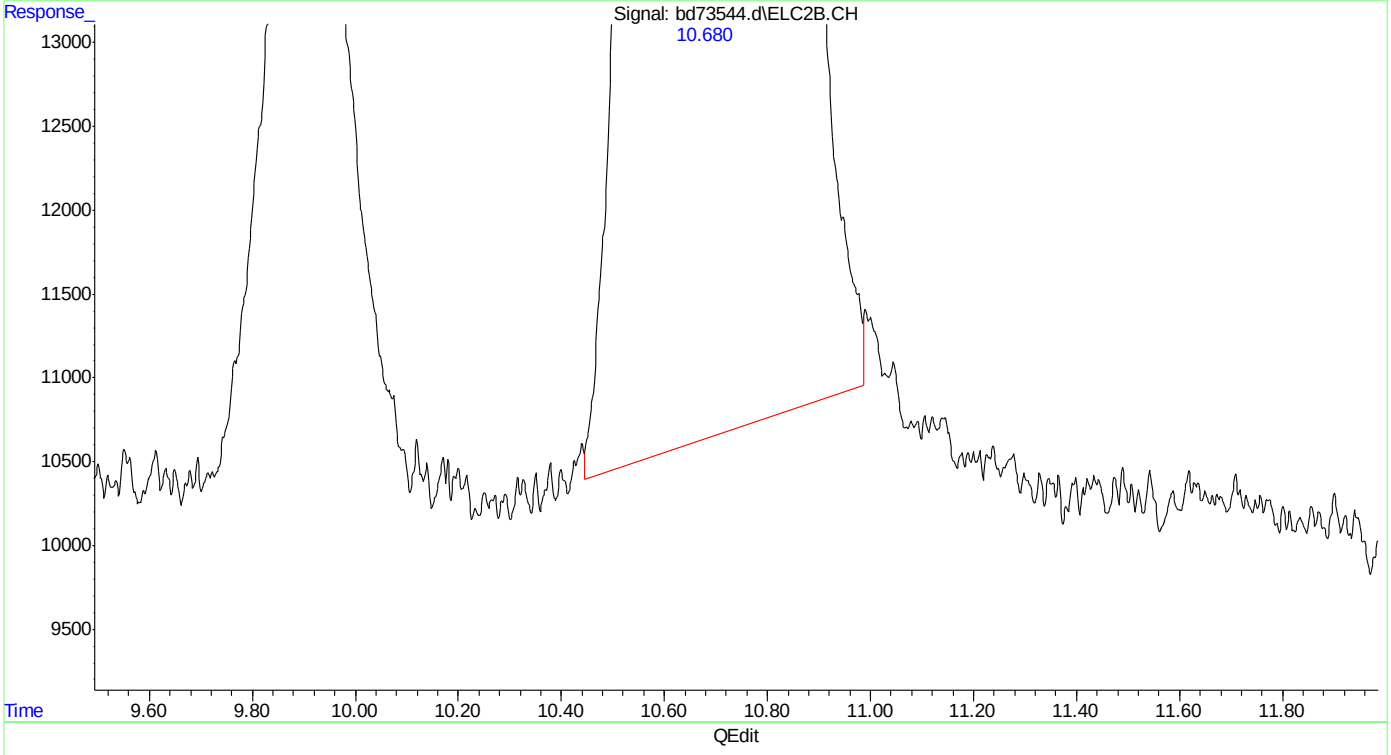
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.681min 48.533 ppb
response 7479290

(+) = Expected Retention Time
bd160513vph.M Fri May 13 10:00:17 2016

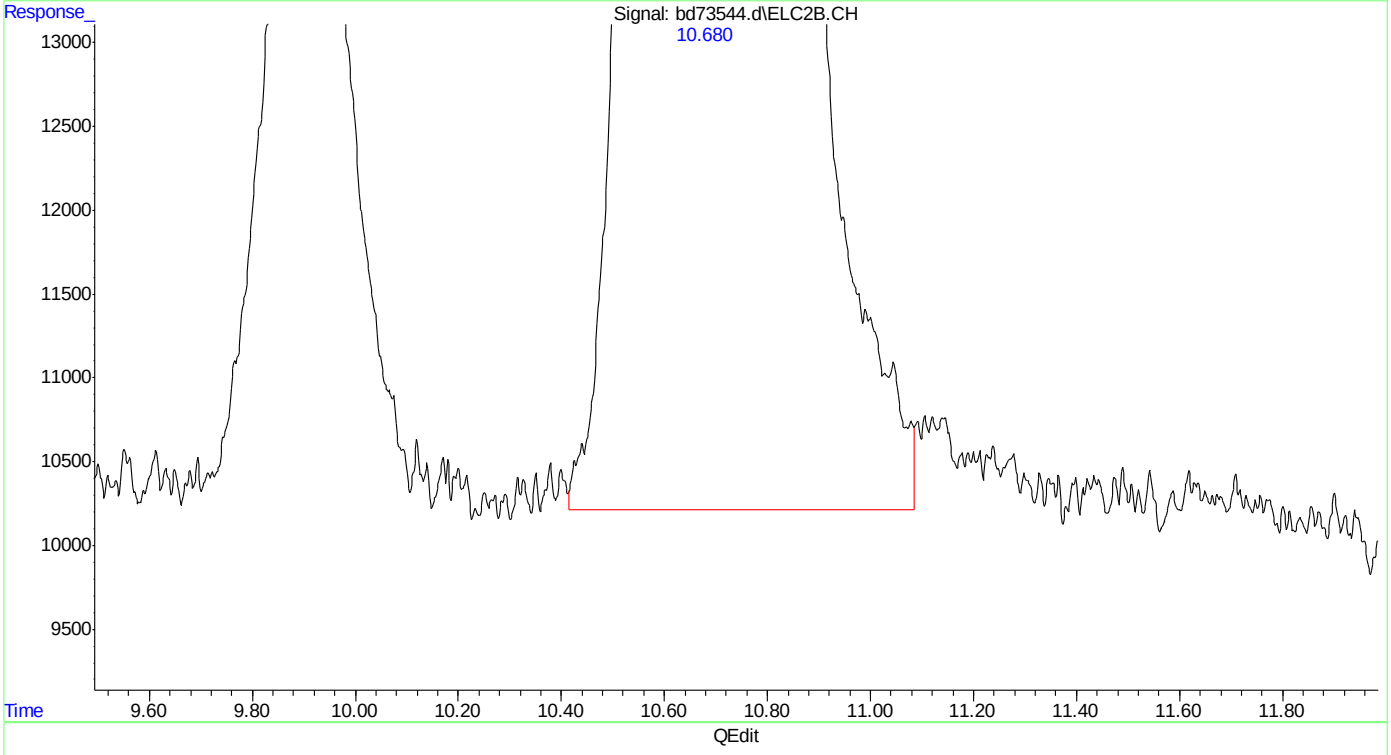
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.680min 49.844 ppb m
response 7681347

(+) = Expected Retention Time
bd160513vph.M Fri May 13 10:00:27 2016

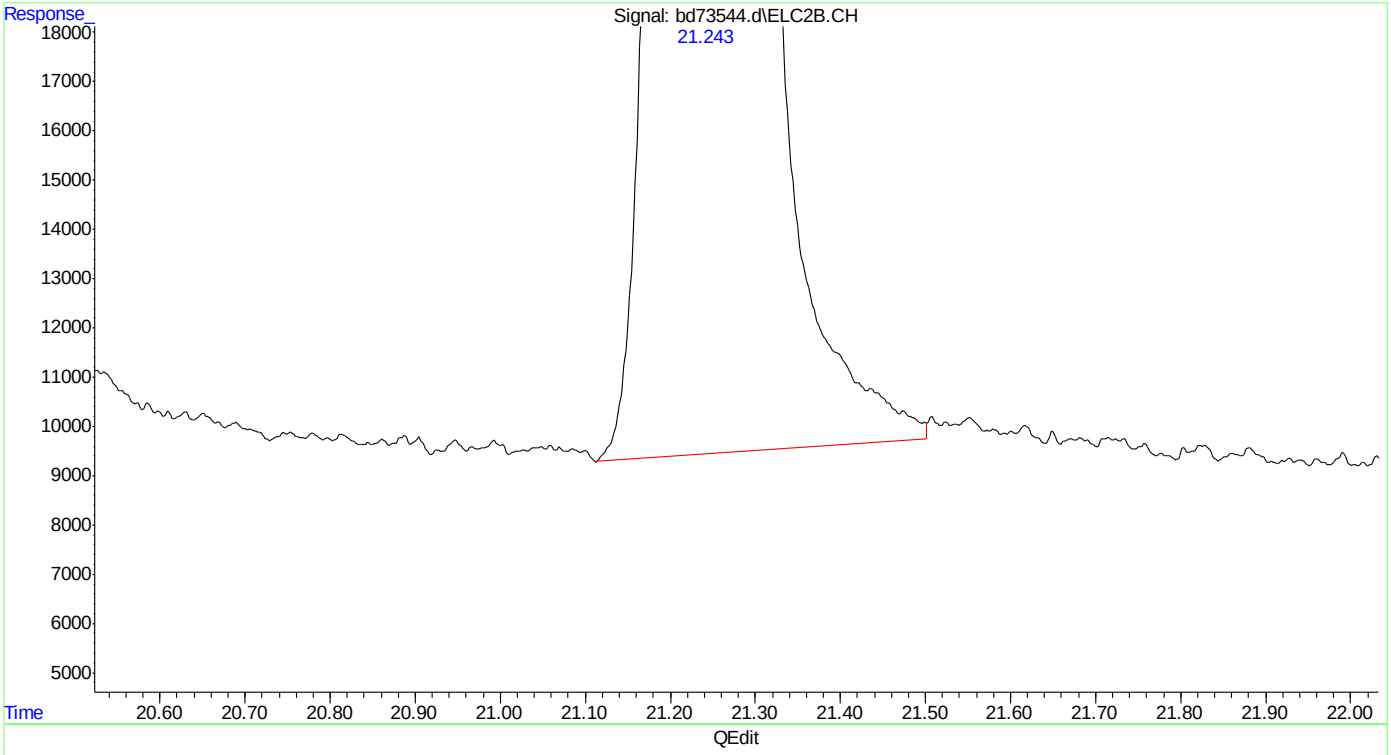
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 2,3,4-trifluorotoluene #2 (s)
21.244min 43.257 ppb
response 8515475

(+) = Expected Retention Time
bd160513vph.M Fri May 13 10:00:45 2016

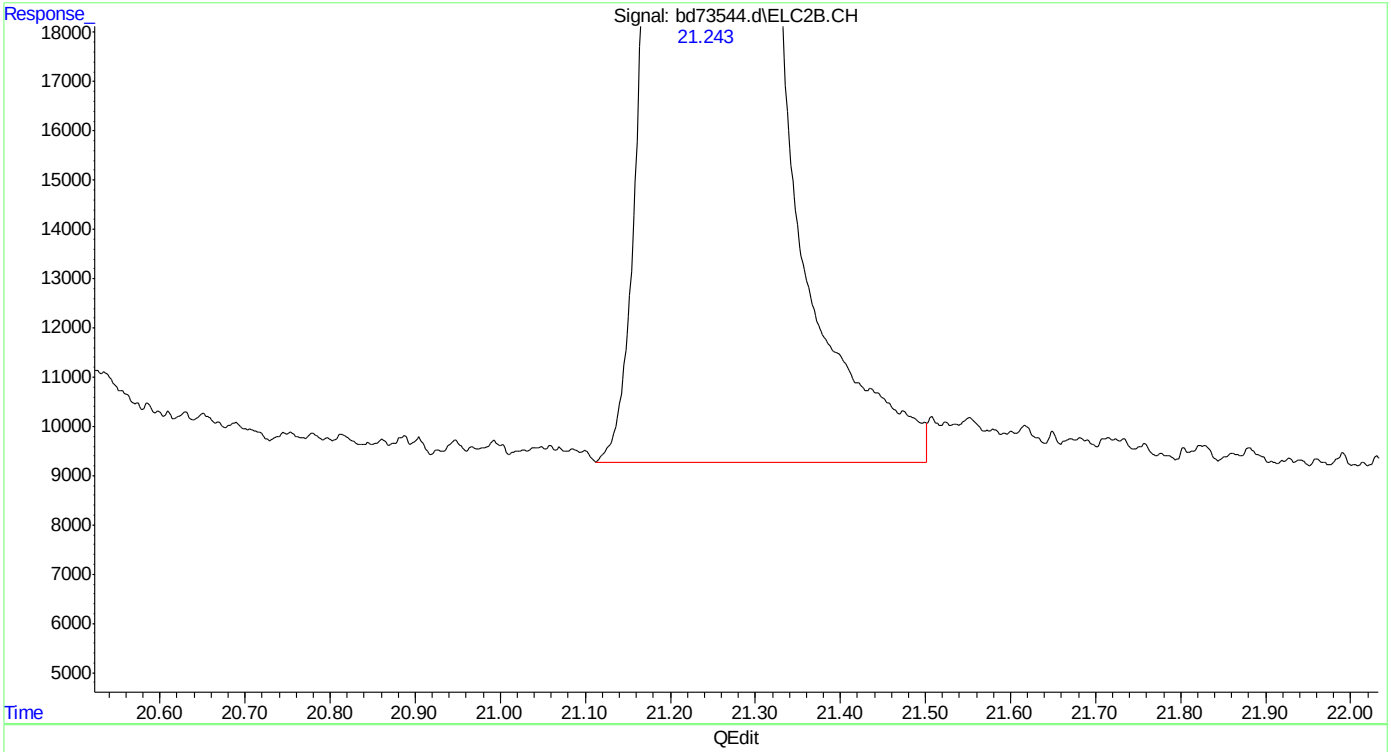
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(18) 2,3,4-trifluorotoluene #2 (s)
21.243min 43.541 ppb m
response 8571363

(+) = Expected Retention Time
bd160513vph.M Fri May 13 10:00:51 2016

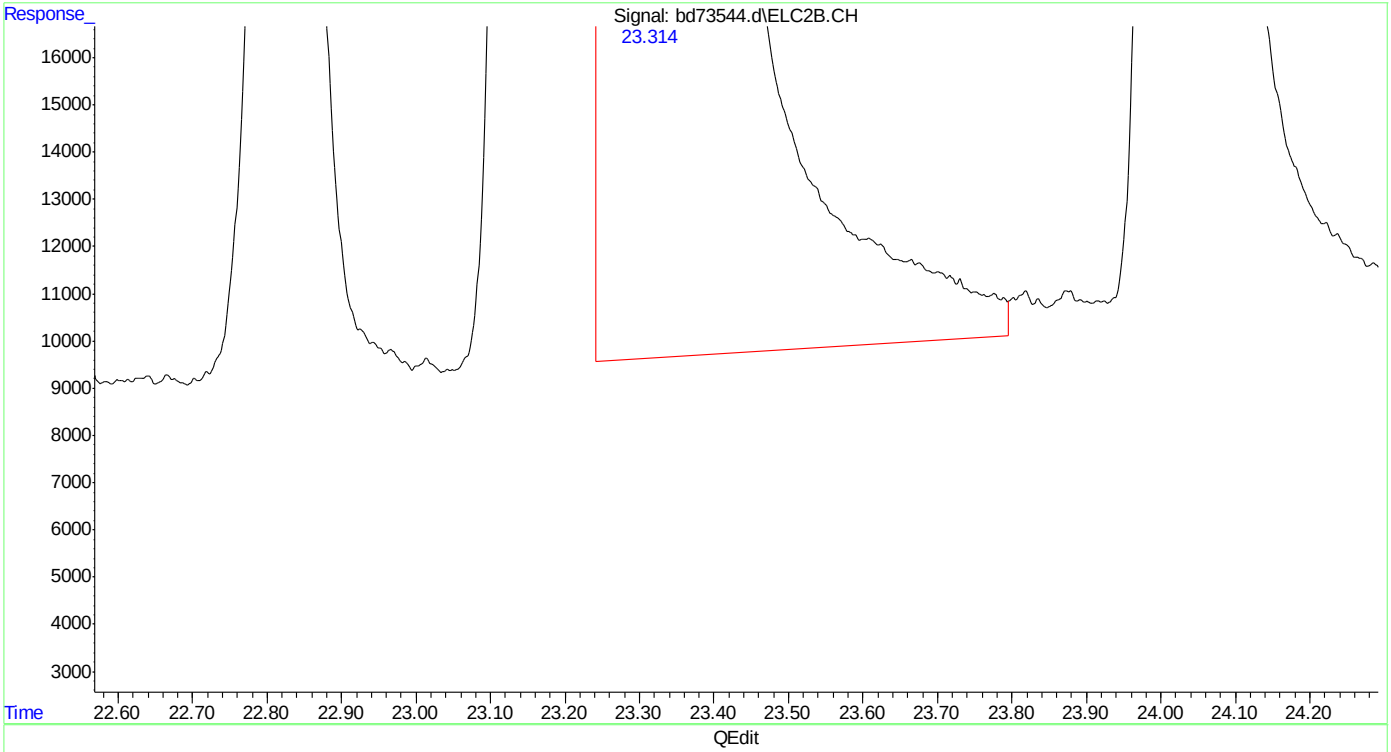
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
23.315min 92.112 ppb
response 45912642

(+) = Expected Retention Time
bd160513vph.M Fri May 13 10:00:59 2016

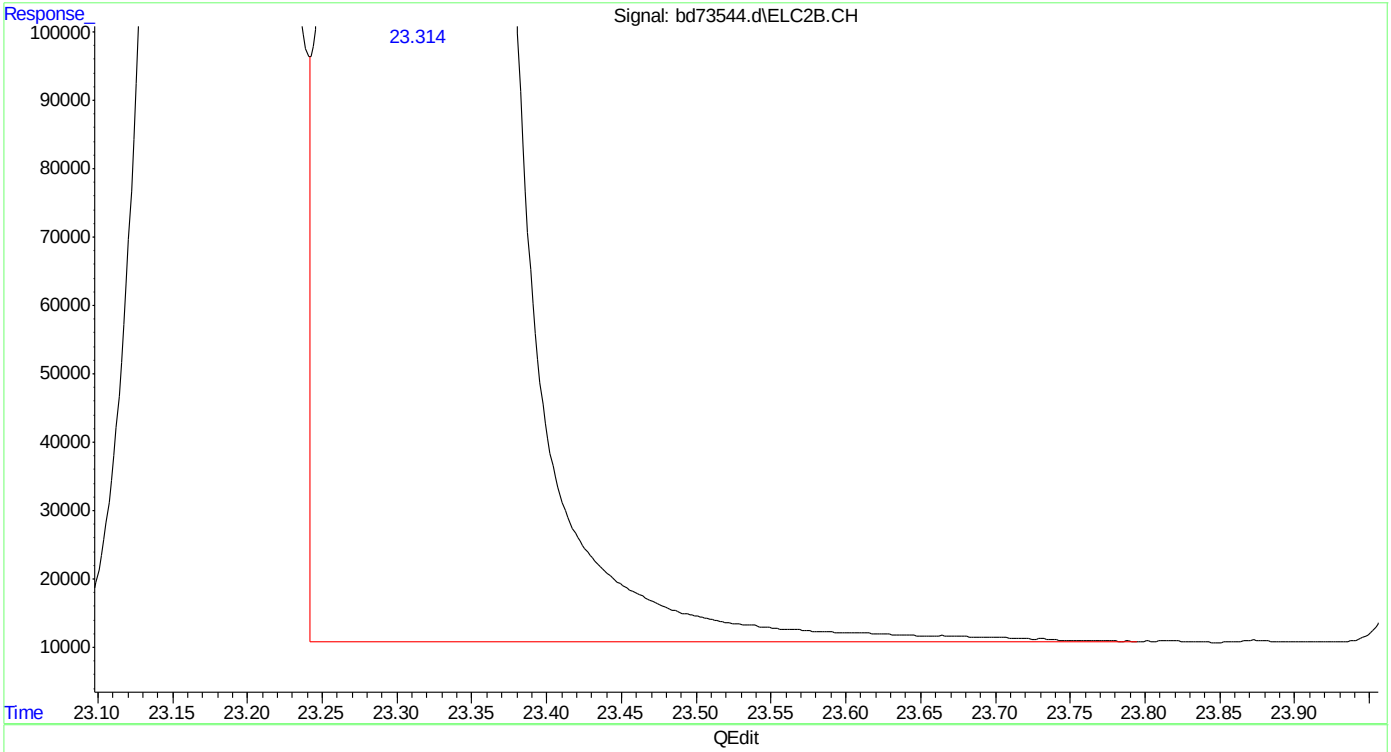
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
23.314min 91.440 ppb m
response 45577507

(+) = Expected Retention Time
bd160513vph.M Fri May 13 10:01:25 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(21) o-xylene #2
24.037min 44.721 ppb
response 19443966

(+) = Expected Retention Time
bd160513vph.M Fri May 13 10:01:31 2016

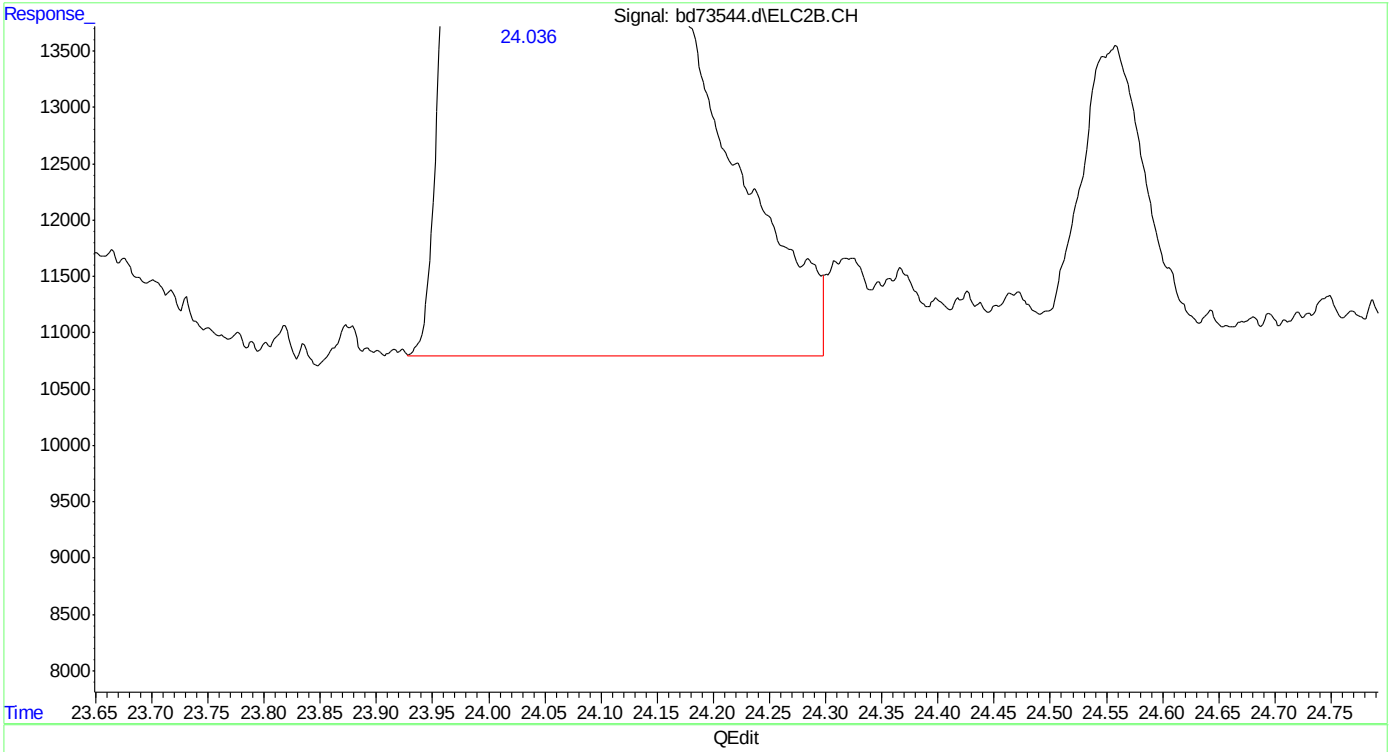
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) o-xylene #2
24.036min 44.526 ppb m
response 19359138

(+) = Expected Retention Time
bd160513vph.M Fri May 13 10:01:40 2016

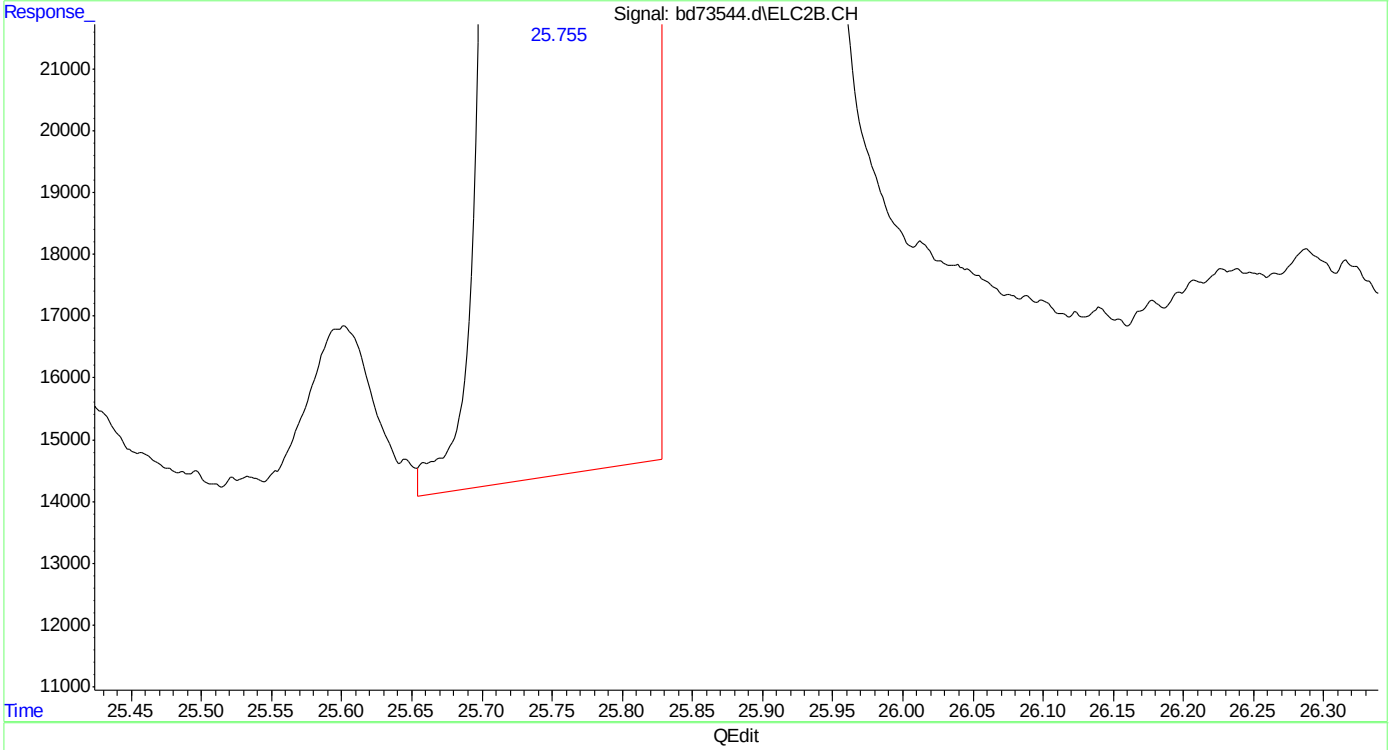
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.756min 44.512 ppb
response 21894223

(+) = Expected Retention Time

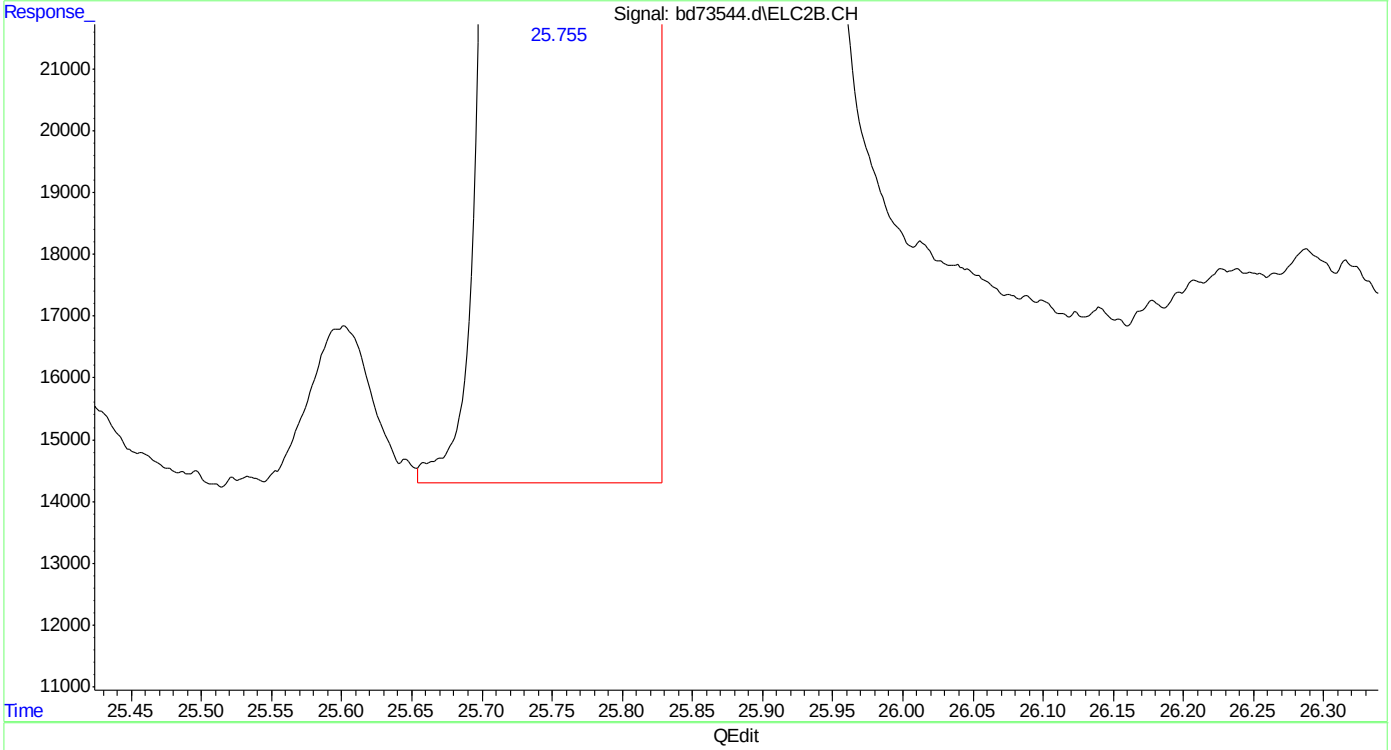
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(23) 1,2,4-trimethylbenzene #2
25.755min 44.537 ppb m
response 21906898

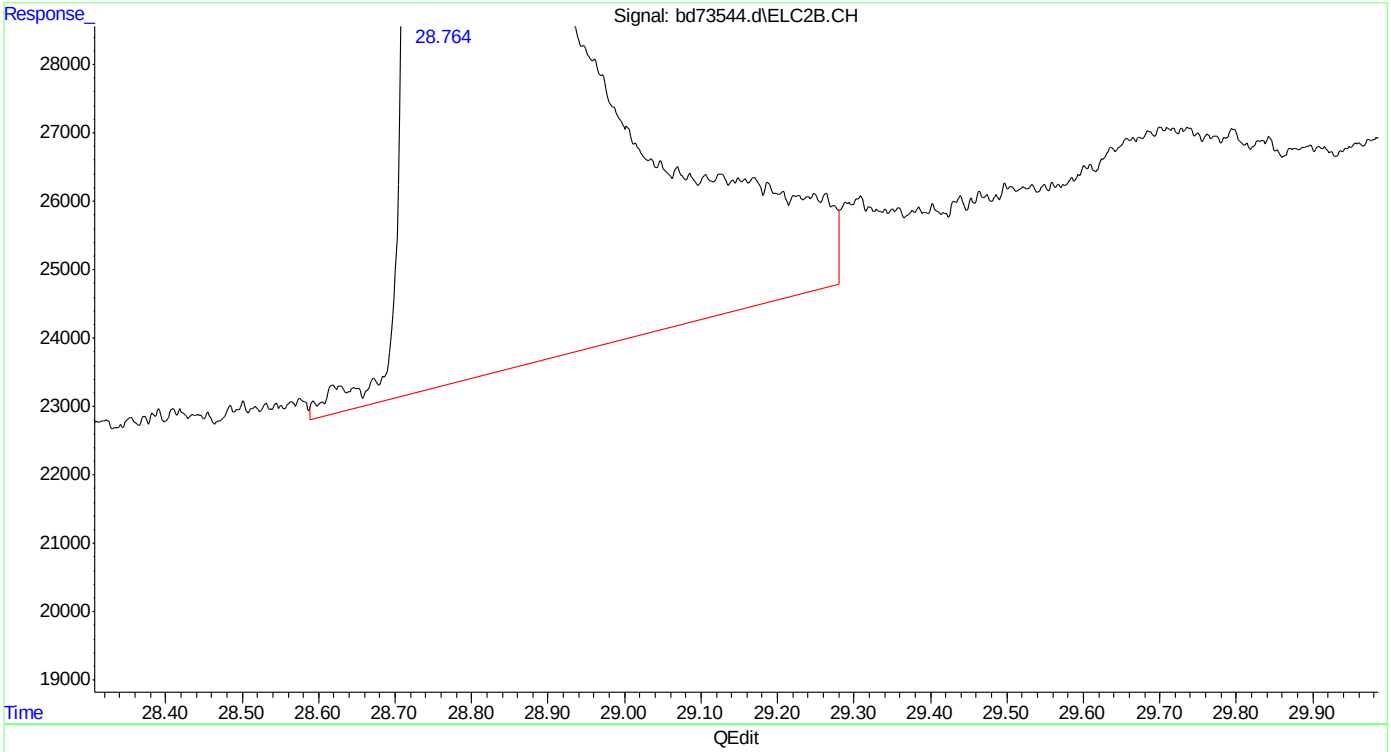
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.764min 53.023 ppb
response 19131275

(+) = Expected Retention Time

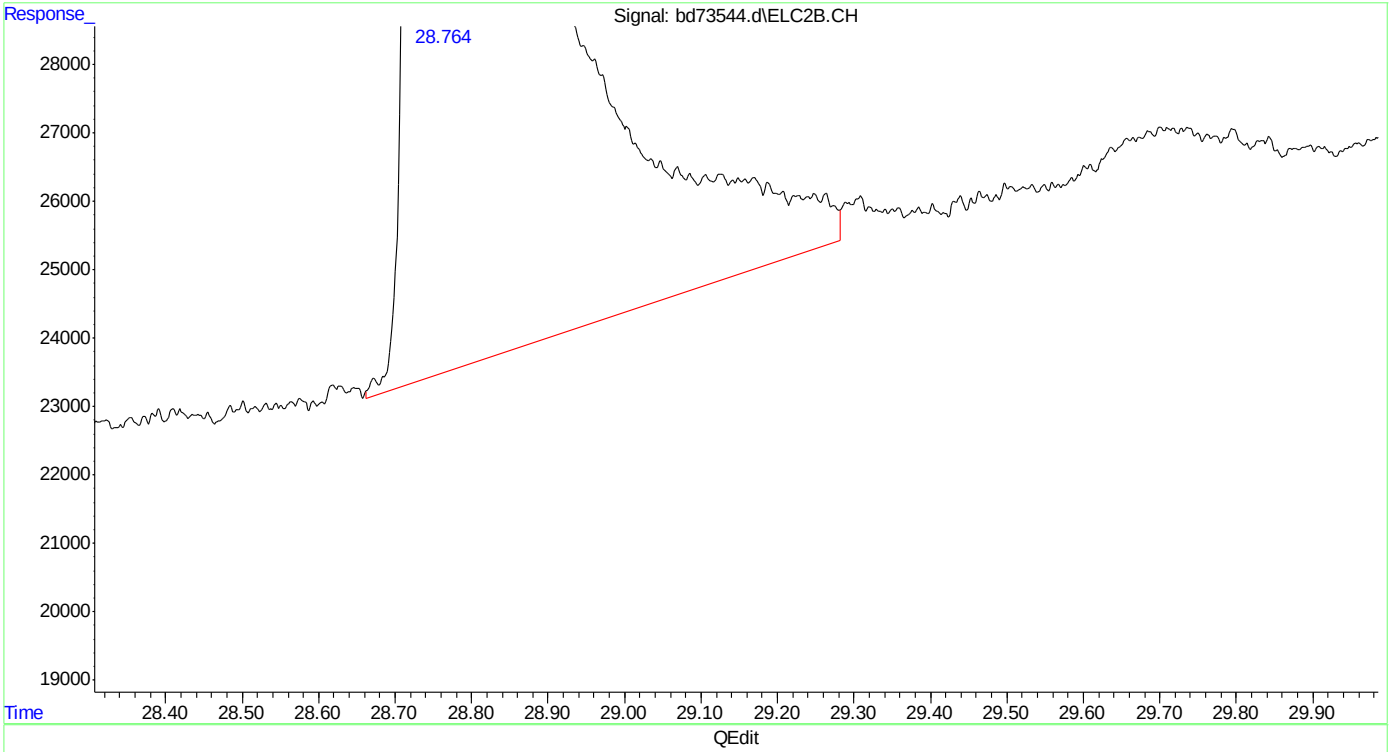
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73544.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 13-May-16, 09:23:24
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 13 09:58:27 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.764min 52.620 ppb m
response 18984357

(+) = Expected Retention Time
bd160513vph.M Fri May 13 10:02:11 2016

SGS ACCUTEST MC45897

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73573.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14-May-16, 03:49:43
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:05:28 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
4) s fluorobenzene	16.428	36985658	54.358	ppb	
Spiked Amount 50.000		Recovery = 108.72%			
6) s 2,3,4-trifluorotoluene	21.245	28366666	54.446	ppb	
Spiked Amount 50.000		Recovery = 108.89%			
16) s fluorobenzene #2	16.429	14726791	43.409	ppb	
Spiked Amount 50.000		Recovery = 86.82%			
18) s 2,3,4-trifluorotoluen...	21.245	8566809	43.518	ppb	
Spiked Amount 50.000		Recovery = 87.04%			
Target Compounds					
1) h rt5.5-7	7.470	27841600	45.143	ppb	m
2) h rt7/10	9.920	33632803	54.533	ppb	m
3) h rt10/13	15.200	30063898	48.746	ppb	m
8) h rt20/25	22.840	34828892	43.524	ppb	m
10) h decane	24.930	32338283	40.412	ppb	
11) h butylcyclohexane	25.908	38155924	47.682	ppb	
14) mtbe #2	10.684	7644066	49.602	ppb	m
15) benzene #2	15.935	22789884	47.125	ppb	
17) toluene #2	20.228	21420053	47.314	ppb	
19) ethylbenzene #2	23.181	19146781	46.136	ppb	
20) m,p-xylene #2	23.317	46345420	92.980	ppb	
21) o-xylene #2	24.038	19544377	44.952	ppb	
22) t 1,3,5-trimethylbenzen...	25.280	28068036	41.828	ppb	
23) 1,2,4-trimethylbenzen...	25.758	22102719	44.936	ppb	
24) naphthalene #2	28.765f	19021026	52.720	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	22052573	44.854	ppb	m

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

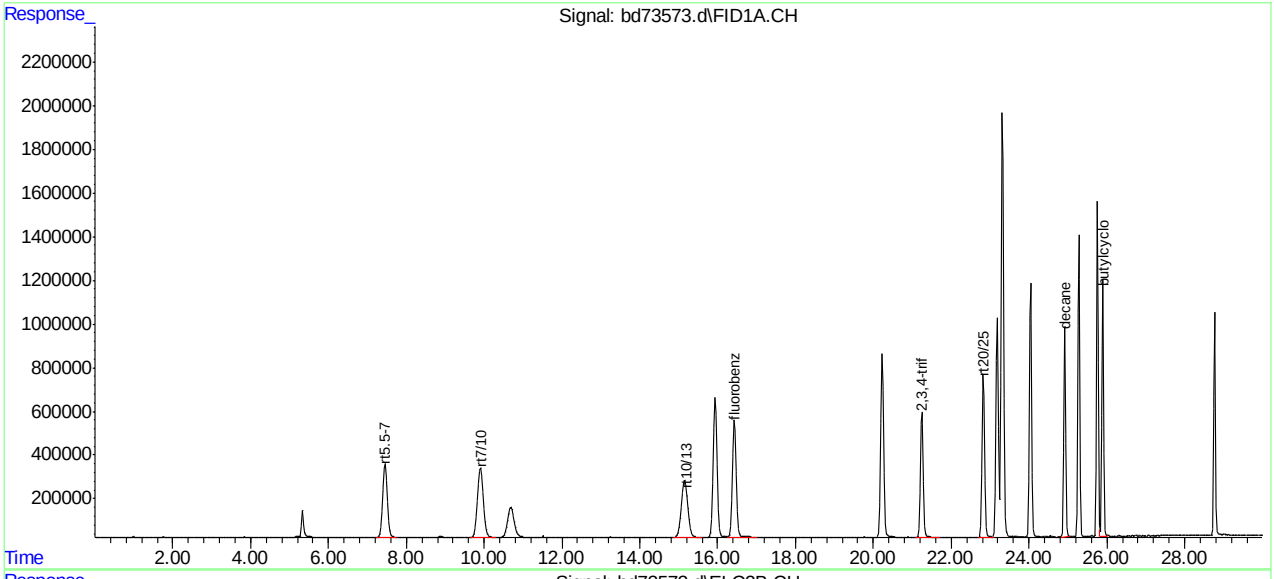
SGS ACCUTEST MC45897

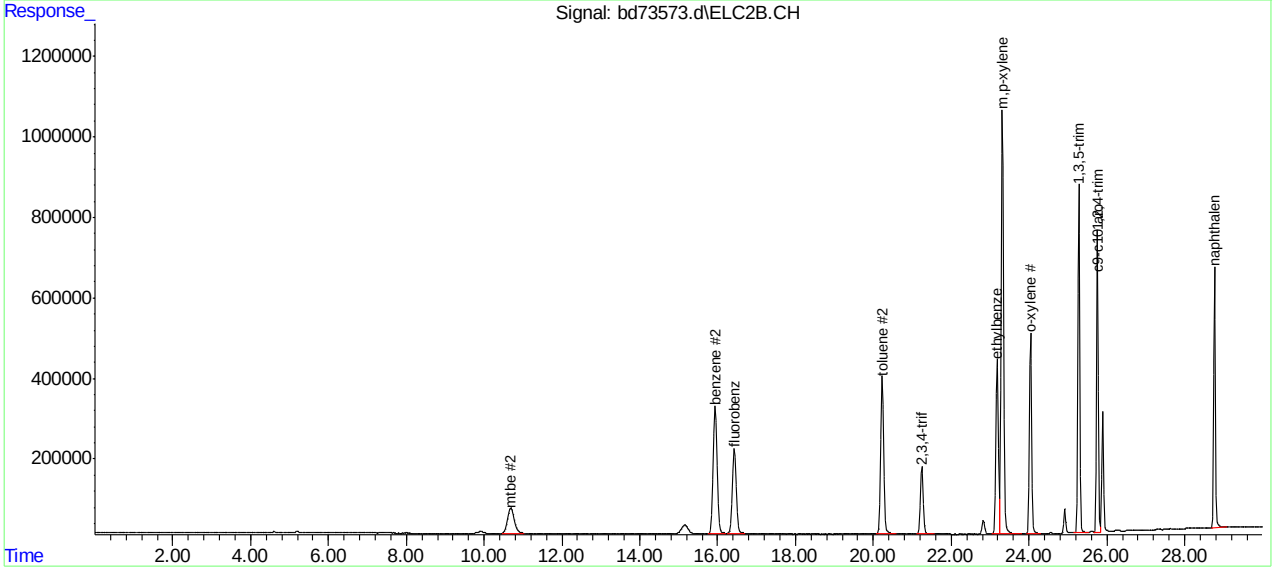
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73573.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14-May-16, 03:49:43
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

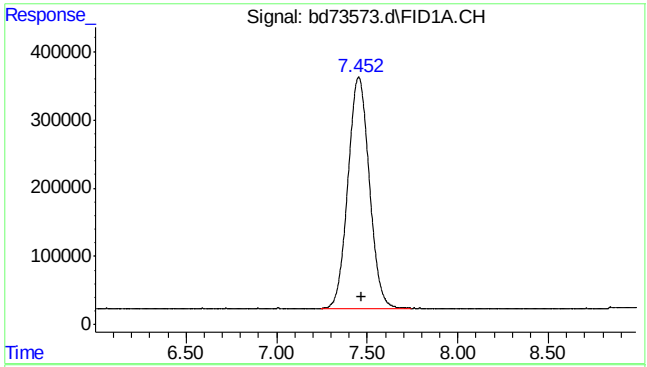
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:05:28 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



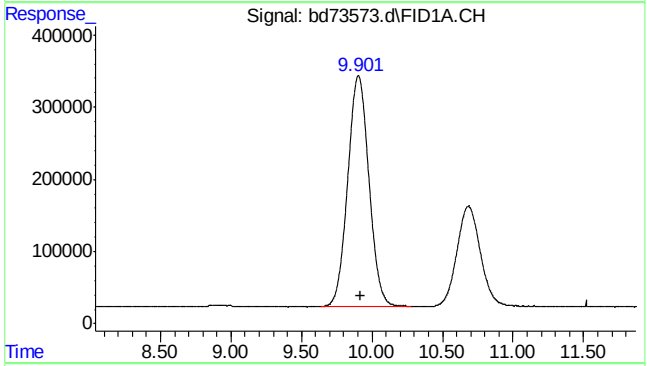


SGS ACCUTEST MC45897



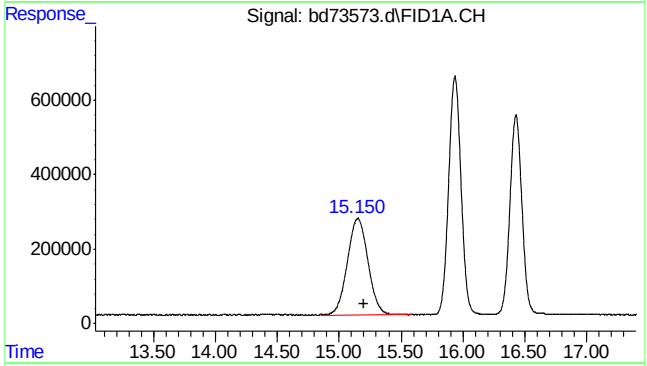
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 27841600
Conc: 45.14 ppb m



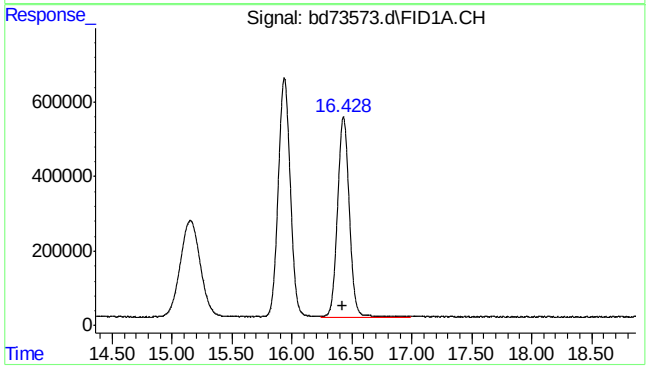
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 33632803
Conc: 54.53 ppb m



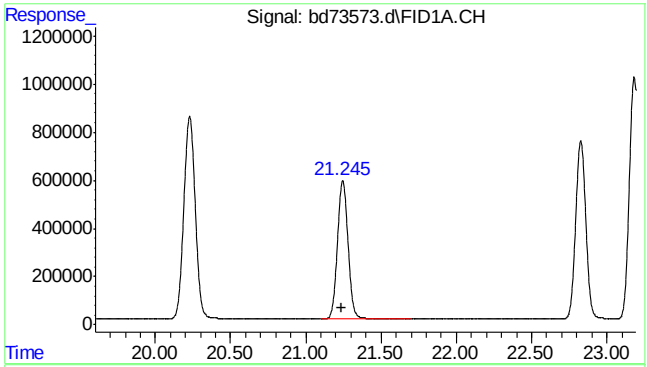
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 30063898
Conc: 48.75 ppb m



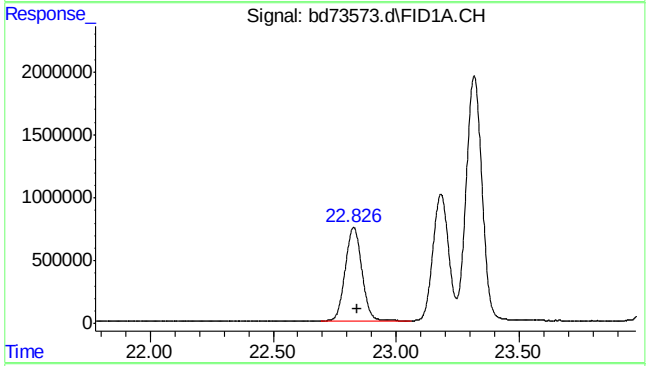
#4 fluorobenzene

R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 36985658
Conc: 54.36 ppb



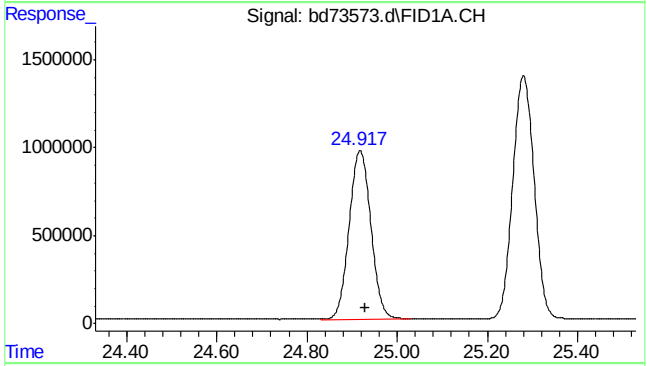
#6 2,3,4-trifluorotoluene

R.T.: 21.245 min
Delta R.T.: 0.008 min
Response: 28366666
Conc: 54.45 ppb



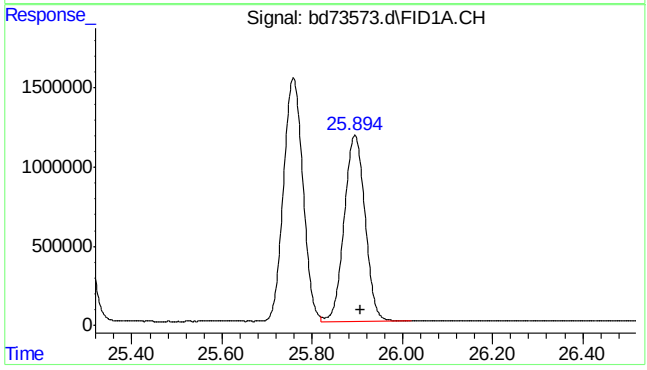
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 34828892
Conc: 43.52 ppb m



#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 32338283
Conc: 40.41 ppb



#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 38155924
Conc: 47.68 ppb

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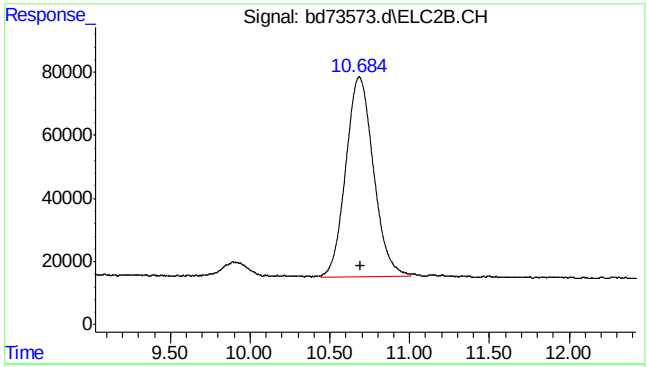
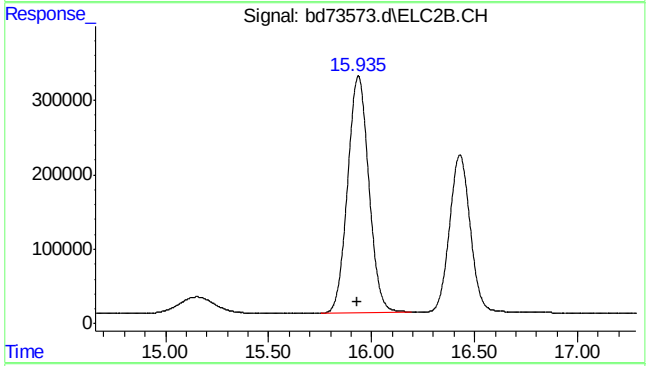


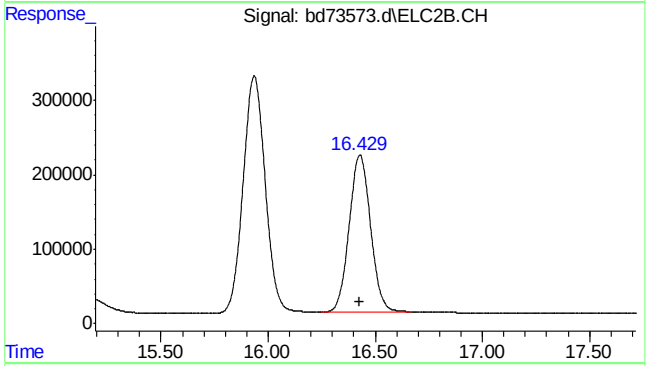
#14 mtbe #2

R.T.: 10.684 min
Delta R.T.: -0.012 min
Response: 7644066
Conc: 49.60 ppb m



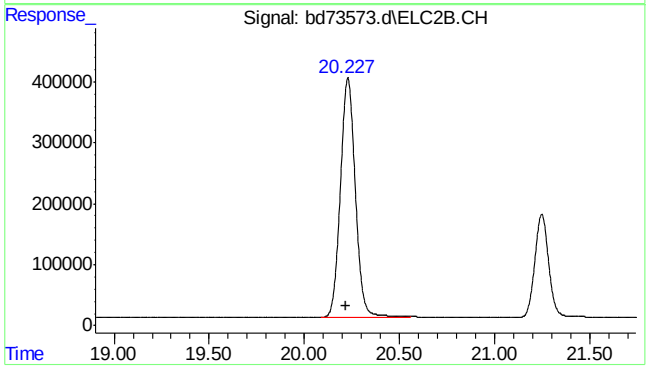
#15 benzene #2

R.T.: 15.935 min
Delta R.T.: 0.003 min
Response: 22789884
Conc: 47.13 ppb



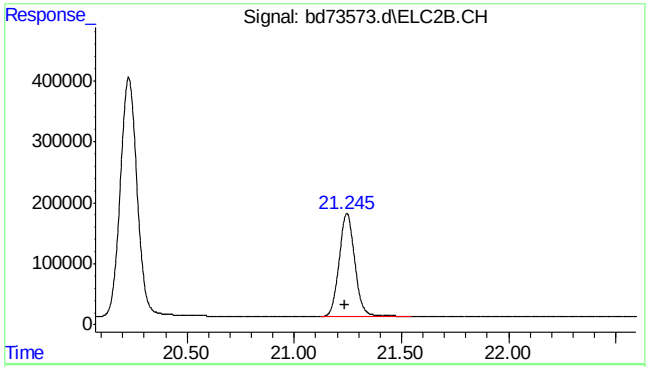
#16 fluorobenzene #2

R.T.: 16.429 min
Delta R.T.: 0.005 min
Response: 14726791
Conc: 43.41 ppb



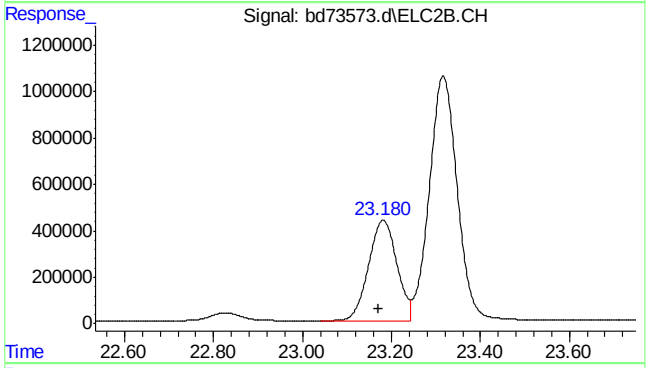
#17 toluene #2

R.T.: 20.228 min
Delta R.T.: 0.007 min
Response: 21420053
Conc: 47.31 ppb



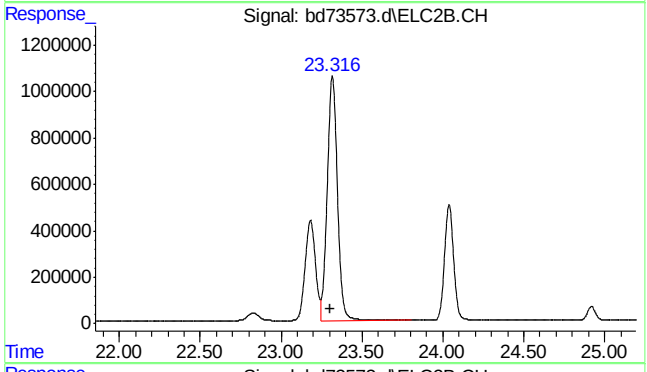
#18 2,3,4-trifluorotoluene #2

R.T.: 21.245 min
Delta R.T.: 0.008 min
Response: 8566809
Conc: 43.52 ppb



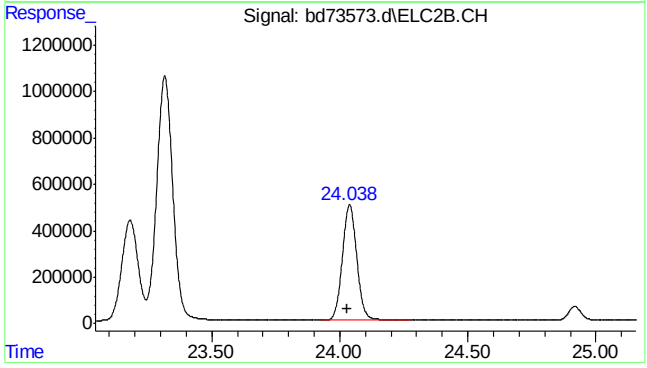
#19 ethylbenzene #2

R.T.: 23.181 min
Delta R.T.: 0.009 min
Response: 19146781
Conc: 46.14 ppb



#20 m,p-xylene #2

R.T.: 23.317 min
Delta R.T.: 0.010 min
Response: 46345420
Conc: 92.98 ppb



#21 o-xylene #2

R.T.: 24.038 min
Delta R.T.: 0.011 min
Response: 19544377
Conc: 44.95 ppb

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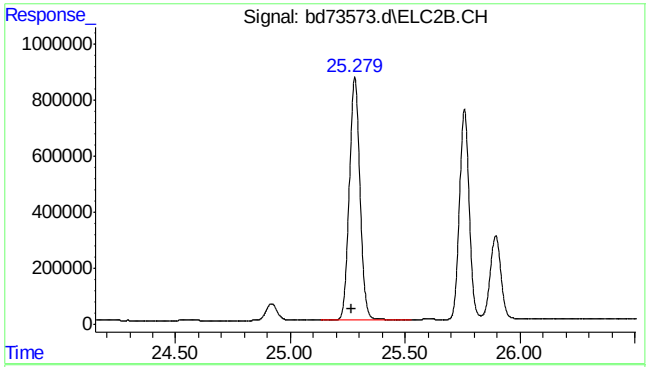
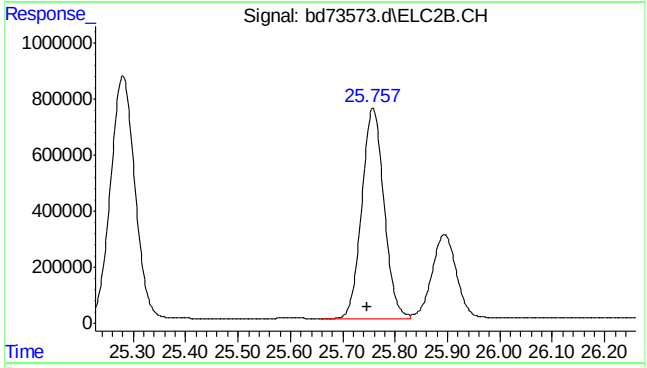


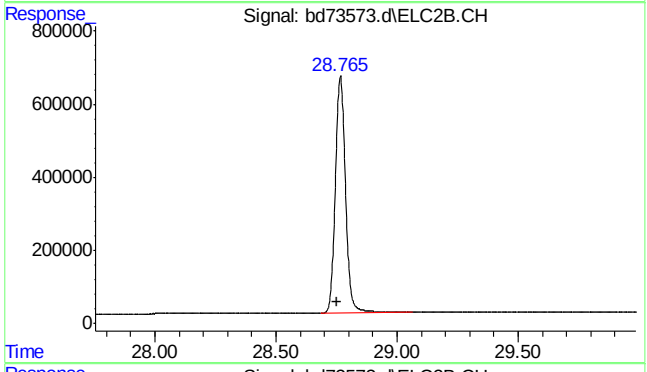
#22 1,3,5-trimethylbenzene #2

R.T.: 25.280 min
Delta R.T.: 0.012 min
Response: 28068036
Conc: 41.83 ppb



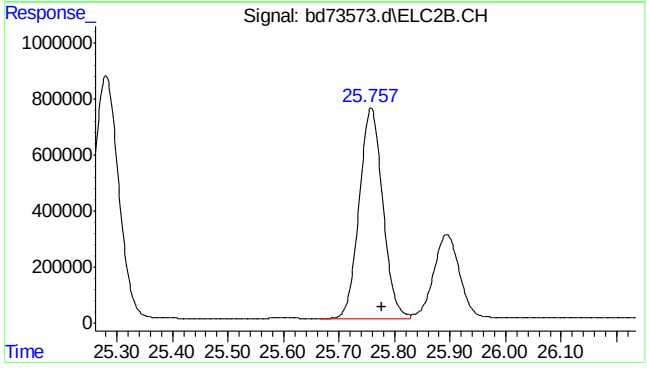
#23 1,2,4-trimethylbenzene #2

R.T.: 25.758 min
Delta R.T.: 0.012 min
Response: 22102719
Conc: 44.94 ppb



#24 naphthalene #2

R.T.: 28.765 min
Delta R.T.: 0.015 min
Response: 19021026
Conc: 52.72 ppb m



#25 c9-c10 arom as 1,2,4-tmb

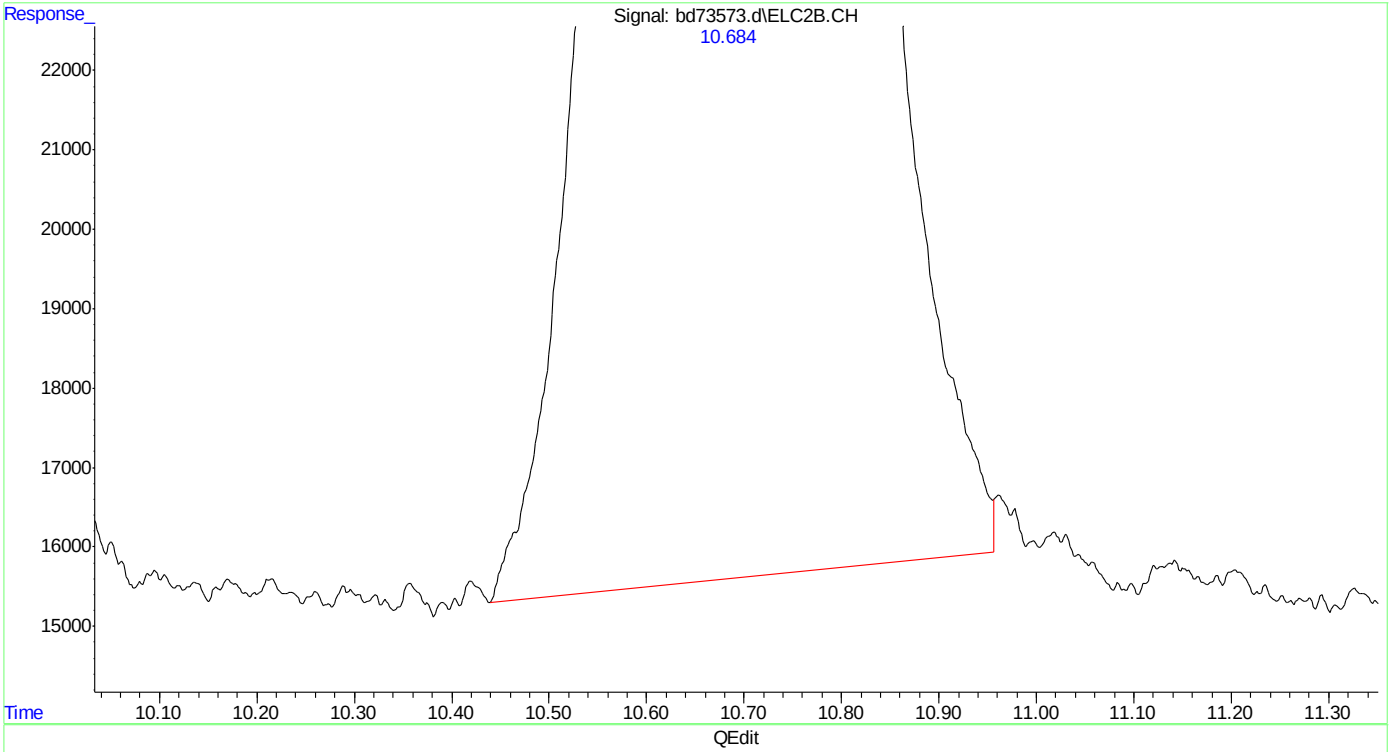
R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 22052573
Conc: 44.85 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73573.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14-May-16, 03:49:43
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:02:14 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.683min 48.599 ppb
response 7489447

(+) = Expected Retention Time
bd160513vph.M Mon May 16 07:04:50 2016

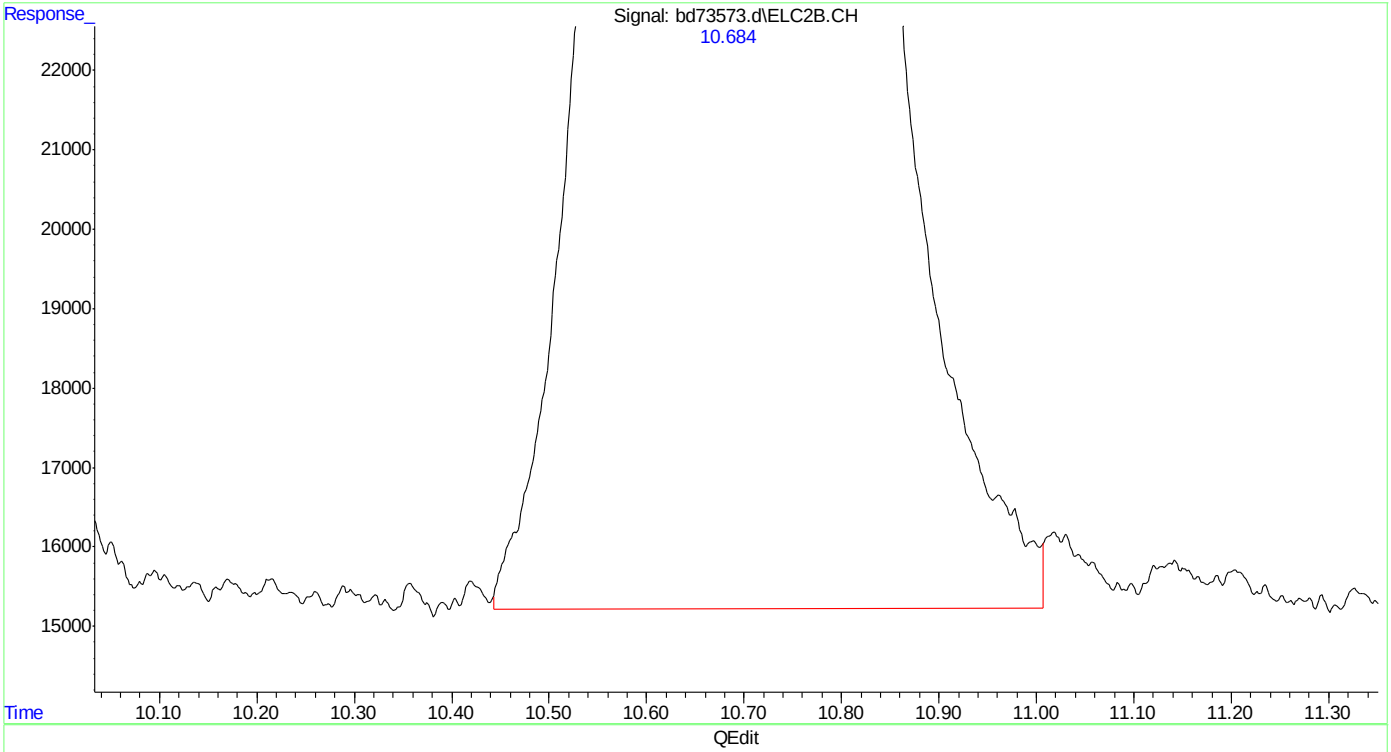
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73573.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14-May-16, 03:49:43
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:02:14 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.684min 49.602 ppb m
response 7644066

(+) = Expected Retention Time
bd160513vph.M Mon May 16 07:04:54 2016

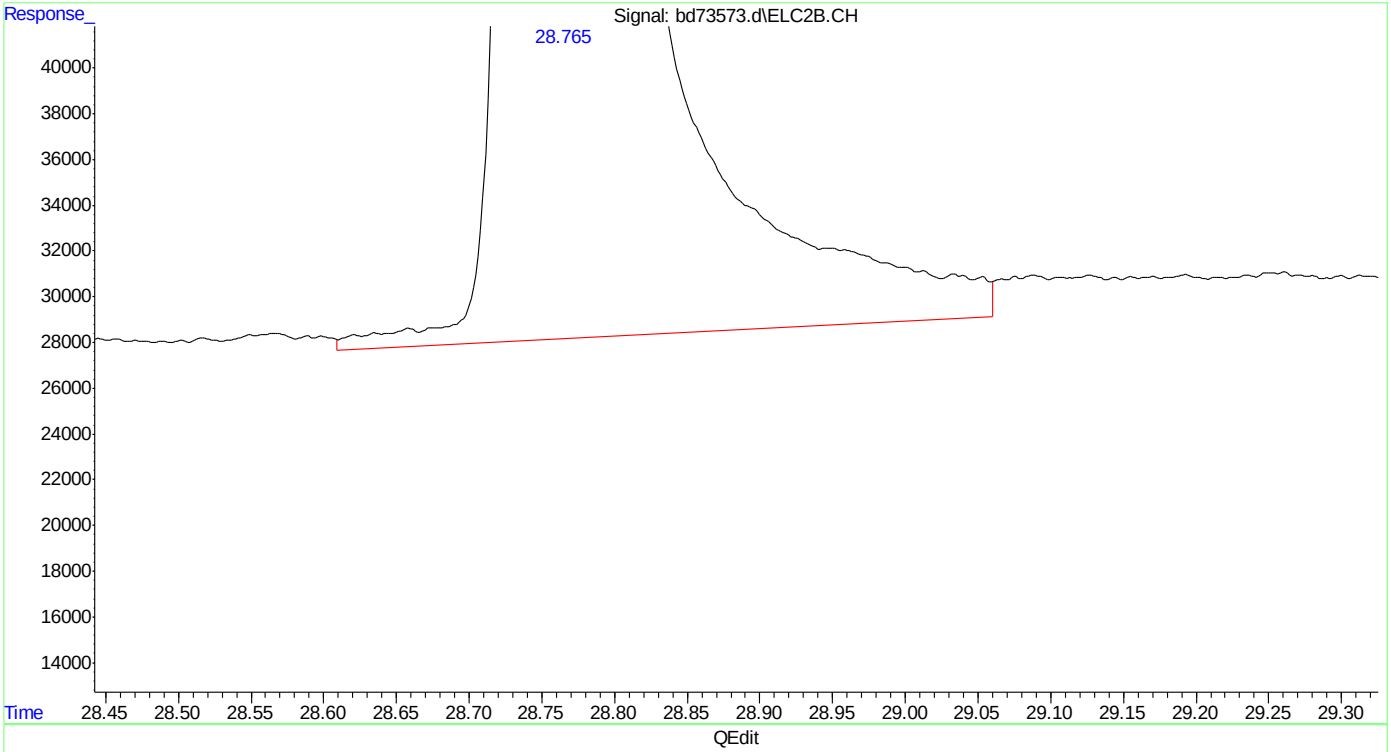
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73573.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14-May-16, 03:49:43
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:02:14 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.766min 53.430 ppb
response 19279765

(+) = Expected Retention Time
bd160513vph.M Mon May 16 07:05:08 2016

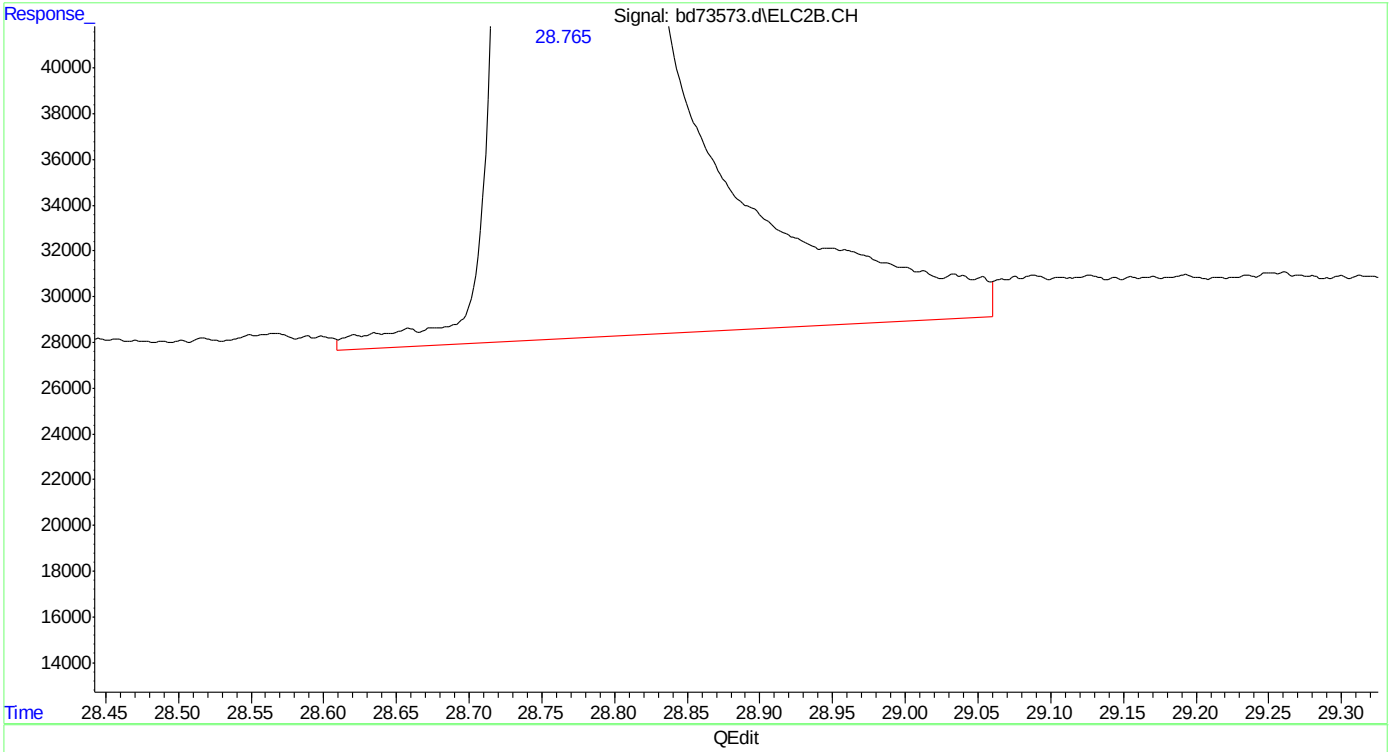
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73573.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14-May-16, 03:49:43
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:02:14 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.766min 53.430 ppb
response 19279765

(+) = Expected Retention Time
bd160513vph.M Mon May 16 07:05:12 2016

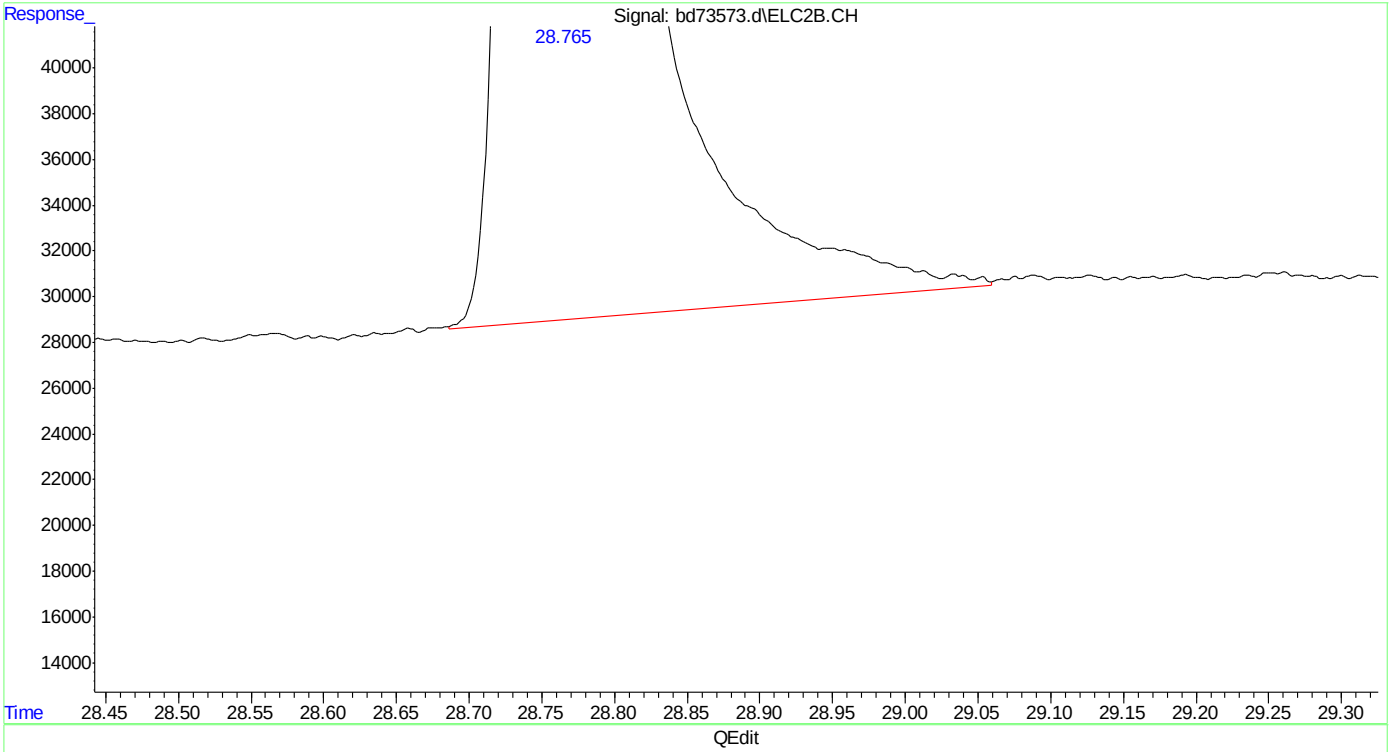
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160513\
Data File : bd73573.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 14-May-16, 03:49:43
Operator : danielf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 07:02:14 2016
Quant Method : C:\msdchem\1\methods\bd160513vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.765min 52.720 ppb m
response 19021026

(+) = Expected Retention Time
bd160513vph.M Mon May 16 07:05:17 2016

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Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/16/16 14:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73574c.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 09:15:09
Operator : tonyf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 09:52:24 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.424	34338133	50.467 ppb	
Spiked Amount 50.000		Recovery	= 100.93%	
6) s 2,3,4-trifluorotoluene	21.242	26563890	50.986 ppb	
Spiked Amount 50.000		Recovery	= 101.97%	
16) s fluorobenzene #2	16.424	13999345	41.265 ppb	
Spiked Amount 50.000		Recovery	= 82.53%	
18) s 2,3,4-trifluorotoluen...	21.242	8205517	41.683 ppb	
Spiked Amount 50.000		Recovery	= 83.37%	
Target Compounds				
1) h rt5.5-7	7.470	25693784	41.660 ppb	m
2) h rt7/10	9.920	31403437	50.918 ppb	m
3) h rt10/13	15.200	27691191	44.899 ppb	m
8) h rt20/25	22.840	32349149	40.425 ppb	m
10) h decane	24.930	31199112	38.988 ppb	
11) h butylcyclohexane	25.908	36311807	45.377 ppb	m
14) mtbe #2	10.682	7152095	46.410 ppb	m
15) benzene #2	15.931	21883284	45.250 ppb	
17) toluene #2	20.224	20561422	45.418 ppb	
19) ethylbenzene #2	23.178	18301344	44.098 ppb	
20) m,p-xylene #2	23.314	44396053	89.069 ppb	
21) o-xylene #2	24.036	18748896	43.122 ppb	
22) t 1,3,5-trimethylbenzen...	25.278	27039299	40.295 ppb	
23) 1,2,4-trimethylbenzen...	25.755	21185226	43.070 ppb	
24) naphthalene #2	28.763	16555644	45.960 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21205136	43.131 ppb	m

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

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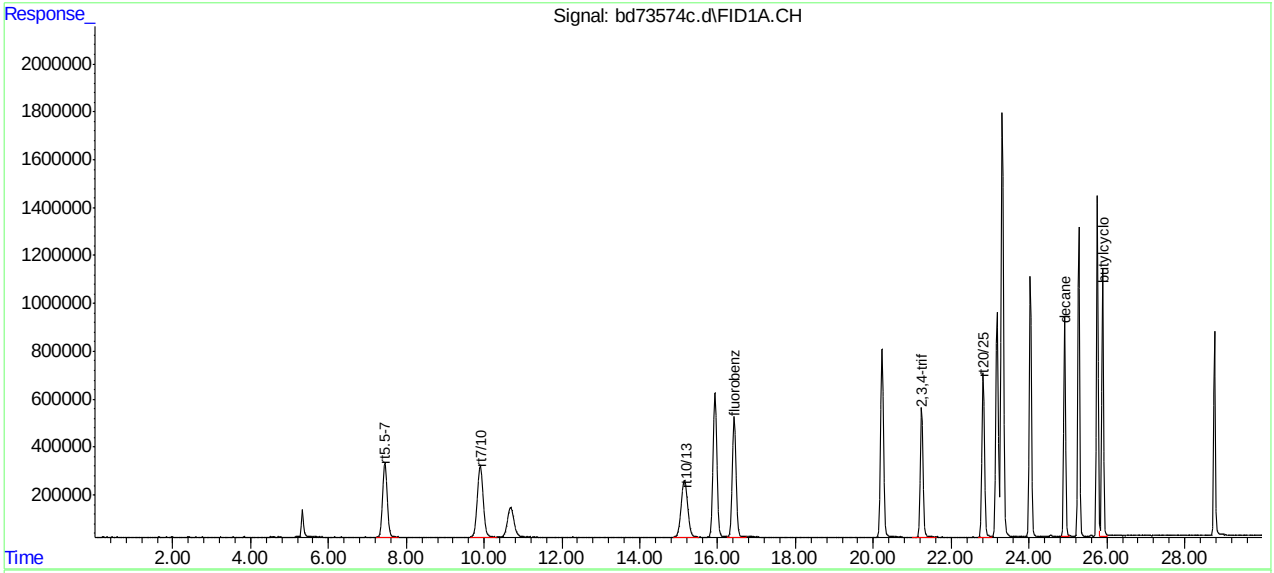
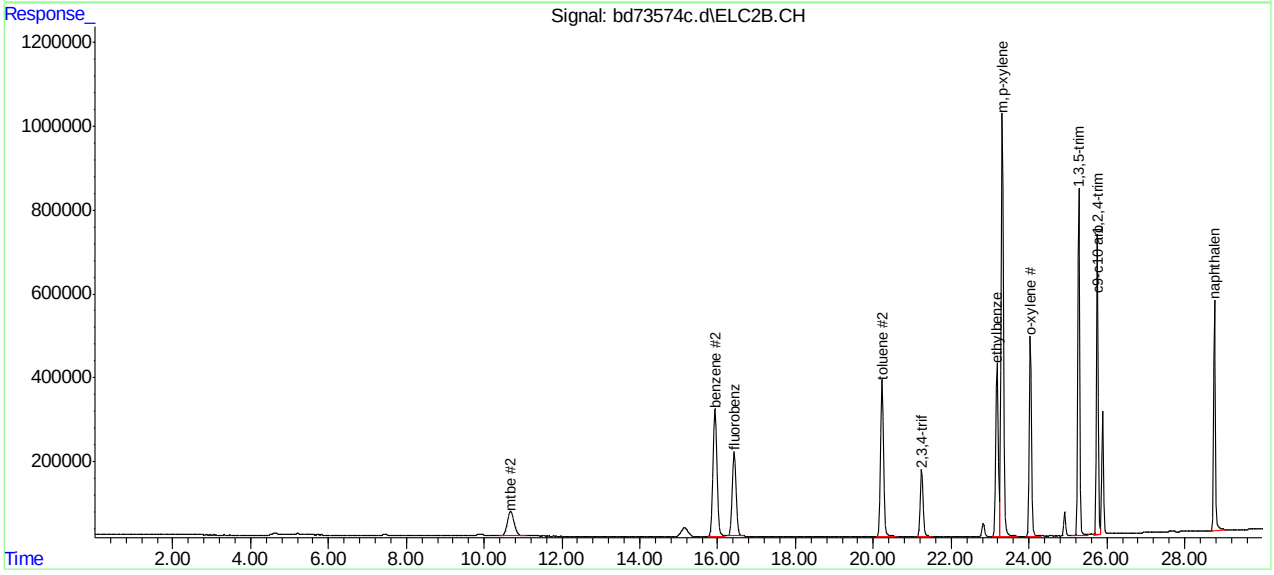
Quantitation Report (QT Reviewed)

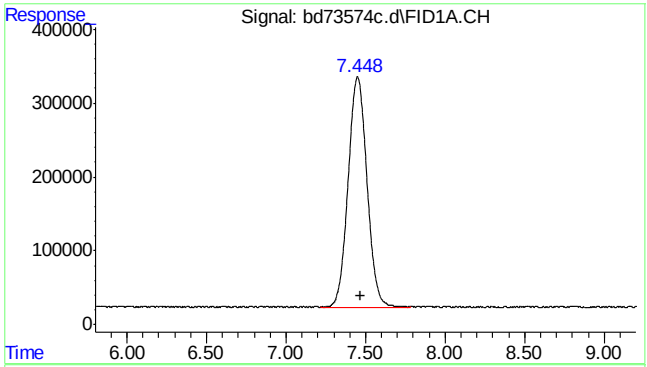
Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73574c.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 09:15:09
Operator : tonyf
Sample : cc3572-50
Misc : gc26235,gbd3635,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 09:52:24 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

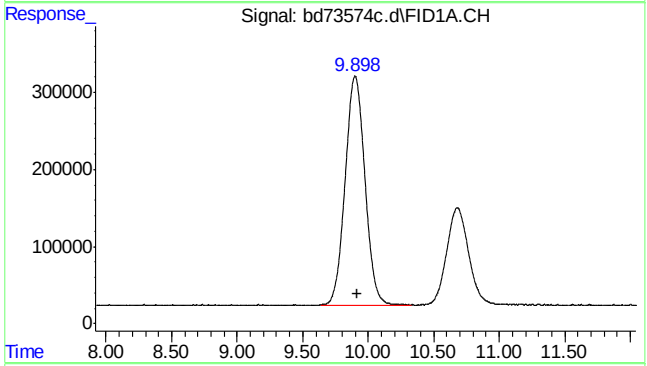






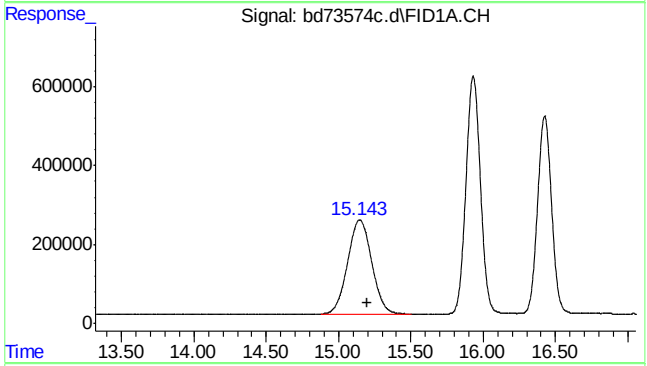
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 25693784
Conc: 41.66 ppb m



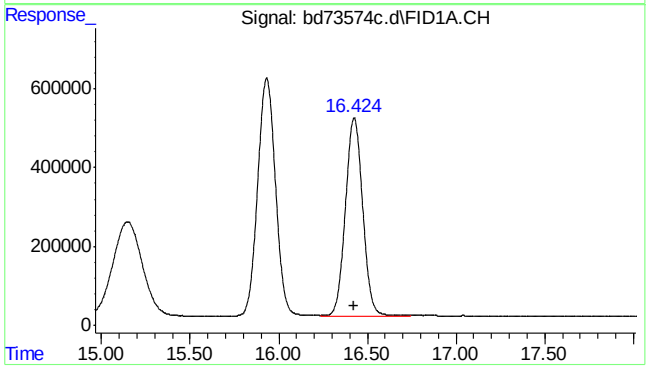
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 31403437
Conc: 50.92 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 27691191
Conc: 44.90 ppb m



#4 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 34338133
Conc: 50.47 ppb

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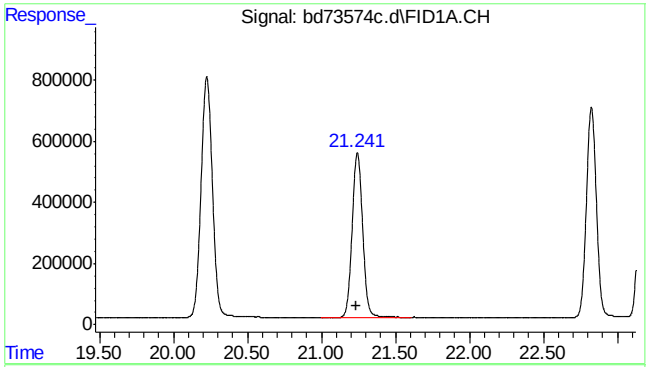
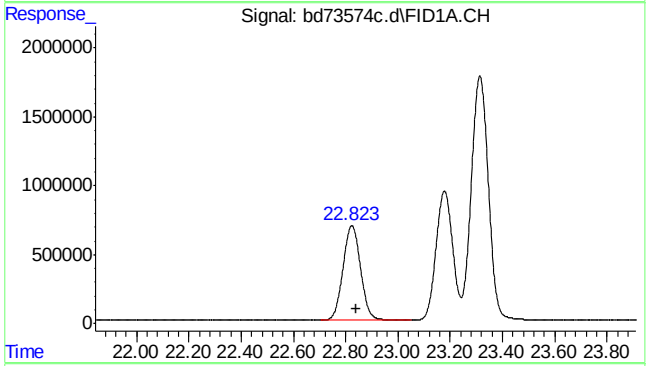


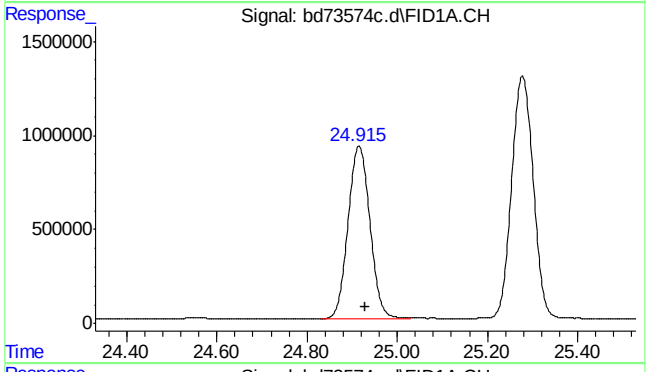
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 26563890
Conc: 50.99 ppb



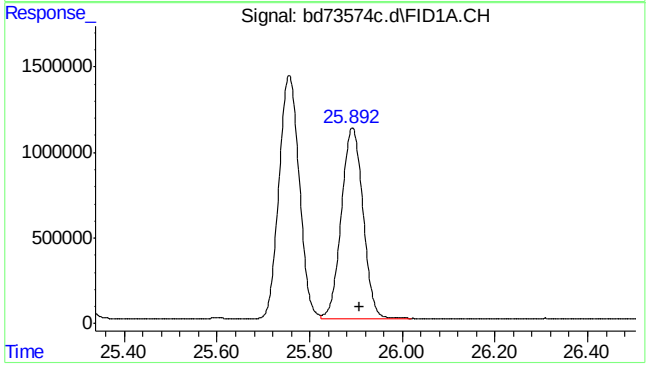
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 32349149
Conc: 40.43 ppb m



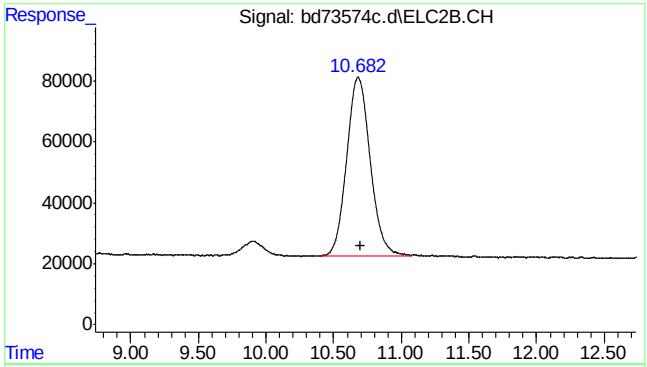
#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 31199112
Conc: 38.99 ppb



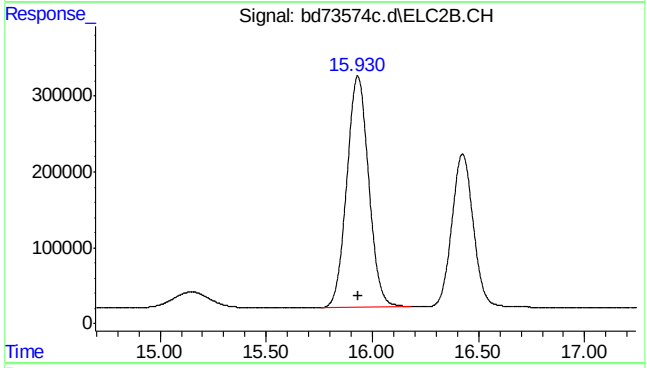
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 36311807
Conc: 45.38 ppb m



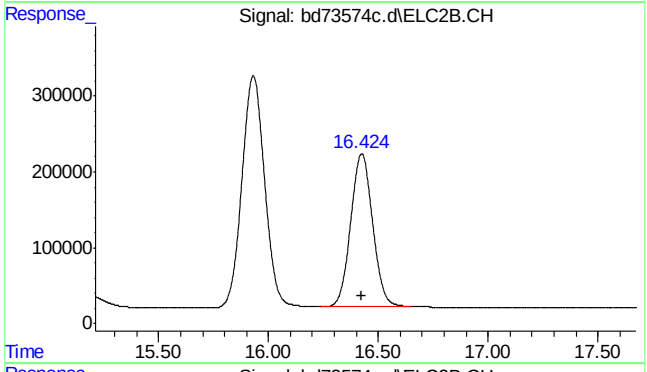
#14 mtbe #2

R.T.: 10.682 min
Delta R.T.: -0.014 min
Response: 7152095
Conc: 46.41 ppb m



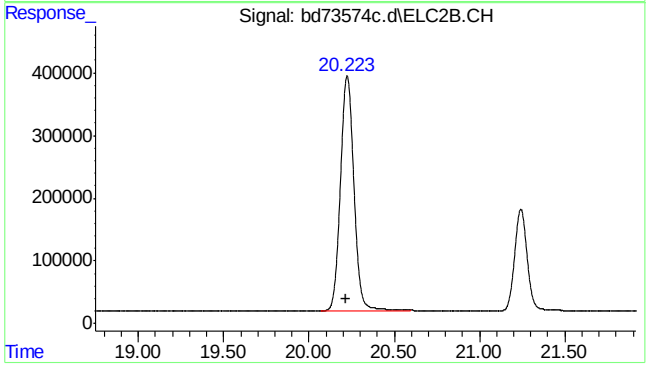
#15 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 21883284
Conc: 45.25 ppb



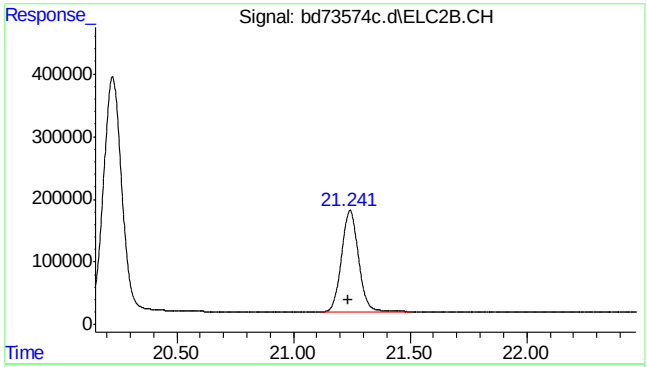
#16 fluorobenzene #2

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 13999345
Conc: 41.27 ppb



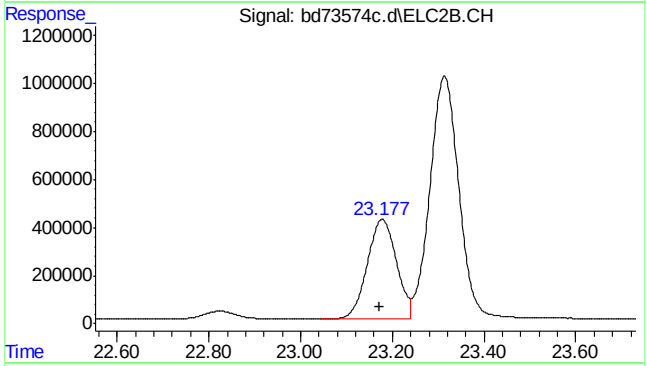
#17 toluene #2

R.T.: 20.224 min
Delta R.T.: 0.003 min
Response: 20561422
Conc: 45.42 ppb



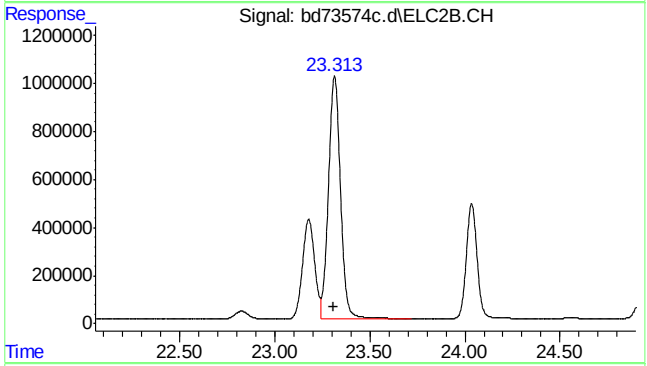
#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8205517
Conc: 41.68 ppb



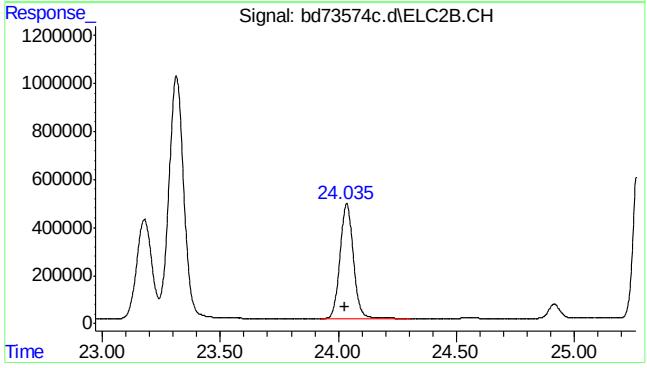
#19 ethylbenzene #2

R.T.: 23.178 min
Delta R.T.: 0.006 min
Response: 18301344
Conc: 44.10 ppb



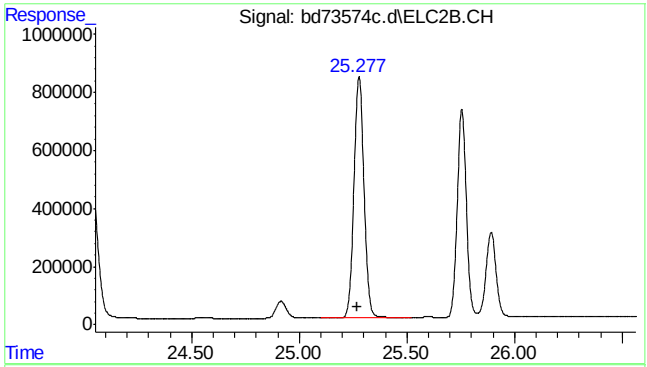
#20 m,p-xylene #2

R.T.: 23.314 min
Delta R.T.: 0.007 min
Response: 44396053
Conc: 89.07 ppb



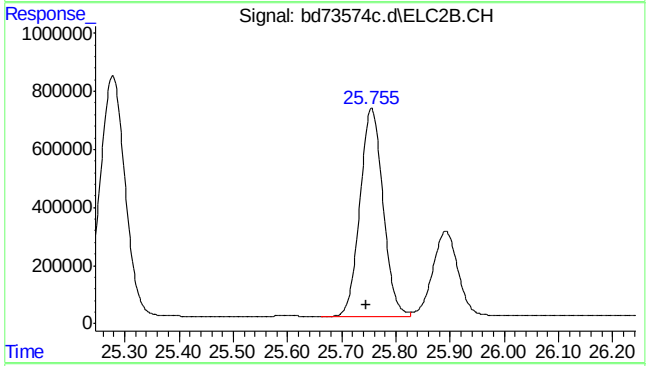
#21 o-xylene #2

R.T.: 24.036 min
Delta R.T.: 0.008 min
Response: 18748896
Conc: 43.12 ppb



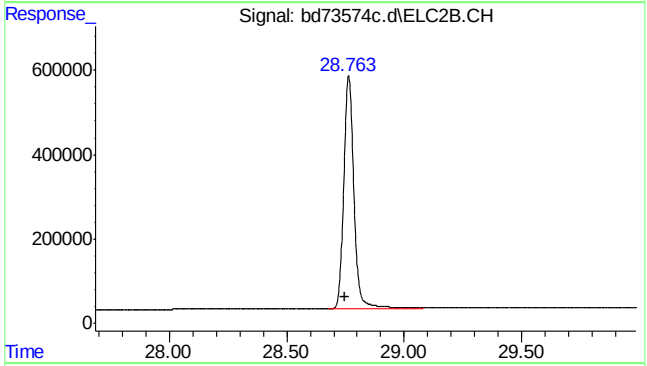
#22 1,3,5-trimethylbenzene #2

R.T.: 25.278 min
Delta R.T.: 0.010 min
Response: 27039299
Conc: 40.30 ppb



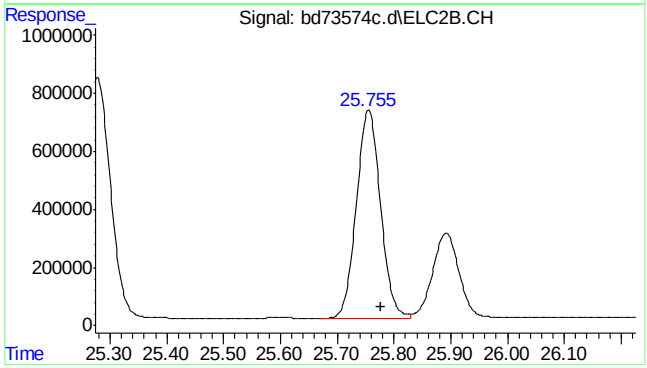
#23 1,2,4-trimethylbenzene #2

R.T.: 25.755 min
Delta R.T.: 0.009 min
Response: 21185226
Conc: 43.07 ppb



#24 naphthalene #2

R.T.: 28.763 min
Delta R.T.: 0.013 min
Response: 16555644
Conc: 45.96 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21205136
Conc: 43.13 ppb m

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Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/17/16 09:47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73574.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 09:15:09
Operator : tonyf
Sample : cc3572-50
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 09:52:24 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.424	34338133	50.467 ppb	
Spiked Amount 50.000		Recovery	= 100.93%	
6) s 2,3,4-trifluorotoluene	21.242	26563890	50.986 ppb	
Spiked Amount 50.000		Recovery	= 101.97%	
16) s fluorobenzene #2	16.424	13999345	41.265 ppb	
Spiked Amount 50.000		Recovery	= 82.53%	
18) s 2,3,4-trifluorotoluen...	21.242	8205517	41.683 ppb	
Spiked Amount 50.000		Recovery	= 83.37%	
Target Compounds				
1) h rt5.5-7	7.470	25693784	41.660 ppb	m
2) h rt7/10	9.920	31403437	50.918 ppb	m
3) h rt10/13	15.200	27691191	44.899 ppb	m
8) h rt20/25	22.840	32349149	40.425 ppb	m
10) h decane	24.930	31199112	38.988 ppb	
11) h butylcyclohexane	25.908	36311807	45.377 ppb	m
14) mtbe #2	10.682	7152095	46.410 ppb	m
15) benzene #2	15.931	21883284	45.250 ppb	
17) toluene #2	20.224	20561422	45.418 ppb	
19) ethylbenzene #2	23.178	18301344	44.098 ppb	
20) m,p-xylene #2	23.314	44396053	89.069 ppb	
21) o-xylene #2	24.036	18748896	43.122 ppb	
22) t 1,3,5-trimethylbenzen...	25.278	27039299	40.295 ppb	
23) 1,2,4-trimethylbenzen...	25.755	21185226	43.070 ppb	
24) naphthalene #2	28.763	16555644	45.960 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21205136	43.131 ppb	m

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

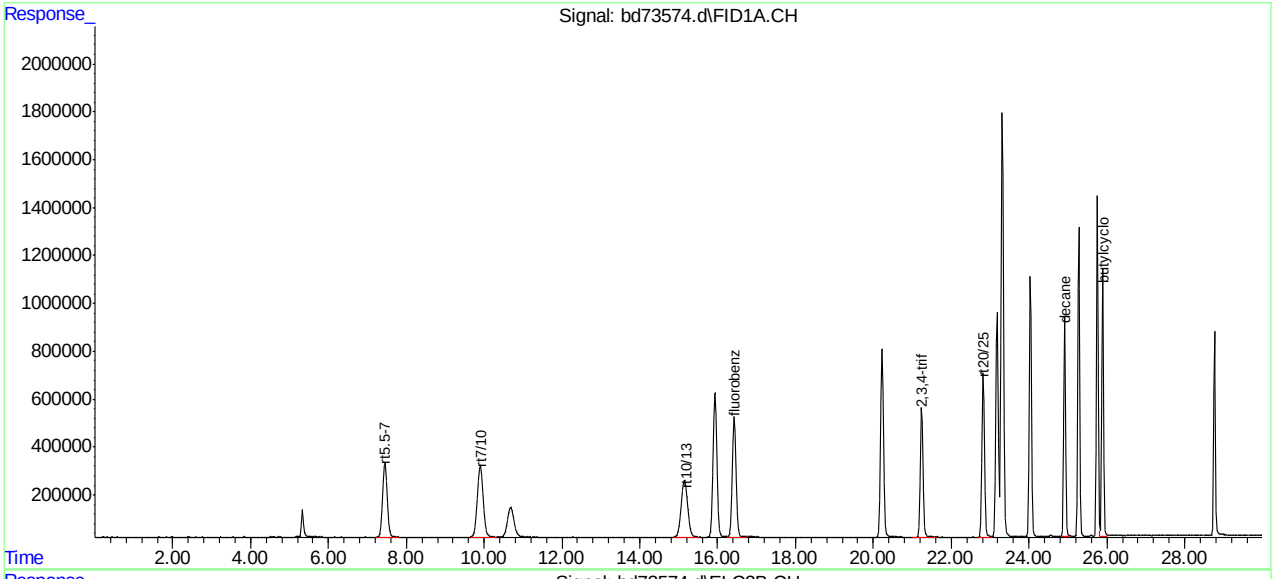
SGS ACCUTEST MC45897

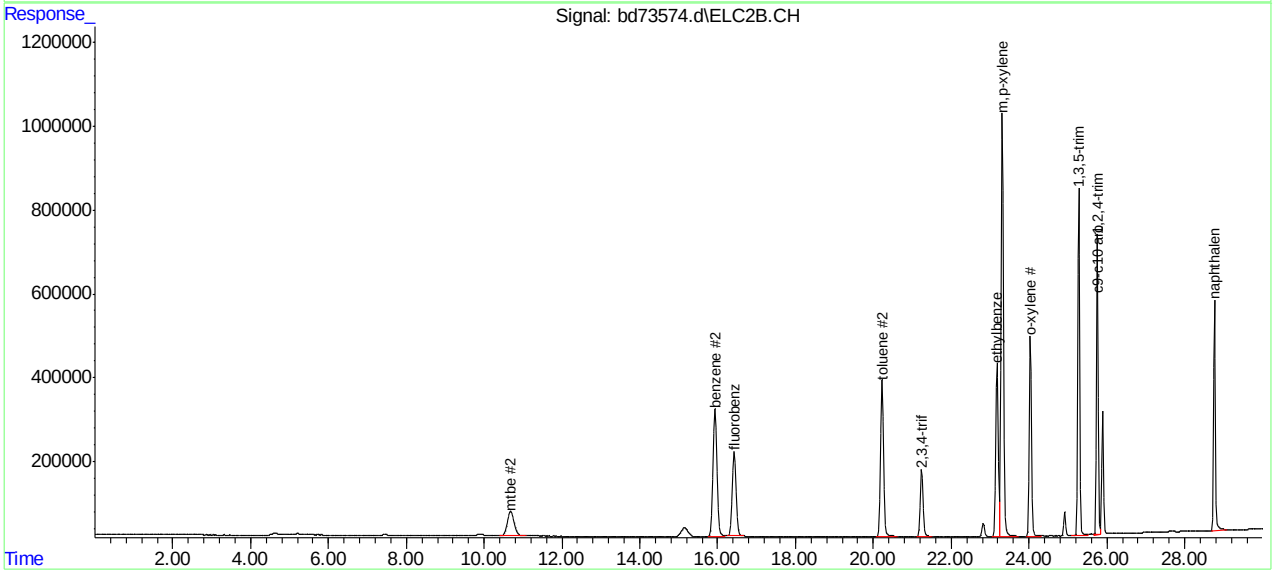
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73574.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 09:15:09
Operator : tonyf
Sample : cc3572-50
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

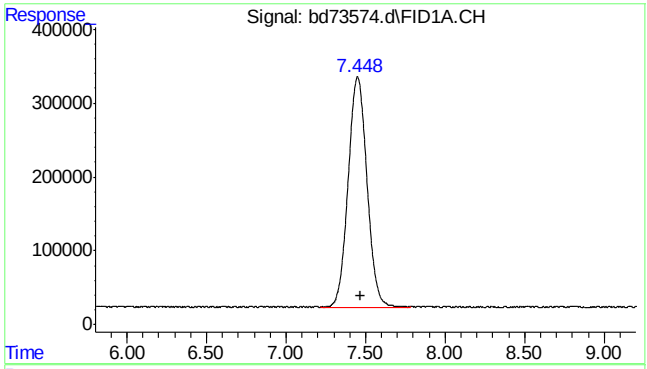
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 09:52:24 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



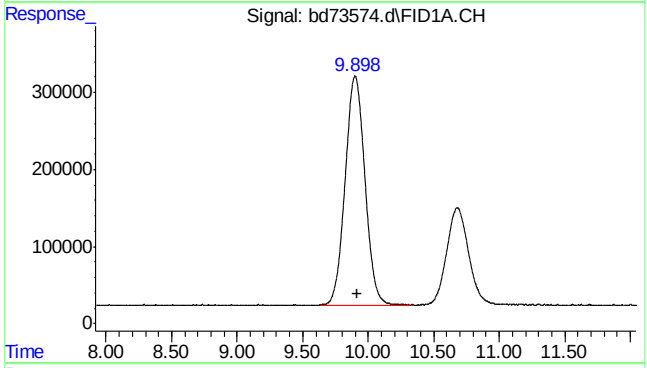


SGS ACCUTEST MC45897



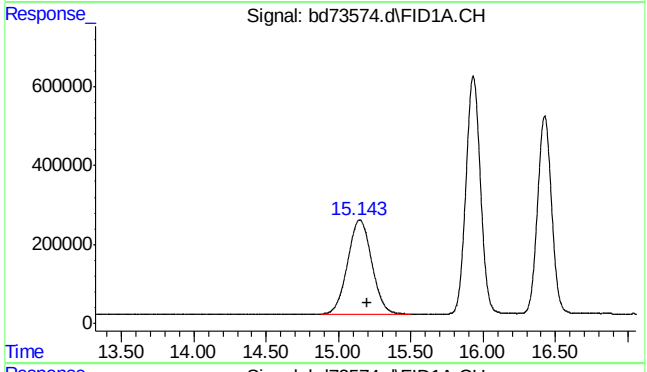
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 25693784
Conc: 41.66 ppb m



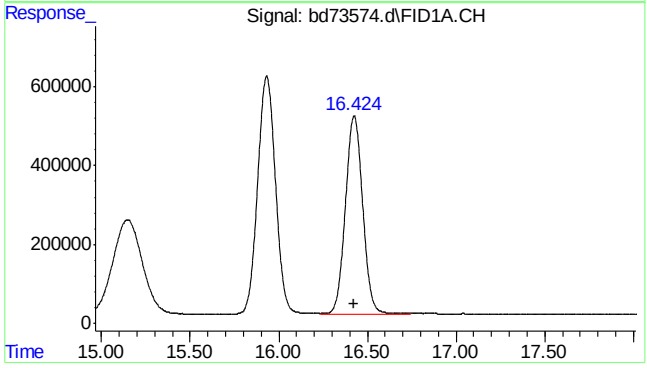
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 31403437
Conc: 50.92 ppb m



#3 rt10/13

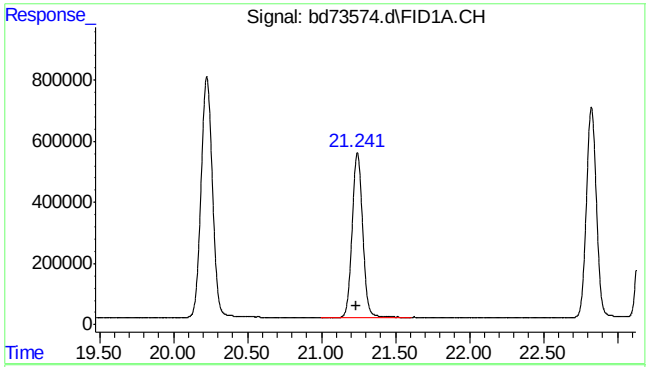
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 27691191
Conc: 44.90 ppb m



#4 fluorobenzene

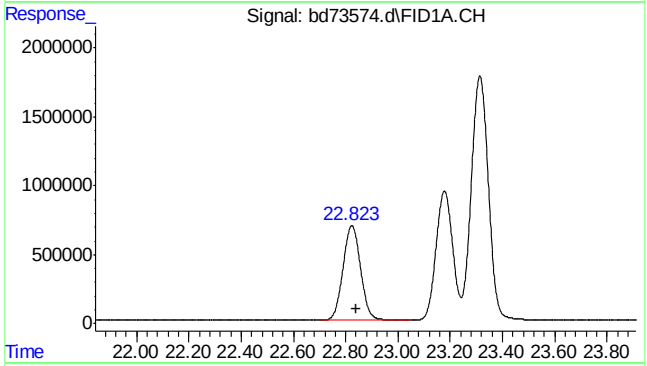
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 34338133
Conc: 50.47 ppb

SGS ACCUTEST MC45897



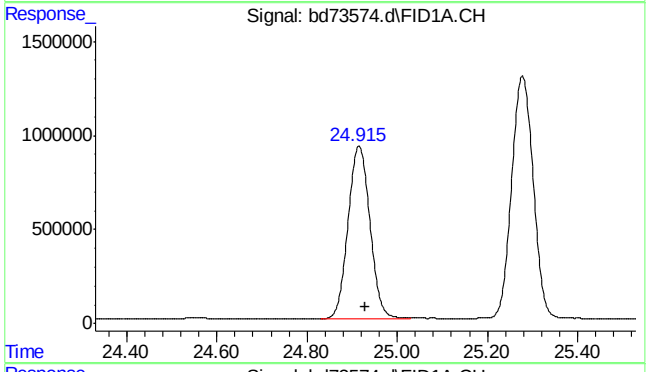
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 26563890
Conc: 50.99 ppb



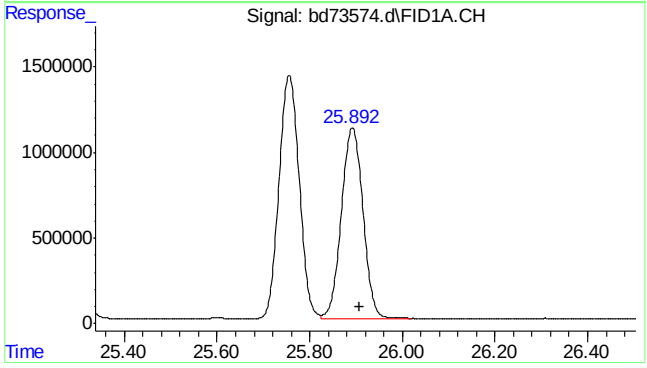
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 32349149
Conc: 40.43 ppb m



#10 decane

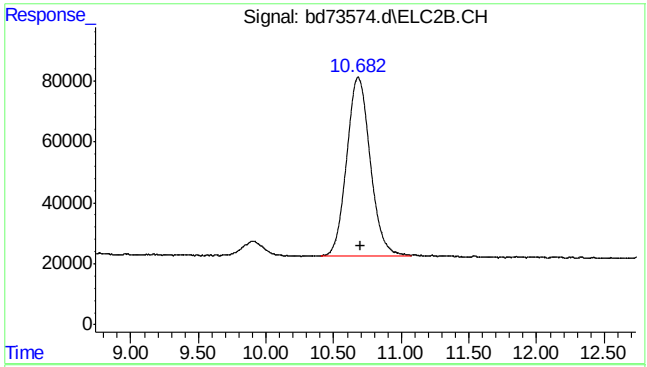
R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 31199112
Conc: 38.99 ppb



#11 butylcyclohexane

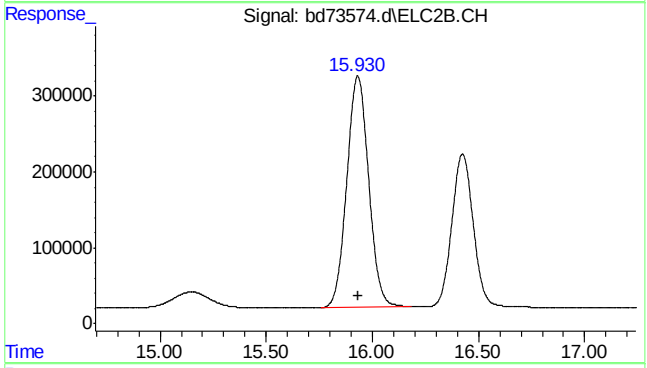
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 36311807
Conc: 45.38 ppb m

SGS ACCUTEST MC45897



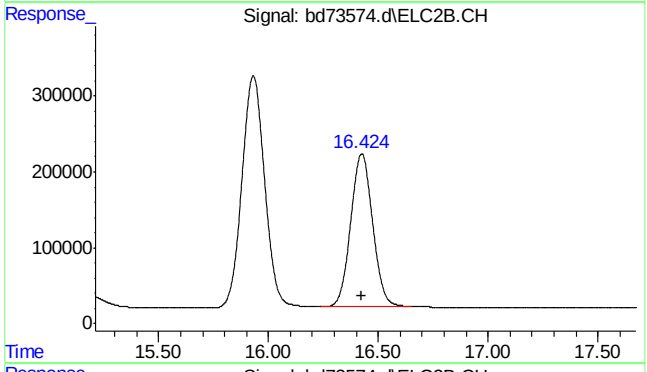
#14 mtbe #2

R.T.: 10.682 min
Delta R.T.: -0.014 min
Response: 7152095
Conc: 46.41 ppb m



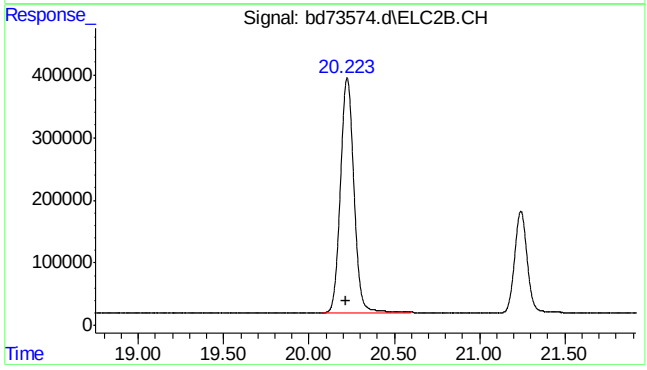
#15 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 21883284
Conc: 45.25 ppb



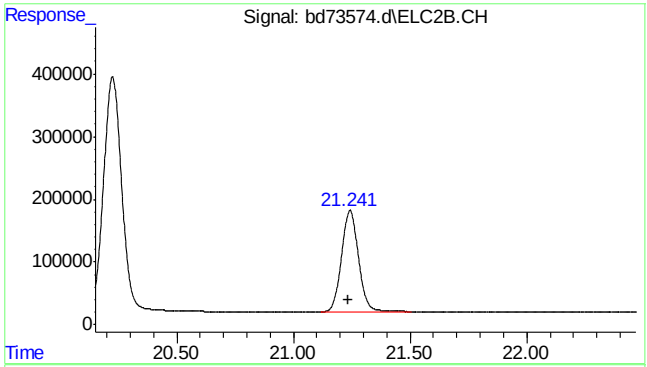
#16 fluorobenzene #2

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 13999345
Conc: 41.27 ppb



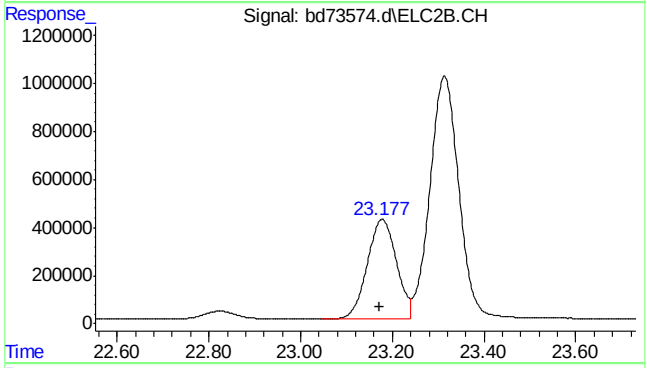
#17 toluene #2

R.T.: 20.224 min
Delta R.T.: 0.003 min
Response: 20561422
Conc: 45.42 ppb



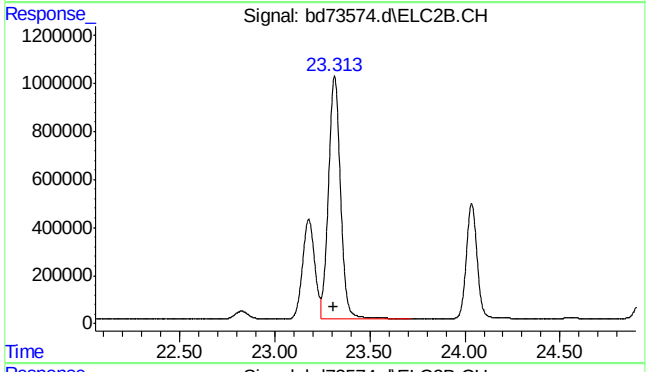
#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8205517
Conc: 41.68 ppb



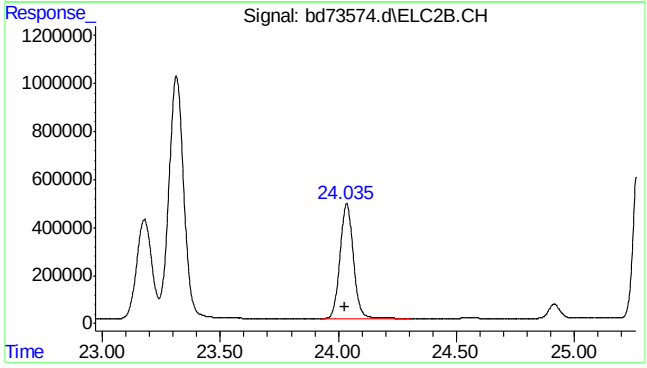
#19 ethylbenzene #2

R.T.: 23.178 min
Delta R.T.: 0.006 min
Response: 18301344
Conc: 44.10 ppb



#20 m,p-xylene #2

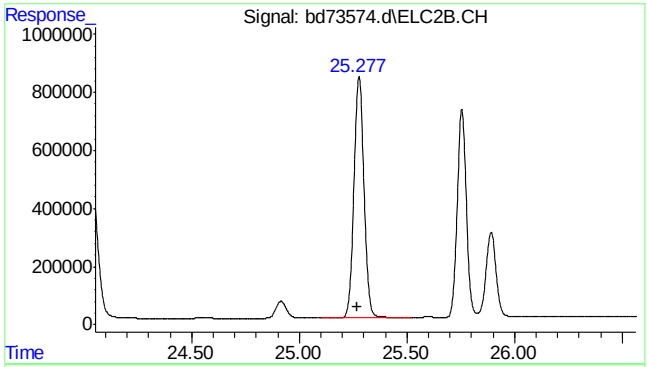
R.T.: 23.314 min
Delta R.T.: 0.007 min
Response: 44396053
Conc: 89.07 ppb



#21 o-xylene #2

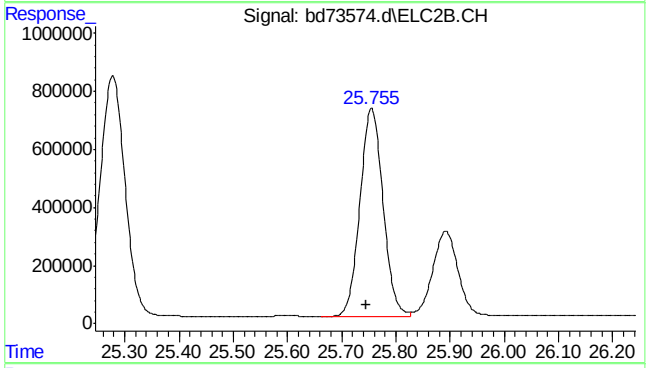
R.T.: 24.036 min
Delta R.T.: 0.008 min
Response: 18748896
Conc: 43.12 ppb

SGS ACCUTEST MC45897



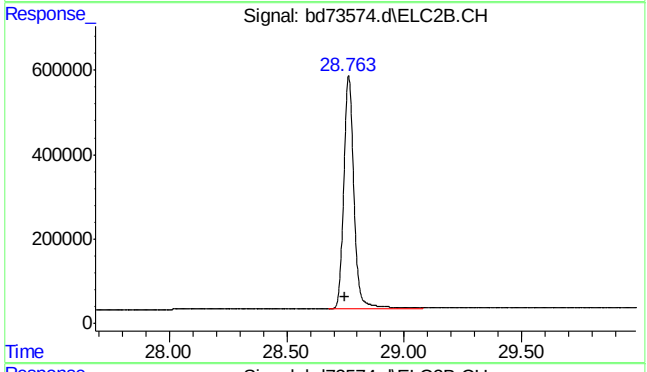
#22 1,3,5-trimethylbenzene #2

R.T.: 25.278 min
Delta R.T.: 0.010 min
Response: 27039299
Conc: 40.30 ppb



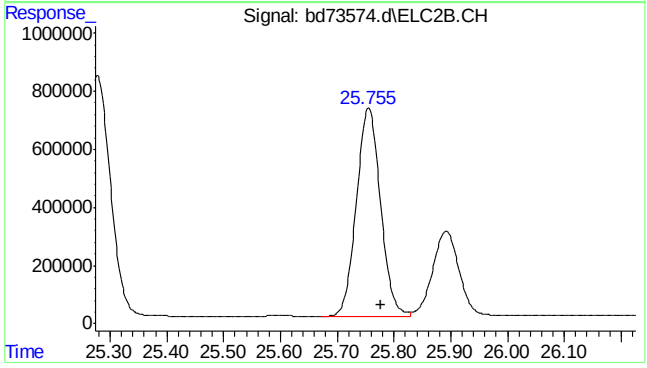
#23 1,2,4-trimethylbenzene #2

R.T.: 25.755 min
Delta R.T.: 0.009 min
Response: 21185226
Conc: 43.07 ppb



#24 naphthalene #2

R.T.: 28.763 min
Delta R.T.: 0.013 min
Response: 16555644
Conc: 45.96 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21205136
Conc: 43.13 ppb m

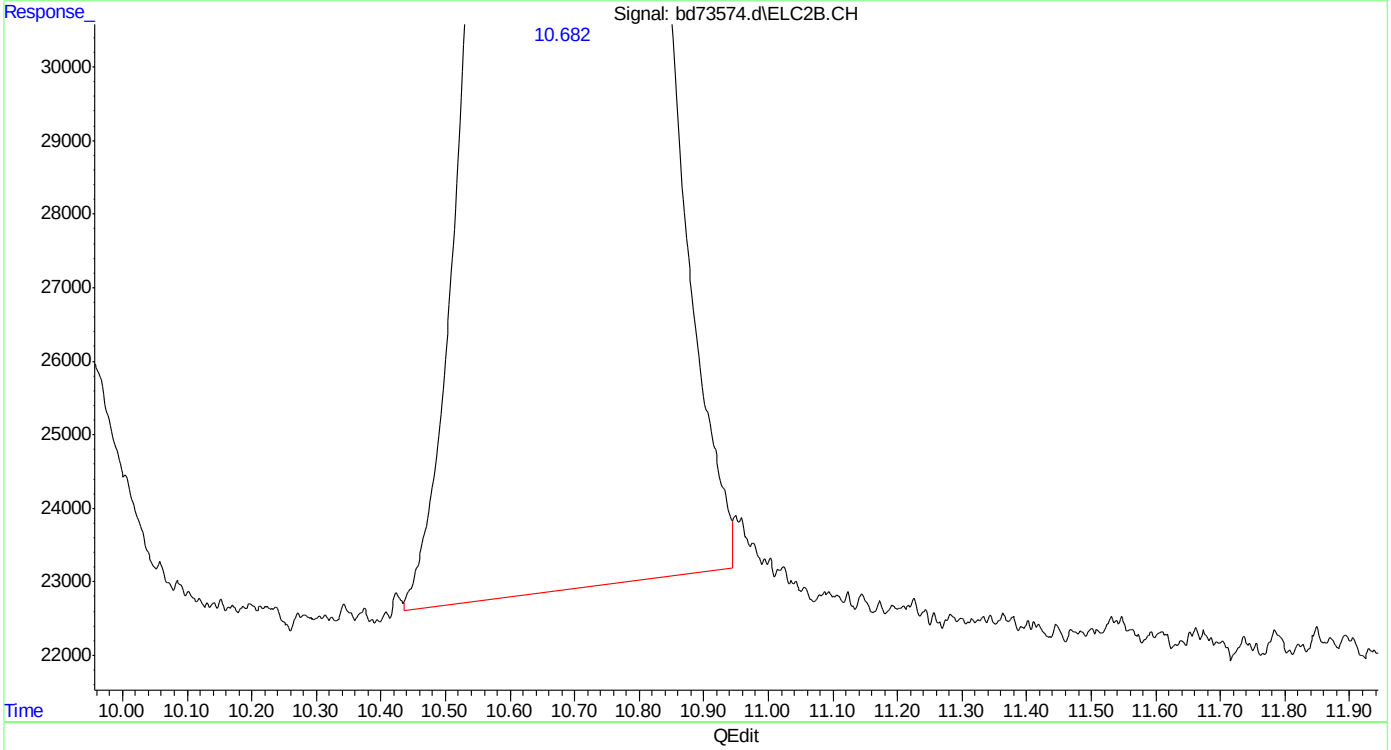
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73574.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 09:15:09
Operator : tonyf
Sample : cc3572-50
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 09:51:21 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.683min 45.128 ppb
response 6954579

(+) = Expected Retention Time
bd160516vph.M Mon May 16 09:51:56 2016

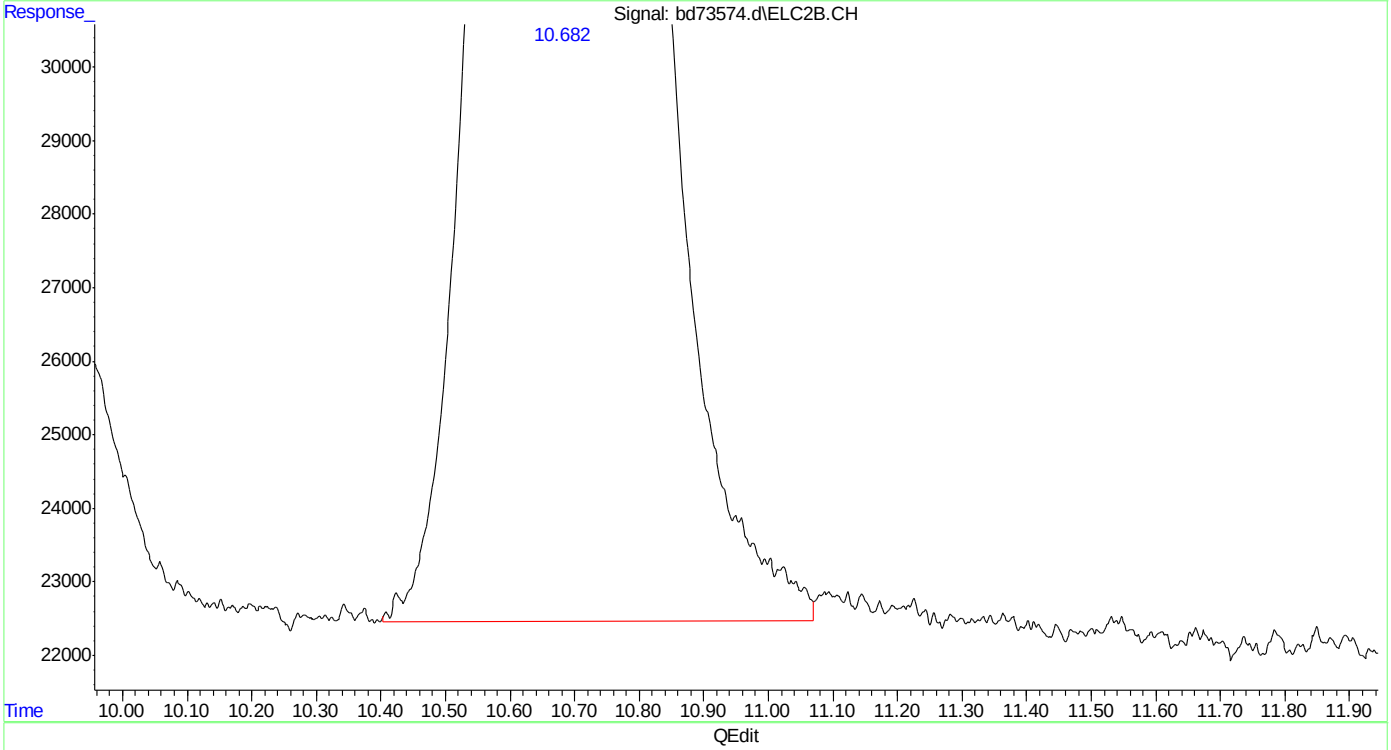
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73574.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 16-May-16, 09:15:09
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26239,gbd3636,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 09:51:21 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(14) mtbe #2

10.682min 46.410 ppb m

response 7152095

(+) = Expected Retention Time

bd160516vph.M Mon May 16 09:52:01 2016

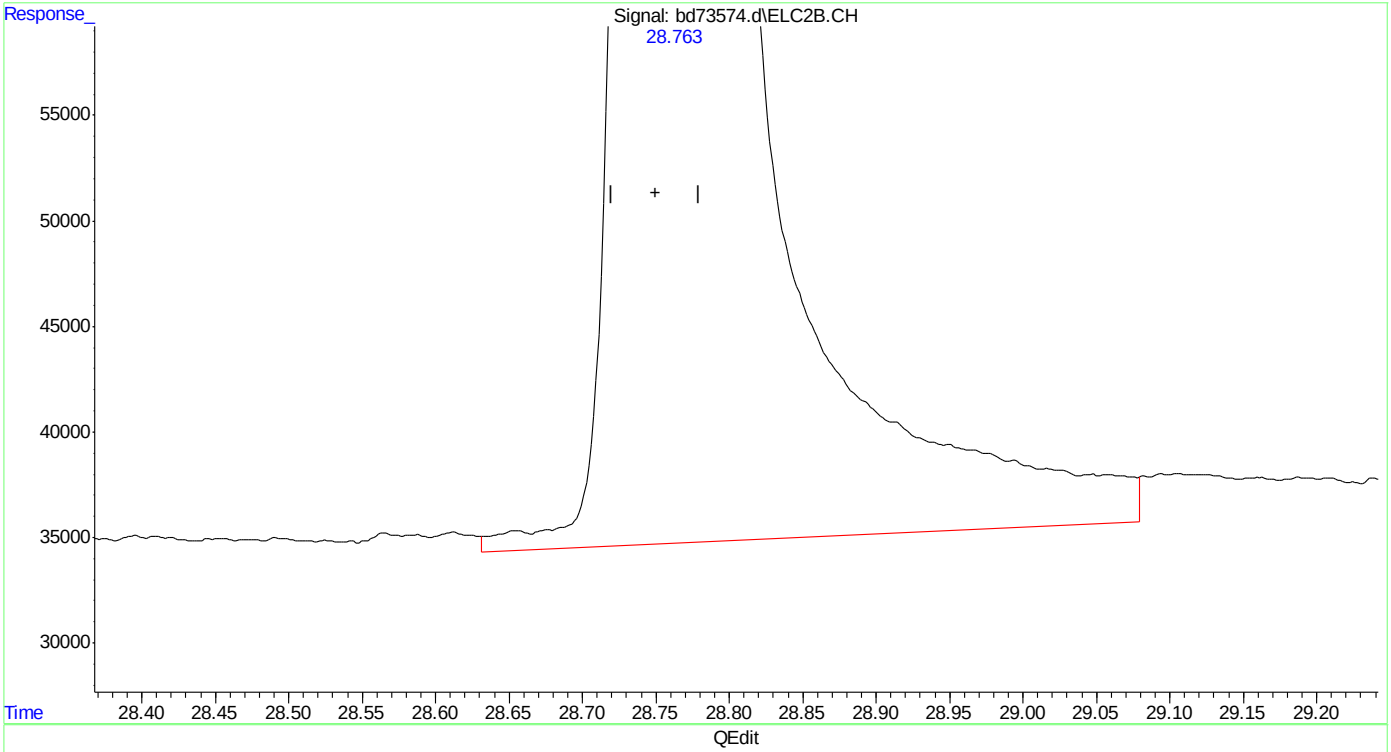
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73574.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 16-May-16, 09:15:09
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26239,gbd3636,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 16 09:51:21 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.764min 46.610 ppb

response 16792824

(+) = Expected Retention Time

bd160516vph.M Mon May 16 09:52:16 2016

SGS ACCUTEST MC45897

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/17/16 09:47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 21:47:58
Operator : tonyf
Sample : cc3572-50
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 17 06:36:42 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units	
System Monitoring Compounds				
4) s fluorobenzene	16.424	35810614	52.631 ppb	
Spiked Amount 50.000		Recovery	= 105.26%	
6) s 2,3,4-trifluorotoluene	21.240	27515032	52.811 ppb	
Spiked Amount 50.000		Recovery	= 105.62%	
16) s fluorobenzene #2	16.424	14858943	43.799 ppb	
Spiked Amount 50.000		Recovery	= 87.60%	
18) s 2,3,4-trifluorotoluen...	21.240	8403517	42.689 ppb	
Spiked Amount 50.000		Recovery	= 85.38%	
Target Compounds				
1) h rt5.5-7	7.470	26084450	42.294 ppb	m
2) h rt7/10	9.920	31867968	51.671 ppb	m
3) h rt10/13	15.200	27089350	43.923 ppb	m
8) h rt20/25	22.840	31799166	39.738 ppb	m
10) h decane	24.930	29548685	36.926 ppb	
11) h butylcyclohexane	25.908	34183937	42.718 ppb	m
14) mtbe #2	10.681	7664834	49.737 ppb	m
15) benzene #2	15.930	22937534	47.430 ppb	
17) toluene #2	20.223	21433285	47.344 ppb	
19) ethylbenzene #2	23.175	19062383	45.932 ppb	
20) m,p-xylene #2	23.311	46268758	92.827 ppb	
21) o-xylene #2	24.033	19453377	44.742 ppb	
22) t 1,3,5-trimethylbenzen...	25.275	27598055	41.128 ppb	
23) 1,2,4-trimethylbenzen...	25.753	21688839	44.094 ppb	
24) naphthalene #2	28.759	17703145	49.106 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21653991	44.044 ppb	m

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

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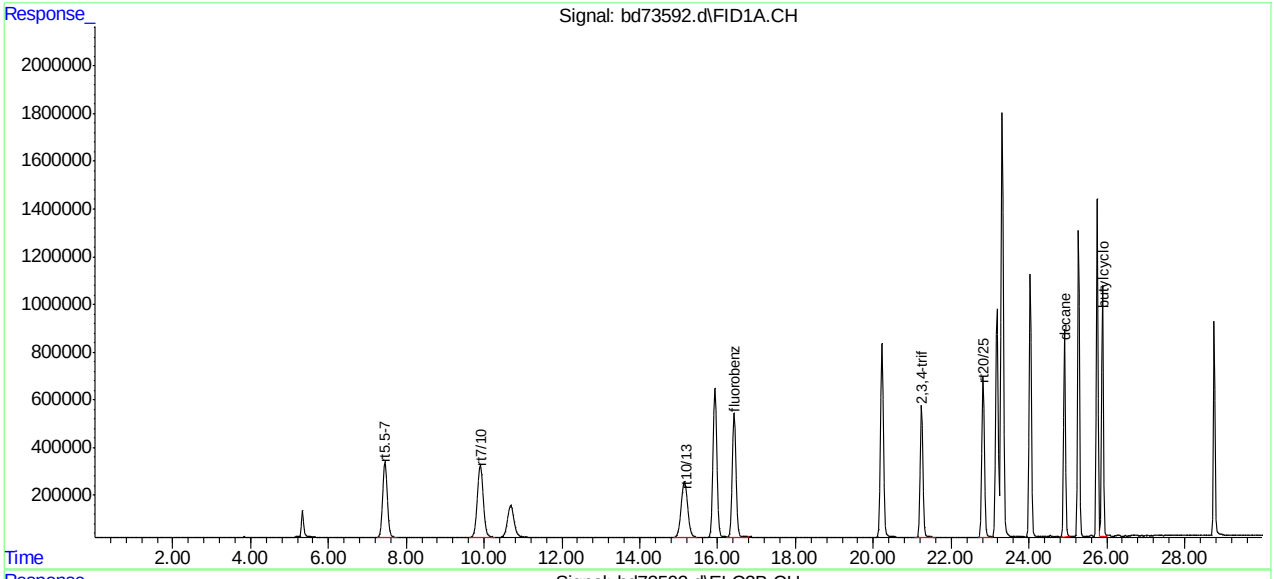
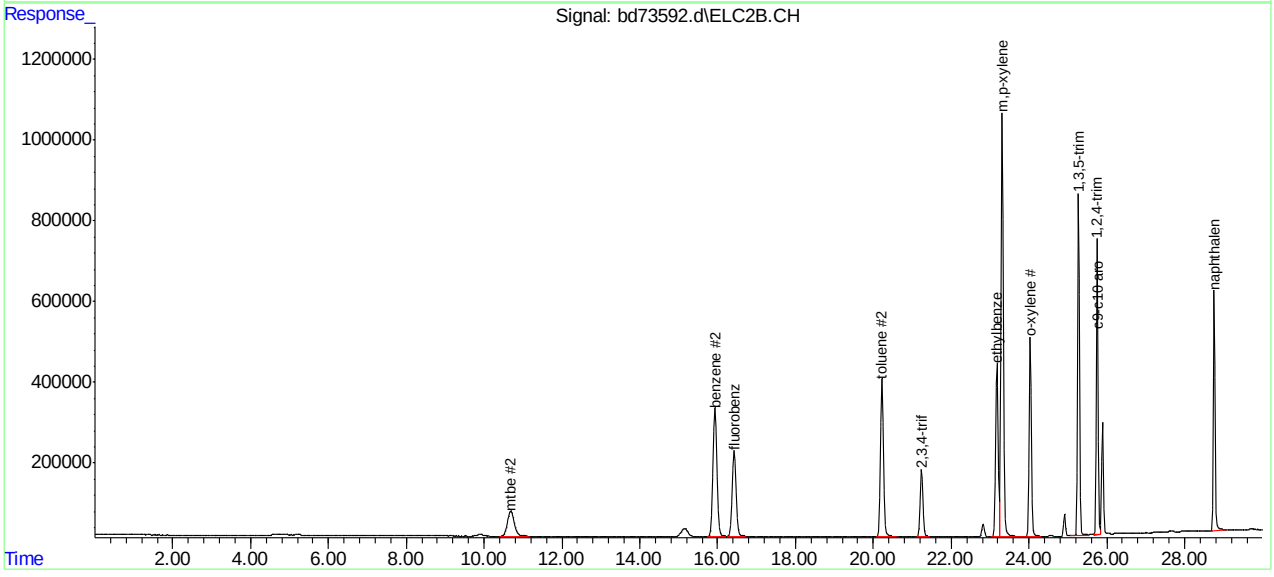
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 21:47:58
Operator : tonyf
Sample : cc3572-50
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

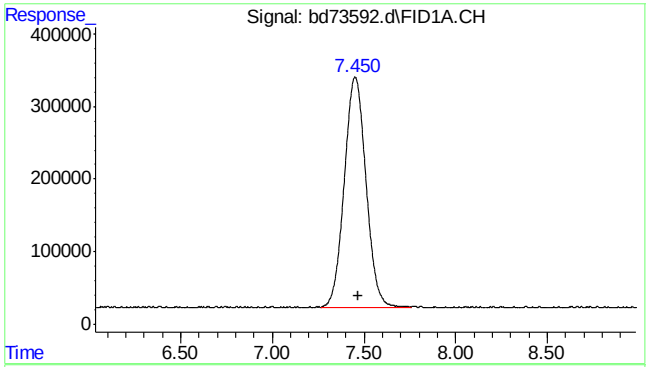
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 17 06:36:42 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



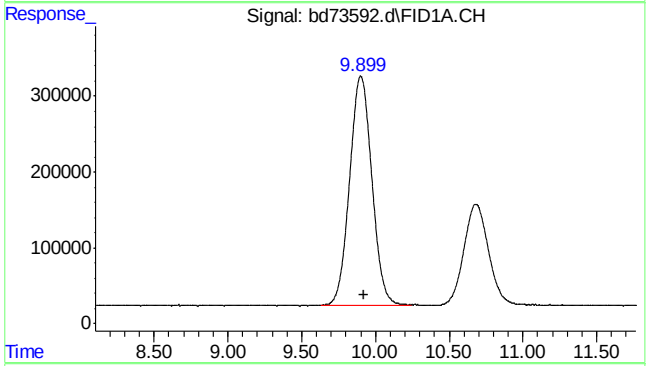


SGS ACCUTEST MC45897



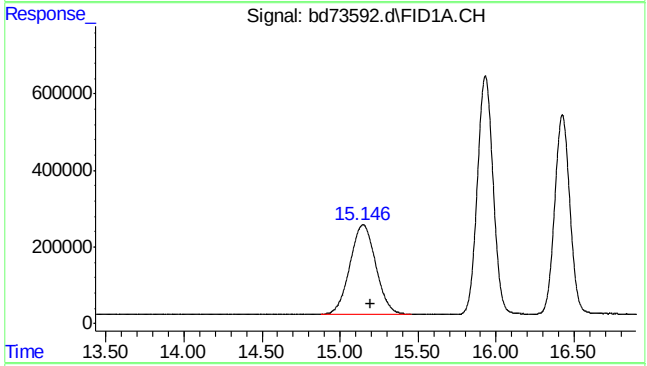
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 26084450
Conc: 42.29 ppb m



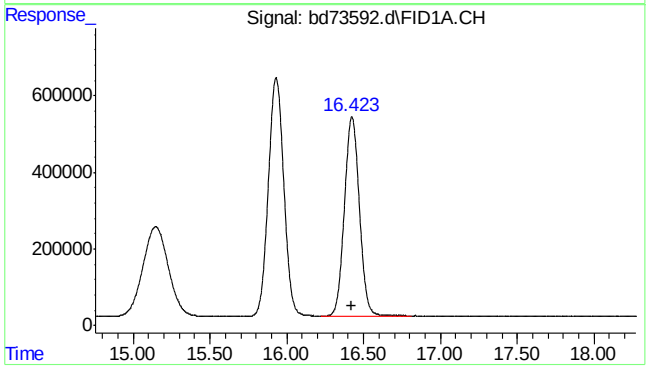
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 31867968
Conc: 51.67 ppb m



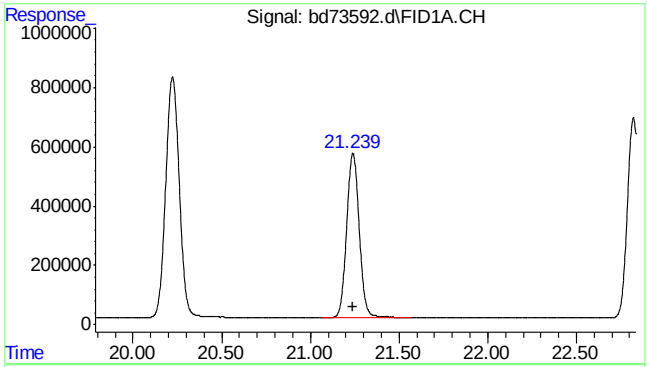
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 27089350
Conc: 43.92 ppb m



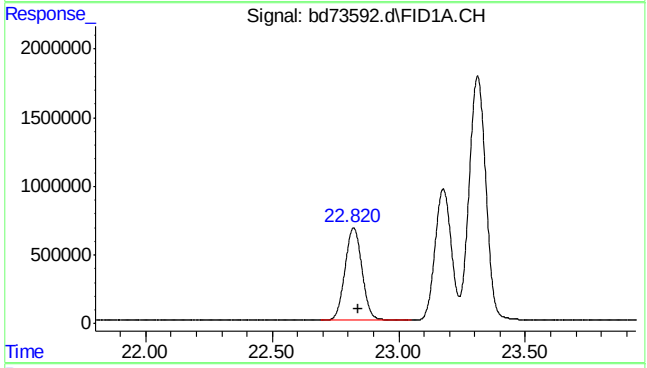
#4 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 35810614
Conc: 52.63 ppb



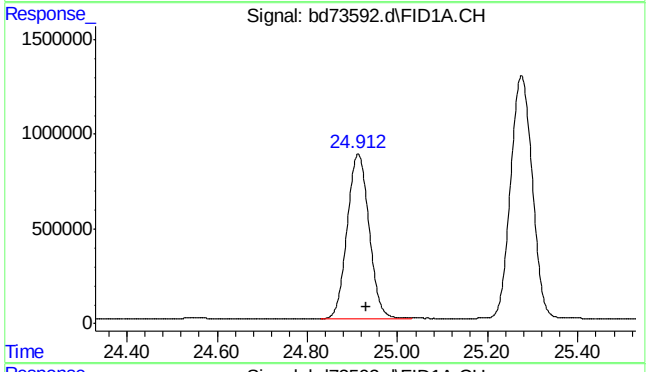
#6 2,3,4-trifluorotoluene

R.T.: 21.240 min
Delta R.T.: 0.003 min
Response: 27515032
Conc: 52.81 ppb



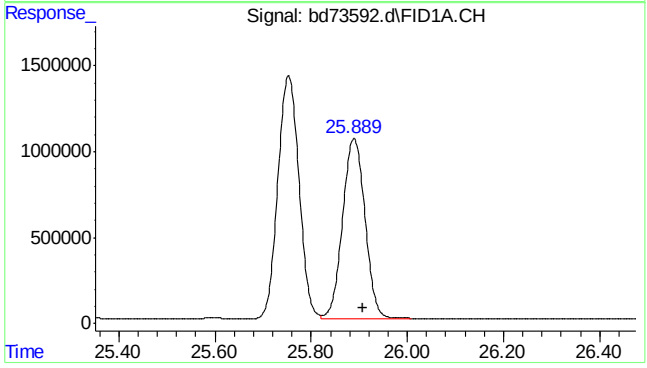
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 31799166
Conc: 39.74 ppb m



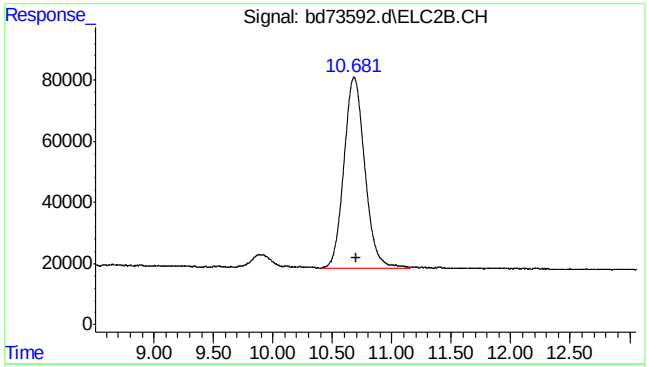
#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 29548685
Conc: 36.93 ppb



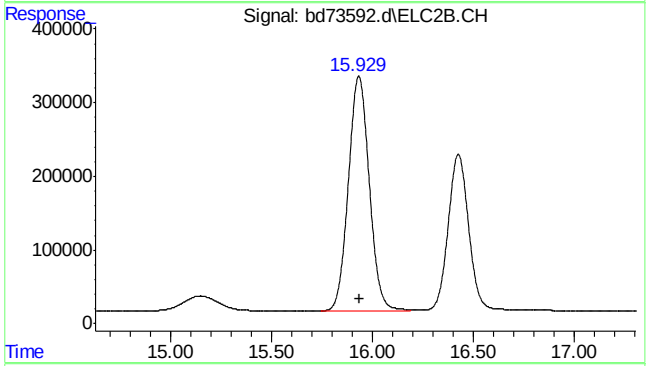
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 34183937
Conc: 42.72 ppb m



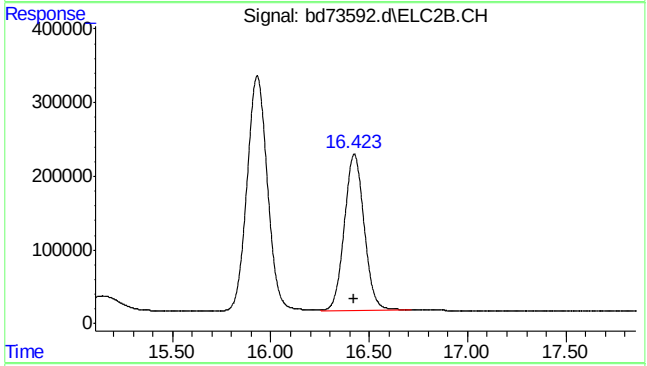
#14 mtbe #2

R.T.: 10.681 min
Delta R.T.: -0.015 min
Response: 7664834
Conc: 49.74 ppb m



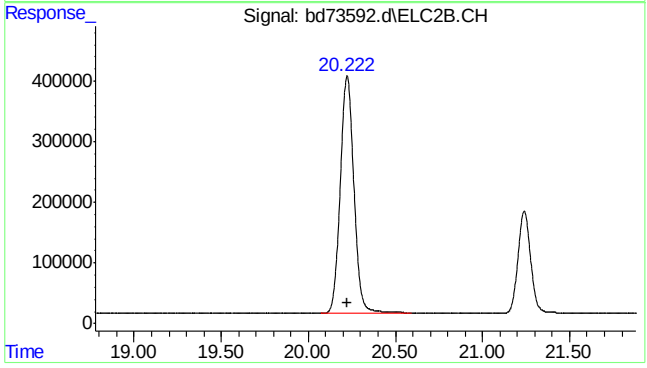
#15 benzene #2

R.T.: 15.930 min
Delta R.T.: -0.002 min
Response: 22937534
Conc: 47.43 ppb



#16 fluorobenzene #2

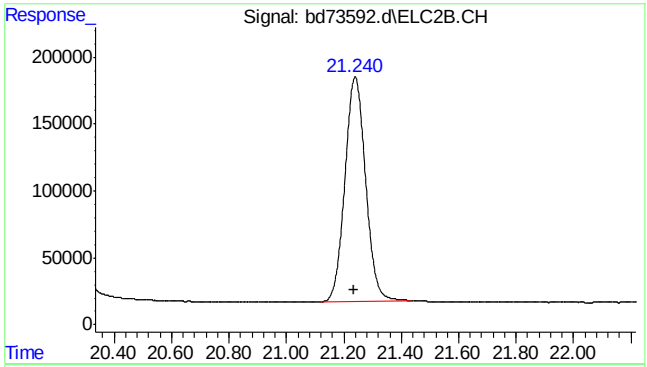
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 14858943
Conc: 43.80 ppb



#17 toluene #2

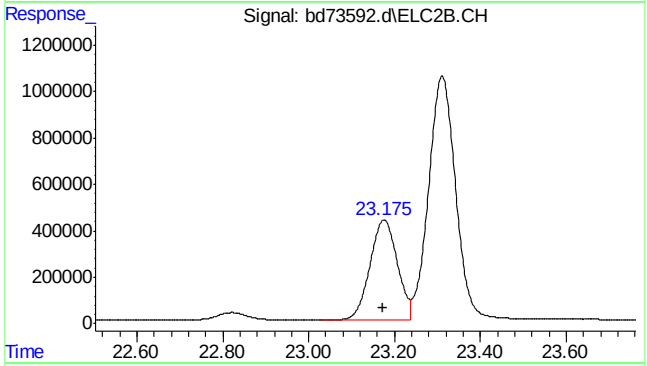
R.T.: 20.223 min
Delta R.T.: 0.002 min
Response: 21433285
Conc: 47.34 ppb

SGS ACCUTEST MC45897



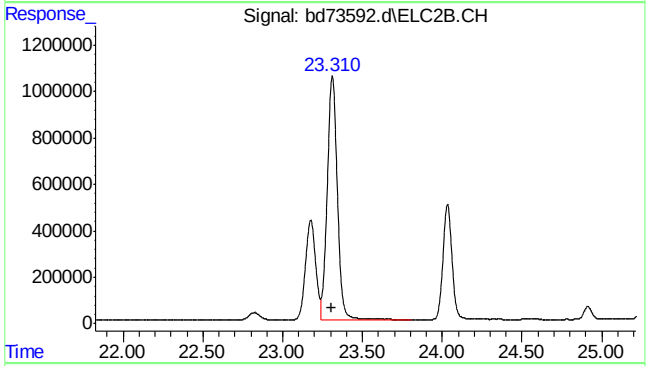
#18 2,3,4-trifluorotoluene #2

R.T.: 21.240 min
Delta R.T.: 0.003 min
Response: 8403517
Conc: 42.69 ppb



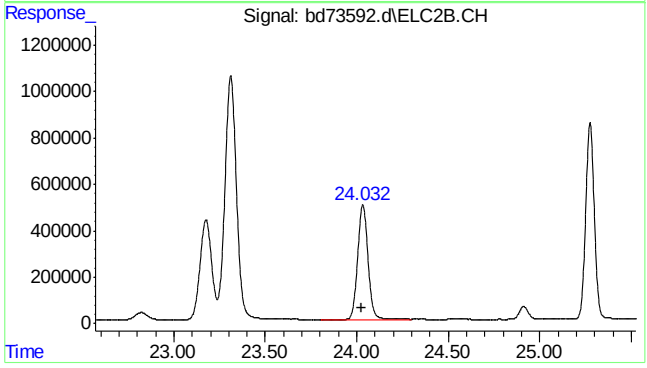
#19 ethylbenzene #2

R.T.: 23.175 min
Delta R.T.: 0.003 min
Response: 19062383
Conc: 45.93 ppb



#20 m,p-xylene #2

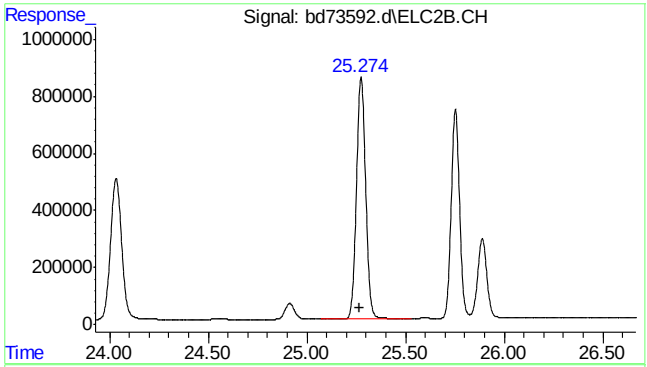
R.T.: 23.311 min
Delta R.T.: 0.004 min
Response: 46268758
Conc: 92.83 ppb



#21 o-xylene #2

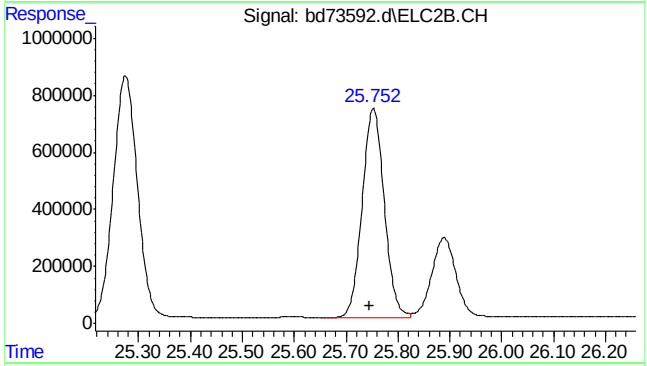
R.T.: 24.033 min
Delta R.T.: 0.005 min
Response: 19453377
Conc: 44.74 ppb

SGS ACCUTEST MC45897



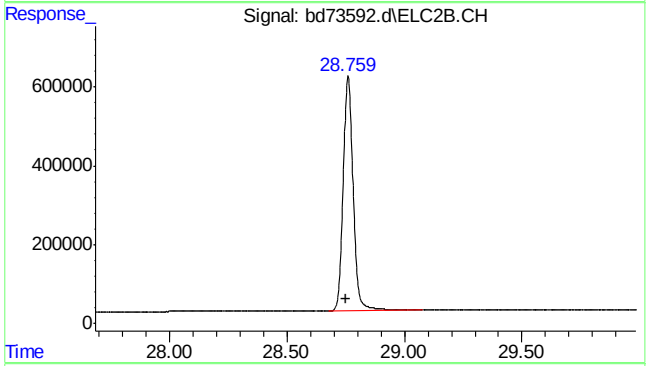
#22 1,3,5-trimethylbenzene #2

R.T.: 25.275 min
Delta R.T.: 0.007 min
Response: 27598055
Conc: 41.13 ppb



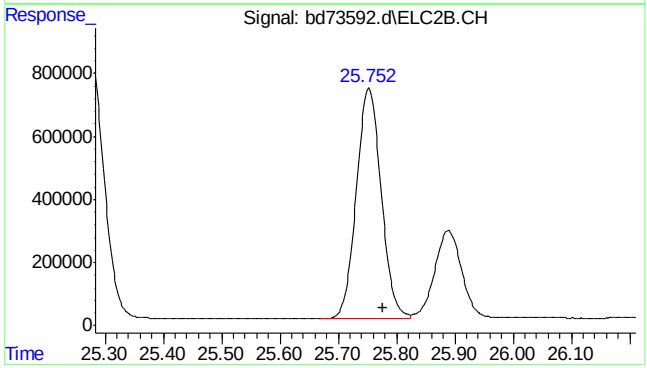
#23 1,2,4-trimethylbenzene #2

R.T.: 25.753 min
Delta R.T.: 0.007 min
Response: 21688839
Conc: 44.09 ppb



#24 naphthalene #2

R.T.: 28.759 min
Delta R.T.: 0.009 min
Response: 17703145
Conc: 49.11 ppb m



#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21653991
Conc: 44.04 ppb m

7.5.15

7

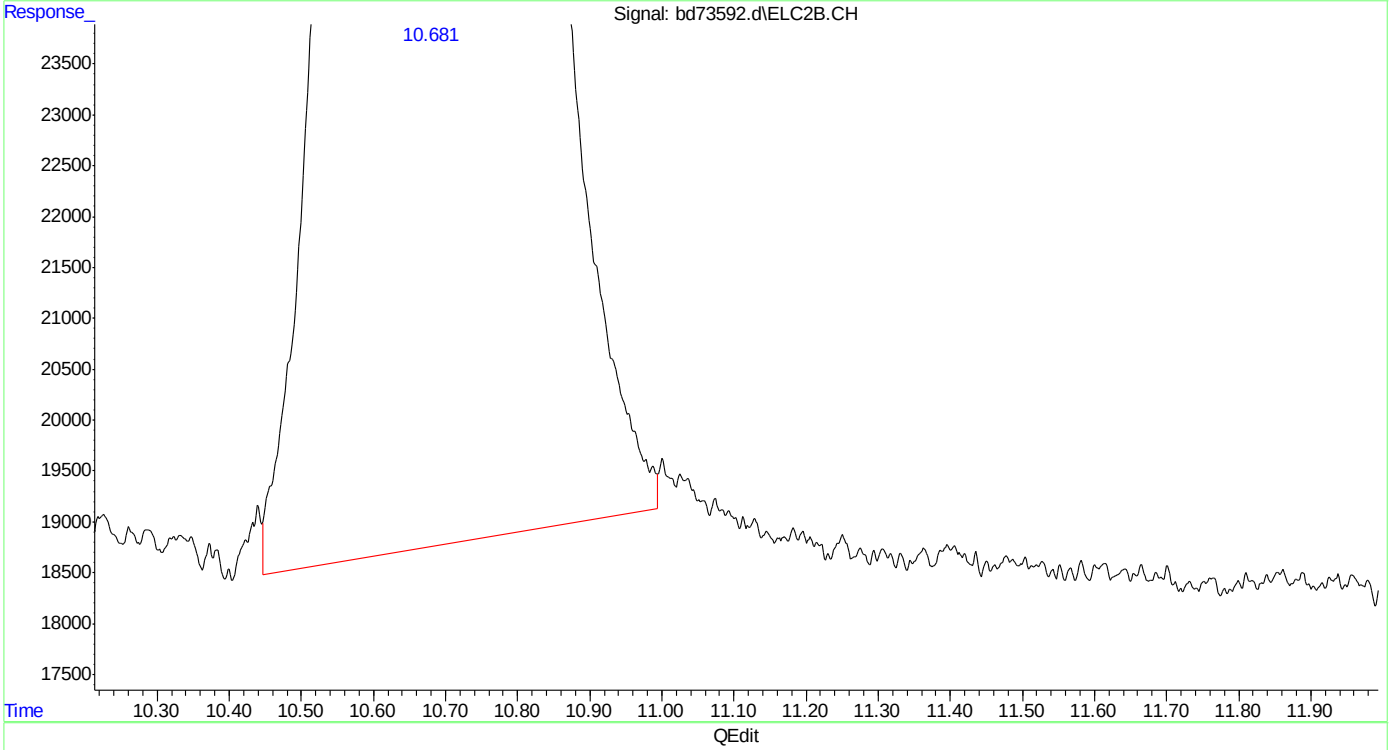
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 21:47:58
Operator : tonyf
Sample : cc3572-50
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 17 06:34:16 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.682min 48.450 ppb
response 7466569

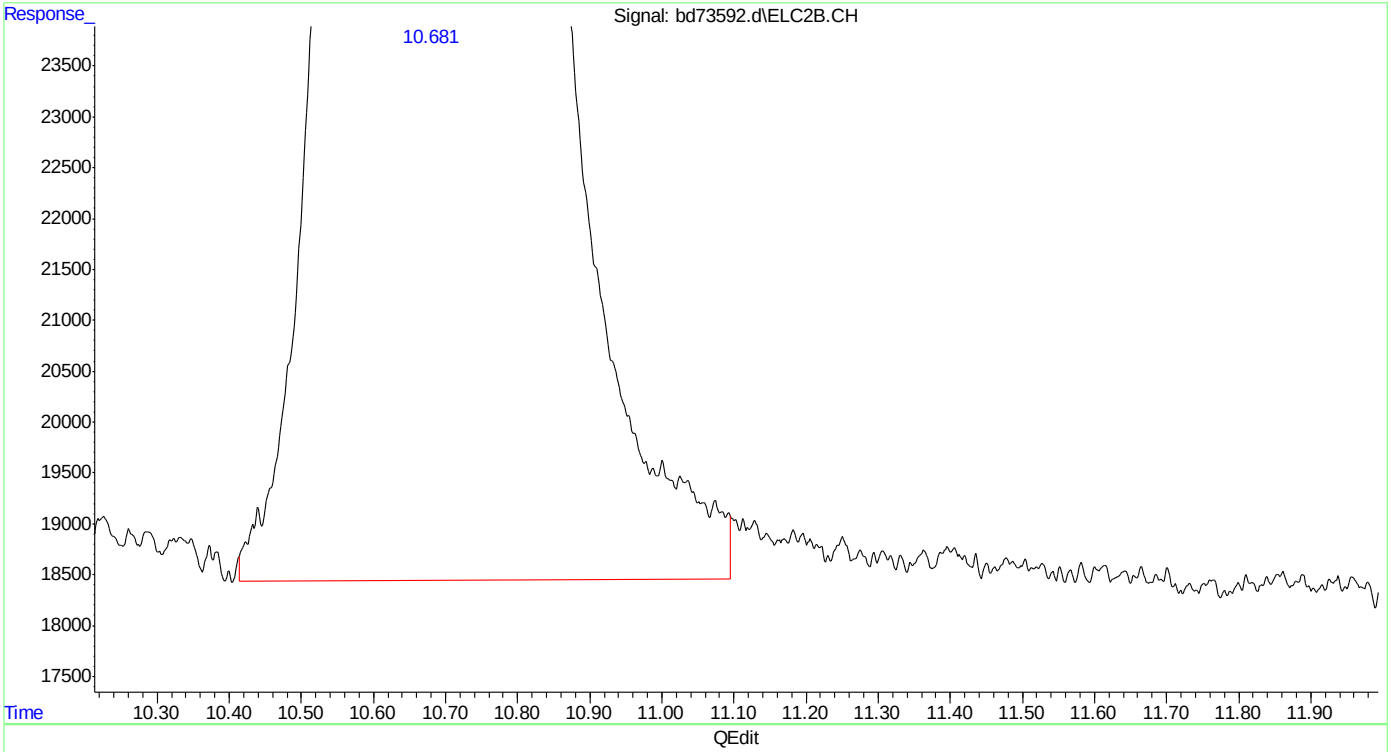
(+) = Expected Retention Time
bd160516vph.M Tue May 17 06:34:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 21:47:58
Operator : tonyf
Sample : cc3572-50
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 17 06:34:16 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.681min 49.594 ppb m
response 7642823

(+) = Expected Retention Time
bd160516vph.M Tue May 17 06:35:07 2016

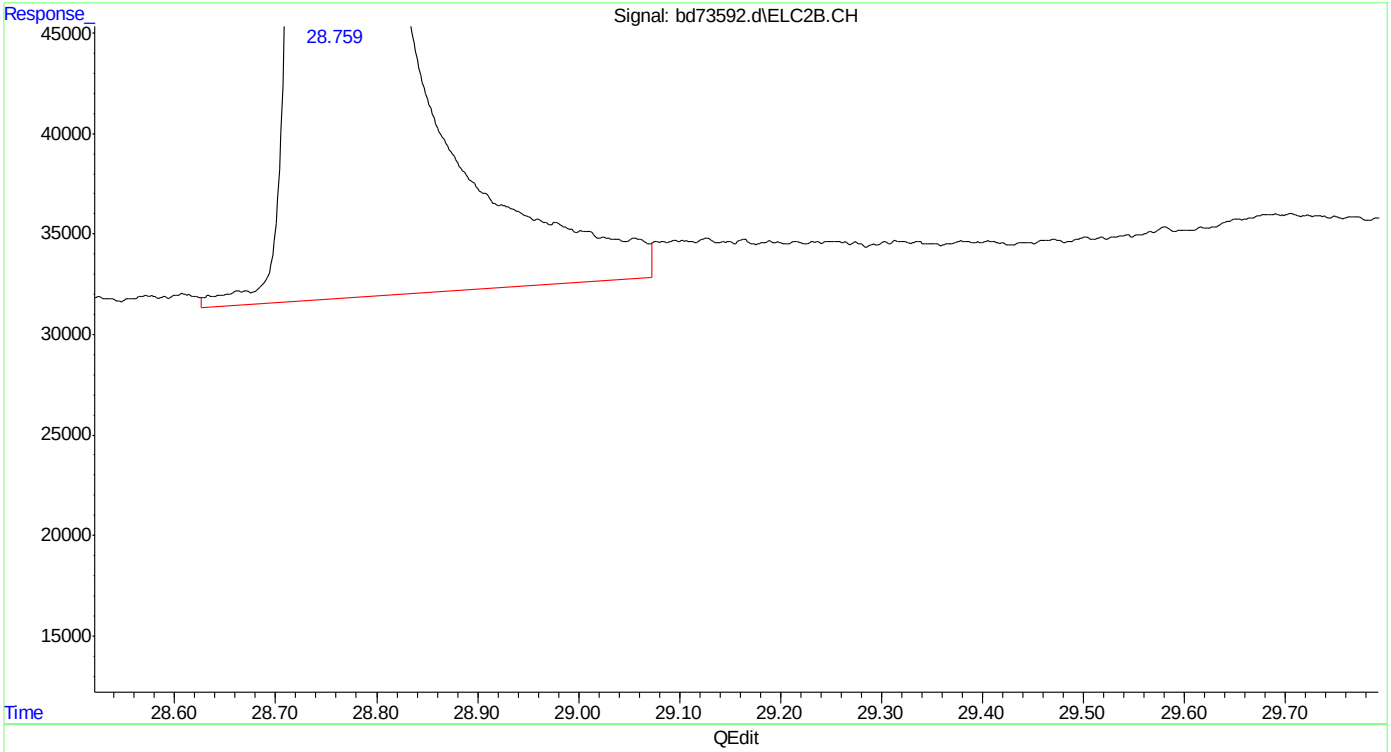
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 21:47:58
Operator : tonyf
Sample : cc3572-50
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 17 06:34:16 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.760min 49.690 ppb
response 17915929

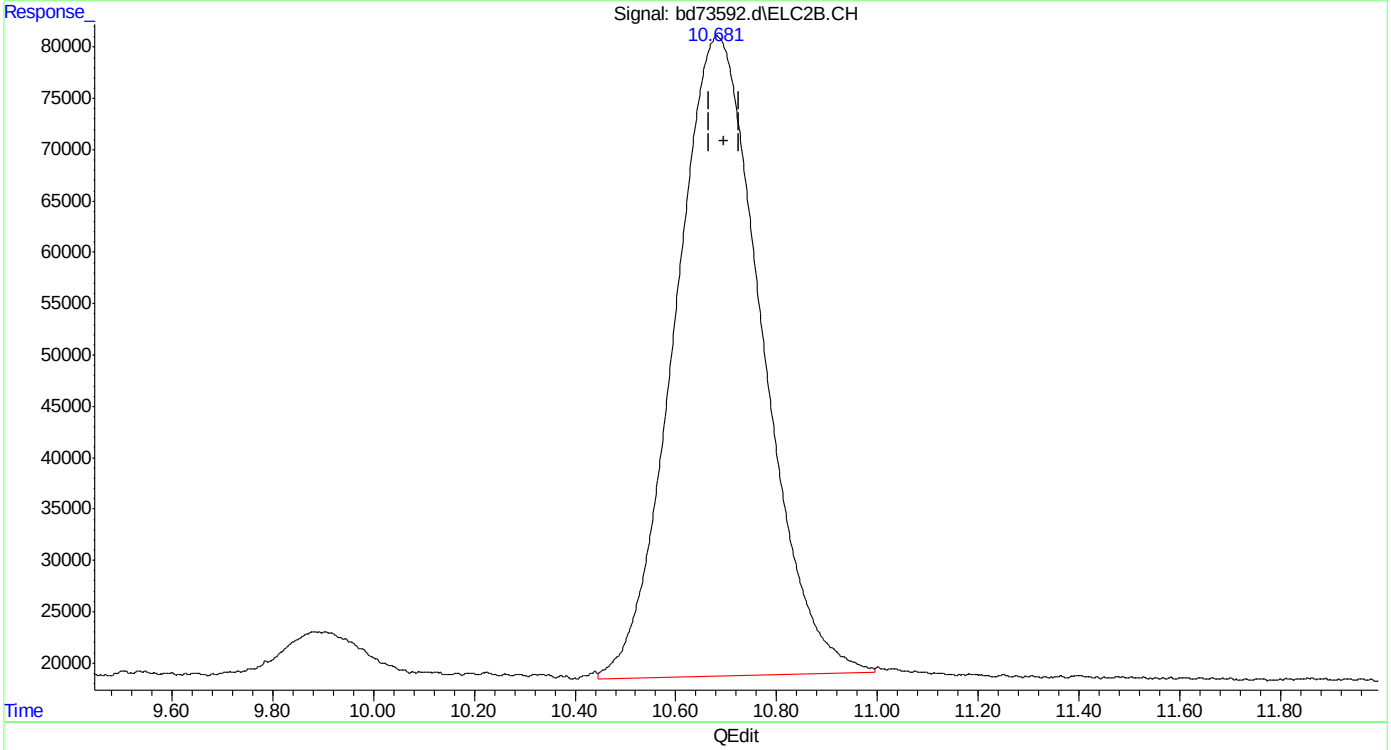
(+) = Expected Retention Time
bd160516vph.M Tue May 17 06:35:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 21:47:58
Operator : tonyf
Sample : cc3572-50
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 17 06:34:16 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) mtbe #2
10.682min 48.450 ppb
response 7466569

(+) = Expected Retention Time
bd160516vph.M Tue May 17 06:36:18 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 21:47:58
Operator : tonyf
Sample : cc3572-50
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 17 06:34:16 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

(14) mtbe #2
10.681min 49.737 ppb m
response 7664834

(+) = Expected Retention Time
bd160516vph.M Tue May 17 06:36:26 2016

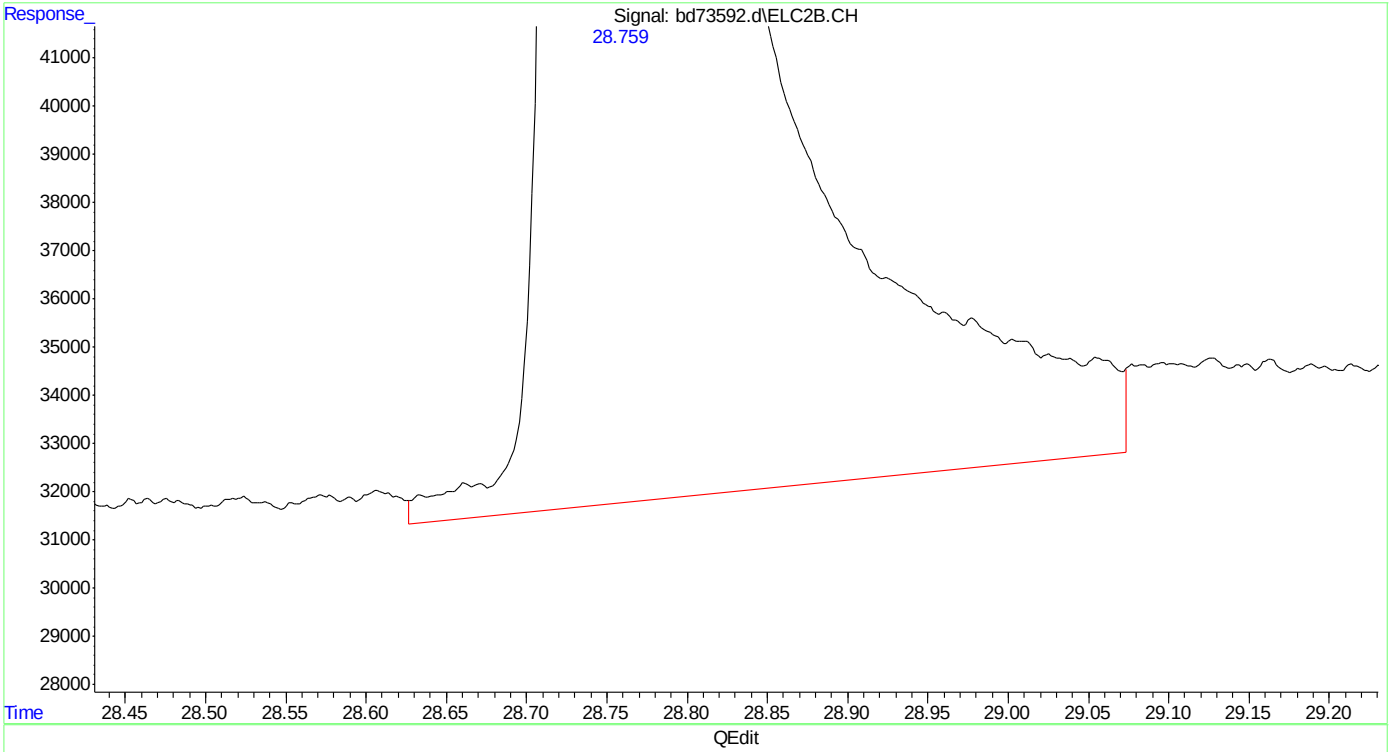
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 16-May-16, 21:47:58
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26239,gbd3636,,,,5,1
ALS Vial  : 18 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 17 06:34:16 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(24) naphthalene #2

28.760min 49.690 ppb

response 17915929

(+) = Expected Retention Time

bd160516vph.M Tue May 17 06:36:31 2016

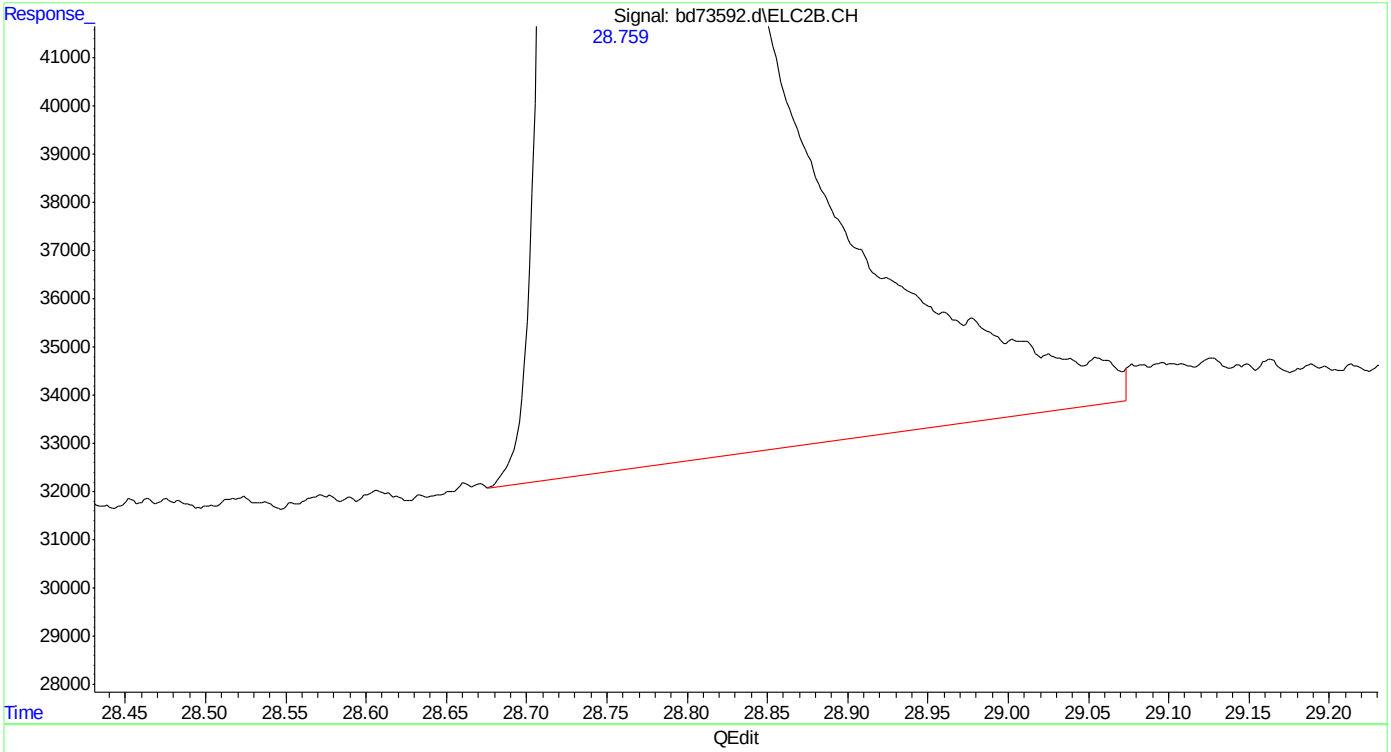
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160516\
Data File : bd73592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 16-May-16, 21:47:58
Operator : tonyf
Sample : cc3572-50
Misc : gc26239,gbd3636,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 17 06:34:16 2016
Quant Method : C:\msdchem\1\methods\bd160516vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
28.759min 49.106 ppb m
response 17703145

(+) = Expected Retention Time
bd160516vph.M Tue May 17 06:36:36 2016

SGS ACCUTEST MC45897

ACCUTEST LABORATORIES

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 2/19/16 Analyst Signature: aef

Standards Data

Lot #	Description	Conc
Vmaph Mix	qc 25978 gbd	~~3559~~ 3572
~~Mix~~		
Vmaph Soil	qc 25991 gbd	3573
Btxm Mix	25992 gbd	3574
qv16299	2ND Source std 50 ug/ml	3/3/16

Standards Data

Lot #	Description	Conc
qv16289	cc/bsp 250 ug/ml	3/5/16
qv16290	Sum	
qv16296	std 50/50 ug/ml	3/3/16
qv16297	5.0/5.0	
qv16298	1.0/1.0	

Column: mtx 502.2
Method: BD VPH1
GC Seq. File: BD 160219.5
Method Files:
BD 160219 in-stea
~~qc~~ BD160219VPH cc 3572-50
AB Seq. File: 1-1 2-3 1-1 2-11

Date of ICAL: 2-19-16 ICAL Verified: Seq. Verification: 12-12

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
bd 73,680	icv 3572-1000	N/A	qc 25978	Vmaph	1	W	100 ml qv16	296/5 ml FJ	N/A	N/A	50/50 ug/ml std
81	-500				2		50 ul				
82	-250				3		25 ul				
83	-100				4		10 ul				
84	icc 3572-50				5		5 ul				
85	ic 3572-10				6		10 ul qv16	297 / 5 ml FJ			5.0/5.0 std ug/ml
86	-5				7		5 ul				
87	-2				8		10 ul qv	16298			1.0/1.0 ug/ml std
88	-1				9		5 ul				
89	icv 3572-50				10		5 ul qv	16299		OK	2nd source 50 ug/ml std
90 *	cc 3572-50	N/A			1	W	1 ml qv	16289			curve ck
91	mb				2	W	1 ml qv	16290		N/A	Naphthalene
92	bsp	not needed 2/22/16			3		1 ml qv	16289			linear regression
93	bsl				4						inverse conc.
94	clean				2	W	5 ml				
95	A mb Aq				3	W					
96	E mb Soil		btxm	VPH	4	S					
97	E 0.25 Soil		mc17863-25		5						
98	E 0.50 Soil		mc17863-55	mc11152-55	6						
99	A 0.50 Aq		mc17863-55	mc11152-25	7	W					
73,700	A 1.0 Aq		mc17865-85	mc11152-55	8						
01	E 1.0 Soil		mc17863-85	mc11152-85	9	S	mc11151-85				
02	2.0 Aq			mc11152-85	10	W					
03	5.0 Soil			mc11151-11	11	S					
04	cc 3572-50				12	W	1 ml qv16289				
*	do not Report sample not see bsp/bsl				Not	primed	Air	in	lines	low	2/19/16

GC001-06 Date: 1/02/15 Dilution Solvent:_____ Lot Number:_____ pH Paper Lot:_____ Review:_____

MTX = Matrix: Designate W for water, S for soil, O for oil. *Note: If sample matrix is soil - method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water.

** V8021btxm ~~Aq~~ Soil 2/22/16 qc 25993 gbd 3576 E Fils

Blank V8015 std qc gbd 3577
Blank V8015 std ome qc gbd 3578

7

7.6.1

original curve 2/19/16 by

Response Factor Report GCBD

Method : C:\msdchem\1\met...bd160219master.M (ChemStation Integrator)
Title : vph - master
Last Update : Fri Feb 19 13:31:10 2016
Response via : Initial Calibration

Calibration Files
1 =bd72680.d 2 =bd72681.d 4 =bd72683.d 3 =bd72682.d
5 =bd72684.d 9 =bd72688.d 6 =bd72685.d 8 =bd72687.d
7 =bd72686.d =

Compound	1	2	4	3	5	9	6	8	7	Avg	RSD
1) rt5.5-7	5.718	5.014	6.498	5.963	6.029	5.787	5.478	5.906	5.447	5.760 E5	7.30
2) rt7/10	6.647	6.047	7.432	6.929	6.962	7.021	6.152	7.120	6.169	6.720 E5	7.34
3) mtbe	2.674	2.989	3.380	3.364	3.092	2.704	2.869	2.869	2.734	2.964 E5	9.03
4) rt10/13	3.269	4.053	6.762	5.601	6.677	7.215	7.561	7.720	6.866	6.192 E5	25.37
5) benzene	8.815	7.384	8.777	7.659	8.597	7.477	7.527	7.542	7.173	7.883 E5	8.26
6) fluorobenzene	6.573	5.605	7.008	6.100	6.815	6.909	7.790	7.060	7.376	6.804 E5	9.59
7) rt13/16										0.000 -	1.00
8) toluene	8.615	7.875	8.442	7.428	8.551	7.612	7.479	7.419	7.341	7.862 E5	6.74
9) 2,3,4-trifluorotoluene	5.065	4.479	5.493	4.501	5.394	5.207	5.892	5.076	5.783	5.210 E5	9.56
10) rt16/20										0.000 -	1.00
11) rt20/25	0.696	0.693	0.743	0.632	0.773	1.150	0.805	1.001	0.846	0.816 E6	20.19
12) rt25/29										0.000 -	1.00
13) ethylbenzene	8.533	8.304	8.155	7.600	8.471	7.931	7.649	7.985	7.452	8.009 E5	4.86
14) m,p-xylene	7.197	8.375	7.640	8.658	8.081	8.615	8.330	8.401	8.127	8.158 E5	

7.6.1

7

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5.80
15) o-xylene
8.138 8.186 8.215 8.022 8.687 9.200 8.135 8.484 7.917 8.331 E5
4.81
16) decane
0.406 0.657 0.683 0.642 0.759 1.632 0.849 1.250 0.974 0.873 E6
42.44
17) 1,3,5-trimethylbenzene
8.561 9.214 8.415 9.149 9.127 9.460 9.967 9.110 9.823 9.203 E5
5.55
18) 1,2,4-trimethylbenzene
7.932 8.932 8.133 9.100 8.864 9.382 8.741 9.059 8.519 8.740 E5
5.38
19) butylcyclohexane
0.624 0.730 0.737 0.751 0.825 1.408 0.926 1.208 0.994 0.911 E6
28.01
20) naphthalene
4.261 4.719 5.335 4.986 5.458 2.689 4.112 3.168 3.311 4.227 E5
23.51
21) 2,5-dibromotoluene
0.000 -
1.00

Signal #2

23) mtbe #2
1.368 1.460 1.667 1.610 1.593 1.466 1.570 1.600 1.536 1.541 E5
6.07
24) benzene #2
4.861 4.876 5.056 5.081 4.822 4.969 4.569 4.719 4.570 4.836 E5
3.90
25) fluorobenzene #2
3.079 3.091 3.220 3.214 3.077 3.733 3.886 3.554 3.680 3.393 E5
9.43
26) toluene #2
4.626 4.588 4.711 4.756 4.512 4.707 4.237 4.493 4.115 4.527 E5
4.86
27) 2,3,4-trifluorotoluene #2
1.932 1.869 1.891 1.909 1.814 2.067 2.170 1.877 2.188 1.969 E5
6.99
28) ethylbenzene #2
4.459 4.298 4.247 4.336 4.065 4.136 3.841 4.132 3.838 4.150 E5
5.12
29) m,p-xylene #2
5.131 5.050 5.113 5.152 4.929 5.039 4.682 5.068 4.695 4.984 E5
3.61
30) o-xylene #2
4.551 4.406 4.313 4.400 4.169 4.837 4.014 4.366 4.075 4.348 E5
5.78
31) 1,3,5-trimethylbenzene #2
6.721 6.794 6.567 6.734 6.343 7.129 6.606 6.779 6.720 6.710 E5
3.14
32) 1,2,4-trimethylbenzene #2
5.032 5.133 4.940 5.083 4.785 5.310 4.478 4.993 4.514 4.919 E5
5.66
33) naphthalene #2
3.386 3.828 4.165 4.078 3.817 2.045 2.922 2.364 2.469 3.230 E5

2/19/16

7.6.1

7

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```
24.83
 34)  c9-c10 arom as 1,2,4-tmb
            5.032 5.131 4.938 5.082 4.785 5.305 4.490 4.970 4.516   4.917 E5
5.57
 35)  2,5-dibromotoluene #2
                                                                    0.000   -
1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          bd160219master.M        Fri Feb 19 13:54:22 2016
```

not deleted 1.0ppb from stds ranges only
naphthalene using linear regression, inverse concentration

2/19/16
ay

VPH curve

in use

2/19/16

Response Factor Report GCBD

Method : C:\msdchem\1\methods\bd160219vph.M (ChemStation Integrator)
Title : vph - master
Last Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration

Calibration Files
1 =bd72680.d 2 =bd72681.d 4 =bd72683.d 3 =bd72682.d
5 =bd72684.d 9 =bd72688.d 6 =bd72685.d 8 =bd72687.d
7 =bd72686.d =

Compound	1	2	4	3	5	9	6	8	7	Avg	% RSD
1) rt5.5-7											
	6.167				6.167					6.167 E5	0.00
2) rt7/10											
	6.167				6.167					6.167 E5	0.00
3) rt10/13											
	6.167				6.167					6.167 E5	0.00
4) fluorobenzene											
	6.573	5.605	7.008	6.100	6.815	6.909	7.790	7.060	7.376	6.804 E5	9.59
5) rt13/16											
										0.000 -	1.00
6) 2,3,4-trifluorotoluene											
	5.065	4.479	5.493	4.501	5.394	5.207	5.892	5.076	5.783	5.210 E5	9.56
7) rt16/20											
										0.000 -	1.00
8) rt20/25											
	8.002				8.002					8.002 E5	0.00
9) rt25/29											
										0.000 -	1.00
10) decane											
	8.002				8.002					8.002 E5	0.00
11) butylcyclohexane											
	8.002				8.002					8.002 E5	0.00
12) 2,5-dibromotoluene											
										0.000 -	1.00
Signal #2											
14) mtbe #2											
	1.368	1.460	1.667	1.610	1.593	1.466	1.570	1.600	1.536	1.541 E5	

7.6.1

7

SGS ACCUTEST MC45897

```
6.07
 15)  benzene #2
            4.861 4.876 5.056 5.081 4.822 4.969 4.569 4.719 4.570   4.836 E5
3.90
 16)  fluorobenzene #2
            3.079 3.091 3.220 3.214 3.077 3.733 3.886 3.554 3.680   3.393 E5
9.43
 17)  toluene #2
            4.626 4.588 4.711 4.756 4.512 4.707 4.237 4.493 4.115   4.527 E5
4.86
 18)  2,3,4-trifluorotoluene #2
            1.932 1.869 1.891 1.909 1.814 2.067 2.170 1.877 2.188   1.969 E5
6.99
 19)  ethylbenzene #2
            4.459 4.298 4.247 4.336 4.065 4.136 3.841 4.132 3.838   4.150 E5
5.12
 20)  m,p-xylene #2
            5.131 5.050 5.113 5.152 4.929 5.039 4.682 5.068 4.695   4.984 E5
3.61
 21)  o-xylene #2
            4.551 4.406 4.313 4.400 4.169 4.837 4.014 4.366 4.075   4.348 E5
5.78
 22)  1,3,5-trimethylbenzene #2
            6.721 6.794 6.567 6.734 6.343 7.129 6.606 6.779 6.720   6.710 E5
3.14
 23)  1,2,4-trimethylbenzene #2
            5.032 5.133 4.940 5.083 4.785 5.310 4.478 4.993 4.514   4.919 E5
5.66
 24)  naphthalene #2
            3.386 3.828 4.165 4.078 3.817 2.045 2.922 2.364 2.469   3.230 E5
24.83
            ----- Linear regression -----  Coefficient =  0.9932
                Response Ratio = -203870.32475 + 364658.28656 *A

 25)  c9-c10 arom as 1,2,4-tmb
            5.032 5.131 4.938 5.082 4.785 5.305 4.490 4.970 4.516   4.917 E5
5.57
 26)  2,5-dibromotoluene #2
                                                                    0.000   -
1.00
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

        bd160219vph.M        Fri Feb 19 13:41:18 2016
```

2/19/16
aj

7.6.1

7

SGS ACCUTEST MC45897

Operator tonyf
Date Acquired #VALUE!
Instrument Name GCBD

	bd72680.d	bd72681.d	bd72683.d	bd72682.d	bd72684.d	bd72688.d	bd72685.d	bd72687.d	bd72686.d
	1000	500	100	250	50	1	10	2	5
rt5.5-7	571776990	250696304	54982591	149066038	30143416	578714	5478380	1181221	2723524
rt7/10	664691568	302369528	74322538	173228736	34807733	702081	6151519	1423940	3084292
mtbe	267375479	149463905	33800413	84104242	15460558	270393	2869302	573857	1367206
rt10/13	326932608	202634743	67623819	140036220	33383300	721543	7560791	1543987	3432971
benzene	881456634	369202764	87774837	191470179	42982873	747683	7526601	1508329	3586407
toluene	861485080	393743577	84423859	185707723	42756685	761168	7478514	1483744	3670681
rt20/25	696465027	346681859	74314298	156091359	38654222	1149887	8045975	2002361	4228618
ethylbenzene	853280690	415193330	81550653	190000309	42355999	793136	7648937	1597064	3725793
m,p-xylene	1439377364	837537821	152799260	432876904	80812232	1723067	16659616	3360397	8126886
o-xylene	813797703	409323205	82145326	200540345	43434854	920010	8134654	1696702	3958698
decane	406144732	328410851	68348944	160400652	37965661	1632465	8499226	2500365	4869338
1,3,5-trimethylbenzene	856076033	460707488	84145233	228714832	45635368	946024	9966676	1822082	4911450
1,2,4-trimethylbenzene	793214434	446599621	81329260	227512016	44319474	938216	8741165	1811882	4259354
butylcyclohexane	623652608	364778065	73745152	187694750	41267880	1408346	9260257	2416889	4968205
naphthalene	426083724	235968786	53350849	124639753	27290467	268939	4112144	633669	1855353

MAVPH pentane, methylpentane,isooctane

Total area	1563400166	755700575	206928947	462329993	98334449	2002338	19190690	4149148	9240787
Total mass	3000	1500	300	750	150	3	30	6	15
RF	521133	503800	689763	616440	655563	667446	639690	691525	616052

	Avg RF	Area 1000	Area 50
	622379	622379185	31118959
% RSD	10.95		

*** = 2 x conc

Nonane, butylcyclohexane, decane

Total area	1726452266	1039870775	216408394	506186760	117887763	4190698	25795459	6919614	14066162
Total mass	3000	1500	300	750	150	3	30	6	15
RF	575484	693247	721361	674916	785918	1396899	859849	1153269	937744

	Avg RF	Area 1000	Area 50
	866521	866520858	43326043
%RSD	30.19		

deleted 1st from ranges 2/19/16 cy

JFH 070804 Analyst/Date:____

Edit 2-methylpentane, isooctane, mtbe,bz, tulene, ethylbenzene to 1000.
ZM April 13,2005

Operator tonyf
Date Acquired #VALUE!
Instrument Name GCBD

	bd72680.d	bd72681.d	bd72683.d	bd72682.d	bd72684.d	bd72688.d	bd72685.d	bd72687.d	bd72686.d
	1000	500	100	250	50	1	10	2	5
rt5.5-7	571775990	250696304	64982591	149066038	30143416	578714	5478380	1181221	2723524
rt7/10	684691568	302369528	74322538	173228736	34807733	702081	6151519	1423940	3084292
mtbe	267375479	149463905	33800413	84104242	15460556	270393	2869302	573857	1367206
rt10/13	326932608	202634743	67623819	140035220	33383300	721543	7560791	1543987	3432971
benzene	881455634	369202764	87774837	191470179	42982873	747683	7526601	1508329	3586407
toluene	861485080	393743577	84423850	185707723	42756685	761168	7478514	1483744	3670681
rt20/25	696455027	346681859	74314298	158091359	38654222	1149887	8045975	2002361	4228618
ethylbenzene	853280690	415193330	81550653	190000309	42355999	793136	7648937	1597064	3725793
m,p-xylene	1439377364	837537821	152799260	432876904	80812232	1723067	16659616	3360397	8126886
o-xylene	813797703	409323205	82145326	200540345	43434654	920010	8134654	1696702	3958696
decane	406144732	328410851	68348944	160400652	37965661	1632465	8489226	2500365	4869338
1,3,5-trimethylbenzene	856076033	460707486	84145233	228714832	45635368	946024	9966676	1822082	4911450
1,2,4-trimethylbenzene	793214434	446599621	81329260	227512016	44319474	938216	8741165	1811882	4259354
butylcyclohexane	623852508	364778065	73745152	187694750	41267880	1408346	9260257	2416889	4968205
naphthalene	428083724	235968786	53350849	124639753	27290467	268939	4112144	633569	1655353

MAVPH pentane, methylpentane,isooctane

Total area	1563400166	755700575	206928947	462329993	98334449	19190690	4149148	9240787
Total mass	3000	1500	300	750	150	30	6	15
RF	521133	503800	689763	616440	655563	639690	691525	616052

	Avg RF	Area 1000	Area 50
	616746	616745844	30837292
% RSD	**11.44**		

*** = 2 x conc

Nonane, butylcyclohexane, decane

Total area	1726452266	1039870775	216408394	506186760	117887763	25795459	6919614	14066162
Total mass	3000	1500	300	750	150	30	6	15
RF	575484	693247	721361	674916	785918	859849	1153269	937744

	Avg RF	Area 1000	Area 50
	800224	800223563	40011178
%RSD	**22.71**		

JFH 070604 Analyst/Date:_____

Edit 2-methylpentane, isooctane, mtbe,bz, tulene, ethylbenzene to 1000.
ZM April 13,2005

2/19/16
ajs

Data File Name	bd72689.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**icv3752-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	32771312	C5 - C8 area	CF	CF		
rt7/10	37519205	106873097	712487	616746	**-15.52**	
rt10/13	36582580					
rt20/25	38978420					
decane	37220553	C9-C12 area				
butylcyclohexane	41168976	117367949	782453	800224	**2.22**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 2/19/16 aid

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	bd72690.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**mb**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	22840406	C5 - C8 area	CF	CF		
rt7/10	26439866	74923968	499493	616746	**19.01**	
rt10/13	25643696					
rt20/25	26471005					
decane	25392634	C9-C12 area				
butylcyclohexane	29032373	80896011	539307	800224	**32.61**	*

D NA
OT not pulled

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date:_____ 2/22/16 aff

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	bd72704.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	28273329	C5 - C8 area	CF	CF		
rt7/10	34200726	93802094	625347	616746	**-1.39**	
rt10/13	31328040					
rt20/25	34167846					
decane	32560735	C9-C12 area				
butylcyclohexane	37006510	103735091	691567	800224	**13.58**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 2/22/16 ay

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

SGS ACCUTEST MC45897

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/13/16 Analyst Signature: DJF / [illegible] pg. 1 of 2

Column: mtx 502.2

Standards Data

Test	Workgroup	Batch
VMAVPH AQ	GC26235	gbd 3635

Standards Data

Lot #	Description	Expiration
gv16370	surr 250µg/mL	5/20/16
gv16379	cc/bsp ↓	6/4/16

Method: BDVPH1

GC Seq. File: BD160513.S

Method Files:

BD160513VPH cc3572-50 1-1, 2-2, 3-4, 5-6, 7-10,

AS Seq. File: 11-29, 30-36

Date of ICAL: 2-19-16 ICAL Verified: Seq. Verification: DJF

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
BD73544	concal 50	N/A	GC26235	VMAVPH	1	W	1µL gv16379	N/A	N/A	
45	mb	↓	↓	↓	2	↓	1µL gv16370	↓	↓	
46	bsp				3		1µL gv16379			
47	bsd				4		↓			
48	MC45880-1	1			5		5mL		L2	Toluene overcal, RR 1.5
49	MC45897-3	1			6		↓	↓		reshoot carryover
50	MC45880-1ms	1			7		1µL gv16379 into 5mL			not needed 5/16/16 cdg
51	↓ -1msd	2			8		↓	↓		not needed ↓
52	MC45897-3ms	1			9		↓	↓		
53	↓ -3msd	2			10		↓	↓		
54	MC45880-1	3			11		5mL of 25mL/100mL	1:5 FVDJF		
55	MC45897-1				12		5mL	N/A		
56	-2				13					
57	-4				14					
58	-5				15					
59	-6				16					
60	MC45884-8				17					
61	-9				18					
62	-10				19					
63	-11				20					
64	-12				21					
65	-13				22					
66	-14				23					
67	-15				24					
68	-16				25					
69	↓ 17				26					
70	-18		↓	↓	27	↓	↓	↓	↓	Low Surr RR system visit out-of-GA site

Hydrion Exp. 6/15/18

GC001-07 Date: 4/27/16 Dilution Solvent: Lot Number: pH Paper Lot: 216315

Review:

MTX = Matrix: Designate W for water, S for soil, O for oil, A for air. *Note: If sample matrix is soil – method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water, mg/m3 for air.

7.

7.6.2

7

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/13/16 Analyst Signature: DJF/ [illegible] pg. 2 of 2

Column: mtx502.2

Standards Data

Test	Workgroup	Batch
VMAVPH AQ	GC26235	gbd 3635

Standards Data

Lot #	Description	Expiration
gv16370	Surr 250ug/ml	5/20/16
gv16379	cc/bsp ↓	6/4/16

Method: BDVPH1

GC Seq. File: BD160513.S

Method Files:

BD160513VPH cc3572-50

1-1, 2-2, 3-4, 5-6, 7-10,

AS Seq. File: 11-29, 30-30

Date of ICAL: 2-19-16 ICAL Verified: ____ Seq. Verification: DJF

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
BD73571	MC45884-19		GC26235	VMAVPH	28	W	5 mL	N/A	<2	low surr AQ
72	↓ -20		↓	↓	29	↓	↓	↓	↓	low surr AQ
73*	concal 50	N/A	↓	↓	30	↓	1µL gv16379	↓	N/A	ok

5/16/16 [illegible]

GC001-07 Date: 4/27/16 Dilution Solvent: ____ Lot Number: ____ pH Paper Lot: Hydrion 216315 Exp. 6/15/18

Review: ____

MTX = Matrix: Designate W for water, S for soil, O for oil, A for air. *Note: If sample matrix is soil – method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water, mg/m3 for air.

8.

7.6.2

7

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/16/16 Analyst Signature: aaf

Column: mtx 502.2

Standards Data

Test	Workgroup	Batch
VMAVPH AQ	gc 26239	gbd 3636
↓	gc 26235	gbd 3635
		C B files
		D 5/16/16

Standards Data

Lot #	Description	Expiration
gv16379	cc bsp 250 ug/ml	6/4/16
gv16383	Surr ↓	6/16/16

Method: BD VPH I
GC Seq. File: BD 160516.S
Method Files:
BD 160516 VPH cc3592-50
1-1, 2-2 3-4, 5-6, 6-7, 8-17, 15-18
AS Seq. File: aaf

Date of ICAL: 3-19-16 ICAL Verified: Seq. Verification:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
BD73,5740	Concal 50	N/A	gc 26239	VMAVPH	1	W	1ml gv16379	N/A	N/A	
✓ 75	mb				2		1ml gv16383			ND, greater than 1/2 RL verify
✓ 76	bsp				3		1ml gv16379			
✓ 77	bsd				4		↓		↓	
78	mc45910-2	m3	web		5		5ml		<2	ND OK less than 1/2 RL 73,577A renamed D
79	-4	1			6				<2	
80	-4ms	1			6			+ 1ml gv16379		
81	-4msd	2			7			↓ N/A		
82	mc45887-18	2			8					
83	-19	2			9					
84	-20	2			10					
85	mc45893-1	1			11				↓	
86	-2	1			12				6	
87	-3	1			13				6	
88	-4	1			14				6	
89	-5	1			15				6	
90	-6	1			16				6	
91	-7	1			17				<2	
92	Concal 50	N/A			18		1ml gv16379		N/A	
✓ 77B	mc45897-3		gc 26235	Vmavph	4		5ml	73,577B		(shot after 77A which was renamed 77B for gc 26235 batch)
										5/16/16 aaf

GC001-07 Date: 4/27/16 Dilution Solvent:_____ Lot Number:_____ pH Paper Lot:_____
Review:_____

MTX = Matrix: Designate W for water, S for soil, O for oil, A for air. *Note: If sample matrix is soil – method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water, mg/m3 for air.

9

7.6.2

7

Data File Name	bd73544.d
Operator	danielf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	28029209	C5 - C8 area	CF	CF		
rt7/10	33260112	91751975	611680	616746	**0.82**	
rt10/13	30462655					
rt20/25	33356622					
decane	32572979	C9-C12 area				
butylcyclohexane	37502086	103431686	689545	800224	**13.83**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: DJF / 5-13-16

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

7.6.2

7

SGS ACCUTEST MC45897

C:\msdchem\1\data\BD160513\bd73548.d

Data File Name	bd73548.d	
Operator	danielf	
Date Acquired	#VALUE!	
Method File	BDVPH1.M	
Sample Name	nc45880-1.w,vmavph.00	
Enter Sample Multiplier	1	Enter Dilution mult. (E8)
Meoh Volume		5.00
Matrix	water	FROM BD 73554

Name	Enter Dilution Amount	From dilution (Y)		%recovery
FID				
2,5-dibromotoluene	0.00			0.00
rt5.5-7	571.80		571.80	
rt7/10	416.25		416.25	
rt10/13	706.68	Y	3533.40	
rt20/25	4706.19		4706.19	
rt25/29	0.00		0.00	

	UNCORRECTED		CORRECTED VALUE
C5 - C8 HYDROCARBONS	4521.45	-2277.03	**2244.42**
C9 - C12 HYDROCARBONS	4706.19	-3504.14	**1202.05**

PID

SIGNAL #2	Enter Dilution Amount	corrected	From dilution? (Y)
mtbe #2	0.00	0.00	
benzene #2	24.48	24.48	
toluene #2	450.51	2252.55	Y
2,3,4-trifluorotoluene #2	58.22	58.22	
ethylbenzene #2	99.41	99.41	
m,p-xylene #2	343.21	343.21	
o-xylene #2	188.04	188.04	
1,3,5-trimethylbenzene #2	0.00	0.00	
1,2,4-trimethylbenzene #2	331.31	331.31	
naphthalene #2	113.84	113.84	
c9-c10 arom as 1,2,4-tmb	2873.48	2873.48	
2,5-dibromotoluene #2	0.00	0.00	0.00%
			%recovery

created 090205jfh for aef
020608 added rt25/29 aef

5/16/2016 12:56 PM

Data File Name	bd73573.d
Operator	danielf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	27841600	C5 - C8 area	CF	CF		
rt7/10	33632803	91538300	610255	616746	**1.05**	
rt10/13	30063898					
rt20/25	34828892					
decane	32338283	C9-C12 area				
butylcyclohexane	38155924	105323099	702154	800224	**12.26**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/16/16 ay

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	bd73574.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	25693784	C5 - C8 area	CF	CF		
rt7/10	31403437	84788412	565256	616746	**8.35**	
rt10/13	27691191					
rt20/25	32349149					
decane	31199112	C9-C12 area				
butylcyclohexane	36311807	99860068	665734	800224	**16.81**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/16/16 aa

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

 A file

Data File Name	bd73592.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	26084450	C5 - C8 area	CF	CF		
rt7/10	31867968	85041769	566945	616746	**8.07**	
rt10/13	27089350					
rt20/25	31799166					
decane	29548685	C9-C12 area				
butylcyclohexane	34183937	95531788	636879	800224	**20.41**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/17/16 acf

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5/16/16 Analyst Signature: aef

Column: mtx 502.2

Method: BD VPH1

GC Seq. File: BD160516.3

Method Files: BD160516VPH cc3592-50 1-1,2-2 3-4, 5-6, 6-7, 8-17, 15-18

AS Seq. File: aef

Standards Data

Test	Workgroup	Batch
VMAVPH AC	qc26239	gbd 3636
↓	qc26235	gbd 3635
		C files
		D 5/16/16

Standards Data

Lot #	Description	Expiration
qv16379	cc/bsp 250 µg/ml	6/4/16
qv16383	Surr ↓	6/16/16

Date of ICAL: 2-19-16 ICAL Verified: Seq. Verification:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
BD73,5740	Concal 50	N/A	qc26239	VMAVPH	1	W	1ml qv16379	N/A	N/A	
✓ 75	mb	↓	↓	↓	2	↓	1ml qv16383	↓	↓	ND, greater than 1/2 RL verify
✓ 76	bsp				3		1ml qv16379			
✓ 77	bsd				4		↓		↓	
78	mc45910-2	mg	web		5	(77B)	5ml		<2	ND OK but than 1/2 RL 73,5777A renamed B
79	-4	1			6				<2	
80	-4ms	1			6			+ 1ml qv16379		
81	-4msd	2			7			↓ N/A		
82	mc45884-18	2			8					
83	-19	2			9					
84	-20	2			10					
85	mc45893-1	1			11				↓	
86	-2	1			12				6	
87	-3	1			13				6	
88	-4	1			14				6	
89	-5	1			15				6	
90	-6	1			16				6	
91	-7	1			17				<2	
92	Concal 50	N/A			18		1ml qv16379		N/A	
✓ 77B	mc45897-3		qc26235	VMAVPH	4		5ml reanalyze	73,5777B		(shot after (77A which was renamed 77B) for qc26235 batch)
										5/16/16 aef

GC001-07 Date: 4/27/16 Dilution Solvent: Lot Number: pH Paper Lot:

Review:

MTX = Matrix: Designate W for water, S for soil, O for oil, A for air. *Note: If sample matrix is soil – method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water, mg/m3 for air.

9

7.6.3

7

c file 5/16/16 aj

Data File Name	bd73574.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	25693784	C5 - C8 area	CF	CF		
rt7/10	31403437	84788412	565256	616746	**8.35**	
rt10/13	27691191					
rt20/25	32349149					
decane	31199112	C9-C12 area				
butylcyclohexane	36311807	99860068	665734	800224	**16.81**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/16/16 aj

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

Data File Name	bd73592.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	26084450	C5 - C8 area	CF	CF		
rt7/10	31867968	85041769	566945	616746	**8.07**	
rt10/13	27089350					
rt20/25	31799166					
decane	29548685	C9-C12 area				
butylcyclohexane	34183937	95531788	636879	800224	**20.41**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/17/16 aef

Edit: Methylpentane, Iso-octane to 50.
ZM April 14,2005
aromatic format edit jfh 083005
%drift jfh 10/04/05

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP47498-MB	DE14164.D	1	05/19/16	TA	05/16/16	OP47498	GDE793

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC45897-1A, MC45897-2A, MC45897-3A, MC45897-5A, MC45897-6A

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	100	70	ug/l	
	C9-C18 Aliphatics	ND	100	70	ug/l	
	C19-C36 Aliphatics	ND	100	70	ug/l	
	C11-C22 Aromatics	ND	100	70	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	81%	40-140%
321-60-8	2-Fluorobiphenyl	89%	40-140%
3386-33-2	1-Chlorooctadecane	64%	40-140%
580-13-2	2-Bromonaphthalene	89%	40-140%

Method Blank Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP47576-MB	DE14215.D	1	05/23/16	TA	05/20/16	OP47576	GDE795

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC45897-4A

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	100	70	ug/l	
	C9-C18 Aliphatics	ND	100	70	ug/l	
	C19-C36 Aliphatics	ND	100	70	ug/l	
	C11-C22 Aromatics	ND	100	70	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	40-140%
321-60-8	2-Fluorobiphenyl	82%	40-140%
3386-33-2	1-Chlorooctadecane	63%	40-140%
580-13-2	2-Bromonaphthalene	83%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP47498-BS	DE14165.D	1	05/19/16	TA	05/16/16	OP47498	GDE793
OP47498-BSD	DE14191.D	1	05/20/16	TA	05/16/16	OP47498	GDE793

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC45897-1A, MC45897-2A, MC45897-3A, MC45897-5A, MC45897-6A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	800	698	87	723	90	4	40-140/25
	C9-C18 Aliphatics	300	194	65	171	57	13	40-140/25
	C19-C36 Aliphatics	400	321	80	328	82	2	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	85%	87%	40-140%
321-60-8	2-Fluorobiphenyl	92%	99%	40-140%
3386-33-2	1-Chlorooctadecane	71%	67%	40-140%
580-13-2	2-Bromonaphthalene	86%	93%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47498-BS	2-Methylnaphthalene	30.0	ND	0.0%	5.0
OP47498-BS	Naphthalene	28.5	ND	0.0%	5.0
OP47498-BSD	2-Methylnaphthalene	27.7	ND	0.0%	5.0
OP47498-BSD	Naphthalene	24.9	ND	0.0%	5.0

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP47576-BS	DE14213.D	1	05/23/16	TA	05/20/16	OP47576	GDE795
OP47576-BSD	DE14214.D	1	05/23/16	TA	05/20/16	OP47576	GDE795

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC45897-4A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	800	738	92	800	100	8	40-140/25
	C9-C18 Aliphatics	300	201	67	216	72	7	40-140/25
	C19-C36 Aliphatics	400	334	84	377	94	12	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	90%	92%	40-140%
321-60-8	2-Fluorobiphenyl	79%	87%	40-140%
3386-33-2	1-Chlorooctadecane	88%	90%	40-140%
580-13-2	2-Bromonaphthalene	76%	84%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47576-BS	2-Methylnaphthalene	26.2	ND	0.0%	5.0
OP47576-BS	Naphthalene	24.2	ND	0.0%	5.0
OP47576-BSD	2-Methylnaphthalene	30.9	0.030	0.1%	5.0
OP47576-BSD	Naphthalene	28.9	ND	0.0%	5.0

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP47498-MS	DE14167.D	1	05/19/16	TA	05/16/16	OP47498	GDE793
OP47498-MSD	DE14168.D	1	05/19/16	TA	05/16/16	OP47498	GDE793
MC45897-3A	DE14177.D	1	05/19/16	TA	05/16/16	OP47498	GDE793

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC45897-1A, MC45897-2A, MC45897-3A, MC45897-5A, MC45897-6A

CAS No.	Compound	MC45897-3A ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	ND		899	836	93	988	884	90	6	40-140/25
	C9-C18 Aliphatics	ND		337	231	69	370	264	71	13	40-140/25
	C19-C36 Aliphatics	ND		449	386	86	494	433	88	11	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45897-3A	Limits
84-15-1	o-Terphenyl	88%	81%	81%	40-140%
321-60-8	2-Fluorobiphenyl	95%	87%	88%	40-140%
3386-33-2	1-Chlorooctadecane	67%	66%	66%	40-140%
580-13-2	2-Bromonaphthalene	88%	80%	89%	40-140%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Method: MADEP EPH REV 1.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [b]	S4 [a]
MC45897-1A	DE14175.D	83	88	59	91
MC45897-2A	DE14176.D	85	88	62	90
MC45897-3A	DE14177.D	81	88	66	89
MC45897-4A	DE14216.D	85	76	70	79
MC45897-5A	DE14179.D	70	91	61	84
MC45897-6A	DE14180.D	70	85	61	87
OP47498-BS	DE14165.D	85	92	71	86
OP47498-BSD	DE14191.D	87	99	67	93
OP47498-MB	DE14164.D	81	89	64	89
OP47498-MS	DE14167.D	88	95	67	88
OP47498-MSD	DE14168.D	81	87	66	80
OP47576-BS	DE14213.D	90	79	88	76
OP47576-BSD	DE14214.D	92	87	90	84
OP47576-MB	DE14215.D	86	82	63	83

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%
S2 = 2-Fluorobiphenyl	40-140%
S3 = 1-Chlorooctadecane	40-140%
S4 = 2-Bromonaphthalene	40-140%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

GC Surrogate Retention Time Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE793-CC735	**Injection Date:**	05/19/16
Lab File ID:	DE14163.D	**Injection Time:**	13:37
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.87	6.60	11.23	7.33

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
OP47498-MB	DE14164.D	05/19/16	14:35	9.87	6.61	11.22	7.33
OP47498-BS	DE14165.D	05/19/16	15:03	9.87	6.61	11.22	7.33
OP47498-MS	DE14167.D	05/19/16	15:59	9.87	6.61	11.22	7.33
OP47498-MSD	DE14168.D	05/19/16	16:27	9.87	6.61	11.22	7.33
ZZZZZZ	DE14169.D	05/19/16	16:55	9.87	6.61	11.22	7.33
ZZZZZZ	DE14170.D	05/19/16	17:24	9.87	6.61	11.22	7.33
ZZZZZZ	DE14171.D	05/19/16	17:52	9.87	6.61	11.23	7.33
ZZZZZZ	DE14172.D	05/19/16	18:21	9.87	6.61	11.22	7.33
ZZZZZZ	DE14173.D	05/19/16	18:49	9.87	6.61	11.23	7.33

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 1-Chlorooctadecane
S4 = 2-Bromonaphthalene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE793-CC735	**Injection Date:**	05/19/16
Lab File ID:	DE14174.D	**Injection Time:**	19:18
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.87	6.61	11.23	7.33

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
MC45897-1A	DE14175.D	05/19/16	19:46	9.87	6.61	11.22	7.33
MC45897-2A	DE14176.D	05/19/16	20:15	9.87	6.61	11.22	7.33
MC45897-3A	DE14177.D	05/19/16	20:43	9.87	6.61	11.22	7.33
MC45897-5A	DE14179.D	05/19/16	21:39	9.87	6.61	11.22	7.33
MC45897-6A	DE14180.D	05/19/16	22:08	9.87	6.61	11.22	7.33
ZZZZZZ	DE14181.D	05/19/16	22:36	9.87	6.61	11.22	7.33
ZZZZZZ	DE14182.D	05/19/16	23:04	9.87	6.61	11.22	7.33
ZZZZZZ	DE14183.D	05/19/16	23:32	9.87	6.61	11.22	7.33
ZZZZZZ	DE14184.D	05/19/16	23:59	9.87	6.61	11.22	7.33

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 1-Chlorooctadecane
S4 = 2-Bromonaphthalene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE793-CC735	**Injection Date:**	05/20/16
Lab File ID:	DE14190.D	**Injection Time:**	02:47
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.87	6.60	11.23	7.33

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
OP47498-BSD	DE14191.D	05/20/16	08:50	9.87	6.61	11.22	7.33
GDE793-ECC735	DE14193.D	05/20/16	09:46	9.87	6.61	11.23	7.33

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 1-Chlorooctadecane
S4 = 2-Bromonaphthalene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE795-CC735	**Injection Date:**	05/23/16
Lab File ID:	DE14212.D	**Injection Time:**	08:26
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.87	6.60	11.23	7.33

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
OP47576-BS	DE14213.D	05/23/16	09:01	9.87	6.60	11.22	7.33
OP47576-BSD	DE14214.D	05/23/16	09:28	9.87	6.61	11.22	7.33
OP47576-MB	DE14215.D	05/23/16	09:56	9.87	6.61	11.22	7.33
MC45897-4A	DE14216.D	05/23/16	10:25	9.87	6.61	11.22	7.33
ZZZZZZ	DE14217.D	05/23/16	10:52	9.87	6.61	11.22	7.33
ZZZZZZ	DE14218.D	05/23/16	11:20	9.87	6.61	11.22	7.33
ZZZZZZ	DE14219.D	05/23/16	11:49	9.87	6.61	11.22	7.33
ZZZZZZ	DE14220.D	05/23/16	12:17	9.87	6.61	11.22	7.33
GDE795-ECC735	DE14221.D	05/23/16	12:44	9.87	6.60	11.23	7.33

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 1-Chlorooctadecane
S4 = 2-Bromonaphthalene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE735-ICC735
Lab FileID: DE13195.D

Response Factor Report GCDE

Method : C:\msdchem\1\METHODS\EPH160204W.M (RTE Integrator)
Title : BMAEPH-working method
Last Update : Fri Feb 05 13:21:12 2016
Response via : Initial Calibration

Calibration Files
1 =de13197.d 2 =de13196.d 3 =de13195.d 4 =de13194.d
5 =de13193.d 6 =de13192.d 7 =de13191.d

Compound	1	2	3	4	5	6	7	Avg	%RSD
1)h c11-c22 Aromatics	9.820							9.820 E4	0.00
2) naphthalene	0.973	1.014	1.069	1.081	1.046	1.028	1.009	1.031 E5	3.63
3) 2-methylnaphthale	0.957	1.000	1.057	1.068	1.037	1.025	1.030	1.025 E5	3.65
4)s 2-fluorobiphenyl	8.586	8.981	9.512	9.617	9.324	9.238	9.302	9.223 E4	3.76
5) acenaphthylene	0.934	0.978	1.038	1.053	1.027	1.012	0.999	1.006 E5	4.00
6)s 2-bromonaphthalen	5.855	6.121	6.501	6.591	6.368	6.298	6.194	6.275 E4	3.94
7) acenaphthene	0.966	1.010	1.071	1.085	1.050	1.037	1.018	1.034 E5	3.90
8) fluorene	0.946	0.989	1.049	1.065	1.031	1.023	1.007	1.016 E5	3.92
9) phenanthrene	0.945	0.988	1.045	1.065	1.029	1.035	1.018	1.018 E5	3.92
10) anthracene	0.897	0.938	0.994	1.019	0.984	0.996	0.962	0.970 E5	4.26
11)s o-terphenyl	0.950	0.994	1.052	1.072	1.032	1.040	1.030	1.024 E5	3.96
12) fluoranthene	0.923	0.963	1.016	1.039	1.003	1.017	1.035	0.999 E5	4.21
13) pyrene	0.947	0.988	1.025	1.045	1.012	1.031	1.055	1.015 E5	3.67
14) benzo(a)anthracen	0.894	0.932	0.977	1.001	0.969	0.989	1.005	0.967 E5	4.18
15) chrysene	0.903	0.939	0.990	1.011	0.978	0.990	1.003	0.973 E5	3.97
16) benzo(B)fluoranth	0.945	0.946	0.996	1.047	1.000	0.988	1.008	0.990 E5	3.63
17) benzo(k)fluoranth	8.430	9.345	9.845	9.766	9.489	9.693	9.583	9.450 E4	5.09
18) benzo(a)pyrene	8.660	8.965	9.450	9.638	9.284	9.234	9.474	9.244 E4	3.62
19) indeno(1,2,3-cd)p	9.335	9.241	9.709	9.741	9.445	9.341	9.448	9.466 E4	2.02
20) dibenzo(ah)anthra	8.305	8.727	9.371	9.666	9.332	9.299	9.278	9.140 E4	5.05
21) benzo(ghi)perylen	8.762	8.870	9.410	9.580	9.273	9.246	9.345	9.212 E4	3.19
22)s bht								0.000	-1.00
23) bht								0.000	-1.00

Signal #2

25)h c-9	7.387							7.387 E4	0.00
26)h c-10	7.387							7.387 E4	0.00
27) naphthalene #2	7.003	7.593	7.611	8.507	8.544	8.454	8.198	7.987 E4	7.42
28) c-12	7.387							7.387 E4	0.00
29) 2-methylnaphthale	6.966	7.565	7.607	8.491	8.598	8.600	8.570	8.057 E4	8.29
30) c-14	7.387							7.387 E4	0.00
31) c-16	7.387							7.387 E4	0.00
32) c-18	7.387							7.387 E4	0.00
33) c-19	6.681							6.681 E4	0.00
34) c-20	6.681							6.681 E4	0.00
35)s 1-chlorooctadecan	4.935	5.338	5.360	5.912	5.965	5.976	6.118	5.657 E4	7.85
36) c-22	6.681							6.681 E4	0.00
37) c-24	6.681							6.681 E4	0.00
38) c-26	6.681							6.681 E4	0.00
39) c-28	6.681							6.681 E4	0.00
40)h c-30	6.681							6.681 E4	0.00
41)h c-36	6.681							6.681 E4	0.00
42)s bht								0.000	-1.00
43)s bht								0.000	-1.00
44)s bht								0.000	-1.00
45)s bht								0.000	-1.00

Initial Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE735-ICC735
Lab FileID: DE13195.D

(#) = Out of Range

EPH160204W.M Fri Feb 05 14:30:17 2016

Initial Calibration Verification

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE735-ICV735
Lab FileID: DE13198.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  4 Feb 2016   7:21 pm
Operator  : thomasa
Sample    : icv735-50
Misc      : op46167,gde735,1000,,,2,,w
ALS Vial  : 16   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title  : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  80%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 120%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	106.426 E3	-3.2	100	0.00
3		2-methylnaphthalene	102.482	104.515 E3	-2.0	99	0.00
4	s	2-fluorobiphenyl	92.230	95.715 E3	-3.8	101	0.00
5		acenaphthylene	100.602	103.788 E3	-3.2	100	0.00
6	s	2-bromonaphthalene	62.755	65.224 E3	-3.9	100	0.00
7		acenaphthene	103.376	106.000 E3	-2.5	99	0.00
8		fluorene	101.567	104.339 E3	-2.7	100	0.00
9		phenanthrene	101.763	103.522 E3	-1.7	99	0.00
10		anthracene	97.008	103.269 E3	-6.5	104	0.00
11	s	o-terphenyl	102.427	104.556 E3	-2.1	99	0.00
12		fluoranthene	99.941	102.944 E3	-3.0	101	0.00
13		pyrene	101.462	101.540 E3	-0.1	99	0.00
14		benzo(a)anthracene	96.675	100.212 E3	-3.7	103	0.00
15		chrysene	97.341	96.368 E3	1.0	97	0.00
16		benzo(B)fluoranthene	99.002	102.523 E3	-3.6	103	0.00
17		benzo(k)fluoranthene	94.503	96.169 E3	-1.8	98	0.00
18		benzo(a)pyrene	92.435	89.726 E3	2.9	95	0.00
19		indeno(1,2,3-cd)pyrene	94.658	96.506 E3	-2.0	99	0.00
20		dibenzo(ah)anthracene	91.399	94.300 E3	-3.2	101	0.00
21		benzo(ghi)perylene	92.123	95.320 E3	-3.5	101	0.00
Signal #2							
25	h	c-9	73.872	73.397 E3	0.6	0#	0.00
26	h	c-10	73.872	73.642 E3	0.3	0#	0.00
27		naphthalene #2	79.872	80.719 E3	-1.1	106	0.00
28		c-12	73.872	72.503 E3	1.9	0#	0.00
29		2-methylnaphthalene #2	80.566	79.084 E3	1.8	104	0.00
30		c-14	73.872	72.105 E3	2.4	0#	0.00
31		c-16	73.872	70.770 E3	4.2	0#	0.00

Initial Calibration Verification

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE735-ICV735
Lab FileID: DE13198.D

32		c-18	73.872	69.894 E3	5.4	0#	0.00
33		c-19	66.806	68.487 E3	-2.5	0#	0.00
34		c-20	66.806	67.817 E3	-1.5	0#	0.00
35	s	1-chlorooctadecane	56.575	59.379 E3	-5.0	111	0.00
36		c-22	66.806	66.707 E3	0.1	0#	0.00
37		c-24	66.806	65.519 E3	1.9	0#	0.00
38		c-26	66.806	65.031 E3	2.7	0#	0.00
39		c-28	66.806	64.086 E3	4.1	0#	0.00
40	h	c-30	66.806	62.872 E3	5.9	0#	0.00
41	h	c-36	66.806	58.670 E3	12.2	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000 E3	100.0#	0#	-5.35#
22	s	bht	0.000	0.000	0.0	0#	-15.69#
23		bht	0.000	0.000	0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000	0.0	0#	-23.00#
43	s	bht	0.000	0.000	0.0	0#	-23.00#
44	s	bht	0.000	0.000	0.0	0#	-23.00#
45	s	bht	0.000	0.000	0.0	0#	-23.00#

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

EPH160204W.M Fri Feb 05 14:30:12 2016

8.6.2

8

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE793-CC735
Lab FileID: DE14163.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 19 May 2016   1:37 pm
Operator  : thomasa
Sample    : cc735-50,gde793
Misc      : op47498,gde793,1000,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:34:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	107.899 E3	-4.6	101	0.00
3		2-methylnaphthalene	102.482	106.027 E3	-3.5	100	0.00
4	s	2-fluorobiphenyl	92.230	97.030 E3	-5.2	102	0.00
5		acenaphthylene	100.602	107.035 E3	-6.4	103	0.00
6	s	2-bromonaphthalene	62.755	65.969 E3	-5.1	101	0.00
7		acenaphthene	103.376	111.971 E3	-8.3	105	0.00
8		fluorene	101.567	109.400 E3	-7.7	104	0.00
9		phenanthrene	101.763	109.441 E3	-7.5	105	0.00
10		anthracene	97.008	105.530 E3	-8.8	106	0.00
11	s	o-terphenyl	102.427	110.137 E3	-7.5	105	0.00
12		fluoranthene	99.941	108.278 E3	-8.3	107	0.00
13		pyrene	101.462	110.993 E3	-9.4	108	0.00
14		benzo(a)anthracene	96.675	103.924 E3	-7.5	106	0.00
15		chrysene	97.341	105.125 E3	-8.0	106	0.00
16		benzo(B)fluoranthene	99.002	106.662 E3	-7.7	107	0.00
17		benzo(k)fluoranthene	94.503	103.989 E3	-10.0	106	0.00
18		benzo(a)pyrene	92.435	100.232 E3	-8.4	106	0.00
19		indeno(1,2,3-cd)pyrene	94.658	103.387 E3	-9.2	106	0.00
20		dibenzo(ah)anthracene	91.399	100.369 E3	-9.8	107	0.00
21		benzo(ghi)perylene	92.123	101.141 E3	-9.8	107	0.00
Signal #2							
25	h	c-9	73.872	78.719 E3	-6.6	0#	0.00
26	h	c-10	73.872	79.398 E3	-7.5	0#	0.00
27		naphthalene #2	79.872	84.761 E3	-6.1	111	0.00
28		c-12	73.872	78.721 E3	-6.6	0#	0.00
29		2-methylnaphthalene #2	80.566	84.629 E3	-5.0	111	0.00
30		c-14	73.872	78.322 E3	-6.0	0#	0.00
31		c-16	73.872	77.813 E3	-5.3	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE793-CC735
Lab FileID: DE14163.D

32		c-18	73.872	78.141	E3	-5.8	0#	0.00
33		c-19	66.806	77.463	E3	-16.0	0#	0.00
34		c-20	66.806	76.119	E3	-13.9	0#	0.00
35	s	1-chlorooctadecane	56.575	61.459	E3	-8.6	115	0.00
36		c-22	66.806	75.662	E3	-13.3	0#	0.00
37		c-24	66.806	70.870	E3	-6.1	0#	0.00
38		c-26	66.806	75.335	E3	-12.8	0#	0.00
39		c-28	66.806	72.830	E3	-9.0	0#	0.00
40	h	c-30	66.806	72.338	E3	-8.3	0#	0.00
41	h	c-36	66.806	65.209	E3	2.4	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-15.68#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160519W.M Fri May 20 14:44:25 2016

8.6.3

8

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE793-CC735
Lab FileID: DE14174.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14174.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 19 May 2016   7:18 pm
Operator  : thomasa
Sample    : cc735-50,gde793
Misc      : op47498,gde793,1000,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:33:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	117.003 E3	-13.4	109	0.00
3		2-methylnaphthalene	102.482	116.042 E3	-13.2	110	0.00
4	s	2-fluorobiphenyl	92.230	104.178 E3	-13.0	110	0.00
5		acenaphthylene	100.602	114.778 E3	-14.1	111	0.00
6	s	2-bromonaphthalene	62.755	69.826 E3	-11.3	107	0.00
7		acenaphthene	103.376	118.104 E3	-14.2	110	0.00
8		fluorene	101.567	116.029 E3	-14.2	111	0.00
9		phenanthrene	101.763	114.620 E3	-12.6	110	0.00
10		anthracene	97.008	110.370 E3	-13.8	111	0.00
11	s	o-terphenyl	102.427	114.935 E3	-12.2	109	0.00
12		fluoranthene	99.941	111.211 E3	-11.3	109	0.00
13		pyrene	101.462	113.654 E3	-12.0	111	0.00
14		benzo(a)anthracene	96.675	104.692 E3	-8.3	107	0.00
15		chrysene	97.341	104.804 E3	-7.7	106	0.00
16		benzo(B)fluoranthene	99.002	103.539 E3	-4.6	104	0.00
17		benzo(k)fluoranthene	94.503	101.195 E3	-7.1	103	0.00
18		benzo(a)pyrene	92.435	99.238 E3	-7.4	105	0.00
19		indeno(1,2,3-cd)pyrene	94.658	101.670 E3	-7.4	105	0.00
20		dibenzo(ah)anthracene	91.399	98.769 E3	-8.1	105	0.00
21		benzo(ghi)perylene	92.123	99.399 E3	-7.9	106	0.00
Signal #2							
25	h	c-9	73.872	78.502 E3	-6.3	0#	0.00
26	h	c-10	73.872	79.215 E3	-7.2	0#	0.00
27		naphthalene #2	79.872	84.398 E3	-5.7	111	0.00
28		c-12	73.872	78.630 E3	-6.4	0#	0.00
29		2-methylnaphthalene #2	80.566	84.280 E3	-4.6	111	0.00
30		c-14	73.872	78.047 E3	-5.7	0#	0.00
31		c-16	73.872	77.440 E3	-4.8	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE793-CC735
Lab FileID: DE14174.D

32		c-18	73.872	77.344	E3	-4.7	0#	0.00
33		c-19	66.806	76.795	E3	-15.0	0#	0.00
34		c-20	66.806	75.308	E3	-12.7	0#	0.00
35	s	1-chlorooctadecane	56.575	60.882	E3	-7.6	114	0.00
36		c-22	66.806	74.775	E3	-11.9	0#	0.00
37		c-24	66.806	69.798	E3	-4.5	0#	0.00
38		c-26	66.806	74.092	E3	-10.9	0#	0.00
39		c-28	66.806	71.493	E3	-7.0	0#	0.00
40	h	c-30	66.806	71.281	E3	-6.7	0#	0.00
41	h	c-36	66.806	64.409	E3	3.6	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-15.68#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160519W.M Fri May 20 14:44:15 2016

8.6.4

8

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE793-CC735
Lab FileID: DE14185.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14185.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 20 May 2016  12:27 am
Operator  : thomasa
Sample    : cc735-50,gde793
Misc      : op47498,gde793,1000,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:31:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	120.179 E3	-16.5	112	0.00
3		2-methylnaphthalene	102.482	117.744 E3	-14.9	111	0.00
4	s	2-fluorobiphenyl	92.230	107.336 E3	-16.4	113	0.00
5		acenaphthylene	100.602	118.074 E3	-17.4	114	0.00
6	s	2-bromonaphthalene	62.755	72.331 E3	-15.3	111	0.00
7		acenaphthene	103.376	123.412 E3	-19.4	115	0.00
8		fluorene	101.567	119.711 E3	-17.9	114	0.00
9		phenanthrene	101.763	118.960 E3	-16.9	114	0.00
10		anthracene	97.008	114.908 E3	-18.5	116	0.00
11	s	o-terphenyl	102.427	118.974 E3	-16.2	113	0.00
12		fluoranthene	99.941	115.495 E3	-15.6	114	0.00
13		pyrene	101.462	118.004 E3	-16.3	115	0.00
14		benzo(a)anthracene	96.675	108.292 E3	-12.0	111	0.00
15		chrysene	97.341	109.141 E3	-12.1	110	0.00
16		benzo(B)fluoranthene	99.002	110.458 E3	-11.6	111	0.00
17		benzo(k)fluoranthene	94.503	106.446 E3	-12.6	108	0.00
18		benzo(a)pyrene	92.435	102.787 E3	-11.2	109	0.00
19		indeno(1,2,3-cd)pyrene	94.658	106.786 E3	-12.8	110	0.00
20		dibenzo(ah)anthracene	91.399	102.207 E3	-11.8	109	0.00
21		benzo(ghi)perylene	92.123	103.368 E3	-12.2	110	0.00

Signal #2

25	h	c-9	73.872	75.753 E3	-2.5	0#	0.00
26	h	c-10	73.872	76.655 E3	-3.8	0#	0.00
27		naphthalene #2	79.872	81.887 E3	-2.5	108	0.00
28		c-12	73.872	76.296 E3	-3.3	0#	0.00
29		2-methylnaphthalene #2	80.566	81.902 E3	-1.7	108	0.00
30		c-14	73.872	75.932 E3	-2.8	0#	0.00
31		c-16	73.872	75.382 E3	-2.0	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE793-CC735
Lab FileID: DE14185.D

32		c-18	73.872	75.427	E3	-2.1	0#	0.00
33		c-19	66.806	74.982	E3	-12.2	0#	0.00
34		c-20	66.806	73.742	E3	-10.4	0#	0.00
35	s	1-chlorooctadecane	56.575	59.734	E3	-5.6	111	0.00
36		c-22	66.806	73.345	E3	-9.8	0#	0.00
37		c-24	66.806	68.619	E3	-2.7	0#	0.00
38		c-26	66.806	73.024	E3	-9.3	0#	0.00
39		c-28	66.806	70.615	E3	-5.7	0#	0.00
40	h	c-30	66.806	70.570	E3	-5.6	0#	0.00
41	h	c-36	66.806	64.841	E3	2.9	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-15.68#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160519W.M Fri May 20 14:44:04 2016

8.6.5

8

Continuing Calibration Summary

Job Number: MC45897 **Sample:** GDE793-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14190.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14190.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 20 May 2016   2:47 am
Operator  : thomasa
Sample    : cc735-50,gde793 (Sig #1); ecc735-50,gde793 (Sig #2)
Misc      : op47498,gde793,1000,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:43:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	89.394 E3	13.3	84	0.00
3		2-methylnaphthalene	102.482	91.526 E3	10.7	87	0.00
4	s	2-fluorobiphenyl	92.230	83.053 E3	10.0	87	0.00
5		acenaphthylene	100.602	93.046 E3	7.5	90	0.00
6	s	2-bromonaphthalene	62.755	57.499 E3	8.4	88	0.00
7		acenaphthene	103.376	98.490 E3	4.7	92	0.00
8		fluorene	101.567	97.679 E3	3.8	93	0.00
9		phenanthrene	101.763	100.948 E3	0.8	97	0.00
10		anthracene	97.008	98.219 E3	-1.2	99	0.00
11	s	o-terphenyl	102.427	102.113 E3	0.3	97	0.00
12		fluoranthene	99.941	103.898 E3	-4.0	102	0.00
13		pyrene	101.462	106.978 E3	-5.4	104	0.00
14		benzo(a)anthracene	96.675	104.487 E3	-8.1	107	0.00
15		chrysene	97.341	104.474 E3	-7.3	105	0.00
16		benzo(B)fluoranthene	99.002	114.886 E3	-16.0	115	0.00
17		benzo(k)fluoranthene	94.503	102.585 E3	-8.6	104	0.00
18		benzo(a)pyrene	92.435	104.158 E3	-12.7	110	0.00
19		indeno(1,2,3-cd)pyrene	94.658	109.115 E3	-15.3	112	0.00
20		dibenzo(ah)anthracene	91.399	105.969 E3	-15.9	113	0.00
21		benzo(ghi)perylene	92.123	106.862 E3	-16.0	114	0.00
Signal #2							
25	h	c-9	73.872	74.792 E3	-1.2	0#	0.00
26	h	c-10	73.872	75.766 E3	-2.6	0#	0.00
27		naphthalene #2	79.872	80.875 E3	-1.3	106	0.00
28		c-12	73.872	75.585 E3	-2.3	0#	0.00
29		2-methylnaphthalene #2	80.566	81.159 E3	-0.7	107	0.00
30		c-14	73.872	75.607 E3	-2.3	0#	0.00
31		c-16	73.872	75.455 E3	-2.1	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE793-CC735
Lab FileID: DE14190.D

32		c-18	73.872	75.904	E3	-2.8	0#	0.00
33		c-19	66.806	75.619	E3	-13.2	0#	0.00
34		c-20	66.806	74.264	E3	-11.2	0#	0.00
35	s	1-chlorooctadecane	56.575	60.313	E3	-6.6	113	0.00
36		c-22	66.806	74.123	E3	-11.0	0#	0.00
37		c-24	66.806	69.564	E3	-4.1	0#	0.00
38		c-26	66.806	74.154	E3	-11.0	0#	0.00
39		c-28	66.806	71.841	E3	-7.5	0#	0.00
40	h	c-30	66.806	71.960	E3	-7.7	0#	0.00
41	h	c-36	66.806	66.777	E3	0.0	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-15.68#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160519W.M Fri May 20 14:43:52 2016

8.6.6

8

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE793-ECC735
Lab FileID: DE14193.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14193.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 20 May 2016   9:46 am
Operator  : thomasa
Sample    : ecc735-50,gde793
Misc      : op47498,gde793,1000,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:29:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	107.077 E3	-3.8	100	0.00
3		2-methylnaphthalene	102.482	108.521 E3	-5.9	103	0.00
4	s	2-fluorobiphenyl	92.230	97.444 E3	-5.7	102	0.00
5		acenaphthylene	100.602	107.420 E3	-6.8	103	0.00
6	s	2-bromonaphthalene	62.755	65.789 E3	-4.8	101	0.00
7		acenaphthene	103.376	112.538 E3	-8.9	105	0.00
8		fluorene	101.567	109.125 E3	-7.4	104	0.00
9		phenanthrene	101.763	108.317 E3	-6.4	104	0.00
10		anthracene	97.008	104.775 E3	-8.0	105	0.00
11	s	o-terphenyl	102.427	108.568 E3	-6.0	103	0.00
12		fluoranthene	99.941	106.163 E3	-6.2	104	0.00
13		pyrene	101.462	108.566 E3	-7.0	106	0.00
14		benzo(a)anthracene	96.675	100.986 E3	-4.5	103	0.00
15		chrysene	97.341	101.720 E3	-4.5	103	0.00
16		benzo(B)fluoranthene	99.002	99.463 E3	-0.5	100	0.00
17		benzo(k)fluoranthene	94.503	105.261 E3	-11.4	107	0.00
18		benzo(a)pyrene	92.435	97.707 E3	-5.7	103	0.00
19		indeno(1,2,3-cd)pyrene	94.658	102.262 E3	-8.0	105	0.00
20		dibenzo(ah)anthracene	91.399	98.975 E3	-8.3	106	0.00
21		benzo(ghi)perylene	92.123	100.078 E3	-8.6	106	0.00
Signal #2							
25	h	c-9	73.872	77.879 E3	-5.4	0#	0.00
26	h	c-10	73.872	78.793 E3	-6.7	0#	0.00
27		naphthalene #2	79.872	84.157 E3	-5.4	111	0.00
28		c-12	73.872	78.228 E3	-5.9	0#	0.00
29		2-methylnaphthalene #2	80.566	83.995 E3	-4.3	110	0.00
30		c-14	73.872	77.661 E3	-5.1	0#	0.00
31		c-16	73.872	77.174 E3	-4.5	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE793-ECC735
Lab FileID: DE14193.D

32		c-18	73.872	77.354	E3	-4.7	0#	0.00
33		c-19	66.806	76.949	E3	-15.2	0#	0.00
34		c-20	66.806	75.535	E3	-13.1	0#	0.00
35	s	1-chlorooctadecane	56.575	61.156	E3	-8.1	114	0.00
36		c-22	66.806	75.160	E3	-12.5	0#	0.00
37		c-24	66.806	70.214	E3	-5.1	0#	0.00
38		c-26	66.806	74.532	E3	-11.6	0#	0.00
39		c-28	66.806	71.914	E3	-7.6	0#	0.00
40	h	c-30	66.806	71.598	E3	-7.2	0#	0.00
41	h	c-36	66.806	64.517	E3	3.4	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-15.68#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160519W.M Fri May 20 14:43:30 2016

8.6.7

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Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE795-CC735
Lab FileID: DE14212.D

Evaluate Continuing Calibration Report

```
Data Path : G:\1\DATA\DE160523EPH\
Data File : de14212.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 23 May 2016   8:26 am
Operator  : thomasa
Sample    : cc735-50,gde795
Misc      : op47576,gde795,1000,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:02:58 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	103.212 E3	-0.1	97	0.00
3		2-methylnaphthalene	102.482	103.857 E3	-1.3	98	0.00
4	s	2-fluorobiphenyl	92.230	93.726 E3	-1.6	99	0.00
5		acenaphthylene	100.602	103.592 E3	-3.0	100	0.00
6	s	2-bromonaphthalene	62.755	63.538 E3	-1.2	98	0.00
7		acenaphthene	103.376	108.707 E3	-5.2	102	0.00
8		fluorene	101.567	106.086 E3	-4.4	101	0.00
9		phenanthrene	101.763	106.266 E3	-4.4	102	0.00
10		anthracene	97.008	102.590 E3	-5.8	103	0.00
11	s	o-terphenyl	102.427	107.021 E3	-4.5	102	0.00
12		fluoranthene	99.941	105.169 E3	-5.2	104	0.00
13		pyrene	101.462	107.711 E3	-6.2	105	0.00
14		benzo(a)anthracene	96.675	100.137 E3	-3.6	103	0.00
15		chrysene	97.341	102.353 E3	-5.1	103	0.00
16		benzo(B)fluoranthene	99.002	102.335 E3	-3.4	103	0.00
17		benzo(k)fluoranthene	94.503	103.155 E3	-9.2	105	0.00
18		benzo(a)pyrene	92.435	97.992 E3	-6.0	104	0.00
19		indeno(1,2,3-cd)pyrene	94.658	103.330 E3	-9.2	106	0.00
20		dibenzo(ah)anthracene	91.399	98.230 E3	-7.5	105	0.00
21		benzo(ghi)perylene	92.123	100.409 E3	-9.0	107	0.00
Signal #2							
25	h	c-9	73.872	77.939 E3	-5.5	0#	0.00
26	h	c-10	73.872	78.859 E3	-6.8	0#	0.00
27		naphthalene #2	79.872	84.019 E3	-5.2	110	0.00
28		c-12	73.872	78.133 E3	-5.8	0#	0.00
29		2-methylnaphthalene #2	80.566	83.857 E3	-4.1	110	0.00
30		c-14	73.872	77.553 E3	-5.0	0#	0.00
31		c-16	73.872	77.041 E3	-4.3	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE795-CC735
Lab FileID: DE14212.D

32		c-18	73.872	77.093	E3	-4.4	0#	0.00
33		c-19	66.806	76.528	E3	-14.6	0#	0.00
34		c-20	66.806	75.065	E3	-12.4	0#	0.00
35	s	1-chlorooctadecane	56.575	60.656	E3	-7.2	113	0.00
36		c-22	66.806	74.435	E3	-11.4	0#	0.00
37		c-24	66.806	69.528	E3	-4.1	0#	0.00
38		c-26	66.806	73.696	E3	-10.3	0#	0.00
39		c-28	66.806	70.871	E3	-6.1	0#	0.00
40	h	c-30	66.806	70.775	E3	-5.9	0#	0.00
41	h	c-36	66.806	63.216	E3	5.4	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-15.68#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160523W.M Mon May 23 14:03:01 2016

8.6.8

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Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE795-ECC735
Lab FileID: DE14221.D

Evaluate Continuing Calibration Report

```
Data Path : G:\1\DATA\DE160523EPH\
Data File : de14221.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 23 May 2016  12:44 pm
Operator  : thomasa
Sample    : ecc735-50,gde795
Misc      : op47576,gde795,1000,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:13:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :


Min. RRF     :   0.000  Min. Rel. Area :  75%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 125%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	114.331 E3	-10.9	107	0.00
3		2-methylnaphthalene	102.482	114.218 E3	-11.5	108	0.00
4	s	2-fluorobiphenyl	92.230	102.734 E3	-11.4	108	0.00
5		acenaphthylene	100.602	113.083 E3	-12.4	109	0.00
6	s	2-bromonaphthalene	62.755	69.236 E3	-10.3	107	0.00
7		acenaphthene	103.376	118.579 E3	-14.7	111	0.00
8		fluorene	101.567	114.863 E3	-13.1	110	0.00
9		phenanthrene	101.763	113.374 E3	-11.4	109	0.00
10		anthracene	97.008	109.107 E3	-12.5	110	0.00
11	s	o-terphenyl	102.427	113.546 E3	-10.9	108	0.00
12		fluoranthene	99.941	109.822 E3	-9.9	108	0.00
13		pyrene	101.462	112.009 E3	-10.4	109	0.00
14		benzo(a)anthracene	96.675	101.850 E3	-5.4	104	0.00
15		chrysene	97.341	104.315 E3	-7.2	105	0.00
16		benzo(B)fluoranthene	99.002	101.623 E3	-2.6	102	0.00
17		benzo(k)fluoranthene	94.503	105.823 E3	-12.0	107	0.00
18		benzo(a)pyrene	92.435	98.807 E3	-6.9	105	0.00
19		indeno(1,2,3-cd)pyrene	94.658	103.734 E3	-9.6	107	0.00
20		dibenzo(ah)anthracene	91.399	100.222 E3	-9.7	107	0.00
21		benzo(ghi)perylene	92.123	101.516 E3	-10.2	108	0.00

Signal #2

25	h	c-9	73.872	75.450 E3	-2.1	0#	0.00
26	h	c-10	73.872	76.511 E3	-3.6	0#	0.00
27		naphthalene #2	79.872	81.718 E3	-2.3	107	0.00
28		c-12	73.872	76.046 E3	-2.9	0#	0.00
29		2-methylnaphthalene #2	80.566	81.761 E3	-1.5	107	0.00
30		c-14	73.872	75.992 E3	-2.9	0#	0.00
31		c-16	73.872	75.938 E3	-2.8	0#	0.00

Continuing Calibration Summary

Job Number: MC45897
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE795-ECC735
Lab FileID: DE14221.D

32		c-18	73.872	76.425	E3	-3.5	0#	0.00
33		c-19	66.806	76.184	E3	-14.0	0#	0.00
34		c-20	66.806	75.015	E3	-12.3	0#	0.00
35	s	1-chlorooctadecane	56.575	60.848	E3	-7.6	114	0.00
36		c-22	66.806	74.889	E3	-12.1	0#	0.00
37		c-24	66.806	70.232	E3	-5.1	0#	0.00
38		c-26	66.806	74.868	E3	-12.1	0#	0.00
39		c-28	66.806	72.379	E3	-8.3	0#	0.00
40	h	c-30	66.806	72.556	E3	-8.6	0#	0.00
41	h	c-36	66.806	66.524	E3	0.4	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
22	s	bht	0.000	0.000		0.0	0#	-15.68#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160523W.M Mon May 23 14:13:45 2016

8.6.9

8

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14175.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 7:46 pm
Operator : thomasa
Sample : mc45897-1A,op47498
Misc : op47498,gde793,875,,,2,,s
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:09:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1630700	17.681 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 88.41%#	
6) s 2-bromonaphthalene	7.332	1143287	18.218 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 91.09%#	
11) s o-terphenyl	9.868	1692218	16.521 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 82.61%#	
35) s 1-chlorooctadecane	11.223	671488	11.869 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 59.35%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2104509	21.430 µg/mlm
25) h c-9	2.647	739868	10.016 µg/mlm
41) h c-36	16.983	1001668	14.994 µg/mlm

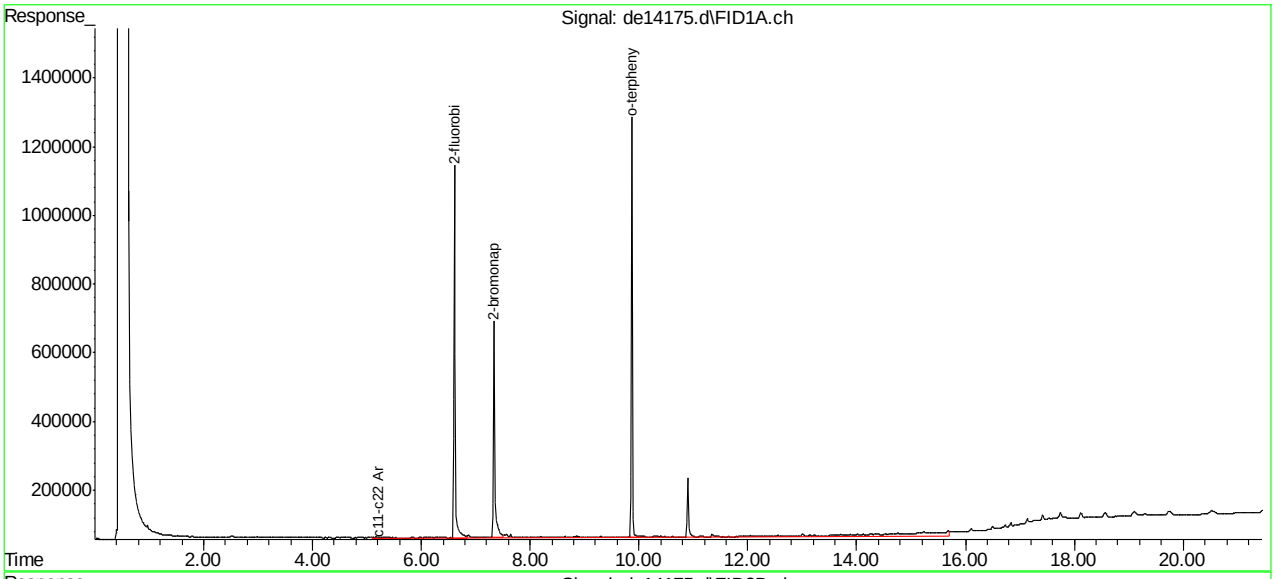
(f)=RT Delta > 1/2 Window (m)=manual int.

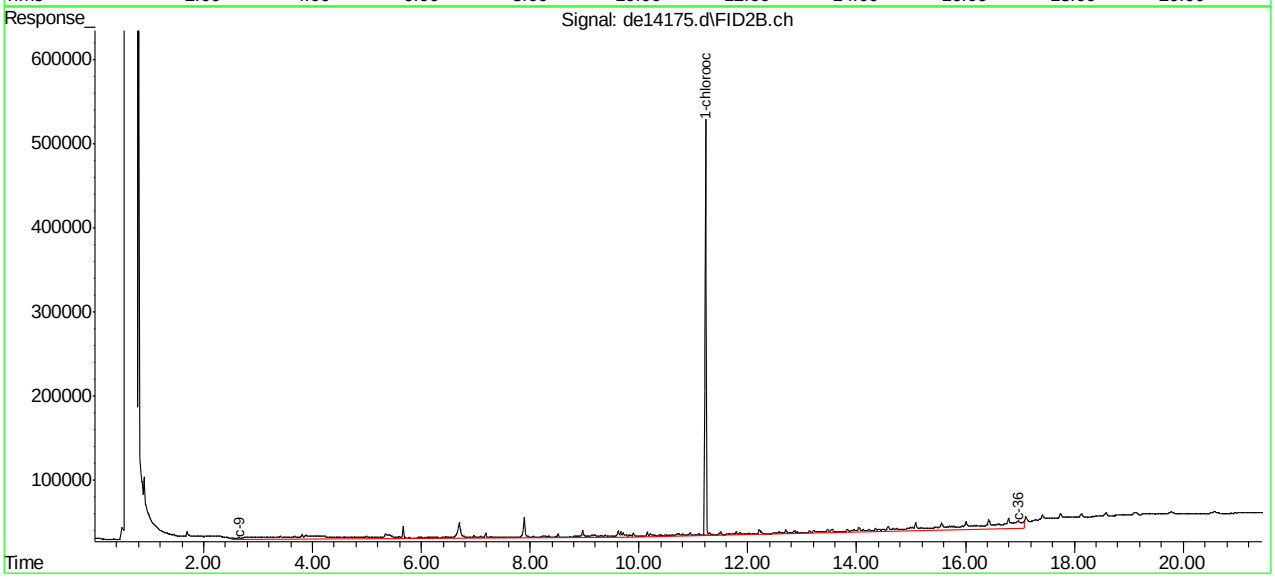
Quantitation Report (QT Reviewed)

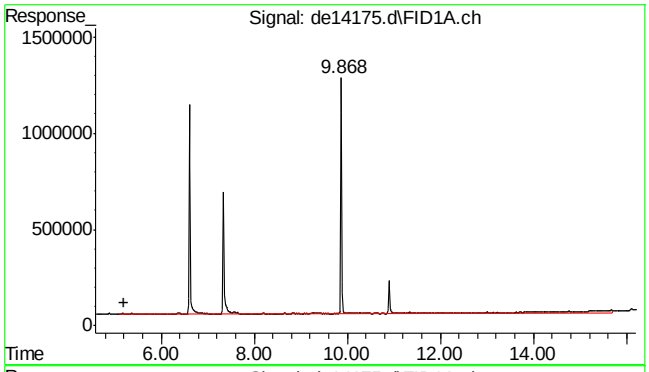
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14175.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 7:46 pm
Operator : thomasa
Sample : mc45897-1A,op47498
Misc : op47498,gde793,875,,,2,,s
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:09:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

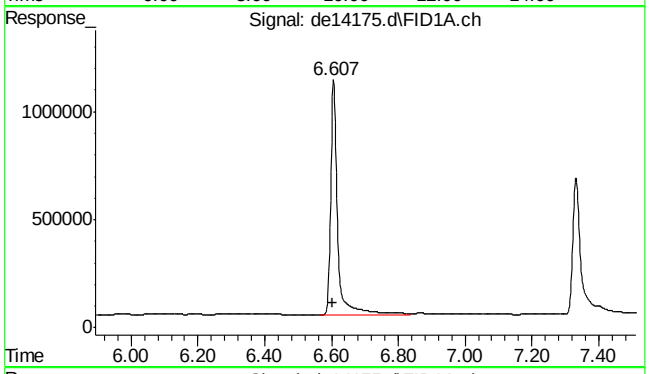






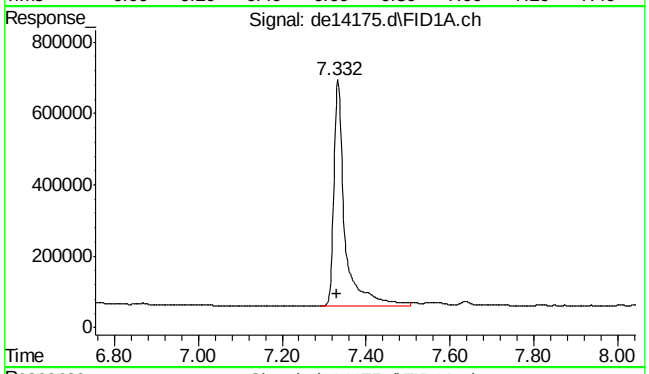
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2104509
Conc: 21.43 µg/ml m



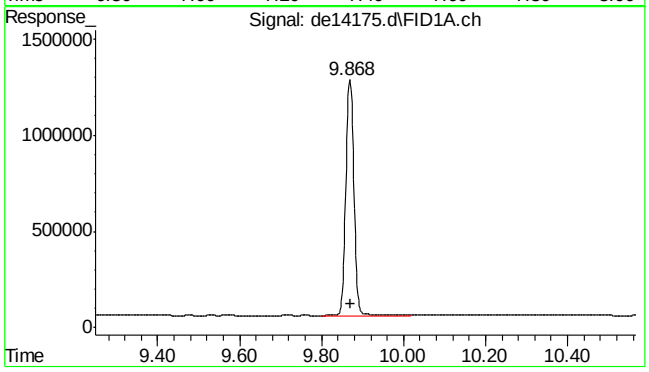
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.003 min
Response: 1630700
Conc: 17.68 µg/ml



#6 2-bromonaphthalene

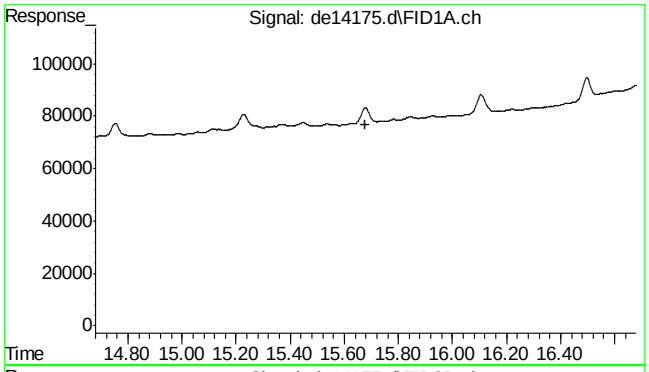
R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 1143287
Conc: 18.22 µg/ml



#11 o-terphenyl

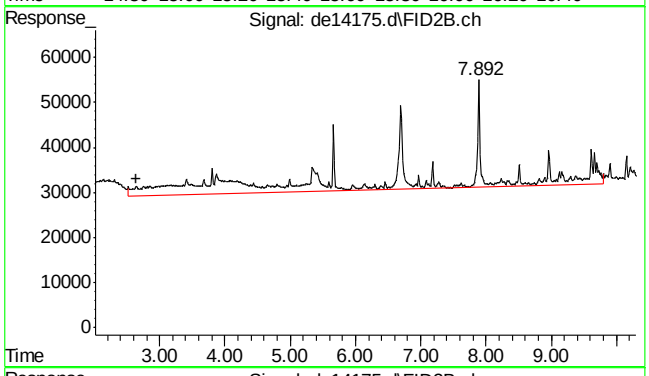
R.T.: 9.868 min
Delta R.T.: -0.003 min
Response: 1692218
Conc: 16.52 µg/ml

SGS ACCUTEST MC45897



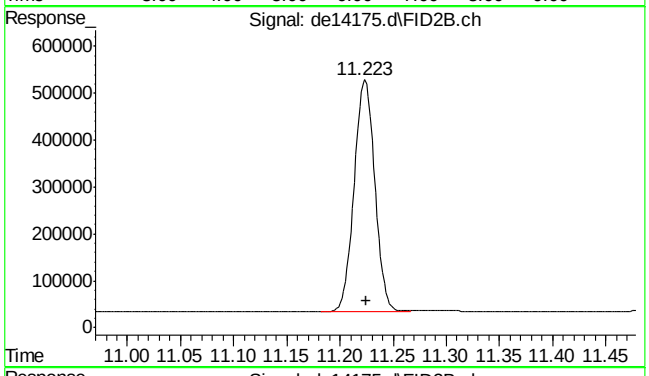
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



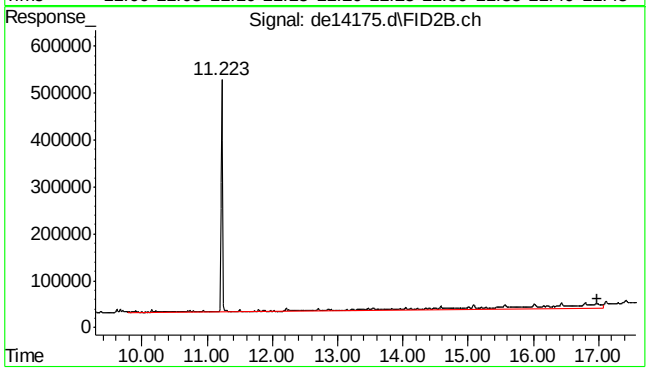
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 739868
Conc: 10.02 µg/ml m



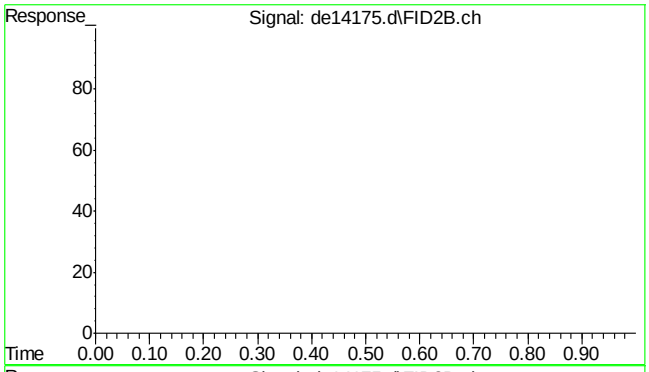
#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.002 min
Response: 671488
Conc: 11.87 µg/ml



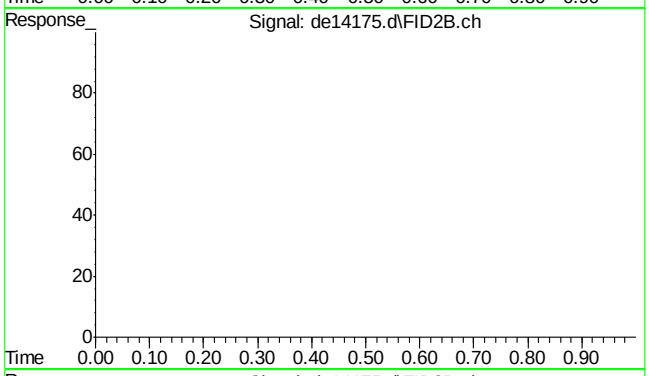
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1001668
Conc: 14.99 µg/ml m



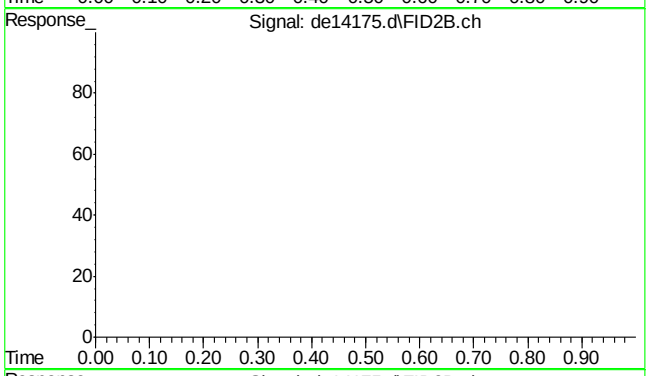
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



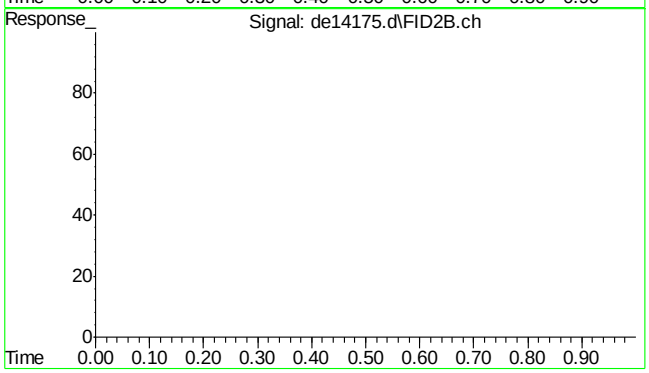
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14176.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 8:15 pm
Operator : thomasa
Sample : mc45897-2A,op47498
Misc : op47498,gde793,910,,,2,,s
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:12:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1623340	17.601 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 88.00%#	
6) s 2-bromonaphthalene	7.332	1132062	18.039 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 90.20%#	
11) s o-terphenyl	9.868	1740106	16.989 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 84.95%#	
35) s 1-chlorooctadecane	11.223	702486	12.417 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 62.09%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2287453	23.293 µg/mlm
25) h c-9	2.647	783575	10.607 µg/mlm
41) h c-36	16.983	1216662	18.212 µg/mlm

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

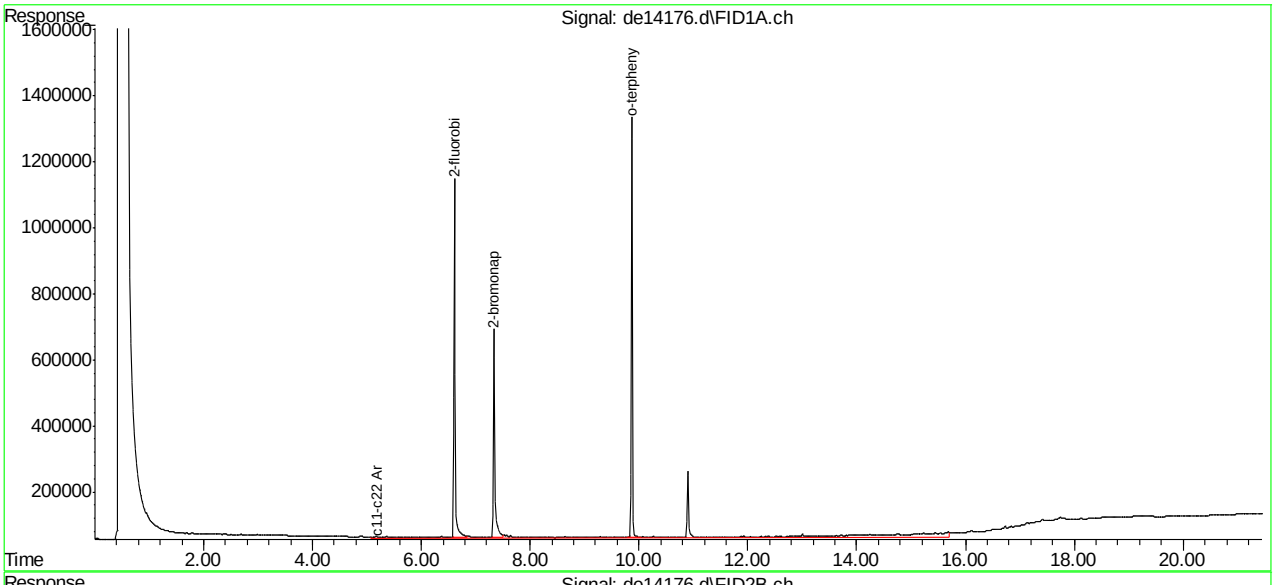
SGS ACCUTEST MC45897

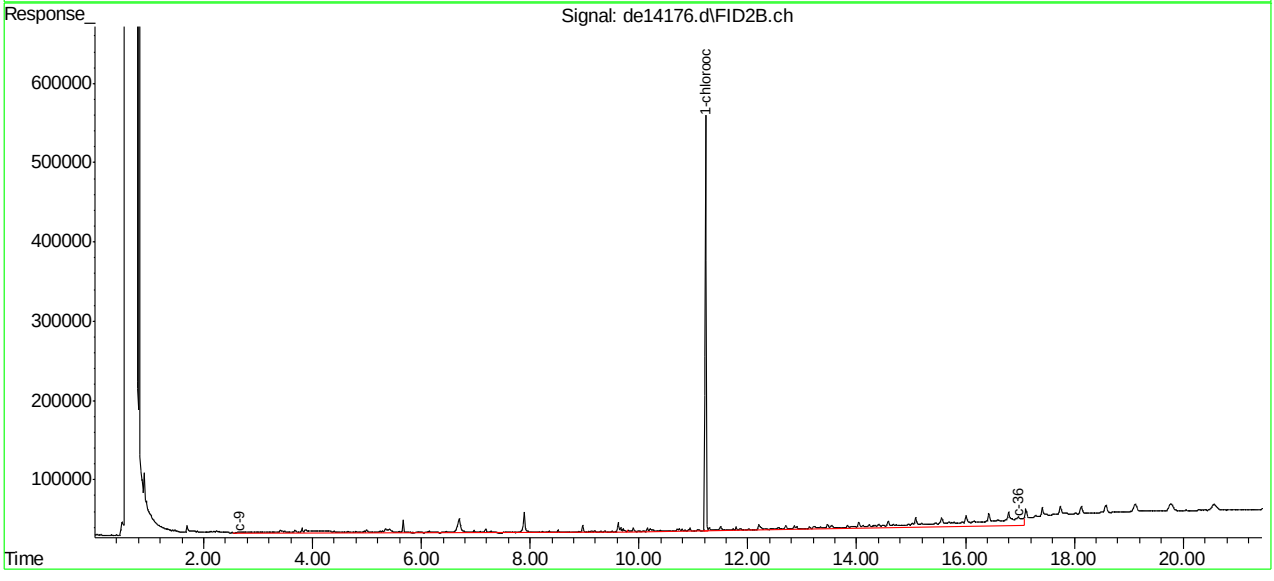
Quantitation Report (QT Reviewed)

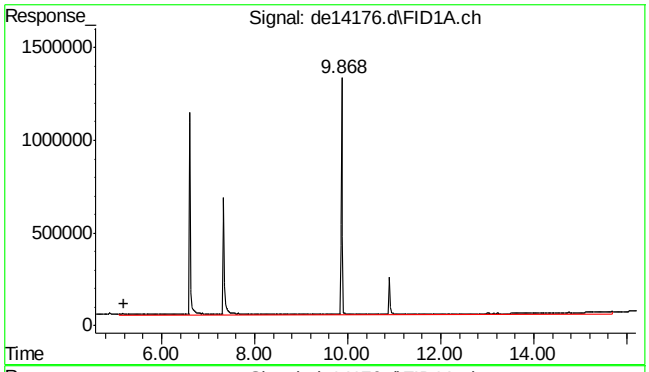
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14176.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 8:15 pm
Operator : thomasa
Sample : mc45897-2A,op47498
Misc : op47498,gde793,910,,,2,,s
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:12:16 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

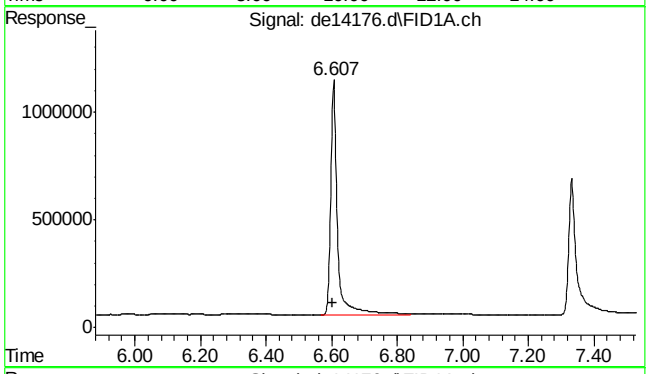






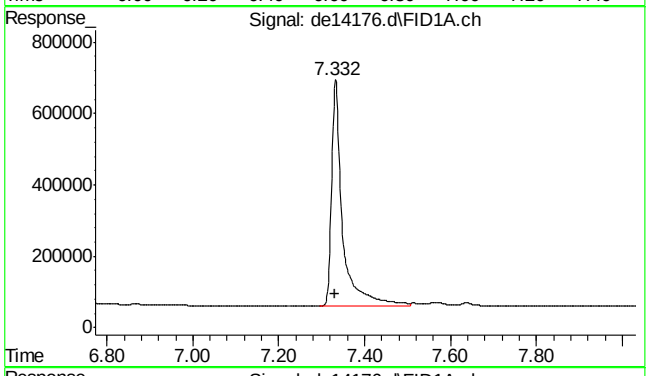
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2287453
Conc: 23.29 µg/ml m



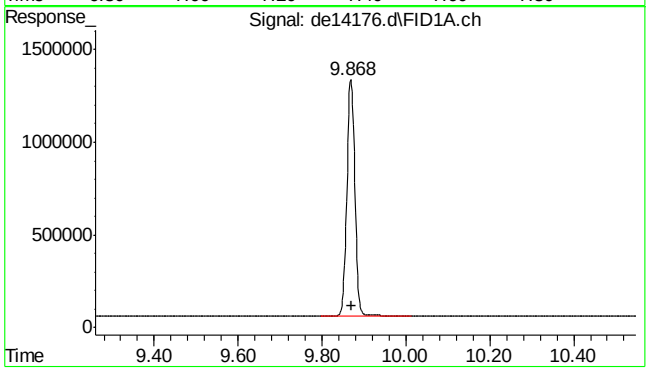
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.003 min
Response: 1623340
Conc: 17.60 µg/ml



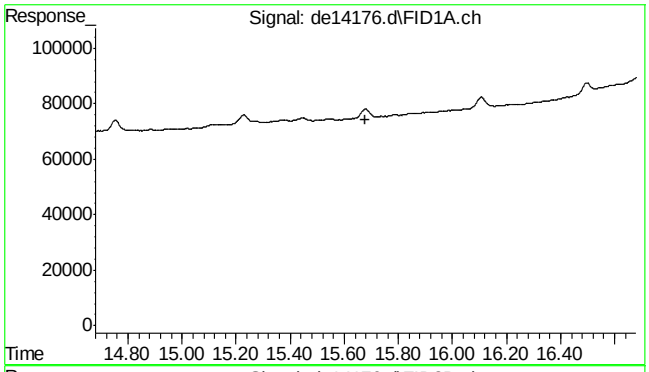
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 1132062
Conc: 18.04 µg/ml



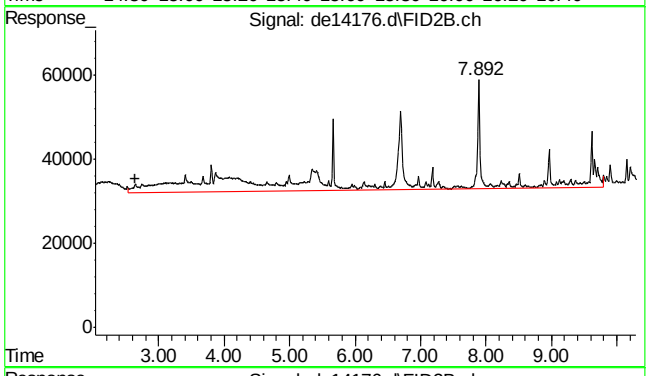
#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.003 min
Response: 1740106
Conc: 16.99 µg/ml



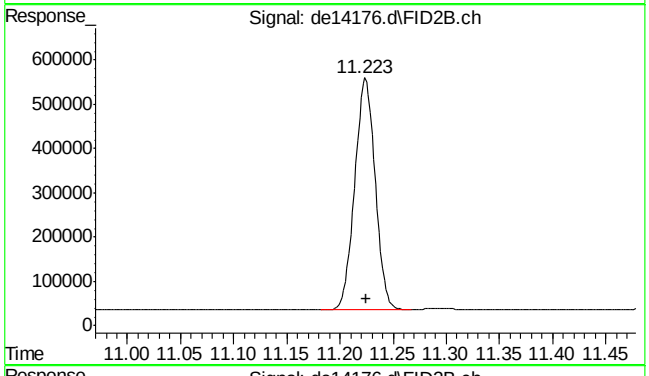
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



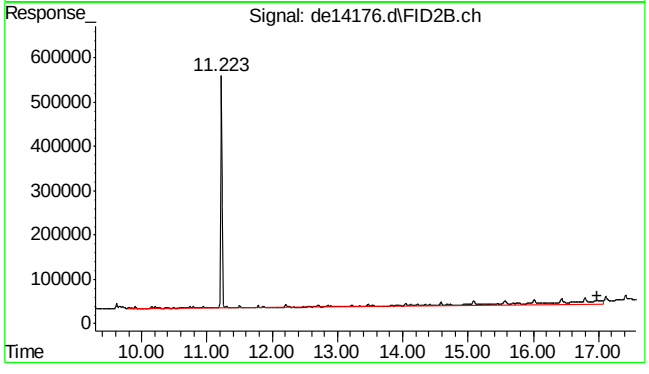
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 783575
Conc: 10.61 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.002 min
Response: 702486
Conc: 12.42 µg/ml



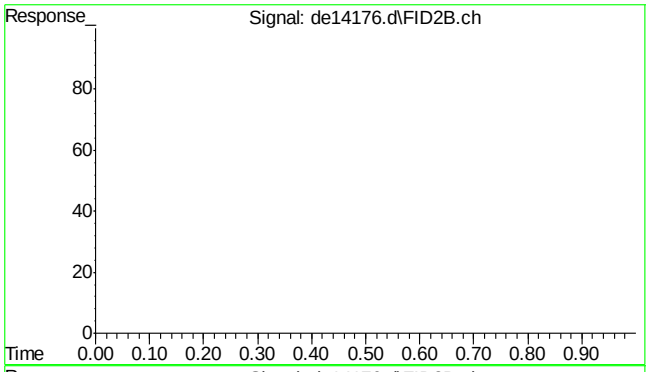
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1216662
Conc: 18.21 µg/ml m

9.1.2

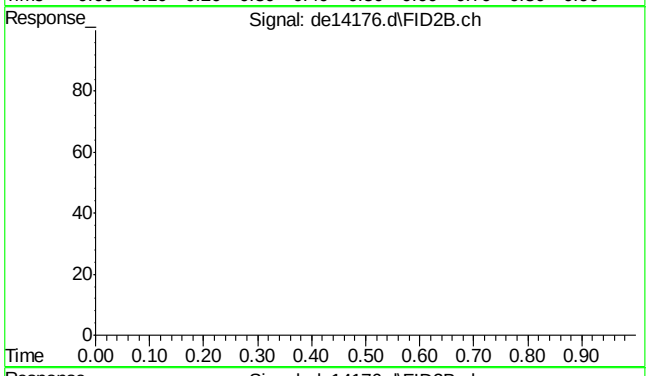
9

SGS ACCUTEST MC45897



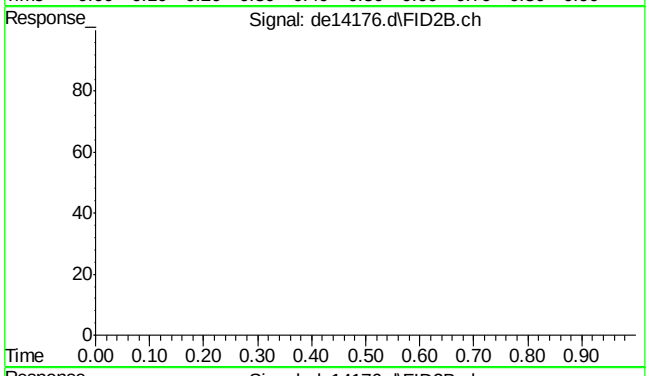
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



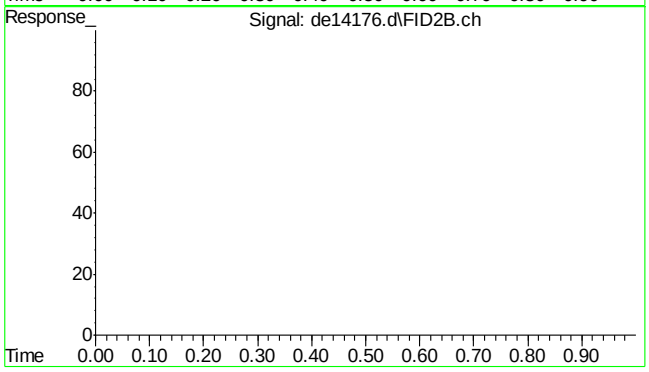
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14177.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 8:43 pm
Operator : thomasa
Sample : mc45897-3A,op47498
Misc : op47498,gde793,870,,,2,,s
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:14:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1620810	17.574 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 87.87%#	
6) s 2-bromonaphthalene	7.333	1117895	17.814 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 89.07%#	
11) s o-terphenyl	9.868	1655859	16.166 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 80.83%#	
35) s 1-chlorooctadecane	11.223	750574	13.267 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 66.33%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2078370	21.164 µg/mlm
25) h c-9	2.647	667374	9.034 µg/mlm
41) h c-36	16.983	1177868	17.631 µg/mlm

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

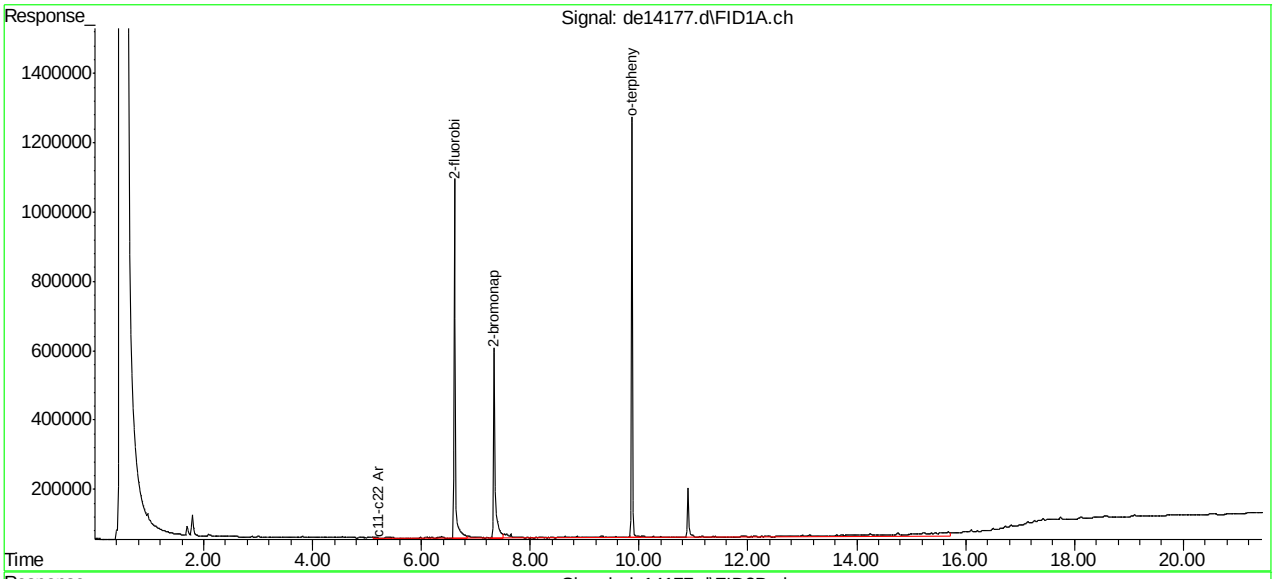
SGS ACCUTEST MC45897

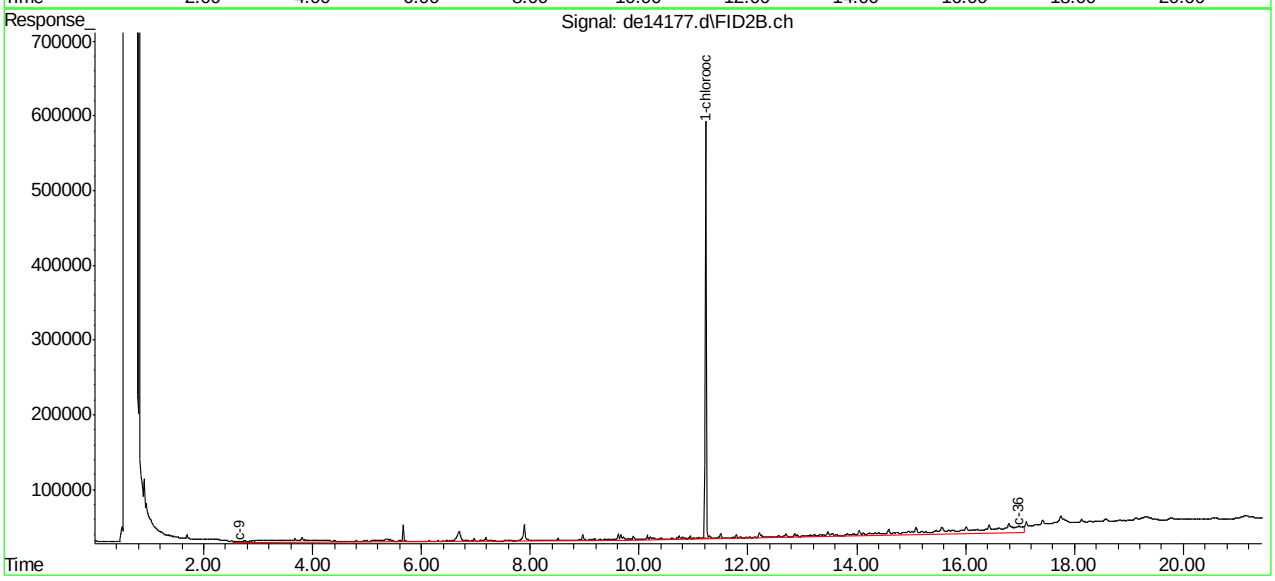
Quantitation Report (QT Reviewed)

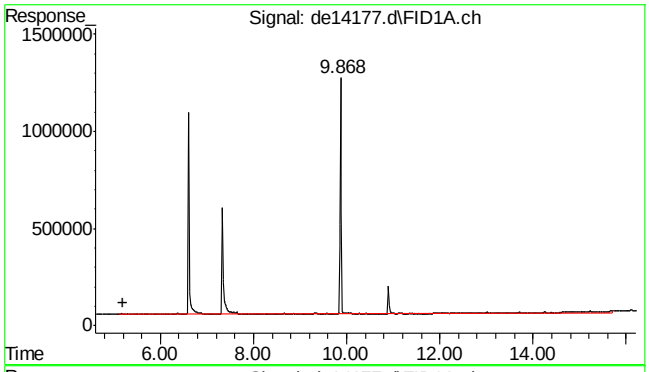
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14177.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 8:43 pm
Operator : thomasa
Sample : mc45897-3A,op47498
Misc : op47498,gde793,870,,,2,,s
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:14:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

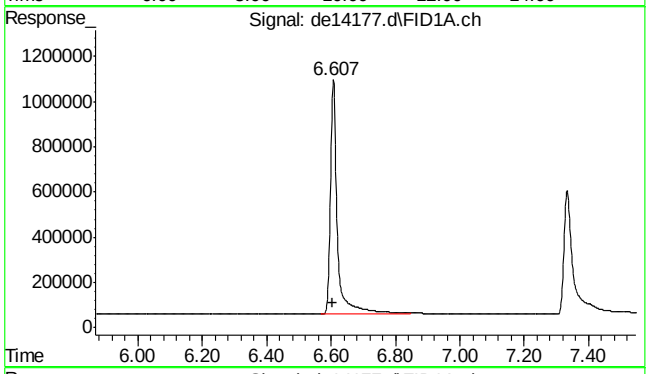






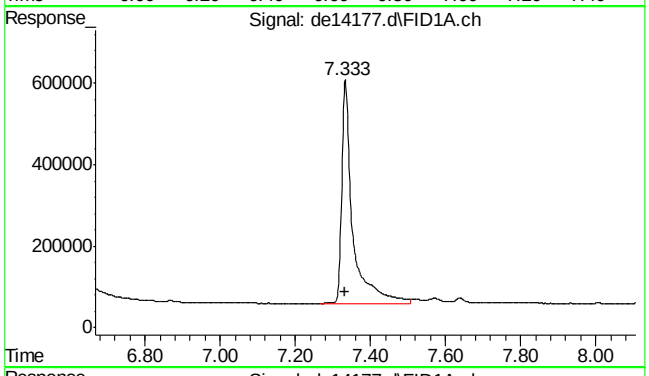
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2078370
Conc: 21.16 µg/ml m



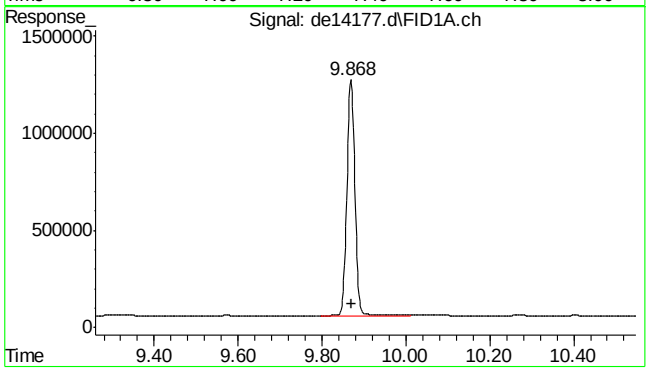
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.003 min
Response: 1620810
Conc: 17.57 µg/ml



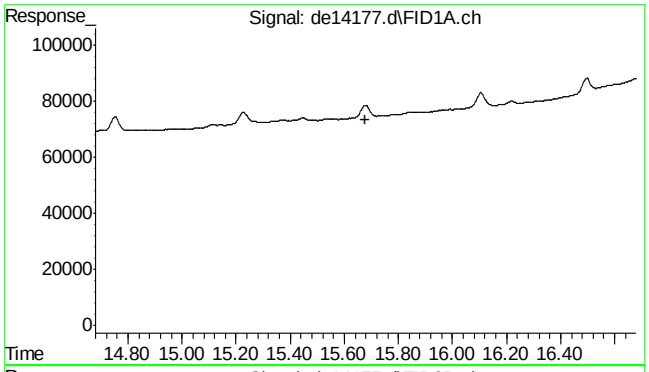
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.002 min
Response: 1117895
Conc: 17.81 µg/ml



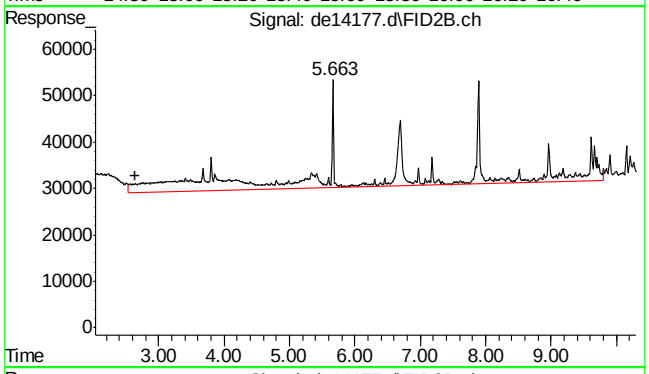
#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.003 min
Response: 1655859
Conc: 16.17 µg/ml



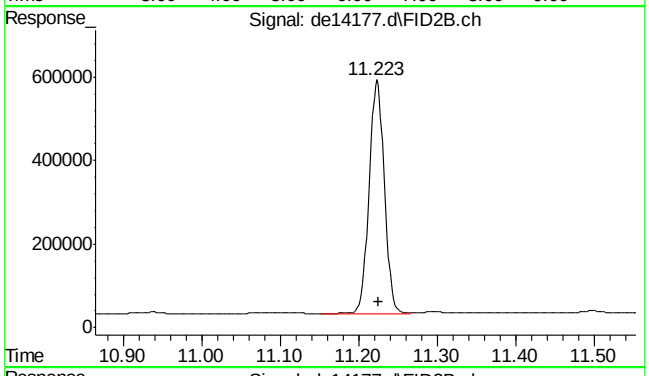
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



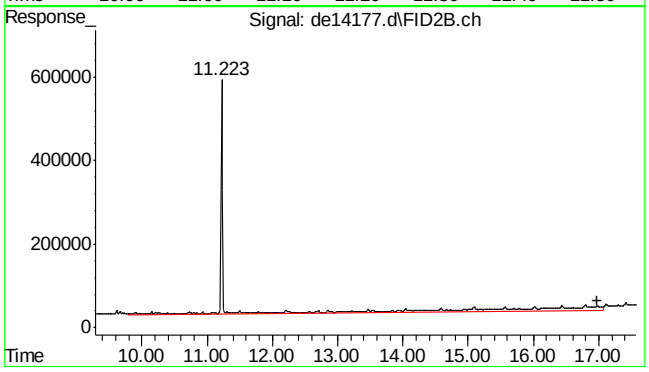
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 667374
Conc: 9.03 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.002 min
Response: 750574
Conc: 13.27 µg/ml



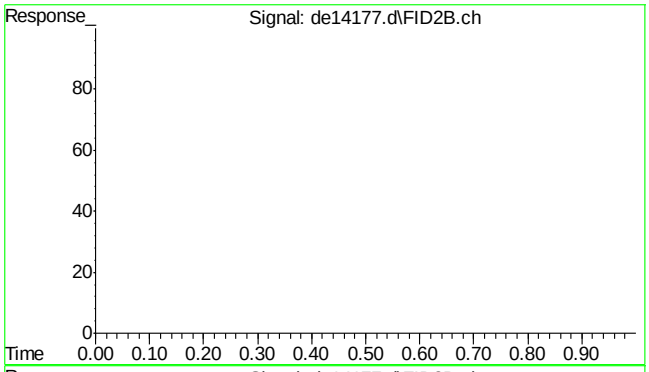
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1177868
Conc: 17.63 µg/ml m

9.1.3

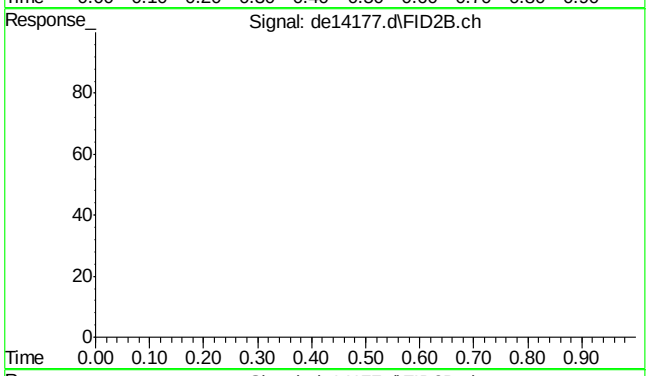
9

SGS ACCUTEST MC45897



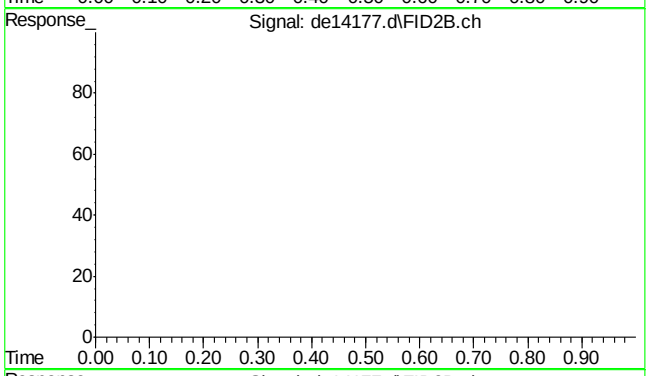
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



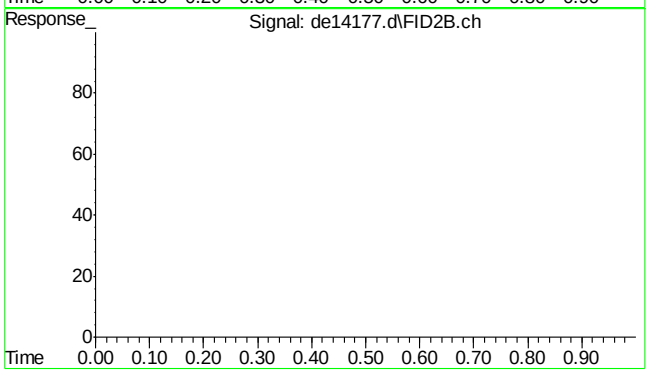
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

```
Data Path : G:\1\DATA\DE160523EPH\
Data File : de14216.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 23 May 2016  10:25 am
Operator  : thomasa
Sample    : mc45897-4A,op47576
Misc      : op47576,gde795,980,,,2,,s
ALS Vial  : 8   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:10:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :

        Compound                      R.T.       Response    Conc Units
 ---------------------------------------------------------------------------

 System Monitoring Compounds
 4) s   2-fluorobiphenyl              6.605        1396839   15.145 µg/ml
Spiked Amount     20.000   Range   8 -  28    Recovery   =   75.72%#
 6) s   2-bromonaphthalene            7.332         985515   15.704 µg/ml
Spiked Amount     20.000   Range   8 -  28    Recovery   =   78.52%#
11) s   o-terphenyl                   9.867        1748757   17.073 µg/ml
Spiked Amount     20.000   Range   8 -  28    Recovery   =   85.37%#
35) s   1-chlorooctadecane           11.223         789427   13.954 µg/ml
Spiked Amount     20.000   Range   8 -  28    Recovery   =   69.77%#

 Target Compounds
 1) h   c11-c22 Aromatics (Un...      5.203        1807176   18.402 µg/mlm
25) h   c-9                           2.647         859161   11.630 µg/mlm
41) h   c-36                         16.983         819357   12.265 µg/mlm
 ---------------------------------------------------------------------------

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

9.1.4

9

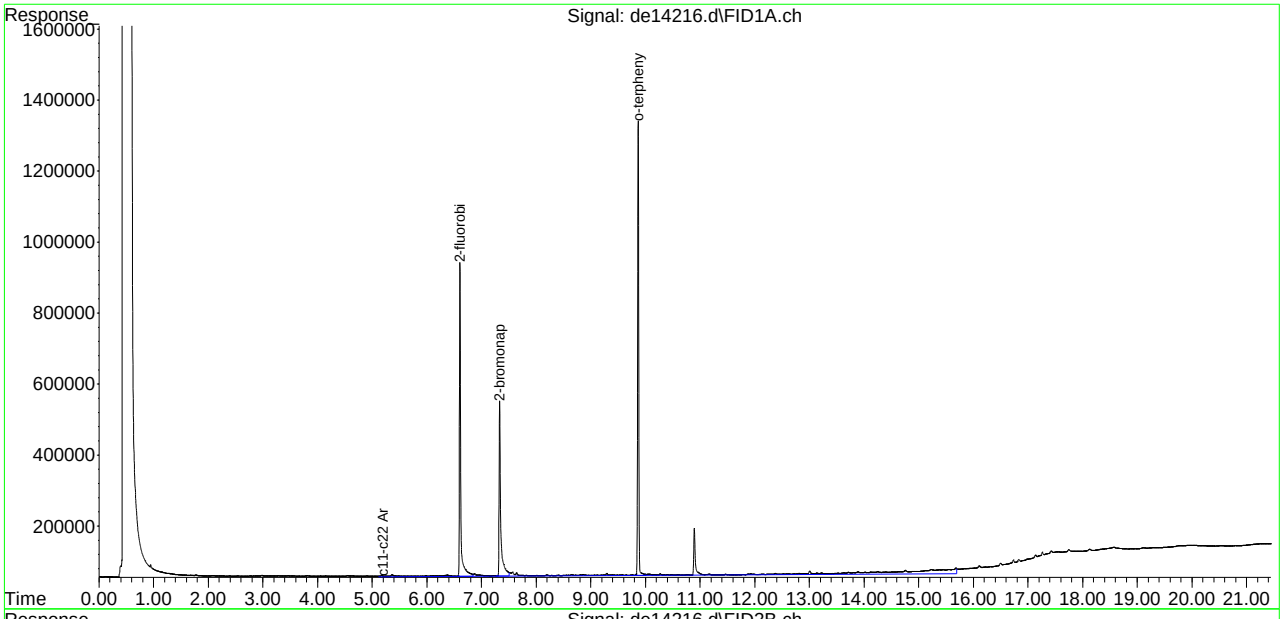
SGS ACCUTEST MC45897

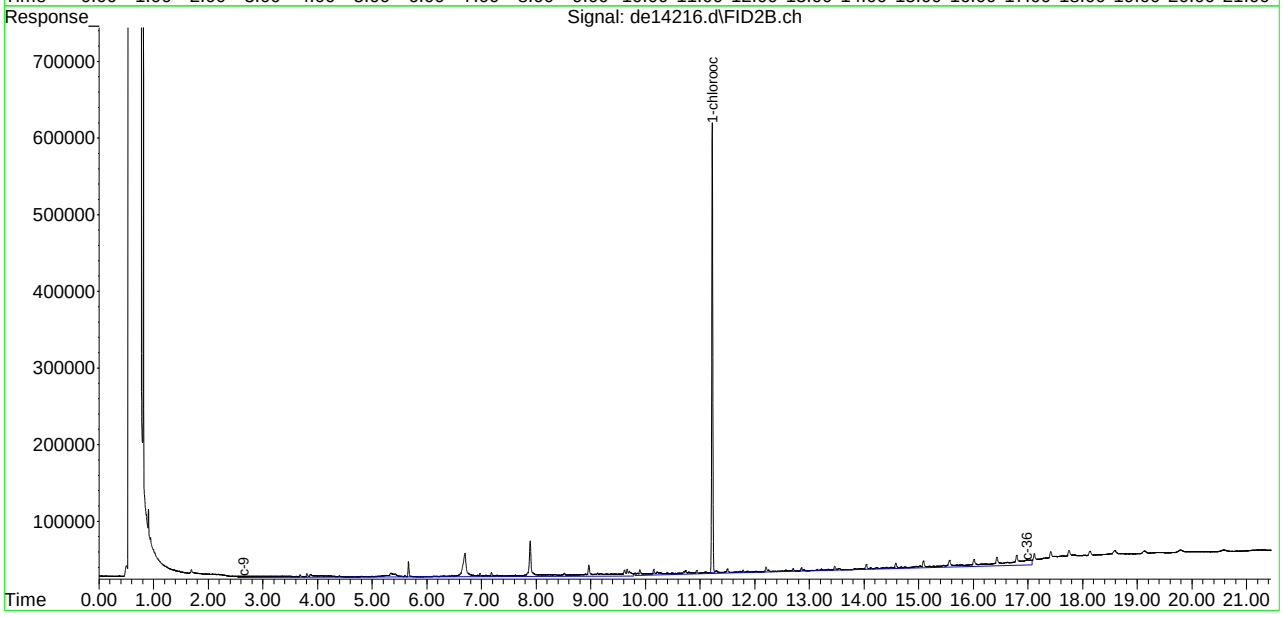
Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160523EPH\
Data File : de14216.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 23 May 2016 10:25 am
Operator : thomasa
Sample : mc45897-4A,op47576
Misc : op47576,gde795,980,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

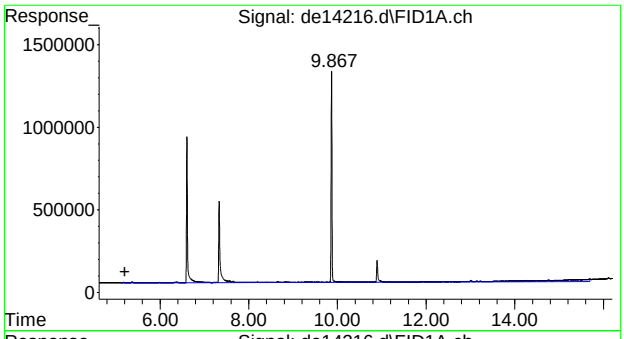
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:10:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



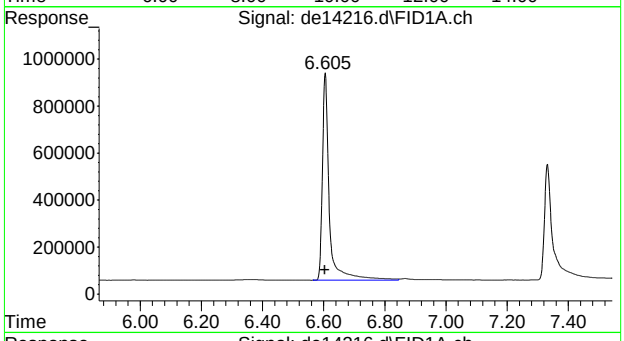


EPH160523W.M Mon May 23 14:14:21 2016 Page: 2



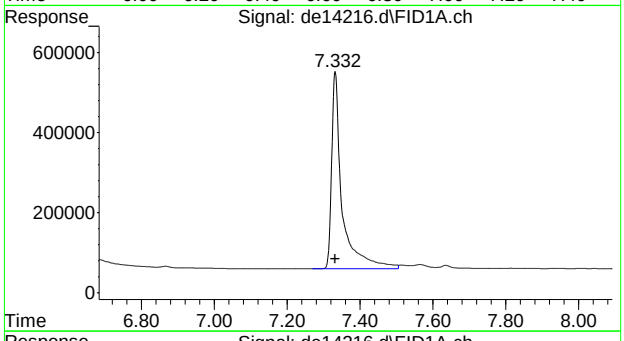
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 1807176
Conc: 18.40 µg/ml m



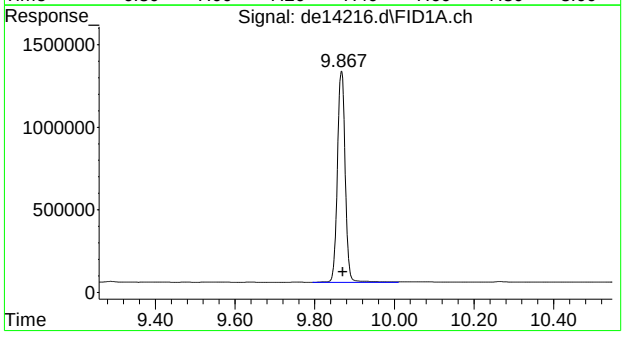
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 1396839
Conc: 15.15 µg/ml



#6 2-bromonaphthalene

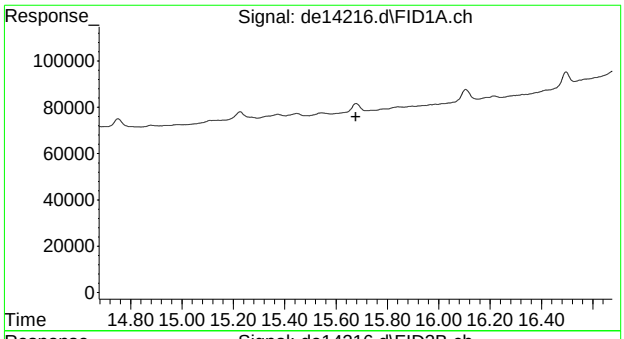
R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 985515
Conc: 15.70 µg/ml



#11 o-terphenyl

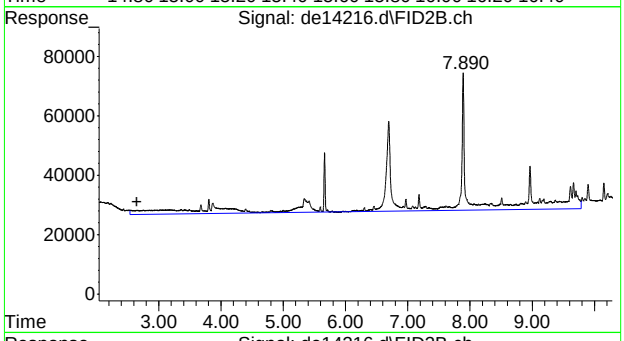
R.T.: 9.867 min
Delta R.T.: -0.003 min
Response: 1748757
Conc: 17.07 µg/ml

SGS ACCUTEST MC45897



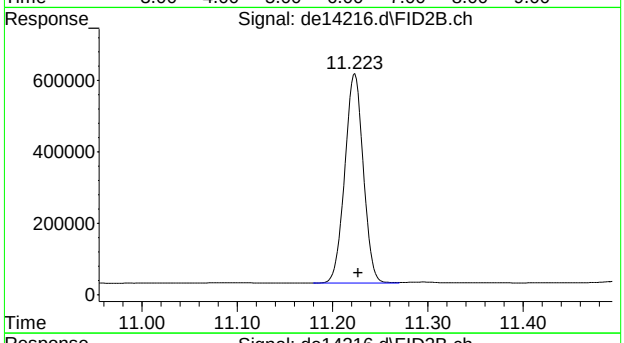
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



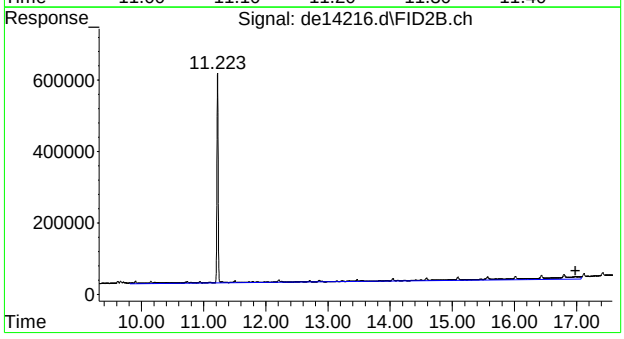
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 859161
Conc: 11.63 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.003 min
Response: 789427
Conc: 13.95 µg/ml



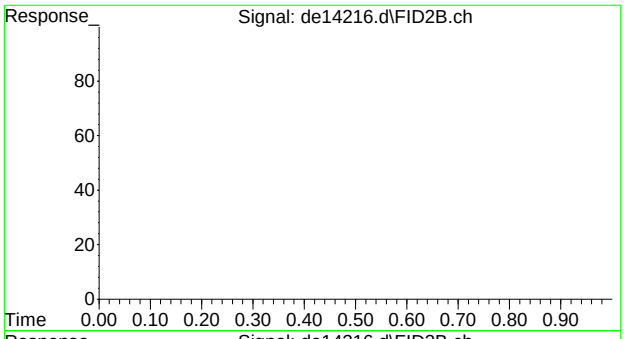
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 819357
Conc: 12.26 µg/ml m

9.1.4

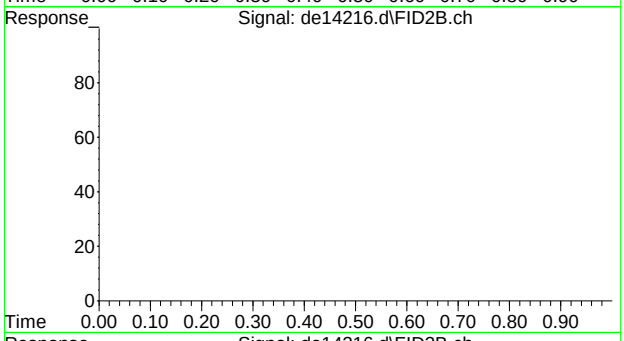
9

SGS ACCUTEST MC45897



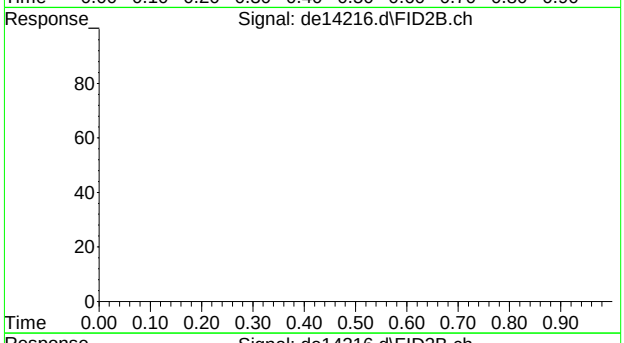
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



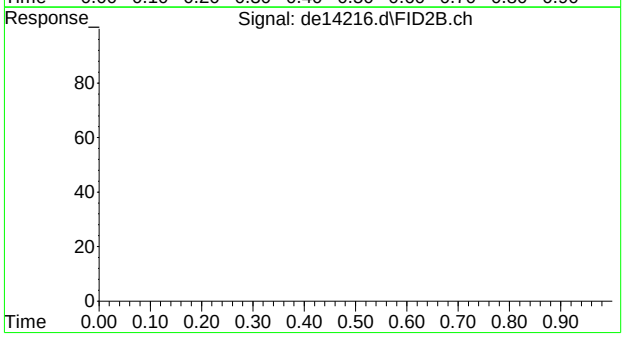
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14179.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 9:39 pm
Operator : thomasa
Sample : mc45897-5A,op47498
Misc : op47498,gde793,880,,,2,,s
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:18:24 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1684104	18.260 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 91.30%#	
6) s 2-bromonaphthalene	7.332	1051712	16.759 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 83.80%#	
11) s o-terphenyl	9.868	1425130	13.914 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 69.57%#	
35) s 1-chlorooctadecane	11.223	694558	12.277 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 61.38%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2202516	22.428 µg/mlm
25) h c-9	2.647	642537	8.698 µg/mlm
41) h c-36	16.983	978825	14.652 µg/mlm

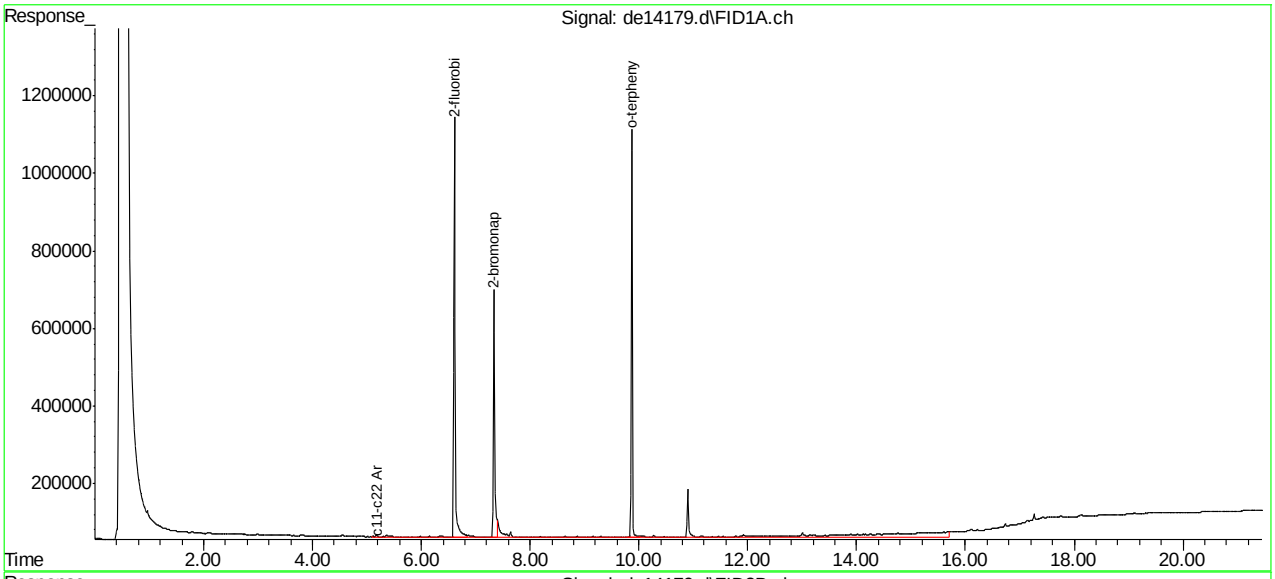
(f)=RT Delta > 1/2 Window (m)=manual int.

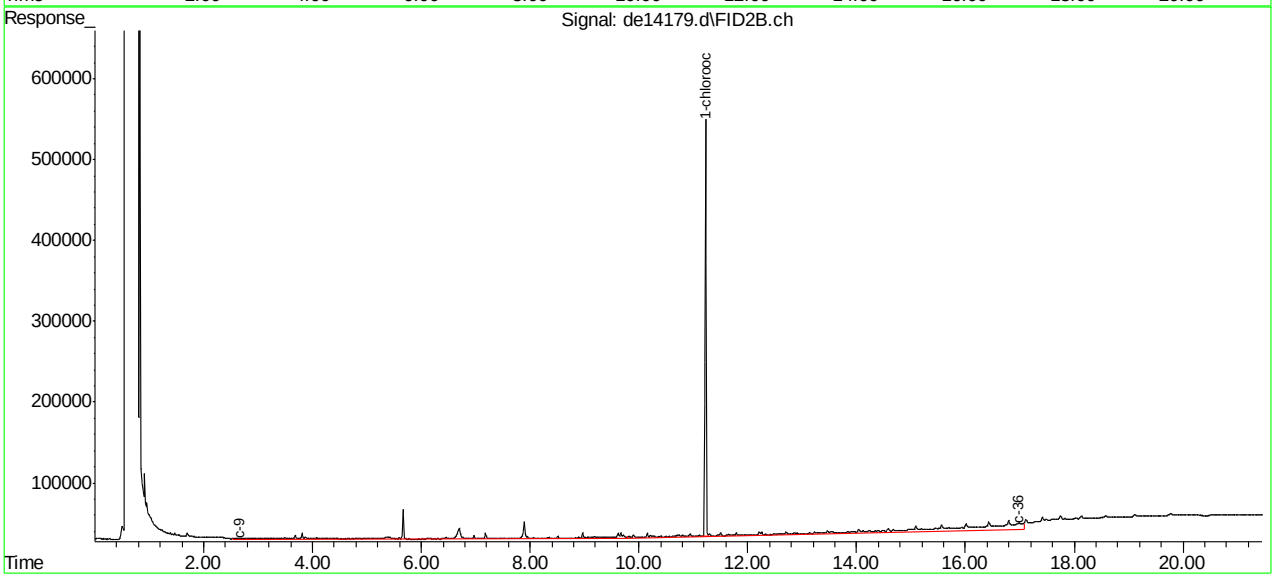
Quantitation Report (QT Reviewed)

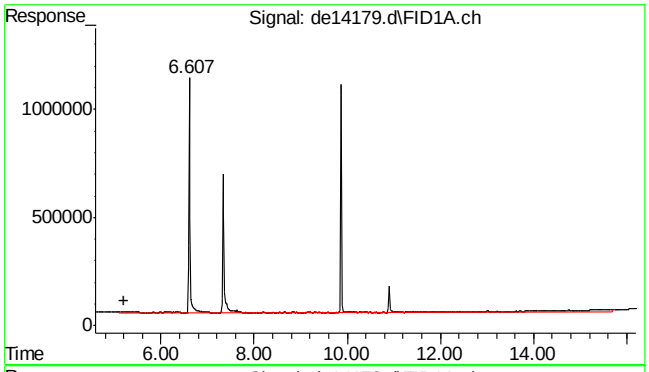
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14179.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 9:39 pm
Operator : thomasa
Sample : mc45897-5A,op47498
Misc : op47498,gde793,880,,,2,,s
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:18:24 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

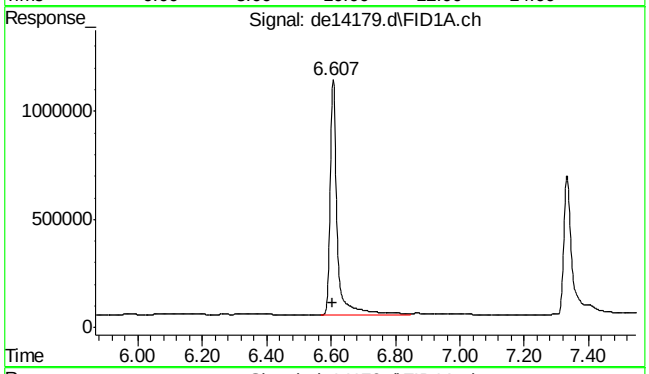






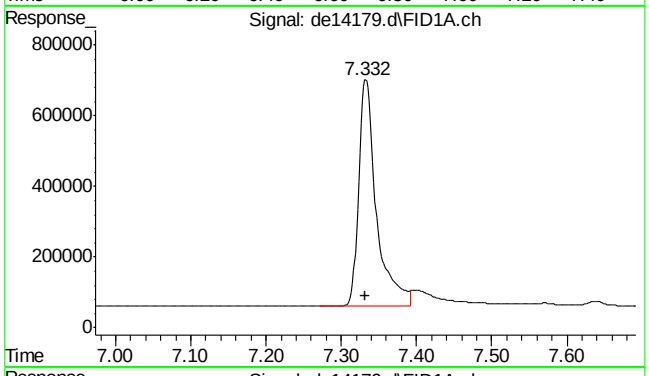
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2202516
Conc: 22.43 µg/ml m



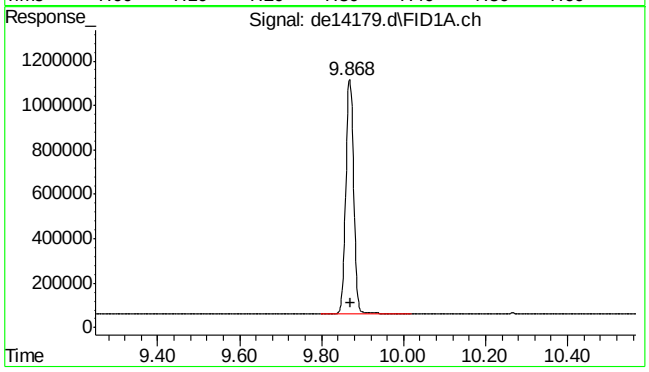
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.003 min
Response: 1684104
Conc: 18.26 µg/ml



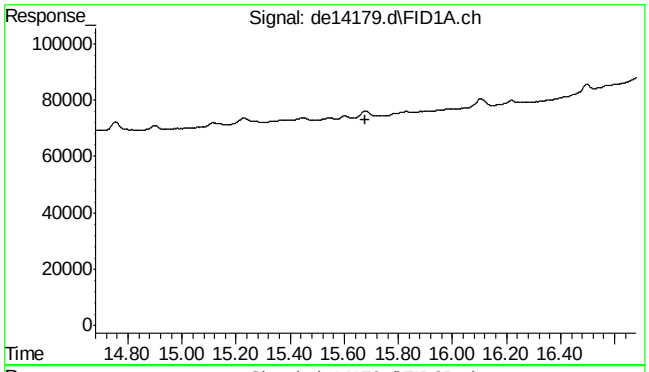
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 1051712
Conc: 16.76 µg/ml



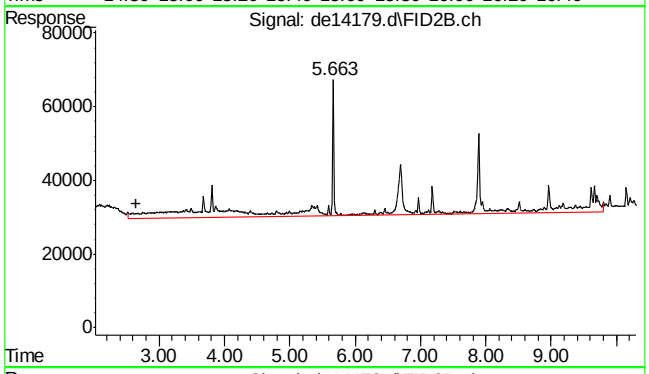
#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.003 min
Response: 1425130
Conc: 13.91 µg/ml



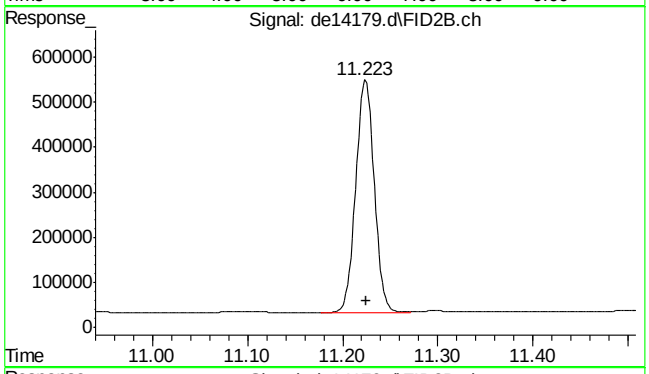
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



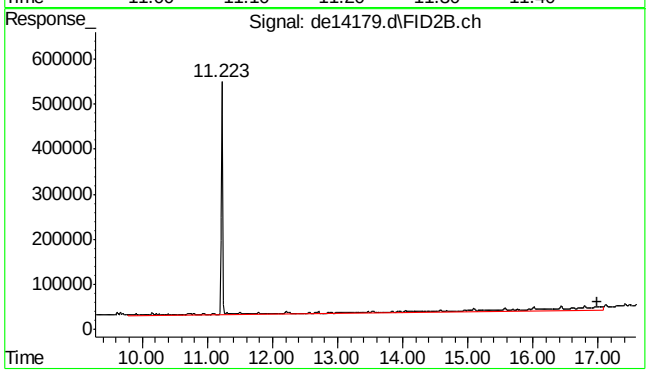
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 642537
Conc: 8.70 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.002 min
Response: 694558
Conc: 12.28 µg/ml



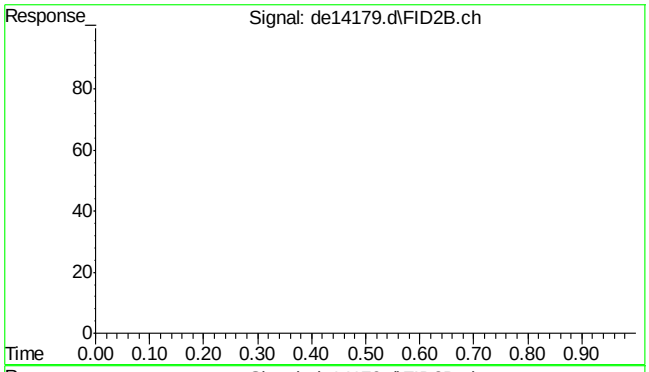
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 978825
Conc: 14.65 µg/ml m

9.1.5

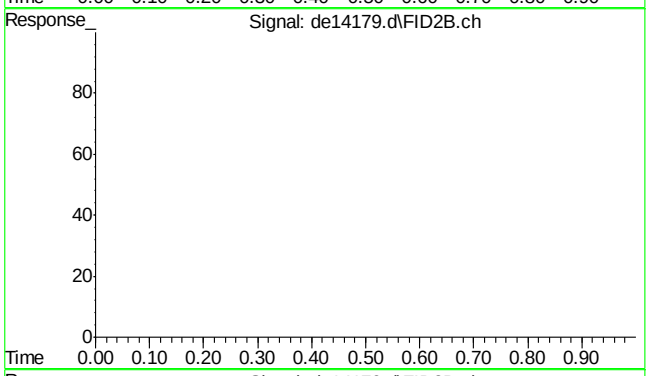
9

SGS ACCUTEST MC45897



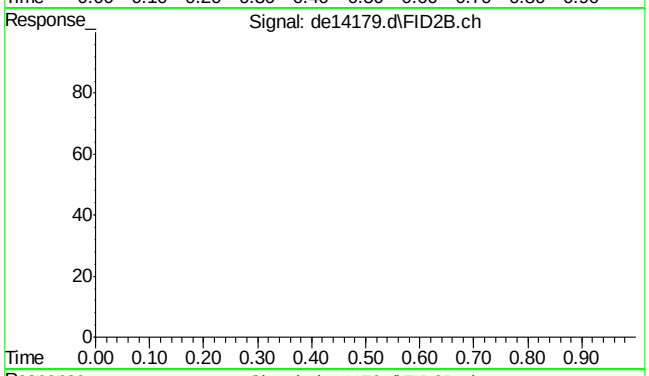
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



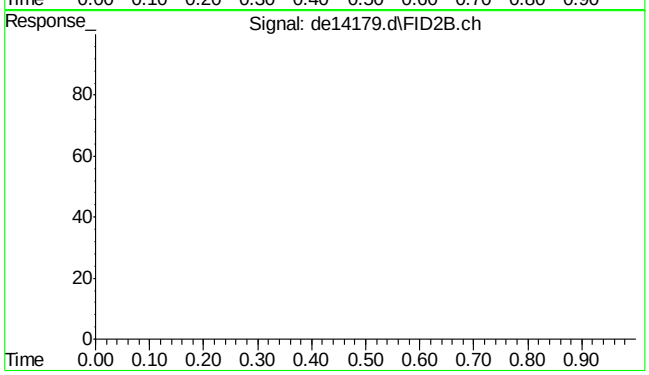
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14180.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 10:08 pm
Operator : thomasa
Sample : mc45897-6A,op47498
Misc : op47498,gde793,880,,,2,,s
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:20:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1574002	17.066 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 85.33%#		
6) s 2-bromonaphthalene	7.333	1086984	17.321 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 86.61%#		
11) s o-terphenyl	9.868	1441484	14.073 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 70.36%#		
35) s 1-chlorooctadecane	11.223	694664	12.279 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 61.39%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	1917033	19.521 µg/mlm
25) h c-9	2.647	564093	7.636 µg/mlm
41) h c-36	16.983	977150	14.627 µg/mlm

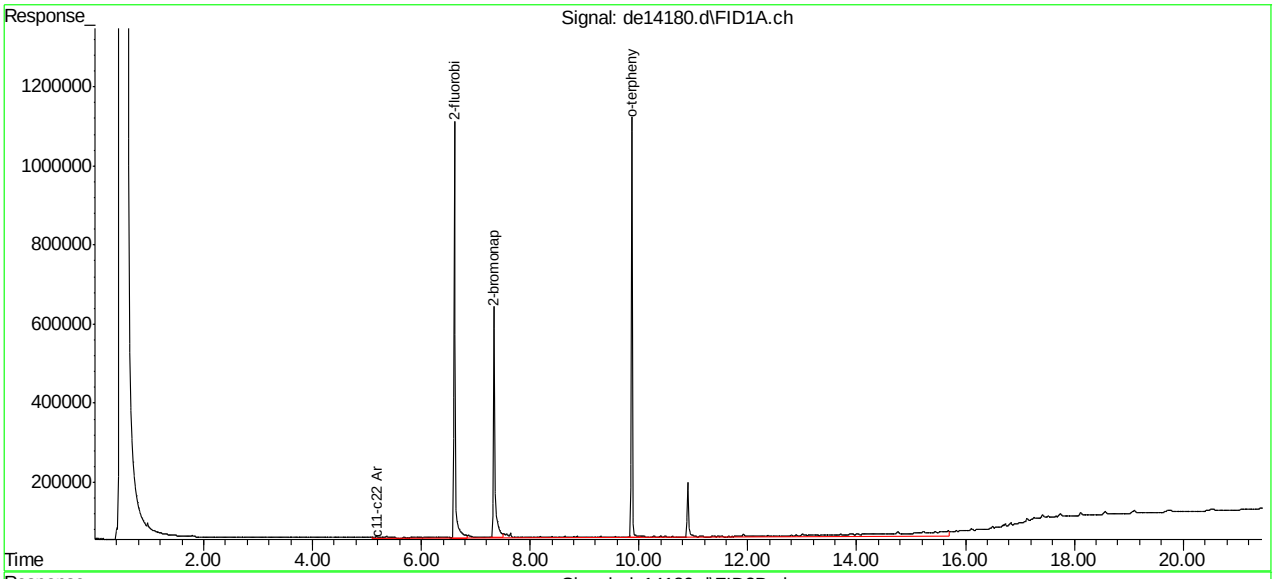
(f)=RT Delta > 1/2 Window (m)=manual int.

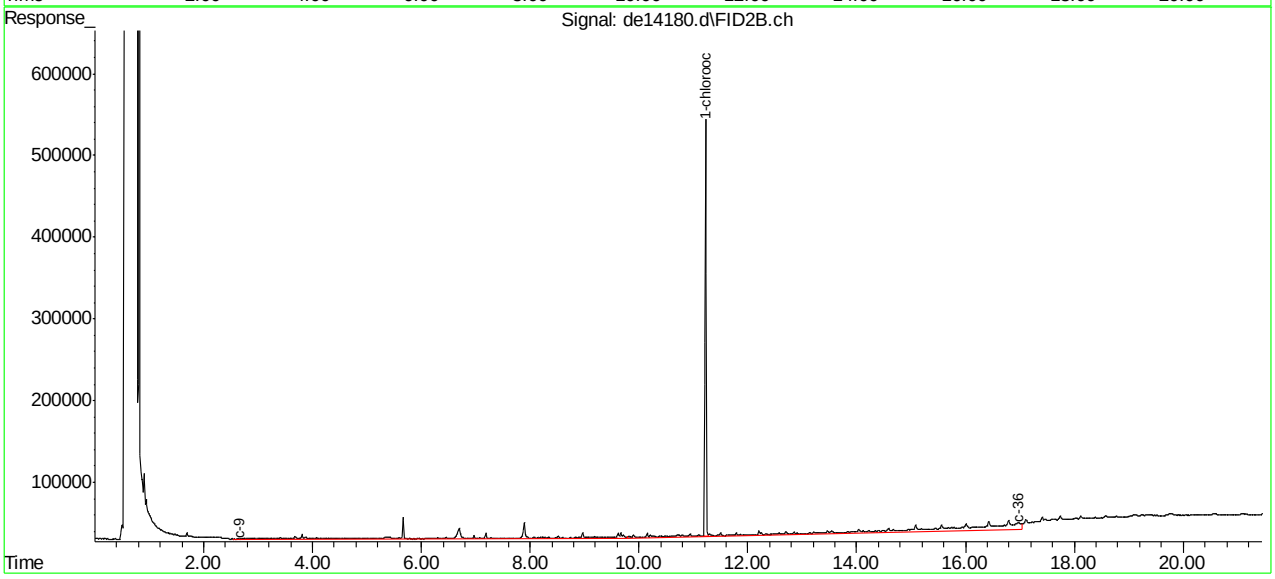
Quantitation Report (QT Reviewed)

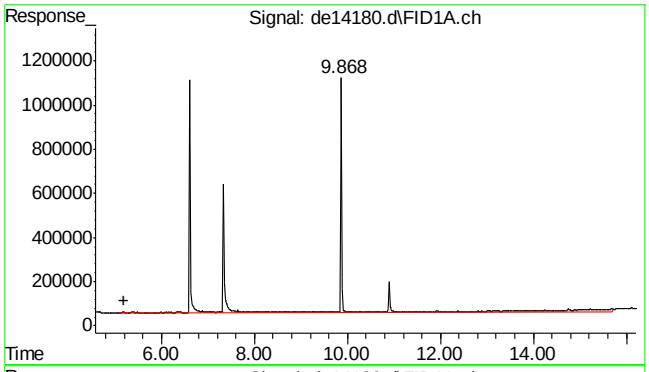
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14180.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 10:08 pm
Operator : thomasa
Sample : mc45897-6A,op47498
Misc : op47498,gde793,880,,,2,,s
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:20:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

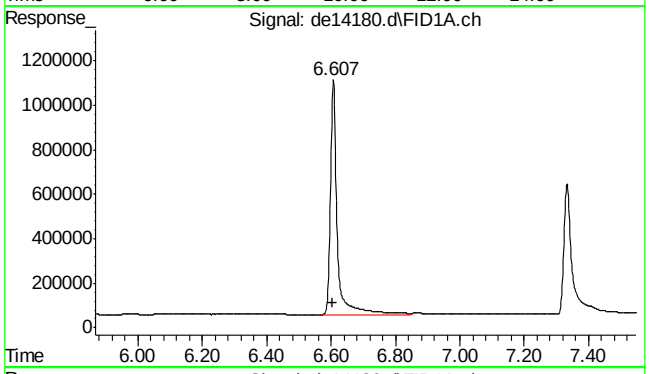






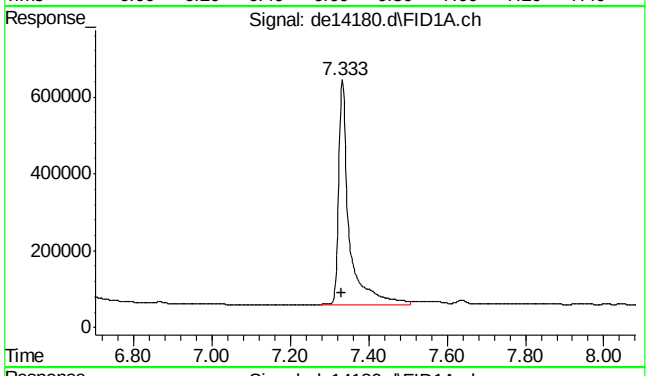
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 1917033
Conc: 19.52 µg/ml m



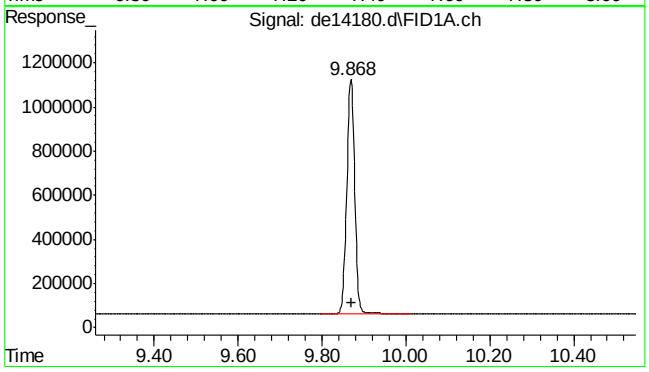
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.003 min
Response: 1574002
Conc: 17.07 µg/ml



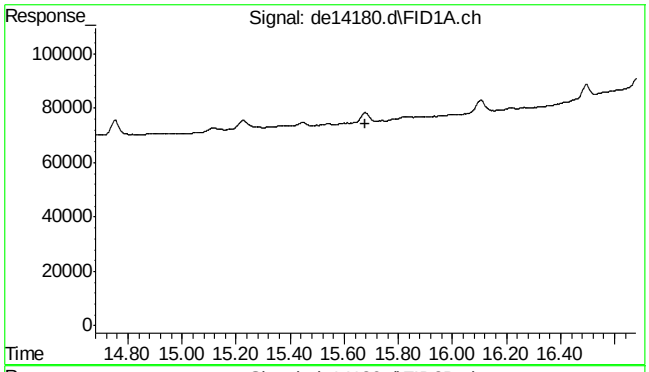
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.002 min
Response: 1086984
Conc: 17.32 µg/ml



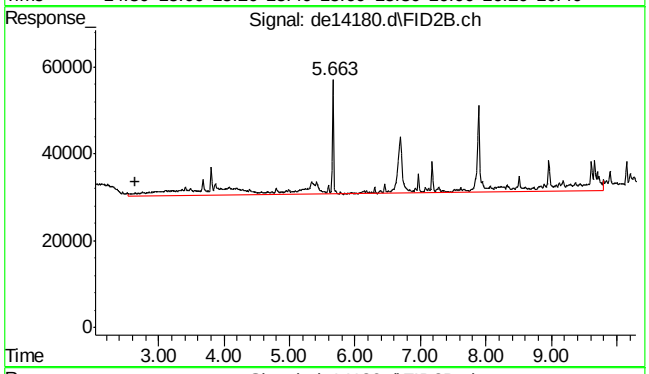
#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.003 min
Response: 1441484
Conc: 14.07 µg/ml



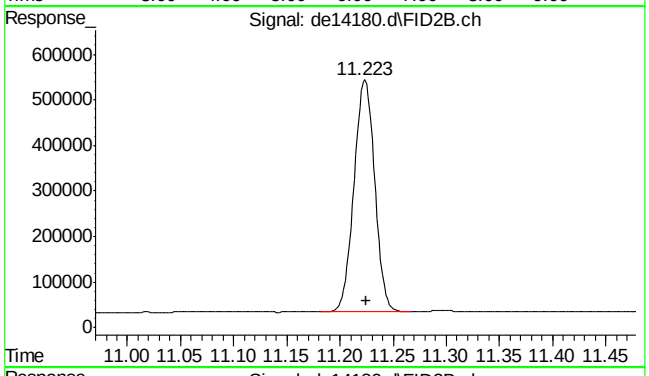
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



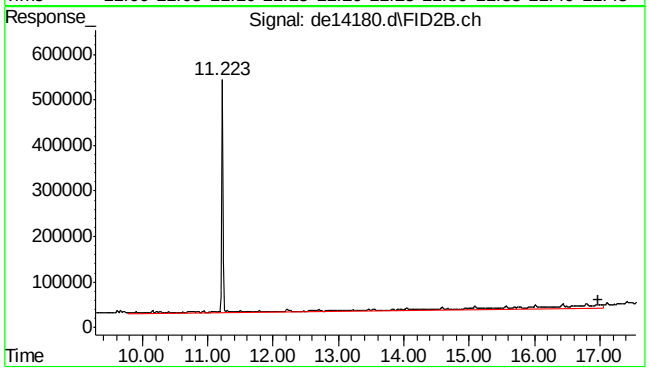
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 564093
Conc: 7.64 µg/ml m



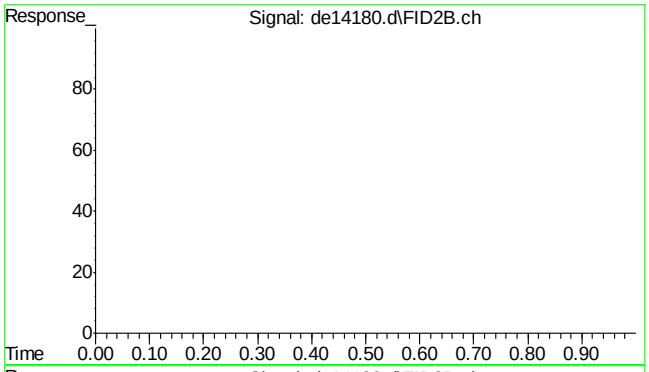
#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.002 min
Response: 694664
Conc: 12.28 µg/ml



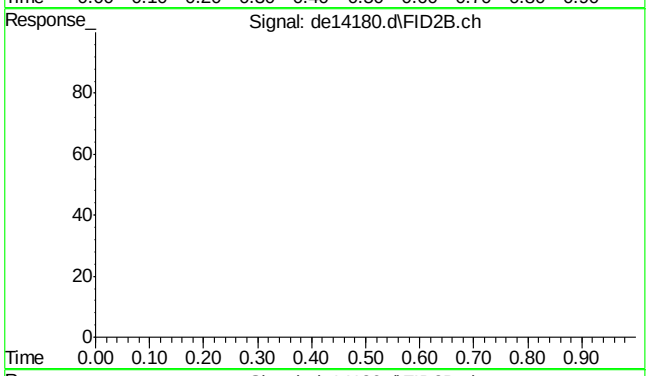
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 977150
Conc: 14.63 µg/ml m



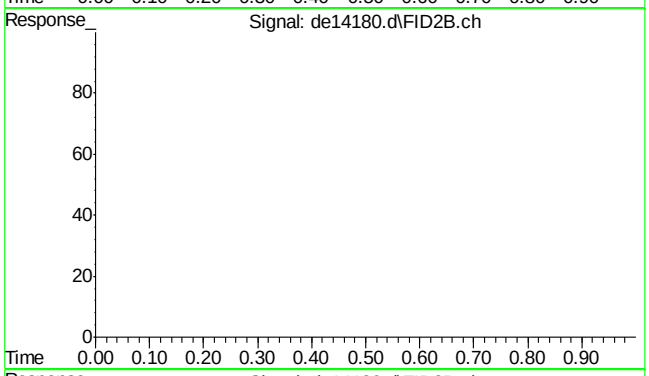
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



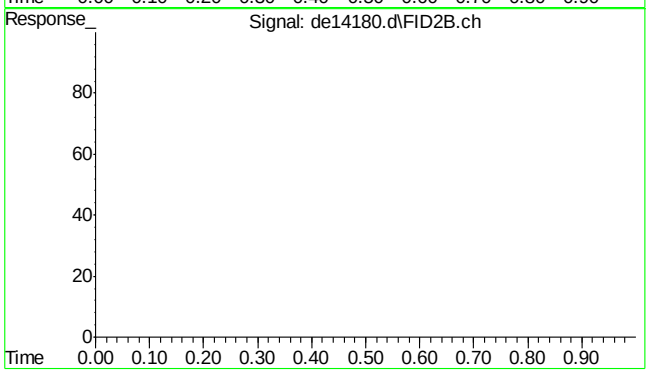
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14164.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 2:35 pm
Operator : thomasa
Sample : op47498-mb
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:39:12 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.605	1632623	17.702 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 88.51%#	
6) s 2-bromonaphthalene	7.332	1122545	17.888 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 89.44%#	
11) s o-terphenyl	9.868	1665602	16.261 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 81.30%#	
35) s 1-chlorooctadecane	11.223	723792	12.794 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 63.97%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	3201788	32.603 µg/mlm
25) h c-9	2.647	814368	11.024 µg/mlm
41) h c-36	16.983	862944	12.917 µg/mlm

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

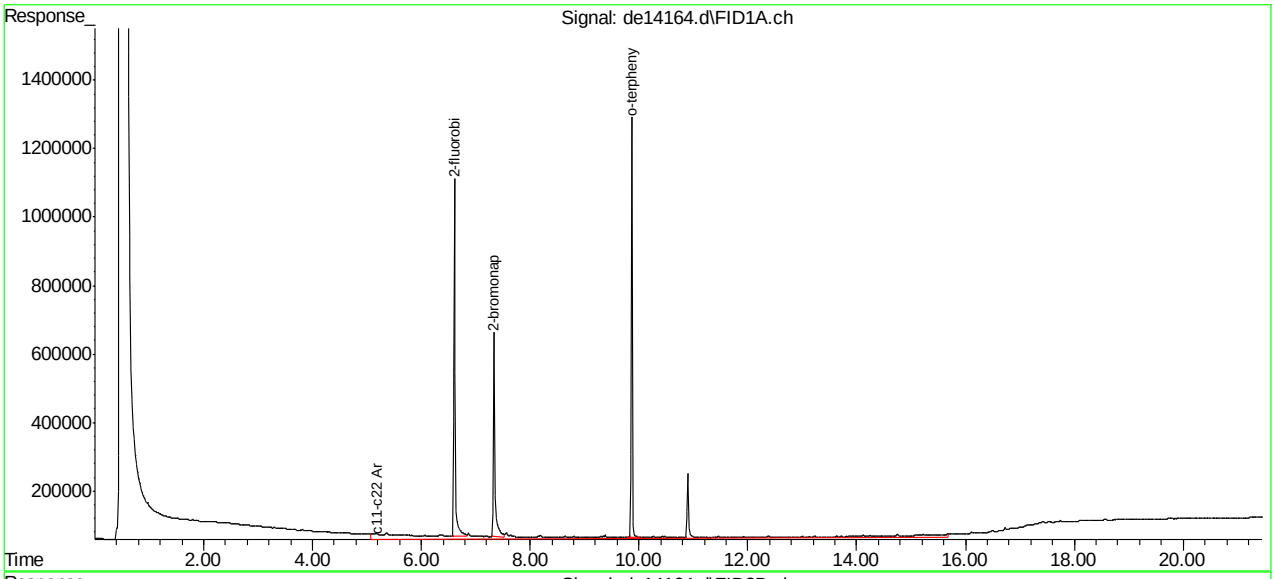
SGS ACCUTEST MC45897

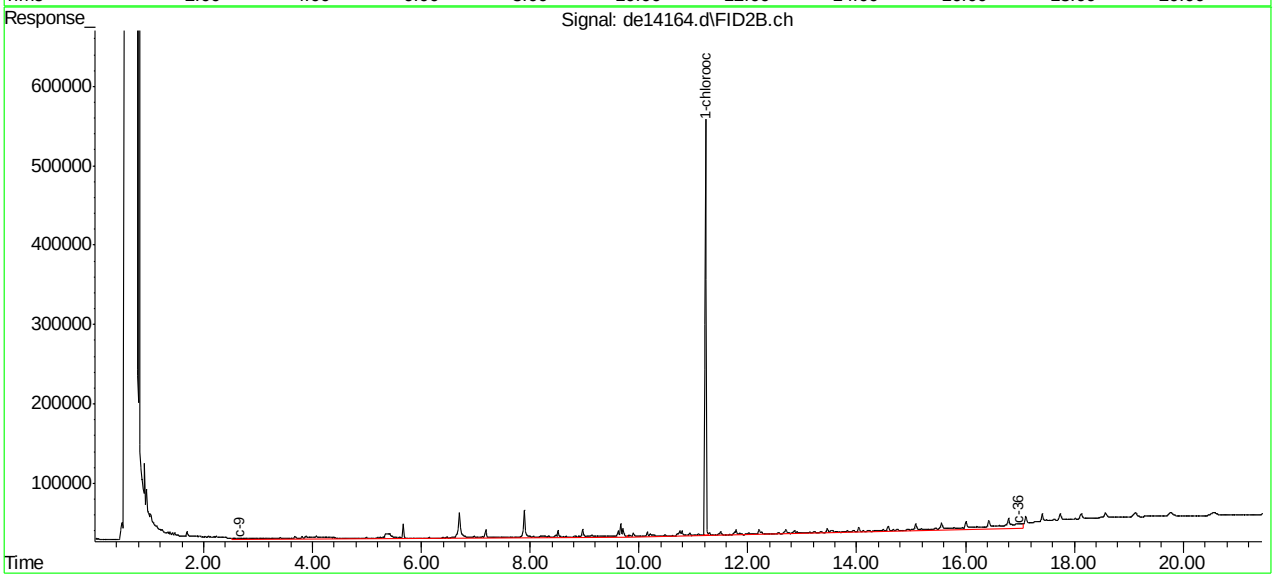
Quantitation Report (QT Reviewed)

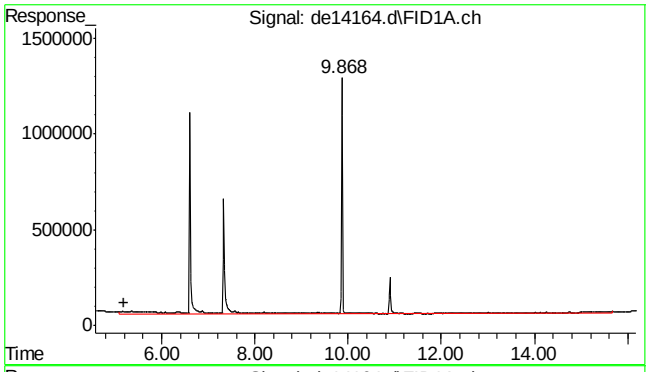
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14164.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 2:35 pm
Operator : thomasa
Sample : op47498-mb
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:39:12 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

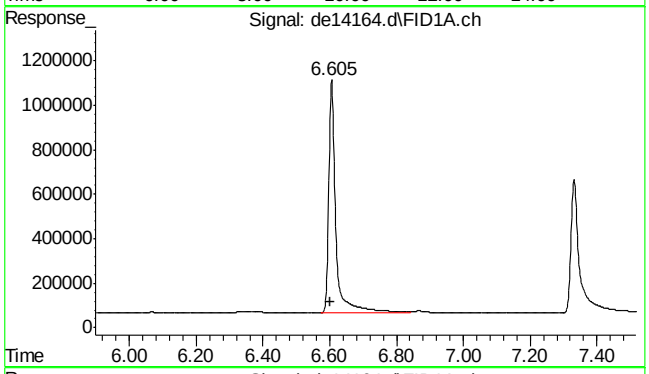






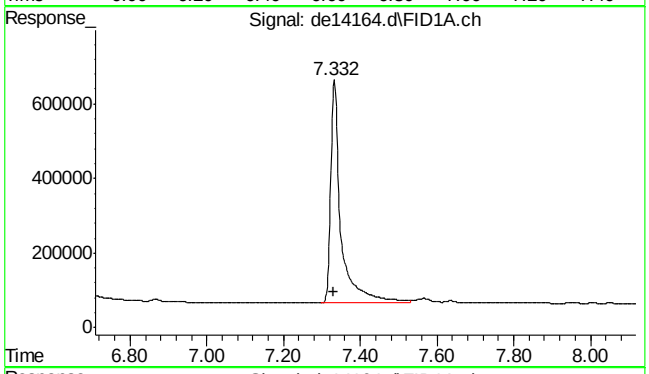
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 3201788
Conc: 32.60 µg/ml m



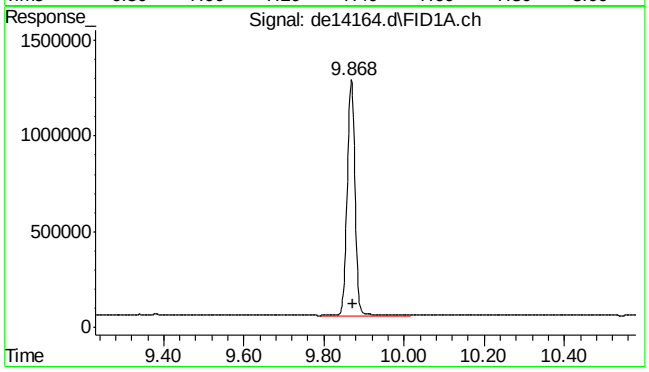
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 1632623
Conc: 17.70 µg/ml



#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 1122545
Conc: 17.89 µg/ml



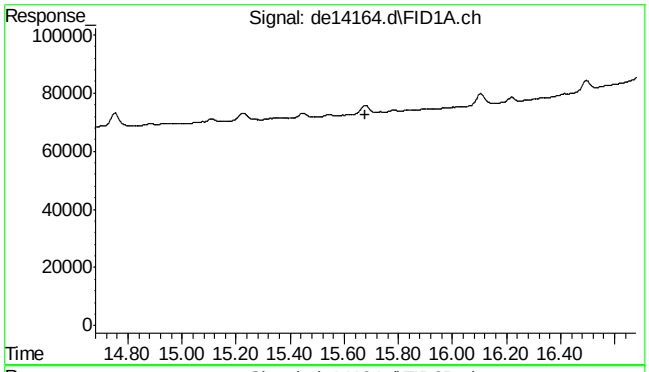
#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.003 min
Response: 1665602
Conc: 16.26 µg/ml

9.2.1

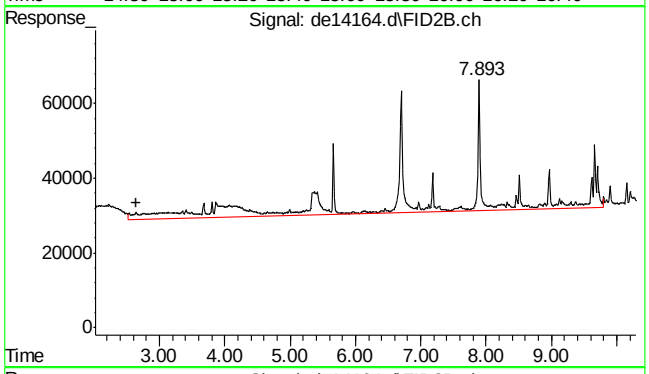
9

SGS ACCUTEST MC45897



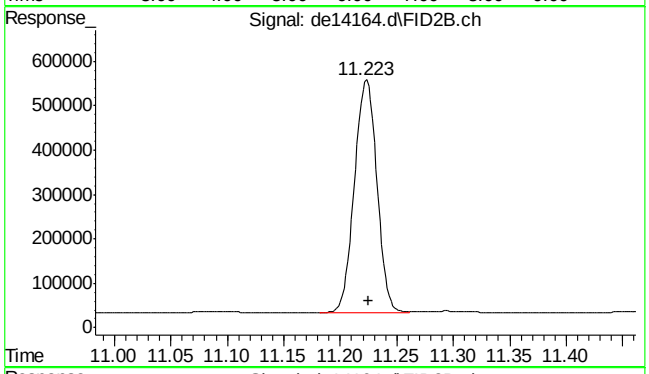
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



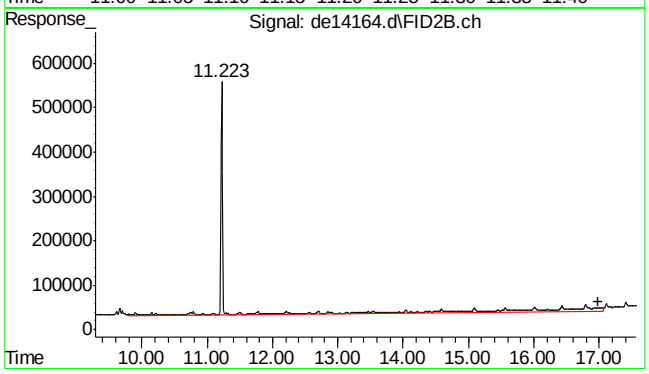
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 814368
Conc: 11.02 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.002 min
Response: 723792
Conc: 12.79 µg/ml



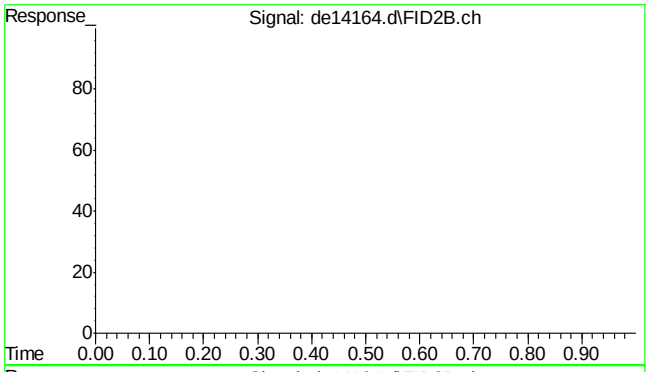
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 862944
Conc: 12.92 µg/ml m

9.2.1

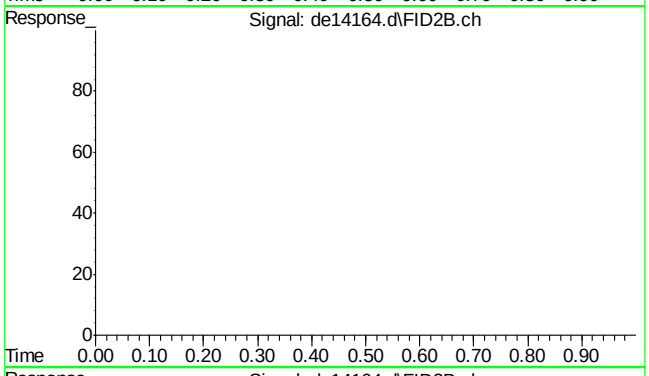
9

SGS ACCUTEST MC45897



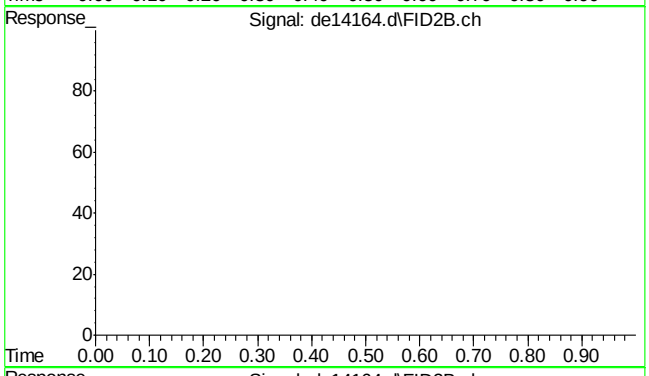
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



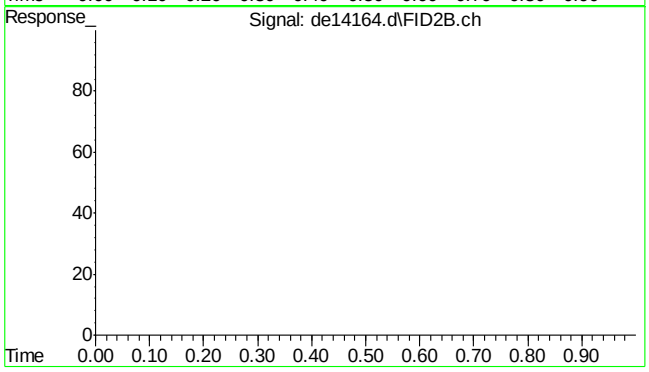
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

```
Data Path : G:\1\DATA\DE160523EPH\
Data File : de14215.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 23 May 2016   9:56 am
Operator  : thomasa
Sample    : op47576-mb
Misc      : op47576,gde795,1000,,,2,,s
ALS Vial  : 6   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:08:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :

        Compound                      R.T.       Response    Conc Units
 ---------------------------------------------------------------------------

 System Monitoring Compounds
 4) s   2-fluorobiphenyl              6.605        1508091   16.351 µg/ml
Spiked Amount     20.000   Range   8 -  28    Recovery   =   81.75%#
 6) s   2-bromonaphthalene            7.332        1044801   16.649 µg/ml
Spiked Amount     20.000   Range   8 -  28    Recovery   =   83.25%#
11) s   o-terphenyl                  9.868        1763336   17.216 µg/ml
Spiked Amount     20.000   Range   8 -  28    Recovery   =   86.08%#
35) s   1-chlorooctadecane          11.223         715429   12.646 µg/ml
Spiked Amount     20.000   Range   8 -  28    Recovery   =   63.23%#

 Target Compounds
 1) h   c11-c22 Aromatics (Un...     5.203        1904974   19.398 µg/mlm
25) h   c-9                          2.647         903048   12.224 µg/mlm
41) h   c-36                        16.983         795410   11.906 µg/mlm
 ---------------------------------------------------------------------------

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

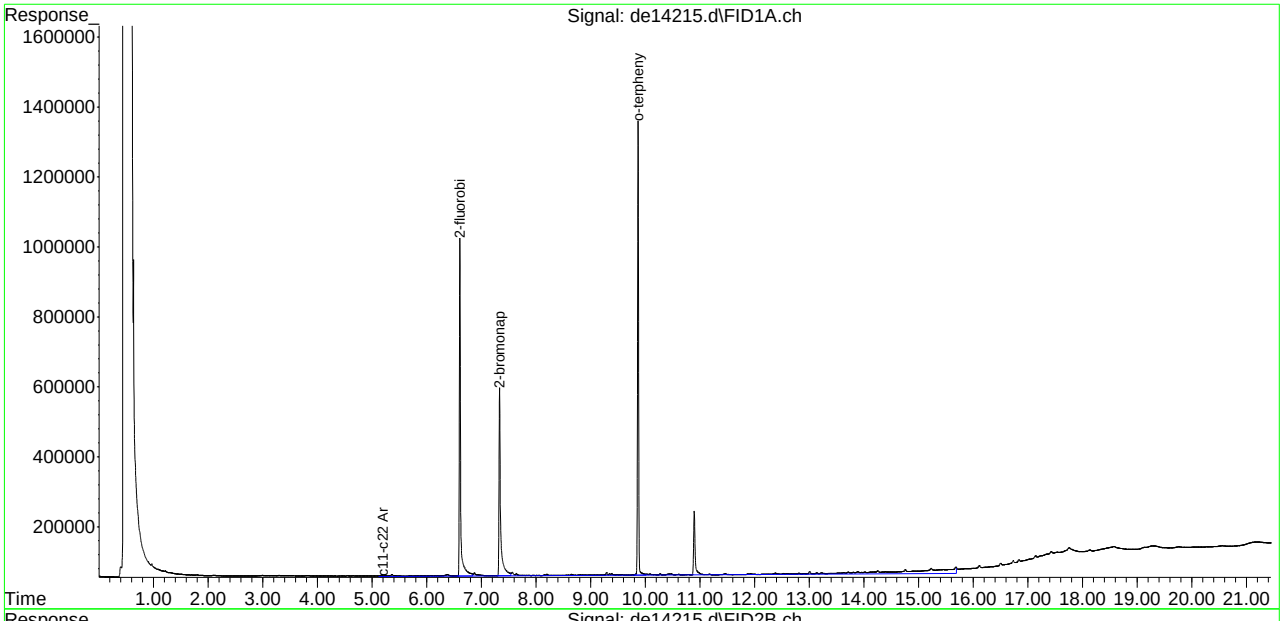

SGS ACCUTEST MC45897

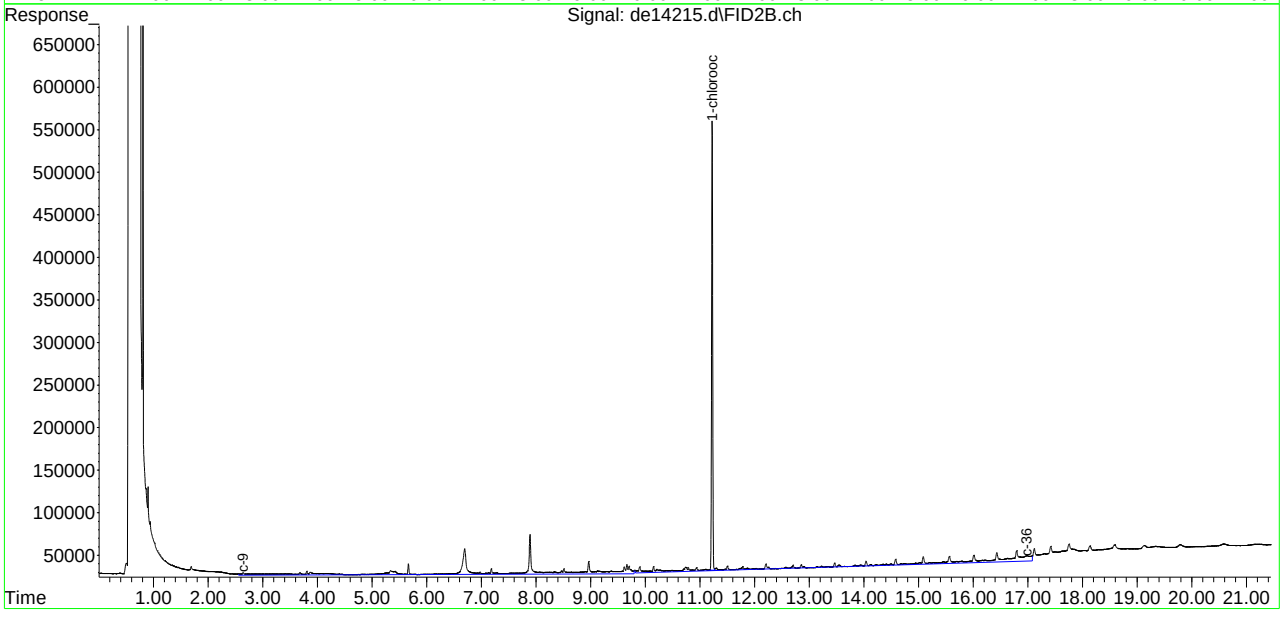
Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160523EPH\
Data File : de14215.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 23 May 2016 9:56 am
Operator : thomasa
Sample : op47576-mb
Misc : op47576,gde795,1000,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

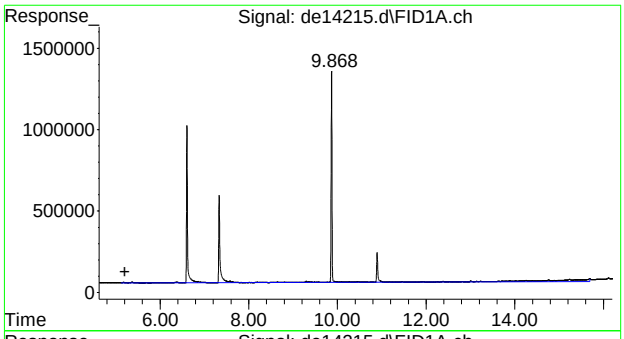
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:08:14 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



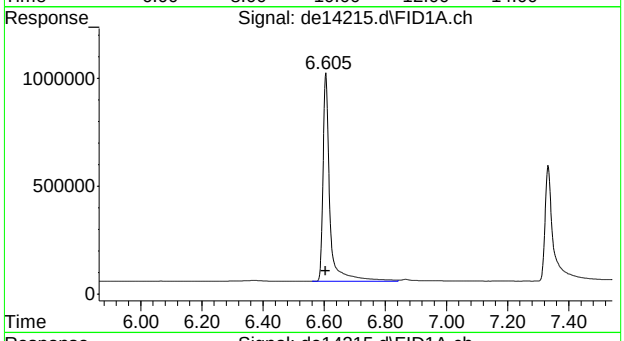


SGS ACCUTEST MC45897



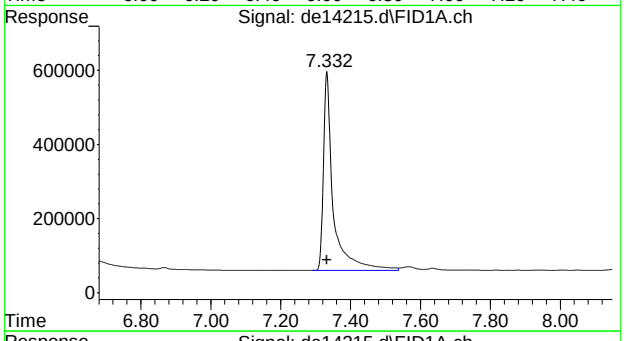
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 1904974
Conc: 19.40 µg/ml m



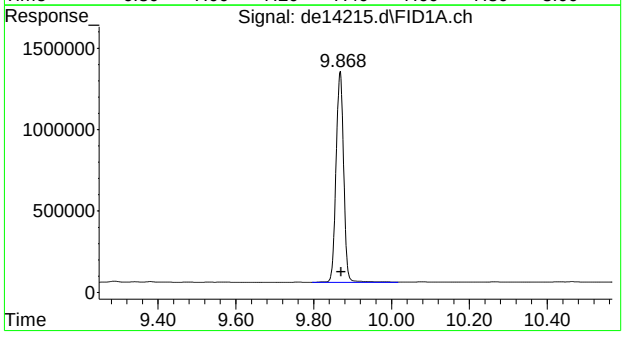
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 1508091
Conc: 16.35 µg/ml



#6 2-bromonaphthalene

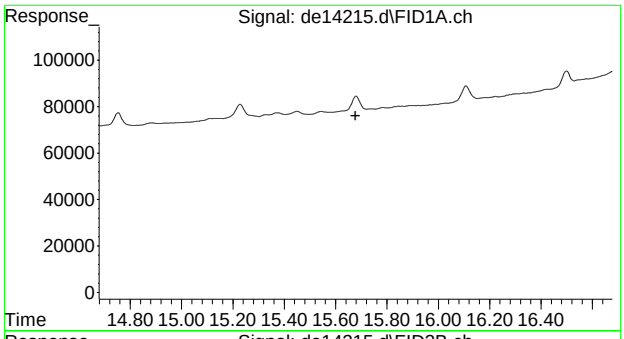
R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 1044801
Conc: 16.65 µg/ml



#11 o-terphenyl

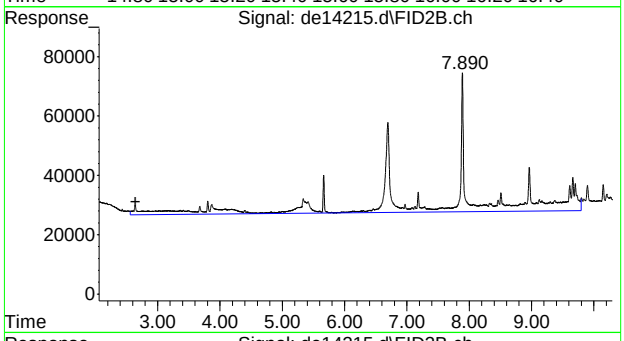
R.T.: 9.868 min
Delta R.T.: -0.002 min
Response: 1763336
Conc: 17.22 µg/ml

SGS ACCUTEST MC45897



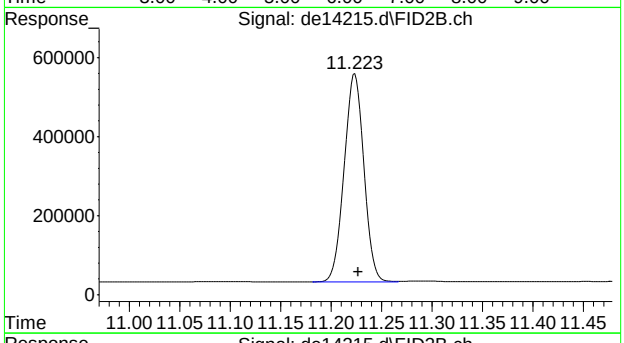
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



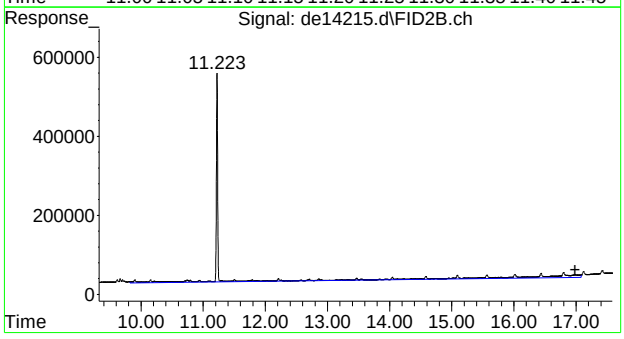
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 903048
Conc: 12.22 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.003 min
Response: 715429
Conc: 12.65 µg/ml



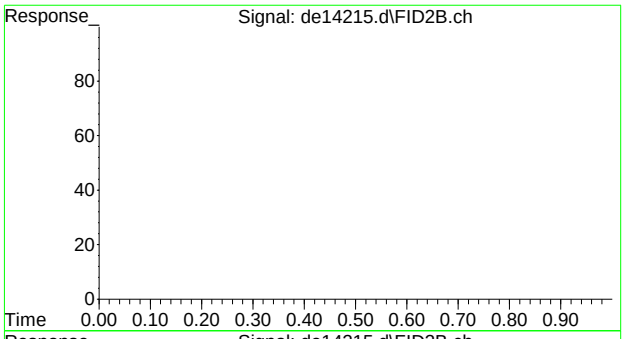
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 795410
Conc: 11.91 µg/ml m

9.2.2

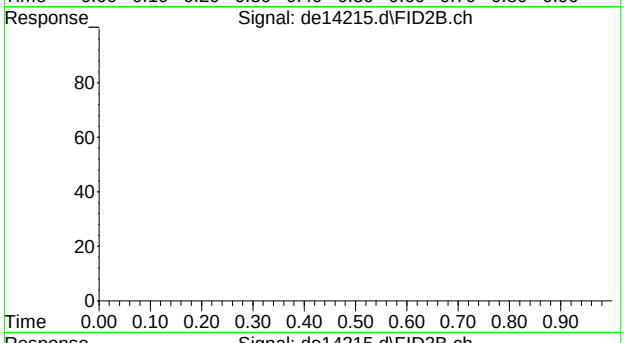
9

SGS ACCUTEST MC45897



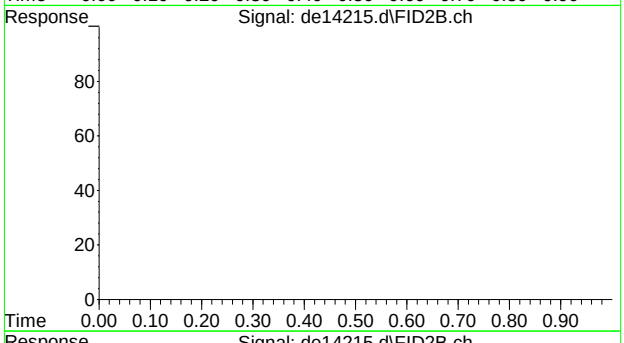
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



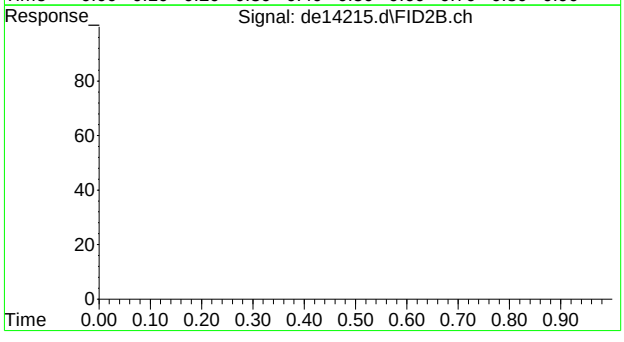
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14165.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 3:03 pm
Operator : thomasa
Sample : op47498-bs
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:39:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1702370	18.458 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 92.29%#	
6) s 2-bromonaphthalene	7.333	1073577	17.107 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 85.53%#	
11) s o-terphenyl	9.870	1733143	16.921 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 84.60%#	
35) s 1-chlorooctadecane	11.223	800205	14.144 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 70.72%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	34291227	349.181 µg/mlm
2) naphthalene	5.155	1471403	14.266 µg/ml
3) 2-methylnaphthalene	6.053	1539076	15.018 µg/ml
5) acenaphthylene	7.165	1622602	16.129 µg/ml
7) acenaphthene	7.405	1899324	18.373 µg/ml
8) fluorene	8.050	1755999	17.289 µg/ml
9) phenanthrene	9.228	1765917	17.353 µg/ml
10) anthracene	9.285	1944554	20.045 µg/ml
12) fluoranthene	10.730	1959134	19.603 µg/ml
13) pyrene	10.987	1966170	19.378 µg/ml
14) benzo(a)anthracene	12.550	1928905	19.952 µg/ml
15) chrysene	12.593	1969835	20.236 µg/ml
16) benzo(B)fluoranthene	13.845	1955020	19.747 µg/ml
17) benzo(k)fluoranthene	13.872	1919011	20.306 µg/ml
18) benzo(a)pyrene	14.178	1899218	20.546 µg/ml
19) indeno(1,2,3-cd)pyrene	15.315	1942754	20.524 µg/ml
20) dibenzo(ah)anthracene	15.358	1862096	20.373 µg/ml
21) benzo(ghi)perylene	15.535	1919981	20.841 µg/ml
25) h c-9	2.647	801347	10.848 µg/mlm
26) h c-10	3.815	1037899	14.050 µg/mlm
28) c-12	5.663	1214519	16.441 µg/ml
30) c-14	7.180	1304638	17.661 µg/ml
31) c-16	8.510	1376788	18.637 µg/ml
32) c-18	9.703	1443212	19.537 µg/ml
33) c-19	10.258	1434627	21.474 µg/ml
34) c-20	10.790	1433247	21.454 µg/ml
36) c-22	11.785	1410076	21.107 µg/ml
37) c-24	12.703	1391528	20.829 µg/ml
38) c-26	13.555	1360403	20.363 µg/ml
39) c-28	14.345	1340923	20.072 µg/ml

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14165.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 3:03 pm
Operator : thomasa
Sample : op47498-bs
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:39:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
40) h c-30	15.098	1314390	19.675 µg/ml
41) h c-36	16.983	1024031	15.328 µg/mlm

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

9.3.1

9

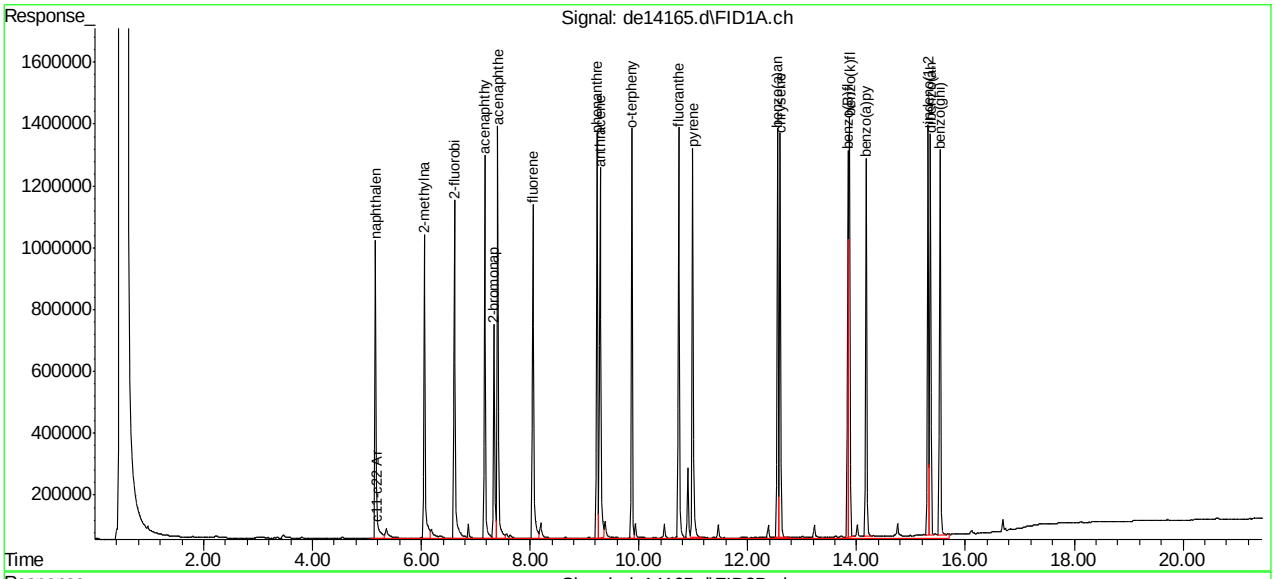
SGS ACCUTEST MC45897

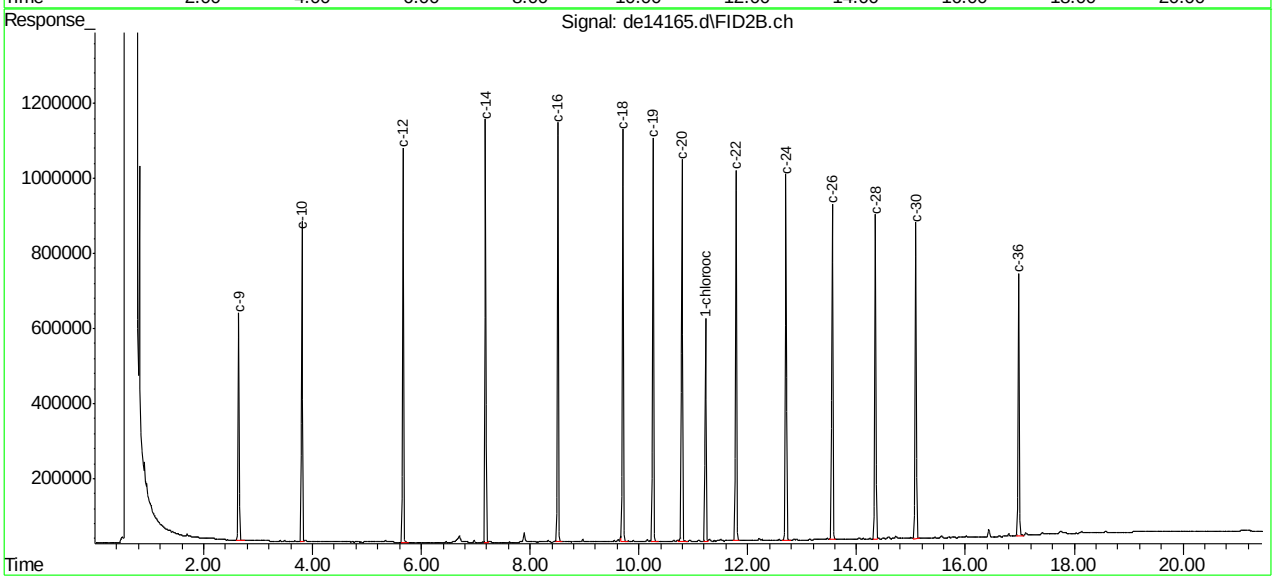
Quantitation Report (QT Reviewed)

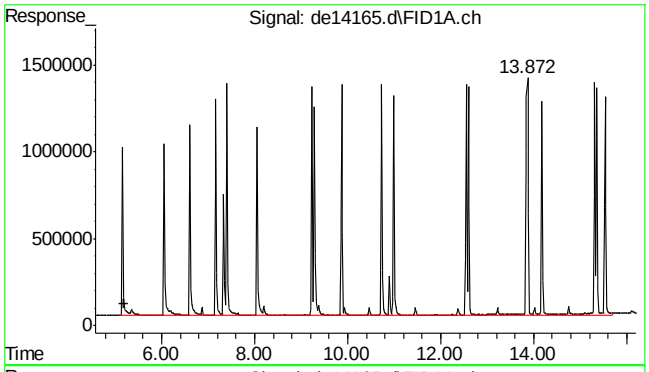
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14165.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 3:03 pm
Operator : thomasa
Sample : op47498-bs
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:39:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

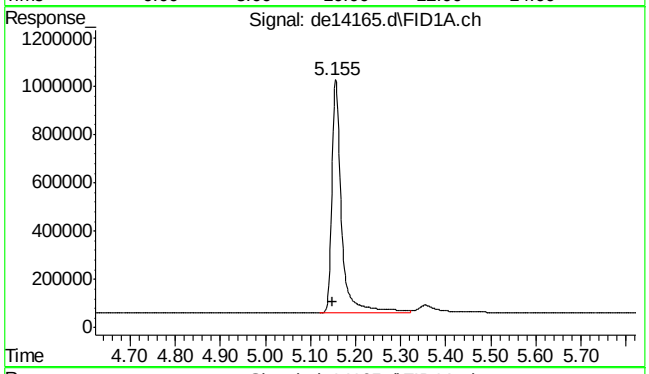






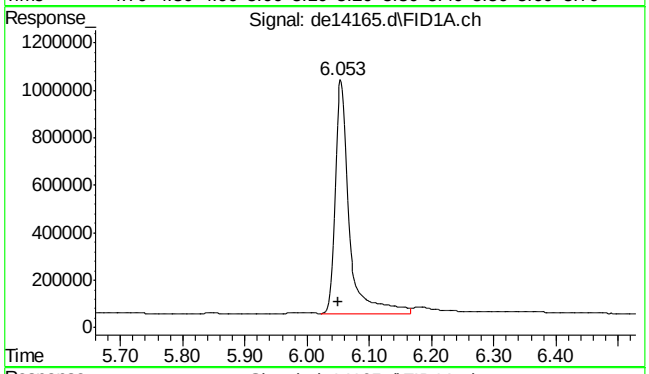
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 34291227
Conc: 349.18 µg/ml m



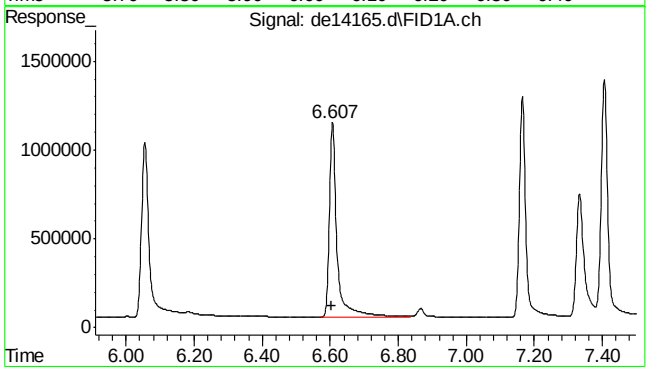
#2 naphthalene

R.T.: 5.155 min
Delta R.T.: 0.005 min
Response: 1471403
Conc: 14.27 µg/ml



#3 2-methylnaphthalene

R.T.: 6.053 min
Delta R.T.: 0.003 min
Response: 1539076
Conc: 15.02 µg/ml



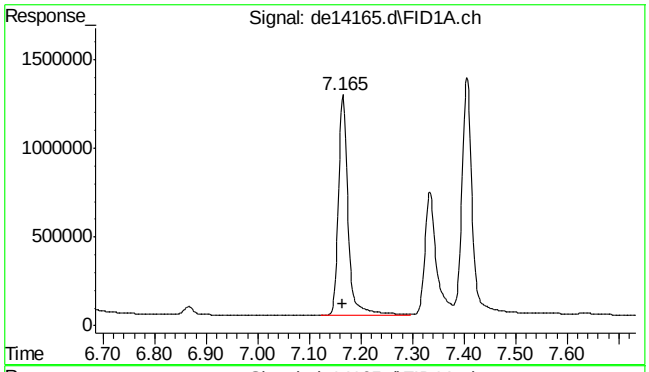
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.003 min
Response: 1702370
Conc: 18.46 µg/ml

9.3.1

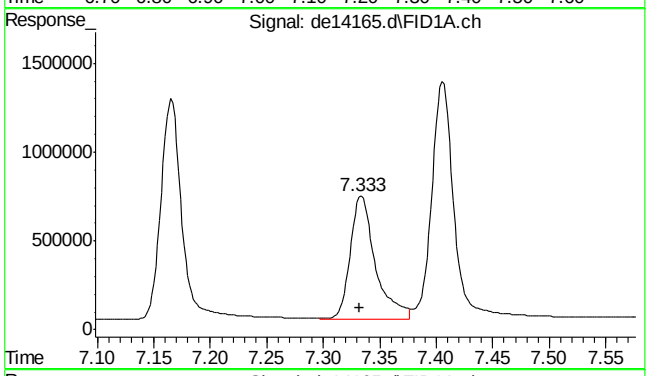
9

SGS ACCUTEST MC45897



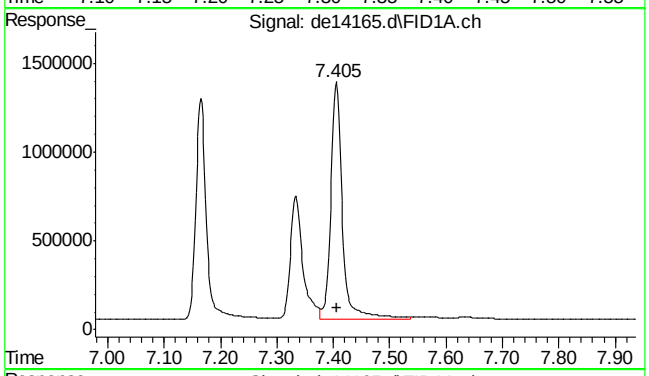
#5 acenaphthylene

R.T.: 7.165 min
Delta R.T.: 0.000 min
Response: 1622602
Conc: 16.13 µg/ml



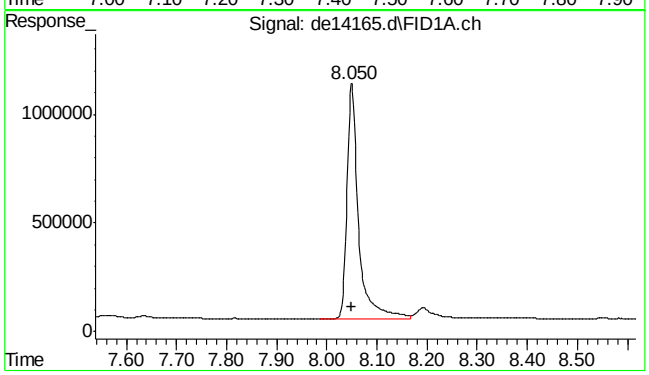
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.002 min
Response: 1073577
Conc: 17.11 µg/ml



#7 acenaphthene

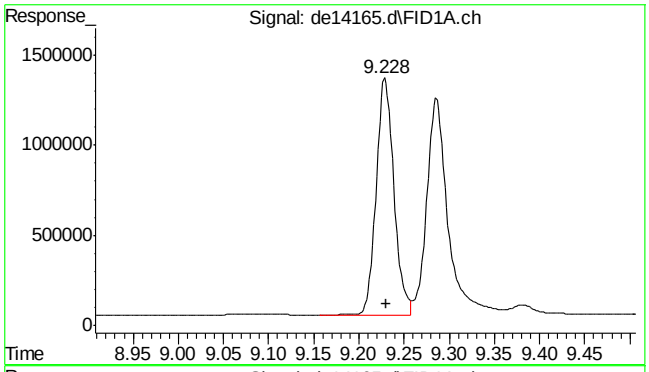
R.T.: 7.405 min
Delta R.T.: -0.002 min
Response: 1899324
Conc: 18.37 µg/ml



#8 fluorene

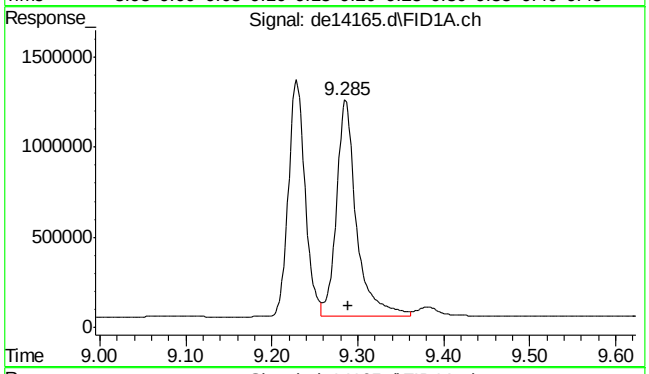
R.T.: 8.050 min
Delta R.T.: 0.000 min
Response: 1755999
Conc: 17.29 µg/ml

SGS ACCUTEST MC45897



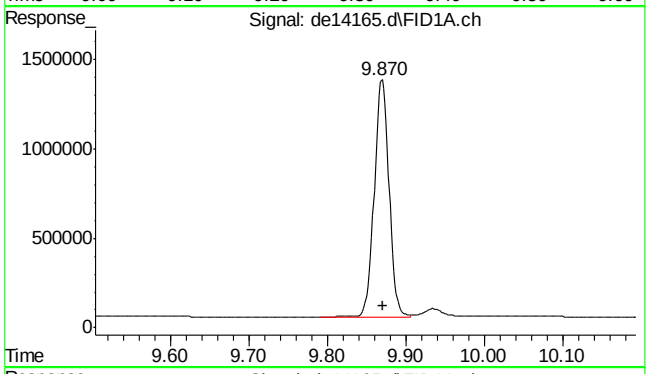
#9 phenanthrene

R.T.: 9.228 min
Delta R.T.: -0.002 min
Response: 1765917
Conc: 17.35 µg/ml



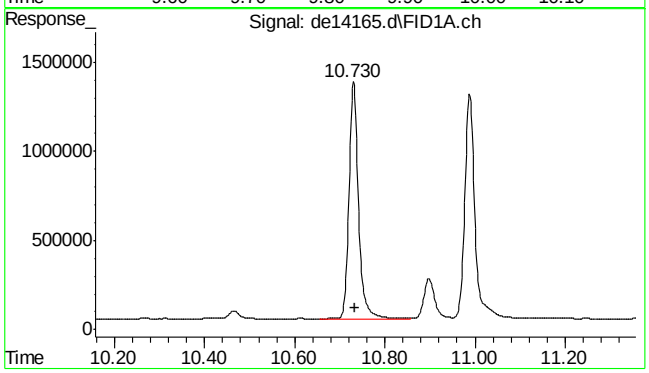
#10 anthracene

R.T.: 9.285 min
Delta R.T.: -0.003 min
Response: 1944554
Conc: 20.05 µg/ml



#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: -0.002 min
Response: 1733143
Conc: 16.92 µg/ml



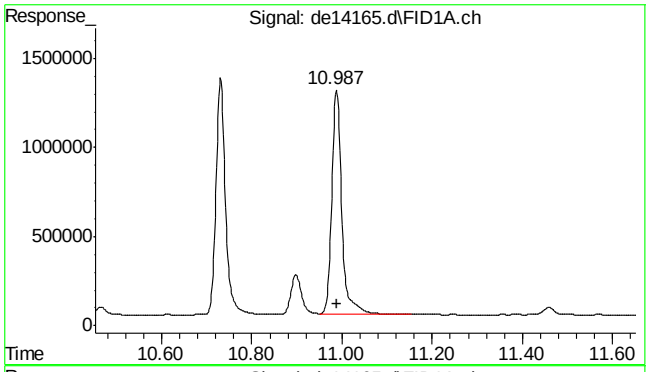
#12 fluoranthene

R.T.: 10.730 min
Delta R.T.: -0.003 min
Response: 1959134
Conc: 19.60 µg/ml

9.3.1

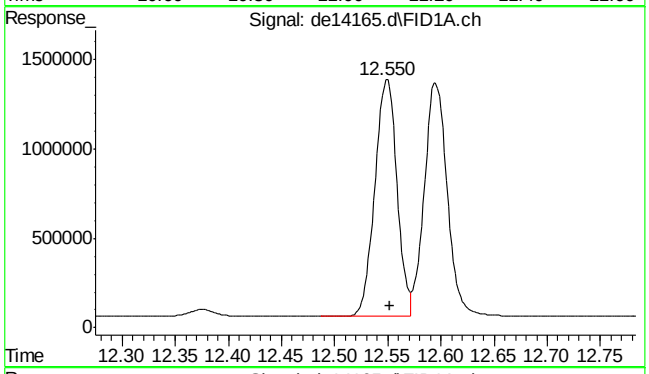
9

SGS ACCUTEST MC45897



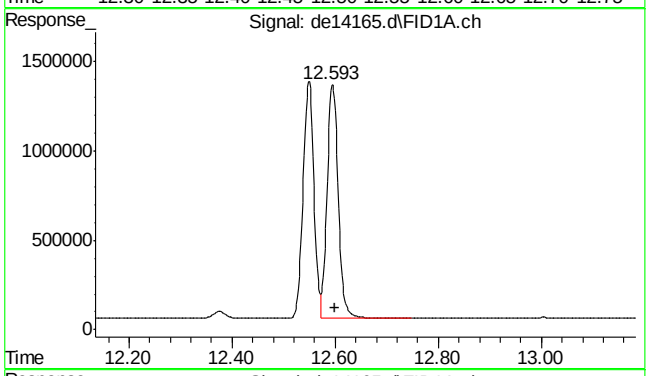
#13 pyrene

R.T.: 10.987 min
Delta R.T.: -0.003 min
Response: 1966170
Conc: 19.38 µg/ml



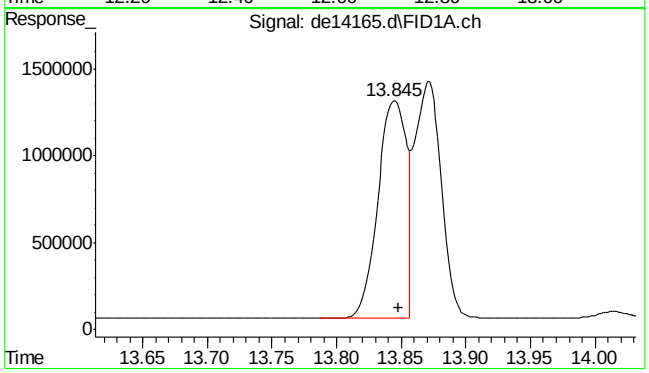
#14 benzo(a)anthracene

R.T.: 12.550 min
Delta R.T.: -0.002 min
Response: 1928905
Conc: 19.95 µg/ml



#15 chrysene

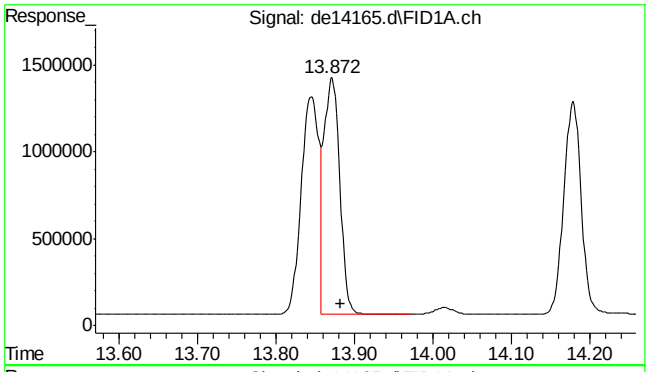
R.T.: 12.593 min
Delta R.T.: -0.007 min
Response: 1969835
Conc: 20.24 µg/ml



#16 benzo(B)fluoranthene

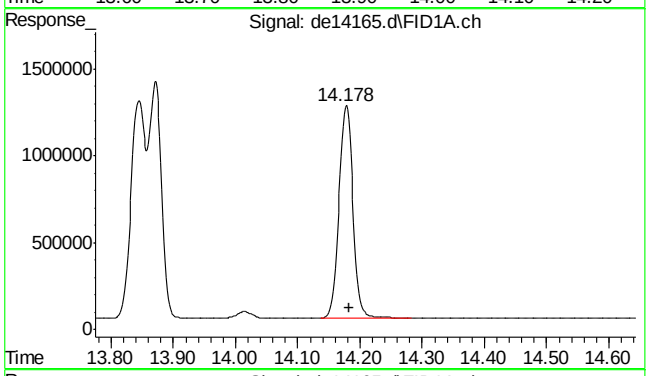
R.T.: 13.845 min
Delta R.T.: -0.003 min
Response: 1955020
Conc: 19.75 µg/ml

SGS ACCUTEST MC45897



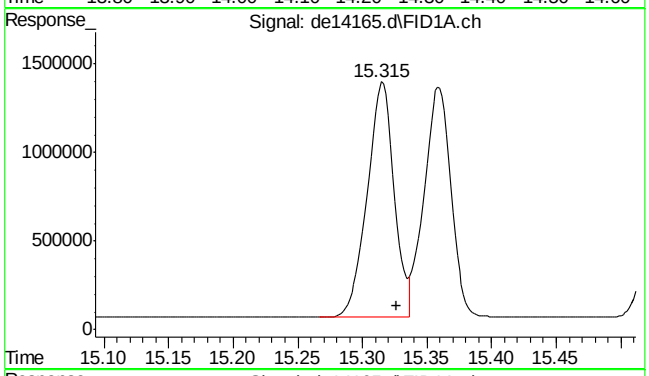
#17 benzo(k)fluoranthene

R.T.: 13.872 min
Delta R.T.: -0.010 min
Response: 1919011
Conc: 20.31 µg/ml



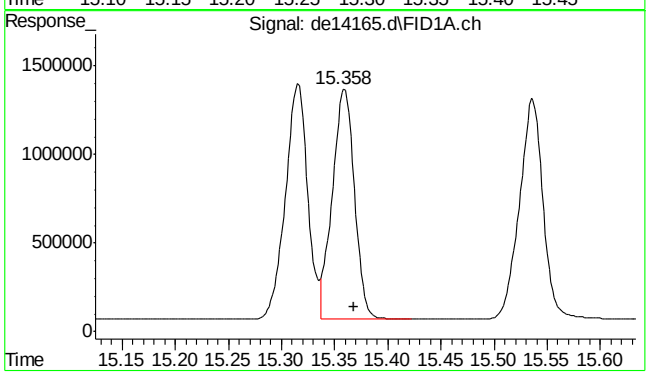
#18 benzo(a)pyrene

R.T.: 14.178 min
Delta R.T.: -0.005 min
Response: 1899218
Conc: 20.55 µg/ml



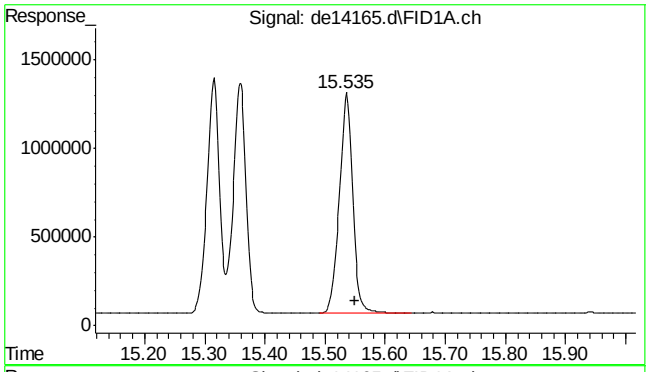
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.315 min
Delta R.T.: -0.012 min
Response: 1942754
Conc: 20.52 µg/ml



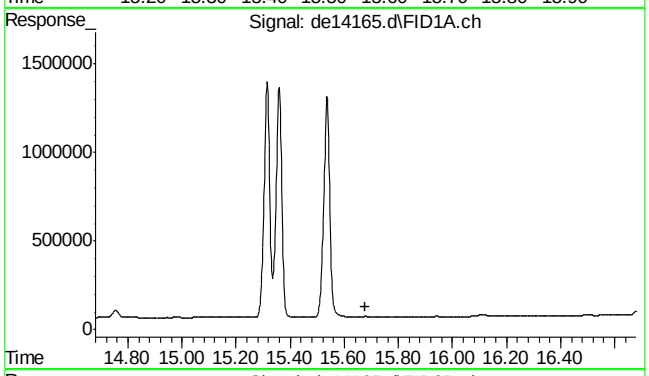
#20 dibenzo(ah)anthracene

R.T.: 15.358 min
Delta R.T.: -0.010 min
Response: 1862096
Conc: 20.37 µg/ml



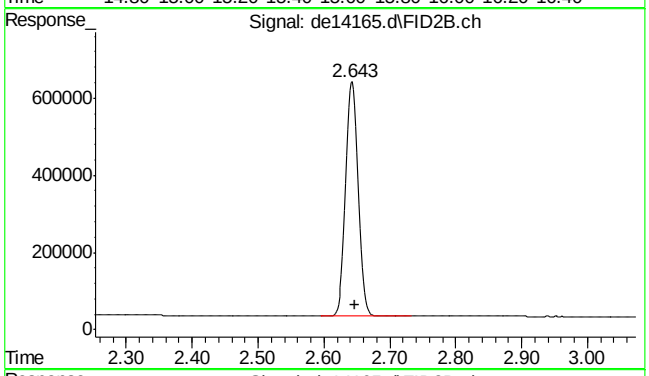
#21 benzo(ghi)perylene

R.T.: 15.535 min
Delta R.T.: -0.015 min
Response: 1919981
Conc: 20.84 µg/ml



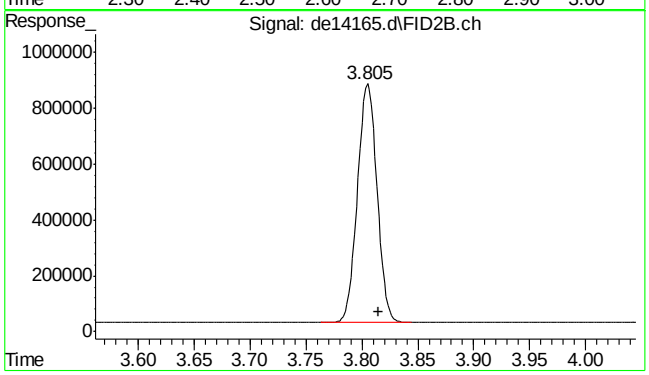
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 801347
Conc: 10.85 µg/ml m



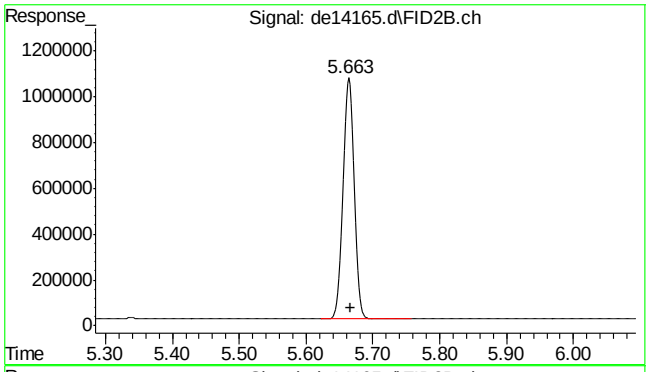
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1037899
Conc: 14.05 µg/ml m

9.3.1

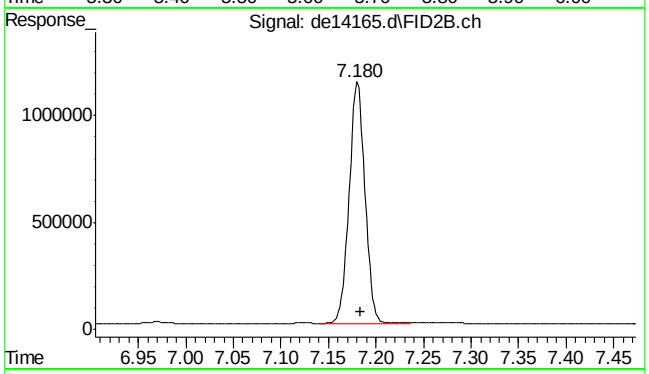
9

SGS ACCUTEST MC45897



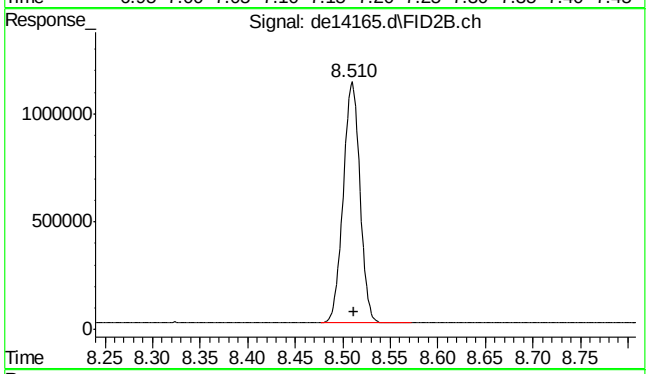
#28 c-12

R.T.: 5.663 min
Delta R.T.: -0.003 min
Response: 1214519
Conc: 16.44 µg/ml



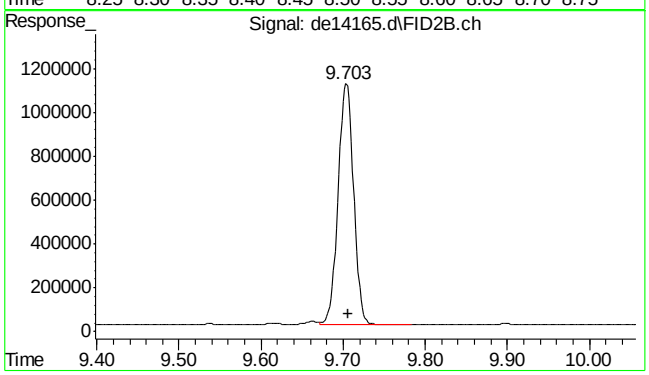
#30 c-14

R.T.: 7.180 min
Delta R.T.: -0.003 min
Response: 1304638
Conc: 17.66 µg/ml



#31 c-16

R.T.: 8.510 min
Delta R.T.: -0.002 min
Response: 1376788
Conc: 18.64 µg/ml



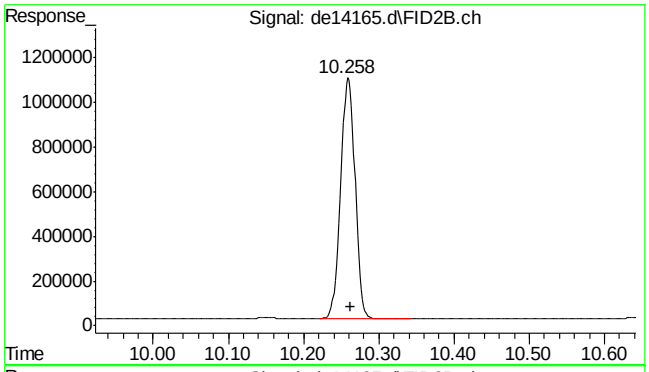
#32 c-18

R.T.: 9.703 min
Delta R.T.: -0.004 min
Response: 1443212
Conc: 19.54 µg/ml

9.3.1

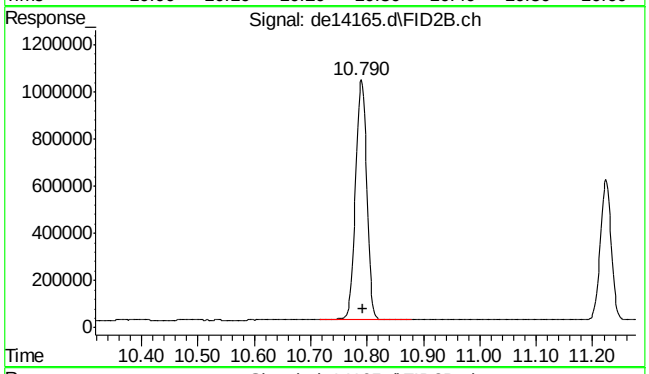
9

SGS ACCUTEST MC45897



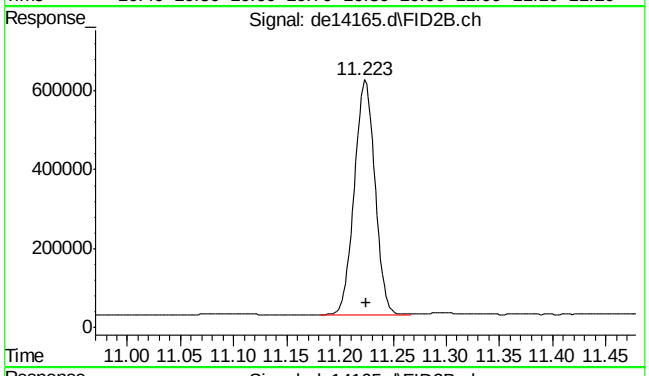
#33 c-19

R.T.: 10.258 min
Delta R.T.: -0.003 min
Response: 1434627
Conc: 21.47 µg/ml



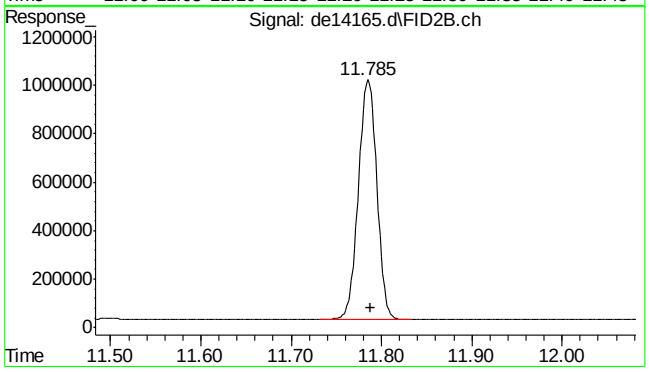
#34 c-20

R.T.: 10.790 min
Delta R.T.: -0.002 min
Response: 1433247
Conc: 21.45 µg/ml



#35 1-chlorooctadecane

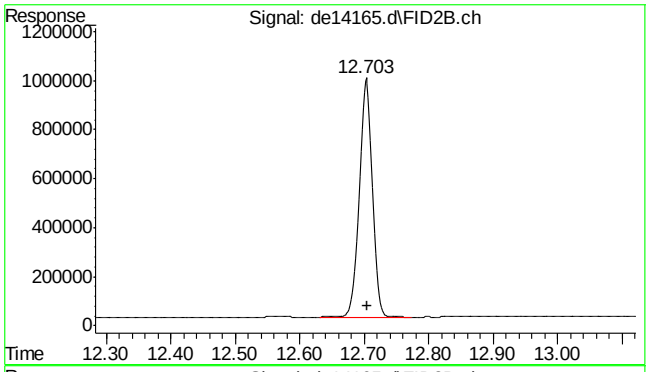
R.T.: 11.223 min
Delta R.T.: -0.002 min
Response: 800205
Conc: 14.14 µg/ml



#36 c-22

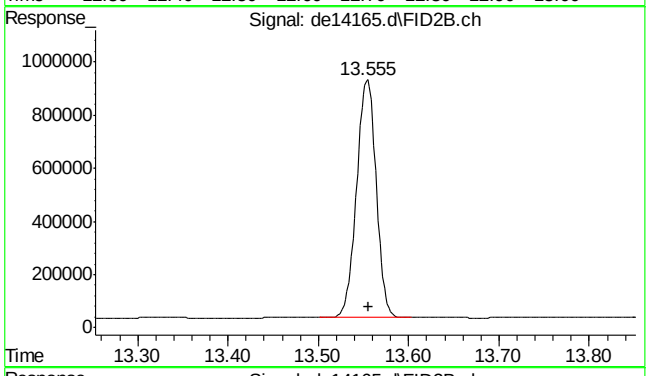
R.T.: 11.785 min
Delta R.T.: -0.003 min
Response: 1410076
Conc: 21.11 µg/ml

SGS ACCUTEST MC45897



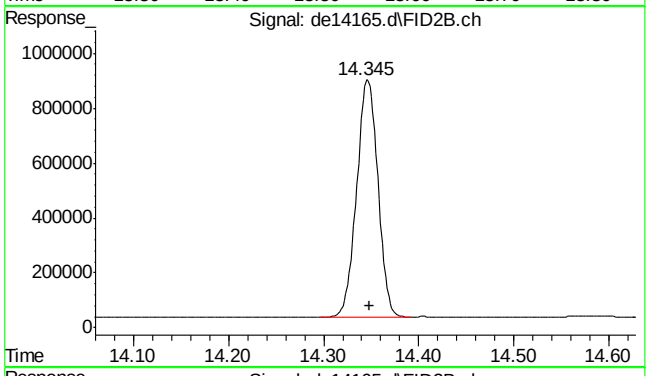
#37 c-24

R.T.: 12.703 min
Delta R.T.: -0.002 min
Response: 1391528
Conc: 20.83 µg/ml



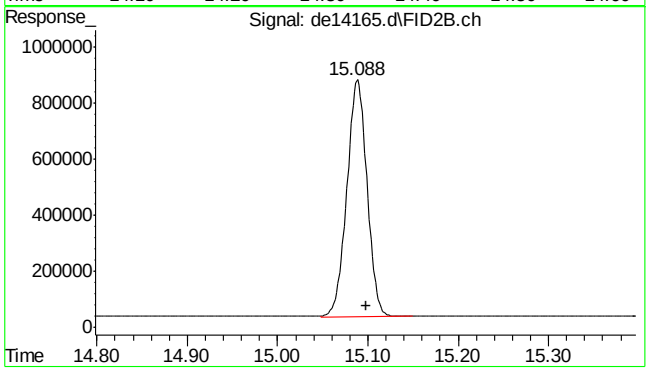
#38 c-26

R.T.: 13.555 min
Delta R.T.: 0.000 min
Response: 1360403
Conc: 20.36 µg/ml



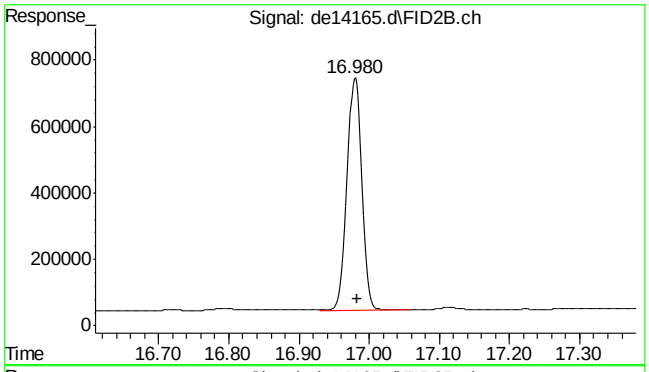
#39 c-28

R.T.: 14.345 min
Delta R.T.: -0.003 min
Response: 1340923
Conc: 20.07 µg/ml



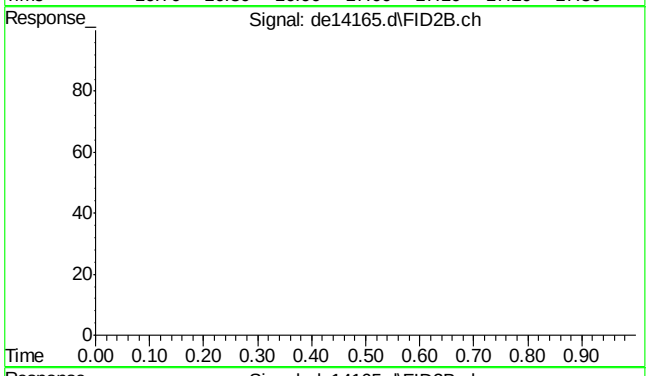
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1314390
Conc: 19.67 µg/ml



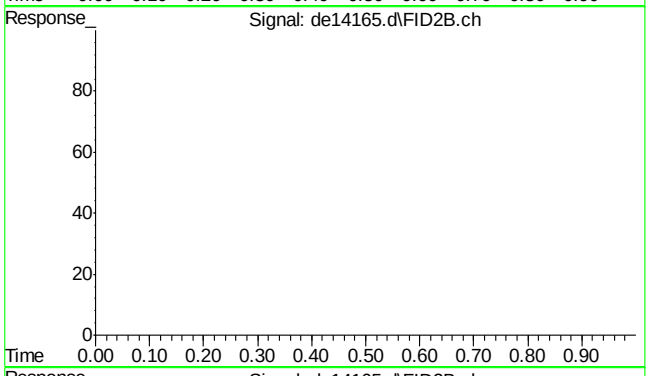
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1024031
Conc: 15.33 µg/ml m



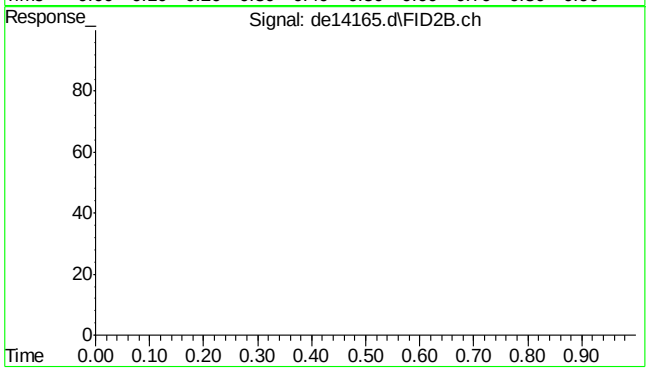
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



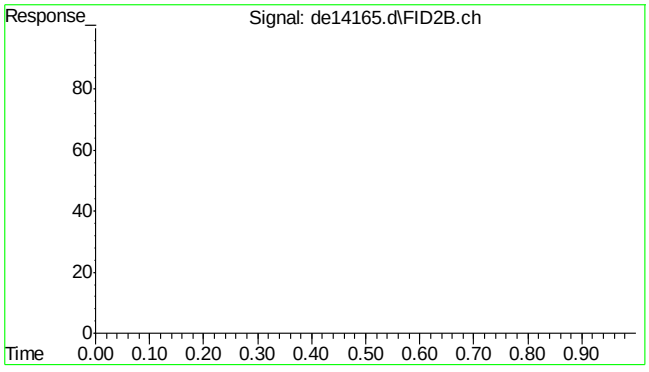
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.1

9

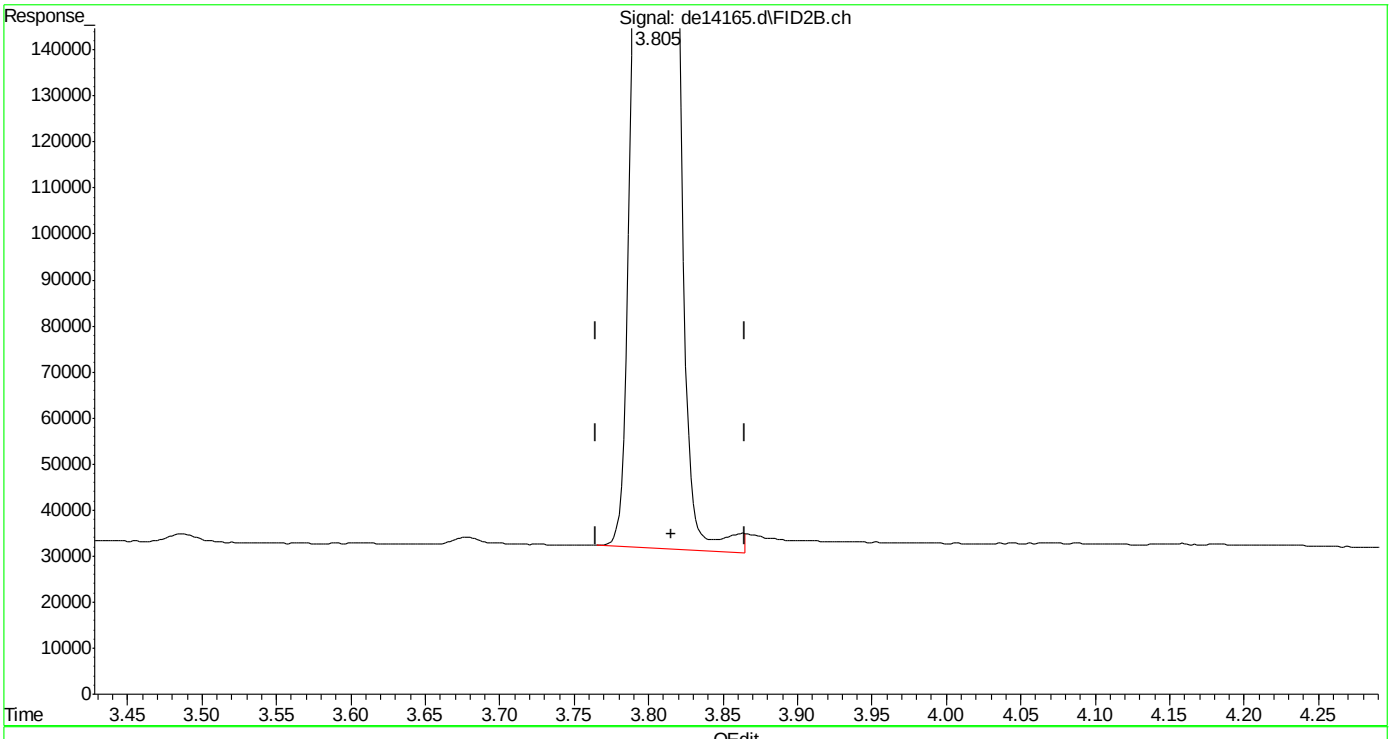
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14165.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 3:03 pm
Operator : thomasa
Sample : op47498-bs
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 07:24:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.815min 14.152 µg/ml
response 1045462

(+) = Expected Retention Time
EPH160519W.M Fri May 20 08:27:53 2016

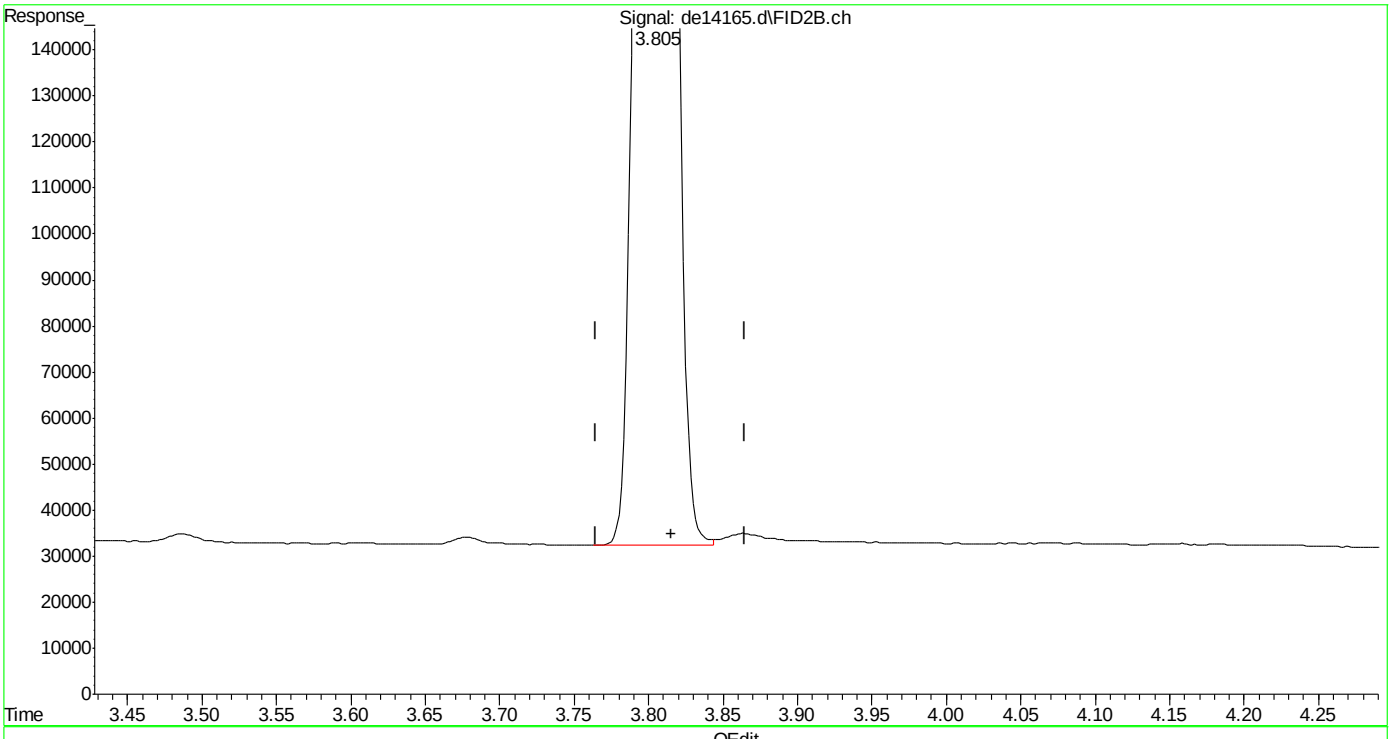
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14165.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 3:03 pm
Operator : thomasa
Sample : op47498-bs
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 07:24:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.815min 14.050 µg/ml m
response 1037899

(+) = Expected Retention Time
EPH160519W.M Fri May 20 08:28:00 2016

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 8:50 am
Operator : thomasa
Sample : op47498-bsd,rr
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:17:55 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1831818	19.861 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 99.30%#	
6) s 2-bromonaphthalene	7.332	1161227	18.504 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 92.52%#	
11) s o-terphenyl	9.868	1781082	17.389 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 86.94%#	
35) s 1-chlorooctadecane	11.223	759618	13.427 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 67.14%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	35503293	361.524 µg/mlm
2) naphthalene	5.155	1281763	12.427 µg/ml
3) 2-methylnaphthalene	6.053	1421429	13.870 µg/ml
5) acenaphthylene	7.165	1597826	15.883 µg/ml
7) acenaphthene	7.407	1888935	18.272 µg/ml
8) fluorene	8.050	1815599	17.876 µg/ml
9) phenanthrene	9.228	1870036	18.376 µg/ml
10) anthracene	9.285	2057391	21.208 µg/ml
12) fluoranthene	10.730	2071097	20.723 µg/ml
13) pyrene	10.985	2055632	20.260 µg/ml
14) benzo(a)anthracene	12.547	2092389	21.644 µg/ml
15) chrysene	12.595	2100129	21.575 µg/ml
16) benzo(B)fluoranthene	13.843	2129881	21.513 µg/ml
17) benzo(k)fluoranthene	13.870	2030017	21.481 µg/ml
18) benzo(a)pyrene	14.177	2024001	21.896 µg/ml
19) indeno(1,2,3-cd)pyrene	15.315	2089303	22.072 µg/ml
20) dibenzo(ah)anthracene	15.358	1999937	21.881 µg/ml
21) benzo(ghi)perylene	15.535	2062787	22.392 µg/ml
25) h c-9	2.647	583874	7.904 µg/mlm
26) h c-10	3.815	795595	10.770 µg/ml
28) c-12	5.663	1025460	13.882 µg/ml
30) c-14	7.180	1192026	16.136 µg/ml
31) c-16	8.510	1317672	17.837 µg/ml
32) c-18	9.705	1419569	19.217 µg/ml
33) c-19	10.258	1404752	21.027 µg/ml
34) c-20	10.790	1420816	21.268 µg/ml
36) c-22	11.787	1419653	21.250 µg/ml
37) c-24	12.703	1411654	21.131 µg/ml
38) c-26	13.553	1384583	20.725 µg/ml
39) c-28	14.347	1371723	20.533 µg/ml

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 8:50 am
Operator : thomasa
Sample : op47498-bsd,rr
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:17:55 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
40) h c-30	15.098	1363023	20.403 µg/ml
41) h c-36	16.983	1188360	17.788 µg/mlm

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

9.3.2

9

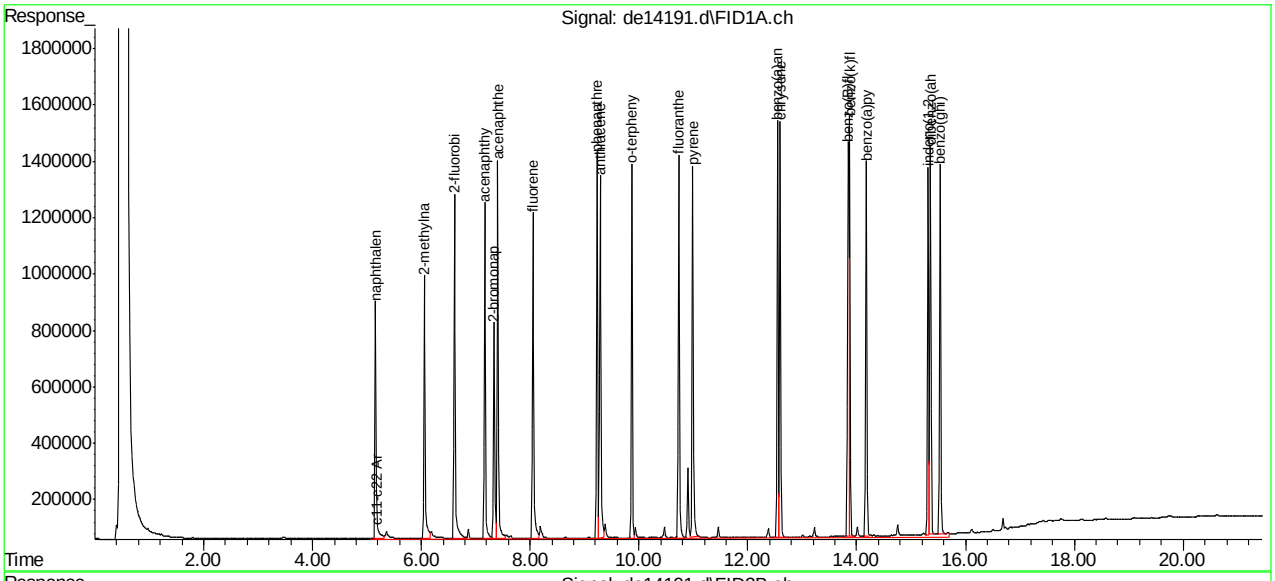
SGS ACCUTEST MC45897

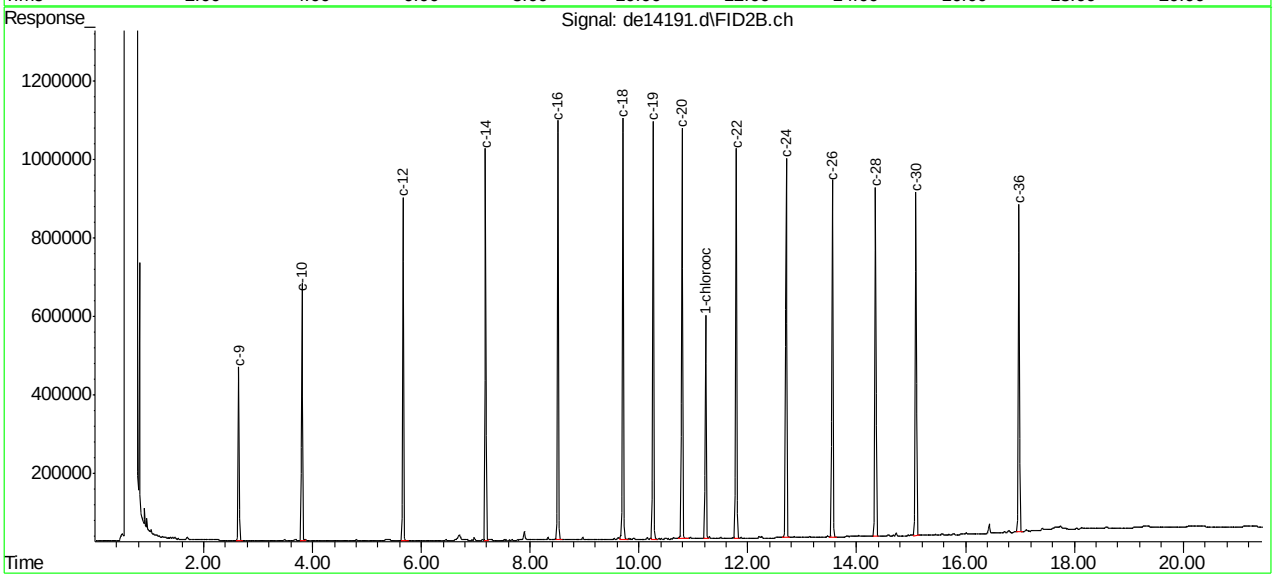
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 8:50 am
Operator : thomasa
Sample : op47498-bsd,rr
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 6 Sample Multiplier: 1

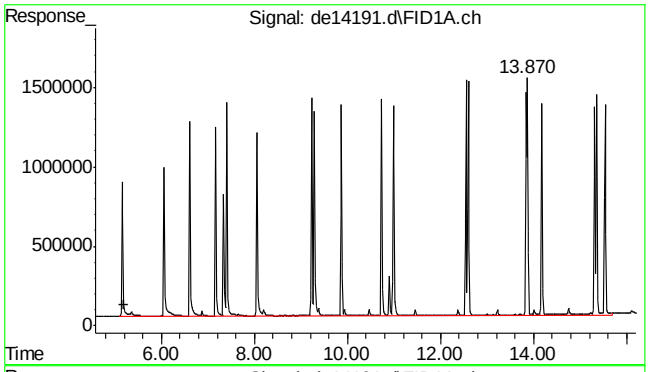
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:17:55 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



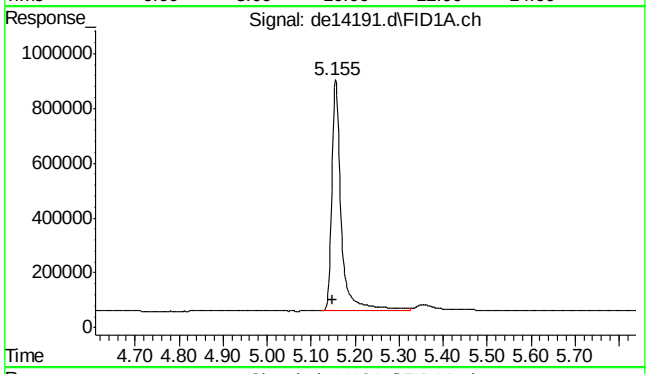


SGS ACCUTEST MC45897



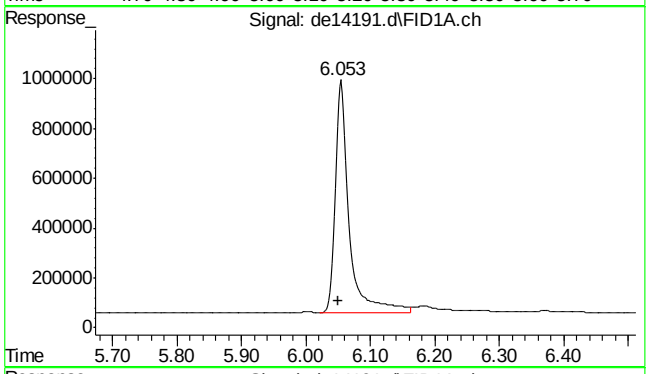
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 35503293
Conc: 361.52 µg/ml m



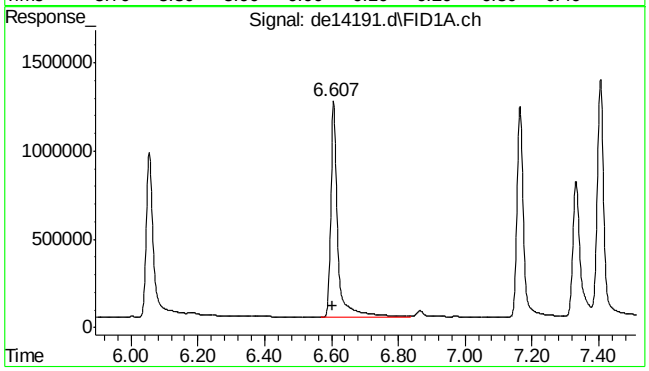
#2 naphthalene

R.T.: 5.155 min
Delta R.T.: 0.005 min
Response: 1281763
Conc: 12.43 µg/ml



#3 2-methylnaphthalene

R.T.: 6.053 min
Delta R.T.: 0.003 min
Response: 1421429
Conc: 13.87 µg/ml



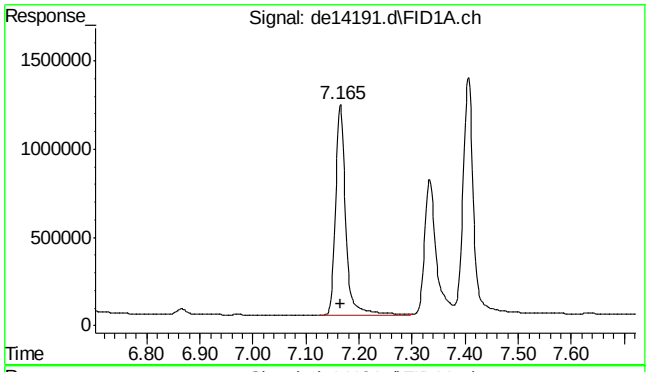
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.003 min
Response: 1831818
Conc: 19.86 µg/ml

9.3.2

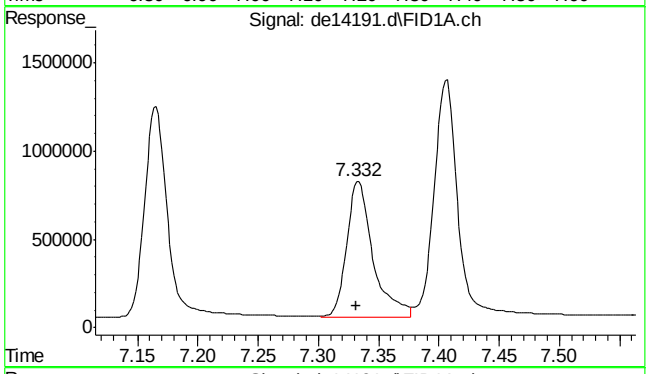
9

SGS ACCUTEST MC45897



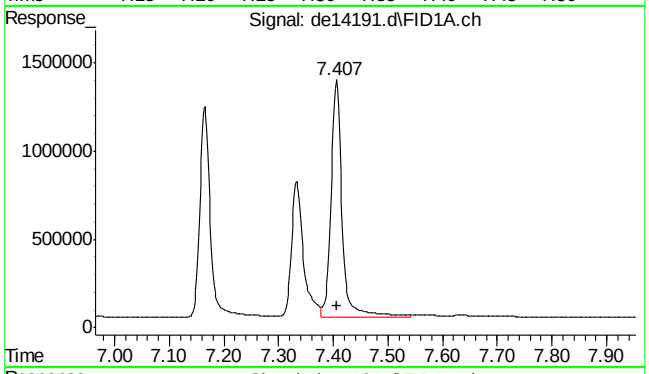
#5 acenaphthylene

R.T.: 7.165 min
Delta R.T.: 0.000 min
Response: 1597826
Conc: 15.88 µg/ml



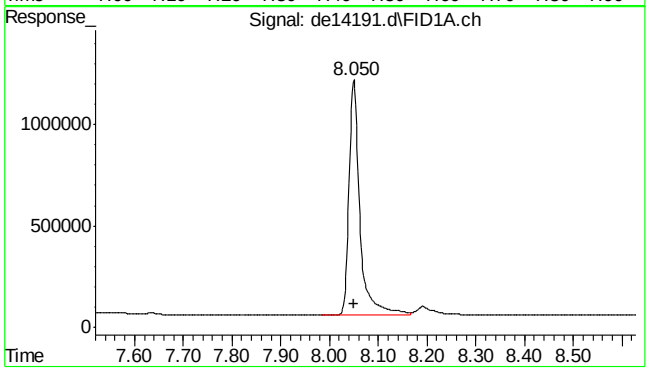
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 1161227
Conc: 18.50 µg/ml



#7 acenaphthene

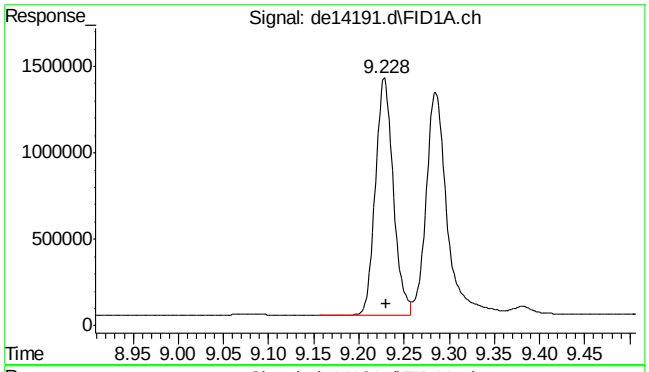
R.T.: 7.407 min
Delta R.T.: 0.000 min
Response: 1888935
Conc: 18.27 µg/ml



#8 fluorene

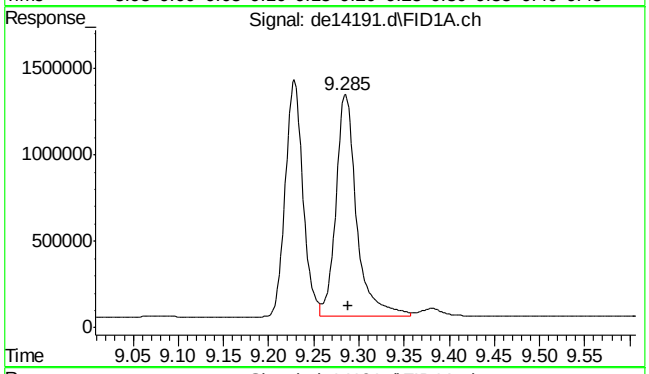
R.T.: 8.050 min
Delta R.T.: 0.000 min
Response: 1815599
Conc: 17.88 µg/ml

SGS ACCUTEST MC45897



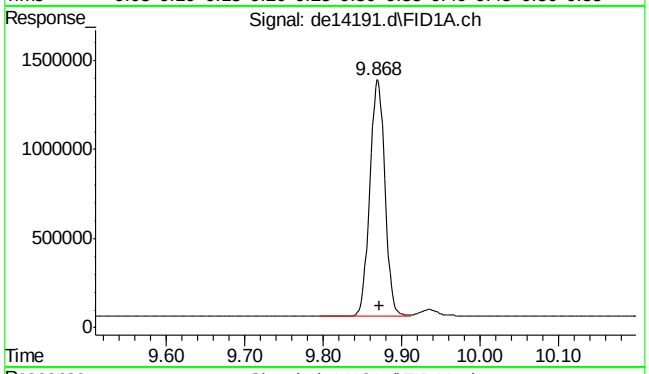
#9 phenanthrene

R.T.: 9.228 min
Delta R.T.: -0.002 min
Response: 1870036
Conc: 18.38 µg/ml



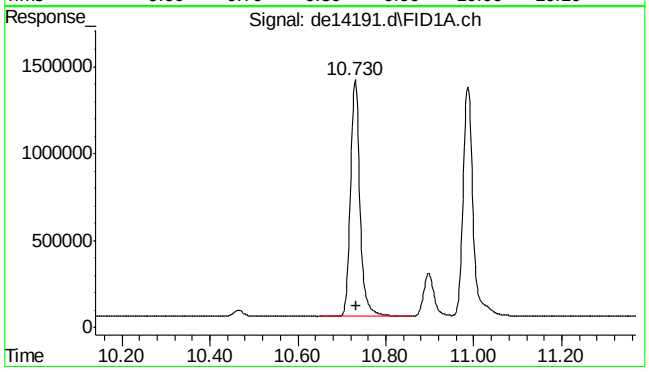
#10 anthracene

R.T.: 9.285 min
Delta R.T.: -0.003 min
Response: 2057391
Conc: 21.21 µg/ml



#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.003 min
Response: 1781082
Conc: 17.39 µg/ml



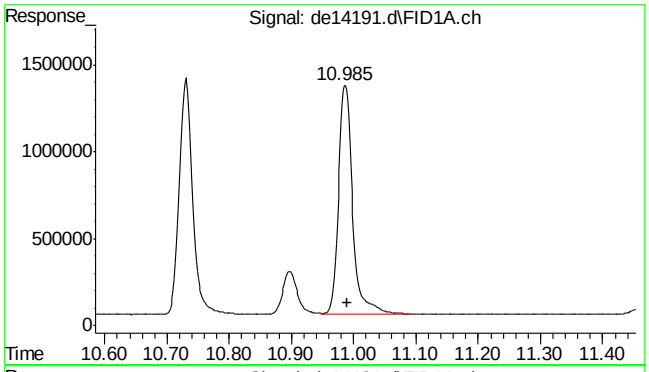
#12 fluoranthene

R.T.: 10.730 min
Delta R.T.: -0.003 min
Response: 2071097
Conc: 20.72 µg/ml

9.3.2

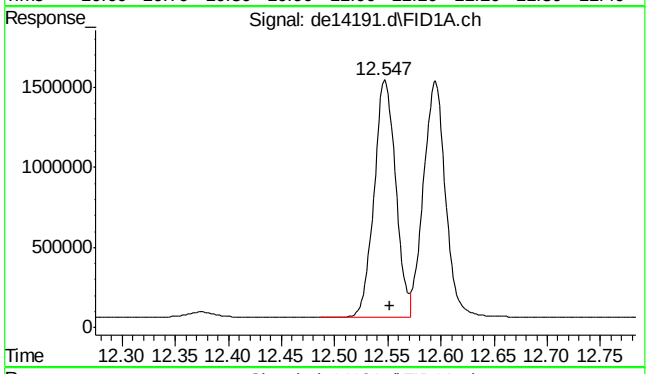
9

SGS ACCUTEST MC45897



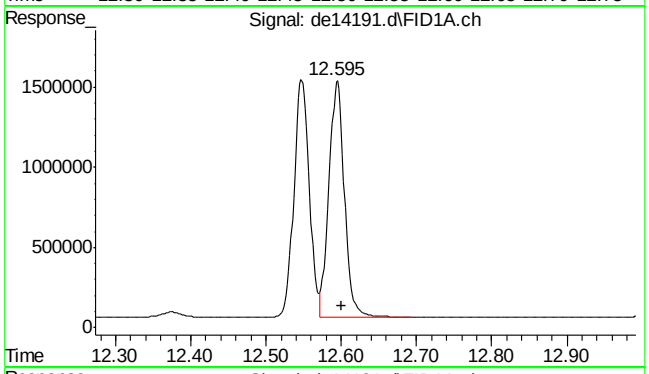
#13 pyrene

R.T.: 10.985 min
Delta R.T.: -0.005 min
Response: 2055632
Conc: 20.26 µg/ml



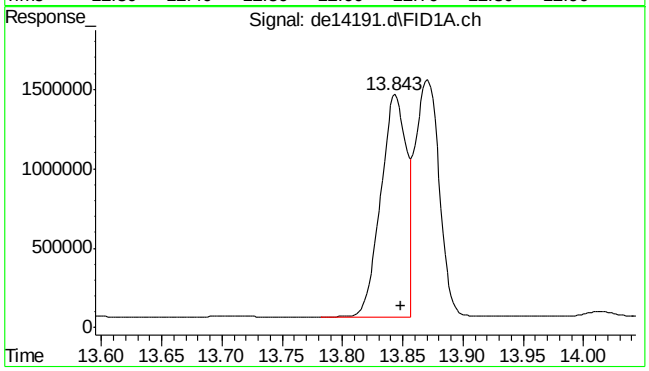
#14 benzo(a)anthracene

R.T.: 12.547 min
Delta R.T.: -0.005 min
Response: 2092389
Conc: 21.64 µg/ml



#15 chrysene

R.T.: 12.595 min
Delta R.T.: -0.005 min
Response: 2100129
Conc: 21.57 µg/ml



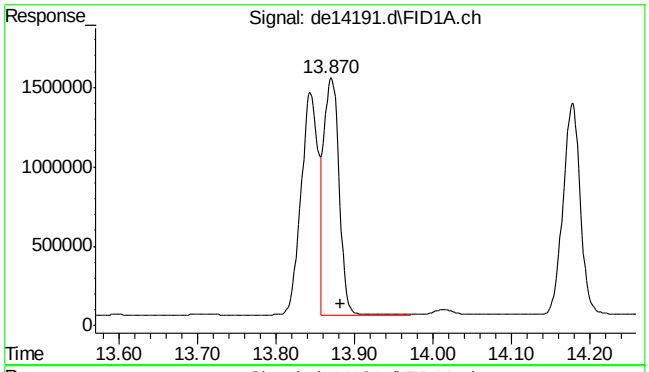
#16 benzo(B)fluoranthene

R.T.: 13.843 min
Delta R.T.: -0.005 min
Response: 2129881
Conc: 21.51 µg/ml

9.3.2

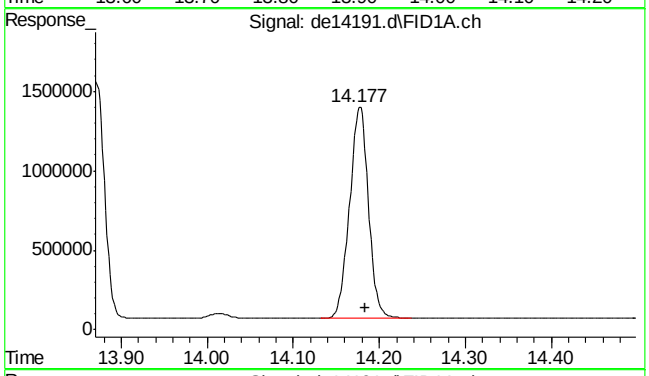
9

SGS ACCUTEST MC45897



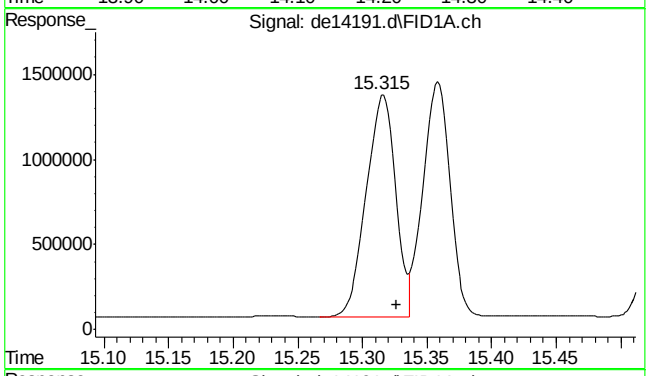
#17 benzo(k)fluoranthene

R.T.: 13.870 min
Delta R.T.: -0.012 min
Response: 2030017
Conc: 21.48 µg/ml



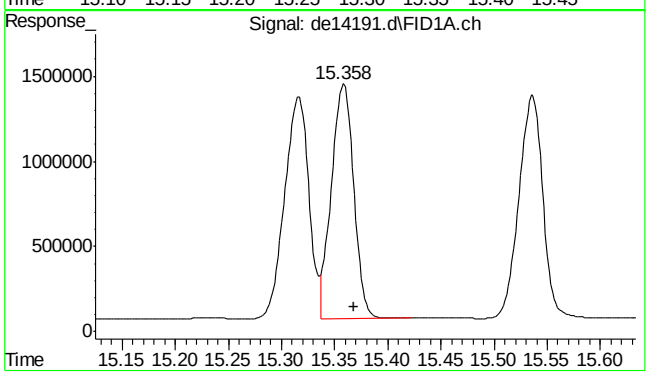
#18 benzo(a)pyrene

R.T.: 14.177 min
Delta R.T.: -0.007 min
Response: 2024001
Conc: 21.90 µg/ml



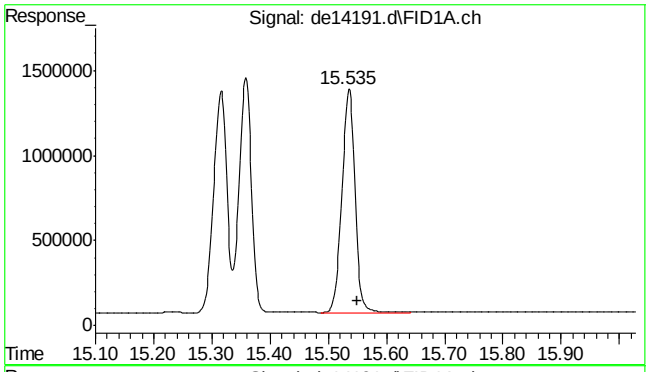
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.315 min
Delta R.T.: -0.012 min
Response: 2089303
Conc: 22.07 µg/ml



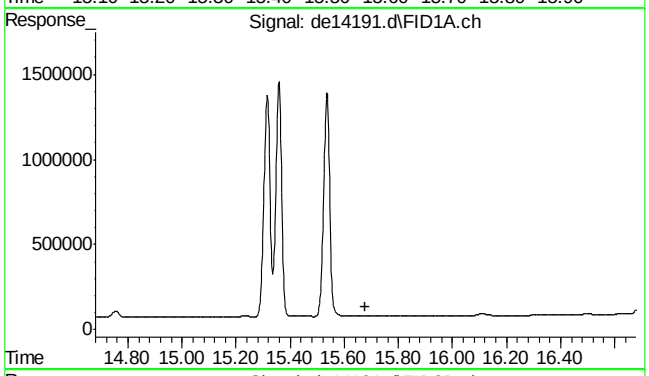
#20 dibenzo(ah)anthracene

R.T.: 15.358 min
Delta R.T.: -0.010 min
Response: 1999937
Conc: 21.88 µg/ml



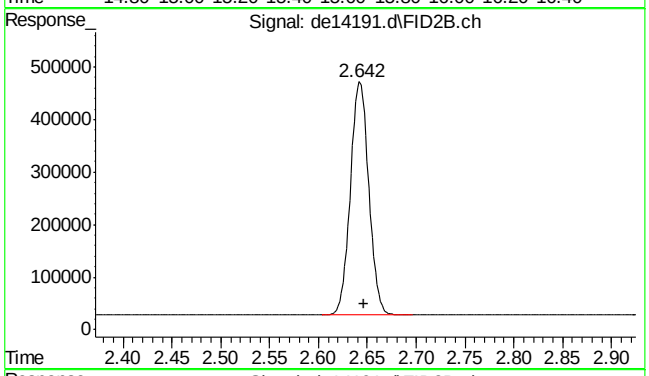
#21 benzo(ghi)perylene

R.T.: 15.535 min
Delta R.T.: -0.015 min
Response: 2062787
Conc: 22.39 µg/ml



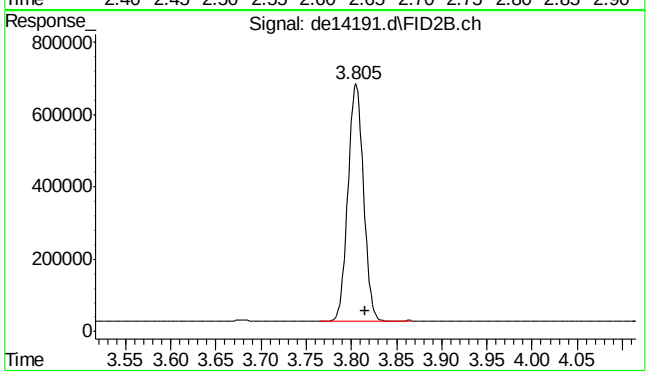
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



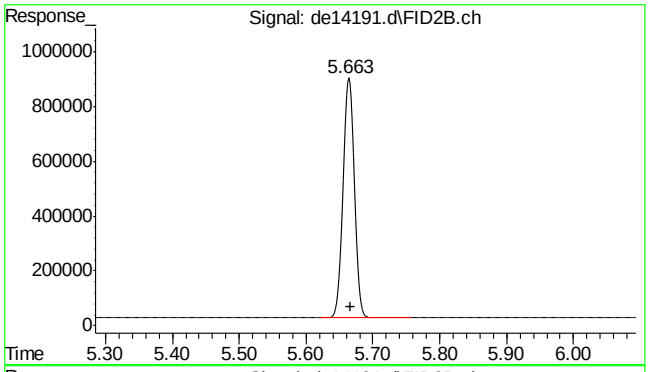
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 583874
Conc: 7.90 µg/ml m



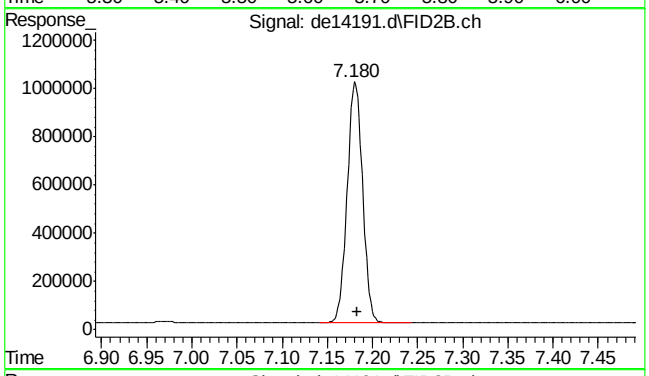
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 795595
Conc: 10.77 µg/ml



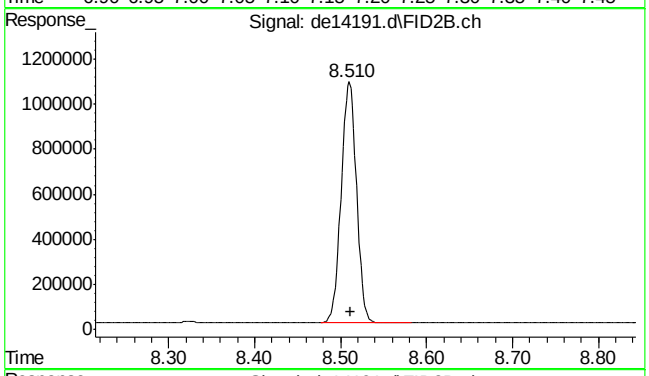
#28 c-12

R.T.: 5.663 min
Delta R.T.: -0.003 min
Response: 1025460
Conc: 13.88 µg/ml



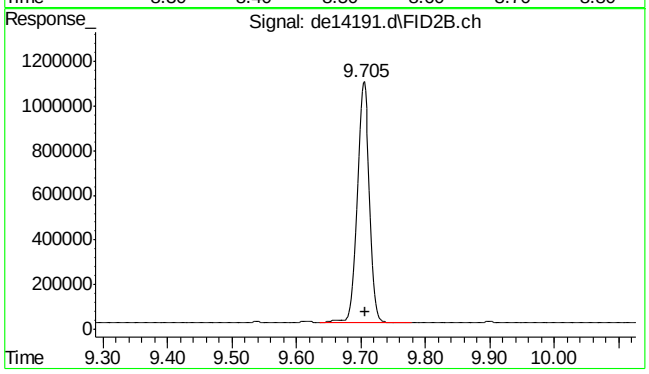
#30 c-14

R.T.: 7.180 min
Delta R.T.: -0.003 min
Response: 1192026
Conc: 16.14 µg/ml



#31 c-16

R.T.: 8.510 min
Delta R.T.: -0.002 min
Response: 1317672
Conc: 17.84 µg/ml



#32 c-18

R.T.: 9.705 min
Delta R.T.: -0.002 min
Response: 1419569
Conc: 19.22 µg/ml

9.3.2

9

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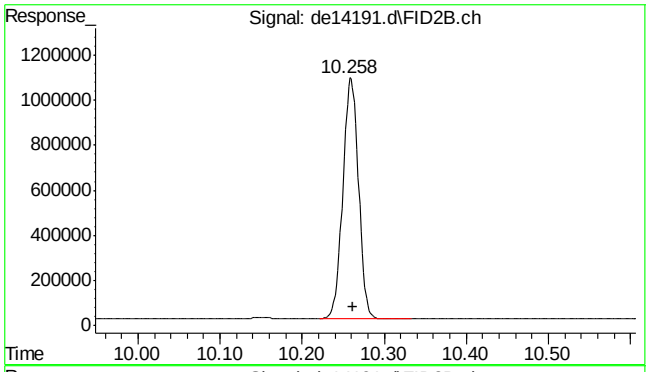
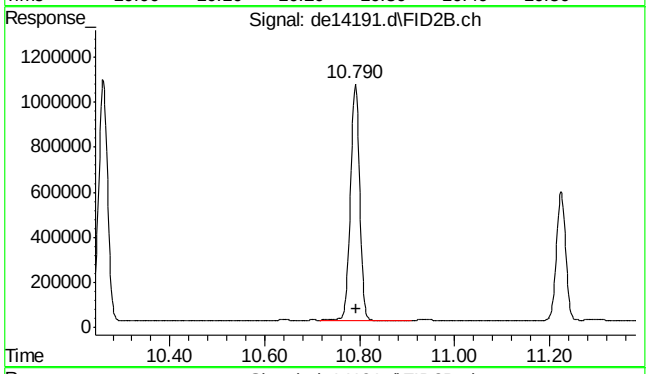


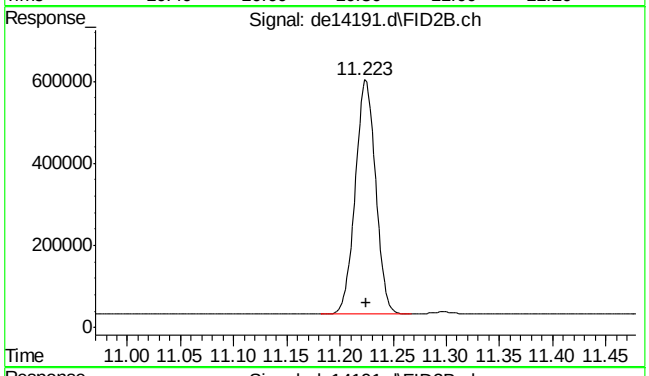
#33 c-19

R.T.: 10.258 min
Delta R.T.: -0.003 min
Response: 1404752
Conc: 21.03 µg/ml



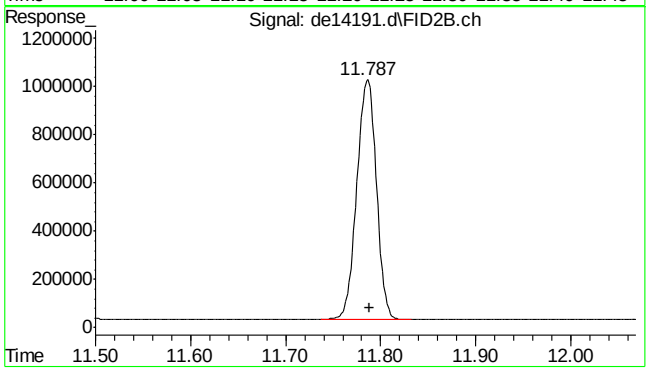
#34 c-20

R.T.: 10.790 min
Delta R.T.: -0.002 min
Response: 1420816
Conc: 21.27 µg/ml



#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.002 min
Response: 759618
Conc: 13.43 µg/ml



#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.002 min
Response: 1419653
Conc: 21.25 µg/ml

9.3.2

9

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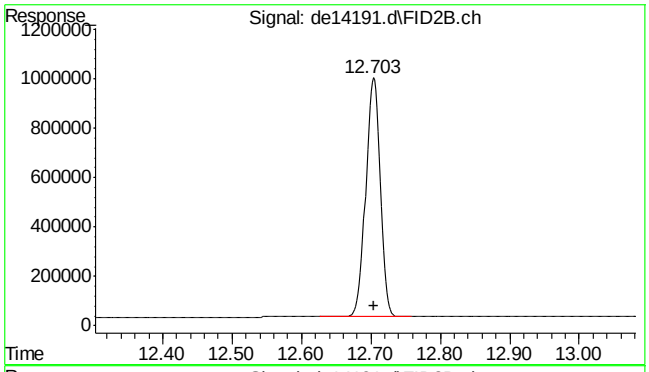
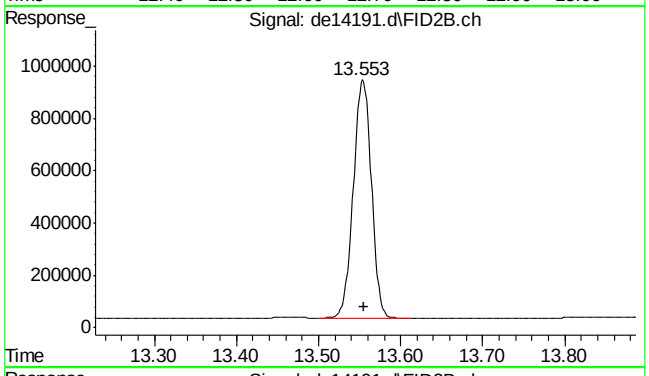


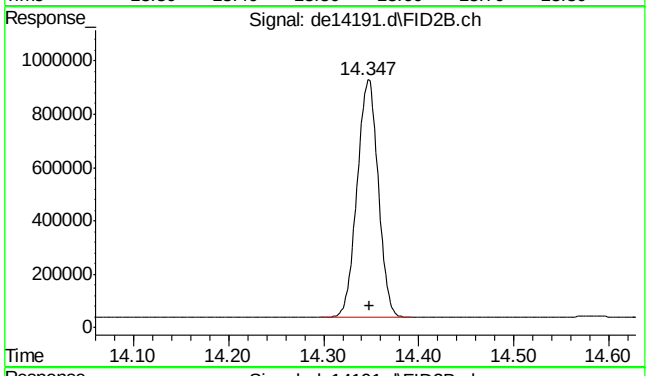
#37 c-24

R.T.: 12.703 min
Delta R.T.: -0.002 min
Response: 1411654
Conc: 21.13 µg/ml



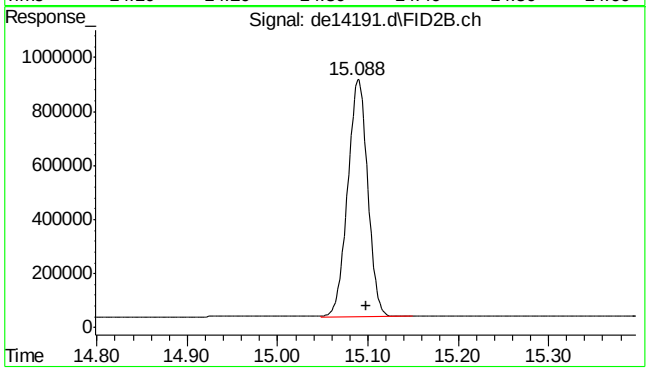
#38 c-26

R.T.: 13.553 min
Delta R.T.: -0.002 min
Response: 1384583
Conc: 20.73 µg/ml



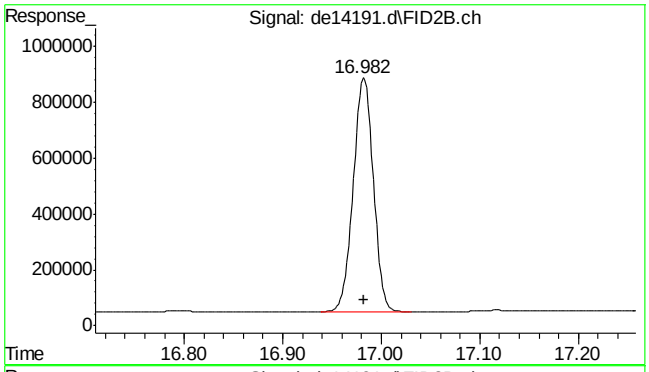
#39 c-28

R.T.: 14.347 min
Delta R.T.: -0.002 min
Response: 1371723
Conc: 20.53 µg/ml



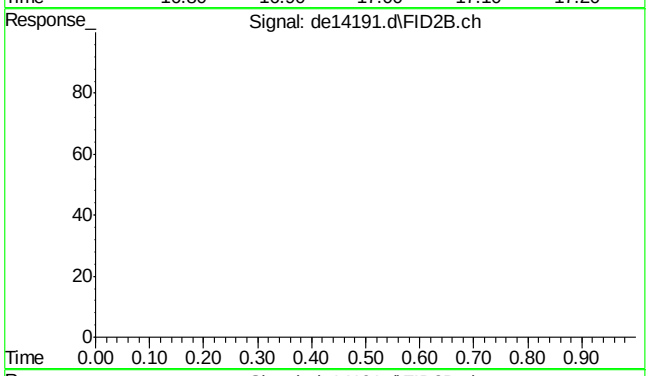
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1363023
Conc: 20.40 µg/ml



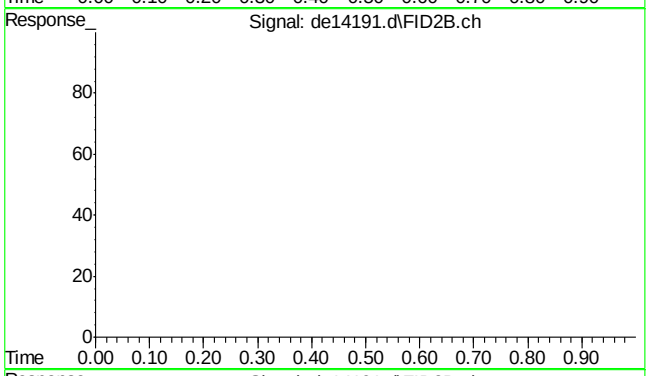
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1188360
Conc: 17.79 µg/ml m



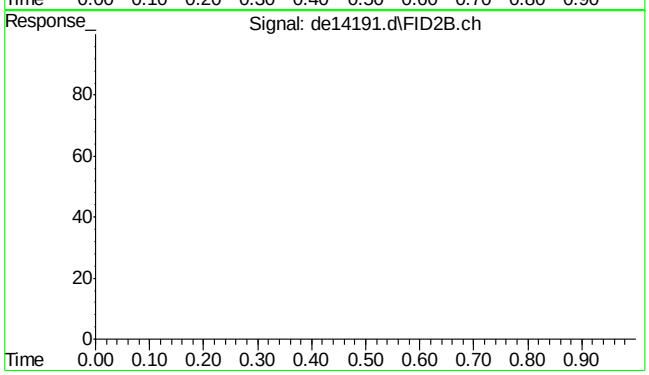
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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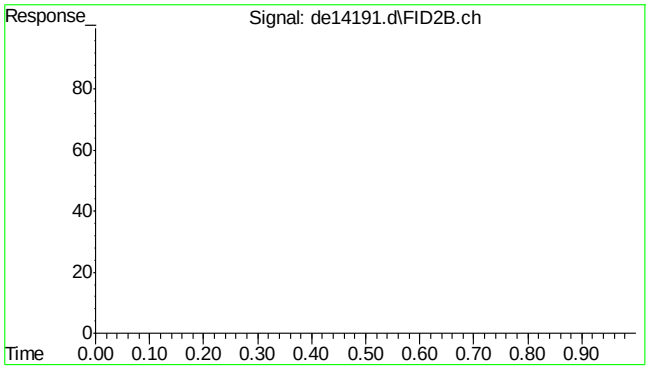


#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.2

9

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160523EPH\
Data File : de14213.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 23 May 2016 9:01 am
Operator : thomasa
Sample : op47576-bs
Misc : op47576,gde795,1000,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:03:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.603	1457246	15.800 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	79.00%#
6) s 2-bromonaphthalene	7.330	952374	15.176 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	75.88%#
11) s o-terphenyl	9.867	1843273	17.996 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	89.98%#
35) s 1-chlorooctadecane	11.222	991240	17.521 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	87.61%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	36257536	369.204 µg/ml
2) naphthalene	5.153	1249899	12.118 µg/ml
3) 2-methylnaphthalene	6.052	1340271	13.078 µg/ml
5) acenaphthylene	7.162	1475445	14.666 µg/ml
7) acenaphthene	7.402	1625332	15.722 µg/ml
8) fluorene	8.045	1638622	16.133 µg/ml
9) phenanthrene	9.225	1772713	17.420 µg/ml
10) anthracene	9.280	1918756	19.779 µg/ml
12) fluoranthene	10.727	2082732	20.840 µg/ml
13) pyrene	10.982	2121409	20.908 µg/ml
14) benzo(a)anthracene	12.543	2237789	23.148 µg/ml
15) chrysene	12.590	2264601	23.265 µg/ml
16) benzo(B)fluoranthene	13.840	2270155	22.930 µg/ml
17) benzo(k)fluoranthene	13.867	2280508	24.132 µg/ml
18) benzo(a)pyrene	14.172	2209054	23.898 µg/ml
19) indeno(1,2,3-cd)pyrene	15.312	2205873	23.304 µg/ml
20) dibenzo(ah)anthracene	15.355	2104656	23.027 µg/ml
21) benzo(ghi)perylene	15.532	2186893	23.739 µg/ml
25) h c-9	2.647	880136	11.914 µg/mlm
26) h c-10	3.815	1109730	15.022 µg/ml
28) c-12	5.663	1254931	16.988 µg/ml
30) c-14	7.180	1315424	17.807 µg/ml
31) c-16	8.508	1390551	18.824 µg/ml
32) c-18	9.703	1489174	20.159 µg/ml
33) c-19	10.258	1474125	22.066 µg/ml
34) c-20	10.788	1467189	21.962 µg/ml
36) c-22	11.783	1454379	21.770 µg/ml
37) c-24	12.702	1438760	21.536 µg/ml
38) c-26	13.552	1406503	21.053 µg/ml
39) c-28	14.345	1387957	20.776 µg/ml
40) h c-30	15.098	1390897	20.820 µg/ml
41) h c-36	16.983	1151643	17.239 µg/mlm

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

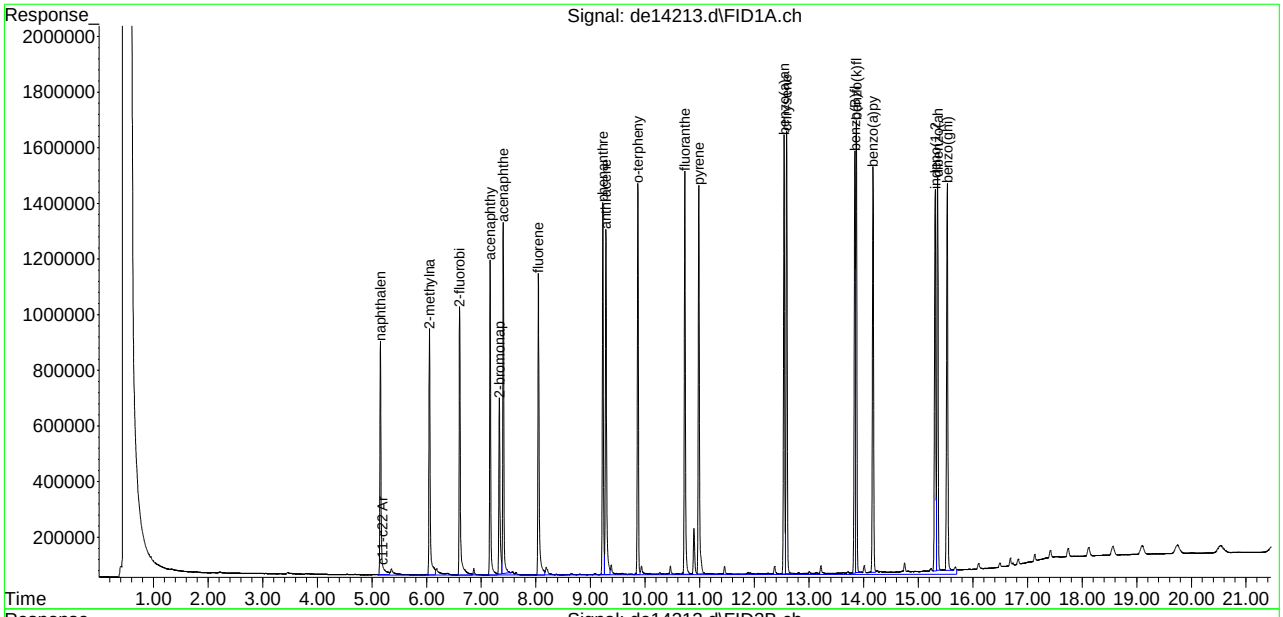
SGS ACCUTEST MC45897

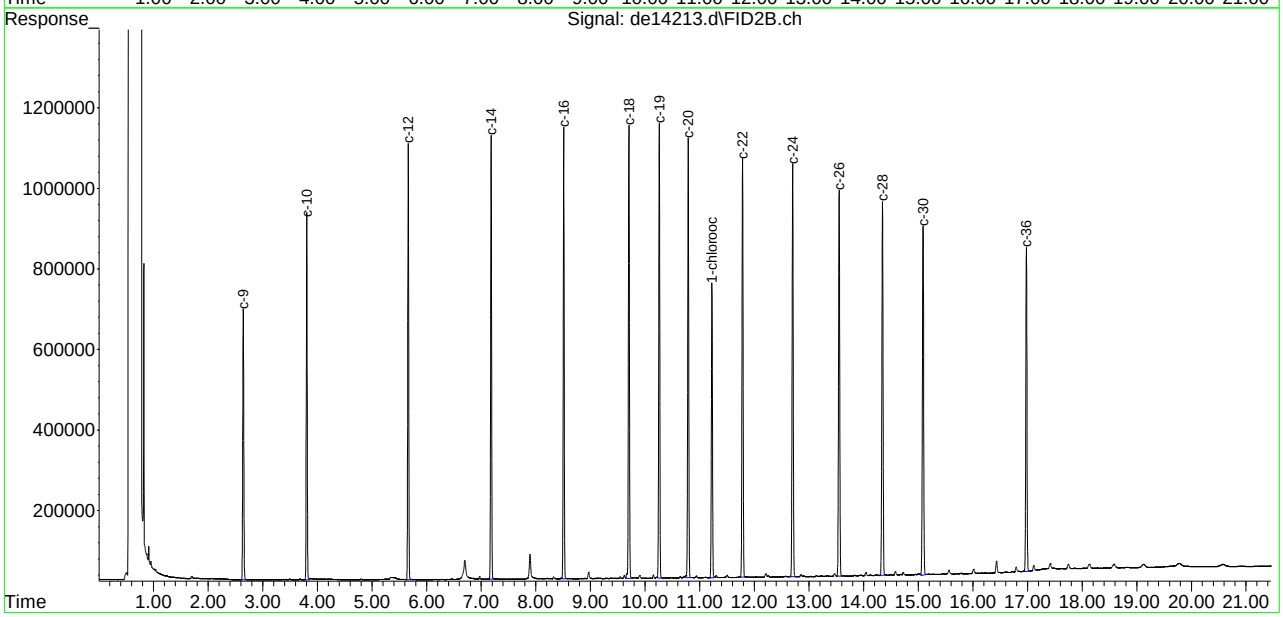
Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160523EPH\
Data File : de14213.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 23 May 2016 9:01 am
Operator : thomasa
Sample : op47576-bs
Misc : op47576,gde795,1000,,,2,,s
ALS Vial : 2 Sample Multiplier: 1

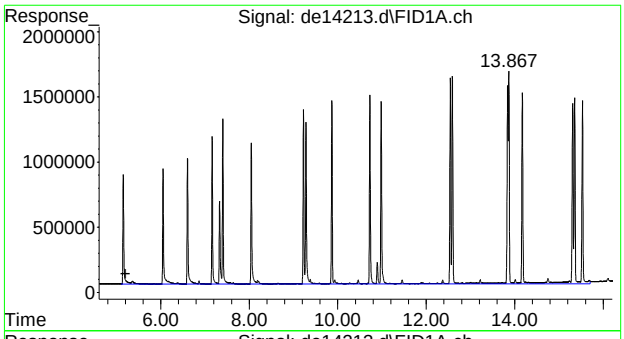
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:03:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



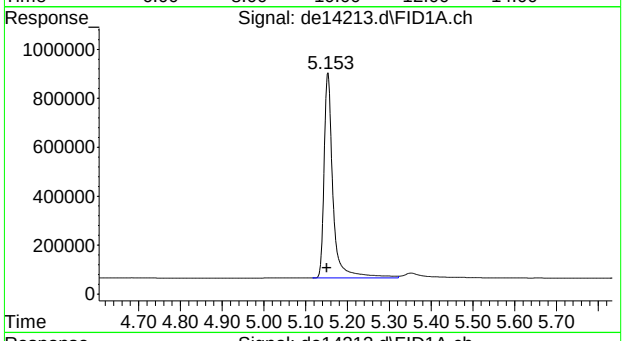


SGS ACCUTEST MC45897



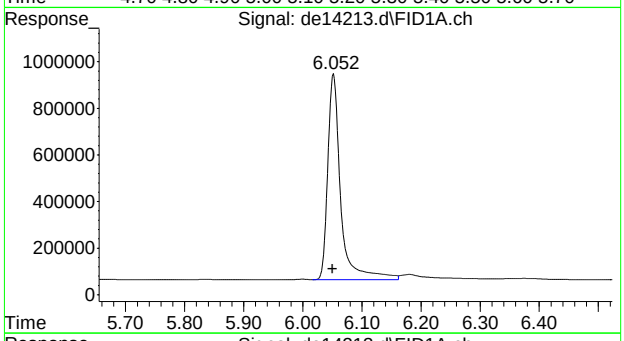
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 36257536
Conc: 369.20 µg/ml



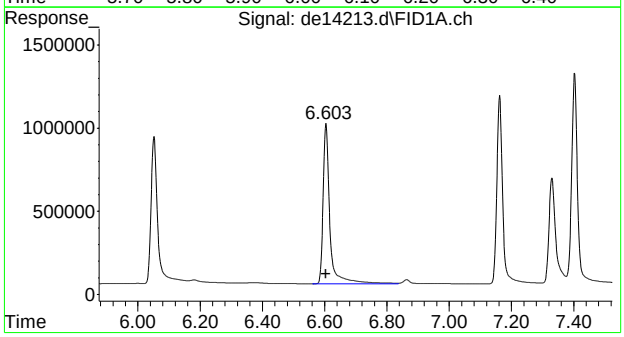
#2 naphthalene

R.T.: 5.153 min
Delta R.T.: 0.003 min
Response: 1249899
Conc: 12.12 µg/ml



#3 2-methylnaphthalene

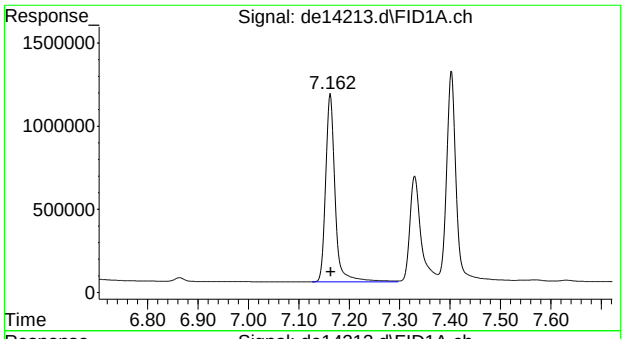
R.T.: 6.052 min
Delta R.T.: 0.002 min
Response: 1340271
Conc: 13.08 µg/ml



#4 2-fluorobiphenyl

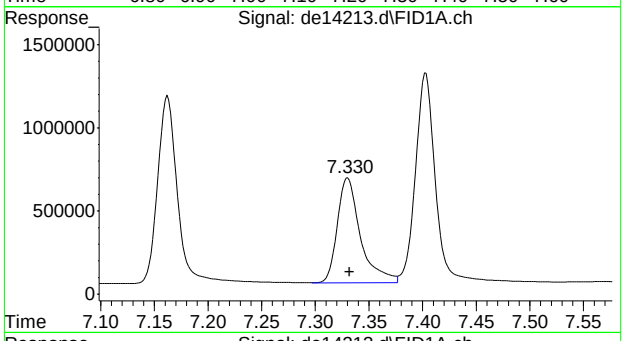
R.T.: 6.603 min
Delta R.T.: 0.000 min
Response: 1457246
Conc: 15.80 µg/ml

SGS ACCUTEST MC45897



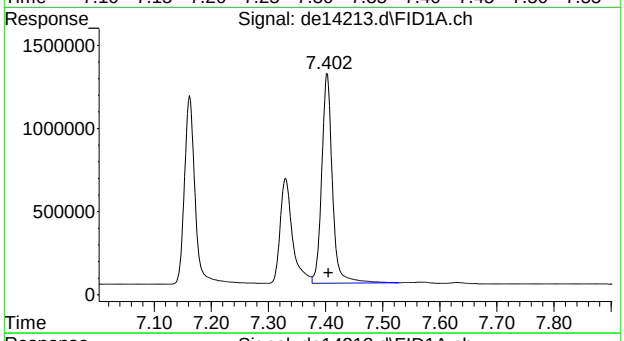
#5 acenaphthylene

R.T.: 7.162 min
Delta R.T.: -0.002 min
Response: 1475445
Conc: 14.67 µg/ml



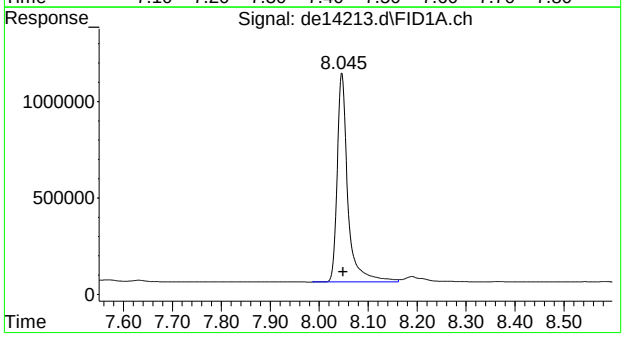
#6 2-bromonaphthalene

R.T.: 7.330 min
Delta R.T.: -0.002 min
Response: 952374
Conc: 15.18 µg/ml



#7 acenaphthene

R.T.: 7.402 min
Delta R.T.: -0.003 min
Response: 1625332
Conc: 15.72 µg/ml



#8 fluorene

R.T.: 8.045 min
Delta R.T.: -0.003 min
Response: 1638622
Conc: 16.13 µg/ml

9.3.3

9

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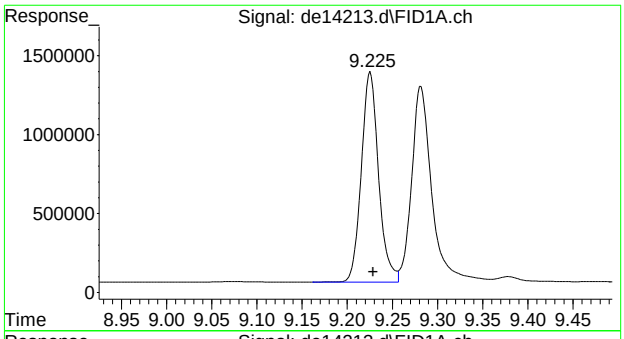
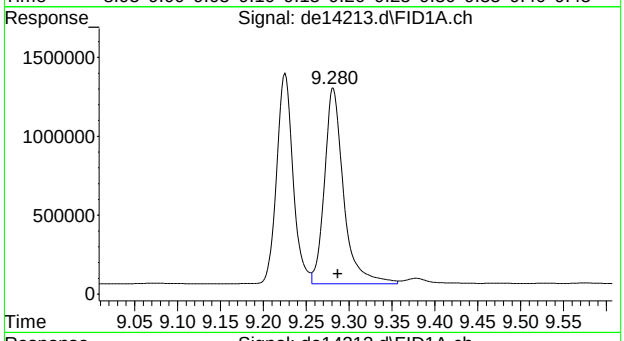


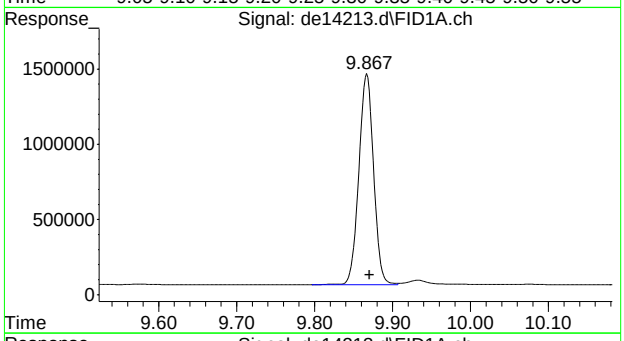
#9 phenanthrene

R.T.: 9.225 min
Delta R.T.: -0.003 min
Response: 1772713
Conc: 17.42 µg/ml



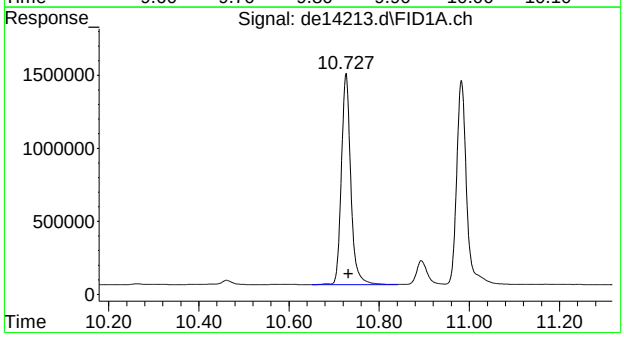
#10 anthracene

R.T.: 9.280 min
Delta R.T.: -0.007 min
Response: 1918756
Conc: 19.78 µg/ml



#11 o-terphenyl

R.T.: 9.867 min
Delta R.T.: -0.003 min
Response: 1843273
Conc: 18.00 µg/ml



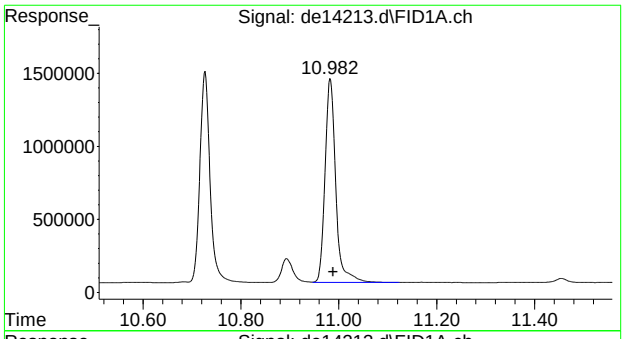
#12 fluoranthene

R.T.: 10.727 min
Delta R.T.: -0.005 min
Response: 2082732
Conc: 20.84 µg/ml

9.3.3

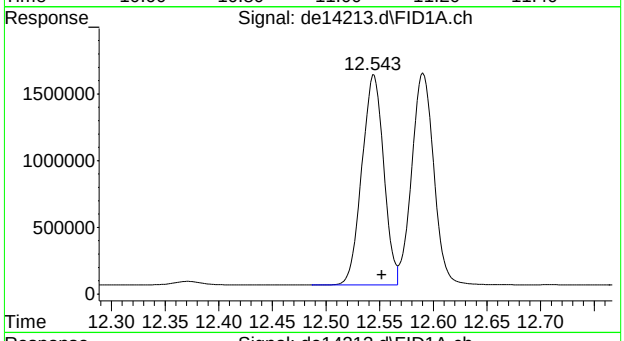
9

SGS ACCUTEST MC45897



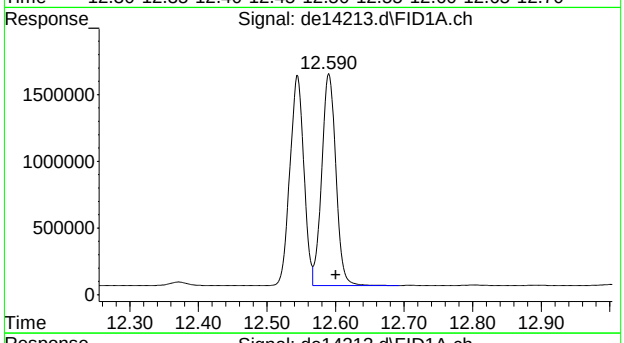
#13 pyrene

R.T.: 10.982 min
Delta R.T.: -0.007 min
Response: 2121409
Conc: 20.91 µg/ml



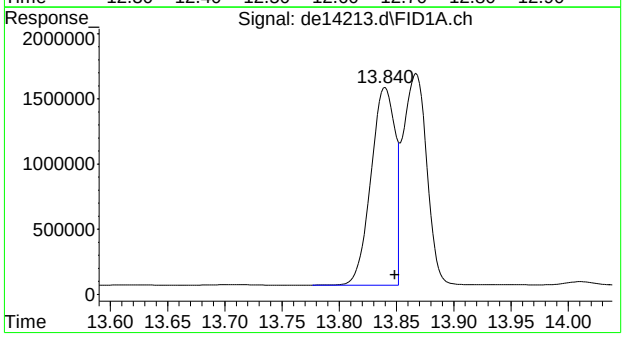
#14 benzo(a)anthracene

R.T.: 12.543 min
Delta R.T.: -0.008 min
Response: 2237789
Conc: 23.15 µg/ml



#15 chrysene

R.T.: 12.590 min
Delta R.T.: -0.010 min
Response: 2264601
Conc: 23.26 µg/ml



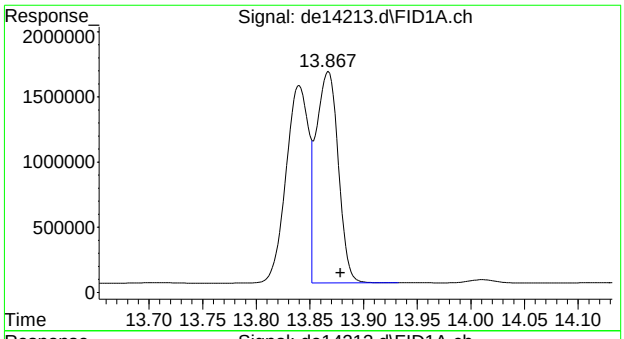
#16 benzo(B)fluoranthene

R.T.: 13.840 min
Delta R.T.: -0.008 min
Response: 2270155
Conc: 22.93 µg/ml

9.3.3

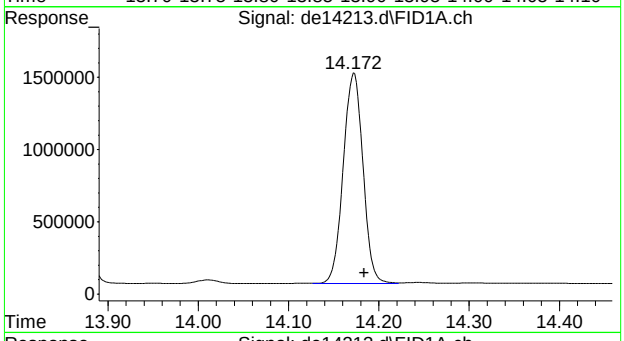
9

SGS ACCUTEST MC45897



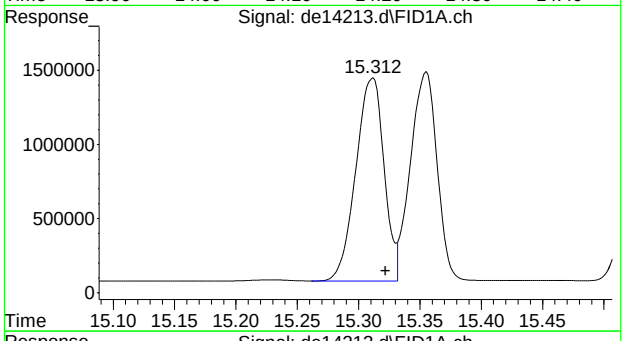
#17 benzo(k)fluoranthene

R.T.: 13.867 min
Delta R.T.: -0.012 min
Response: 2280508
Conc: 24.13 µg/ml



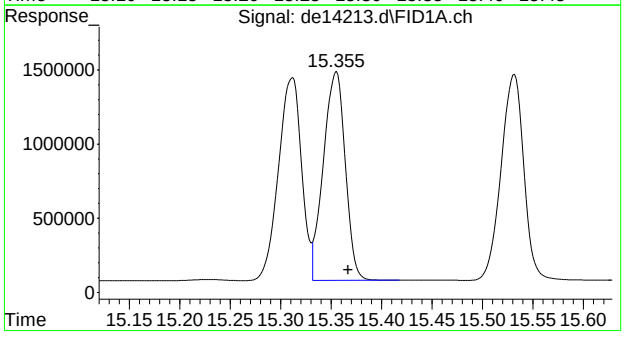
#18 benzo(a)pyrene

R.T.: 14.172 min
Delta R.T.: -0.012 min
Response: 2209054
Conc: 23.90 µg/ml



#19 indeno(1,2,3-cd)pyrene

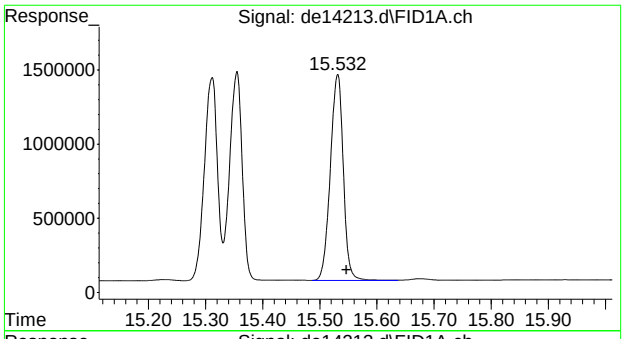
R.T.: 15.312 min
Delta R.T.: -0.010 min
Response: 2205873
Conc: 23.30 µg/ml



#20 dibenzo(ah)anthracene

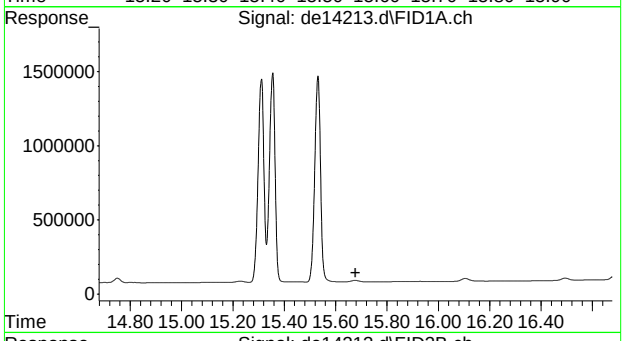
R.T.: 15.355 min
Delta R.T.: -0.012 min
Response: 2104656
Conc: 23.03 µg/ml

SGS ACCUTEST MC45897



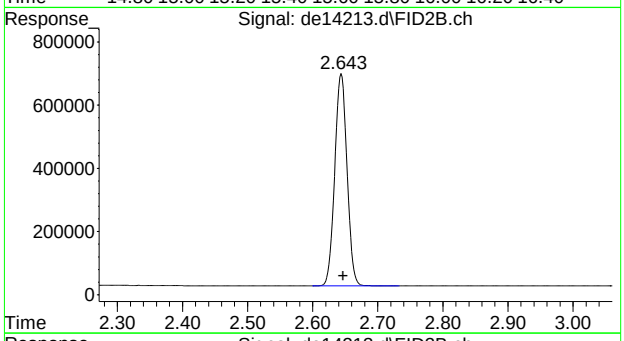
#21 benzo(ghi)perylene

R.T.: 15.532 min
Delta R.T.: -0.015 min
Response: 2186893
Conc: 23.74 µg/ml



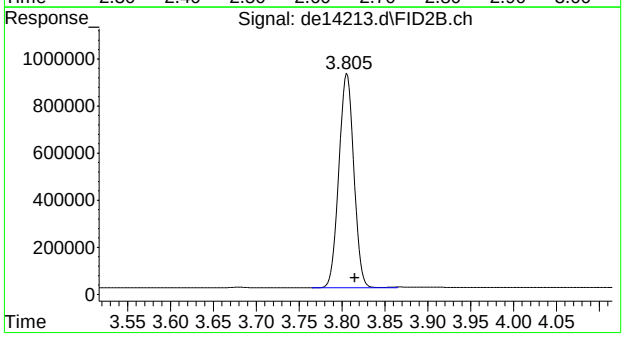
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 880136
Conc: 11.91 µg/ml m



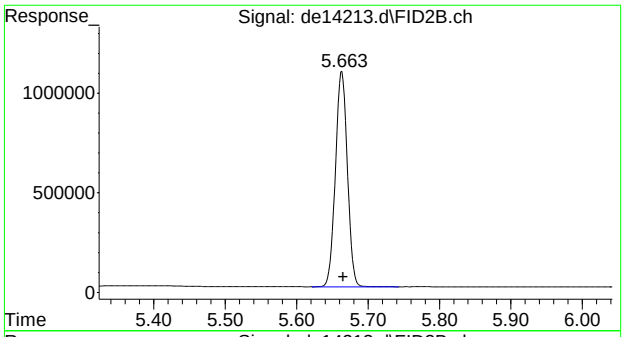
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1109730
Conc: 15.02 µg/ml

9.3.3

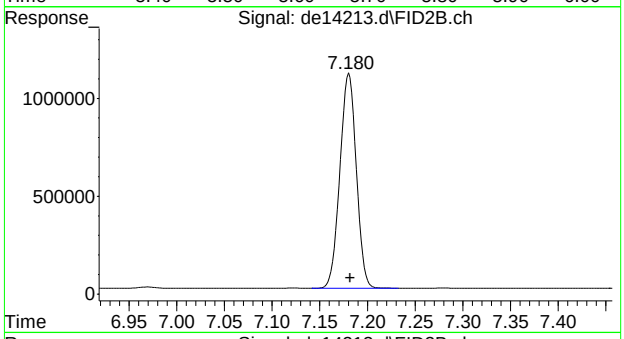
9

SGS ACCUTEST MC45897



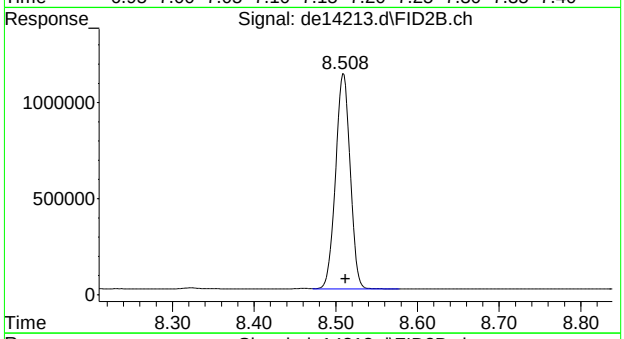
#28 c-12

R.T.: 5.663 min
Delta R.T.: -0.002 min
Response: 1254931
Conc: 16.99 µg/ml



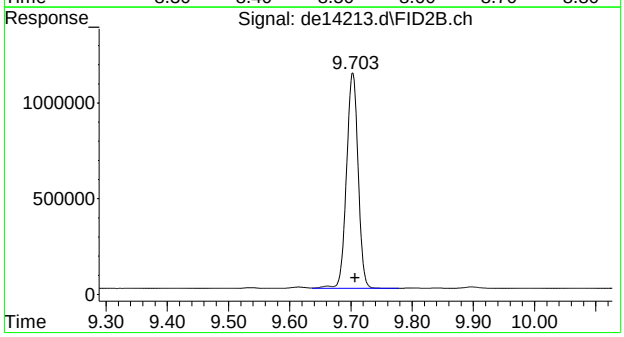
#30 c-14

R.T.: 7.180 min
Delta R.T.: -0.002 min
Response: 1315424
Conc: 17.81 µg/ml



#31 c-16

R.T.: 8.508 min
Delta R.T.: -0.003 min
Response: 1390551
Conc: 18.82 µg/ml



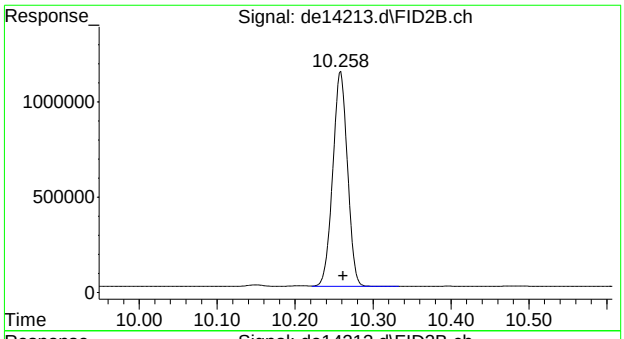
#32 c-18

R.T.: 9.703 min
Delta R.T.: -0.003 min
Response: 1489174
Conc: 20.16 µg/ml

9.3.3

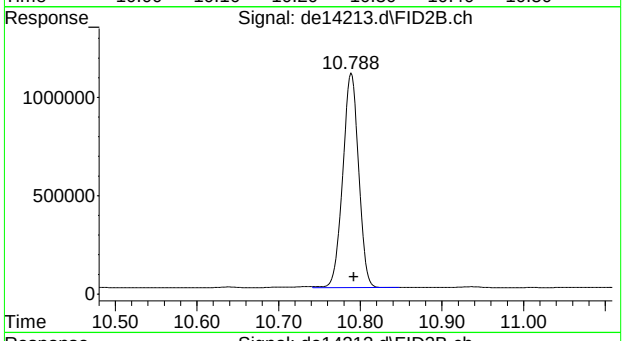
9

SGS ACCUTEST MC45897



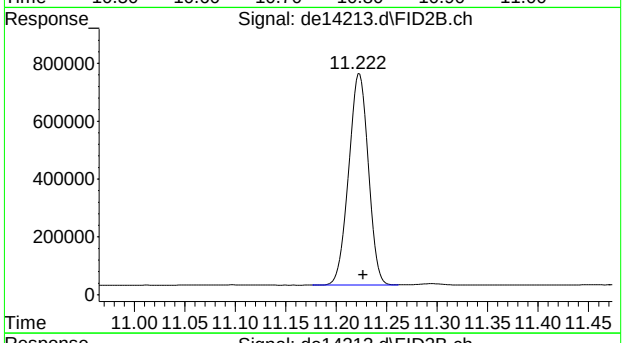
#33 c-19

R.T.: 10.258 min
Delta R.T.: -0.003 min
Response: 1474125
Conc: 22.07 µg/ml



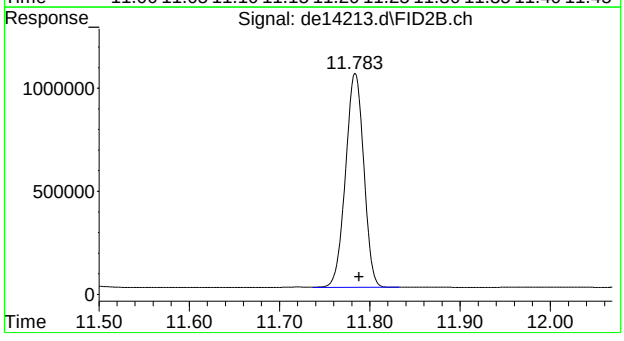
#34 c-20

R.T.: 10.788 min
Delta R.T.: -0.003 min
Response: 1467189
Conc: 21.96 µg/ml



#35 1-chlorooctadecane

R.T.: 11.222 min
Delta R.T.: -0.005 min
Response: 991240
Conc: 17.52 µg/ml



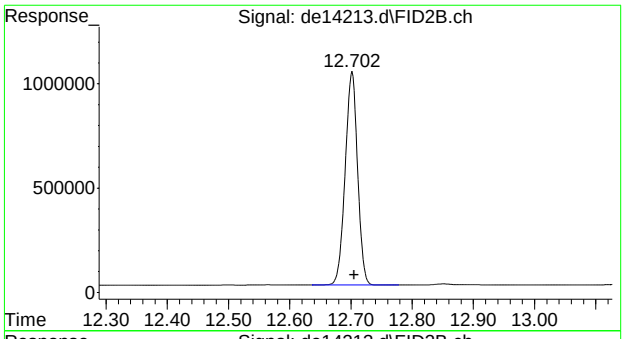
#36 c-22

R.T.: 11.783 min
Delta R.T.: -0.005 min
Response: 1454379
Conc: 21.77 µg/ml

9.3.3

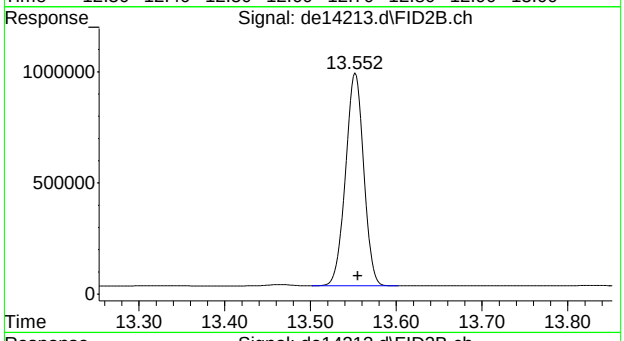
9

SGS ACCUTEST MC45897



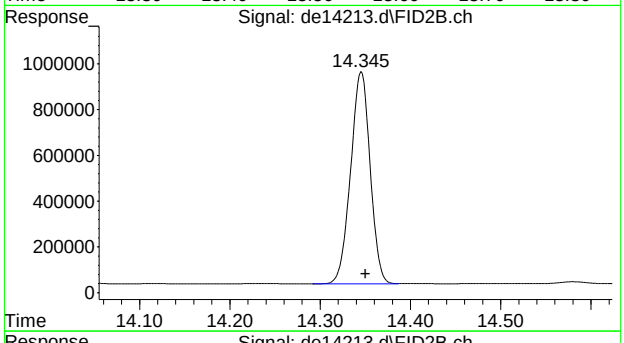
#37 c-24

R.T.: 12.702 min
Delta R.T.: -0.003 min
Response: 1438760
Conc: 21.54 µg/ml



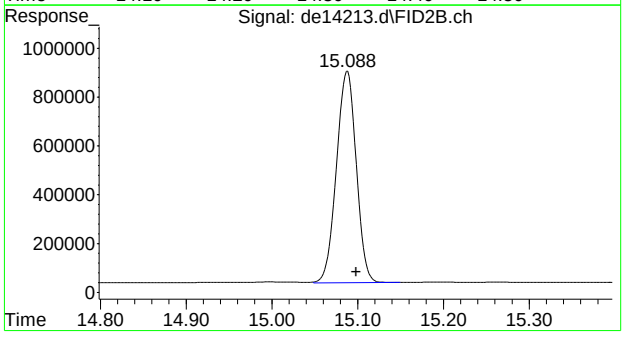
#38 c-26

R.T.: 13.552 min
Delta R.T.: -0.003 min
Response: 1406503
Conc: 21.05 µg/ml



#39 c-28

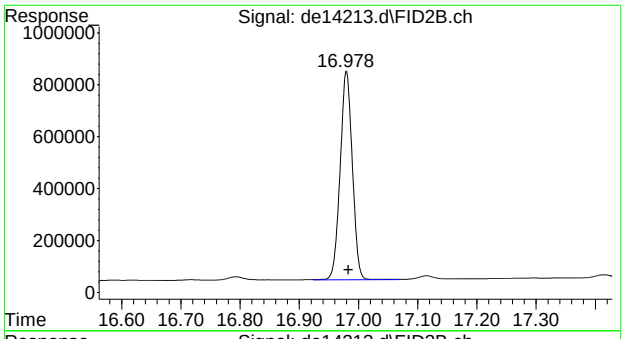
R.T.: 14.345 min
Delta R.T.: -0.005 min
Response: 1387957
Conc: 20.78 µg/ml



#40 c-30

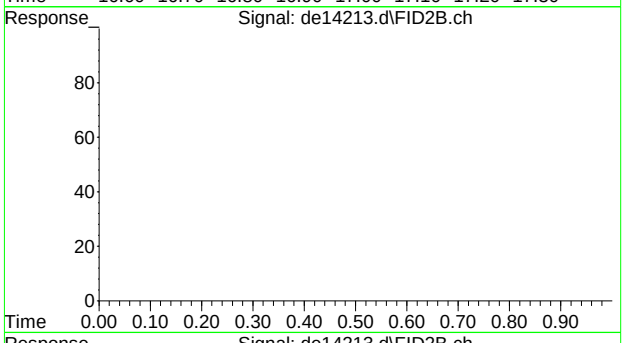
R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1390897
Conc: 20.82 µg/ml

SGS ACCUTEST MC45897



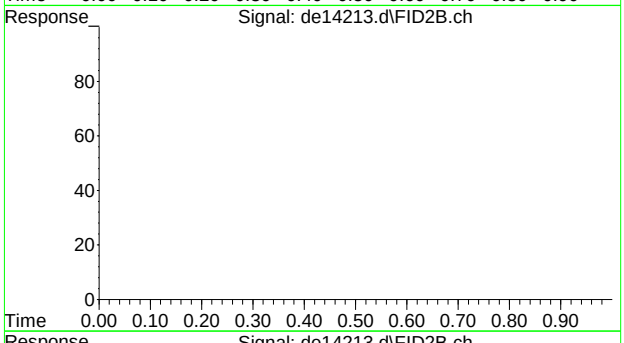
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1151643
Conc: 17.24 µg/ml m



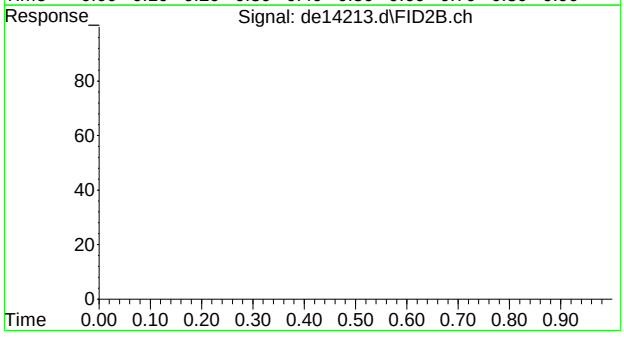
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

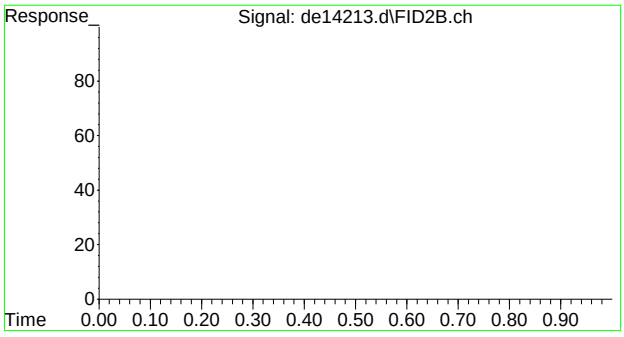
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45897



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.3

9

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160523EPH\
Data File : de14214.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 23 May 2016 9:28 am
Operator : thomasa
Sample : op47576-bsd
Misc : op47576,gde795,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:06:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.605	1613766	17.497 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery =	87.48%#
6) s	2-bromonaphthalene	7.330	1051487	16.755 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery =	83.78%#
11) s	o-terphenyl	9.867	1885908	18.412 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery =	92.06%#
35) s	1-chlorooctadecane	11.223	1013412	17.913 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery =	89.57%#
	Target Compounds			
1) h	c11-c22 Aromatics (Un...	5.203	39279106	399.972 µg/ml
2)	naphthalene	5.152	1491609	14.462 µg/ml
3)	2-methylnaphthalene	6.052	1583082	15.447 µg/ml
5)	acenaphthylene	7.162	1711565	17.013 µg/ml
7)	acenaphthene	7.403	1956571	18.927 µg/ml
8)	fluorene	8.047	1874701	18.458 µg/ml
9)	phenanthrene	9.225	1978787	19.445 µg/ml
10)	anthracene	9.282	2169760	22.367 µg/ml
12)	fluoranthene	10.727	2286925	22.883 µg/ml
13)	pyrene	10.983	2312990	22.797 µg/ml
14)	benzo(a)anthracene	12.545	2300874	23.800 µg/ml
15)	chrysene	12.590	2372967	24.378 µg/ml
16)	benzo(B)fluoranthene	13.843	2398955	24.231 µg/ml
17)	benzo(k)fluoranthene	13.868	2109237	22.319 µg/ml
18)	benzo(a)pyrene	14.175	2165153	23.423 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.312	2090166	22.081 µg/ml
20)	dibenzo(ah)anthracene	15.355	2105011	23.031 µg/ml
21)	benzo(ghi)perylene	15.532	2119887	23.011 µg/ml
25) h	c-9	2.647	922939	12.494 µg/mlm
26) h	c-10	3.815	1173734	15.889 µg/ml
28)	c-12	5.663	1339854	18.137 µg/ml
29)	2-methylnaphthalene #2	6.380	1204	0.015 µg/ml
30)	c-14	7.180	1410782	19.098 µg/ml
31)	c-16	8.510	1508091	20.415 µg/ml
32)	c-18	9.703	1640804	22.211 µg/ml
33)	c-19	10.258	1634757	24.470 µg/ml
34)	c-20	10.788	1637260	24.508 µg/ml
36)	c-22	11.783	1623185	24.297 µg/ml
37)	c-24	12.702	1608580	24.078 µg/ml
38)	c-26	13.553	1579826	23.648 µg/ml
39)	c-28	14.345	1567582	23.465 µg/ml
40) h	c-30	15.098	1576837	23.603 µg/ml
41) h	c-36	16.983	1379259	20.646 µg/mlm

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

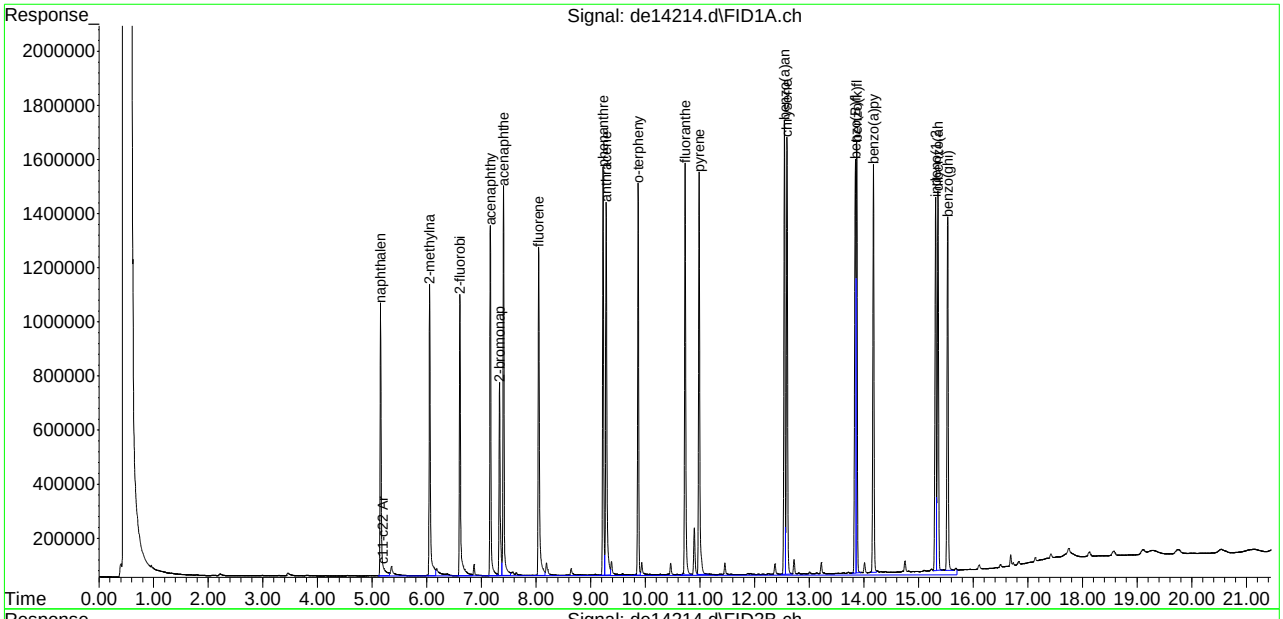
SGS ACCUTEST MC45897

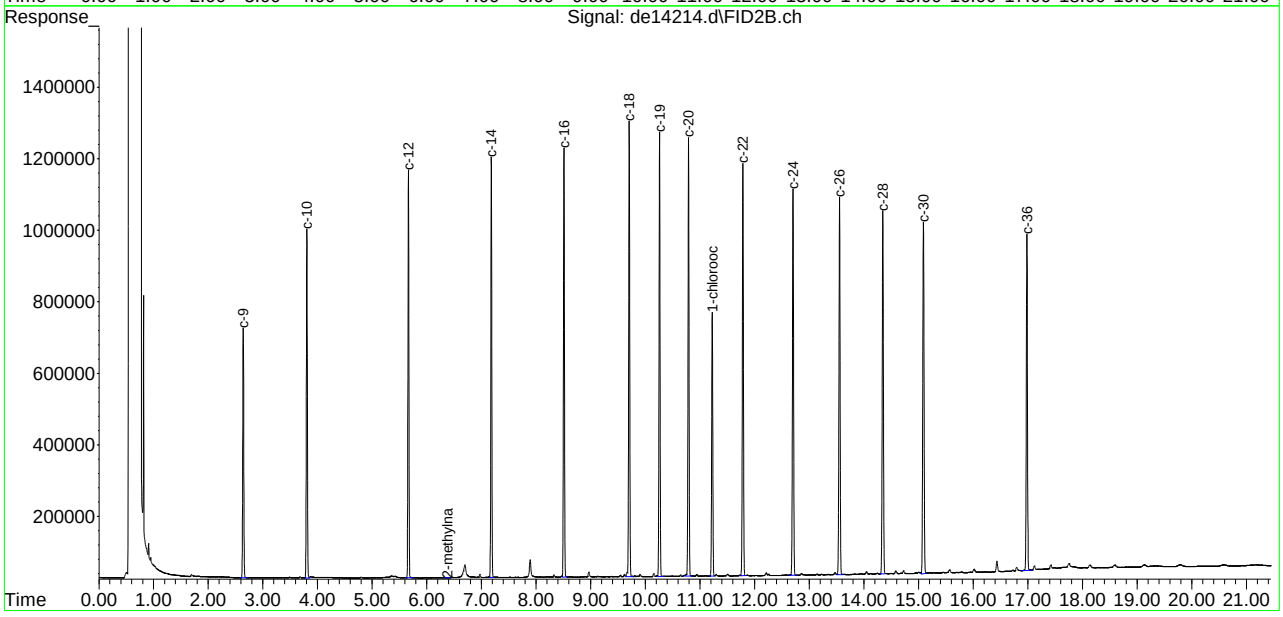
Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160523EPH\
Data File : de14214.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 23 May 2016 9:28 am
Operator : thomasa
Sample : op47576-bsd
Misc : op47576,gde795,1000,,,2,,s
ALS Vial : 4 Sample Multiplier: 1

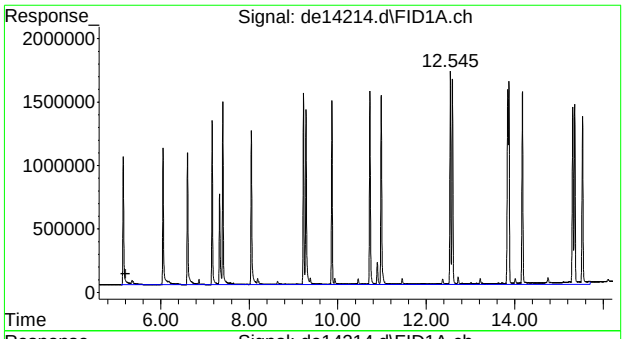
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:06:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



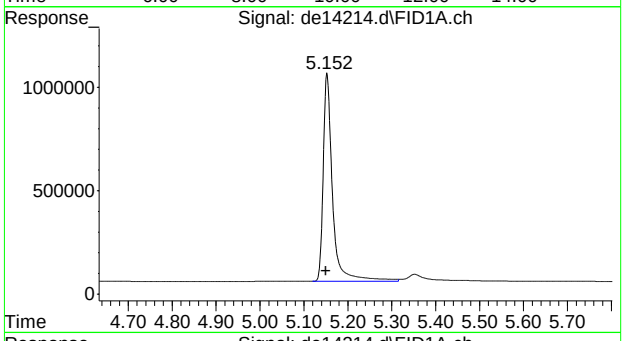


SGS ACCUTEST MC45897



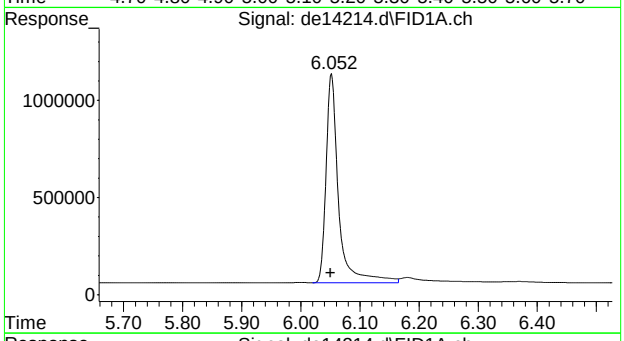
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 39279106
Conc: 399.97 µg/ml



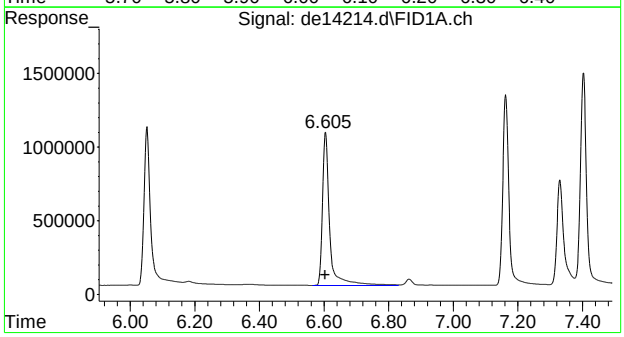
#2 naphthalene

R.T.: 5.152 min
Delta R.T.: 0.002 min
Response: 1491609
Conc: 14.46 µg/ml



#3 2-methylnaphthalene

R.T.: 6.052 min
Delta R.T.: 0.002 min
Response: 1583082
Conc: 15.45 µg/ml



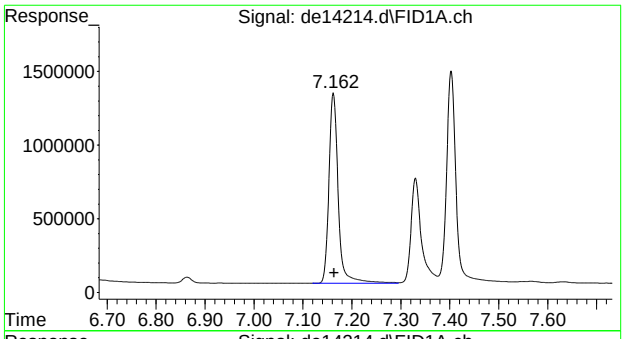
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 1613766
Conc: 17.50 µg/ml

9.3.4

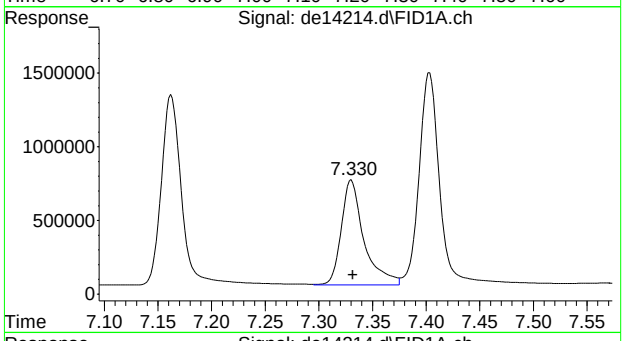
9

SGS ACCUTEST MC45897



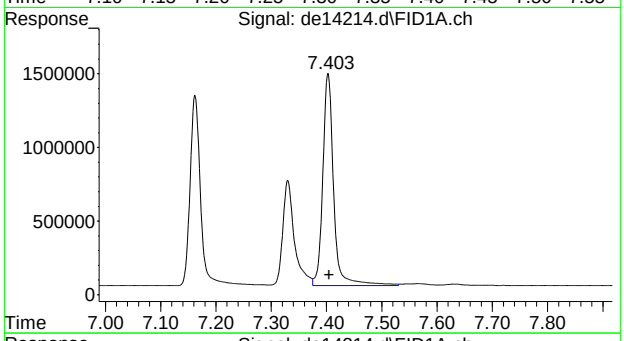
#5 acenaphthylene

R.T.: 7.162 min
Delta R.T.: -0.002 min
Response: 1711565
Conc: 17.01 µg/ml



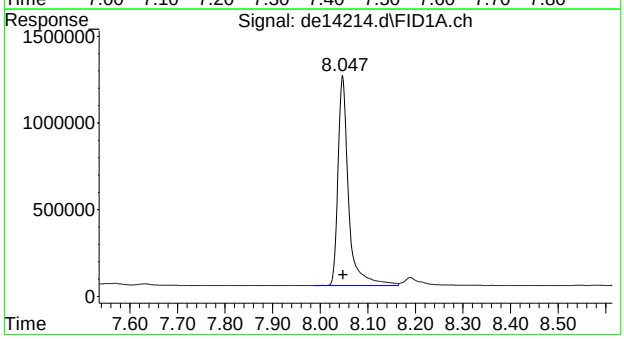
#6 2-bromonaphthalene

R.T.: 7.330 min
Delta R.T.: -0.002 min
Response: 1051487
Conc: 16.76 µg/ml



#7 acenaphthene

R.T.: 7.403 min
Delta R.T.: -0.002 min
Response: 1956571
Conc: 18.93 µg/ml



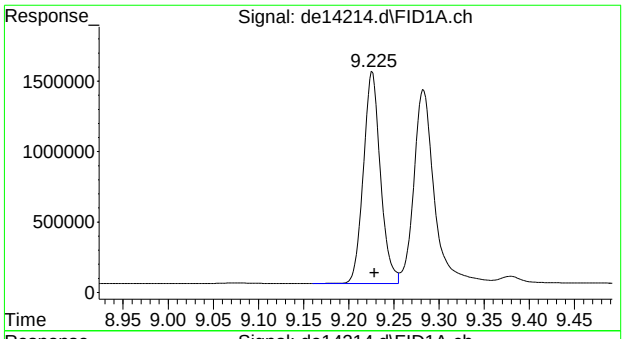
#8 fluorene

R.T.: 8.047 min
Delta R.T.: -0.002 min
Response: 1874701
Conc: 18.46 µg/ml

9.3.4

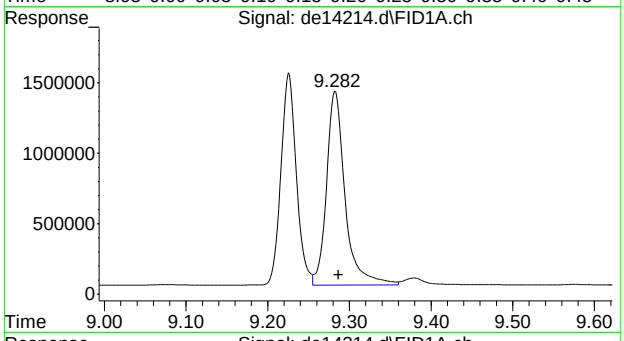
9

SGS ACCUTEST MC45897



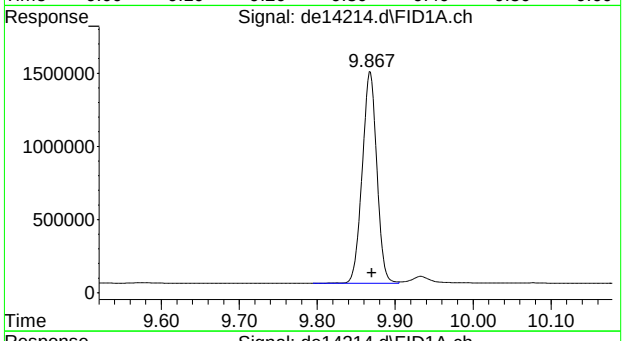
#9 phenanthrene

R.T.: 9.225 min
Delta R.T.: -0.003 min
Response: 1978787
Conc: 19.45 µg/ml



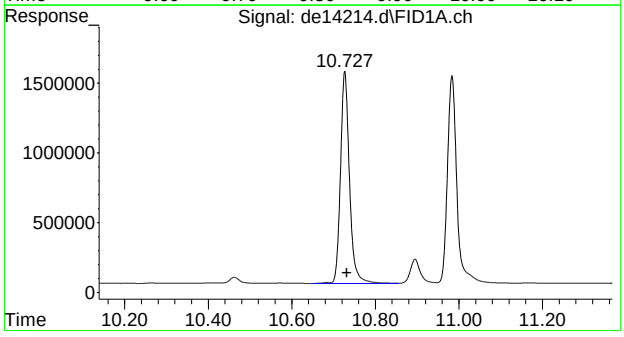
#10 anthracene

R.T.: 9.282 min
Delta R.T.: -0.005 min
Response: 2169760
Conc: 22.37 µg/ml



#11 o-terphenyl

R.T.: 9.867 min
Delta R.T.: -0.003 min
Response: 1885908
Conc: 18.41 µg/ml



#12 fluoranthene

R.T.: 10.727 min
Delta R.T.: -0.005 min
Response: 2286925
Conc: 22.88 µg/ml

9.3.4

9

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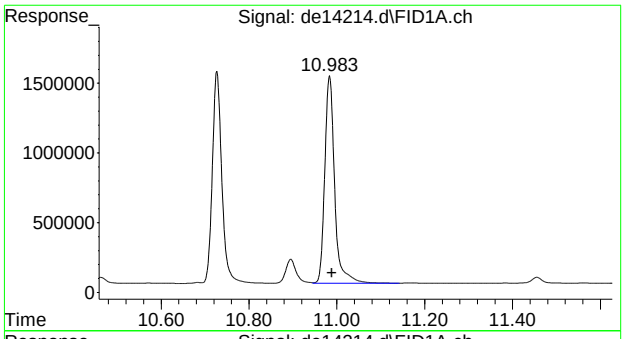
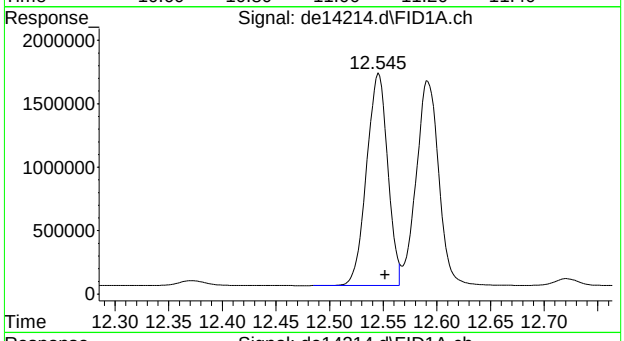


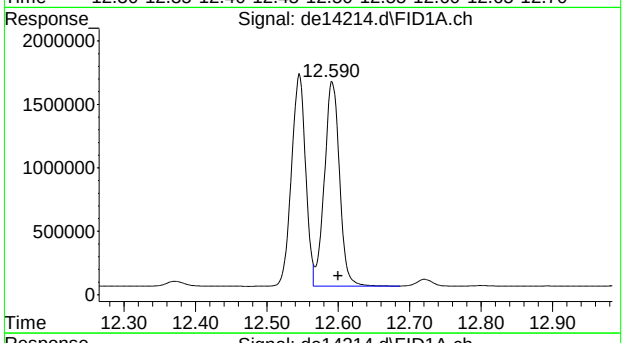
#13 pyrene

R.T.: 10.983 min
Delta R.T.: -0.005 min
Response: 2312990
Conc: 22.80 µg/ml



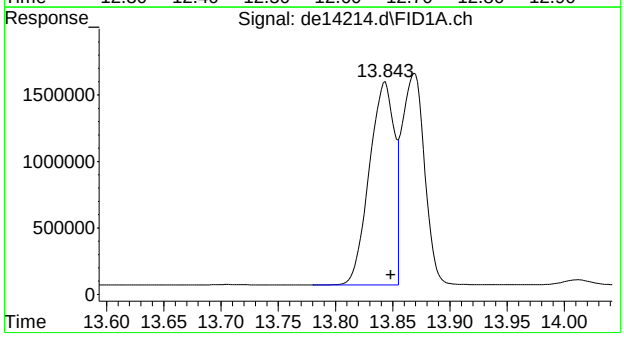
#14 benzo(a)anthracene

R.T.: 12.545 min
Delta R.T.: -0.007 min
Response: 2300874
Conc: 23.80 µg/ml



#15 chrysene

R.T.: 12.590 min
Delta R.T.: -0.010 min
Response: 2372967
Conc: 24.38 µg/ml



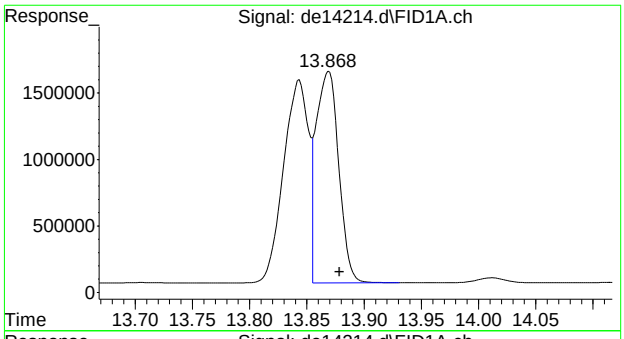
#16 benzo(B)fluoranthene

R.T.: 13.843 min
Delta R.T.: -0.005 min
Response: 2398955
Conc: 24.23 µg/ml

9.3.4

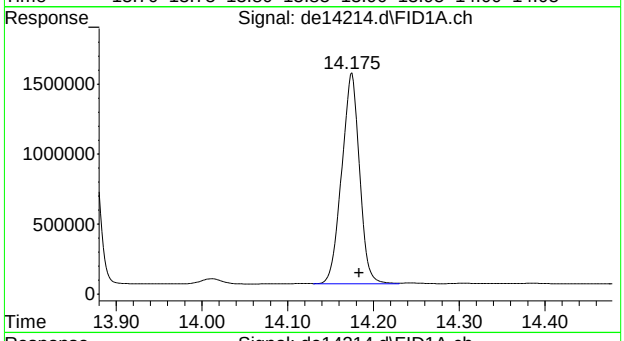
9

SGS ACCUTEST MC45897



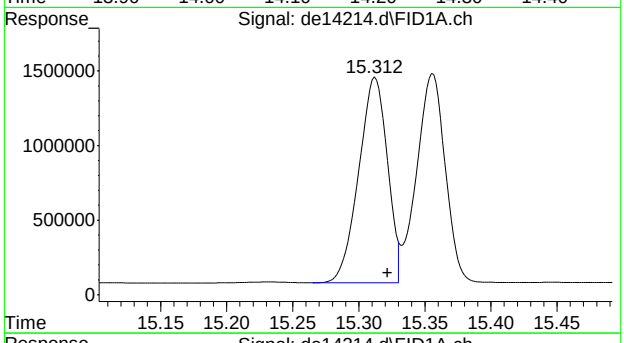
#17 benzo(k)fluoranthene

R.T.: 13.868 min
Delta R.T.: -0.010 min
Response: 2109237
Conc: 22.32 µg/ml



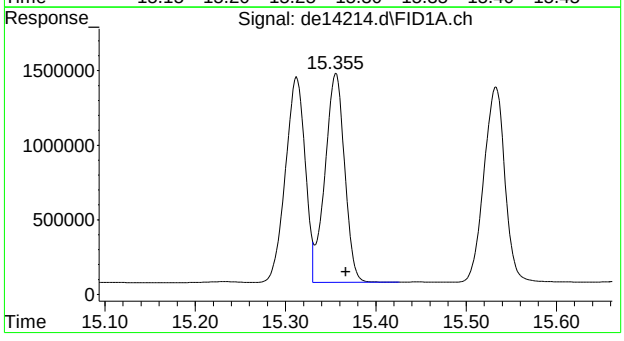
#18 benzo(a)pyrene

R.T.: 14.175 min
Delta R.T.: -0.008 min
Response: 2165153
Conc: 23.42 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.312 min
Delta R.T.: -0.010 min
Response: 2090166
Conc: 22.08 µg/ml



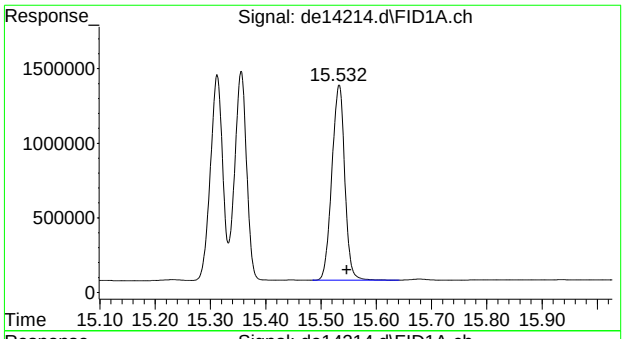
#20 dibenzo(ah)anthracene

R.T.: 15.355 min
Delta R.T.: -0.012 min
Response: 2105011
Conc: 23.03 µg/ml

9.3.4

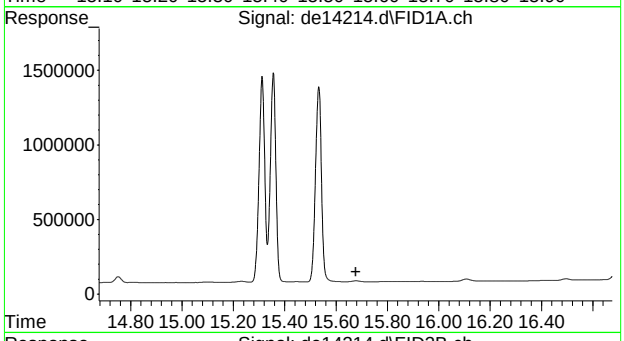
9

SGS ACCUTEST MC45897



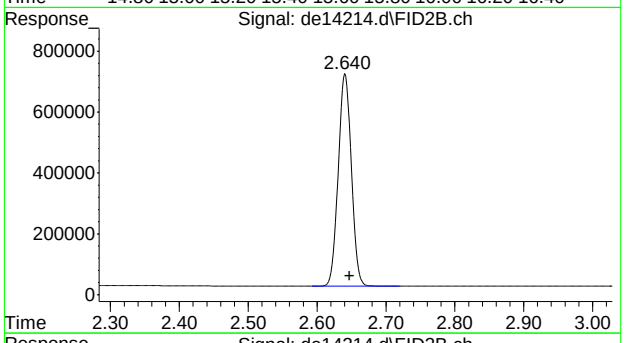
#21 benzo(ghi)perylene

R.T.: 15.532 min
Delta R.T.: -0.015 min
Response: 2119887
Conc: 23.01 µg/ml



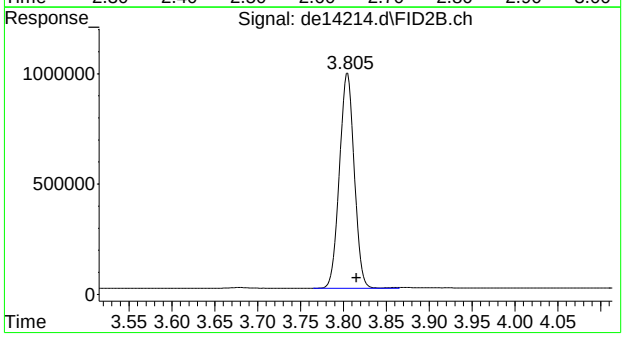
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 922939
Conc: 12.49 µg/ml m



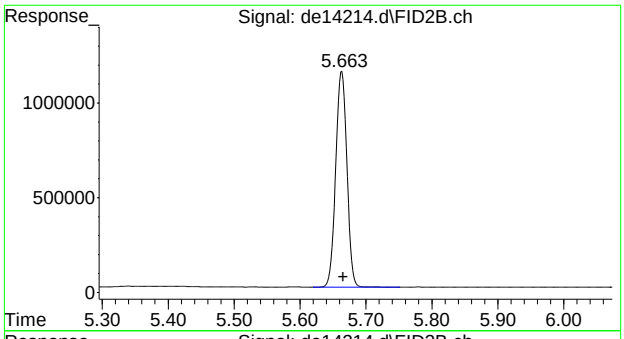
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1173734
Conc: 15.89 µg/ml

9.3.4

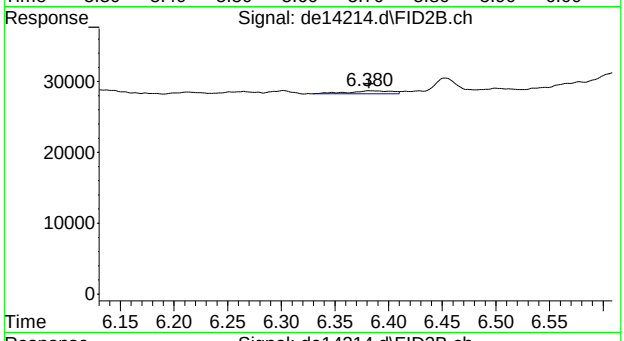
9

SGS ACCUTEST MC45897



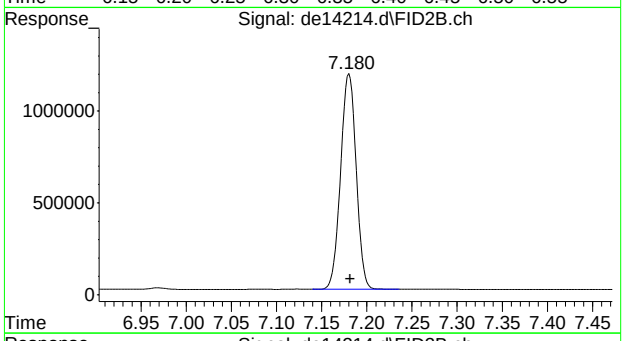
#28 c-12

R.T.: 5.663 min
Delta R.T.: -0.002 min
Response: 1339854
Conc: 18.14 µg/ml



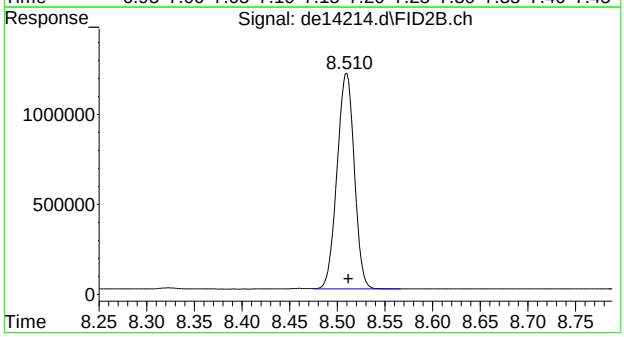
#29 2-methylnaphthalene #2

R.T.: 6.380 min
Delta R.T.: -0.002 min
Response: 1204
Conc: 0.01 µg/ml



#30 c-14

R.T.: 7.180 min
Delta R.T.: -0.002 min
Response: 1410782
Conc: 19.10 µg/ml



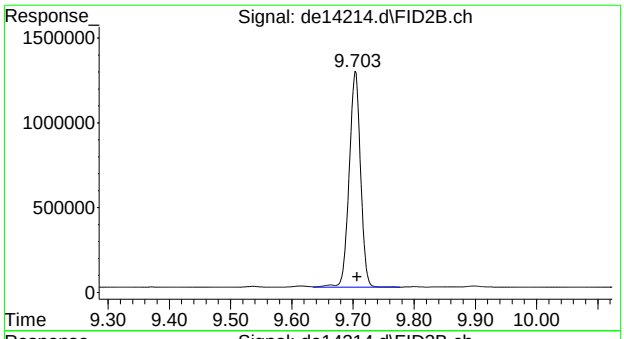
#31 c-16

R.T.: 8.510 min
Delta R.T.: -0.002 min
Response: 1508091
Conc: 20.41 µg/ml

9.3.4

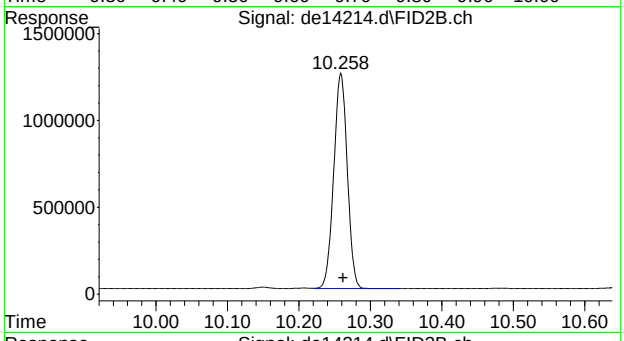
9

SGS ACCUTEST MC45897



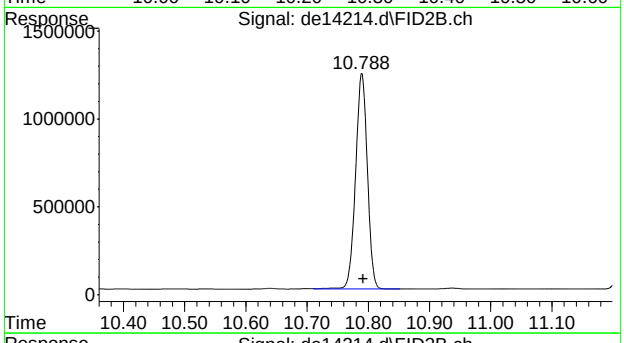
#32 c-18

R.T.: 9.703 min
Delta R.T.: -0.003 min
Response: 1640804
Conc: 22.21 µg/ml



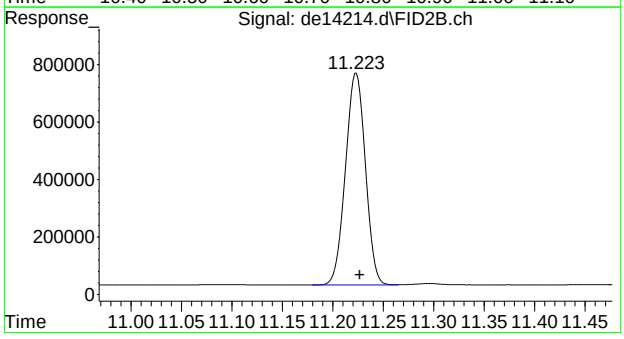
#33 c-19

R.T.: 10.258 min
Delta R.T.: -0.003 min
Response: 1634757
Conc: 24.47 µg/ml



#34 c-20

R.T.: 10.788 min
Delta R.T.: -0.003 min
Response: 1637260
Conc: 24.51 µg/ml



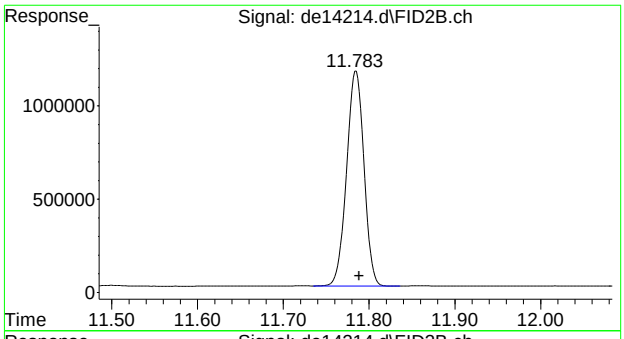
#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.003 min
Response: 1013412
Conc: 17.91 µg/ml

9.3.4

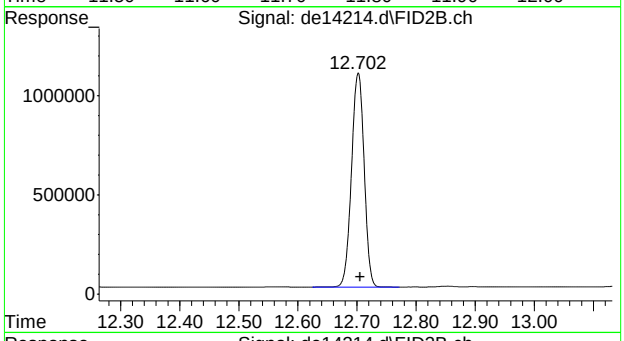
9

SGS ACCUTEST MC45897



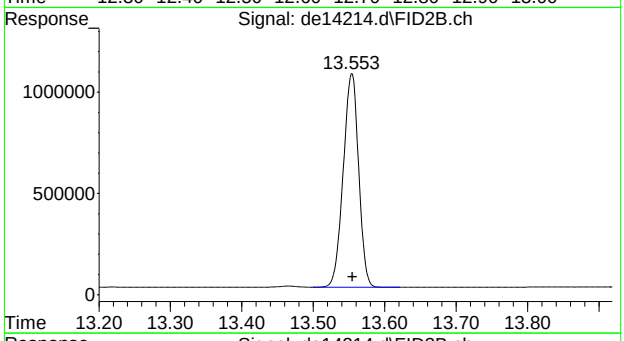
#36 c-22

R.T.: 11.783 min
Delta R.T.: -0.005 min
Response: 1623185
Conc: 24.30 µg/ml



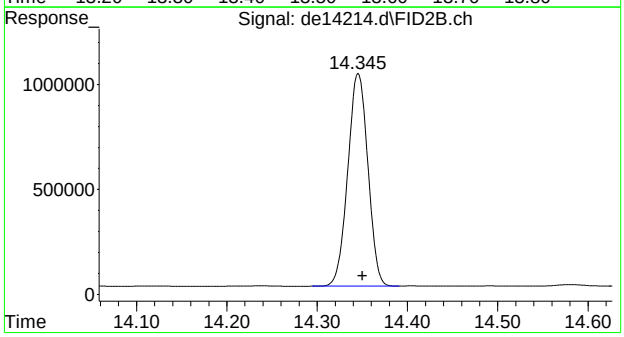
#37 c-24

R.T.: 12.702 min
Delta R.T.: -0.003 min
Response: 1608580
Conc: 24.08 µg/ml



#38 c-26

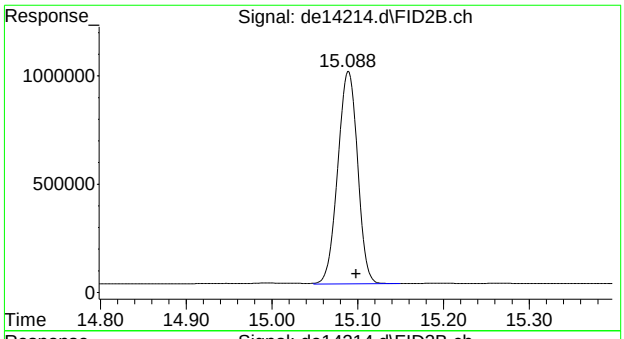
R.T.: 13.553 min
Delta R.T.: -0.002 min
Response: 1579826
Conc: 23.65 µg/ml



#39 c-28

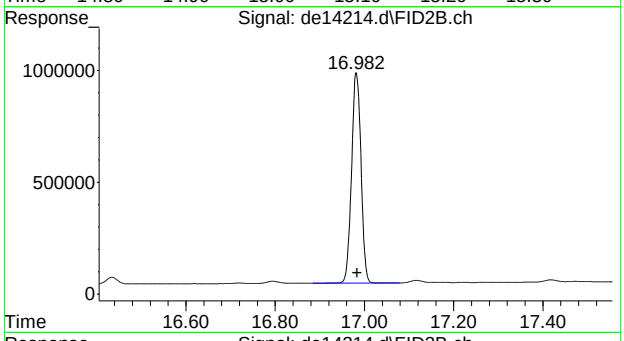
R.T.: 14.345 min
Delta R.T.: -0.005 min
Response: 1567582
Conc: 23.46 µg/ml

SGS ACCUTEST MC45897



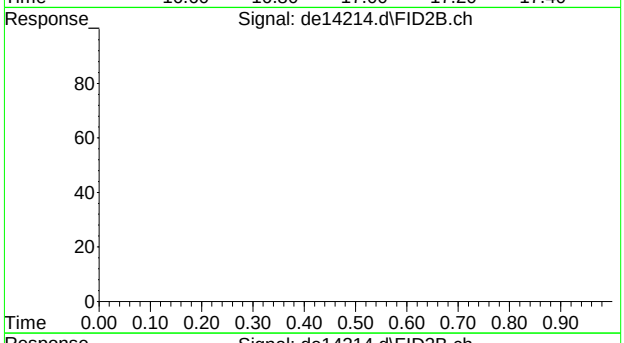
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1576837
Conc: 23.60 µg/ml



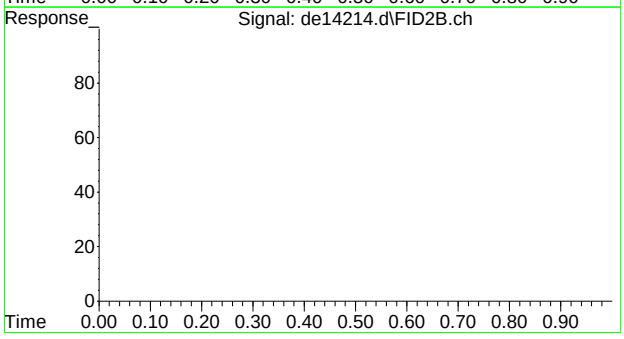
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1379259
Conc: 20.65 µg/ml m



#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



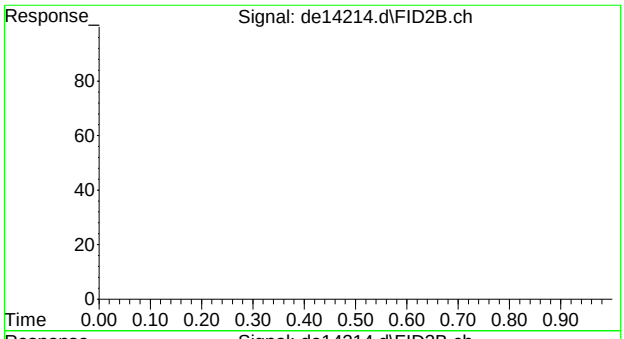
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.4

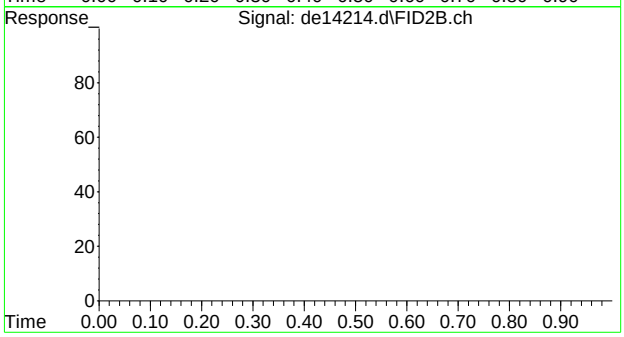
9

SGS ACCUTEST MC45897



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14167.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 3:59 pm
Operator : thomasa
Sample : op47498-ms
Misc : op47498,gde793,890,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:44:52 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	1758884	19.071 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 95.36%#		
6) s 2-bromonaphthalene	7.332	1110026	17.688 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 88.44%#		
11) s o-terphenyl	9.868	1802243	17.595 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 87.97%#		
35) s 1-chlorooctadecane	11.223	758460	13.406 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 67.03%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	36517433	371.850 µg/mlm
2) naphthalene	5.155	1474389	14.295 µg/ml
3) 2-methylnaphthalene	6.053	1546580	15.091 µg/ml
5) acenaphthylene	7.165	1676180	16.662 µg/ml
7) acenaphthene	7.405	1917513	18.549 µg/ml
8) fluorene	8.048	1862514	18.338 µg/ml
9) phenanthrene	9.228	1927665	18.943 µg/ml
10) anthracene	9.285	2062168	21.258 µg/ml
12) fluoranthene	10.730	2100843	21.021 µg/ml
13) pyrene	10.987	2108155	20.778 µg/ml
14) benzo(a)anthracene	12.547	2083388	21.550 µg/ml
15) chrysene	12.595	2126663	21.848 µg/ml
16) benzo(B)fluoranthene	13.843	2050261	20.709 µg/ml
17) benzo(k)fluoranthene	13.872	2137889	22.623 µg/ml
18) benzo(a)pyrene	14.177	2062818	22.316 µg/ml
19) indeno(1,2,3-cd)pyrene	15.315	2071276	21.882 µg/ml
20) dibenzo(ah)anthracene	15.360	2023578	22.140 µg/ml
21) benzo(ghi)perylene	15.535	2053948	22.296 µg/ml
25) h c-9	2.647	7598396	102.859 µg/mlm
41) h c-36	16.983	11476833	171.792 µg/mlm

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

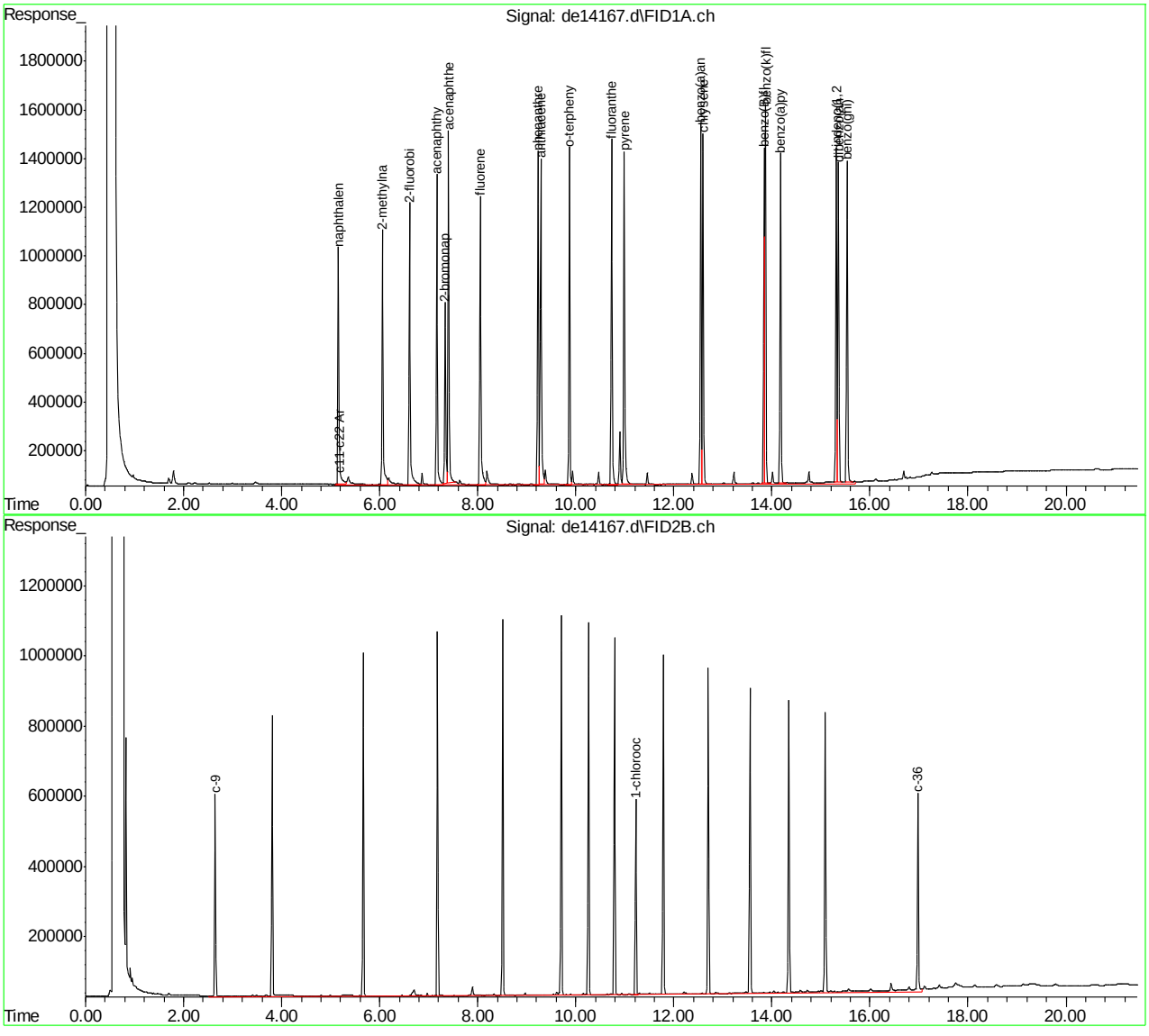
SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

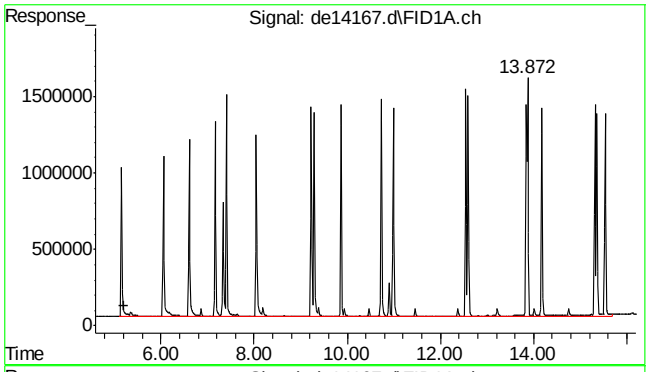
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14167.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 3:59 pm
Operator : thomasa
Sample : op47498-ms
Misc : op47498,gde793,890,,,2,,s
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:44:52 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

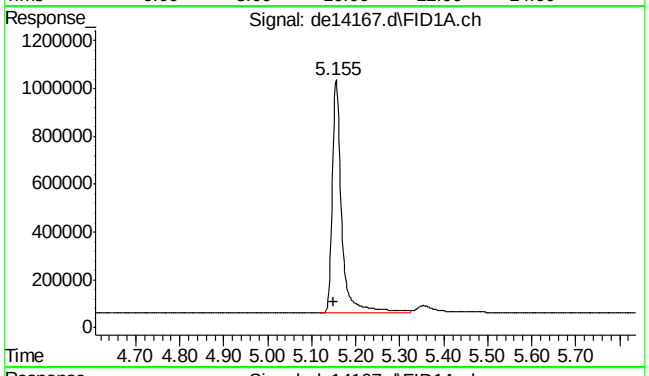


SGS ACCUTEST MC45897



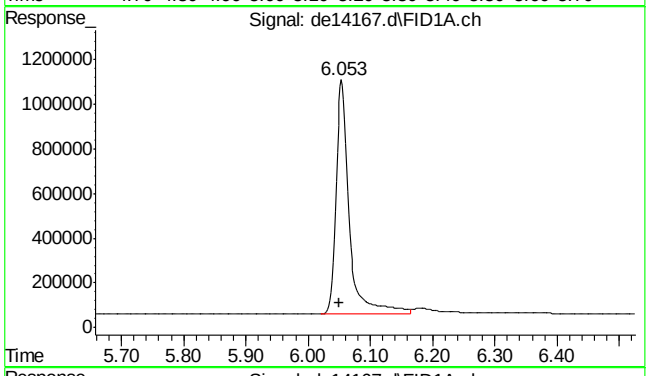
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 36517433
Conc: 371.85 µg/ml m



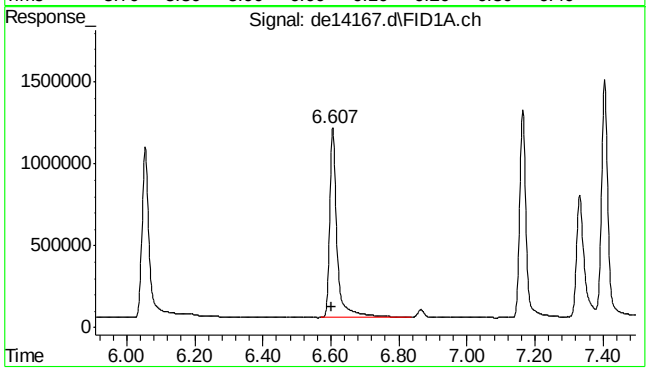
#2 naphthalene

R.T.: 5.155 min
Delta R.T.: 0.005 min
Response: 1474389
Conc: 14.30 µg/ml



#3 2-methylnaphthalene

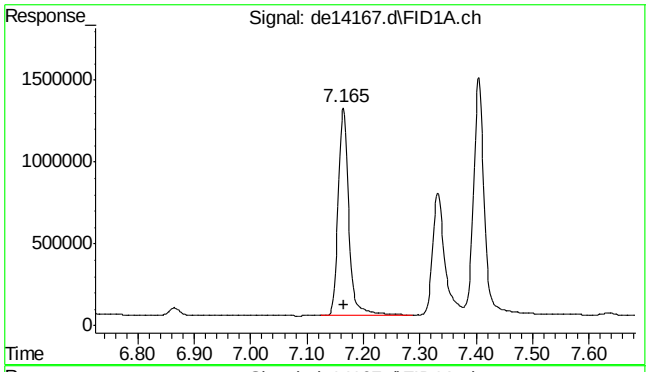
R.T.: 6.053 min
Delta R.T.: 0.003 min
Response: 1546580
Conc: 15.09 µg/ml



#4 2-fluorobiphenyl

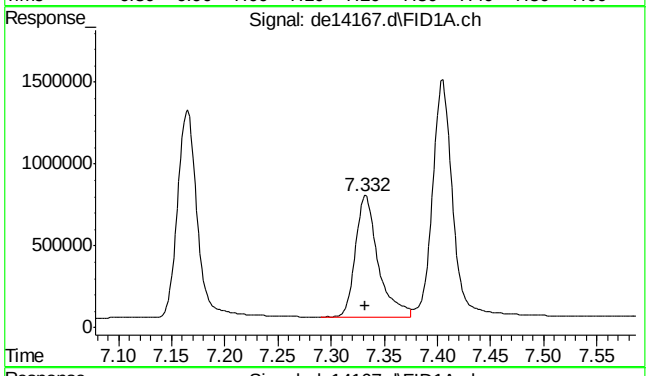
R.T.: 6.607 min
Delta R.T.: 0.003 min
Response: 1758884
Conc: 19.07 µg/ml

SGS ACCUTEST MC45897



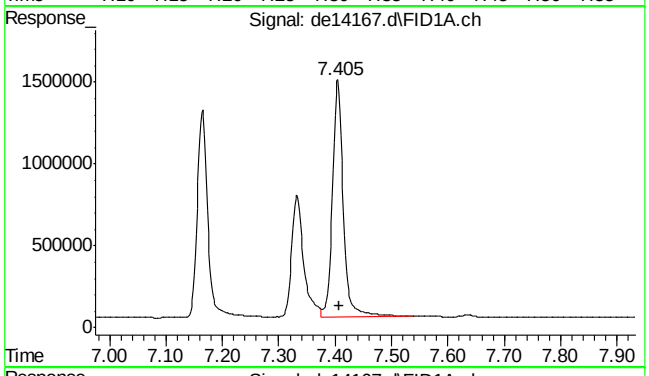
#5 acenaphthylene

R.T.: 7.165 min
Delta R.T.: 0.000 min
Response: 1676180
Conc: 16.66 µg/ml



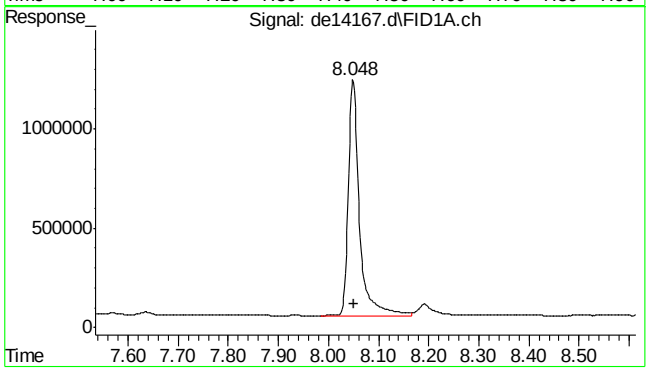
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 1110026
Conc: 17.69 µg/ml



#7 acenaphthene

R.T.: 7.405 min
Delta R.T.: -0.002 min
Response: 1917513
Conc: 18.55 µg/ml



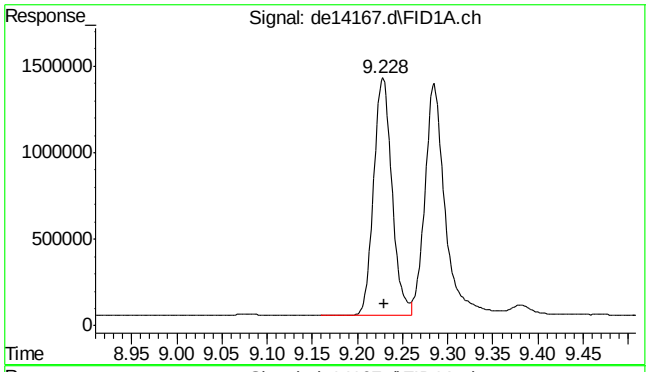
#8 fluorene

R.T.: 8.048 min
Delta R.T.: -0.002 min
Response: 1862514
Conc: 18.34 µg/ml

9.4.1

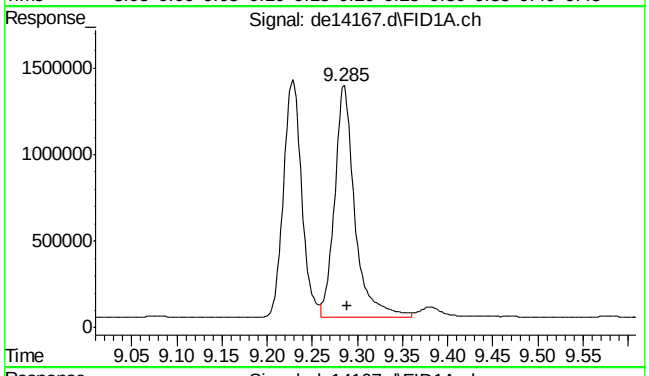
9

SGS ACCUTEST MC45897



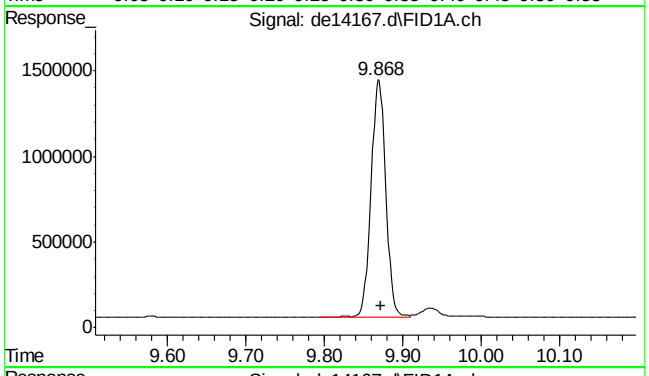
#9 phenanthrene

R.T.: 9.228 min
Delta R.T.: -0.002 min
Response: 1927665
Conc: 18.94 µg/ml



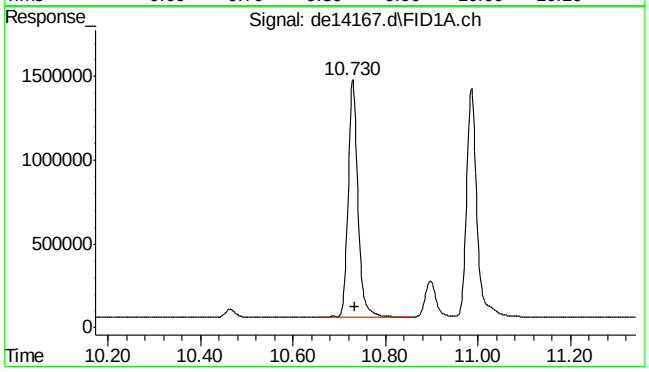
#10 anthracene

R.T.: 9.285 min
Delta R.T.: -0.003 min
Response: 2062168
Conc: 21.26 µg/ml



#11 o-terphenyl

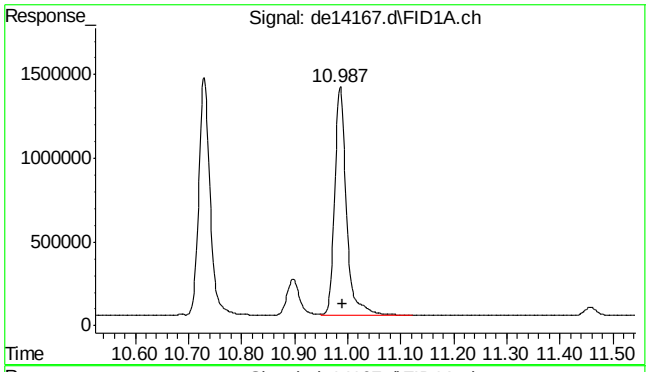
R.T.: 9.868 min
Delta R.T.: -0.003 min
Response: 1802243
Conc: 17.60 µg/ml



#12 fluoranthene

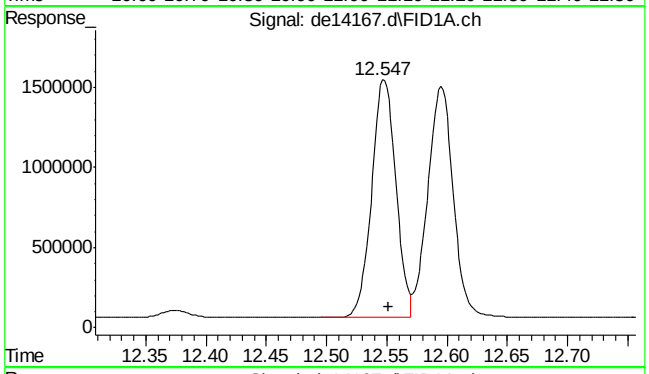
R.T.: 10.730 min
Delta R.T.: -0.003 min
Response: 2100843
Conc: 21.02 µg/ml

SGS ACCUTEST MC45897



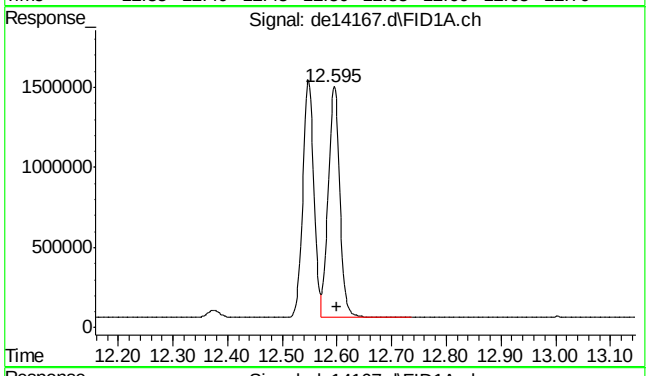
#13 pyrene

R.T.: 10.987 min
Delta R.T.: -0.003 min
Response: 2108155
Conc: 20.78 µg/ml



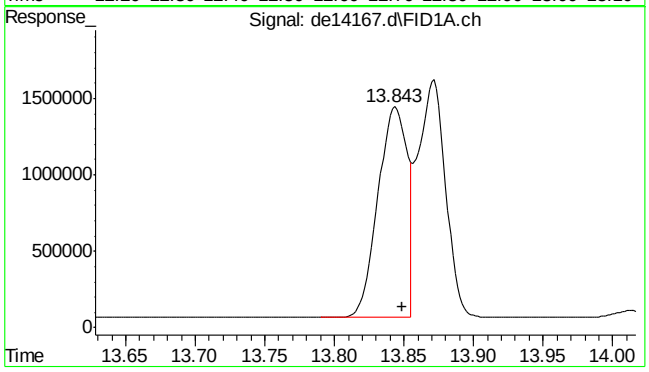
#14 benzo(a)anthracene

R.T.: 12.547 min
Delta R.T.: -0.005 min
Response: 2083388
Conc: 21.55 µg/ml



#15 chrysene

R.T.: 12.595 min
Delta R.T.: -0.005 min
Response: 2126663
Conc: 21.85 µg/ml



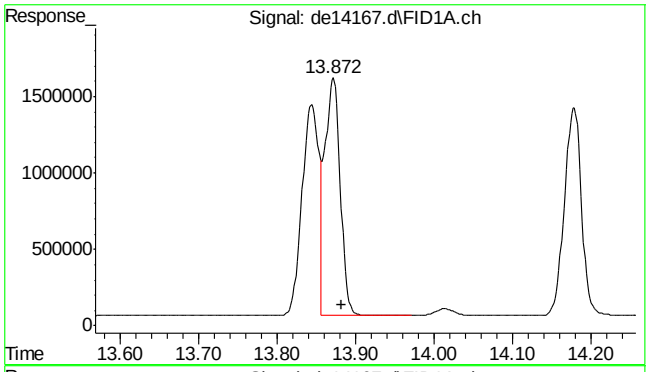
#16 benzo(B)fluoranthene

R.T.: 13.843 min
Delta R.T.: -0.005 min
Response: 2050261
Conc: 20.71 µg/ml

9.4.1

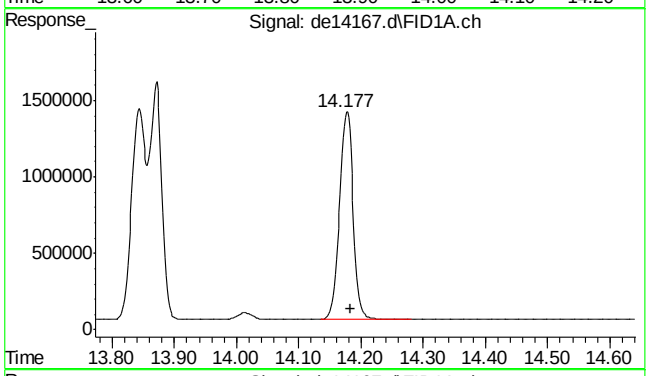
9

SGS ACCUTEST MC45897



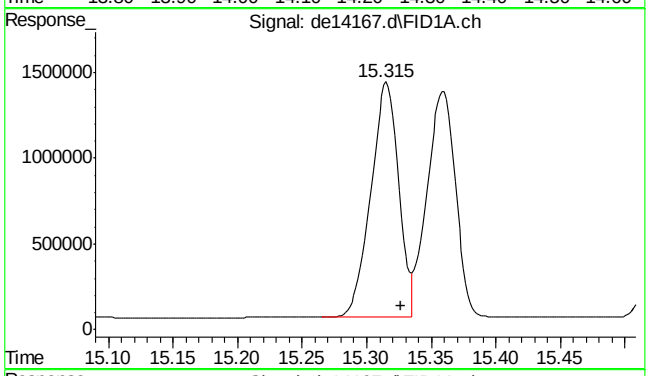
#17 benzo(k)fluoranthene

R.T.: 13.872 min
Delta R.T.: -0.010 min
Response: 2137889
Conc: 22.62 µg/ml



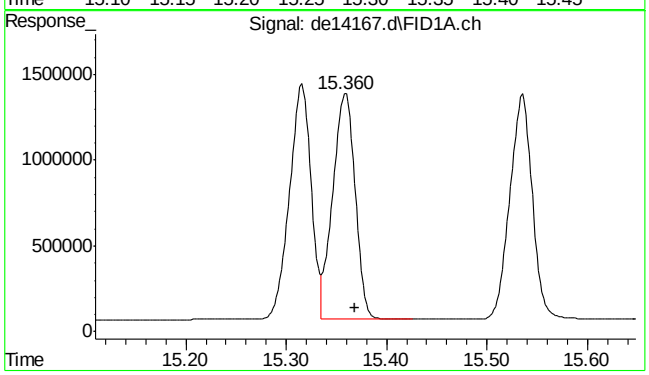
#18 benzo(a)pyrene

R.T.: 14.177 min
Delta R.T.: -0.007 min
Response: 2062818
Conc: 22.32 µg/ml



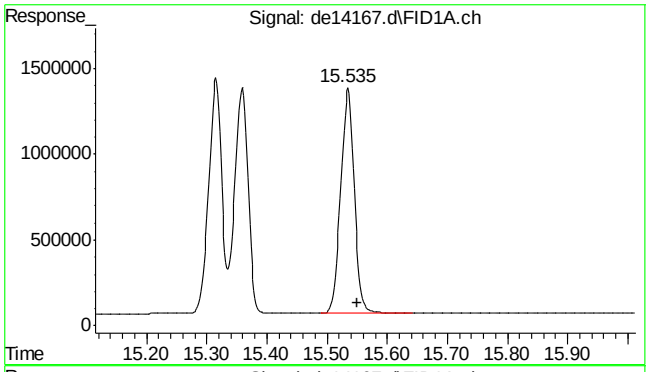
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.315 min
Delta R.T.: -0.012 min
Response: 2071276
Conc: 21.88 µg/ml



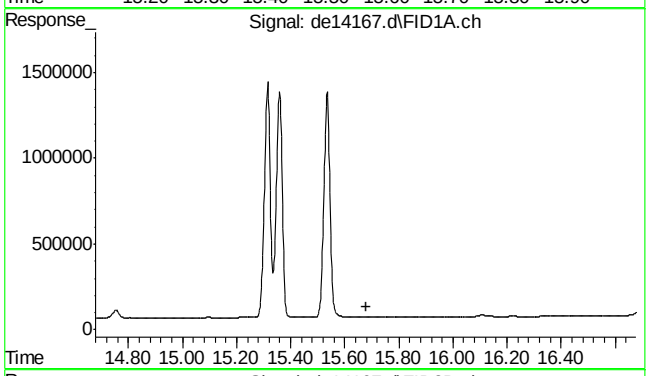
#20 dibenzo(ah)anthracene

R.T.: 15.360 min
Delta R.T.: -0.008 min
Response: 2023578
Conc: 22.14 µg/ml



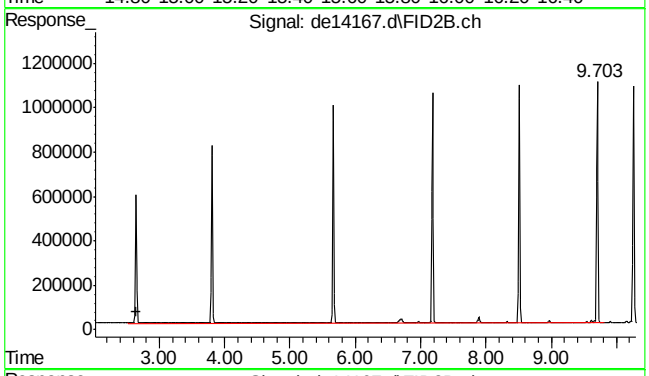
#21 benzo(ghi)perylene

R.T.: 15.535 min
Delta R.T.: -0.015 min
Response: 2053948
Conc: 22.30 µg/ml



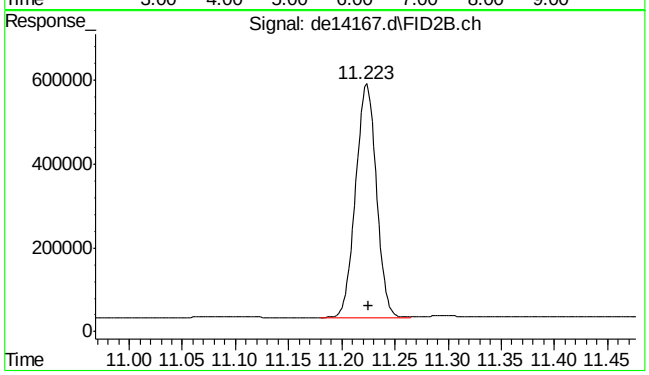
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



#25 c-9

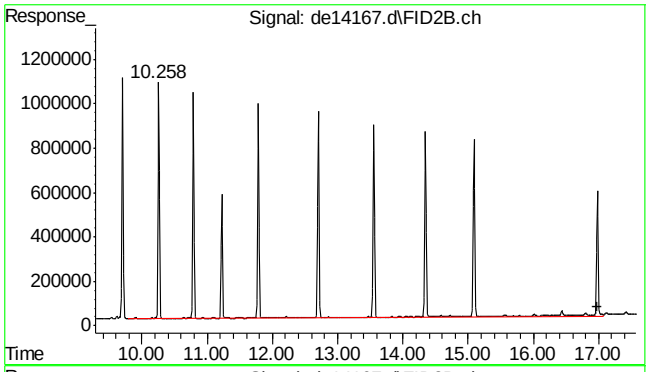
R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 7598396
Conc: 102.86 µg/ml m



#35 1-chlorooctadecane

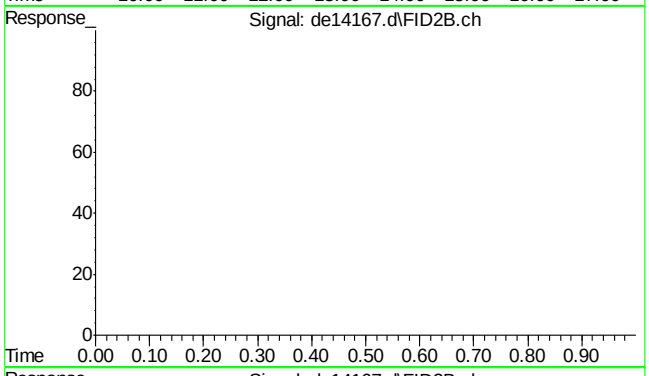
R.T.: 11.223 min
Delta R.T.: -0.002 min
Response: 758460
Conc: 13.41 µg/ml

SGS ACCUTEST MC45897



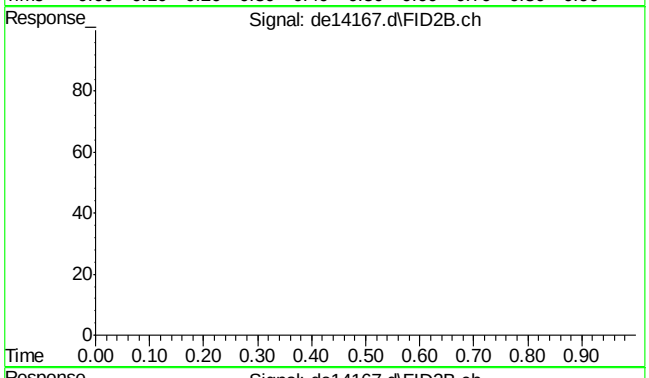
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 11476833
Conc: 171.79 µg/ml m



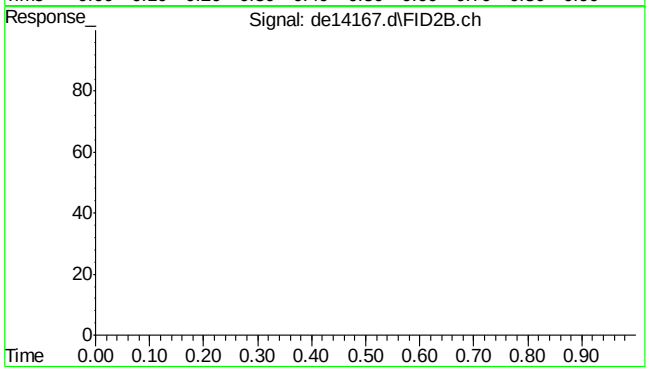
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



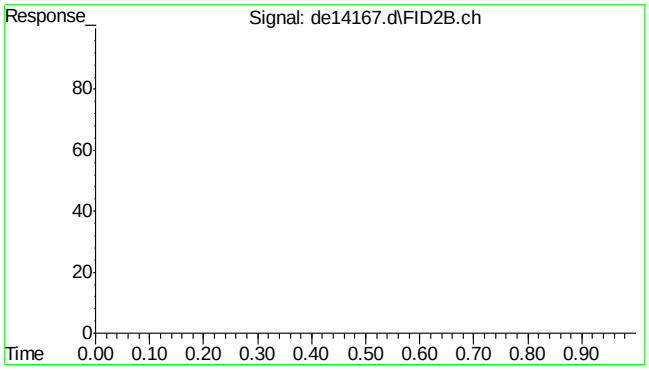
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.4.1

9

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/20/16 15:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14168.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:27 pm
Operator : thomasa
Sample : op47498-msd
Misc : op47498,gde793,810,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:48:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) s	2-fluorobiphenyl	6.605	1596777	17.313 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 86.56%#
6) s	2-bromonaphthalene	7.332	1002653	15.977 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 79.89%#
11) s	o-terphenyl	9.868	1654090	16.149 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 80.75%#
35) s	1-chlorooctadecane	11.223	745879	13.184 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 65.92%#
	Target Compounds			
1) h	c11-c22 Aromatics (Un...	5.203	35143379	357.859 µg/mlm
2)	naphthalene	5.155	1469897	14.251 µg/ml
3)	2-methylnaphthalene	6.053	1521533	14.847 µg/ml
5)	acenaphthylene	7.163	1624377	16.147 µg/ml
7)	acenaphthene	7.405	1813937	17.547 µg/ml
8)	fluorene	8.048	1753725	17.267 µg/ml
9)	phenanthrene	9.228	1793921	17.628 µg/ml
10)	anthracene	9.285	1933801	19.934 µg/ml
12)	fluoranthene	10.730	1982692	19.839 µg/ml
13)	pyrene	10.985	1997000	19.682 µg/ml
14)	benzo(a)anthracene	12.547	1997767	20.665 µg/ml
15)	chrysene	12.593	2029799	20.852 µg/ml
16)	benzo(B)fluoranthene	13.843	2106997	21.282 µg/mlm
17)	benzo(k)fluoranthene	13.870	2045673	21.647 µg/mlm
18)	benzo(a)pyrene	14.177	2001303	21.651 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.313	2033801	21.486 µg/ml
20)	dibenzo(ah)anthracene	15.358	1984139	21.709 µg/ml
21)	benzo(ghi)perylene	15.535	2034532	22.085 µg/ml
25) h	c-9	2.647	7899528	106.935 µg/mlm
41) h	c-36	16.983	11708812	175.265 µg/mlm

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

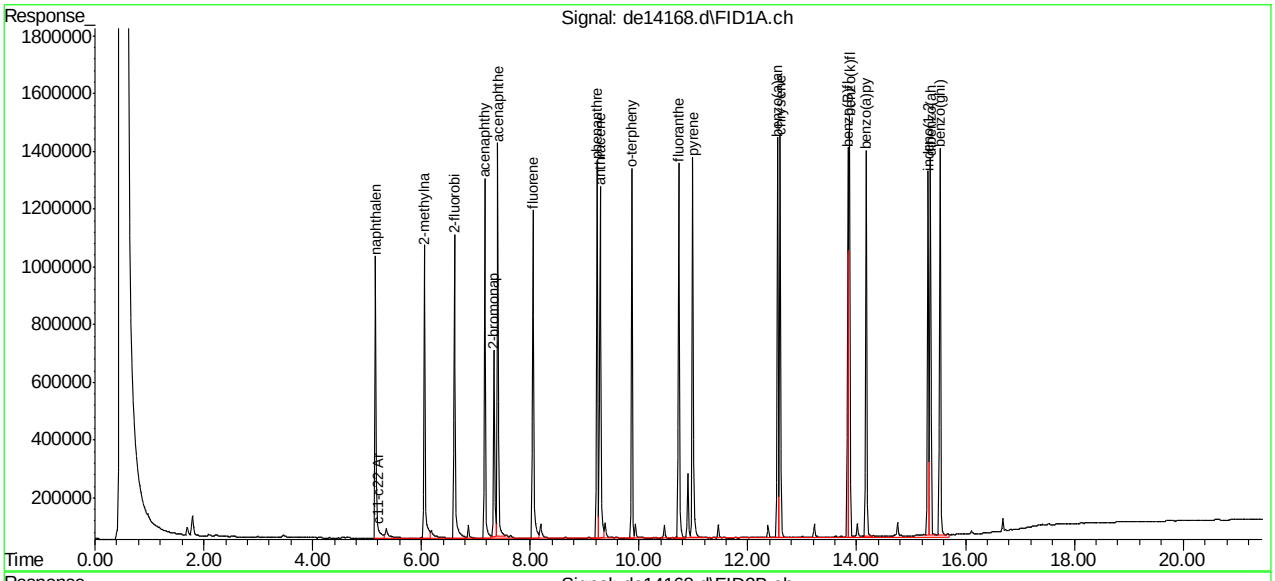
9.4.2
9

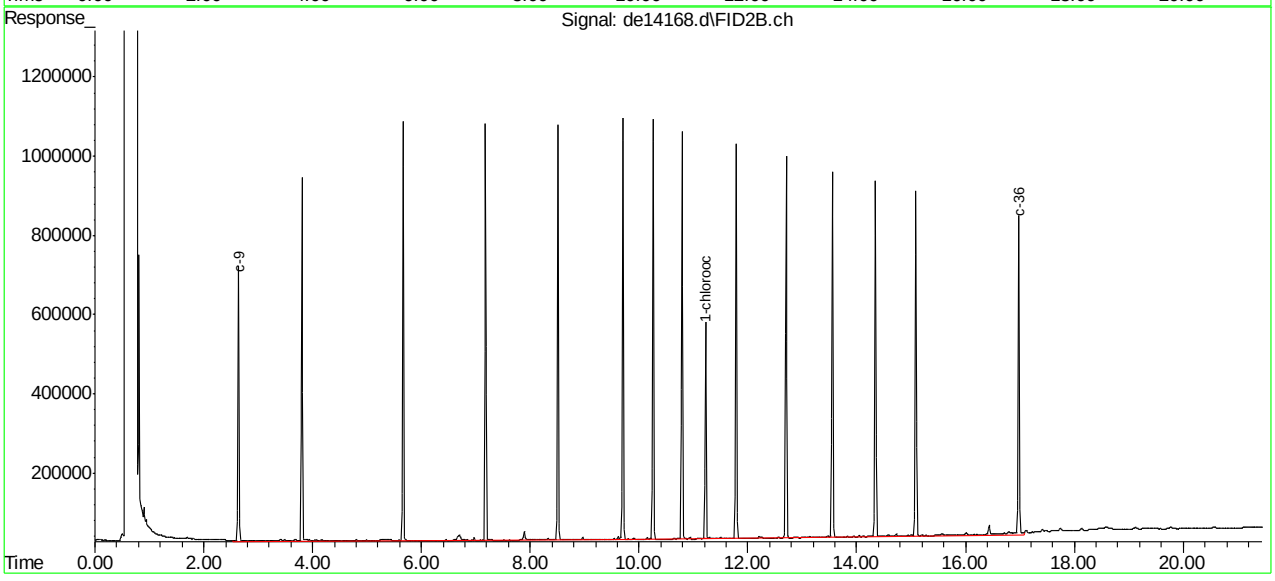
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14168.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:27 pm
Operator : thomasa
Sample : op47498-msd
Misc : op47498,gde793,810,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:48:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

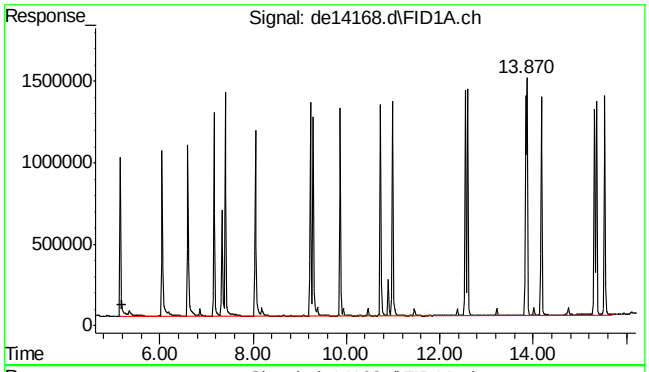
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





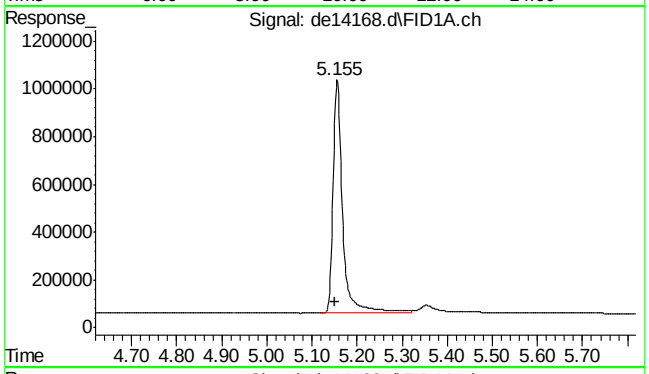
EPH160519W.M Fri May 20 14:46:16 2016 Page: 2

SGS ACCUTEST MC45897



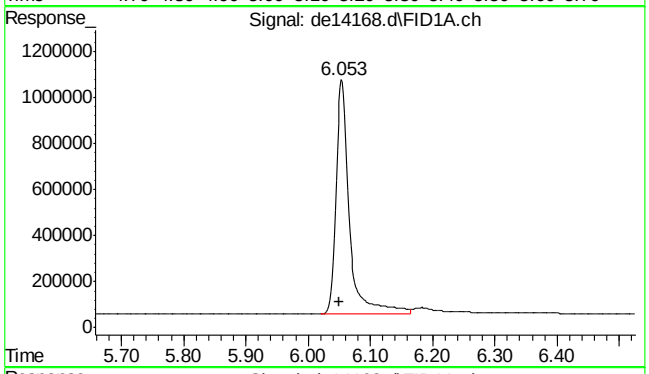
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 35143379
Conc: 357.86 µg/ml m



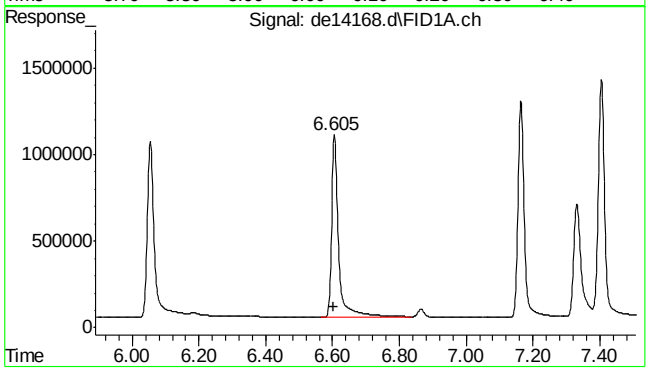
#2 naphthalene

R.T.: 5.155 min
Delta R.T.: 0.005 min
Response: 1469897
Conc: 14.25 µg/ml



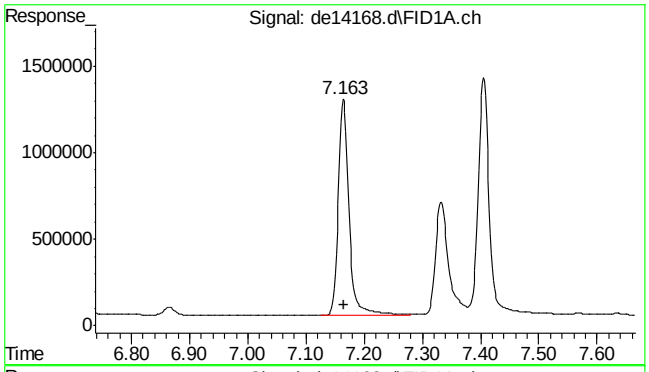
#3 2-methylnaphthalene

R.T.: 6.053 min
Delta R.T.: 0.003 min
Response: 1521533
Conc: 14.85 µg/ml



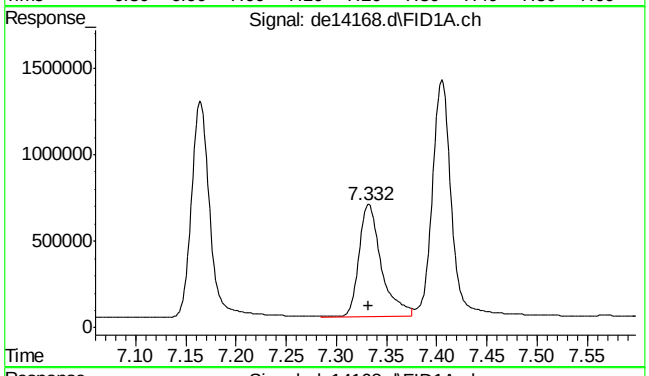
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 1596777
Conc: 17.31 µg/ml



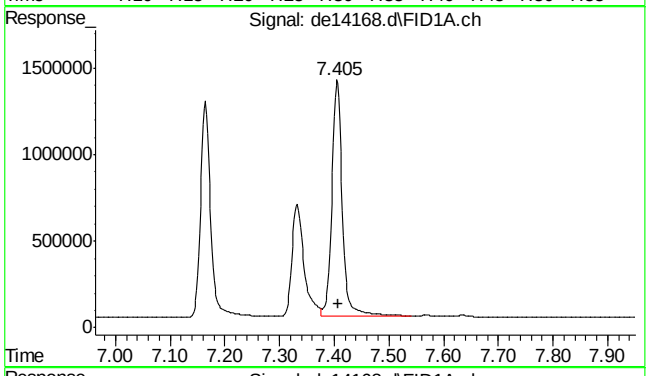
#5 acenaphthylene

R.T.: 7.163 min
Delta R.T.: -0.002 min
Response: 1624377
Conc: 16.15 µg/ml



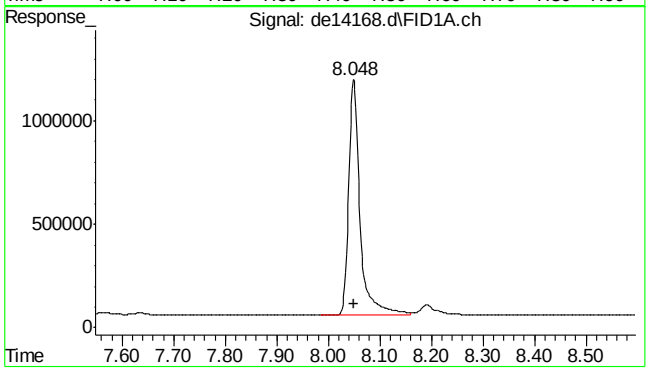
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 1002653
Conc: 15.98 µg/ml



#7 acenaphthene

R.T.: 7.405 min
Delta R.T.: -0.002 min
Response: 1813937
Conc: 17.55 µg/ml



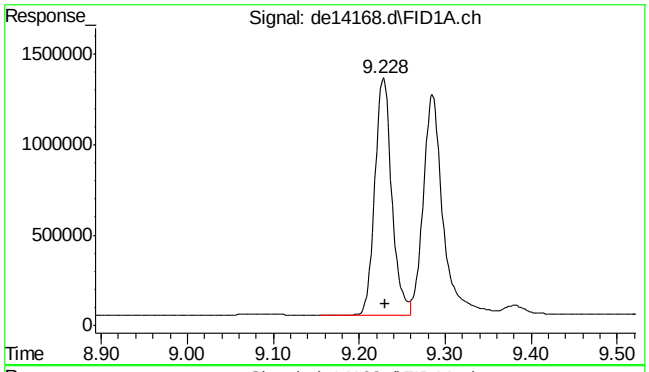
#8 fluorene

R.T.: 8.048 min
Delta R.T.: -0.002 min
Response: 1753725
Conc: 17.27 µg/ml

9.4.2

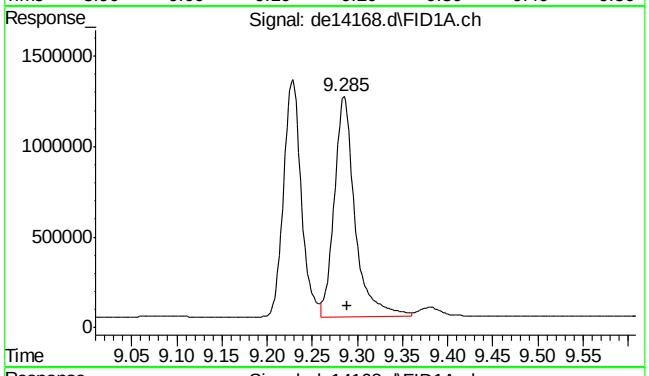
9

SGS ACCUTEST MC45897



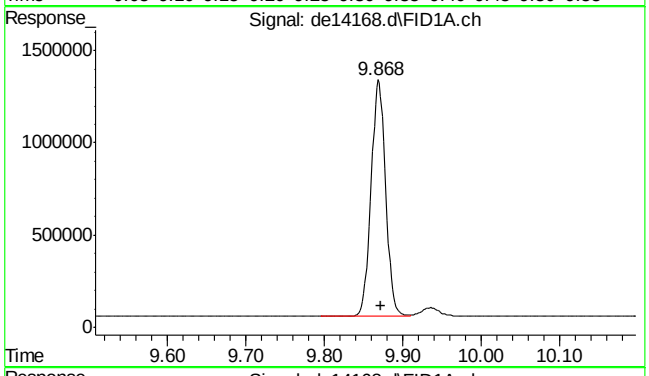
#9 phenanthrene

R.T.: 9.228 min
Delta R.T.: -0.002 min
Response: 1793921
Conc: 17.63 µg/ml



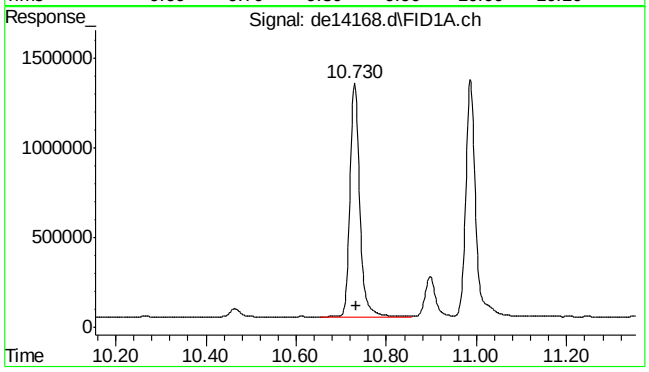
#10 anthracene

R.T.: 9.285 min
Delta R.T.: -0.003 min
Response: 1933801
Conc: 19.93 µg/ml



#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: -0.003 min
Response: 1654090
Conc: 16.15 µg/ml



#12 fluoranthene

R.T.: 10.730 min
Delta R.T.: -0.003 min
Response: 1982692
Conc: 19.84 µg/ml

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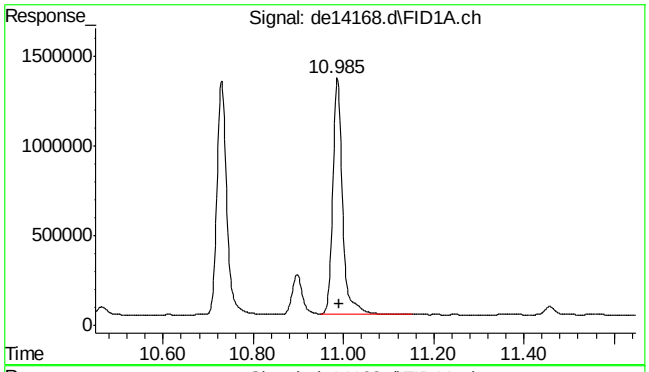
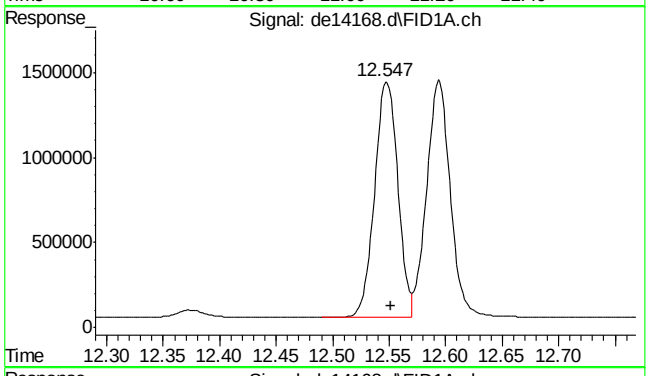


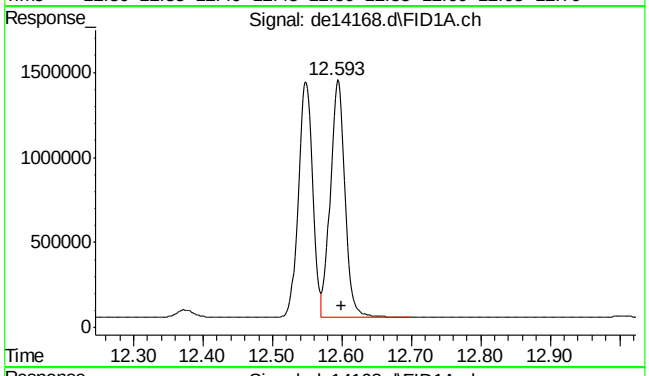
#13 pyrene

R.T.: 10.985 min
Delta R.T.: -0.005 min
Response: 1997000
Conc: 19.68 µg/ml



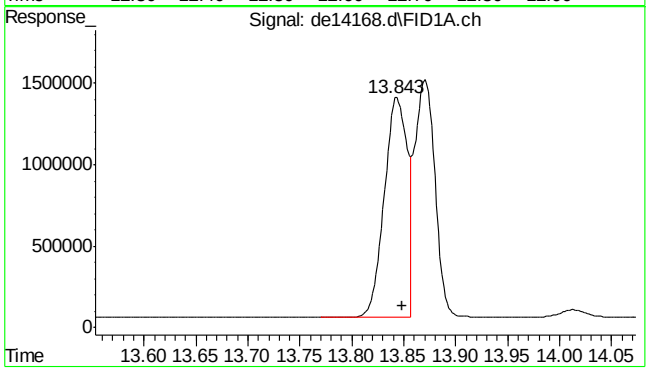
#14 benzo(a)anthracene

R.T.: 12.547 min
Delta R.T.: -0.005 min
Response: 1997767
Conc: 20.66 µg/ml



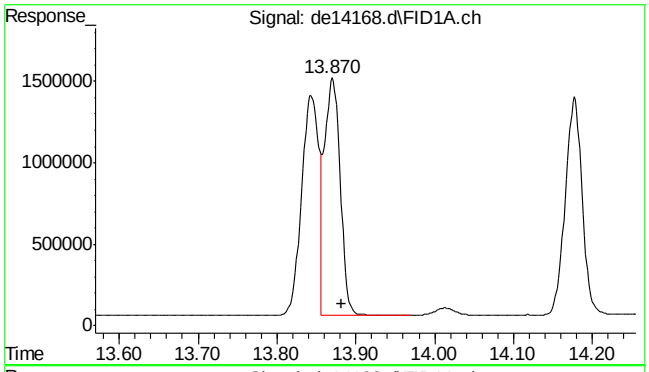
#15 chrysene

R.T.: 12.593 min
Delta R.T.: -0.007 min
Response: 2029799
Conc: 20.85 µg/ml



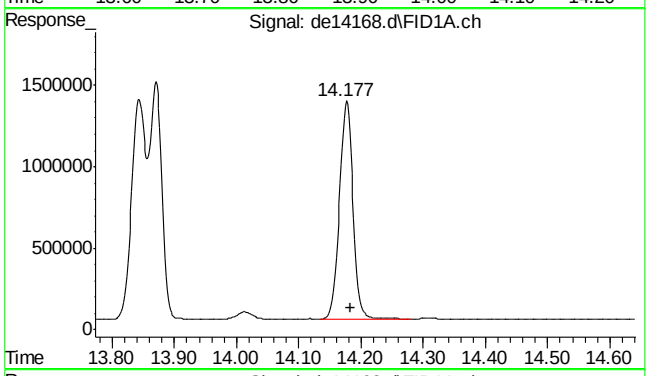
#16 benzo(B)fluoranthene

R.T.: 13.843 min
Delta R.T.: -0.005 min
Response: 2106997
Conc: 21.28 µg/ml m



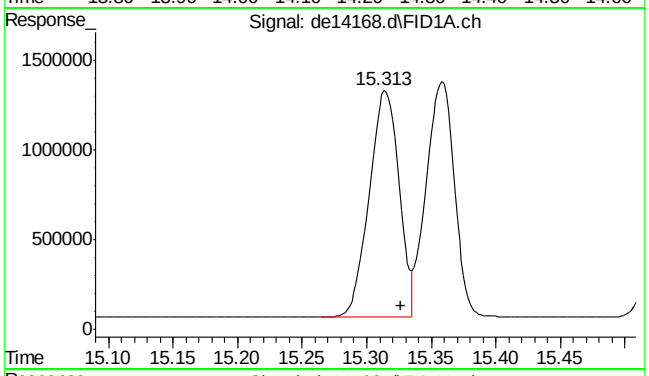
#17 benzo(k)fluoranthene

R.T.: 13.870 min
Delta R.T.: -0.012 min
Response: 2045673
Conc: 21.65 µg/ml m



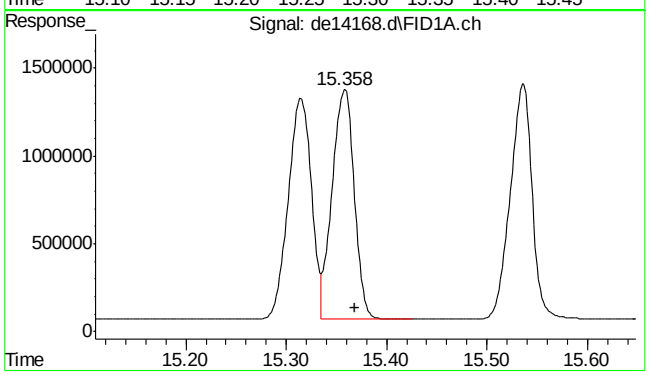
#18 benzo(a)pyrene

R.T.: 14.177 min
Delta R.T.: -0.007 min
Response: 2001303
Conc: 21.65 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.313 min
Delta R.T.: -0.013 min
Response: 2033801
Conc: 21.49 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.358 min
Delta R.T.: -0.010 min
Response: 1984139
Conc: 21.71 µg/ml

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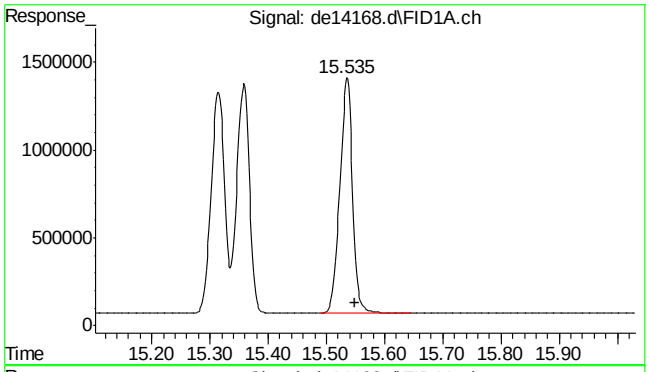
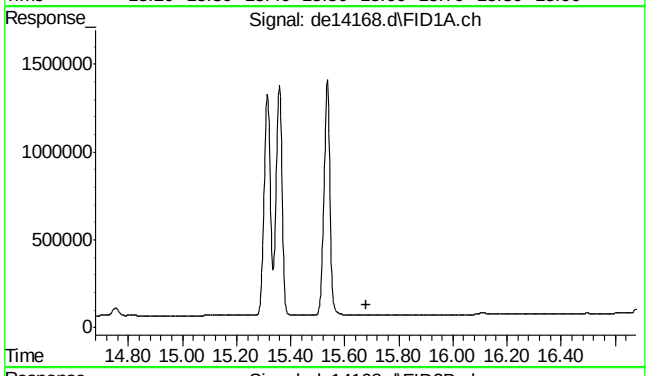


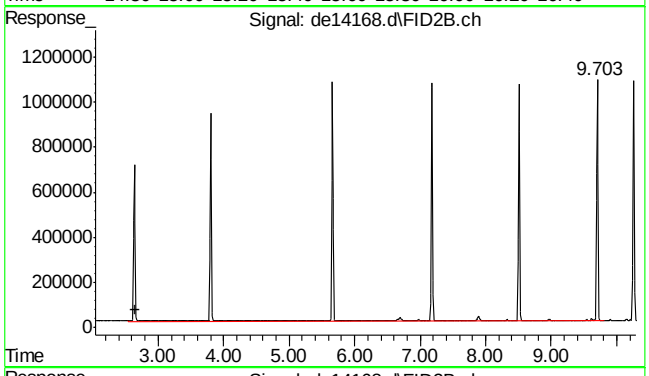
#21 benzo(ghi)perylene

R.T.: 15.535 min
Delta R.T.: -0.015 min
Response: 2034532
Conc: 22.08 µg/ml



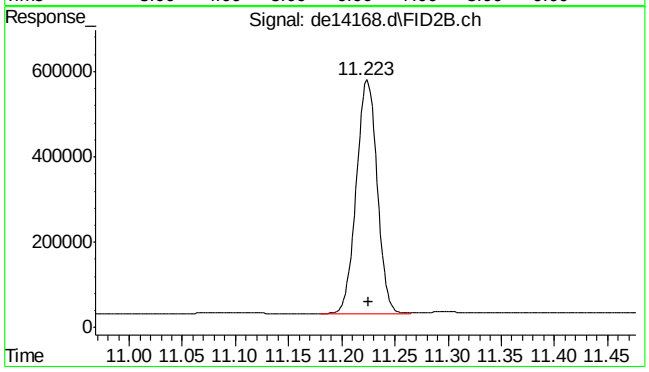
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



#25 c-9

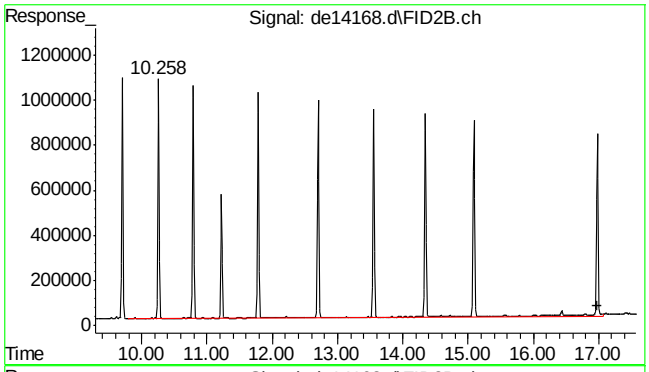
R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 7899528
Conc: 106.94 µg/ml m



#35 1-chlorooctadecane

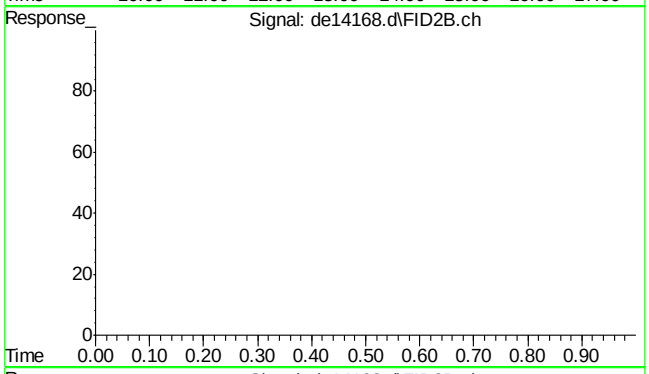
R.T.: 11.223 min
Delta R.T.: -0.002 min
Response: 745879
Conc: 13.18 µg/ml

SGS ACCUTEST MC45897



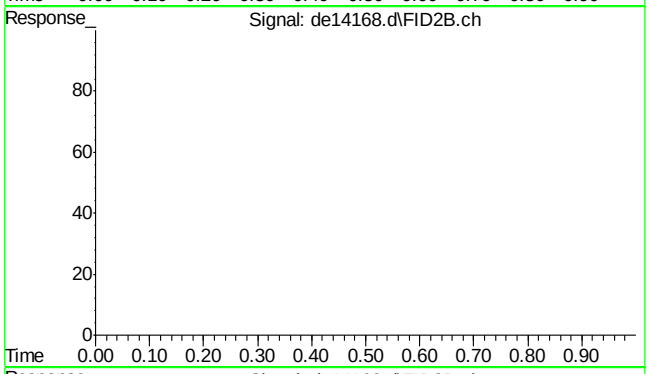
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 11708812
Conc: 175.26 µg/ml m



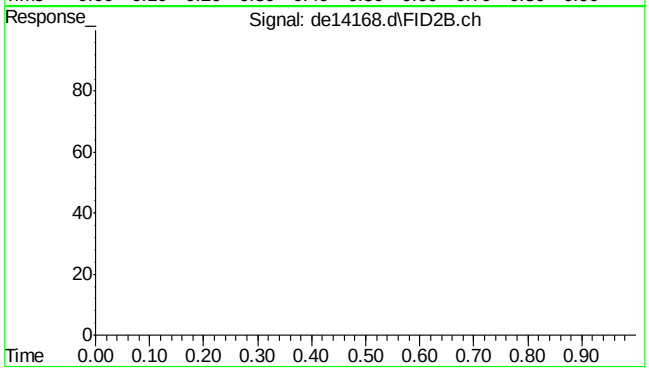
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



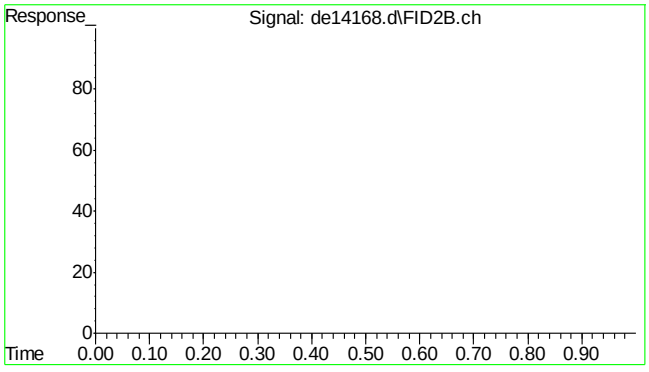
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

9.4.2

9

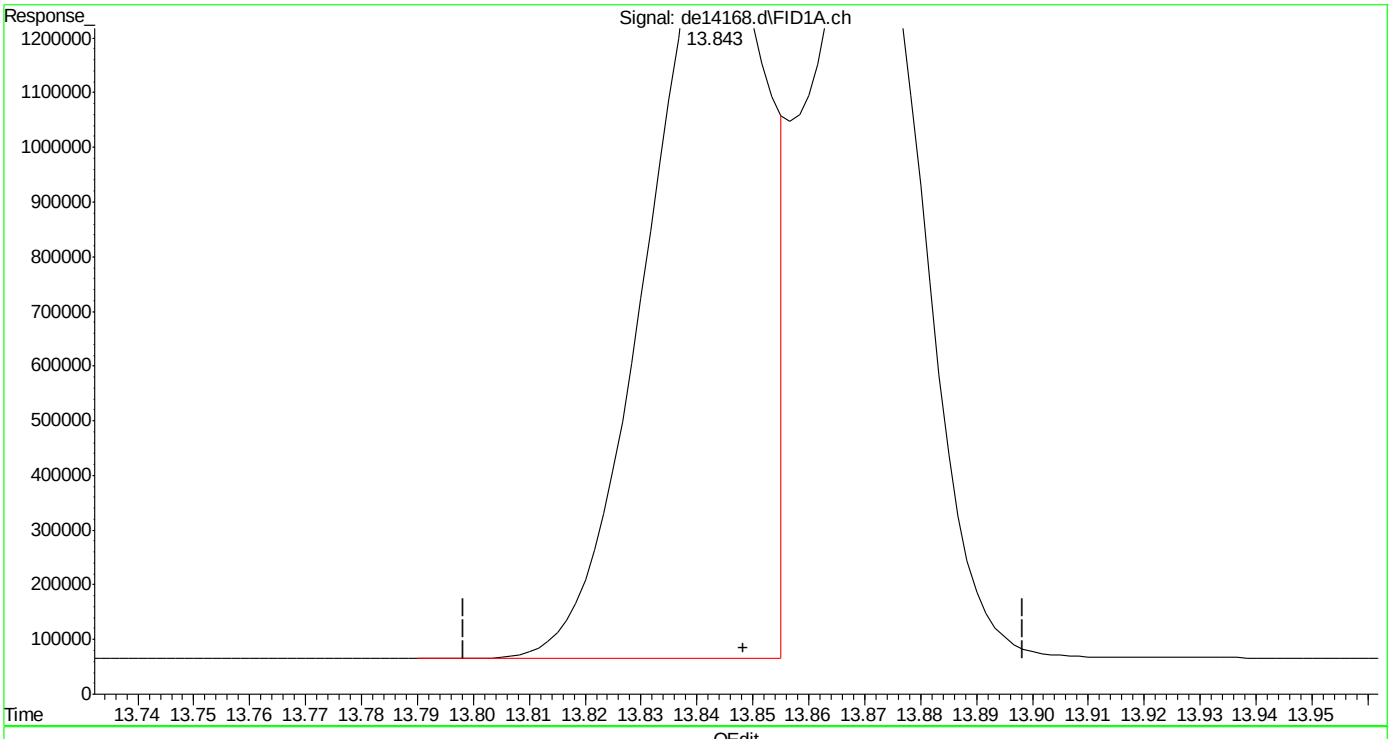
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14168.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:27 pm
Operator : thomasa
Sample : op47498-msd
Misc : op47498,gde793,810,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 07:24:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
13.843min 20.265 µg/ml
response 2006331

(+) = Expected Retention Time

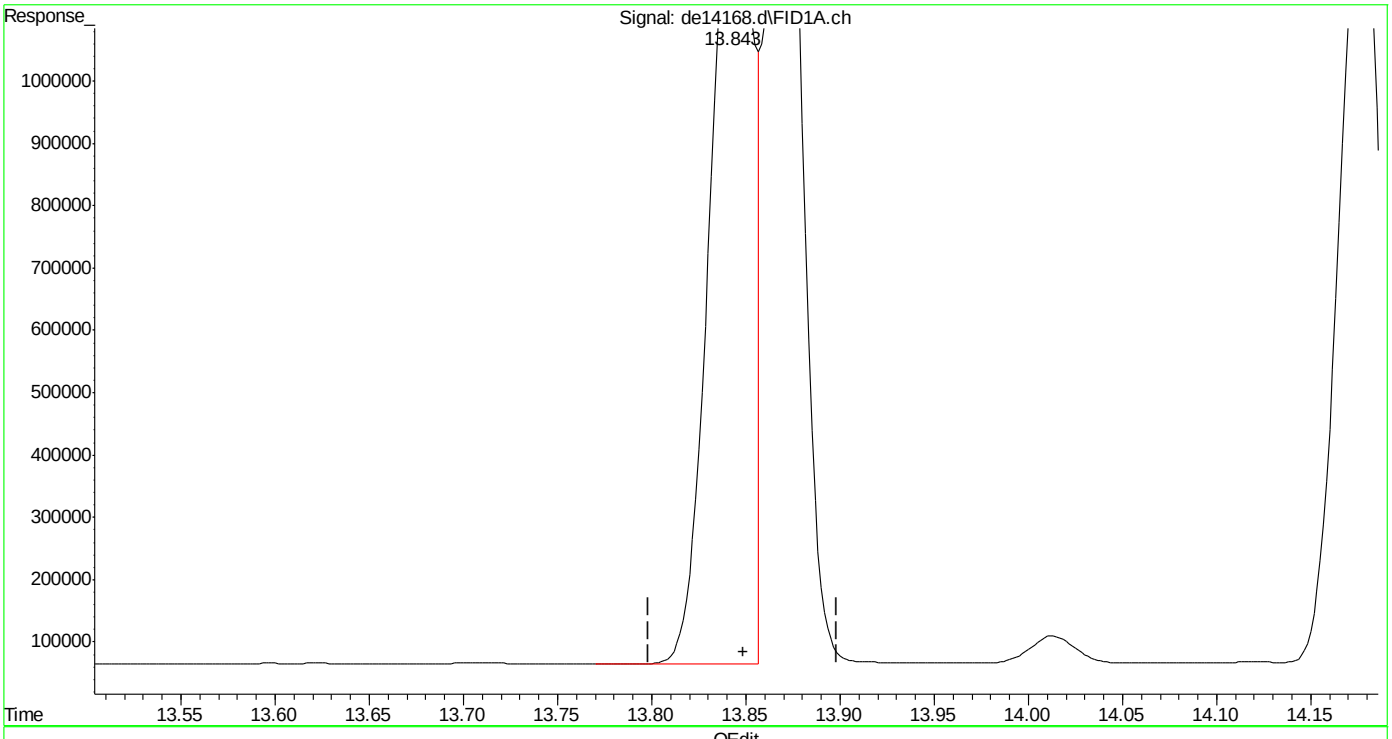
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14168.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:27 pm
Operator : thomasa
Sample : op47498-msd
Misc : op47498,gde793,810,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 07:24:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
13.843min 21.282 µg/ml m
response 2106997

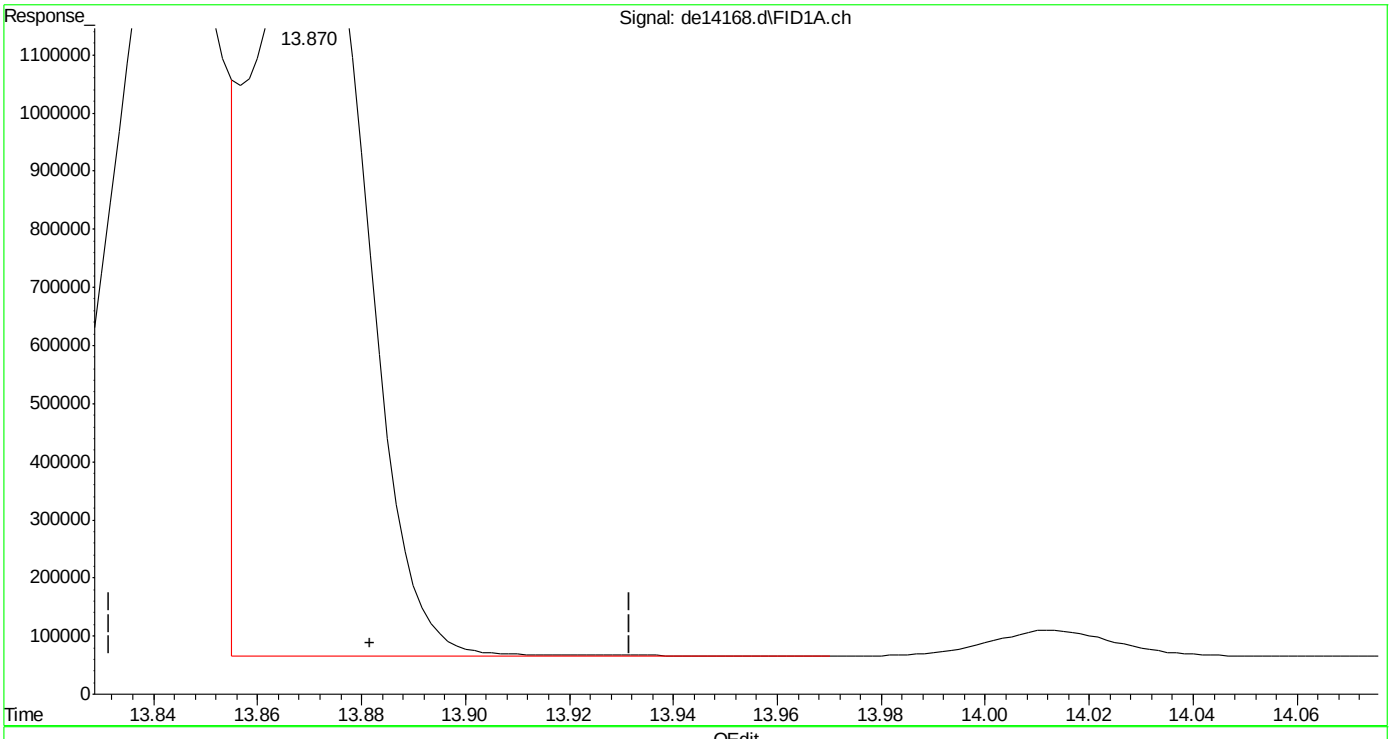
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14168.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:27 pm
Operator : thomasa
Sample : op47498-msd
Misc : op47498,gde793,810,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 07:24:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
13.870min 21.618 µg/ml
response 2043000

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:47:09 2016

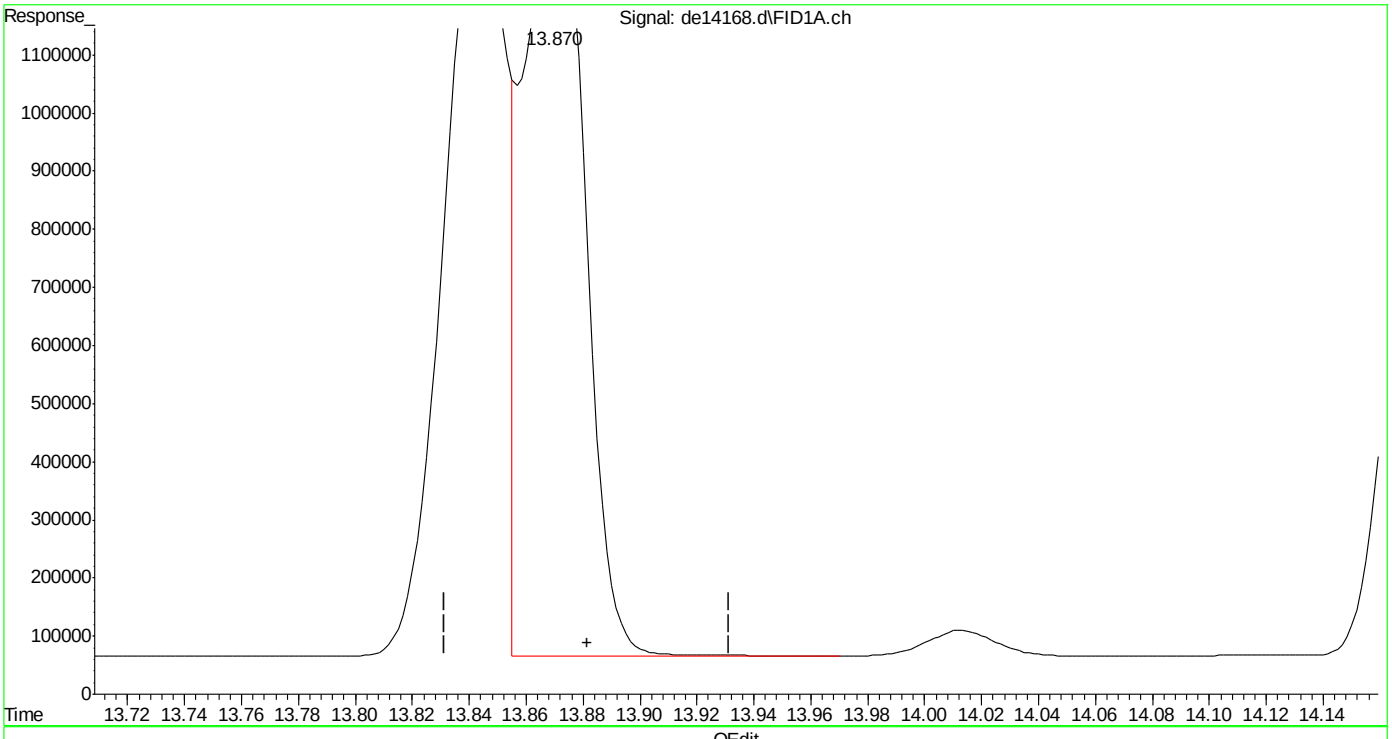
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14168.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 4:27 pm
Operator : thomasa
Sample : op47498-msd
Misc : op47498,gde793,810,,,2,,s
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 07:24:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
13.870min 21.647 µg/ml m
response 2045673

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:47:19 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	93024	0.934 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 4.67%#		
6) s 2-bromonaphthalene	7.530	61936	0.915 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 4.58%#		
11) s o-terphenyl	10.077	103028	0.955 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 4.78%#		
35) s 1-chlorooctadecane	11.247	61176	1.132 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 5.66%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	2460719	2.656 µg/mlm
2) naphthalene	5.353	100885	0.898 µg/ml
3) 2-methylnaphthalene	6.250	102950	0.929 µg/ml
5) acenaphthylene	7.365	99947	0.913 µg/ml
7) acenaphthene	7.607	101818	0.916 µg/ml
8) fluorene	8.250	100695	0.925 µg/ml
9) phenanthrene	9.435	101800	0.942 µg/ml
10) anthracene	9.490	96242	0.961 µg/ml
12) fluoranthene	10.940	103521	0.991 µg/ml
13) pyrene	11.198	105548	1.007 µg/ml
14) benzo(a)anthracene	12.758	100487	1.022 µg/mlm
15) chrysene	12.805	100279	1.010 µg/mlm
16) benzo(B)fluoranthene	14.053	100827	0.988 µg/mlm
17) benzo(k)fluoranthene	14.078	95833	0.978 µg/mlm
18) benzo(a)pyrene	14.388	94743	0.968 µg/ml
19) indeno(1,2,3-cd)pyrene	15.522	94483	0.967 µg/ml
20) dibenzo(ah)anthracene	15.568	92785	0.988 µg/ml
21) benzo(ghi)perylene	15.740f	93453	0.991 µg/ml
25) h c-9	2.680	76082	1.052 µg/mlm
26) h c-10	3.833	77300	1.065 µg/mlm
27) naphthalene #2	5.510	81982	1.068 µg/ml
28) c-12	5.685	76748	1.061 µg/ml
29) 2-methylnaphthalene #2	6.403	85696	1.079 µg/ml
30) c-14	7.202	77909	1.081 µg/ml
31) c-16	8.530	78733	1.103 µg/ml
32) c-18	9.725	77956	1.097 µg/ml
33) c-19	10.282	78108	1.157 µg/ml
34) c-20	10.812	75638	1.131 µg/ml
36) c-22	11.807	73192	1.099 µg/ml
37) c-24	12.725	69851	1.086 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.578	72850	1.099	µg/ml
39)		c-28	14.370	69399	1.064	µg/ml
40)	h	c-30	15.122	74594	1.144	µg/mlm
41)	h	c-36	17.010	60516	0.967	µg/mlm

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

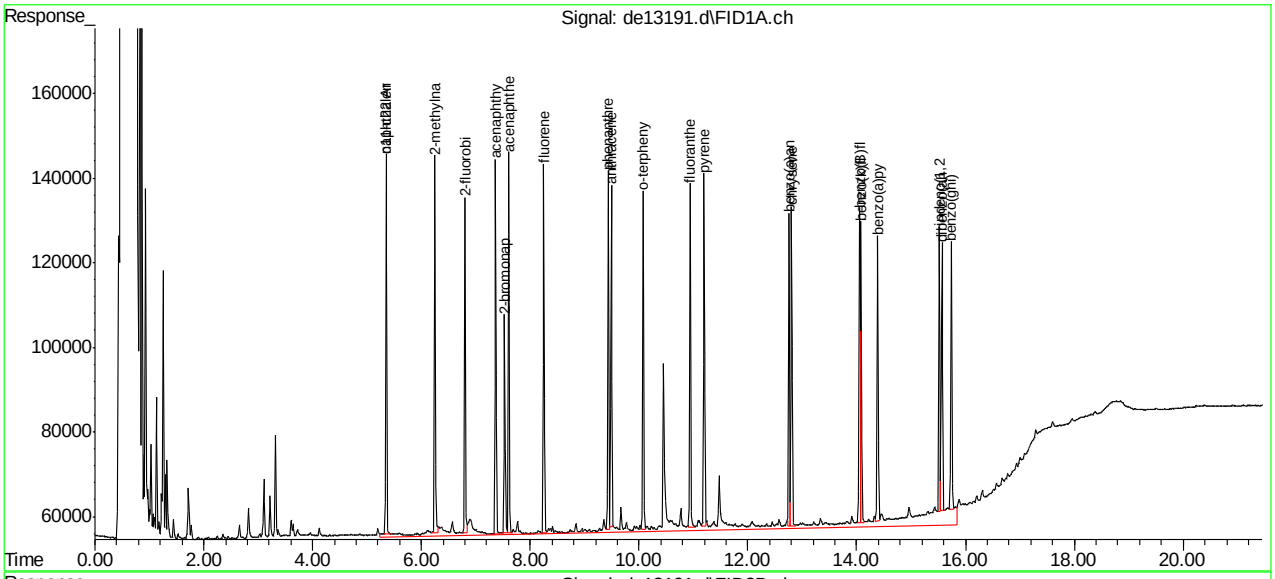
SGS ACCUTEST MC45897

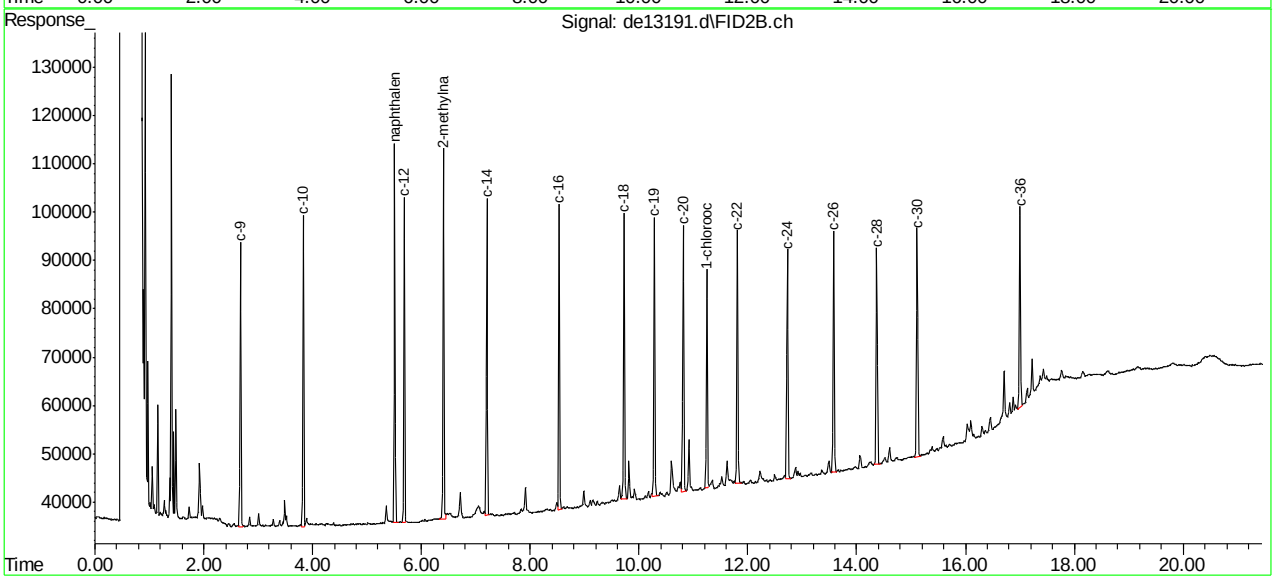
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

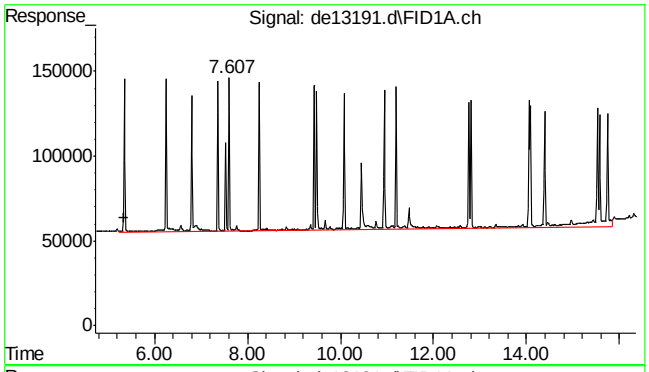
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



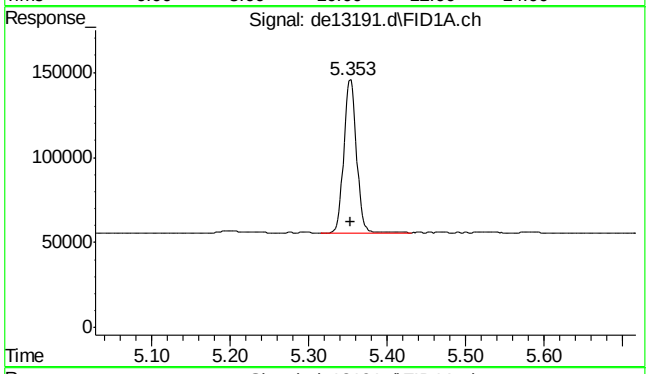


SGS ACCUTEST MC45897



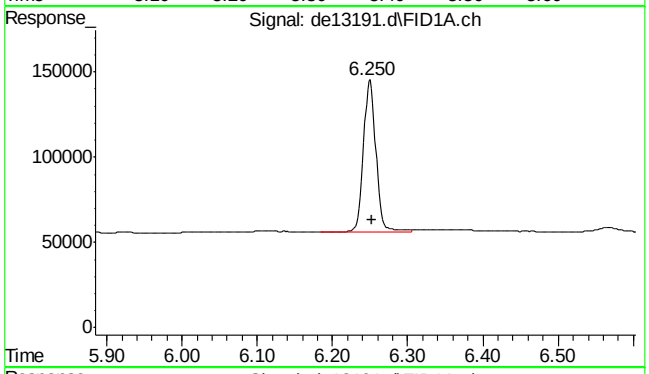
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2460719
Conc: 2.66 µg/ml m



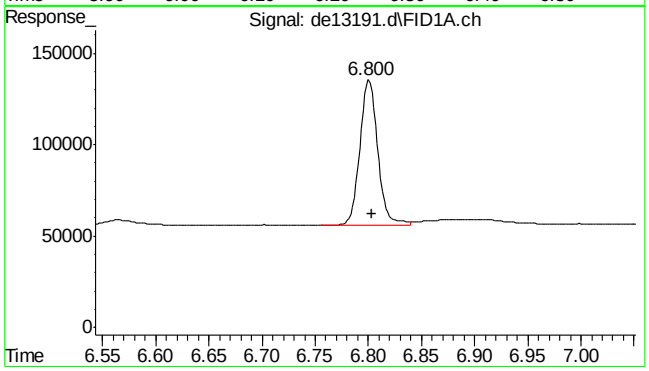
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 100885
Conc: 0.90 µg/ml



#3 2-methylnaphthalene

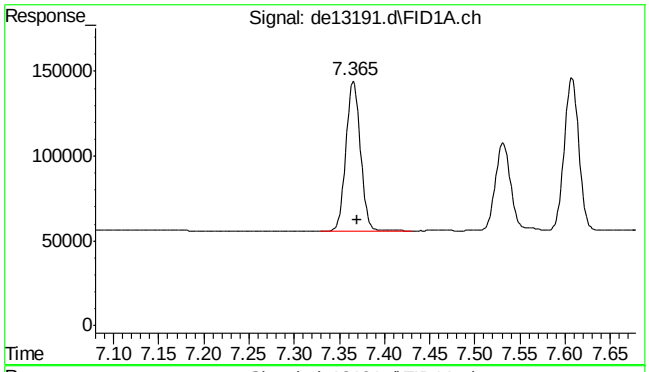
R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 102950
Conc: 0.93 µg/ml



#4 2-fluorobiphenyl

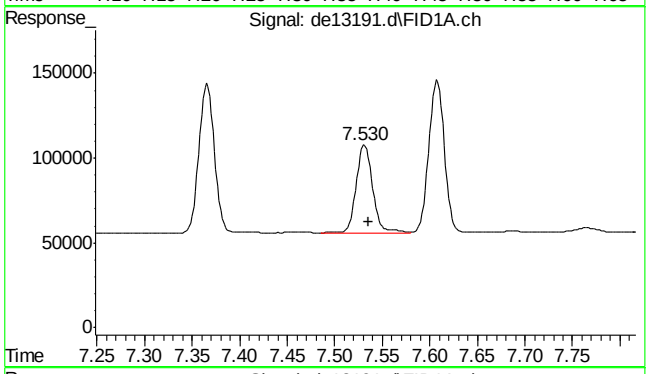
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 93024
Conc: 0.93 µg/ml

SGS ACCUTEST MC45897



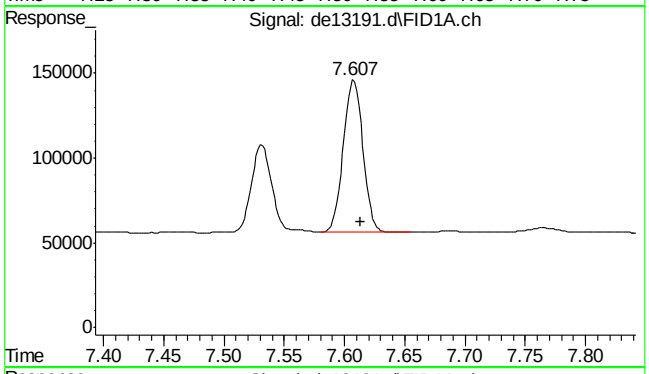
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 99947
Conc: 0.91 µg/ml



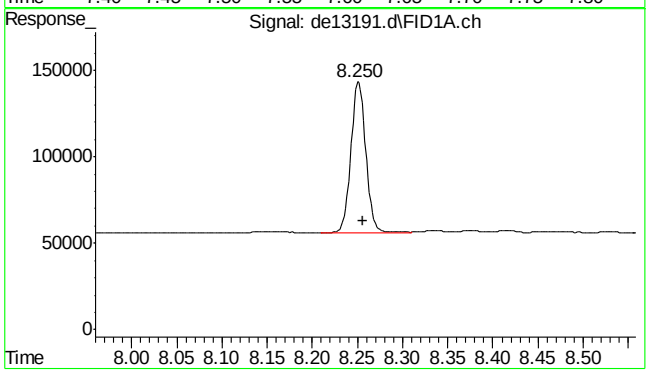
#6 2-bromonaphthalene

R.T.: 7.530 min
Delta R.T.: -0.005 min
Response: 61936
Conc: 0.91 µg/ml



#7 acenaphthene

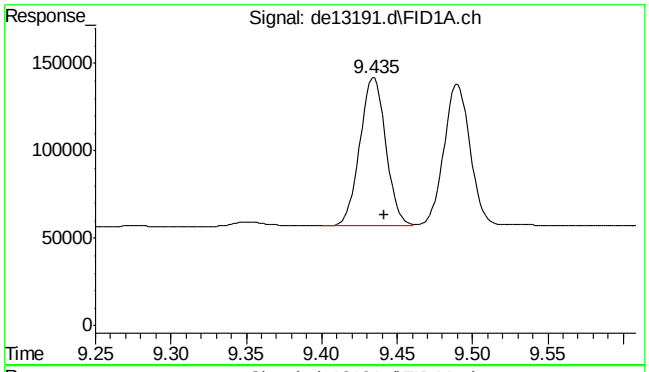
R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 101818
Conc: 0.92 µg/ml



#8 fluorene

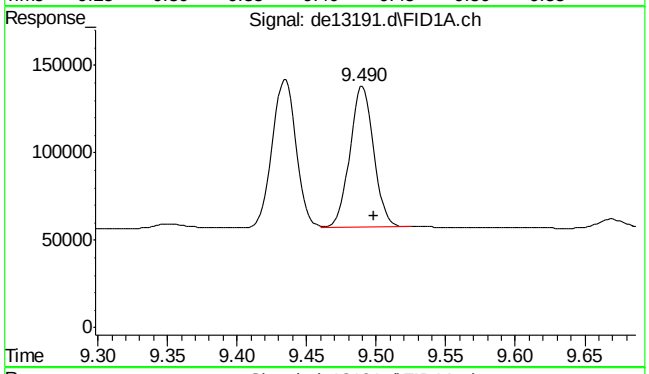
R.T.: 8.250 min
Delta R.T.: -0.007 min
Response: 100695
Conc: 0.92 µg/ml

SGS ACCUTEST MC45897



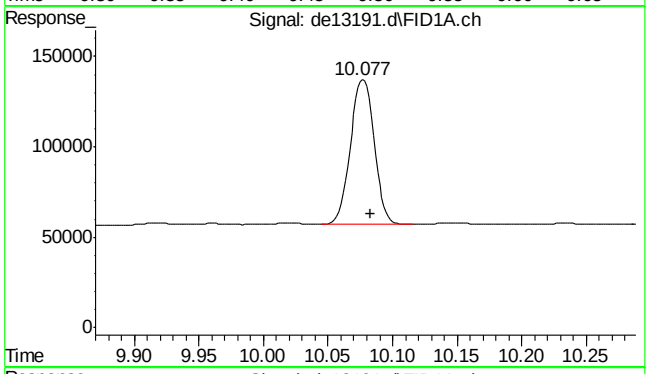
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 101800
Conc: 0.94 µg/ml



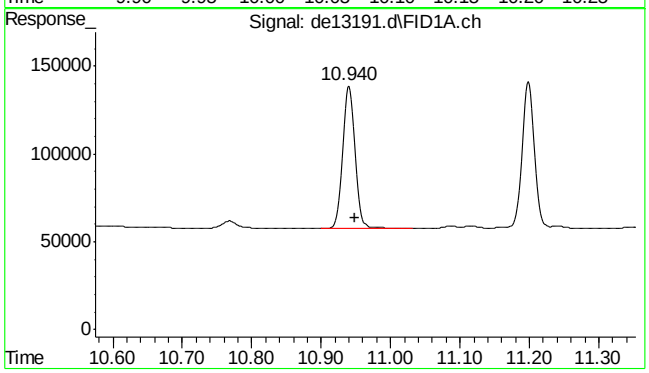
#10 anthracene

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 96242
Conc: 0.96 µg/ml



#11 o-terphenyl

R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 103028
Conc: 0.95 µg/ml



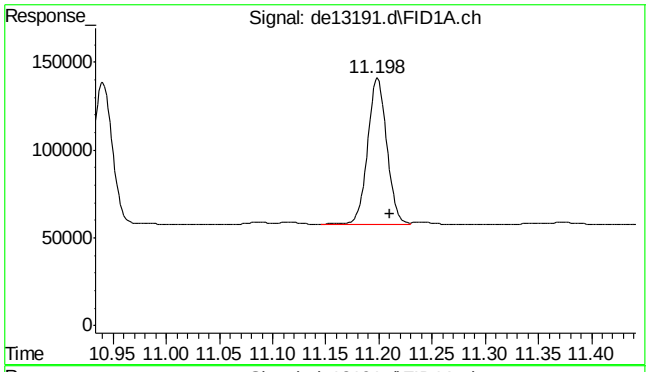
#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 103521
Conc: 0.99 µg/ml

9.5.1

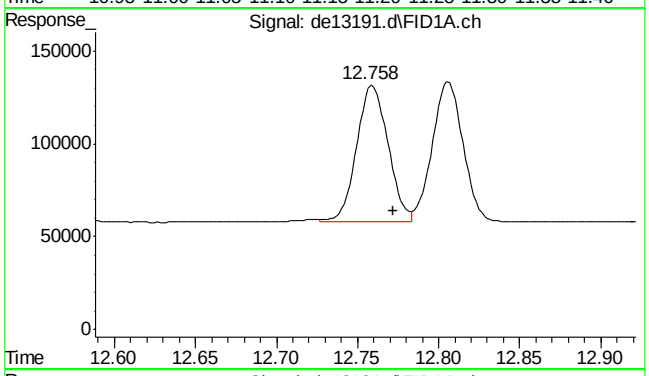
9

SGS ACCUTEST MC45897



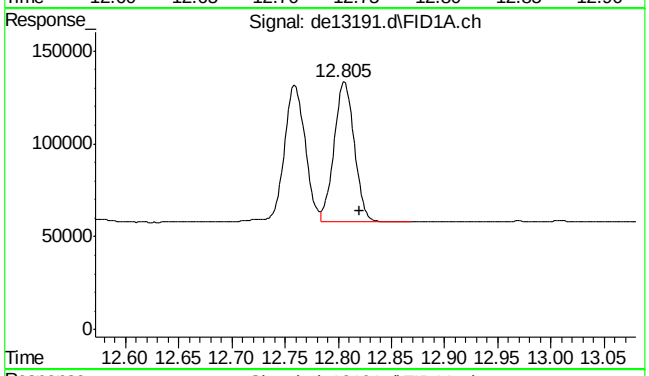
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 105548
Conc: 1.01 µg/ml



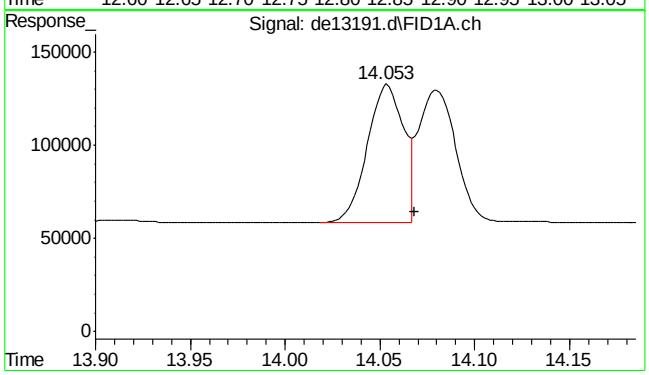
#14 benzo(a)anthracene

R.T.: 12.758 min
Delta R.T.: -0.013 min
Response: 100487
Conc: 1.02 µg/ml m



#15 chrysene

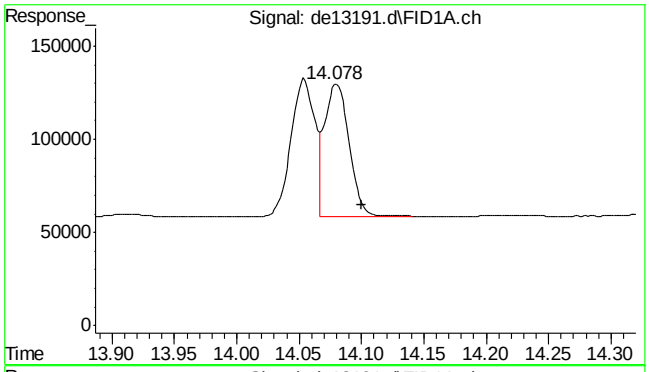
R.T.: 12.805 min
Delta R.T.: -0.015 min
Response: 100279
Conc: 1.01 µg/ml m



#16 benzo(B)fluoranthene

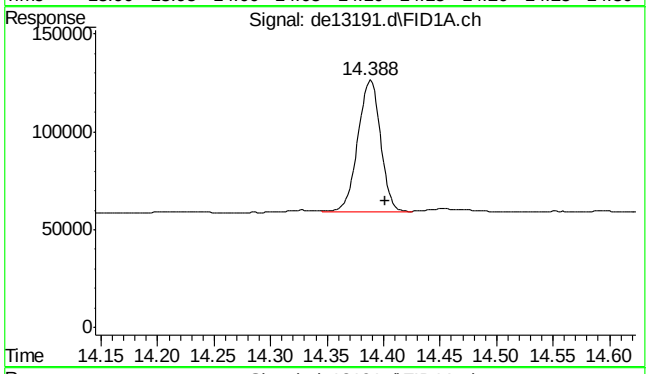
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 100827
Conc: 0.99 µg/ml m

SGS ACCUTEST MC45897



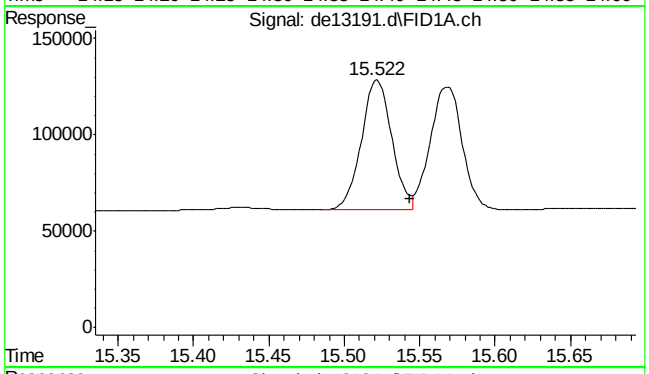
#17 benzo(k)fluoranthene

R.T.: 14.078 min
Delta R.T.: -0.022 min
Response: 95833
Conc: 0.98 µg/ml m



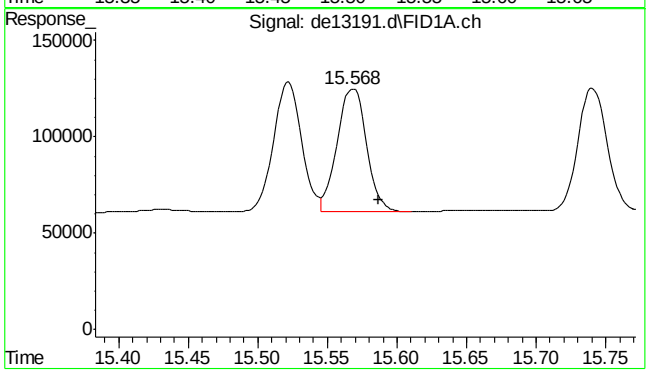
#18 benzo(a)pyrene

R.T.: 14.388 min
Delta R.T.: -0.013 min
Response: 94743
Conc: 0.97 µg/ml



#19 indeno(1,2,3-cd)pyrene

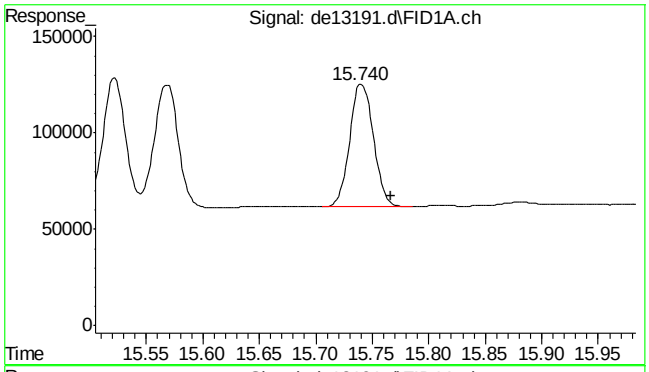
R.T.: 15.522 min
Delta R.T.: -0.022 min
Response: 94483
Conc: 0.97 µg/ml



#20 dibenzo(ah)anthracene

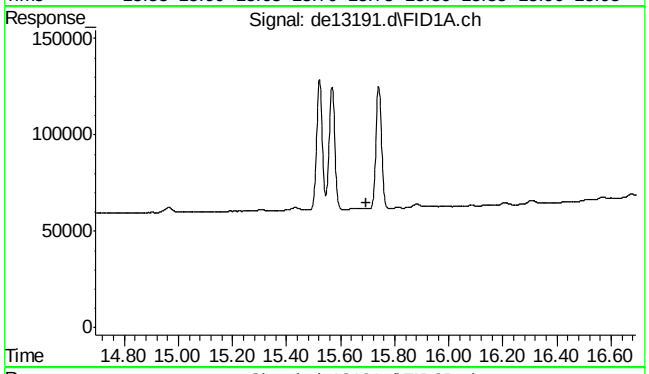
R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 92785
Conc: 0.99 µg/ml

SGS ACCUTEST MC45897



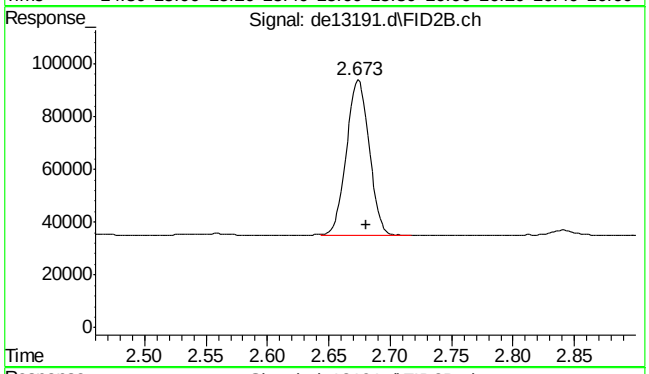
#21 benzo(ghi)perylene

R.T.: 15.740 min
Delta R.T.: -0.027 min
Response: 93453
Conc: 0.99 µg/ml



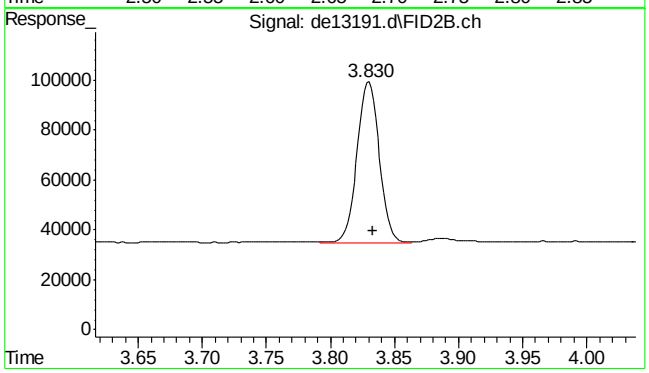
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



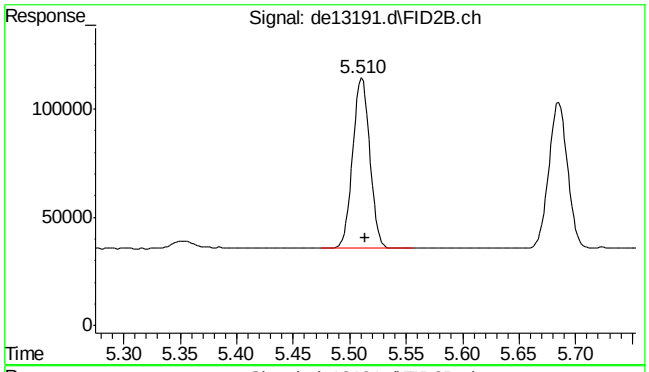
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 76082
Conc: 1.05 µg/ml m



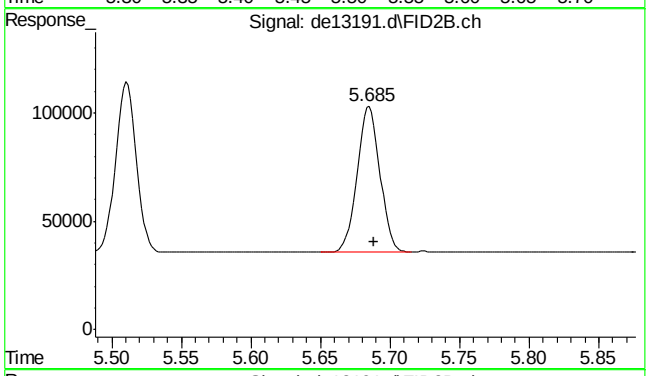
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 77300
Conc: 1.06 µg/ml m



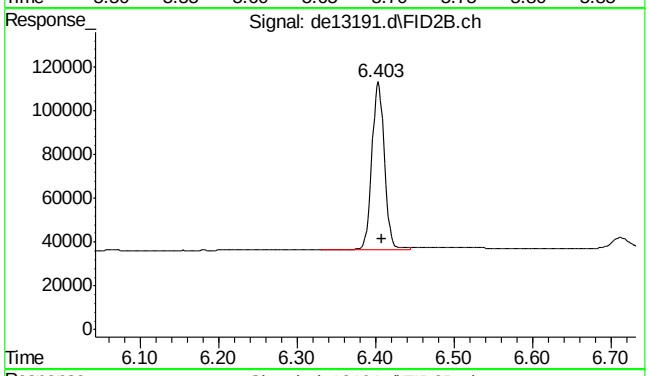
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 81982
Conc: 1.07 µg/ml



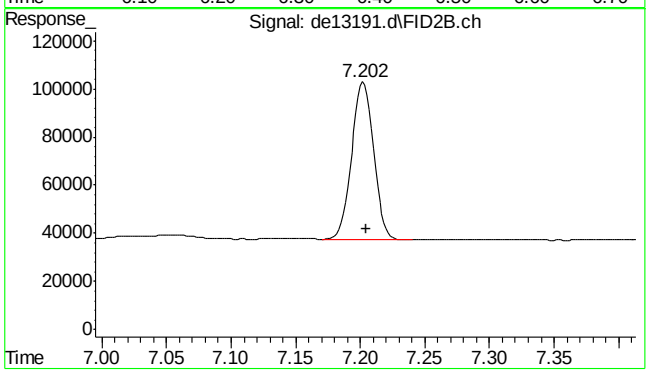
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 76748
Conc: 1.06 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 85696
Conc: 1.08 µg/ml



#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 77909
Conc: 1.08 µg/ml

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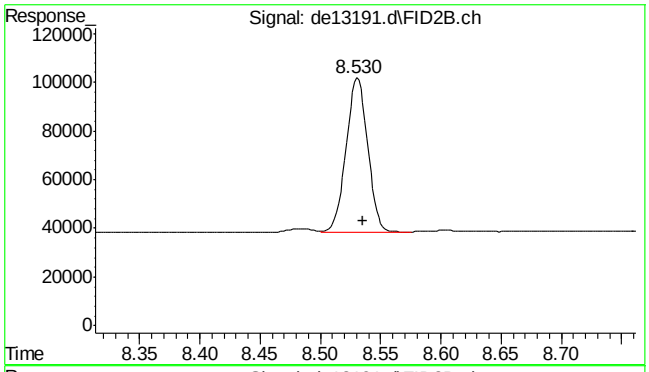
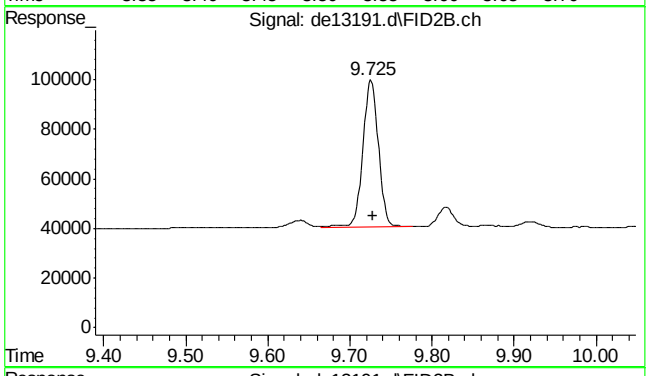


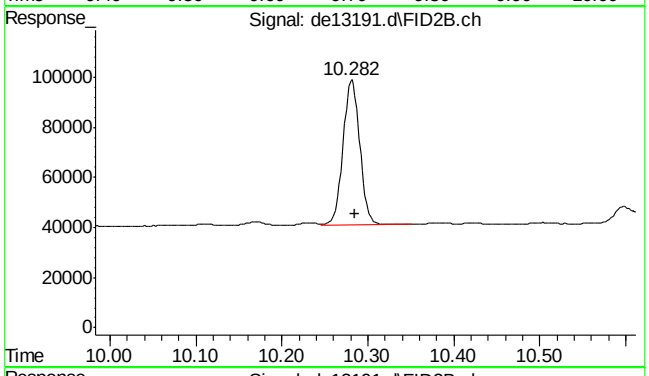
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 78733
Conc: 1.10 µg/ml



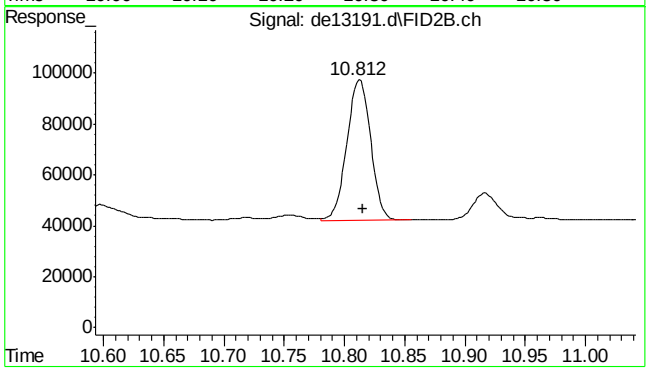
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 77956
Conc: 1.10 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 78108
Conc: 1.16 µg/ml



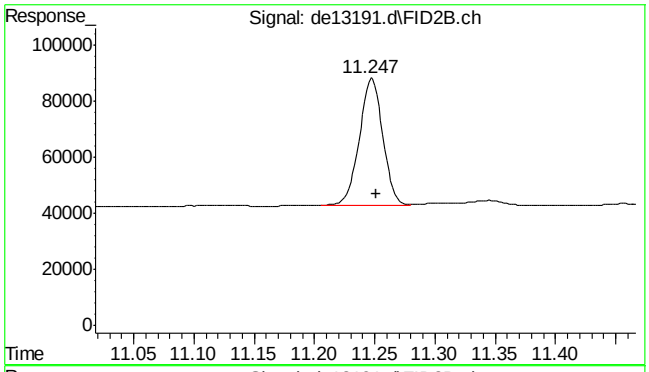
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 75638
Conc: 1.13 µg/ml

9.5.1

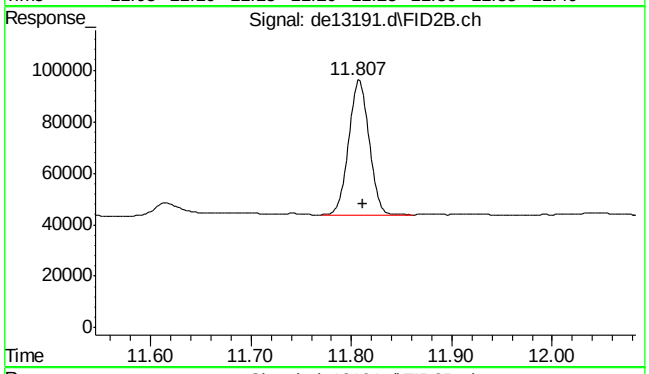
9

SGS ACCUTEST MC45897



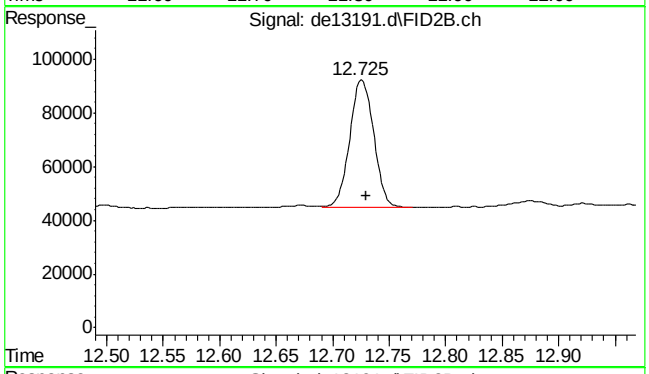
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 61176
Conc: 1.13 µg/ml



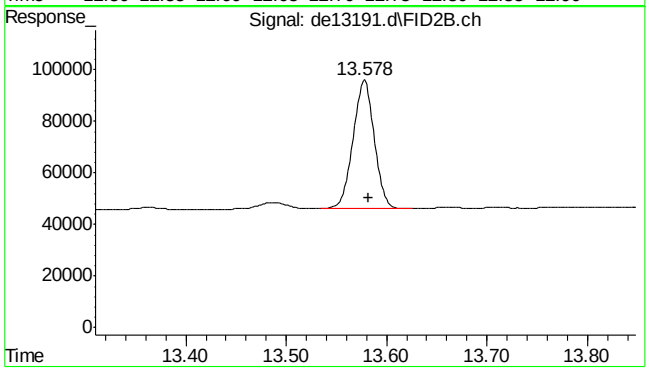
#36 c-22

R.T.: 11.807 min
Delta R.T.: -0.005 min
Response: 73192
Conc: 1.10 µg/ml



#37 c-24

R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 69851
Conc: 1.09 µg/ml



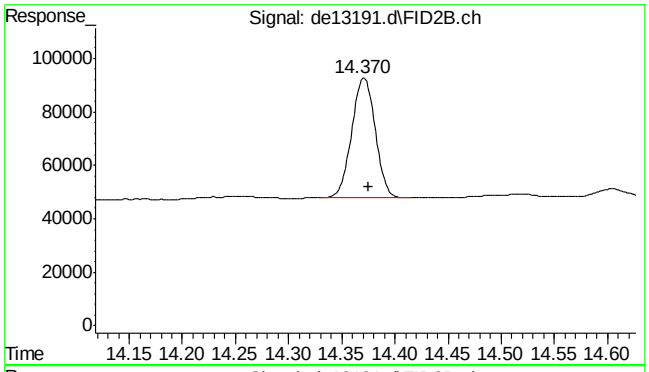
#38 c-26

R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 72850
Conc: 1.10 µg/ml

9.5.1

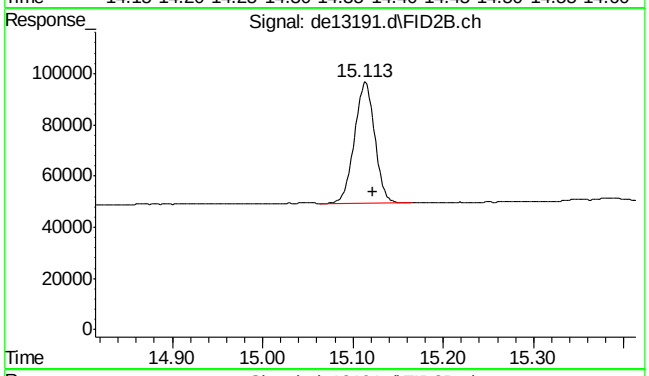
9

SGS ACCUTEST MC45897



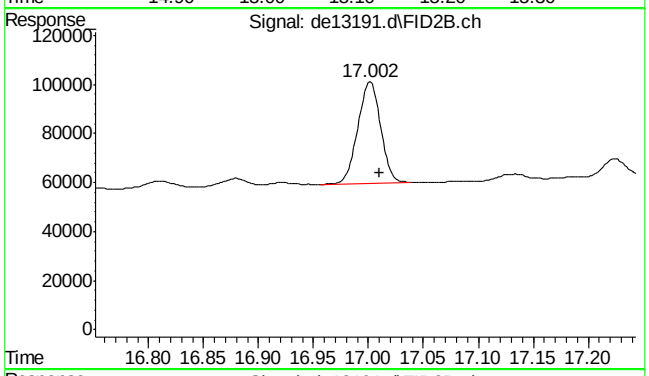
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 69399
Conc: 1.06 µg/ml



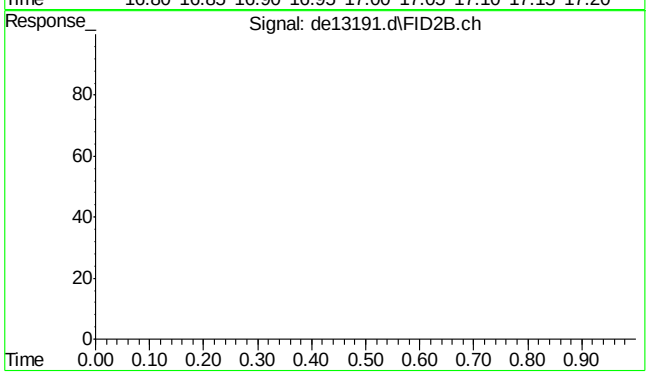
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 74594
Conc: 1.14 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 60516
Conc: 0.97 µg/ml m



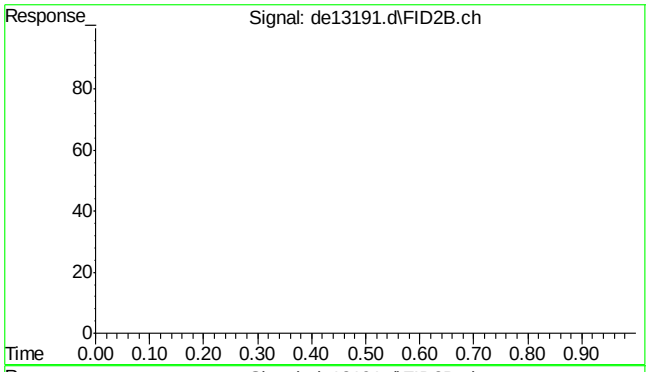
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.1

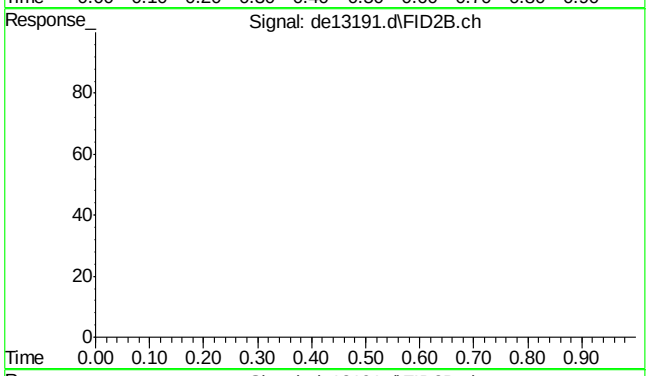
9

SGS ACCUTEST MC45897



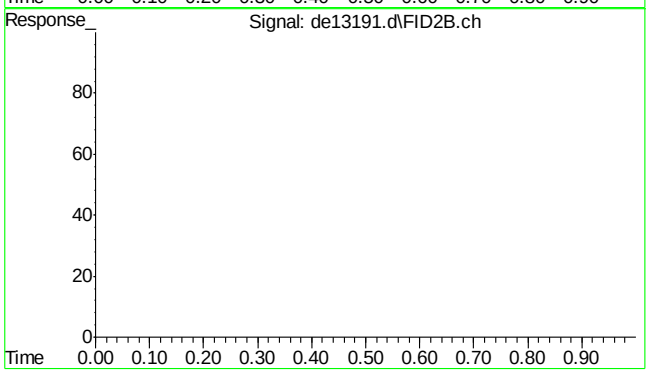
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

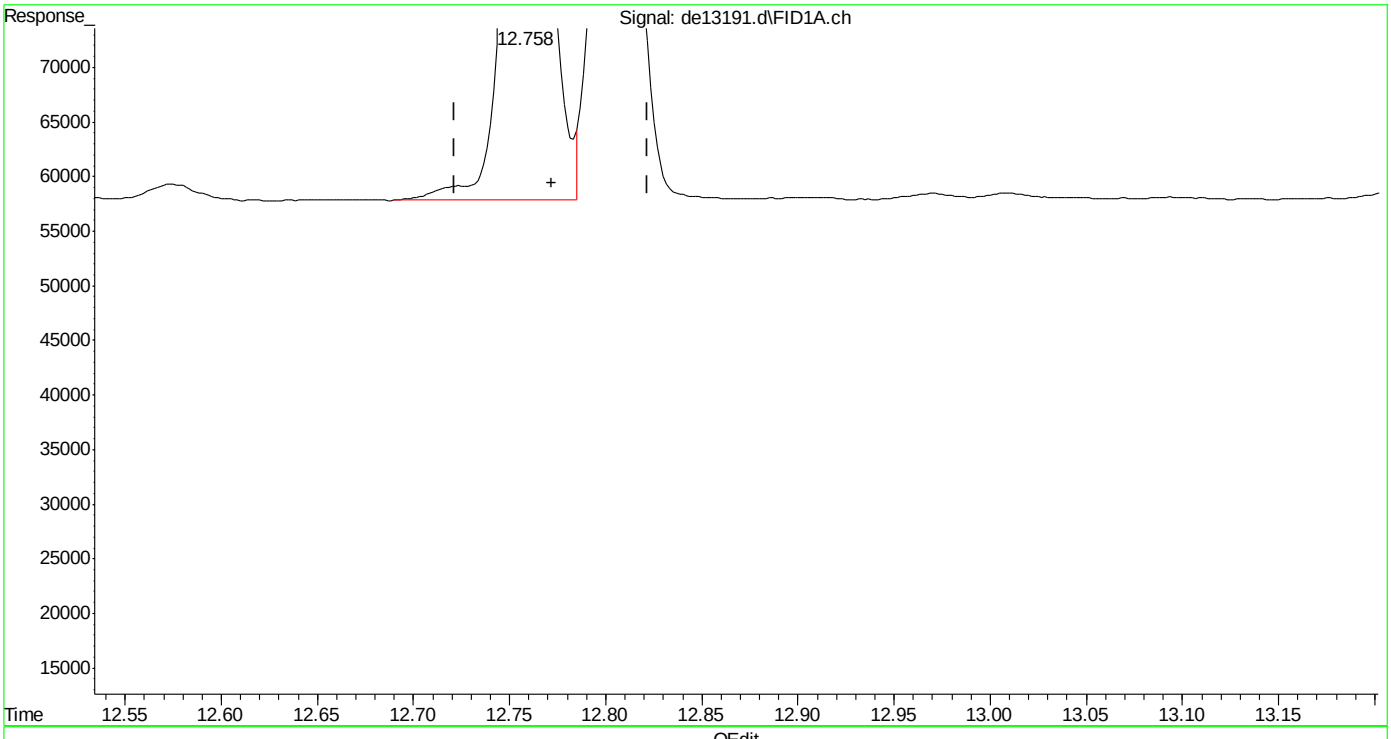
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.758min 1.044 µg/ml
response 102644

(+) = Expected Retention Time

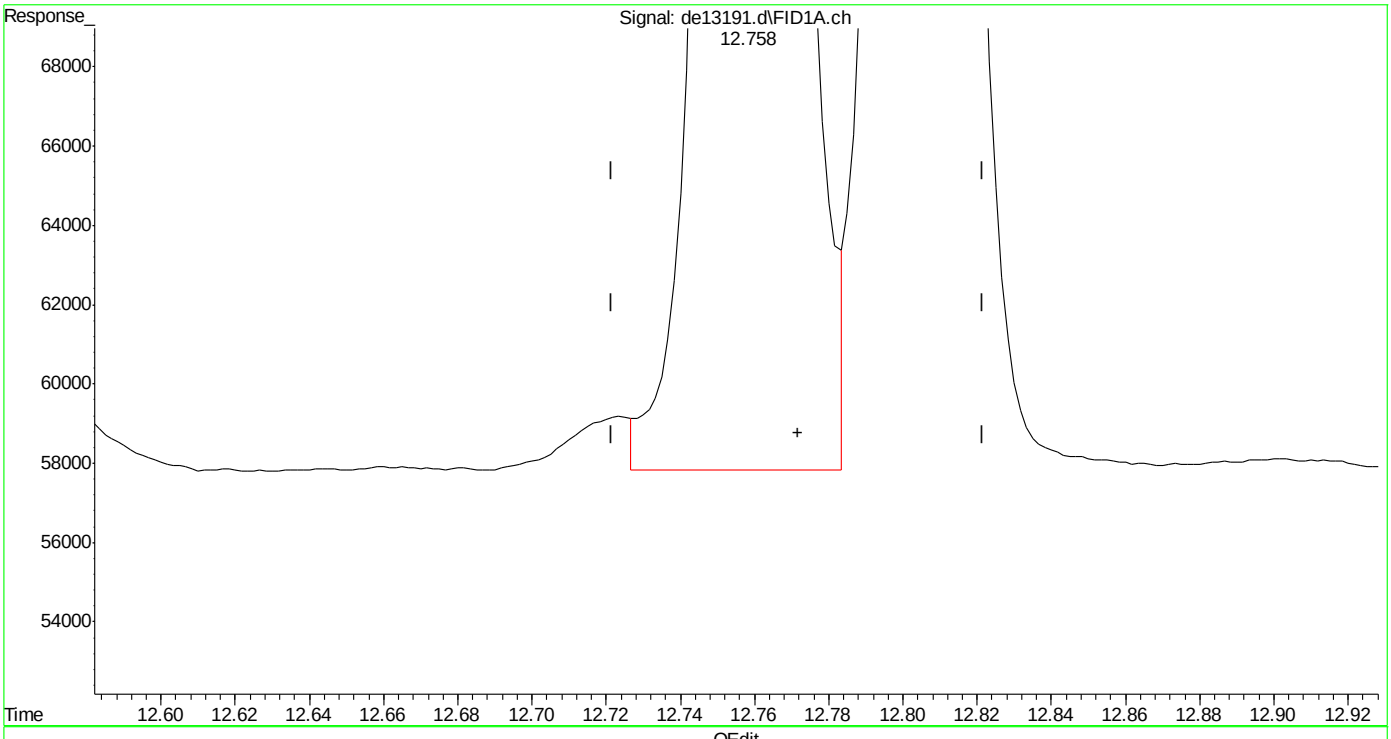
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.758min 1.022 µg/ml m
response 100487

(+) = Expected Retention Time

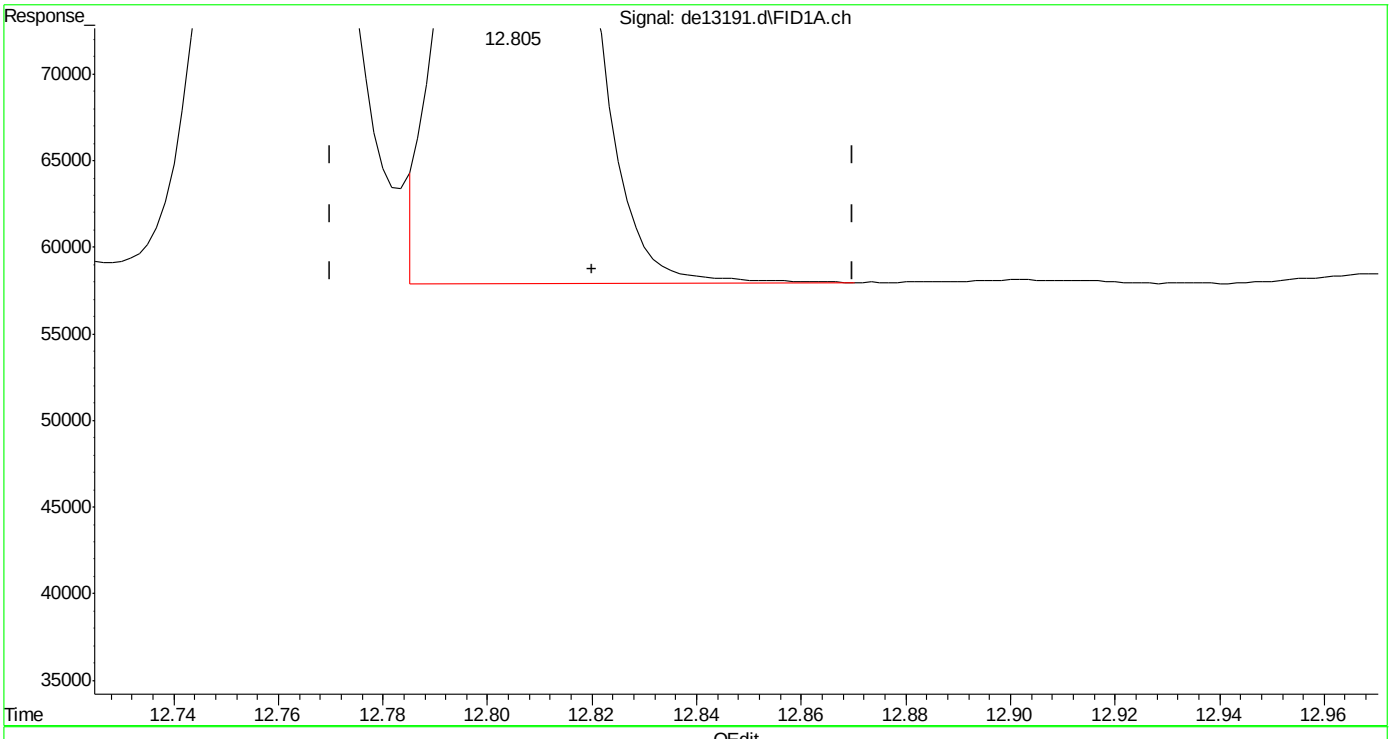
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.805min 1.000 µg/ml
response 99307

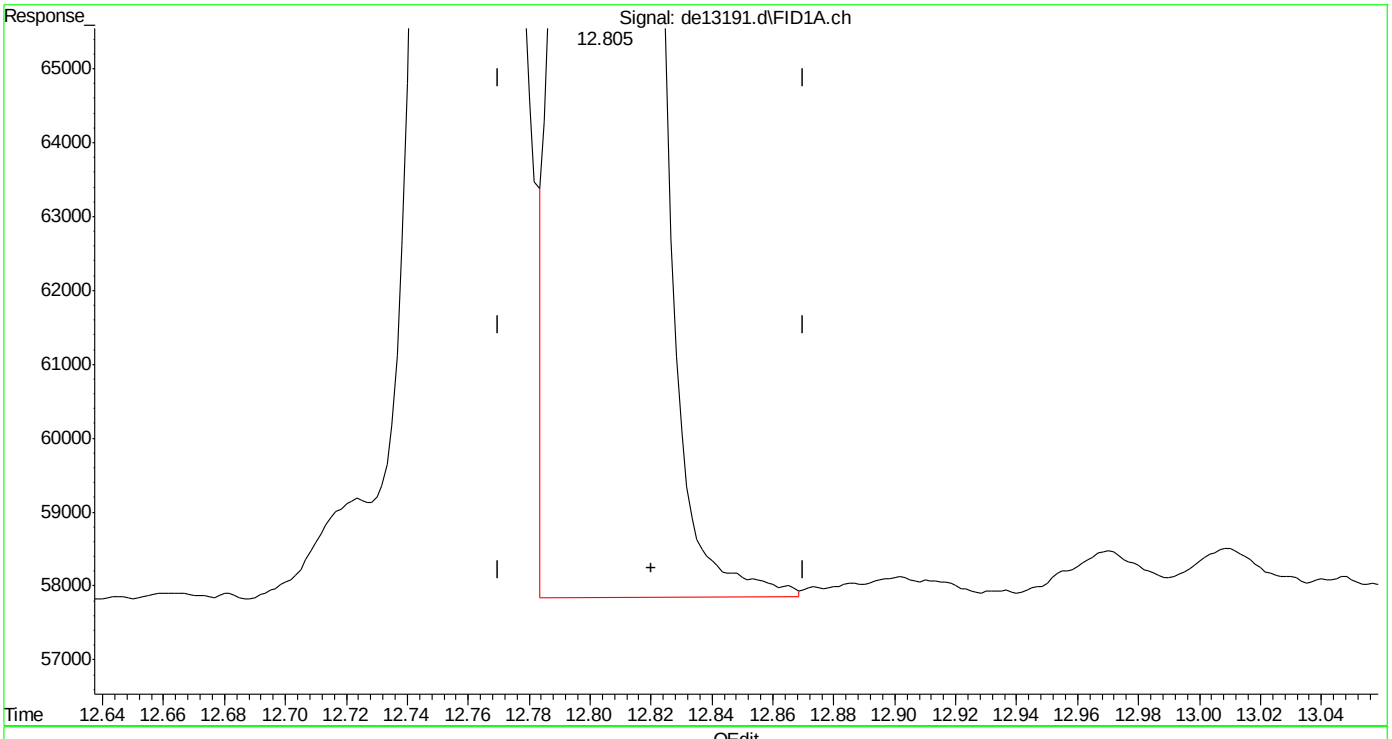
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.805min 1.010 µg/ml m
response 100279

(+) = Expected Retention Time

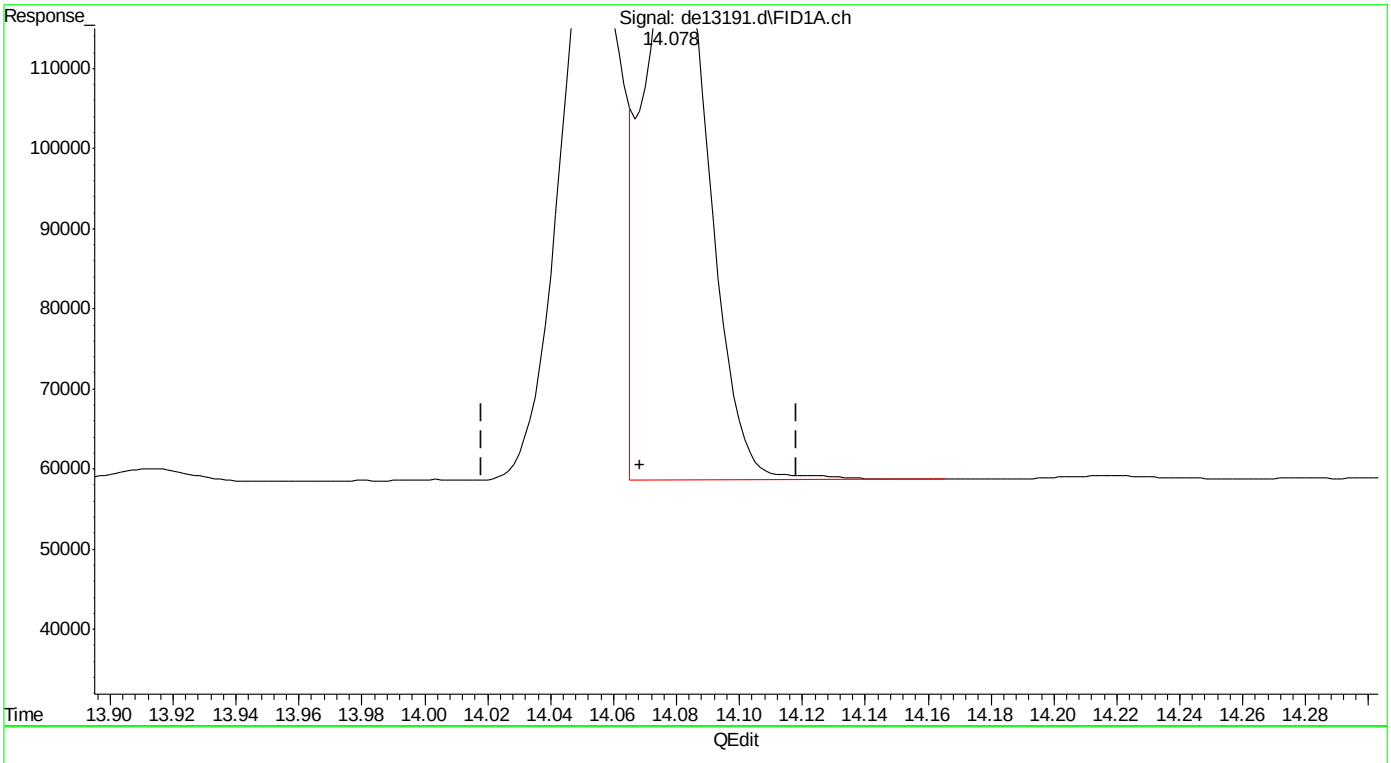
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.078min 0.983 µg/ml
response 100280

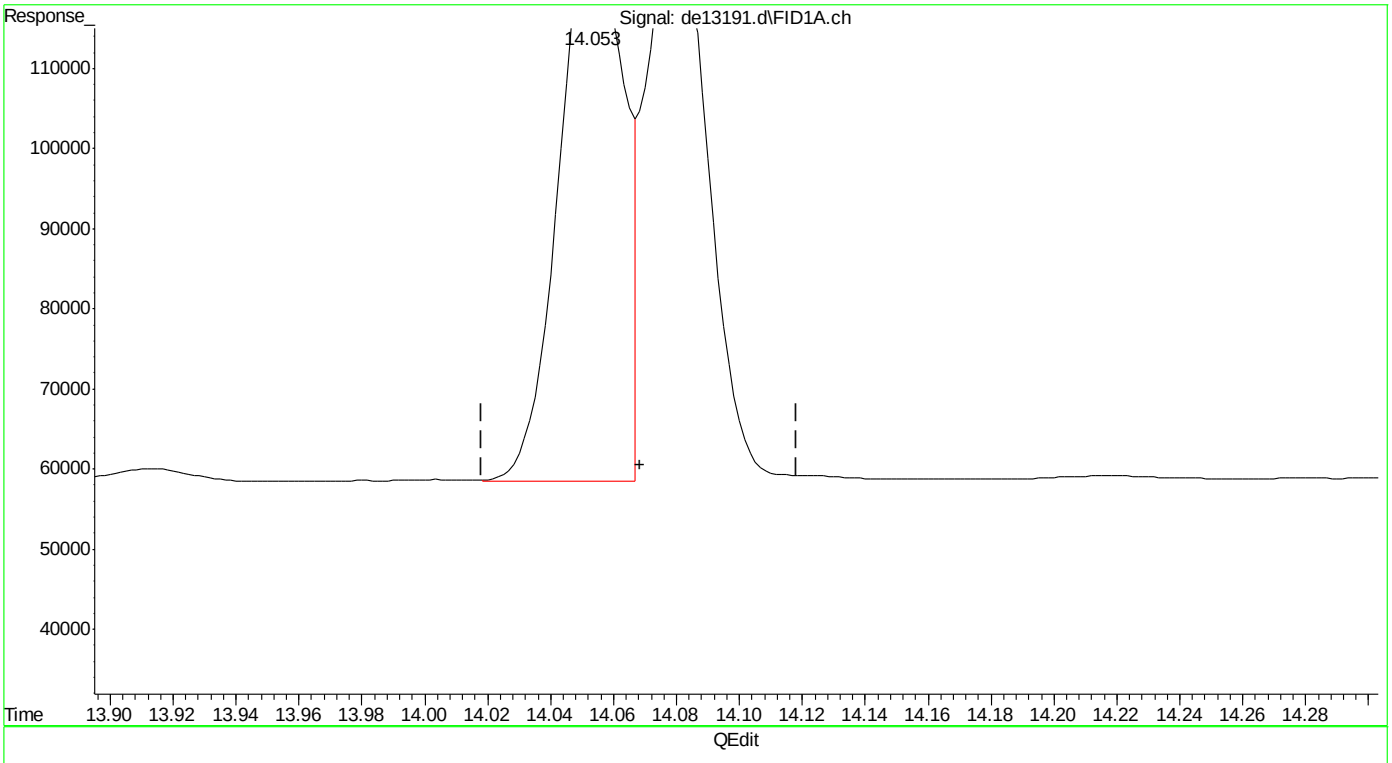
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.053min 0.988 µg/ml m
response 100827

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:37:22 2016

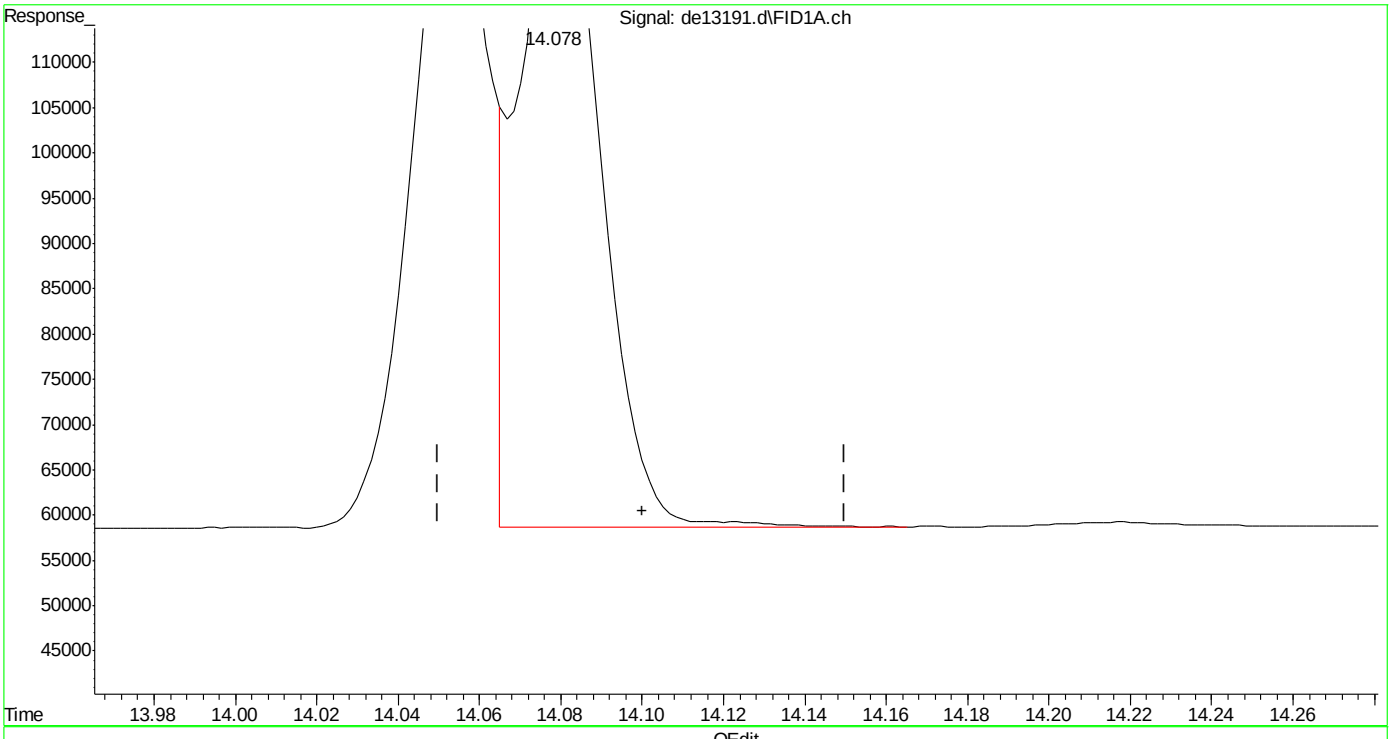
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.078min 1.024 µg/ml
response 100280

(+) = Expected Retention Time

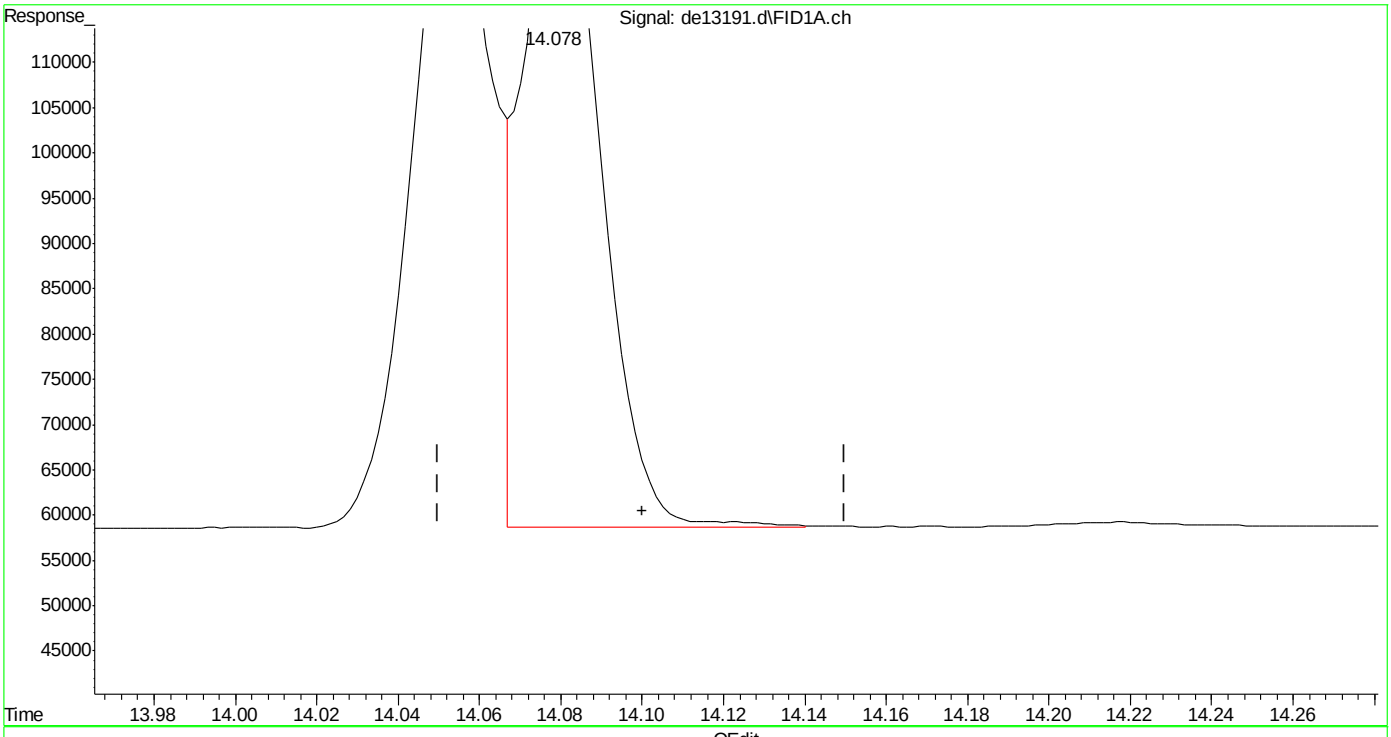
EPH160204M.M Fri Feb 05 10:37:26 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.078min 0.978 µg/ml m
response 95833

(+) = Expected Retention Time

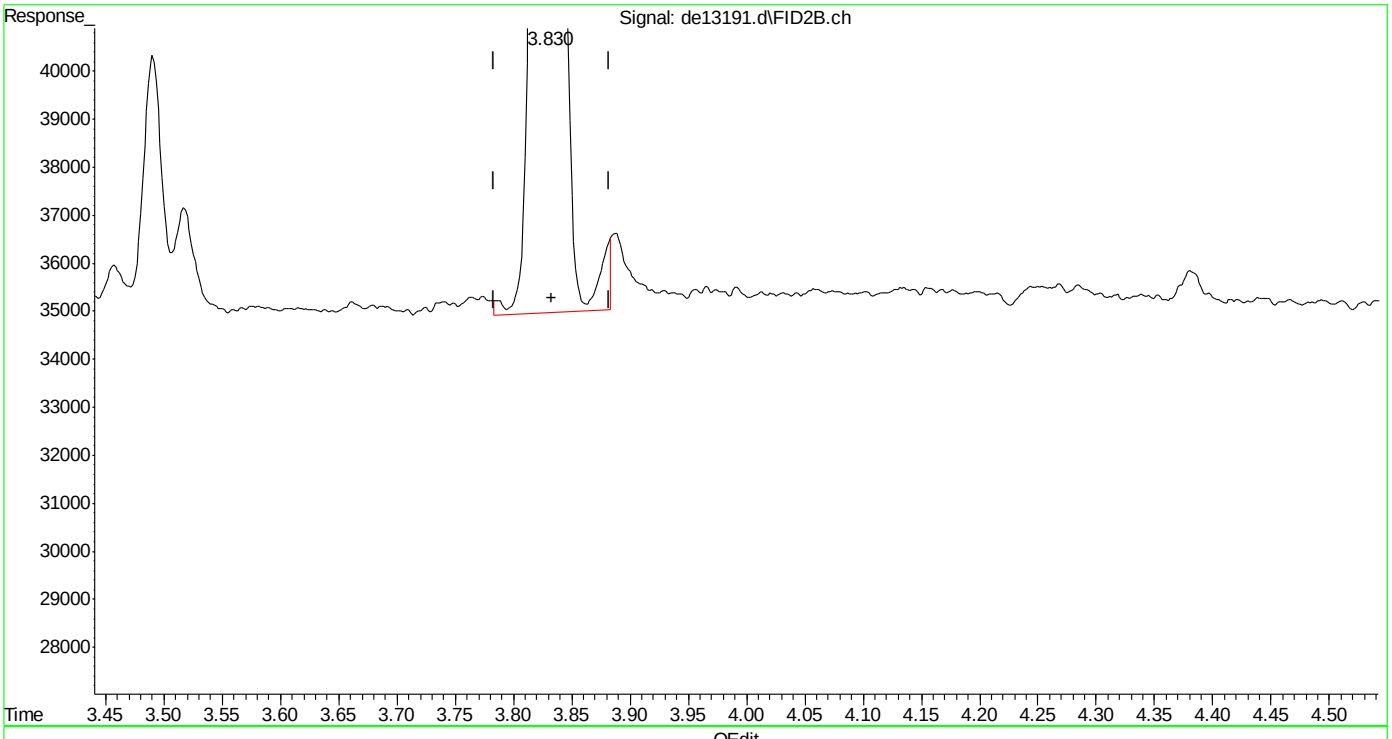
EPH160204M.M Fri Feb 05 10:37:39 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.833min 1.080 µg/ml
response 78399

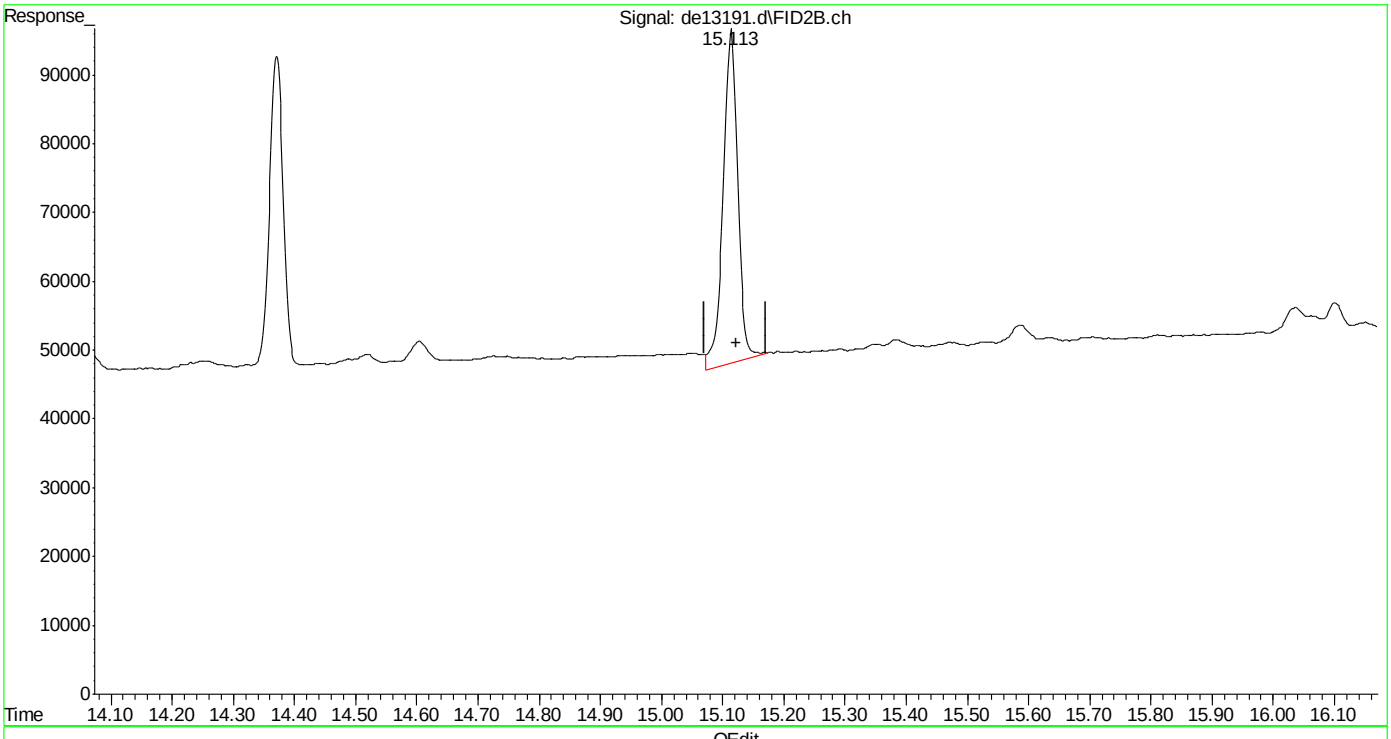
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 1.239 µg/ml
response 80783

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:38:11 2016

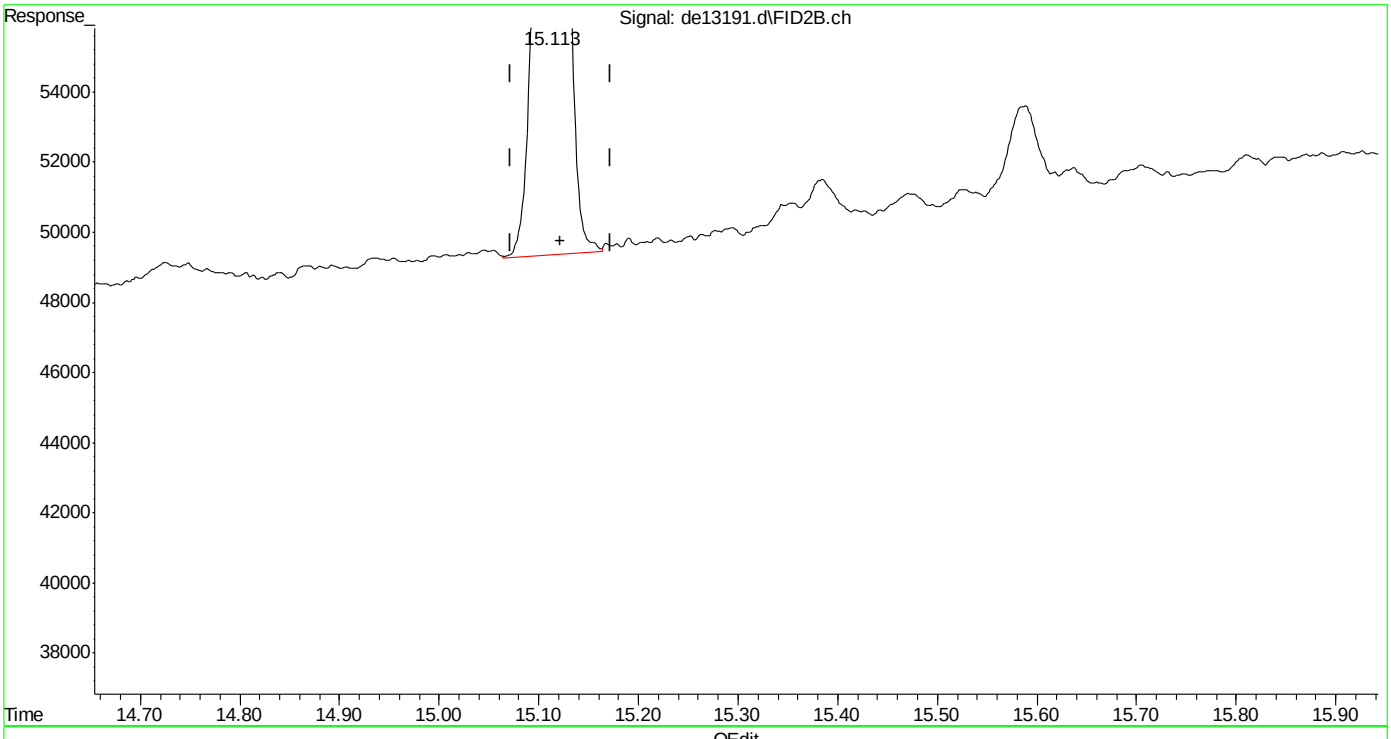
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 1.144 µg/ml m
response 74594

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:38:16 2016

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	184769	1.881 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.40%		
6) s 2-bromonaphthalene	7.532	125964	1.890 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.45%		
11) s o-terphenyl	10.077	208029	1.952 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 9.76%		
35) s 1-chlorooctadecane	11.247	119513	2.175 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 10.87%		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	3994043	2.778 µg/mlm
2) naphthalene	5.352	205575	1.860 µg/ml
3) 2-methylnaphthalene	6.248	205018	1.875 µg/ml
5) acenaphthylene	7.365	202426	1.881 µg/ml
7) acenaphthene	7.607	207471	1.893 µg/ml
8) fluorene	8.252	204542	1.903 µg/ml
9) phenanthrene	9.433	207031	1.943 µg/ml
10) anthracene	9.492	199105	2.019 µg/ml
12) fluoranthene	10.940	203479	1.960 µg/ml
13) pyrene	11.198	206224	1.967 µg/ml
14) benzo(a)anthracene	12.760	197822	2.010 µg/mlm
15) chrysene	12.807	197927	1.992 µg/mlm
16) benzo(B)fluoranthene	14.053	197572	1.943 µg/mlm
17) benzo(k)fluoranthene	14.082	193855	1.989 µg/mlm
18) benzo(a)pyrene	14.387	184685	1.912 µg/ml
19) indeno(1,2,3-cd)pyrene	15.523	186820	1.909 µg/ml
20) dibenzo(ah)anthracene	15.568	185980	1.983 µg/ml
21) benzo(ghi)perylene	15.742f	184915	1.960 µg/ml
25) h c-9	2.680	157422	2.139 µg/mlm
26) h c-10	3.833	158649	2.139 µg/mlm
27) naphthalene #2	5.510	169071	2.176 µg/ml
28) c-12	5.685	157764	2.137 µg/ml
29) 2-methylnaphthalene #2	6.403	172009	2.148 µg/ml
30) c-14	7.202	157636	2.130 µg/ml
31) c-16	8.530	156773	2.123 µg/ml
32) c-18	9.725	154646	2.108 µg/ml
33) c-19	10.282	151034	2.126 µg/ml
34) c-20	10.812	148378	2.126 µg/ml
36) c-22	11.808	146070	2.124 µg/ml
37) c-24	12.725	135579	2.049 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.577	142920	2.087	µg/ml
39)		c-28	14.370	137233	2.060	µg/ml
40)	h	c-30	15.122	139197	2.037	µg/mlm
41)	h	c-36	17.010	119416	1.930	µg/mlm

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

9.5.2

9

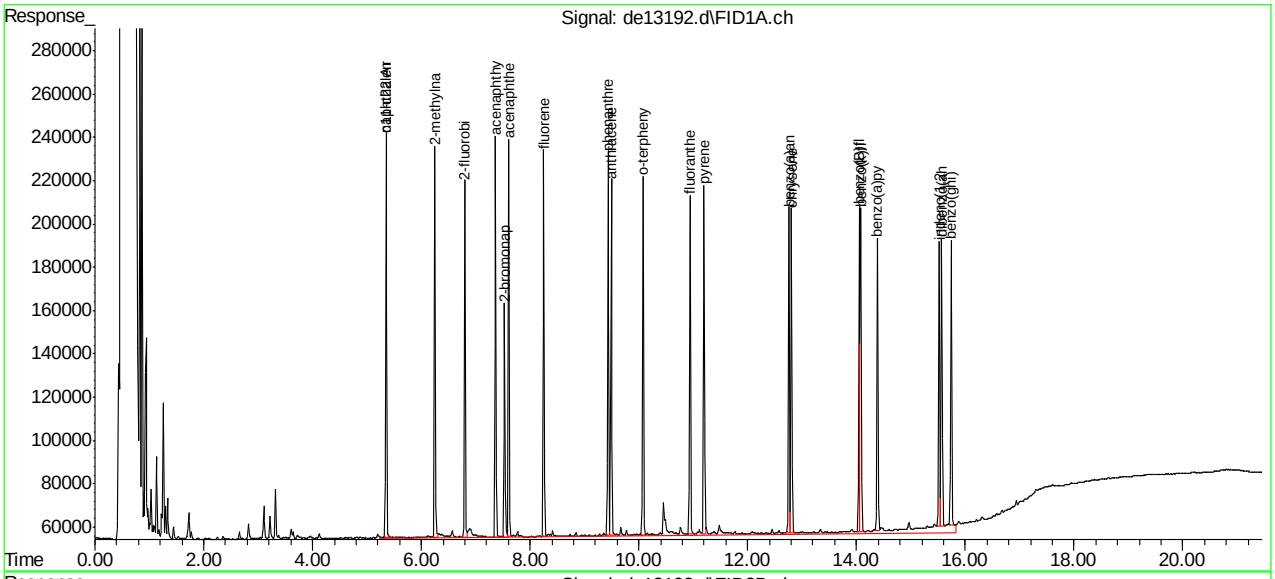
SGS ACCUTEST MC45897

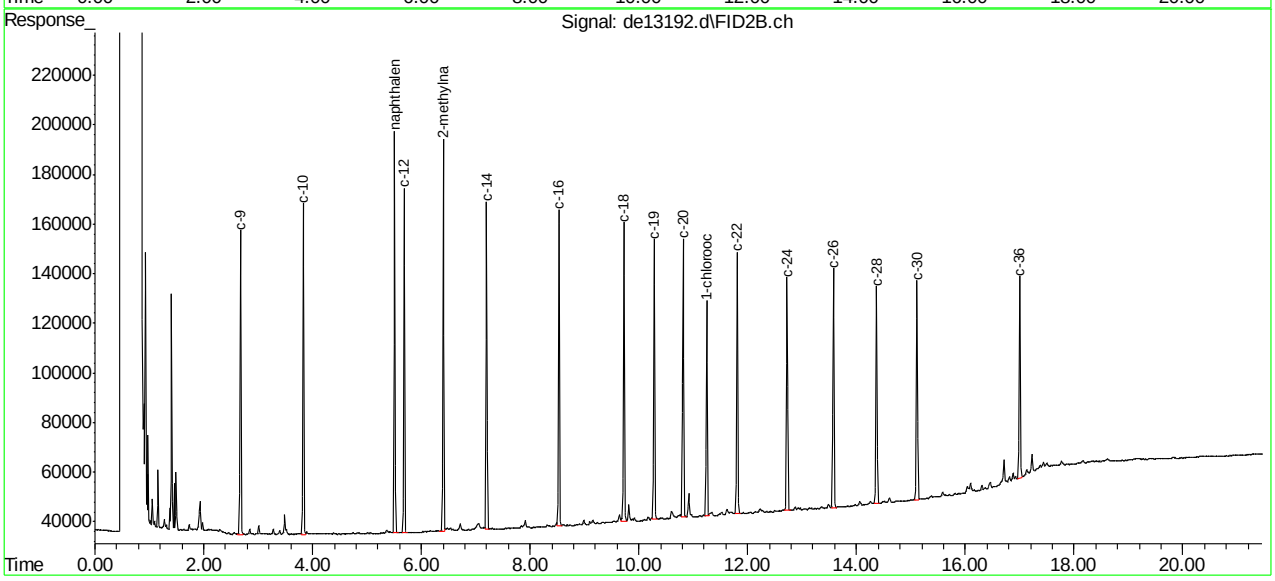
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

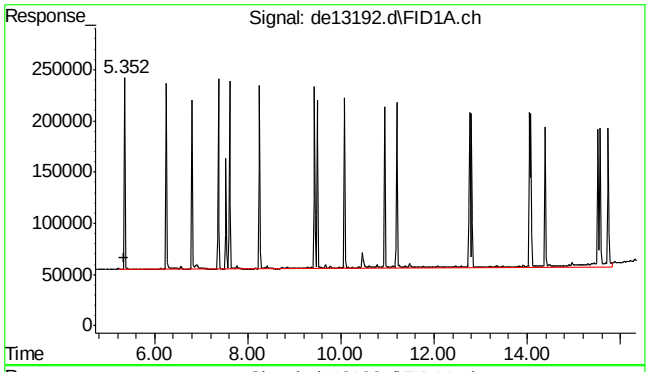
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



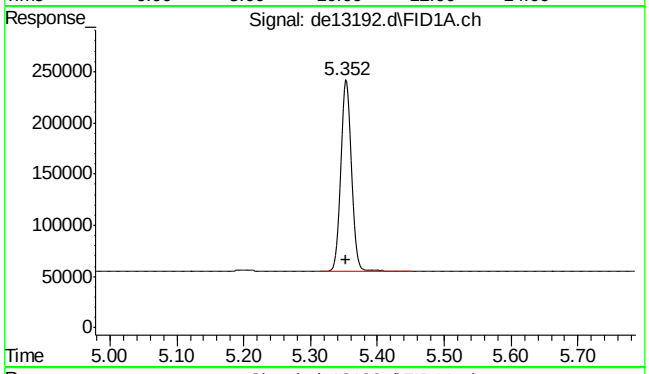


SGS ACCUTEST MC45897



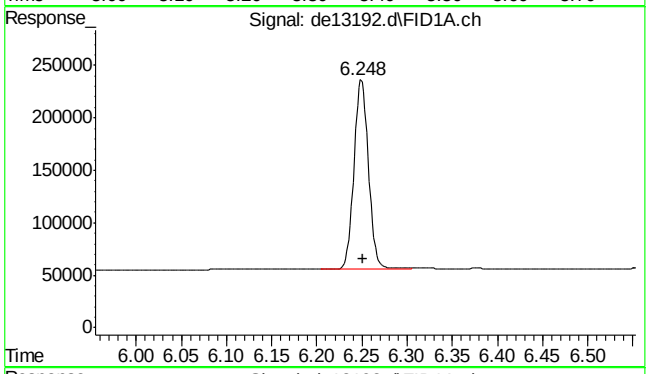
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3994043
Conc: 2.78 µg/ml m



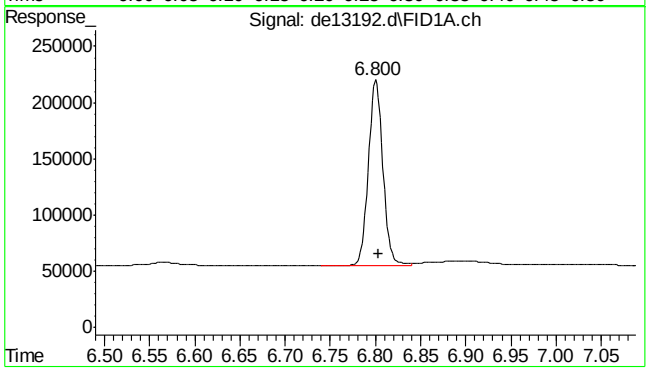
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 205575
Conc: 1.86 µg/ml



#3 2-methylnaphthalene

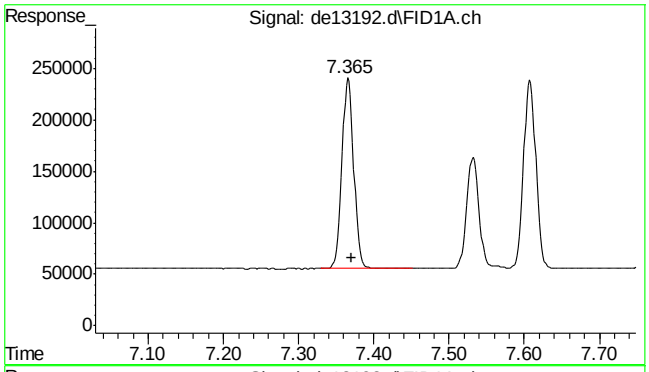
R.T.: 6.248 min
Delta R.T.: -0.003 min
Response: 205018
Conc: 1.88 µg/ml



#4 2-fluorobiphenyl

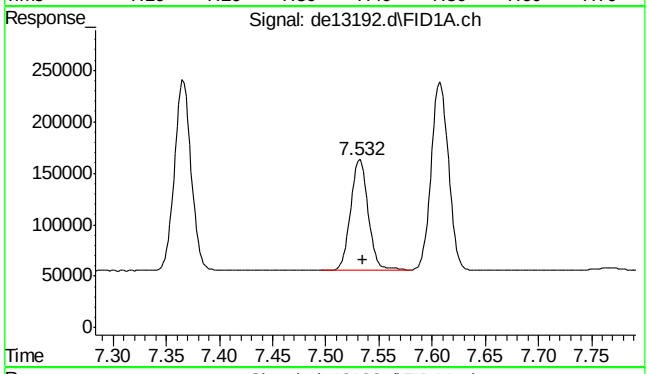
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 184769
Conc: 1.88 µg/ml

SGS ACCUTEST MC45897



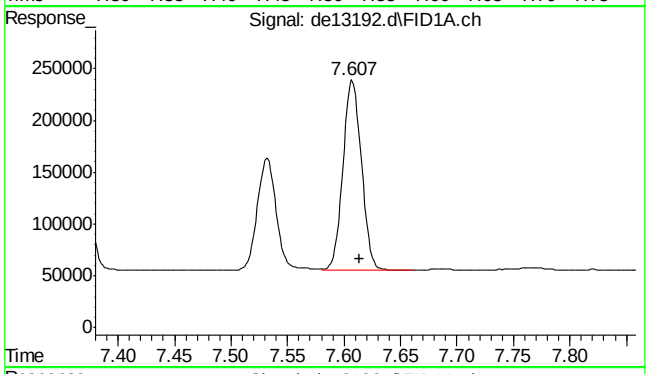
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 202426
Conc: 1.88 µg/ml



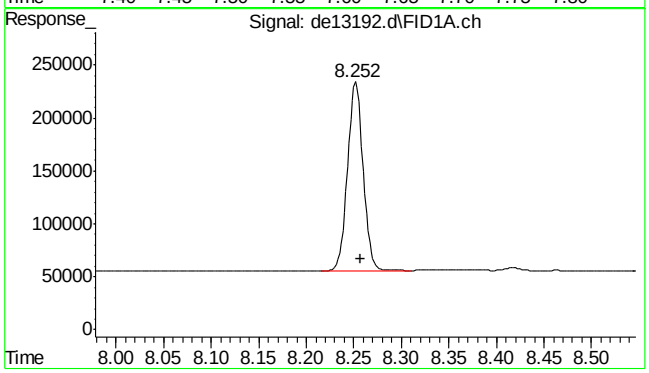
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 125964
Conc: 1.89 µg/ml



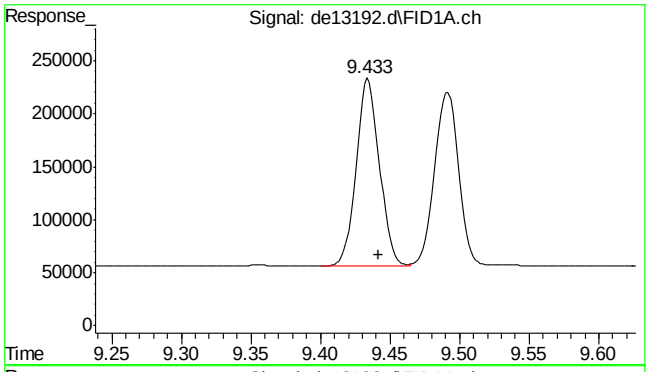
#7 acenaphthene

R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 207471
Conc: 1.89 µg/ml



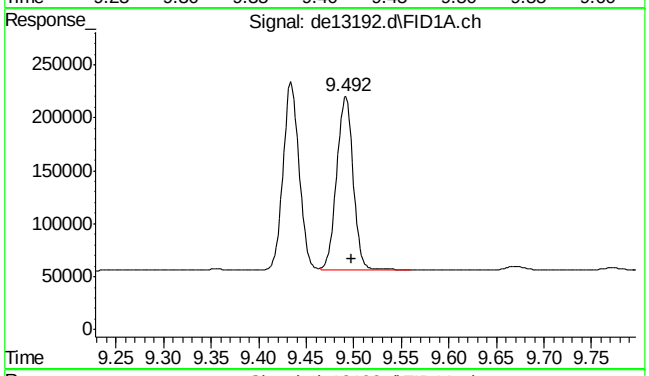
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 204542
Conc: 1.90 µg/ml



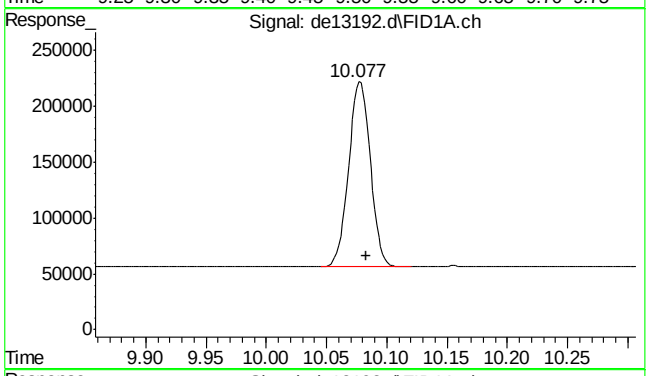
#9 phenanthrene

R.T.: 9.433 min
Delta R.T.: -0.008 min
Response: 207031
Conc: 1.94 µg/ml



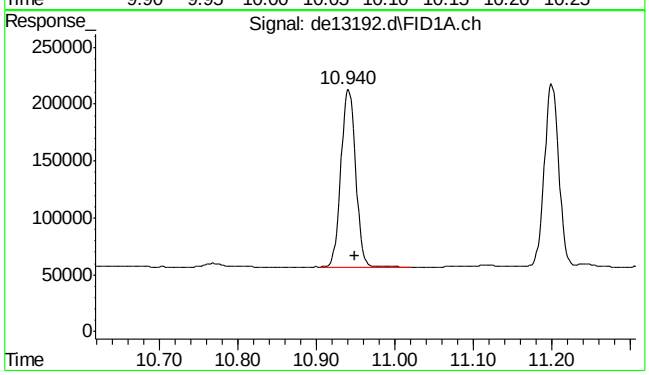
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 199105
Conc: 2.02 µg/ml



#11 o-terphenyl

R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 208029
Conc: 1.95 µg/ml



#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 203479
Conc: 1.96 µg/ml

9.5.2

9

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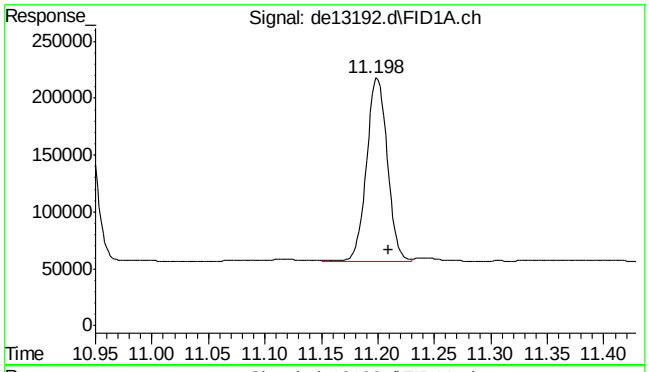
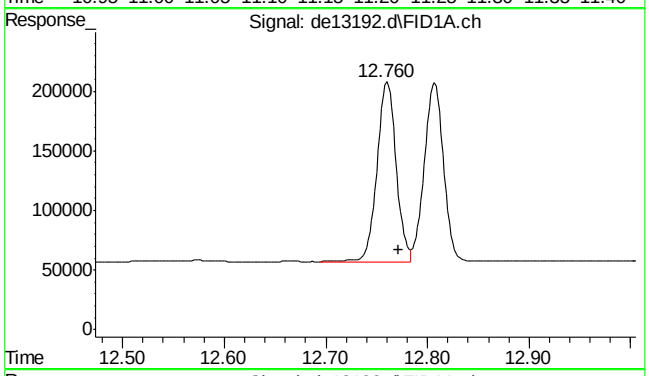


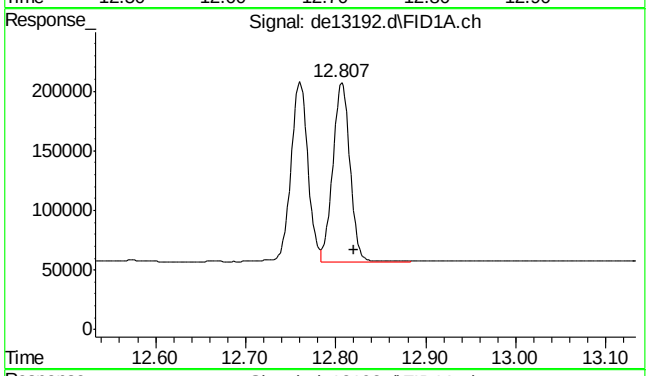
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 206224
Conc: 1.97 µg/ml



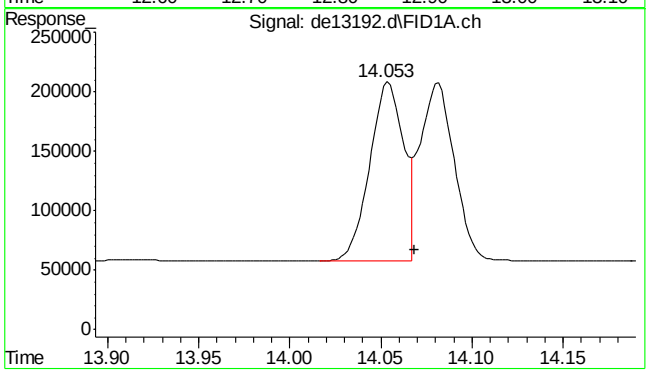
#14 benzo(a)anthracene

R.T.: 12.760 min
Delta R.T.: -0.012 min
Response: 197822
Conc: 2.01 µg/ml m



#15 chrysene

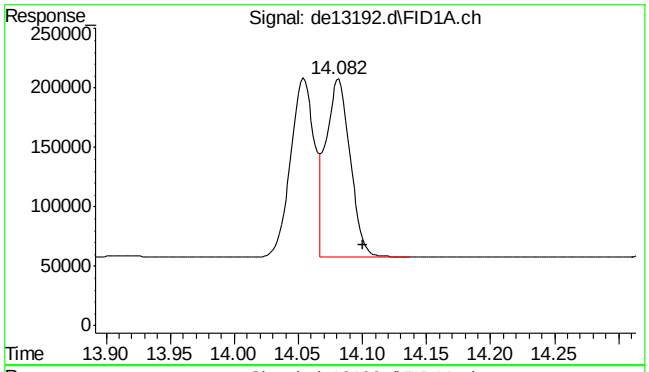
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 197927
Conc: 1.99 µg/ml m



#16 benzo(B)fluoranthene

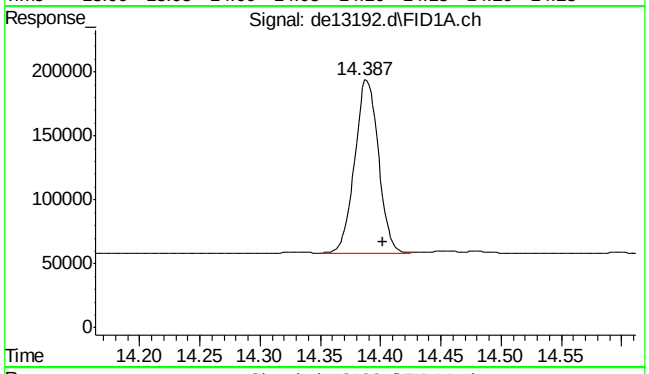
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 197572
Conc: 1.94 µg/ml m

SGS ACCUTEST MC45897



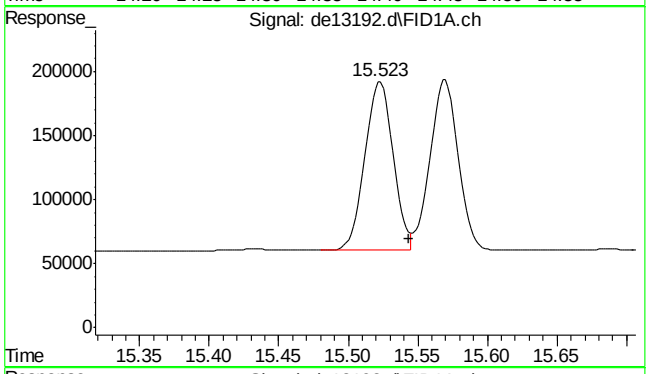
#17 benzo(k)fluoranthene

R.T.: 14.082 min
Delta R.T.: -0.018 min
Response: 193855
Conc: 1.99 µg/ml m



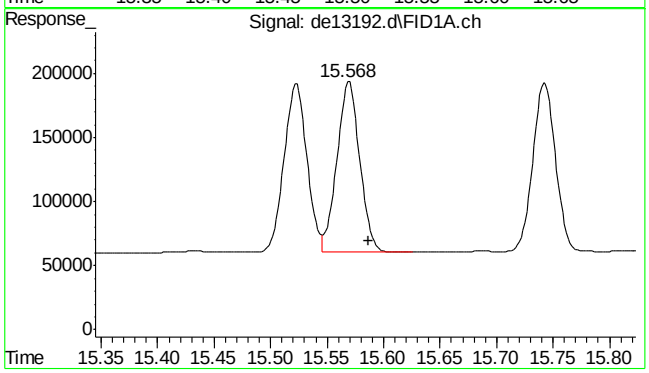
#18 benzo(a)pyrene

R.T.: 14.387 min
Delta R.T.: -0.015 min
Response: 184685
Conc: 1.91 µg/ml



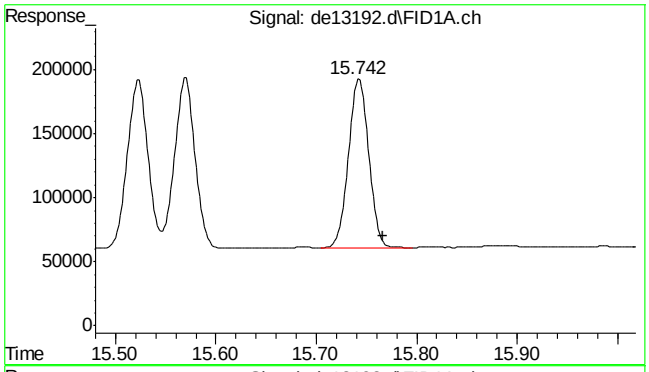
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.523 min
Delta R.T.: -0.020 min
Response: 186820
Conc: 1.91 µg/ml



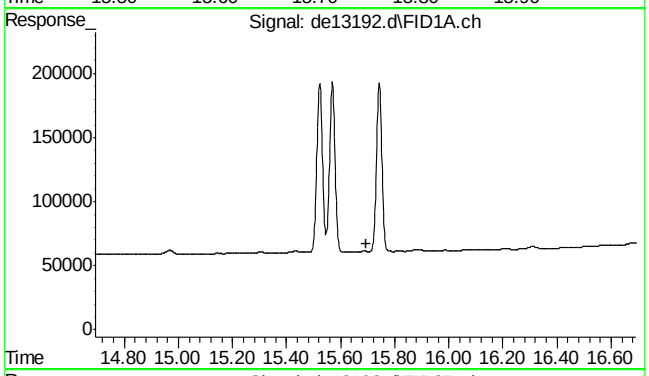
#20 dibenzo(ah)anthracene

R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 185980
Conc: 1.98 µg/ml



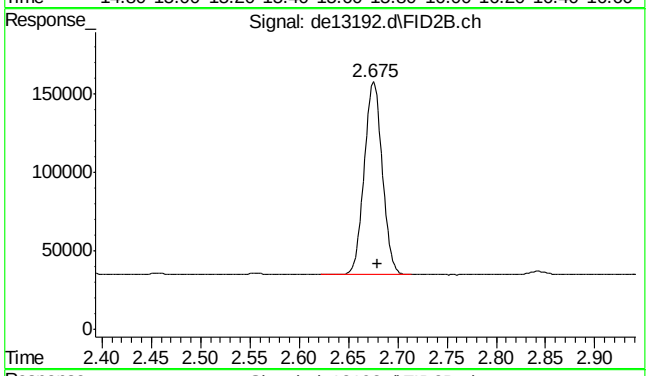
#21 benzo(ghi)perylene

R.T.: 15.742 min
Delta R.T.: -0.025 min
Response: 184915
Conc: 1.96 µg/ml



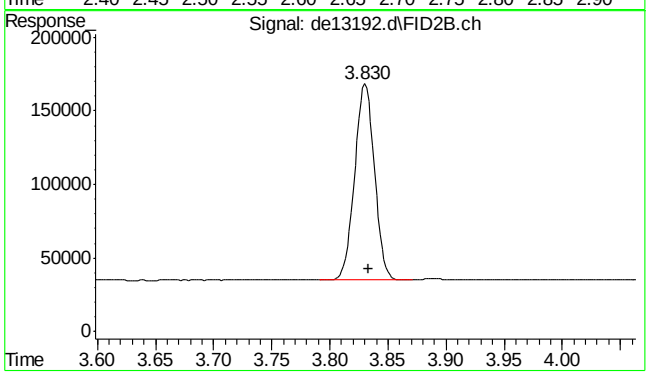
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

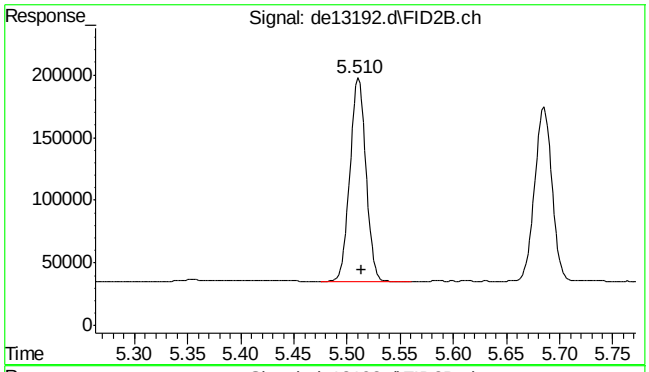
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 157422
Conc: 2.14 µg/ml m



#26 c-10

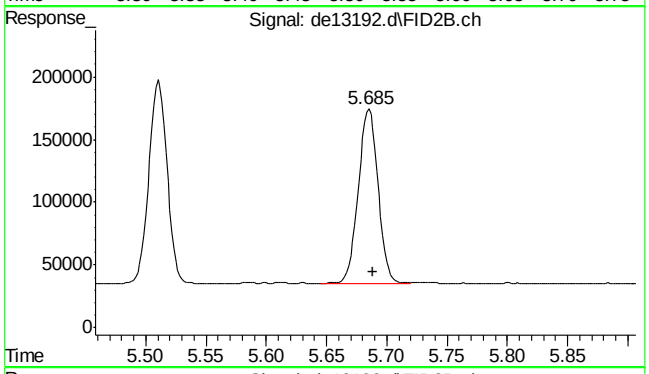
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 158649
Conc: 2.14 µg/ml m

SGS ACCUTEST MC45897



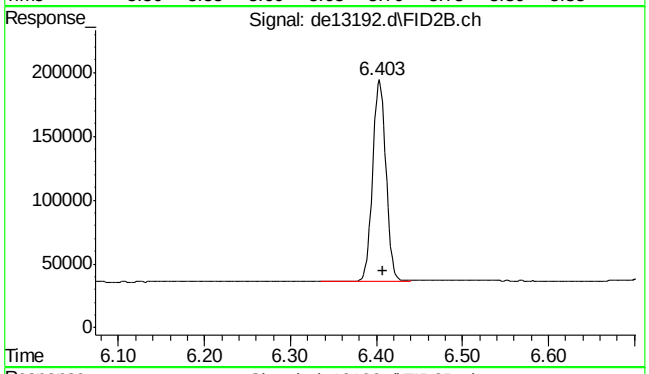
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 169071
Conc: 2.18 µg/ml



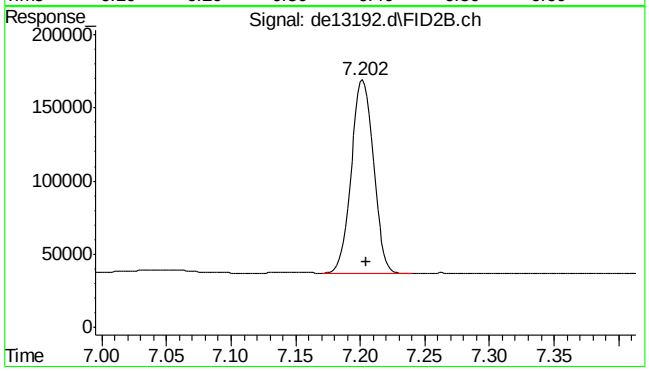
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 157764
Conc: 2.14 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 172009
Conc: 2.15 µg/ml



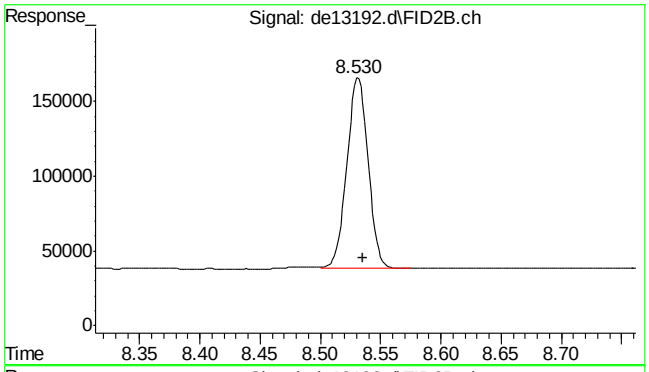
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 157636
Conc: 2.13 µg/ml

9.5.2

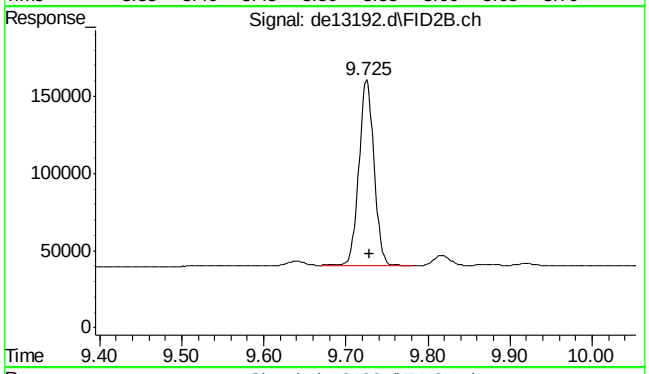
9

SGS ACCUTEST MC45897



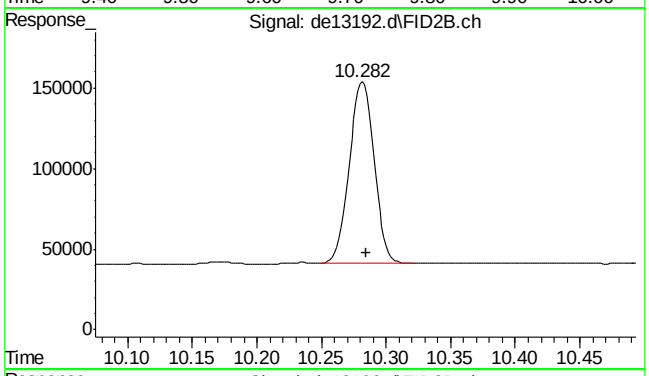
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 156773
Conc: 2.12 µg/ml



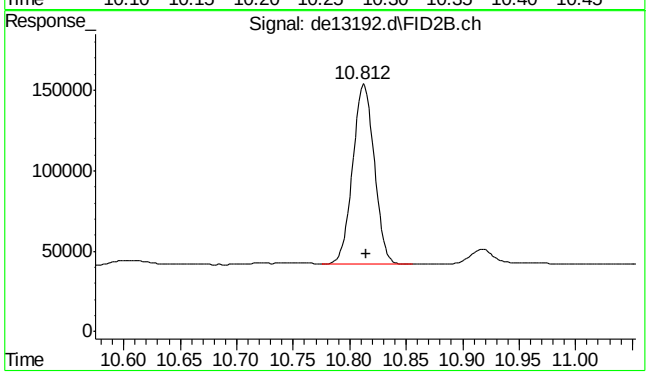
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 154646
Conc: 2.11 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 151034
Conc: 2.13 µg/ml



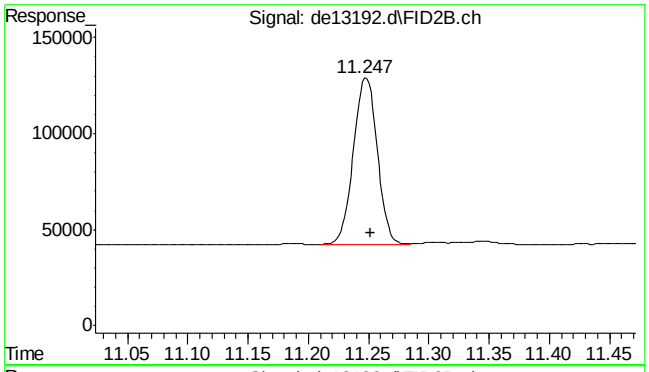
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 148378
Conc: 2.13 µg/ml

9.5.2

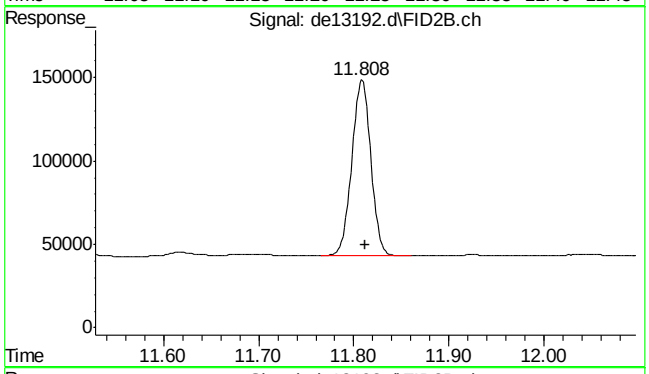
9

SGS ACCUTEST MC45897



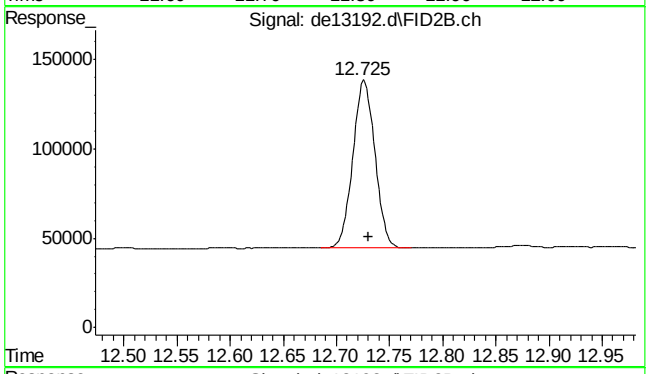
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 119513
Conc: 2.17 µg/ml



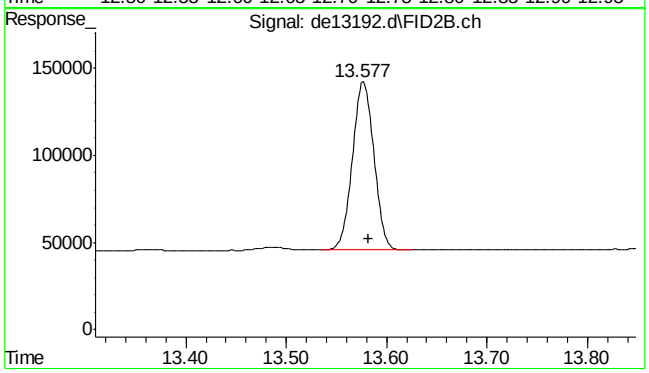
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 146070
Conc: 2.12 µg/ml



#37 c-24

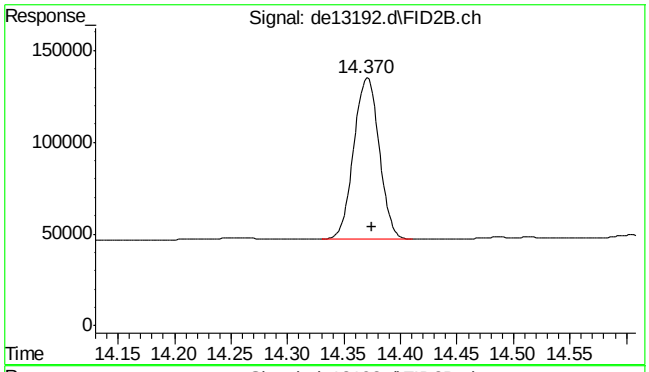
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 135579
Conc: 2.05 µg/ml



#38 c-26

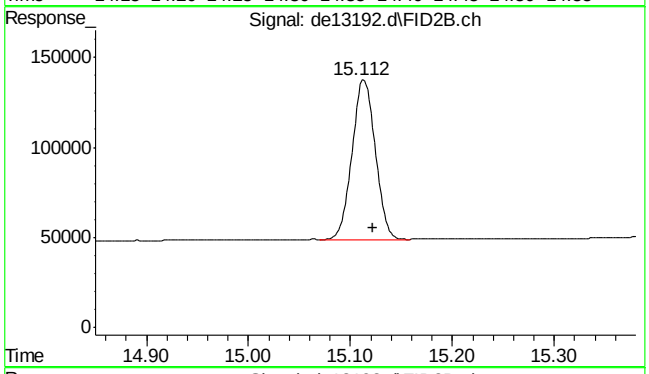
R.T.: 13.577 min
Delta R.T.: -0.005 min
Response: 142920
Conc: 2.09 µg/ml

SGS ACCUTEST MC45897



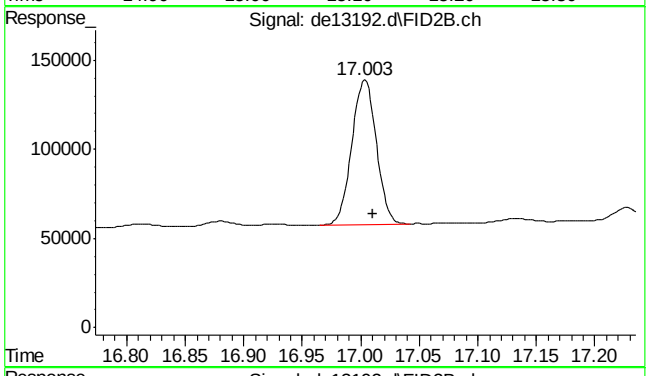
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 137233
Conc: 2.06 µg/ml



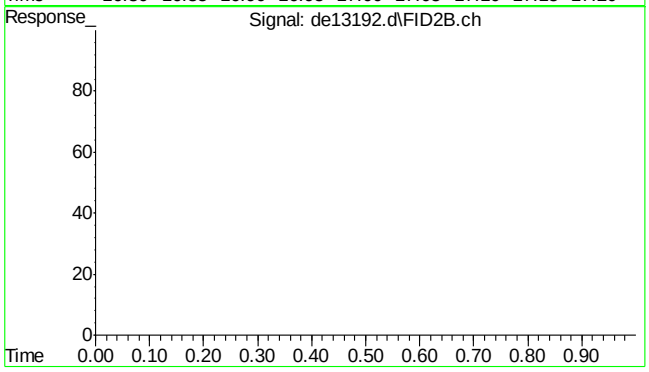
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 139197
Conc: 2.04 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 119416
Conc: 1.93 µg/ml m



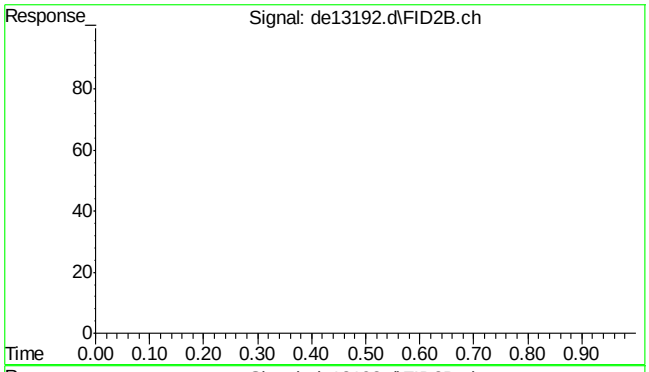
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.2

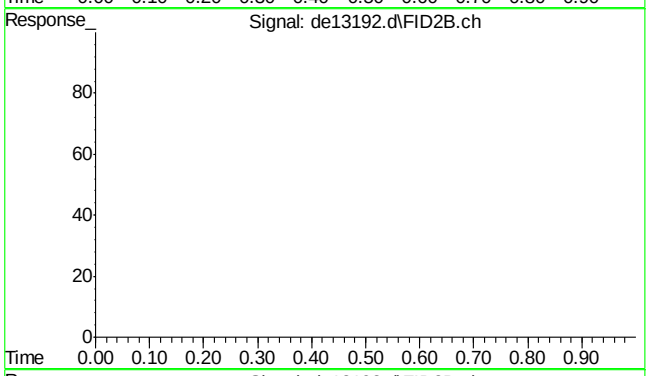
9

SGS ACCUTEST MC45897



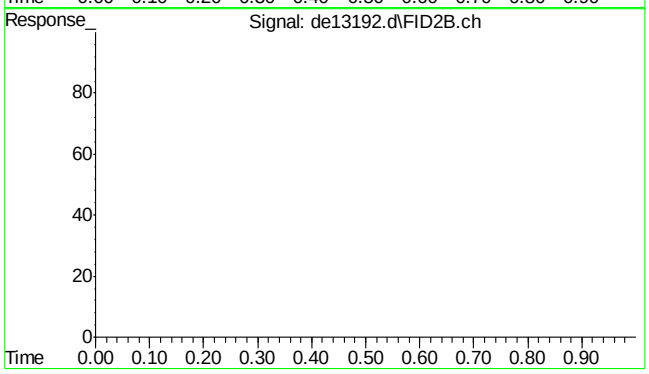
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

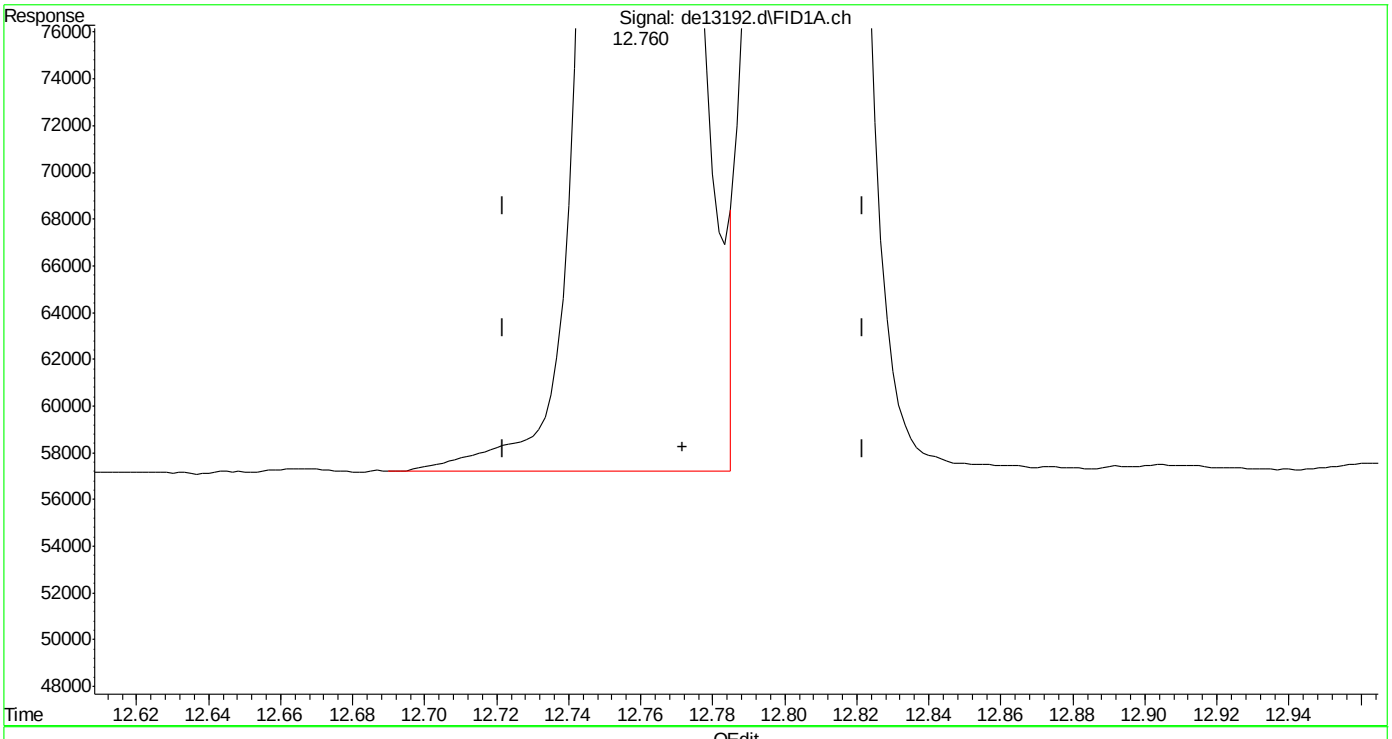
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.760min 2.018 µg/ml
response 198598

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:39:22 2016

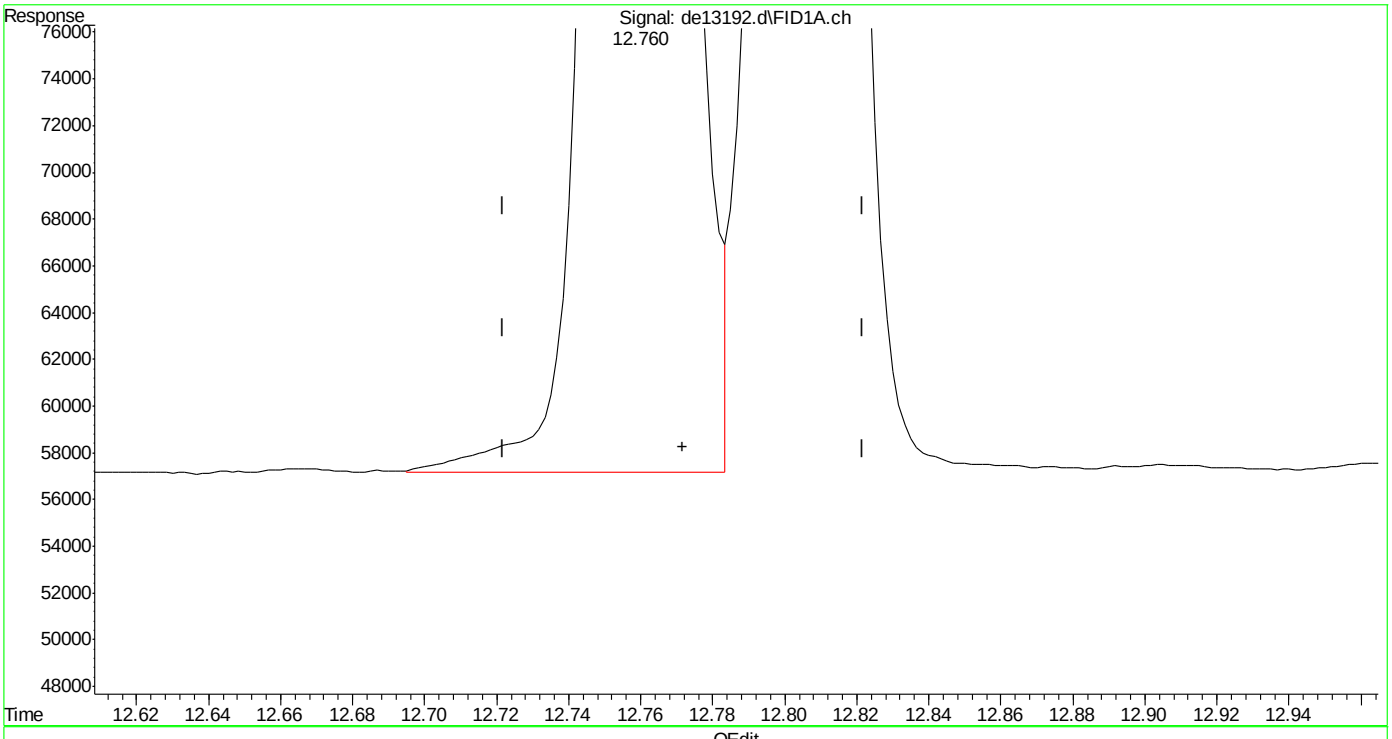
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.760min 2.010 µg/ml m
response 197822

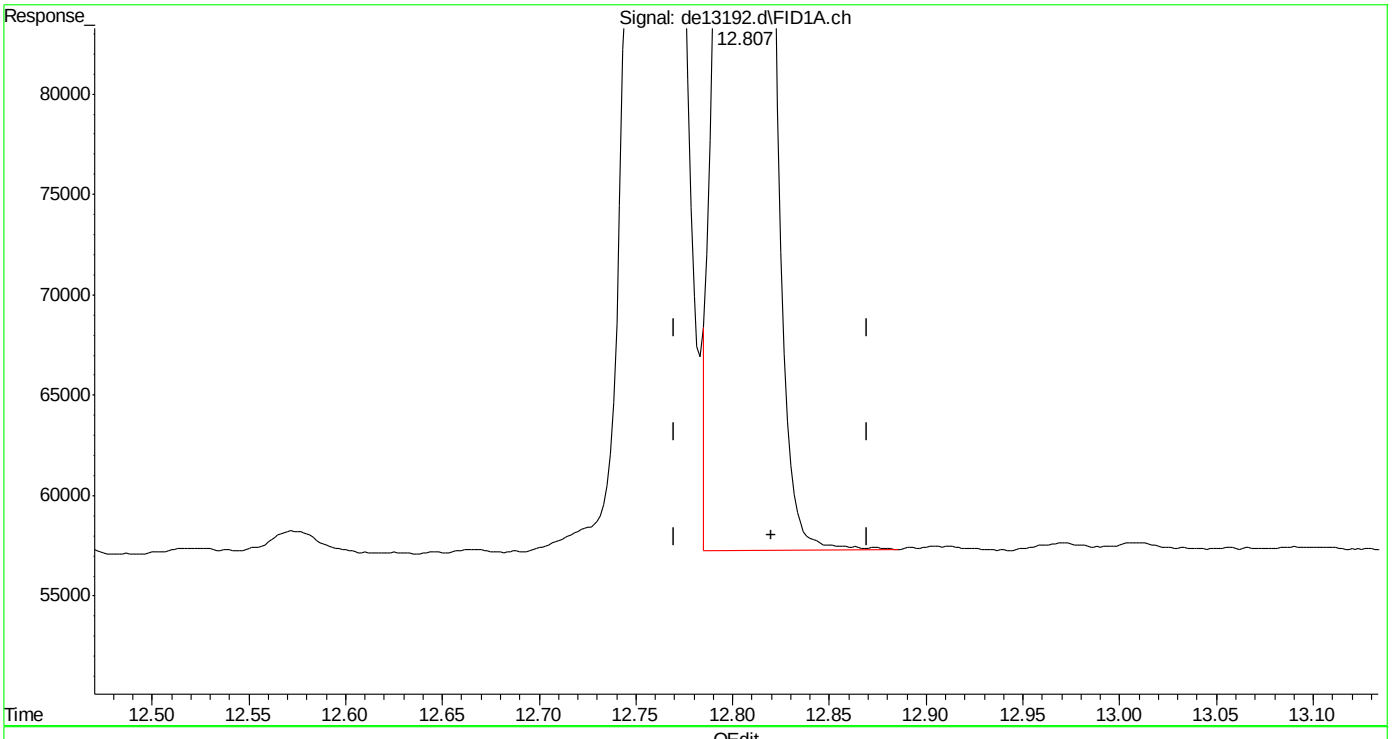
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.807min 1.977 µg/ml
response 196356

(+) = Expected Retention Time

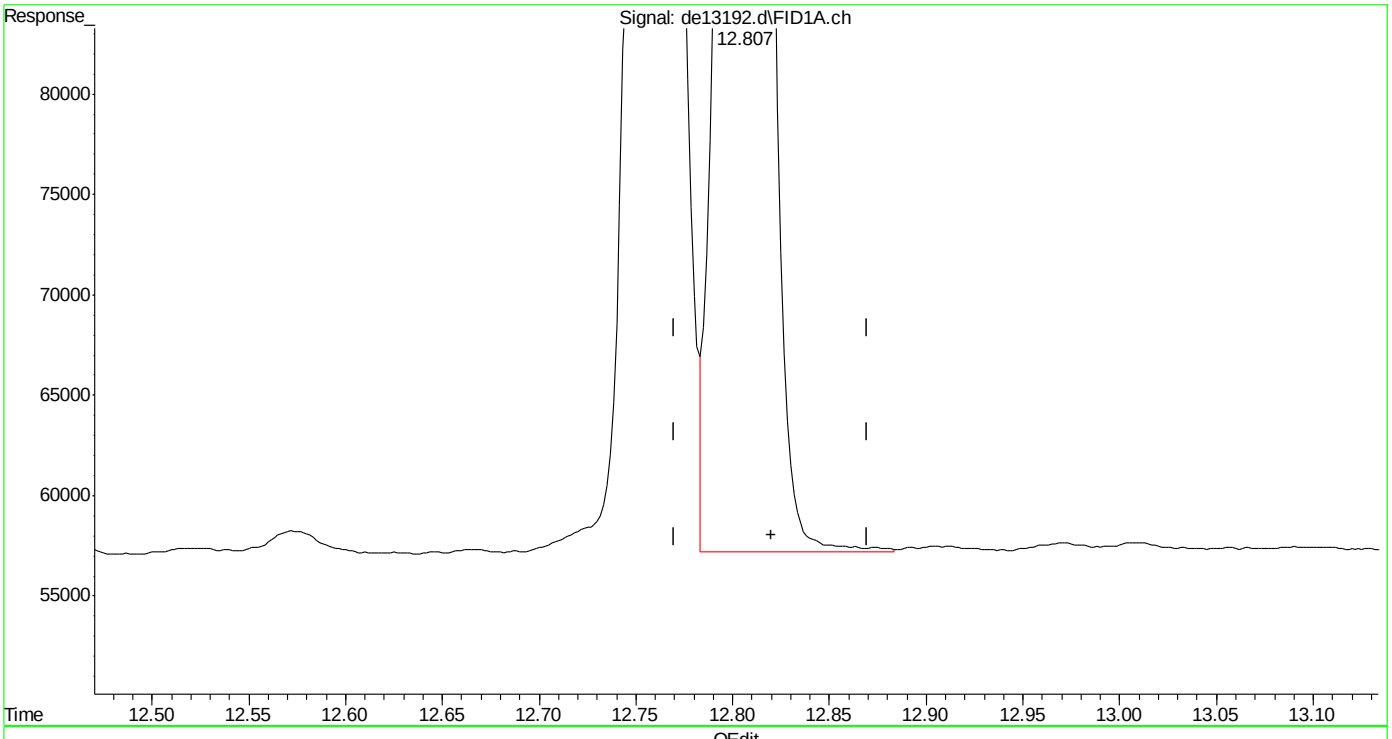
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.807min 1.992 µg/ml m
response 197927

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:40:19 2016

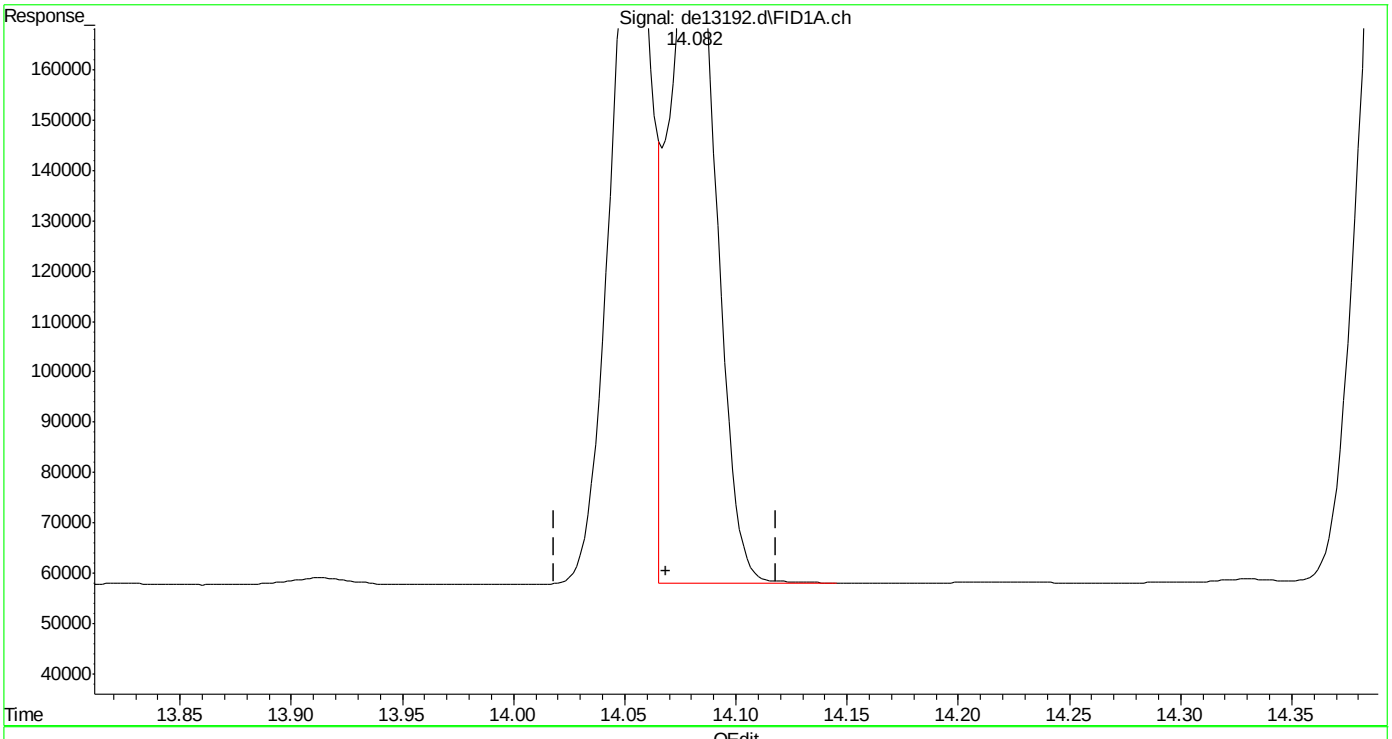
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.082min 1.990 µg/ml
response 202408

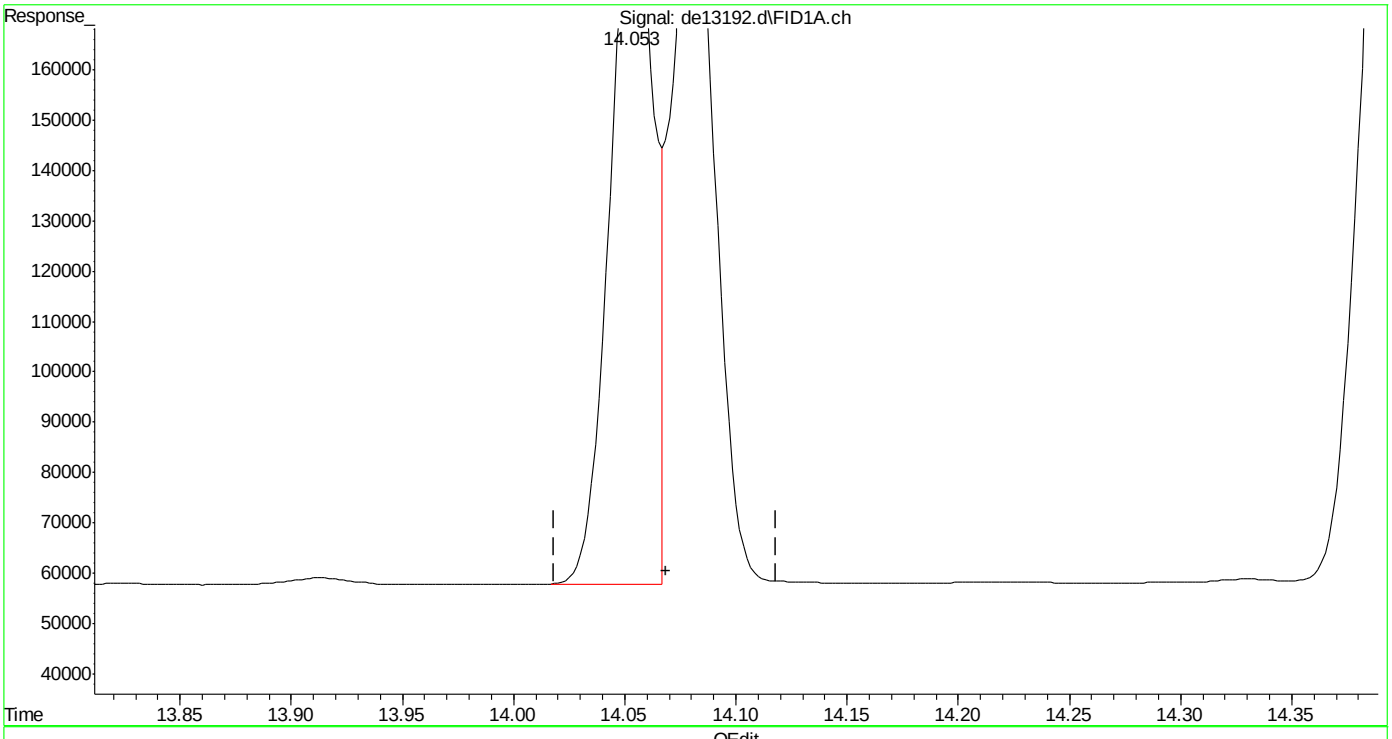
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.053min 1.943 µg/ml m
response 197572

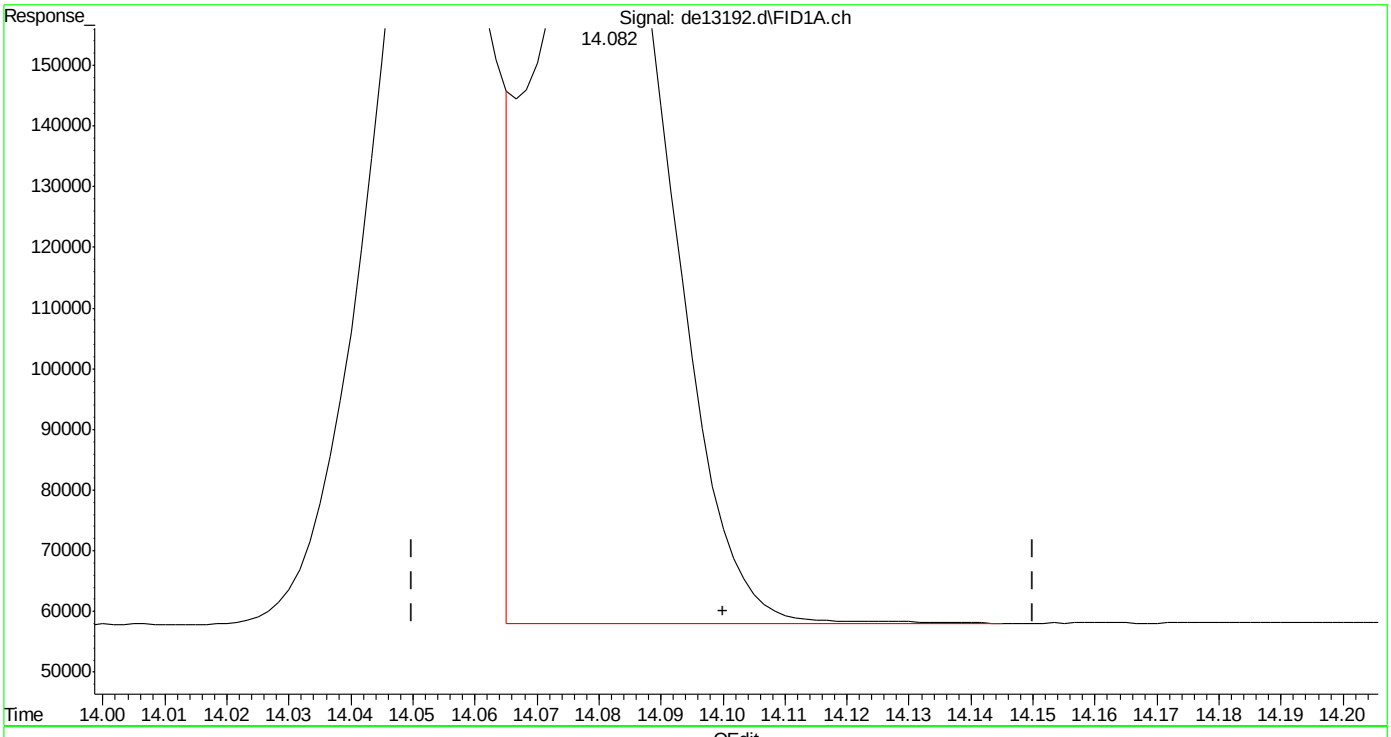
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.082min 2.077 µg/ml
response 202408

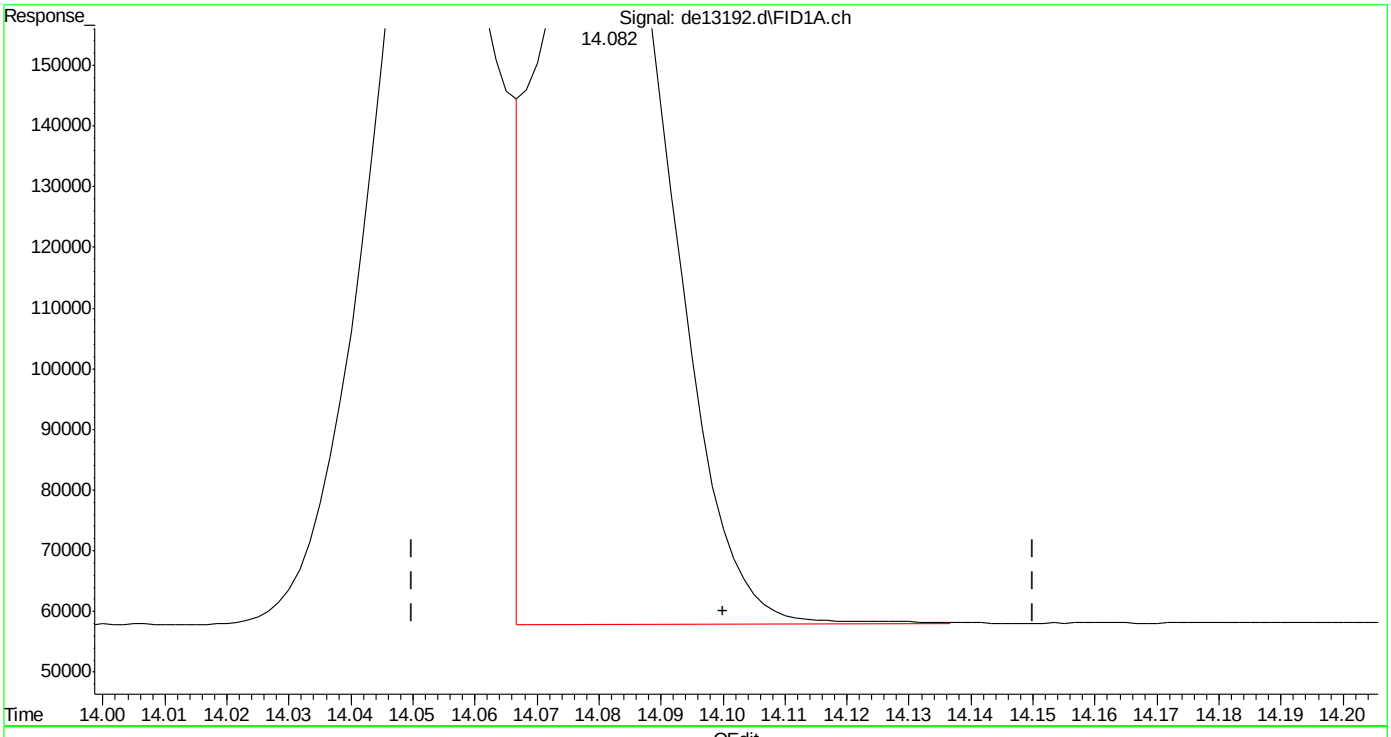
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.082min 1.989 µg/ml m
response 193855

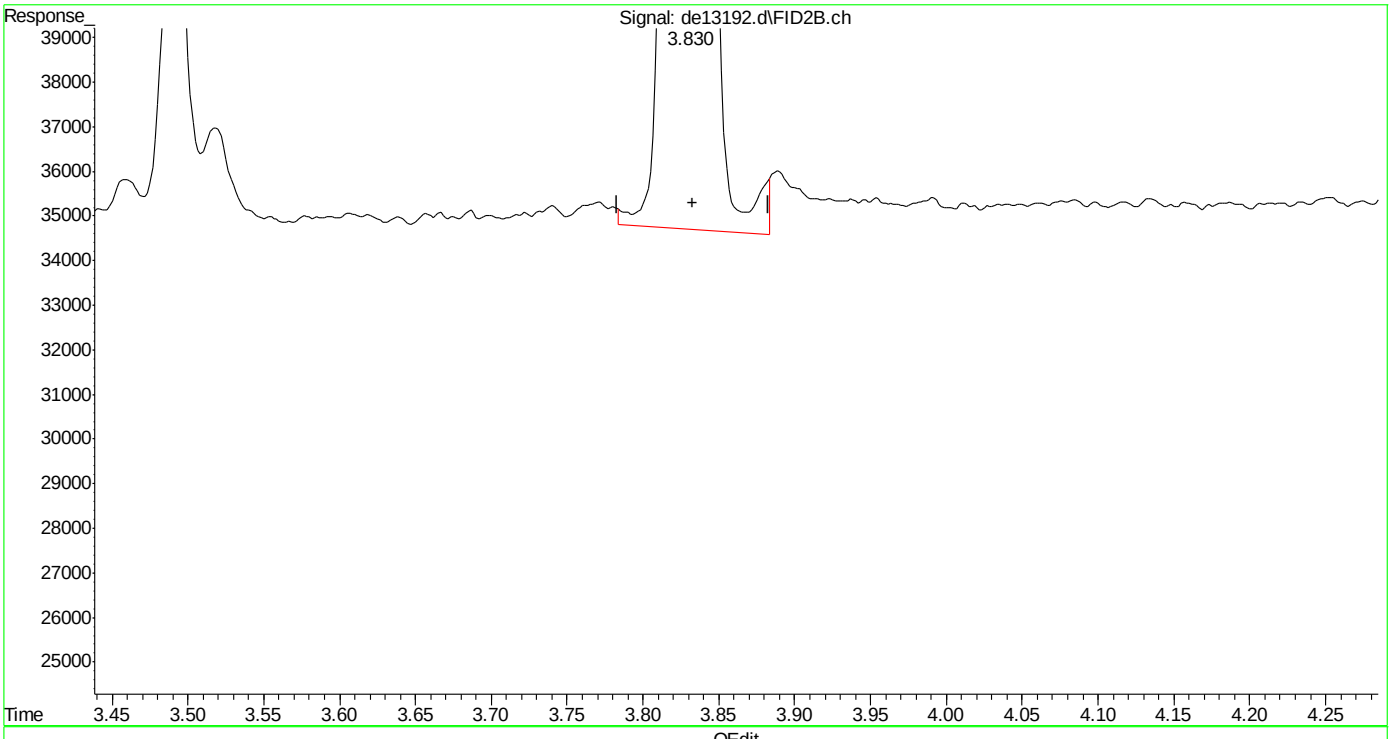
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.833min 2.166 µg/ml
response 160700

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:41:10 2016

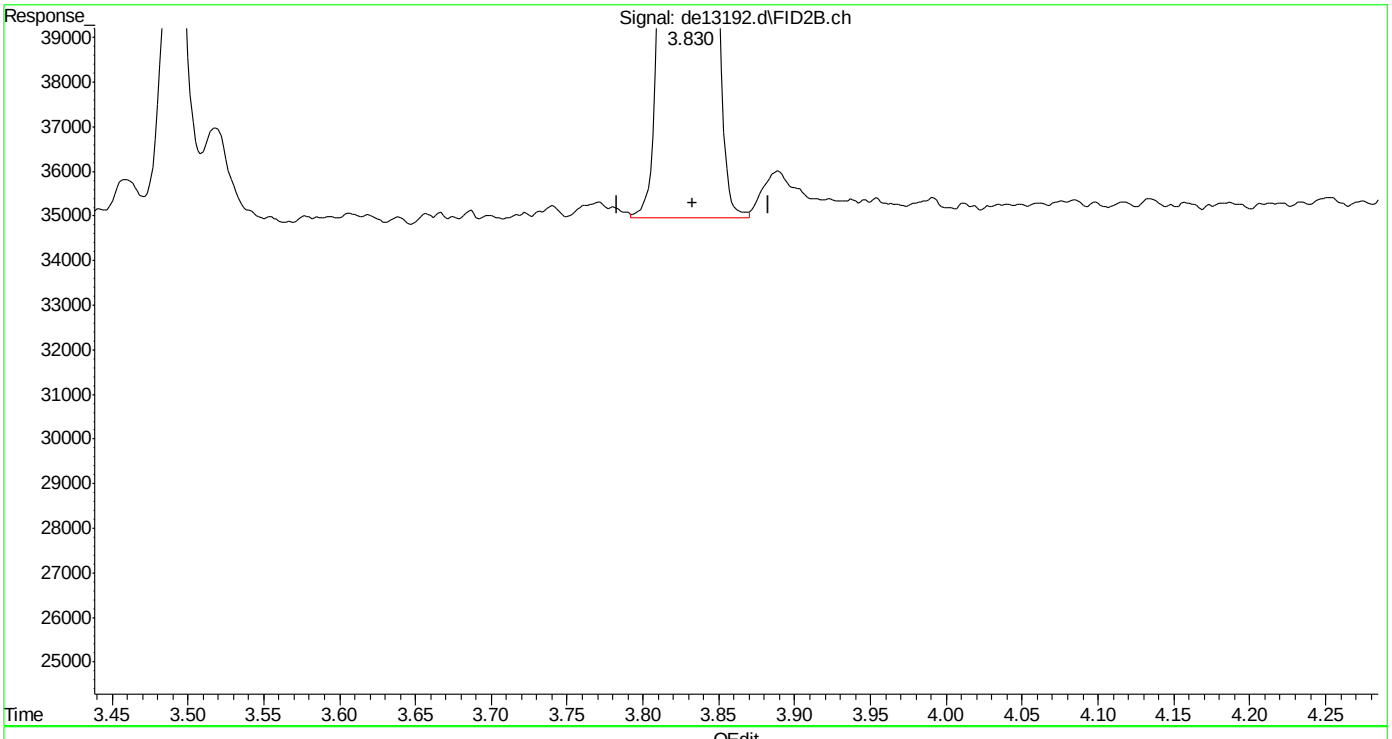
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(26) c-10 (h)
3.833min 2.139 µg/ml m
response 158649

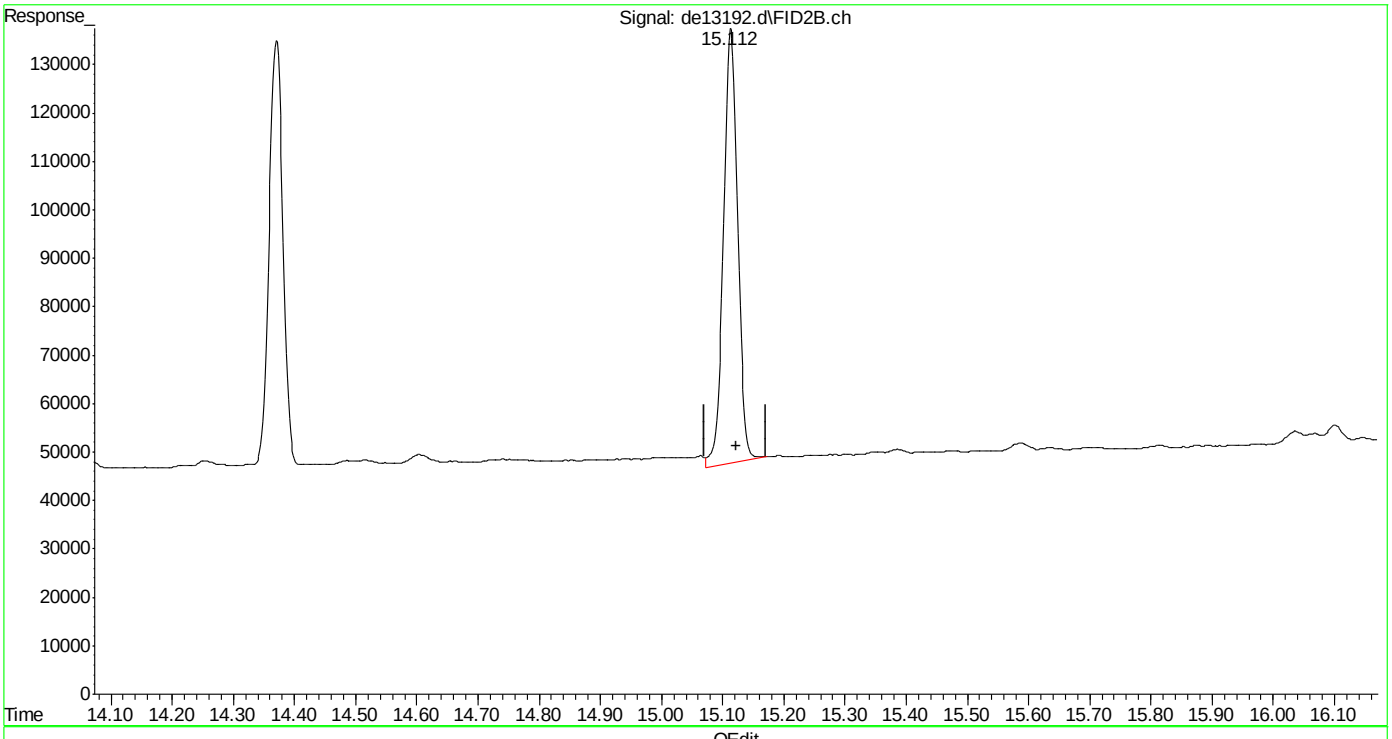
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 2.133 µg/ml
response 145740

(+) = Expected Retention Time

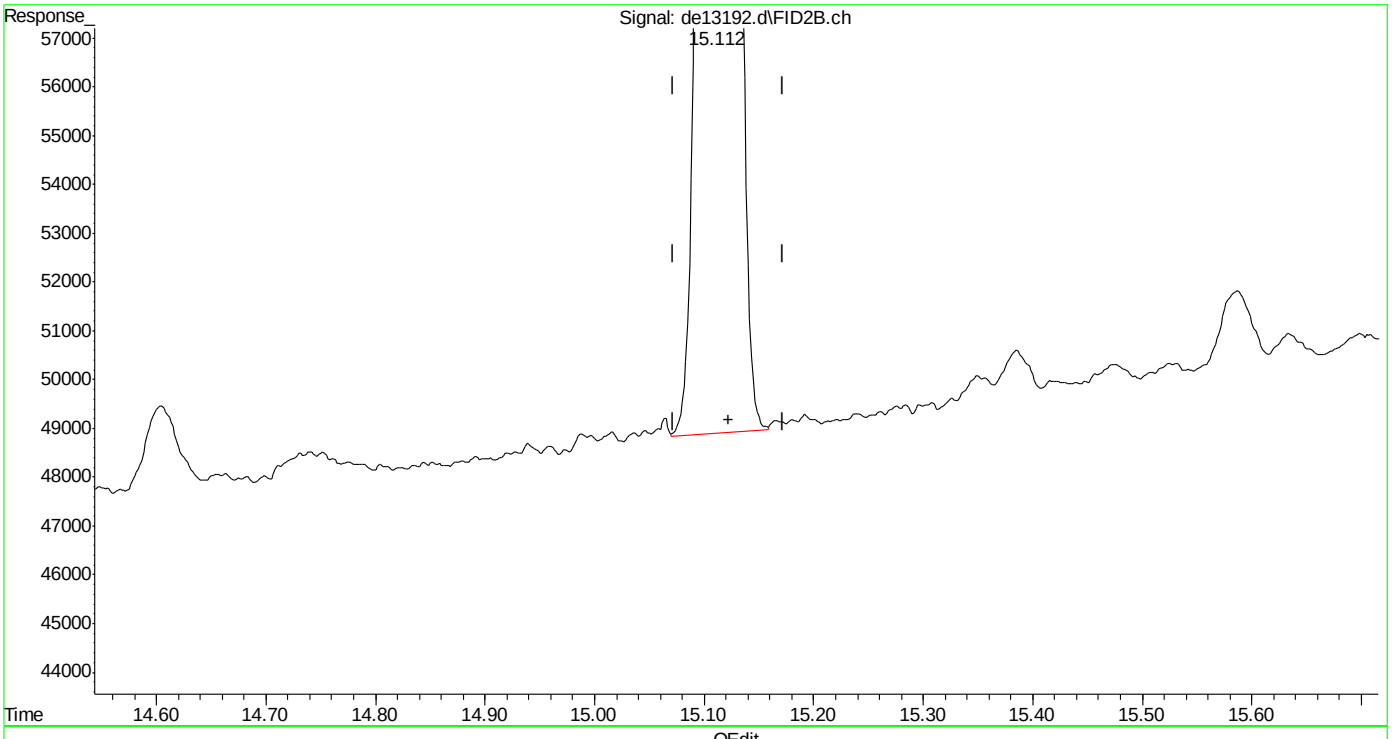
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 2.037 µg/ml m
response 139197

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:41:28 2016

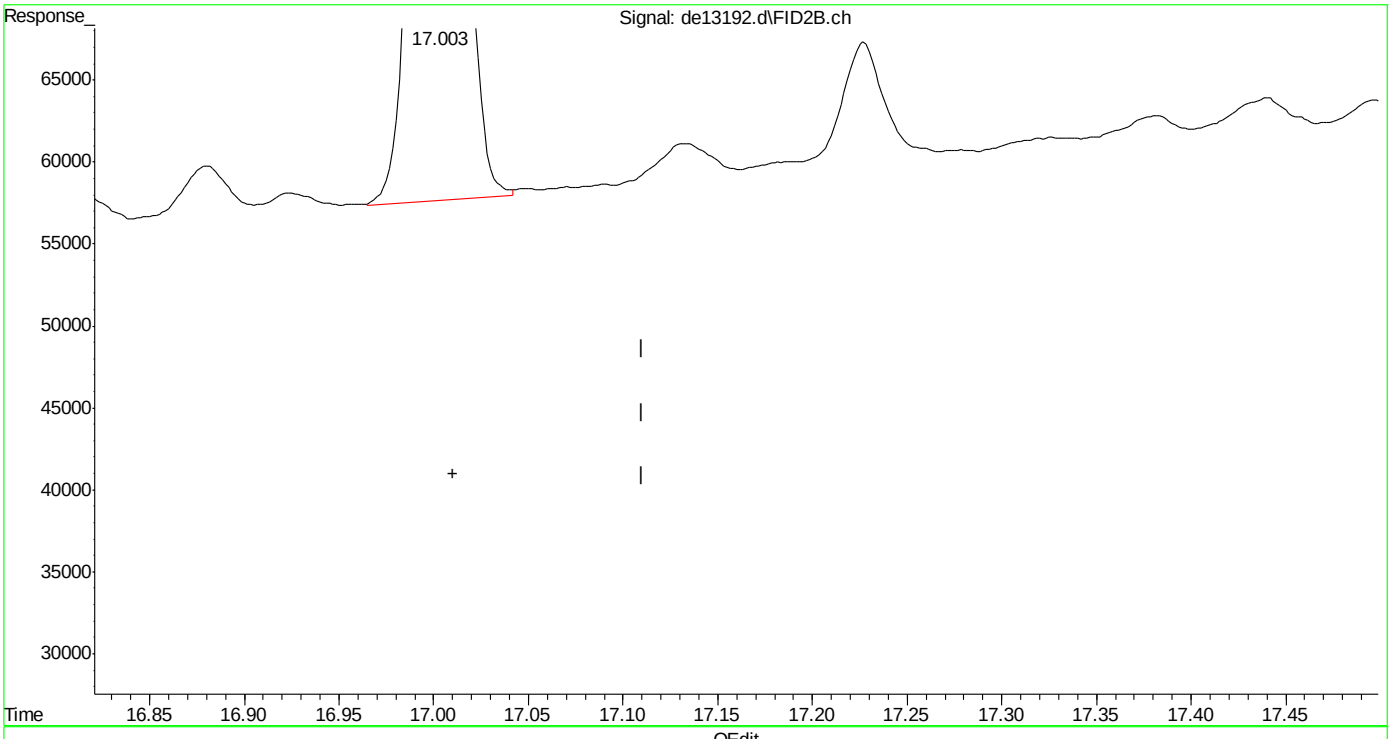
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(41) c-36 (h)
17.010min 1.930 µg/ml m
response 119416

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:41:37 2016

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	466222	4.822 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.11%		
6) s 2-bromonaphthalene	7.532	318410	4.852 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.26%		
11) s o-terphenyl	10.078	516185	4.888 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.44%		
35) s 1-chlorooctadecane	11.248	298238	5.342 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 26.71%		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	9069374	5.748 µg/mlm
2) naphthalene	5.352	522941	4.813 µg/ml
3) 2-methylnaphthalene	6.250	518620	4.819 µg/ml
5) acenaphthylene	7.367	513706	4.852 µg/ml
7) acenaphthene	7.608	524765	4.857 µg/ml
8) fluorene	8.252	515691	4.866 µg/ml
9) phenanthrene	9.435	514273	4.881 µg/ml
10) anthracene	9.492	492058	5.024 µg/ml
12) fluoranthene	10.942	501463	4.866 µg/ml
13) pyrene	11.200	505877	4.848 µg/ml
14) benzo(a)anthracene	12.762	484563	4.921 µg/mlm
15) chrysene	12.807	488834	4.923 µg/mlm
16) benzo(B)fluoranthene	14.055	499942	4.931 µg/mlm
17) benzo(k)fluoranthene	14.085	474469	4.875 µg/mlm
18) benzo(a)pyrene	14.390	464216	4.850 µg/ml
19) indeno(1,2,3-cd)pyrene	15.525	472235	4.822 µg/mlm
20) dibenzo(ah)anthracene	15.572	466623	4.975 µg/mlm
21) benzo(ghi)perylene	15.745	463653	4.908 µg/ml
25) h c-9	2.680	396890	5.301 µg/mlm
26) h c-10	3.833	401630	5.322 µg/ml
27) naphthalene #2	5.510	427200	5.413 µg/ml
28) c-12	5.685	398273	5.304 µg/ml
29) 2-methylnaphthalene #2	6.403	429906	5.303 µg/ml
30) c-14	7.202	396429	5.271 µg/ml
31) c-16	8.532	389860	5.199 µg/ml
32) c-18	9.725	383929	5.164 µg/ml
33) c-19	10.282	381074	5.280 µg/ml
34) c-20	10.812	369620	5.213 µg/ml
36) c-22	11.808	364434	5.218 µg/ml
37) c-24	12.727	339349	5.097 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc Units
38)		c-26	13.578	359561	5.194 µg/ml
39)		c-28	14.372	345810	5.152 µg/ml
40)	h	c-30	15.122	345750	5.036 µg/mlm
41)	h	c-36	17.010	300895	4.906 µg/mlm

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

9.5.3

9

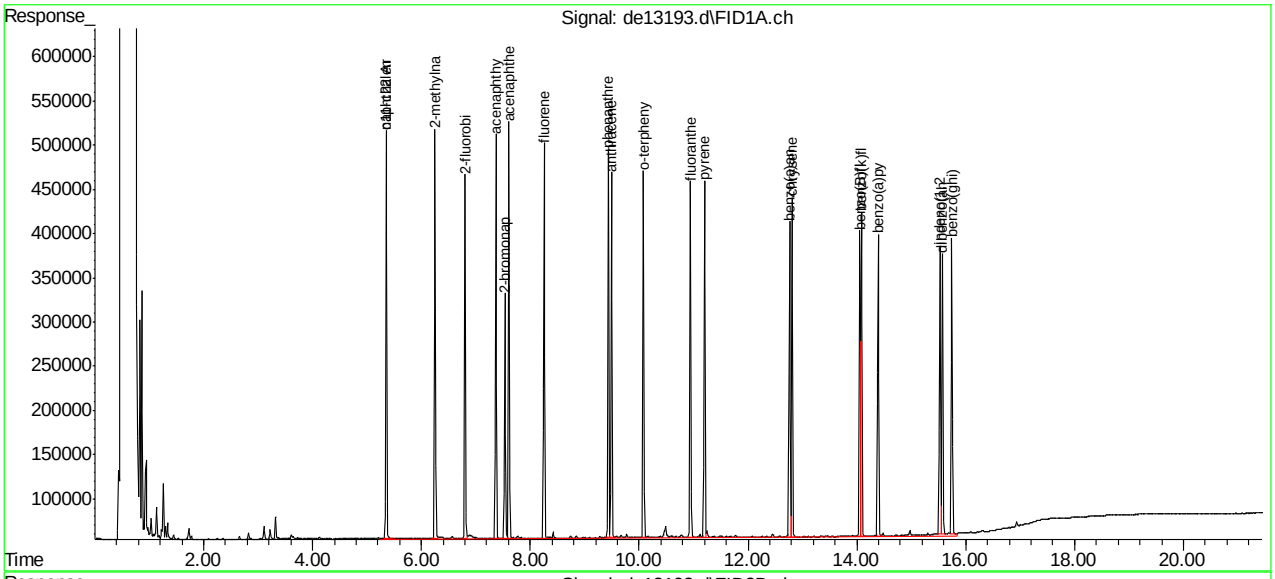
SGS ACCUTEST MC45897

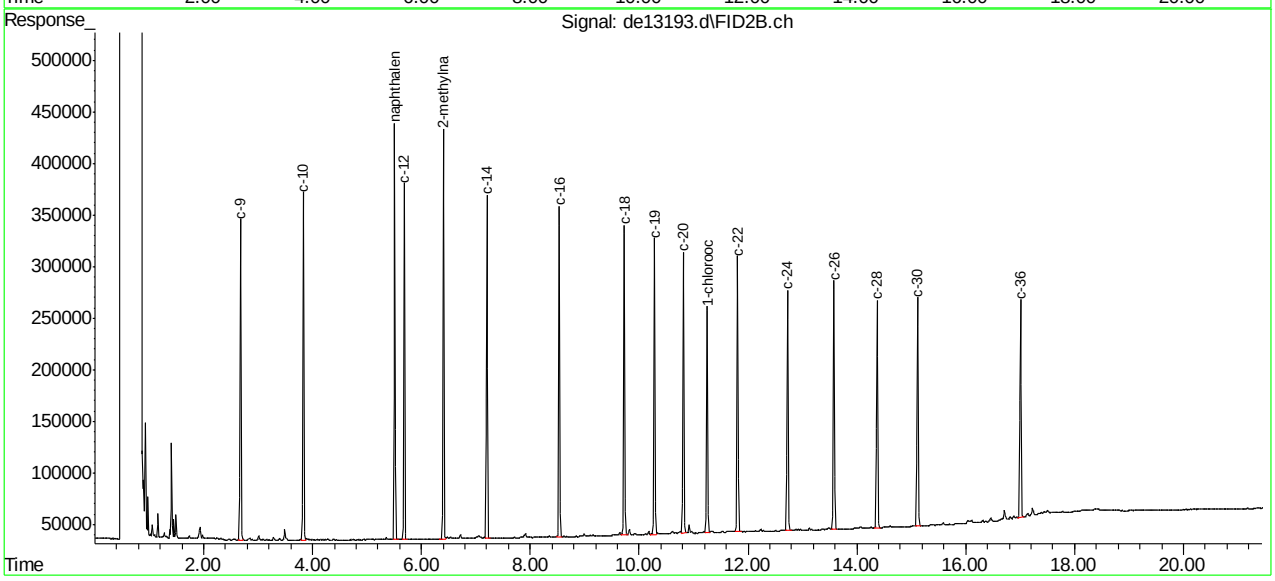
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

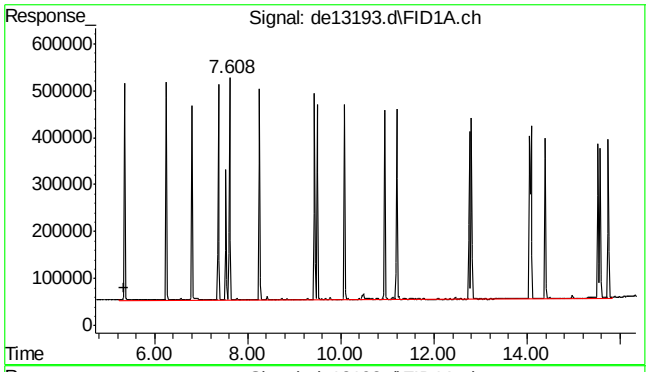
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



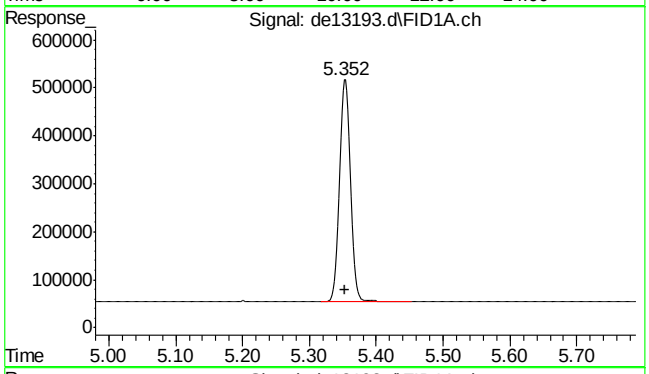


SGS ACCUTEST MC45897



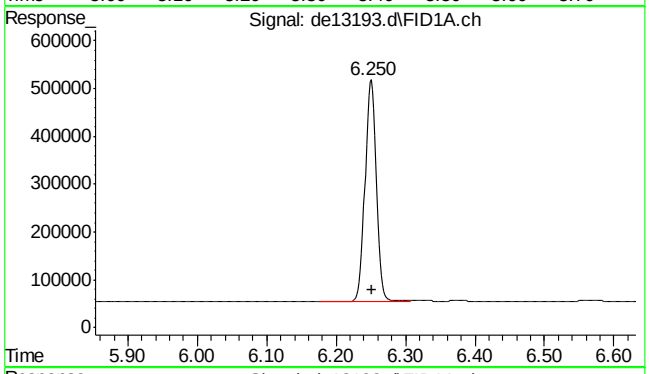
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 9069374
Conc: 5.75 µg/ml m



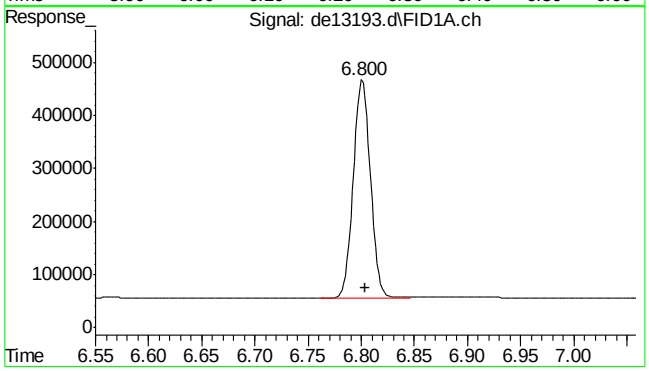
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 522941
Conc: 4.81 µg/ml



#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 518620
Conc: 4.82 µg/ml



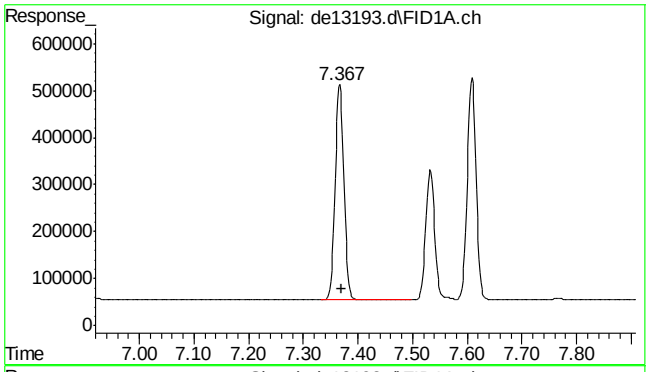
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 466222
Conc: 4.82 µg/ml

9.5.3

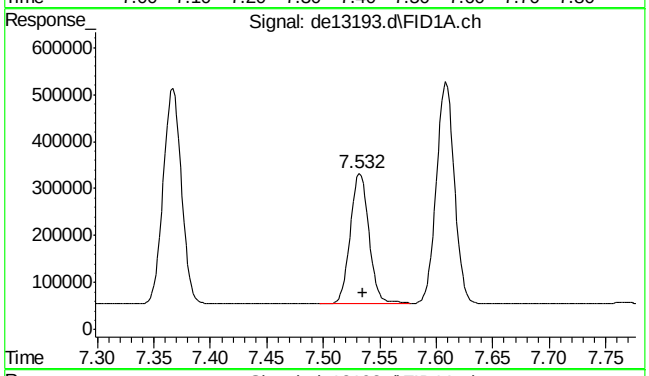
9

SGS ACCUTEST MC45897



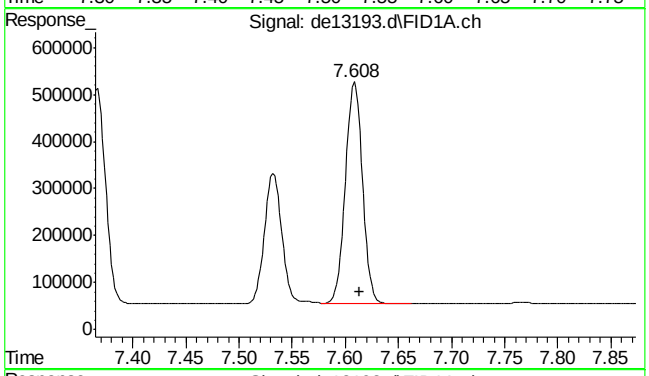
#5 acenaphthylene

R.T.: 7.367 min
Delta R.T.: -0.003 min
Response: 513706
Conc: 4.85 µg/ml



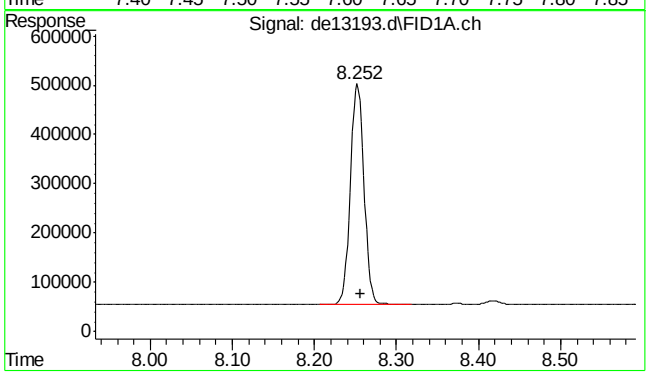
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 318410
Conc: 4.85 µg/ml



#7 acenaphthene

R.T.: 7.608 min
Delta R.T.: -0.005 min
Response: 524765
Conc: 4.86 µg/ml



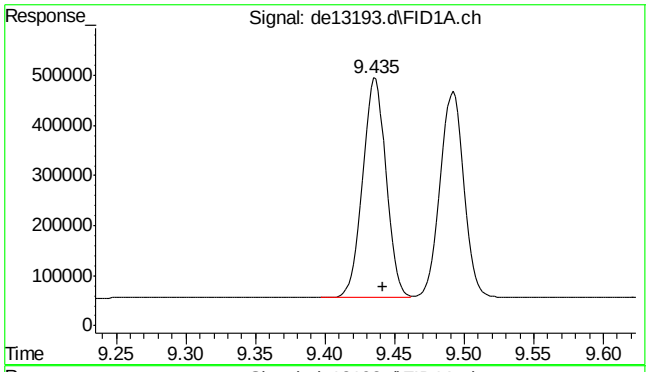
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 515691
Conc: 4.87 µg/ml

9.5.3

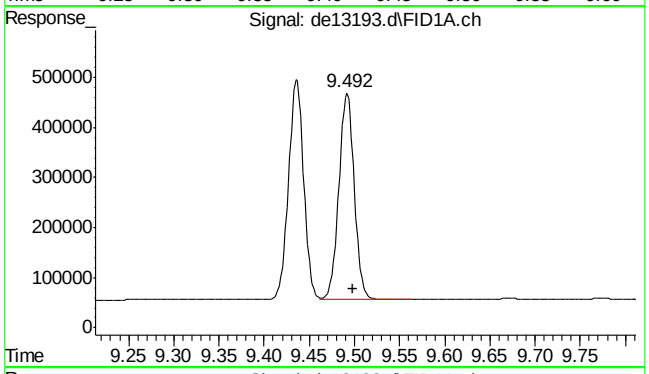
9

SGS ACCUTEST MC45897



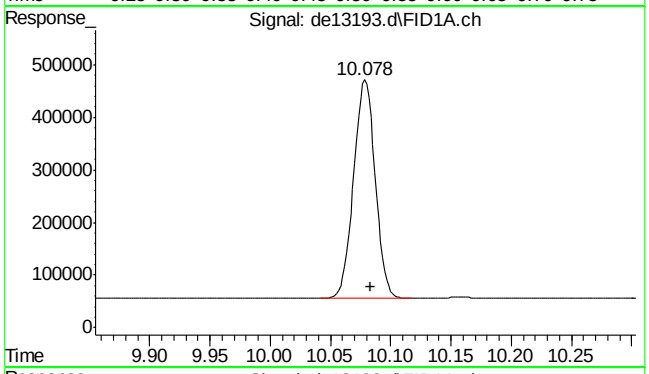
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 514273
Conc: 4.88 µg/ml



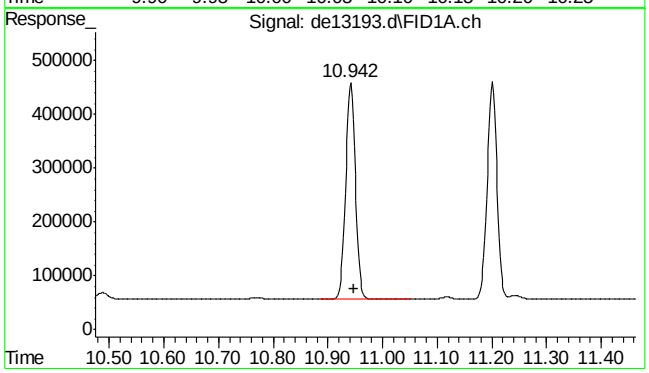
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 492058
Conc: 5.02 µg/ml



#11 o-terphenyl

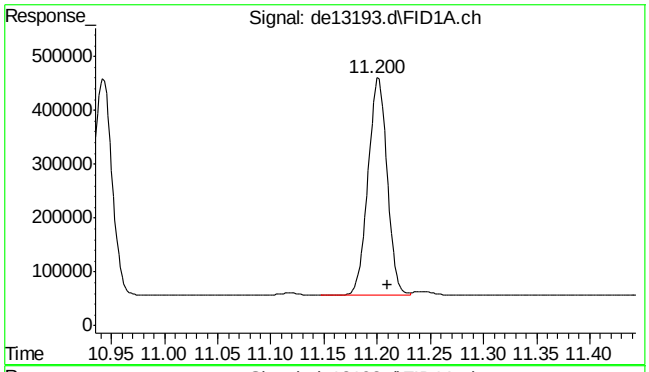
R.T.: 10.078 min
Delta R.T.: -0.005 min
Response: 516185
Conc: 4.89 µg/ml



#12 fluoranthene

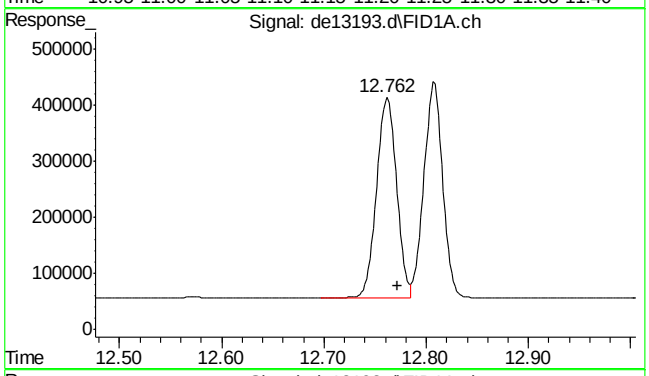
R.T.: 10.942 min
Delta R.T.: -0.007 min
Response: 501463
Conc: 4.87 µg/ml

SGS ACCUTEST MC45897



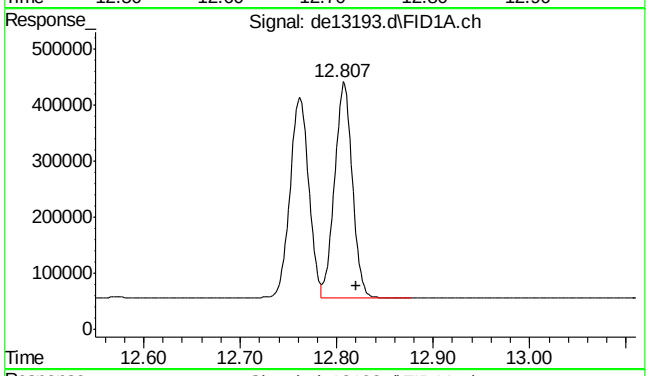
#13 pyrene

R.T.: 11.200 min
Delta R.T.: -0.010 min
Response: 505877
Conc: 4.85 µg/ml



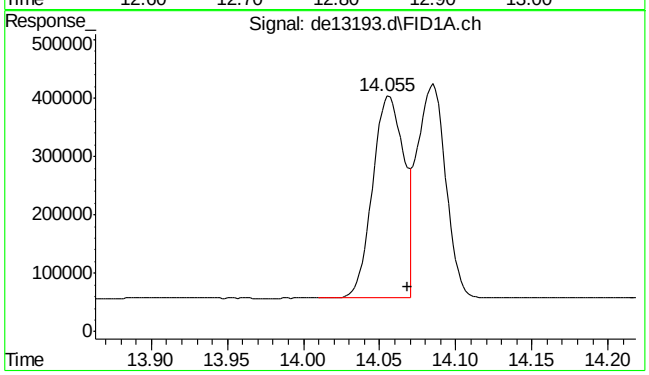
#14 benzo(a)anthracene

R.T.: 12.762 min
Delta R.T.: -0.010 min
Response: 484563
Conc: 4.92 µg/ml m



#15 chrysene

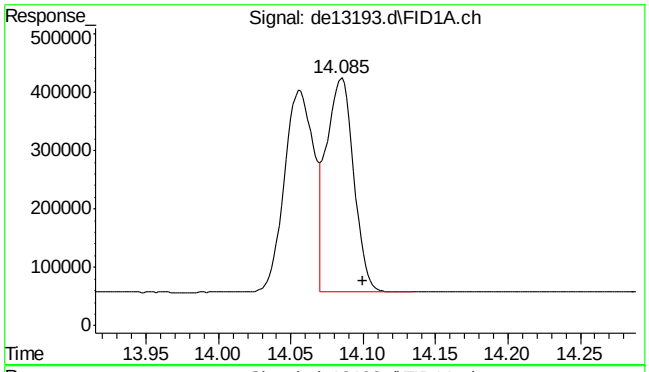
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 488834
Conc: 4.92 µg/ml m



#16 benzo(B)fluoranthene

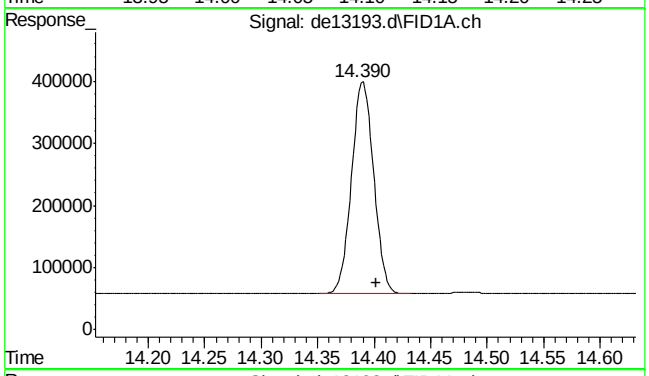
R.T.: 14.055 min
Delta R.T.: -0.013 min
Response: 499942
Conc: 4.93 µg/ml m

SGS ACCUTEST MC45897



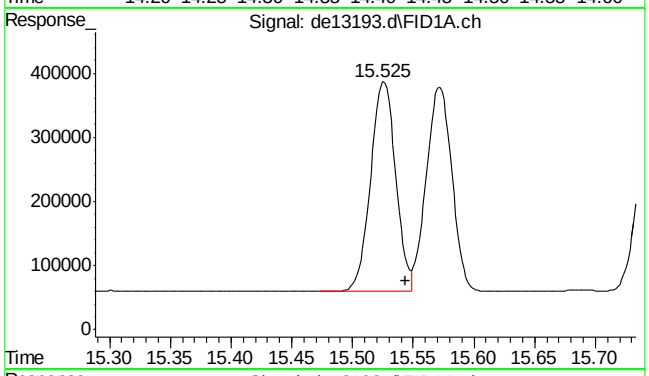
#17 benzo(k)fluoranthene

R.T.: 14.085 min
Delta R.T.: -0.015 min
Response: 474469
Conc: 4.88 µg/ml m



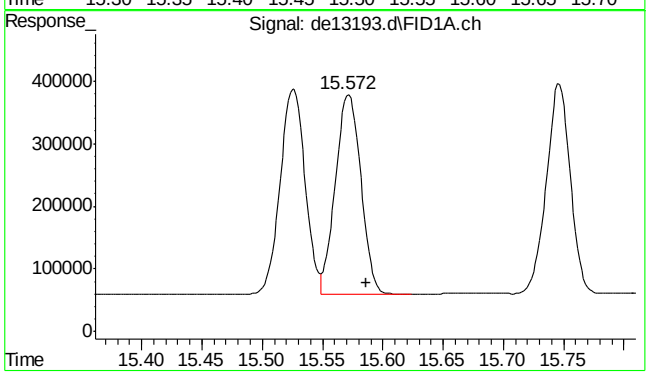
#18 benzo(a)pyrene

R.T.: 14.390 min
Delta R.T.: -0.012 min
Response: 464216
Conc: 4.85 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.525 min
Delta R.T.: -0.018 min
Response: 472235
Conc: 4.82 µg/ml m



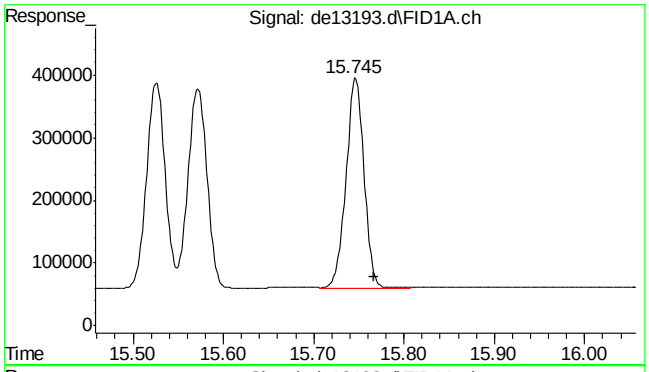
#20 dibenzo(ah)anthracene

R.T.: 15.572 min
Delta R.T.: -0.015 min
Response: 466623
Conc: 4.97 µg/ml m

9.5.3

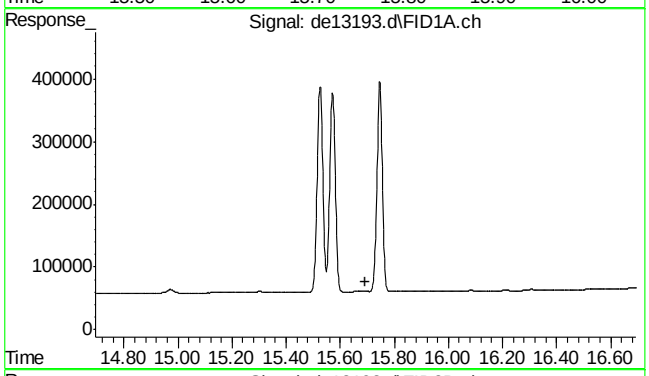
9

SGS ACCUTEST MC45897



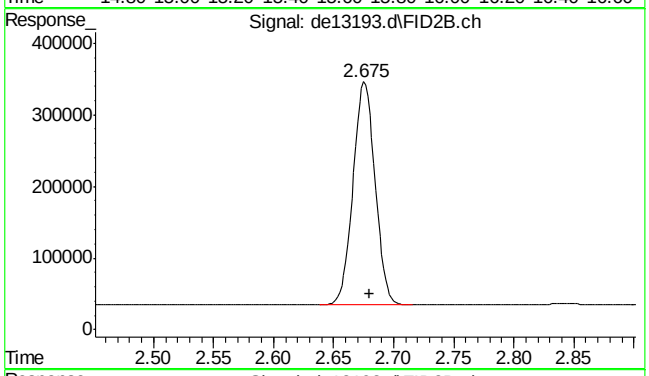
#21 benzo(ghi)perylene

R.T.: 15.745 min
Delta R.T.: -0.022 min
Response: 463653
Conc: 4.91 µg/ml



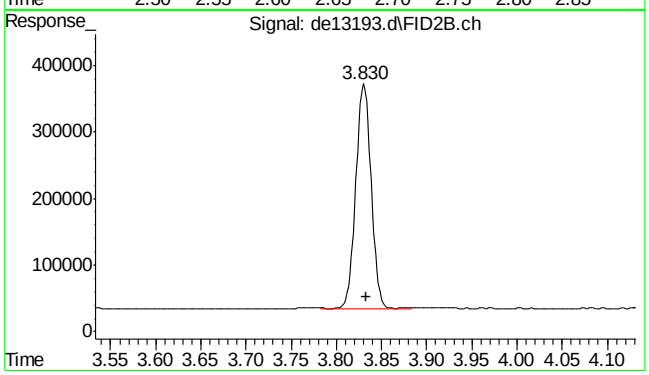
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

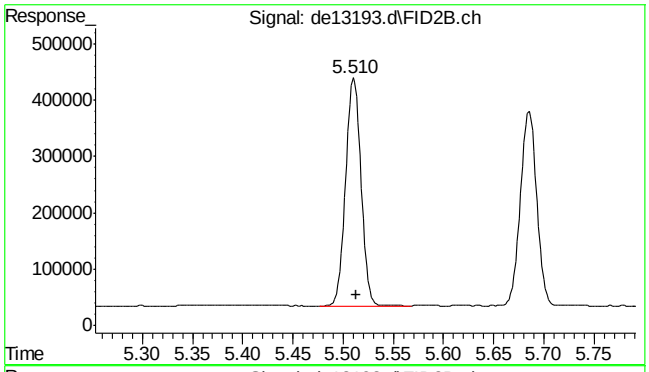
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 396890
Conc: 5.30 µg/ml m



#26 c-10

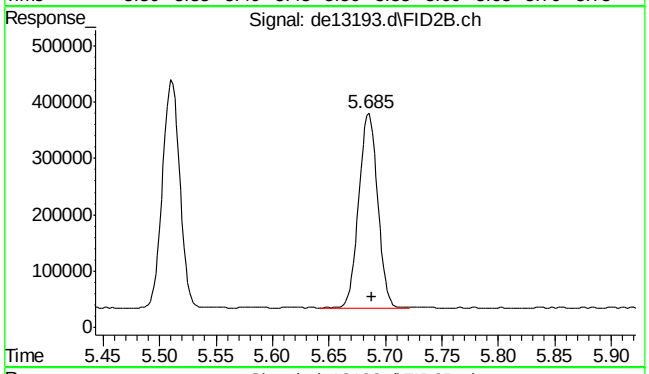
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 401630
Conc: 5.32 µg/ml

SGS ACCUTEST MC45897



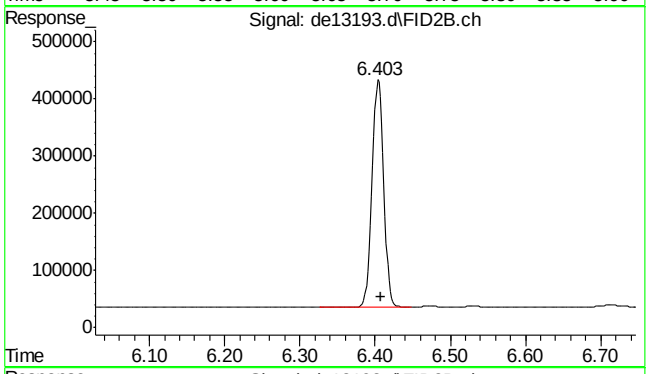
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 427200
Conc: 5.41 µg/ml



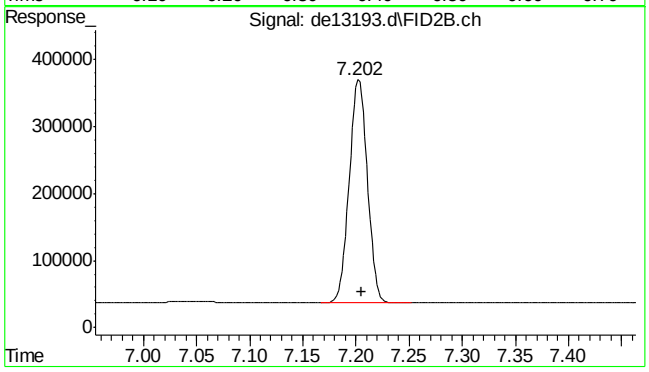
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 398273
Conc: 5.30 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 429906
Conc: 5.30 µg/ml



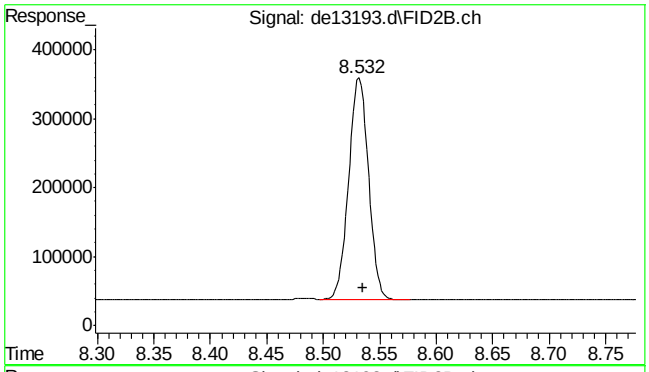
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 396429
Conc: 5.27 µg/ml

9.5.3

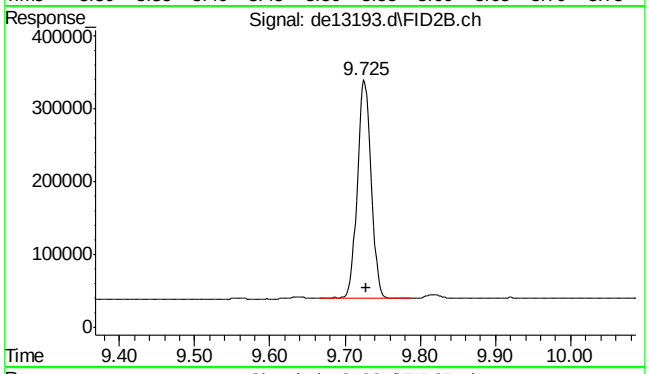
9

SGS ACCUTEST MC45897



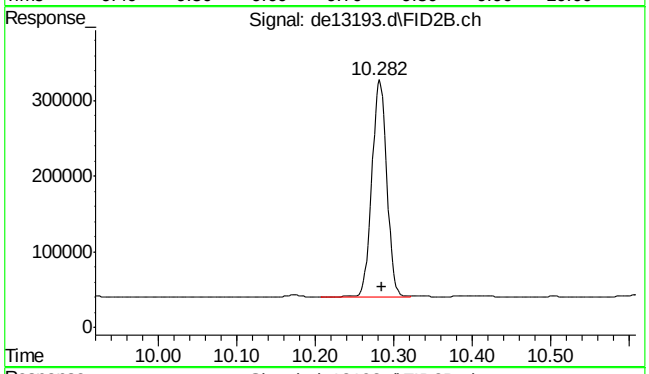
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 389860
Conc: 5.20 µg/ml



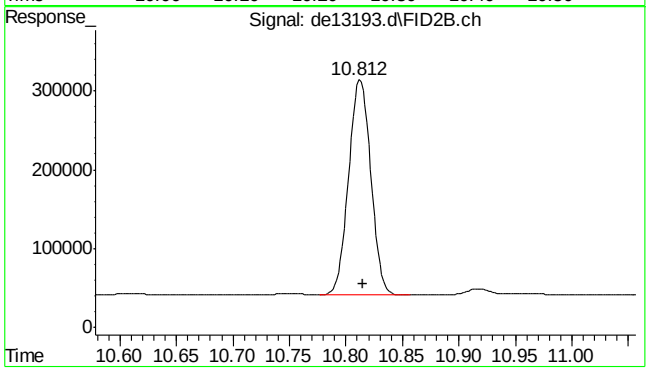
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 383929
Conc: 5.16 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 381074
Conc: 5.28 µg/ml



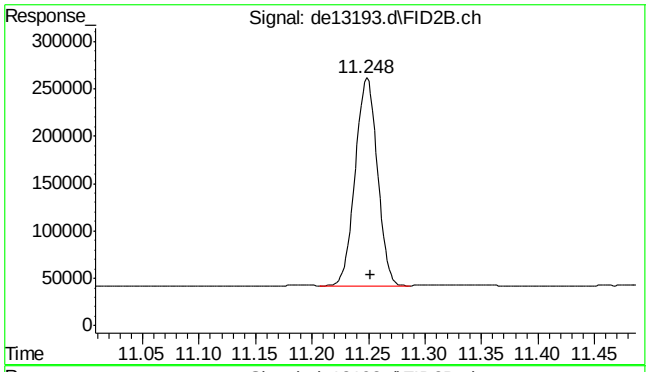
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 369620
Conc: 5.21 µg/ml

9.5.3

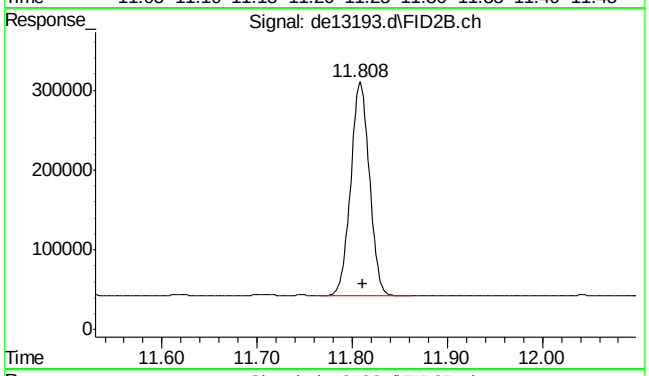
9

SGS ACCUTEST MC45897



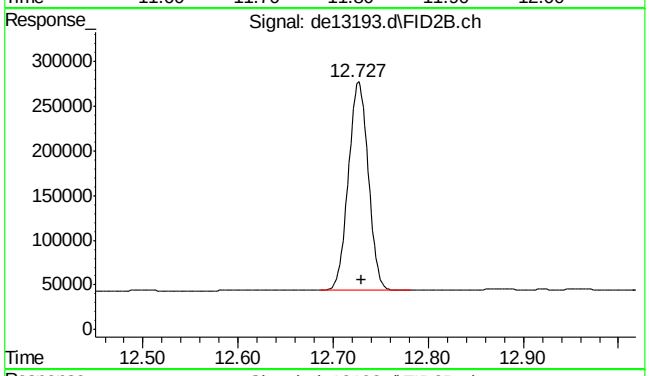
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 298238
Conc: 5.34 µg/ml



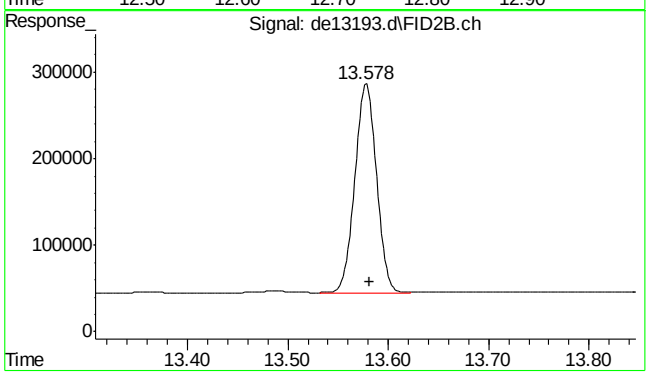
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 364434
Conc: 5.22 µg/ml



#37 c-24

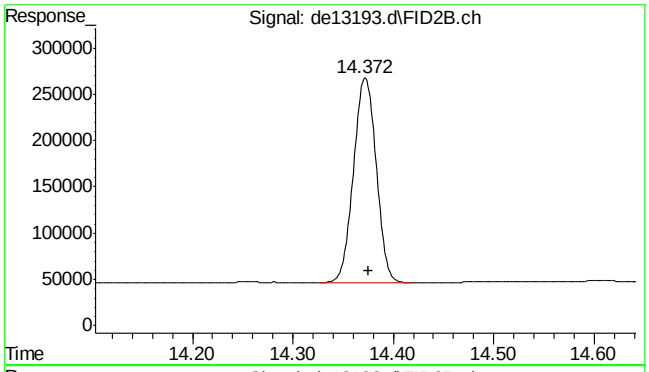
R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 339349
Conc: 5.10 µg/ml



#38 c-26

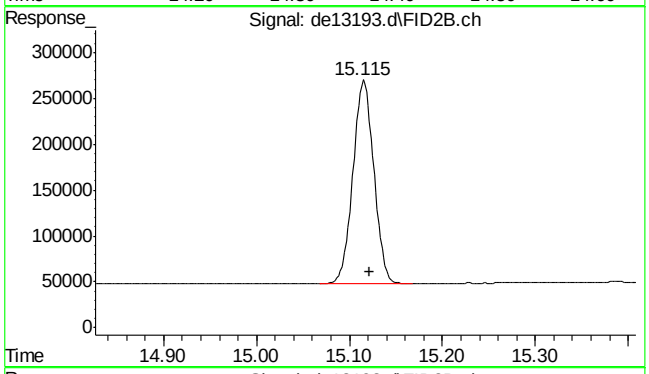
R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 359561
Conc: 5.19 µg/ml

SGS ACCUTEST MC45897



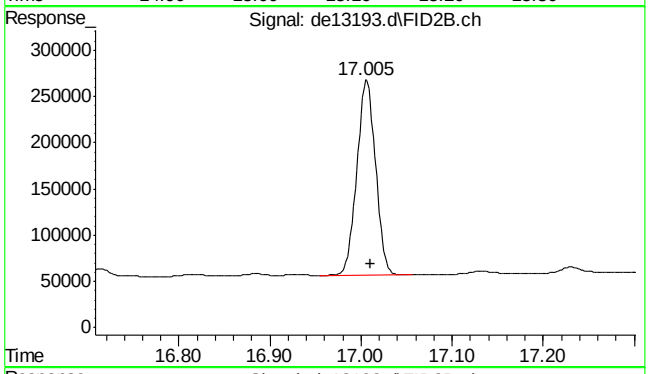
#39 c-28

R.T.: 14.372 min
Delta R.T.: -0.003 min
Response: 345810
Conc: 5.15 µg/ml



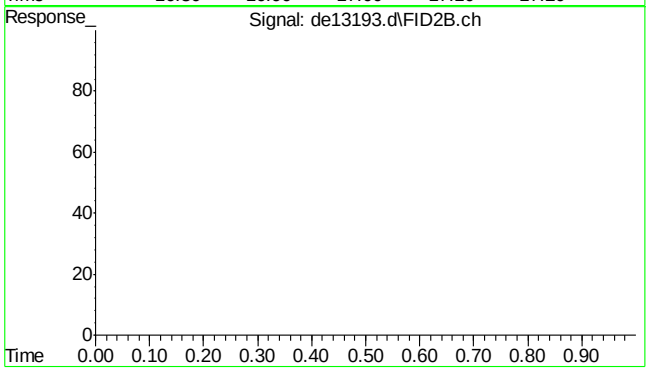
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 345750
Conc: 5.04 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 300895
Conc: 4.91 µg/ml m



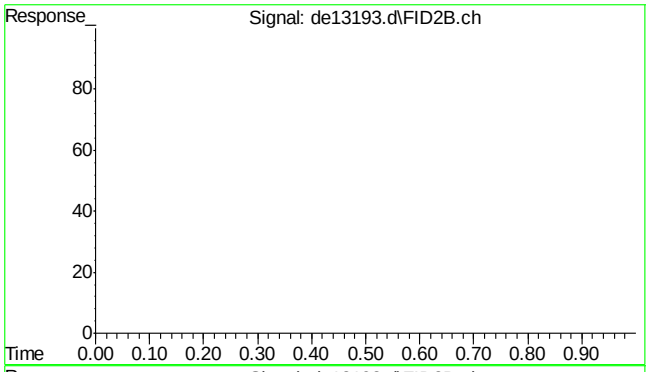
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.3

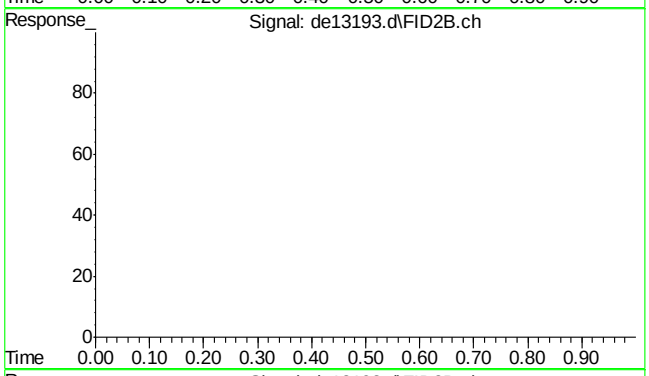
9

SGS ACCUTEST MC45897



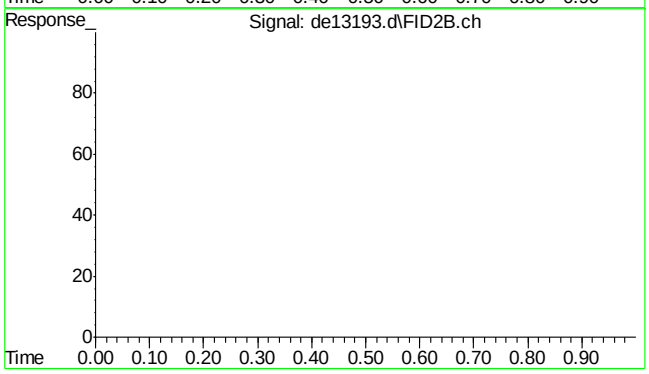
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

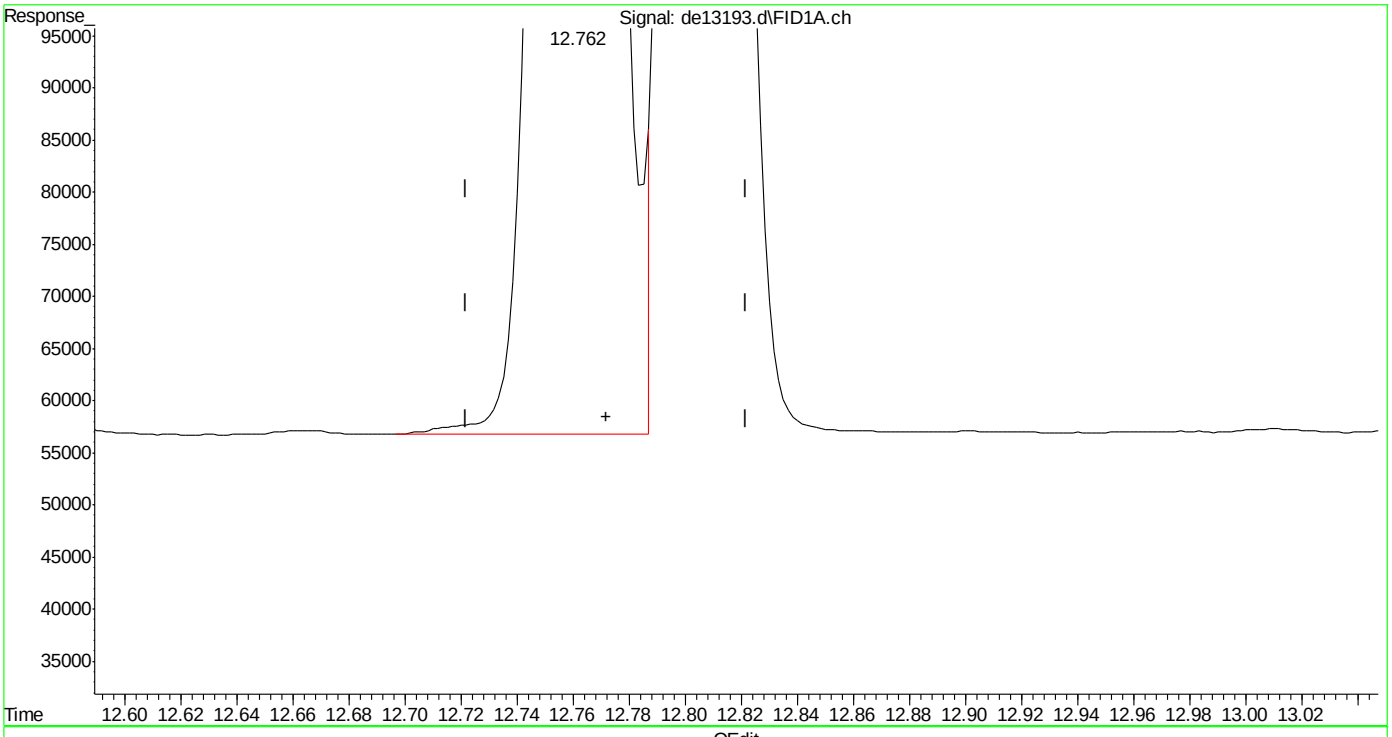
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.762min 4.949 µg/ml
response 487331

(+) = Expected Retention Time

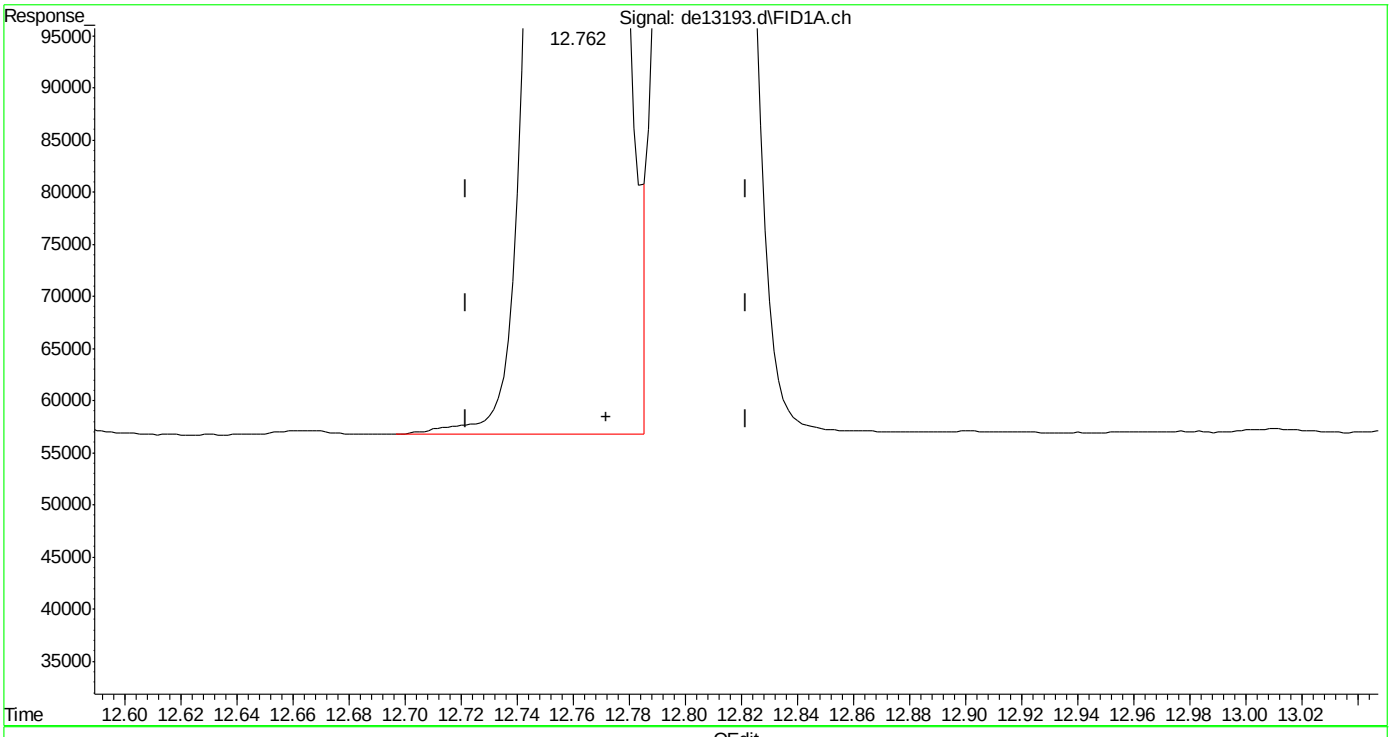
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.762min 4.921 µg/ml m
response 484563

(+) = Expected Retention Time

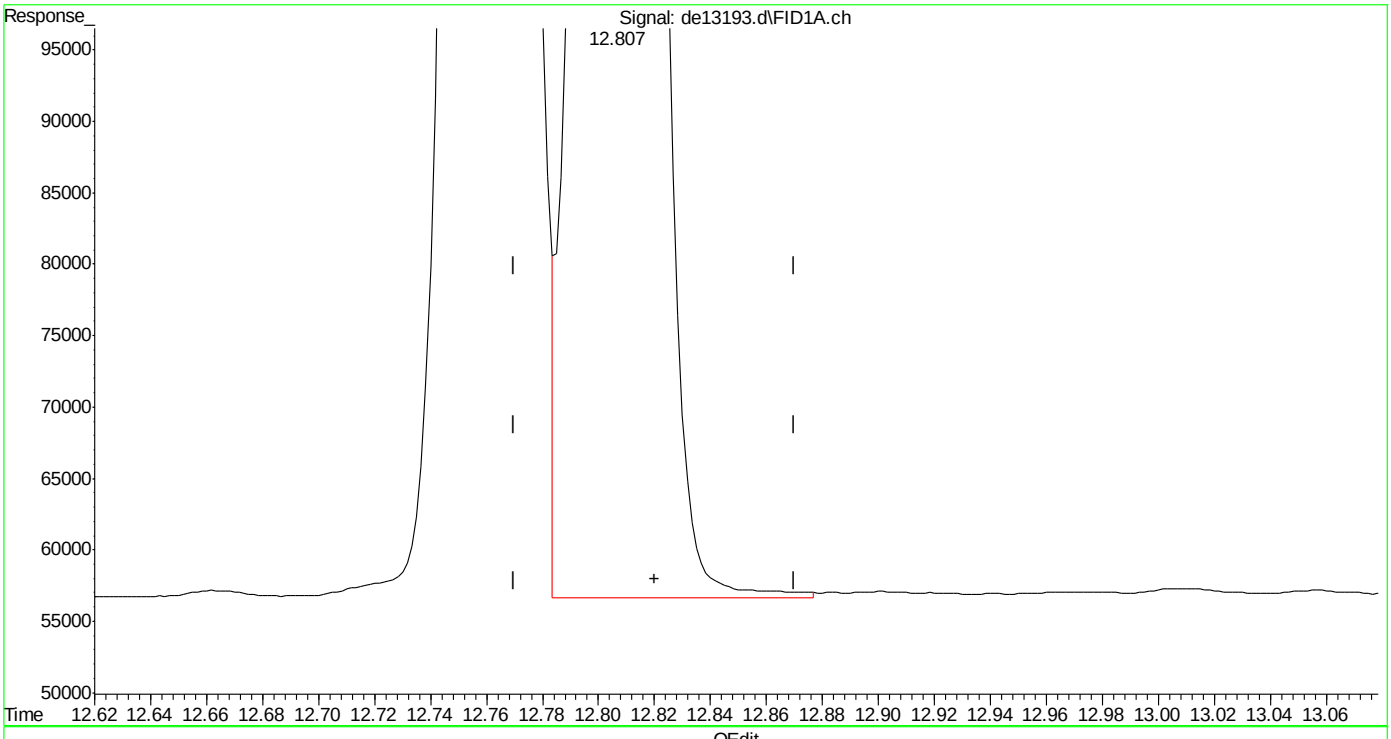
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.807min 4.923 µg/ml m
response 488834

(+) = Expected Retention Time

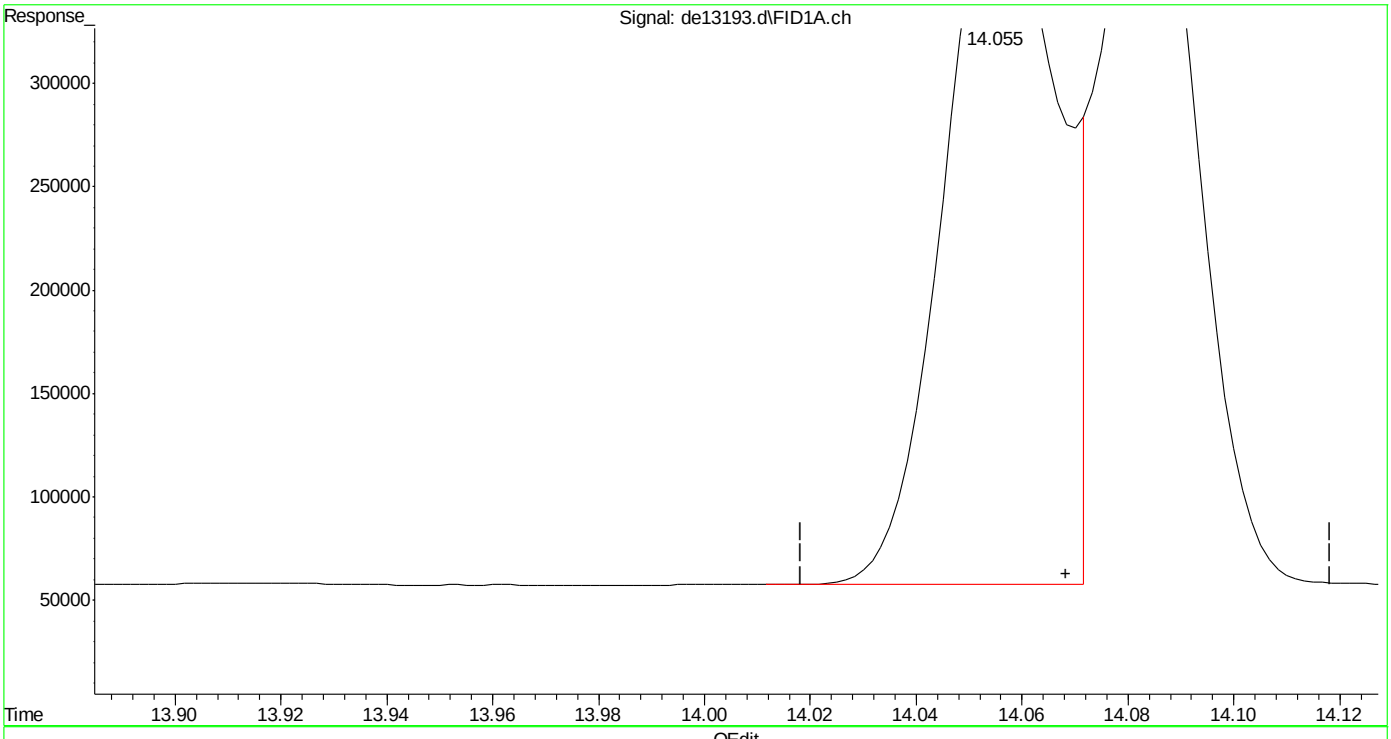
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  4 Feb 2016   5:03 pm
Operator  : thomasa
Sample    : ic735-5
Misc      : op46227,gde735,1000,,,2,,w
ALS Vial  : 6   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title  : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(16) benzo(B)fluoranthene

14.055min 5.155 µg/ml

response 522606

(+) = Expected Retention Time

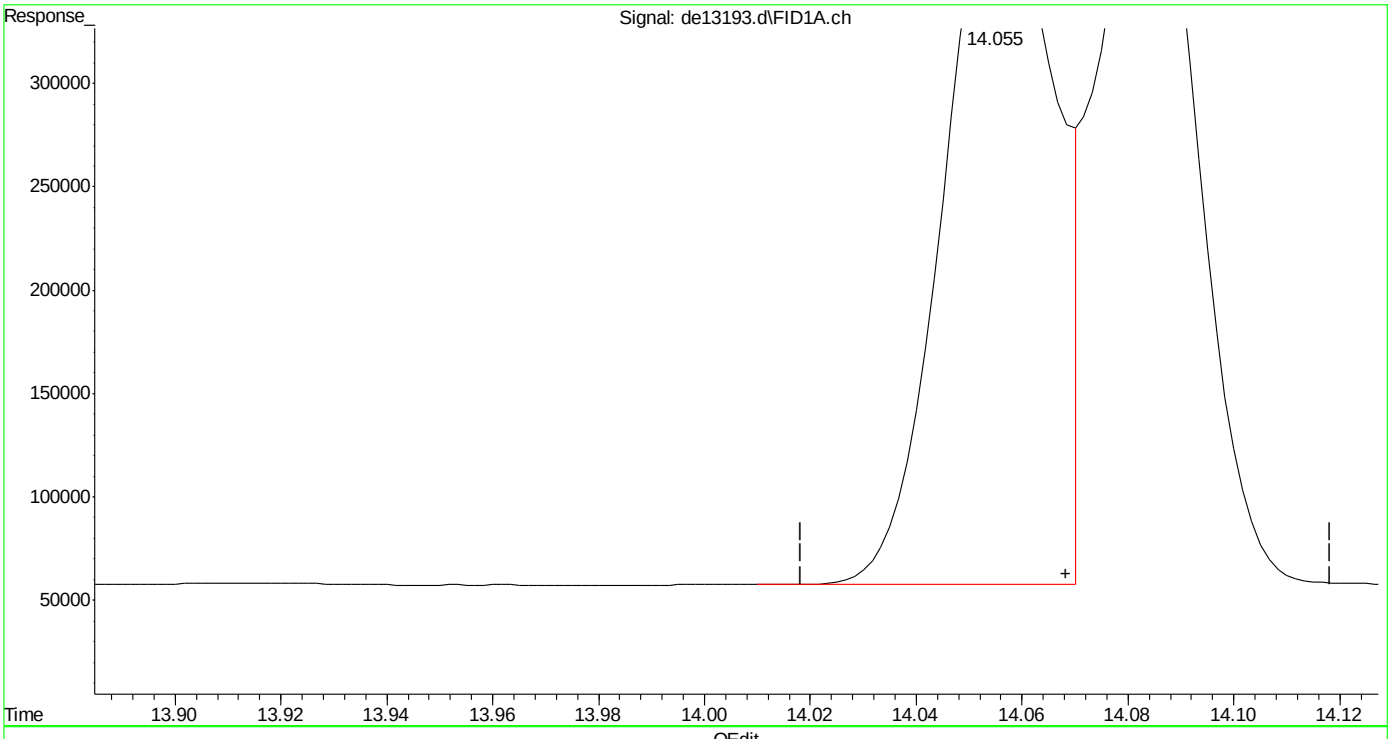
EPH160204M.M Fri Feb 05 10:43:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.055min 4.931 µg/ml m
response 499942

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:57 2016

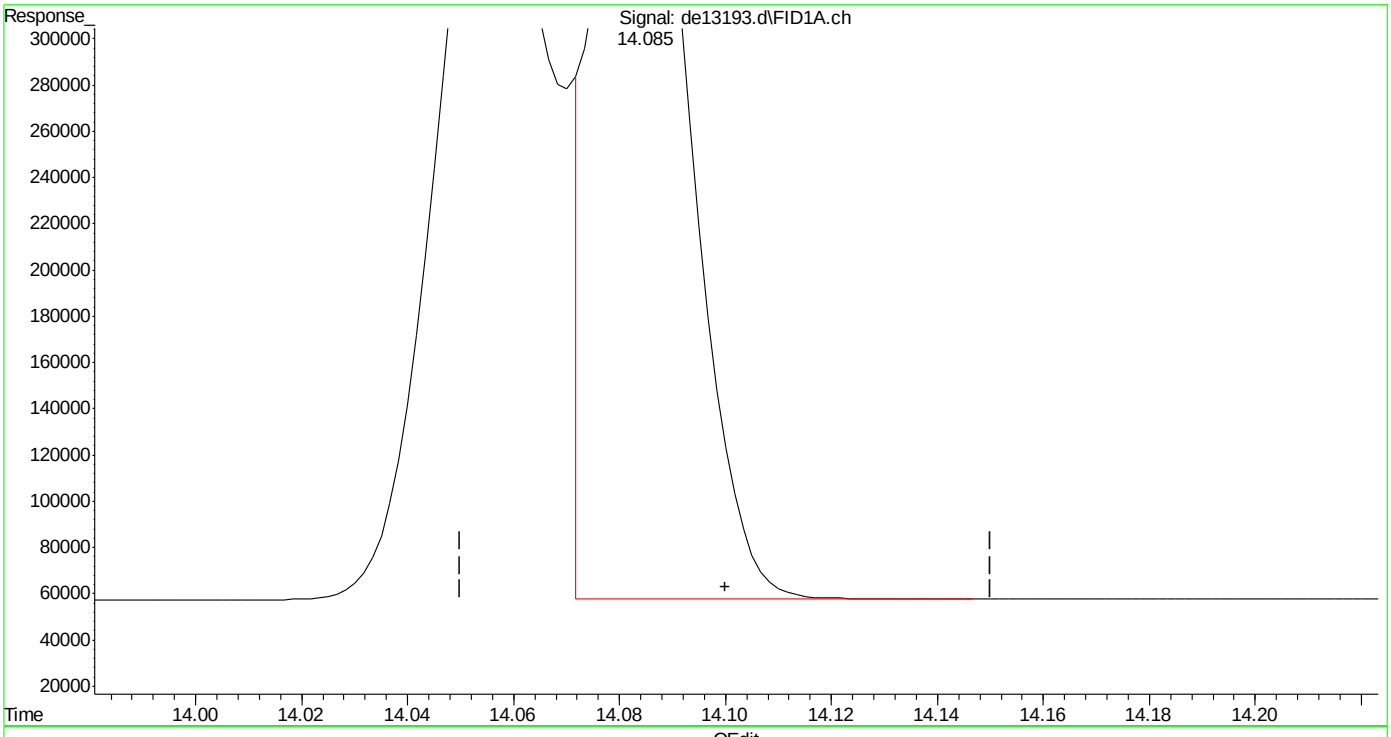
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.085min 4.636 µg/ml
response 451155

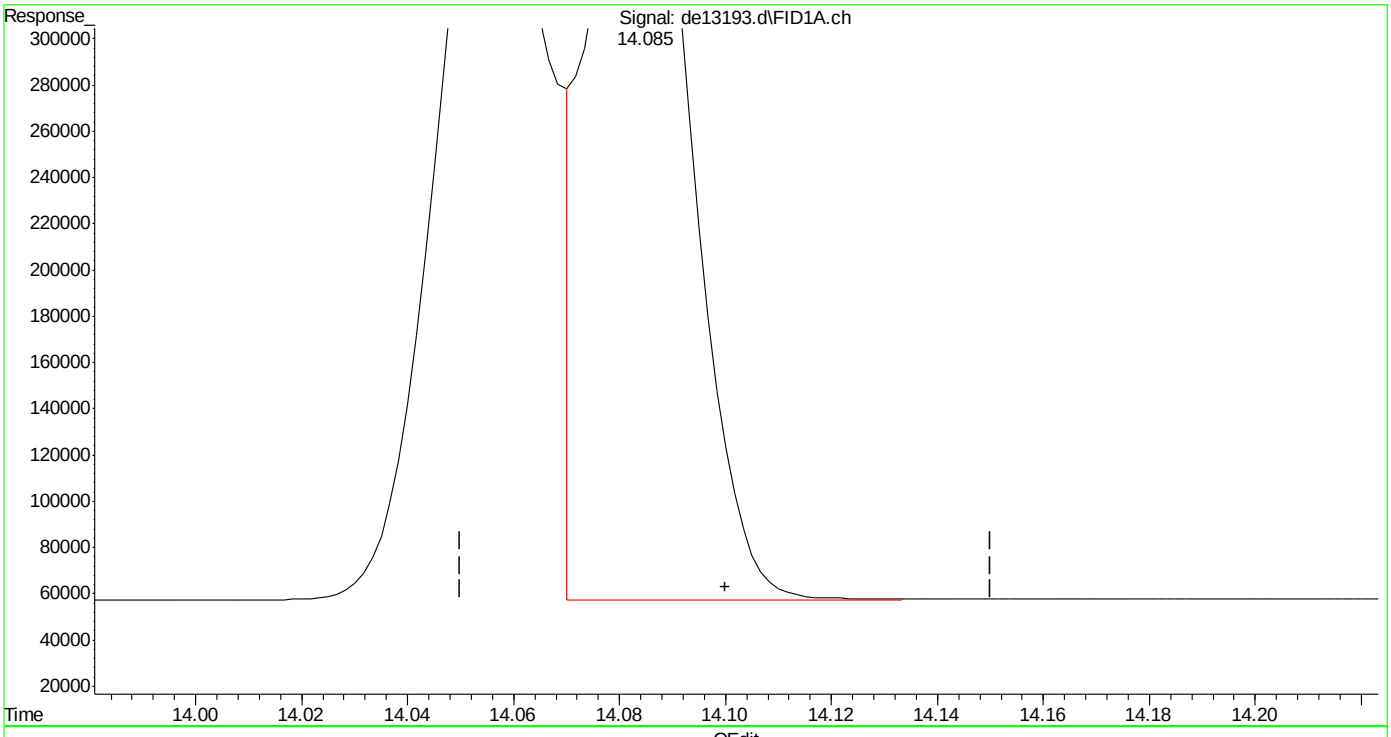
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.085min 4.875 µg/ml m
response 474469

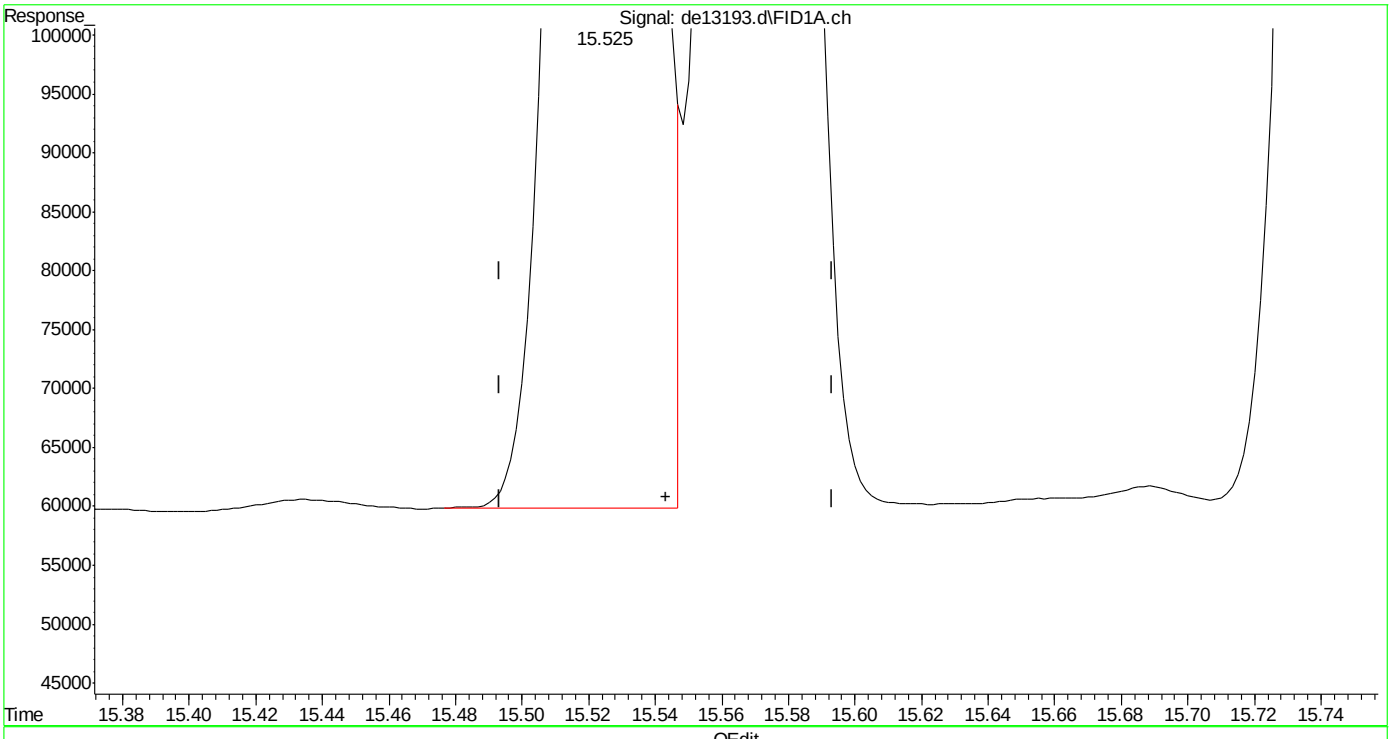
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:13 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.525min 4.785 µg/ml
response 468557

(+) = Expected Retention Time

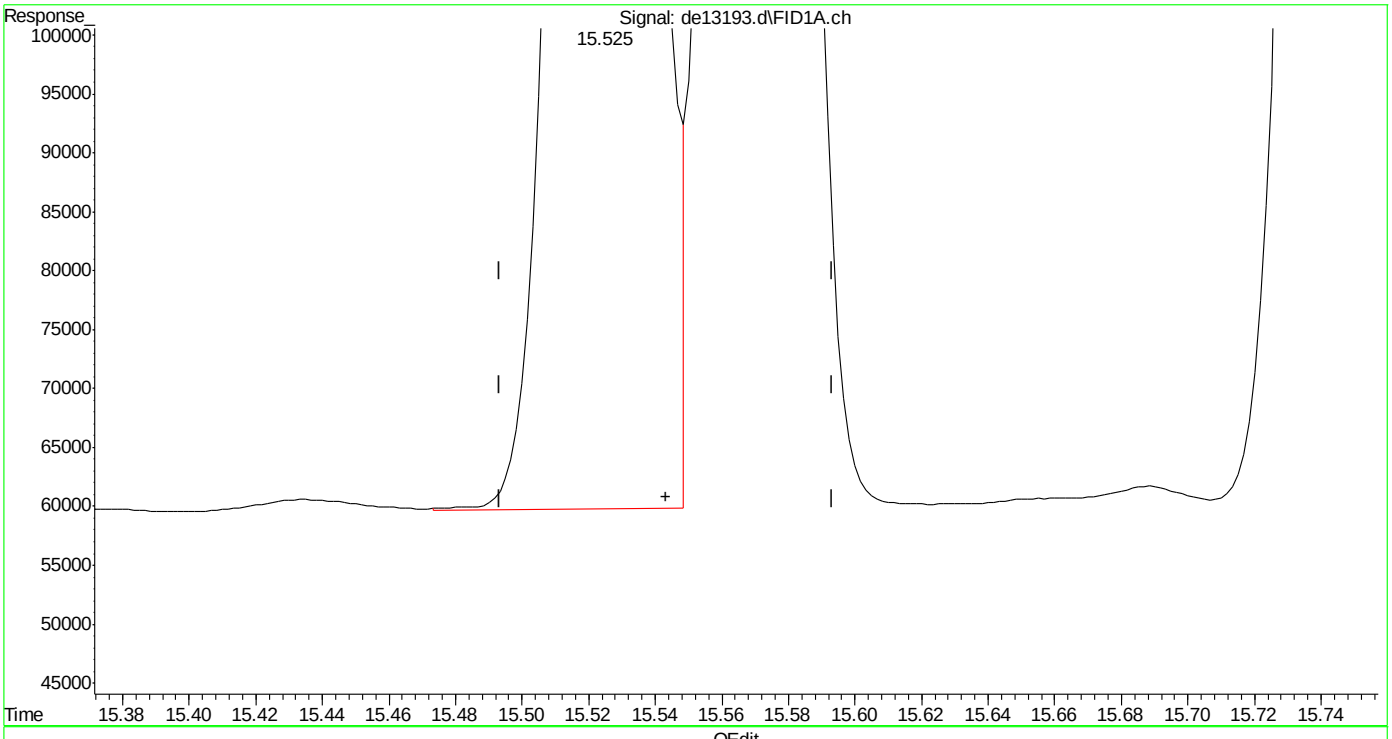
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.525min 4.822 µg/ml m
response 472235

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:44:45 2016

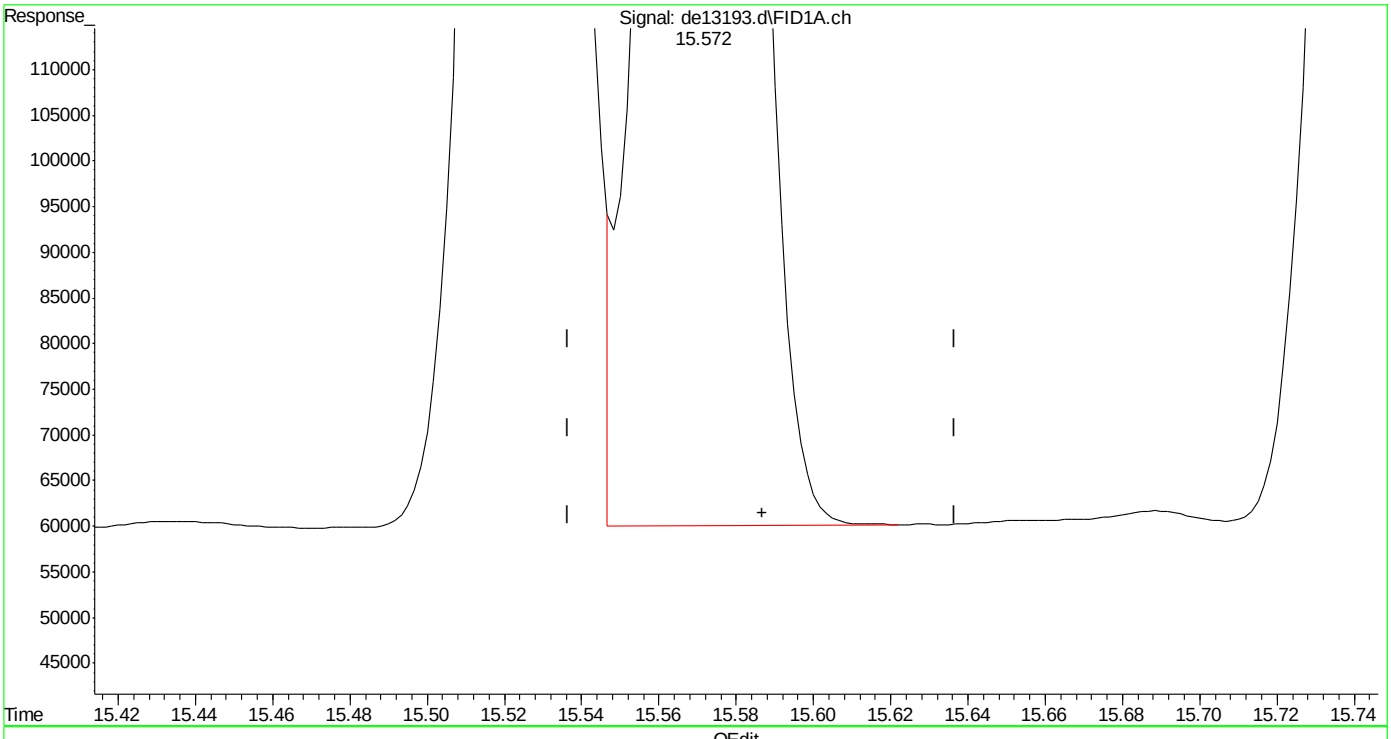
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.572min 5.000 µg/ml
response 468978

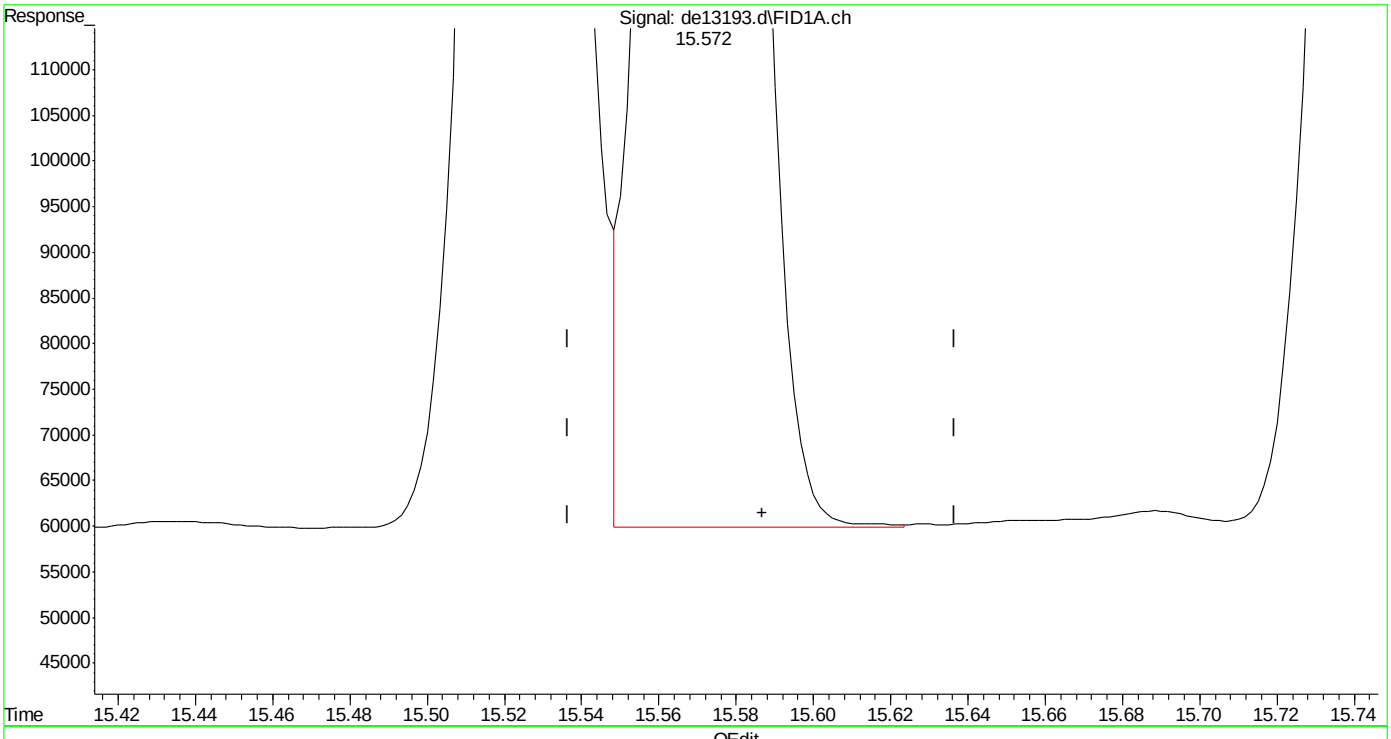
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.572min 4.975 µg/ml m
response 466623

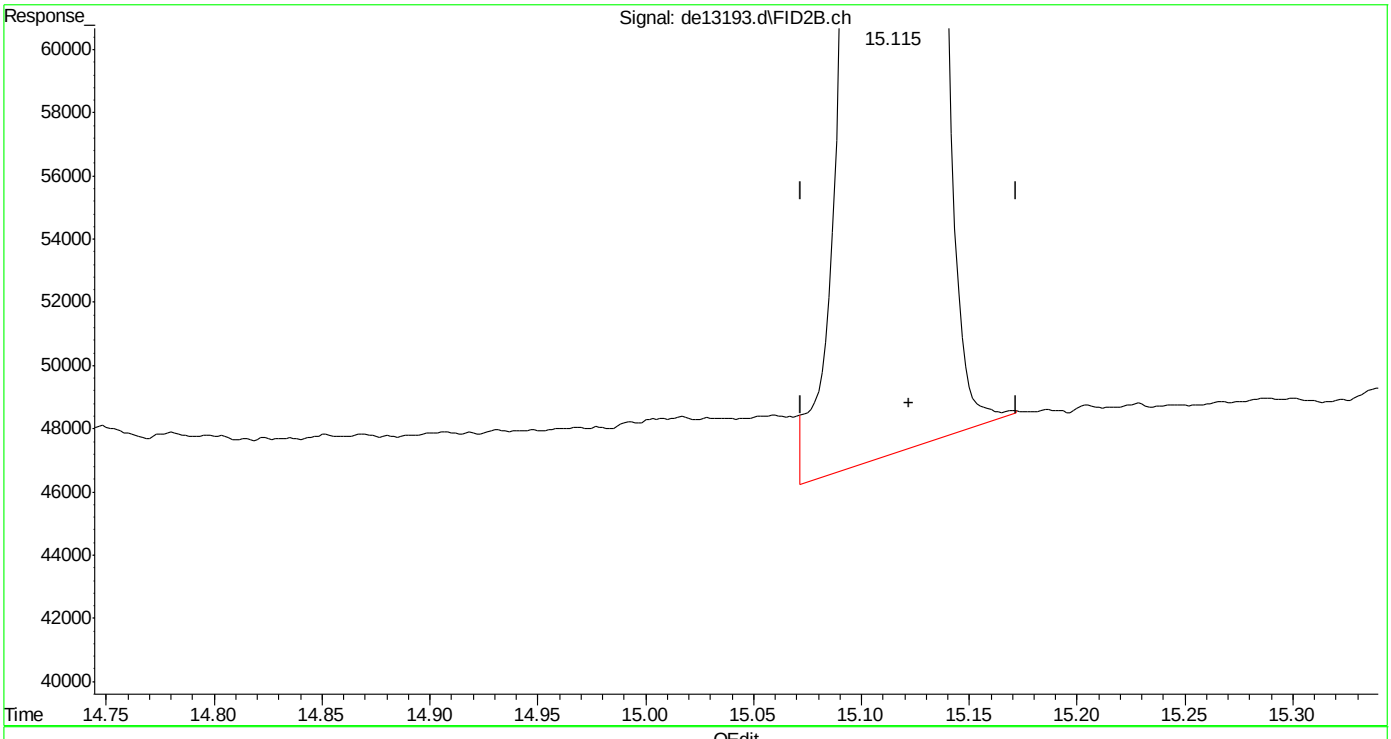
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:45:09 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 5.120 µg/ml
response 351498

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:46:01 2016

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Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	1923499	20.264 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 101.32%#	
6) s 2-bromonaphthalene	7.532	1318220	20.454 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 102.27%#	
11) s o-terphenyl	10.080	2144067	20.565 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 102.83%#	
35) s 1-chlorooctadecane	11.248	1182336	20.984 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 104.92%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	36131366	22.235 µg/mlm
2) naphthalene	5.352	2162719	20.282 µg/ml
3) 2-methylnaphthalene	6.250	2136209	20.220 µg/ml
5) acenaphthylene	7.368	2106441	20.279 µg/ml
7) acenaphthene	7.610	2170607	20.454 µg/ml
8) fluorene	8.253	2130652	20.455 µg/ml
9) phenanthrene	9.437	2129143	20.500 µg/ml
10) anthracene	9.493	2038508	20.982 µg/ml
12) fluoranthene	10.945	2077039	20.389 µg/ml
13) pyrene	11.203	2089957	20.238 µg/ml
14) benzo(a)anthracene	12.763	2002764	20.461 µg/ml
15) chrysene	12.812	2022589	20.496 µg/ml
16) benzo(B)fluoranthene	14.060	2094779	20.856 µg/mlm
17) benzo(k)fluoranthene	14.090	1953249	20.187 µg/mlm
18) benzo(a)pyrene	14.395	1927552	20.332 µg/ml
19) indeno(1,2,3-cd)pyrene	15.532	1948257	19.991 µg/ml
20) dibenzo(ah)anthracene	15.577	1933263	20.726 µg/ml
21) benzo(ghi)perylene	15.753	1916075	20.362 µg/ml
25) h c-9	2.680	1587594	20.952 µg/mlm
26) h c-10	3.833	1597831	20.904 µg/ml
27) naphthalene #2	5.512	1701488	21.332 µg/ml
28) c-12	5.687	1581613	20.810 µg/ml
29) 2-methylnaphthalene #2	6.405	1698114	20.825 µg/ml
30) c-14	7.203	1563771	20.568 µg/ml
31) c-16	8.532	1537180	20.338 µg/ml
32) c-18	9.727	1515877	20.257 µg/ml
33) c-19	10.282	1500139	20.556 µg/ml
34) c-20	10.813	1468089	20.532 µg/ml
36) c-22	11.808	1451343	20.601 µg/ml
37) c-24	12.727	1351453	20.219 µg/ml

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc Units
38)	c-26	13.580	1435543	20.577 µg/ml
39)	c-28	14.373	1385739	20.519 µg/ml
40) h	c-30	15.122	1377048	20.029 µg/mlm
41) h	c-36	17.010	1222680	20.011 µg/mlm

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

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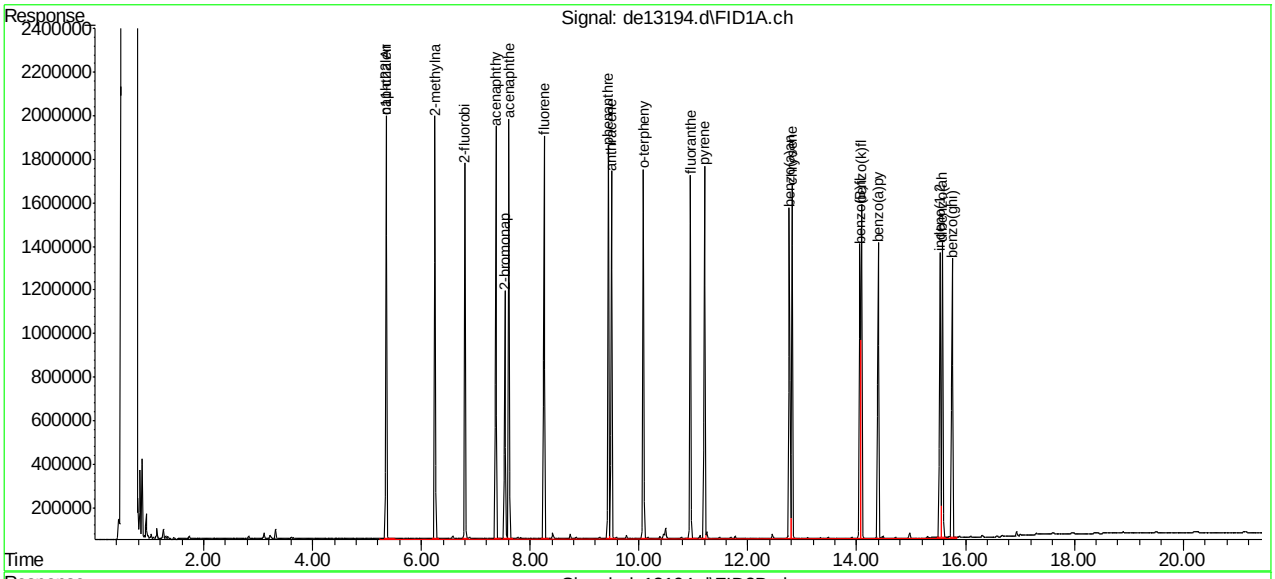
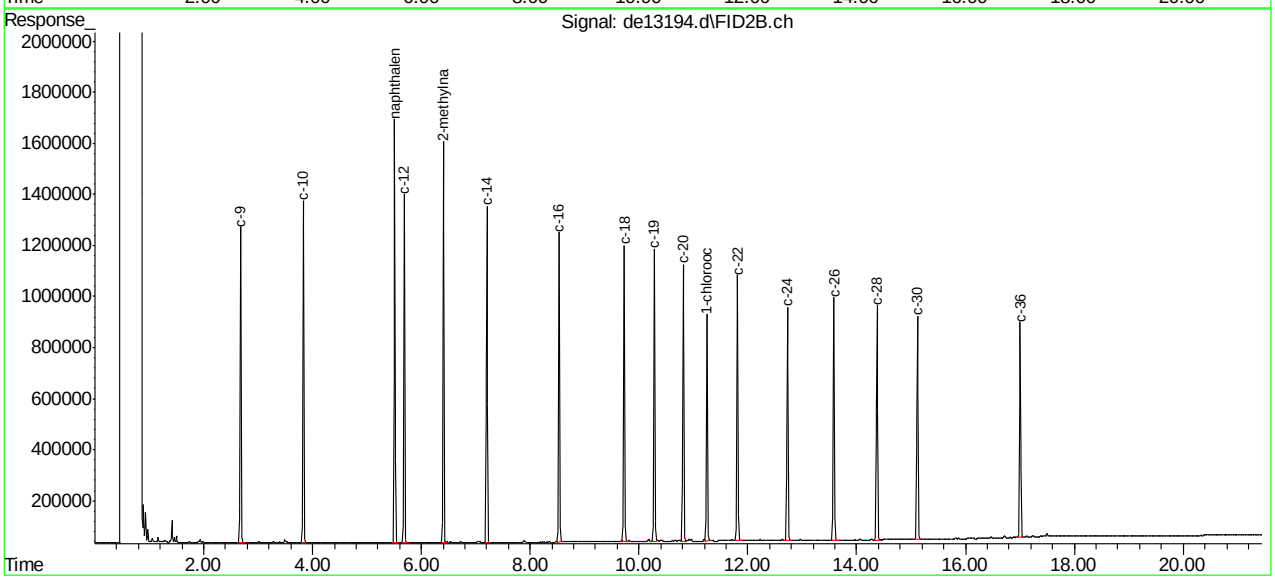
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

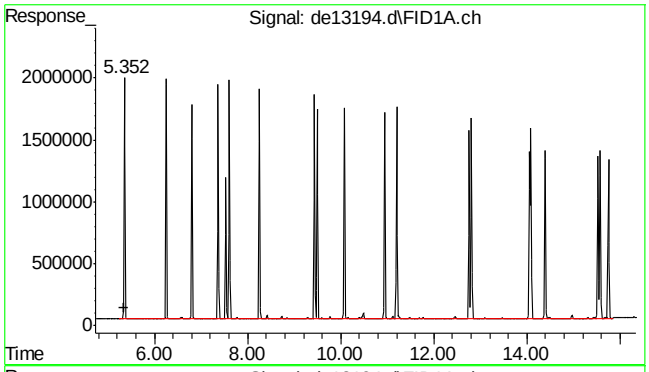
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



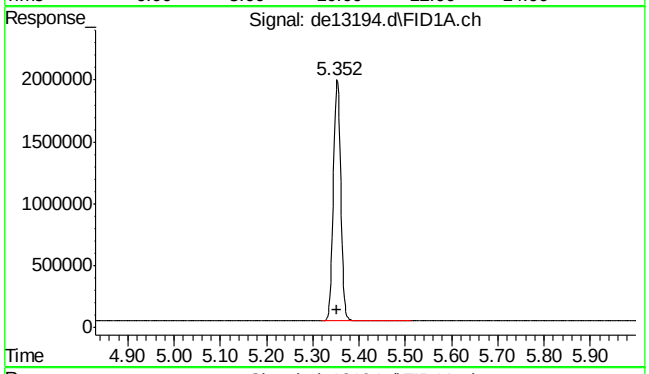


SGS ACCUTEST MC45897



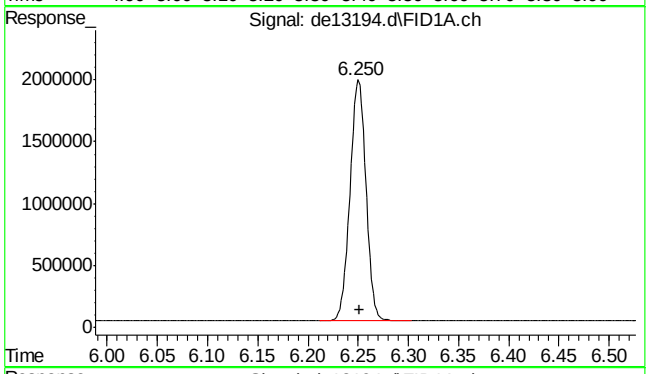
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36131366
Conc: 22.24 µg/ml m



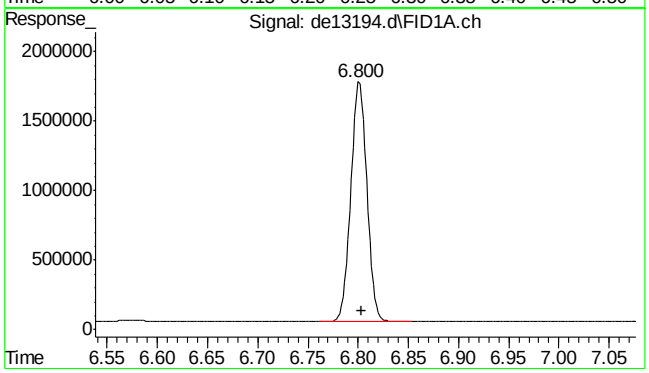
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 2162719
Conc: 20.28 µg/ml



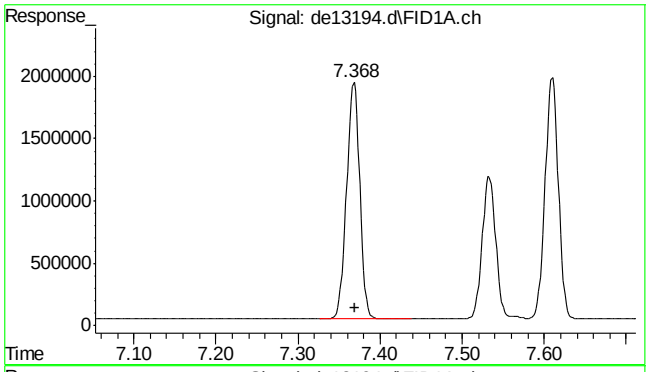
#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 2136209
Conc: 20.22 µg/ml



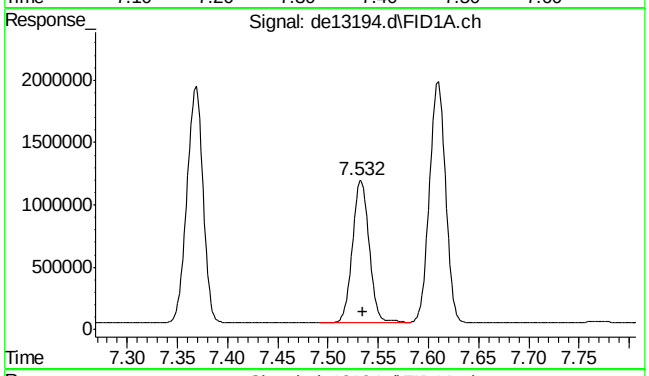
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 1923499
Conc: 20.26 µg/ml



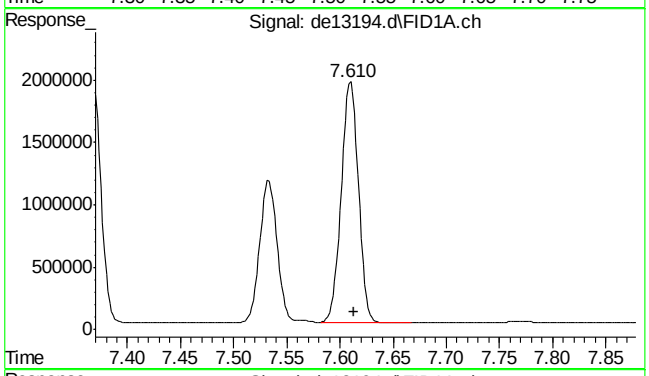
#5 acenaphthylene

R.T.: 7.368 min
Delta R.T.: -0.002 min
Response: 2106441
Conc: 20.28 µg/ml



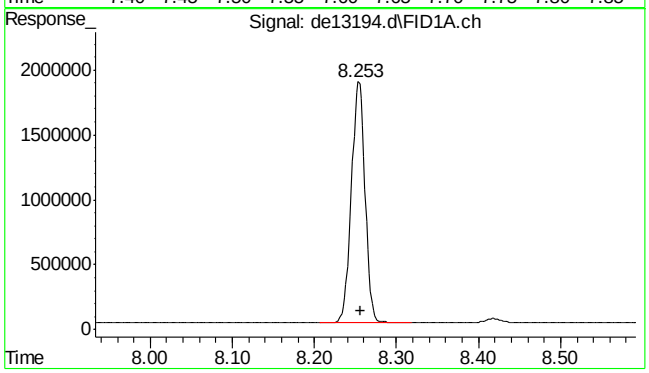
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 1318220
Conc: 20.45 µg/ml



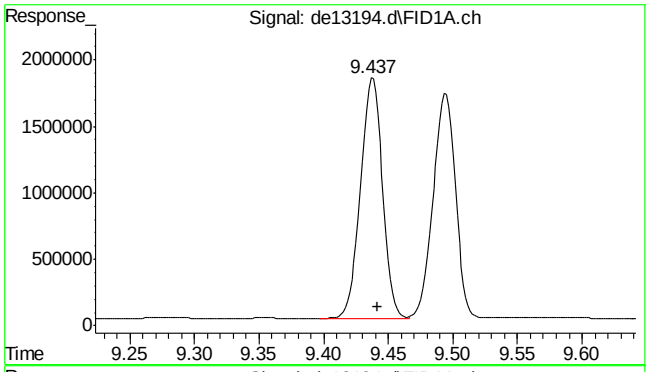
#7 acenaphthene

R.T.: 7.610 min
Delta R.T.: -0.003 min
Response: 2170607
Conc: 20.45 µg/ml



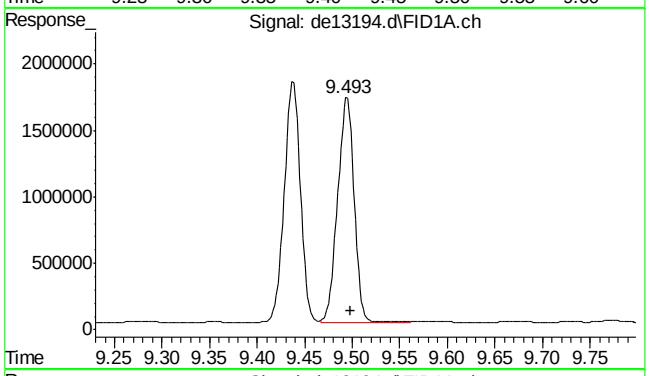
#8 fluorene

R.T.: 8.253 min
Delta R.T.: -0.003 min
Response: 2130652
Conc: 20.46 µg/ml



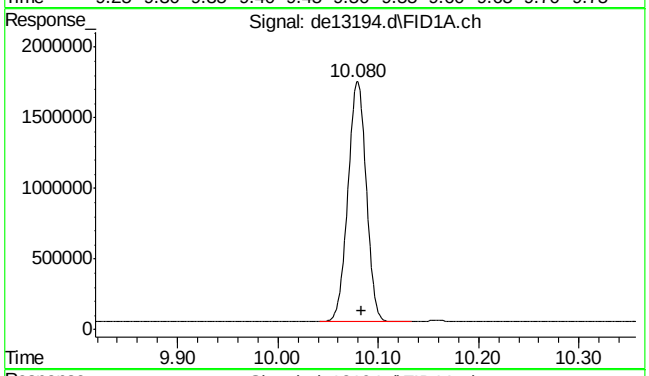
#9 phenanthrene

R.T.: 9.437 min
Delta R.T.: -0.005 min
Response: 2129143
Conc: 20.50 µg/ml



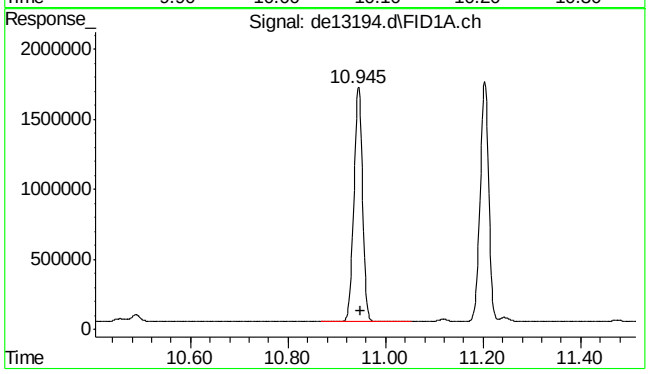
#10 anthracene

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 2038508
Conc: 20.98 µg/ml



#11 o-terphenyl

R.T.: 10.080 min
Delta R.T.: -0.003 min
Response: 2144067
Conc: 20.57 µg/ml



#12 fluoranthene

R.T.: 10.945 min
Delta R.T.: -0.003 min
Response: 2077039
Conc: 20.39 µg/ml

9.5.4

9

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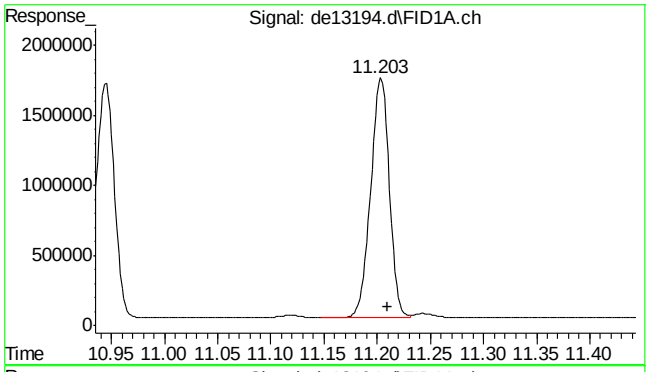
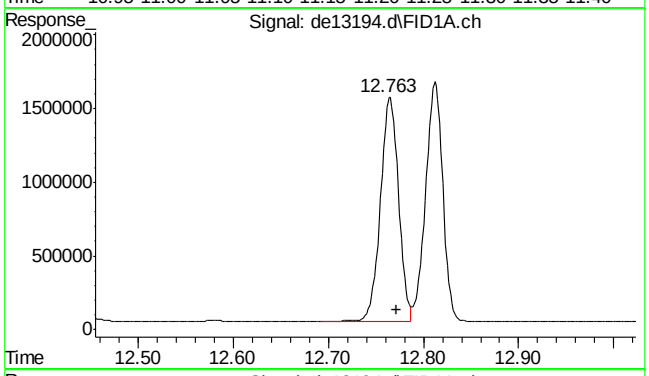


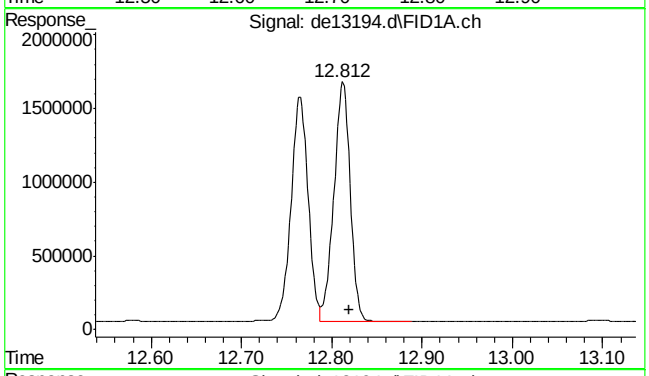
#13 pyrene

R.T.: 11.203 min
Delta R.T.: -0.007 min
Response: 2089957
Conc: 20.24 µg/ml



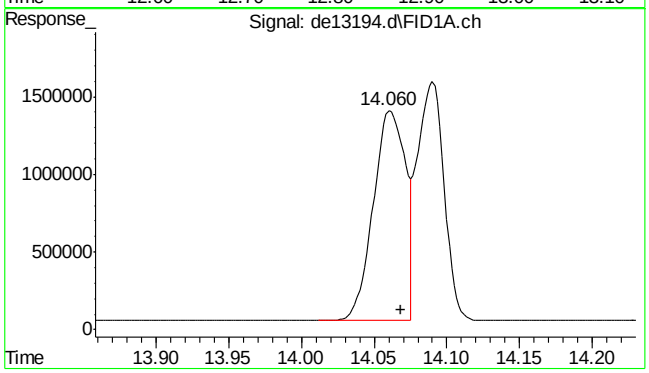
#14 benzo(a)anthracene

R.T.: 12.763 min
Delta R.T.: -0.008 min
Response: 2002764
Conc: 20.46 µg/ml



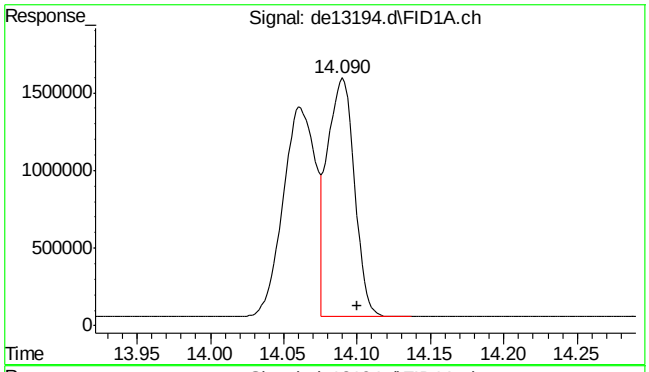
#15 chrysene

R.T.: 12.812 min
Delta R.T.: -0.008 min
Response: 2022589
Conc: 20.50 µg/ml



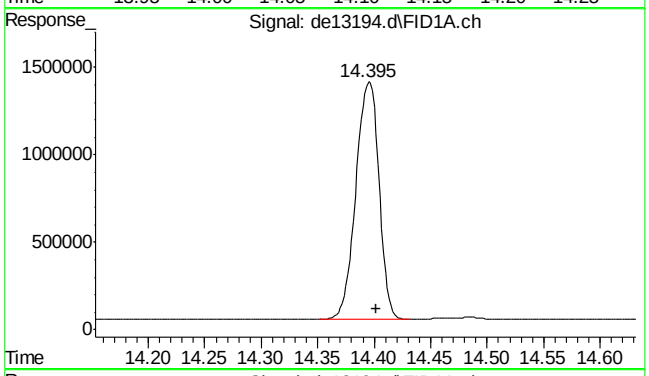
#16 benzo(B)fluoranthene

R.T.: 14.060 min
Delta R.T.: -0.008 min
Response: 2094779
Conc: 20.86 µg/ml m



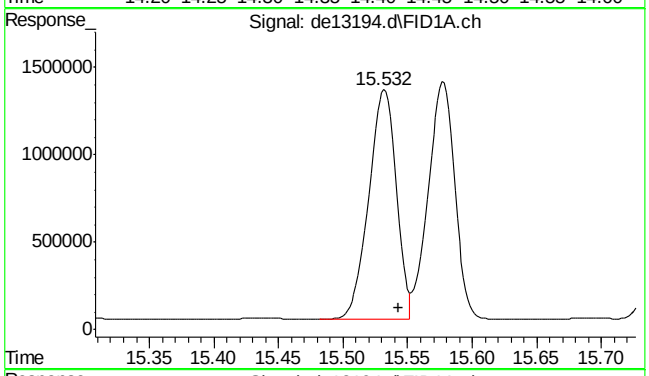
#17 benzo(k)fluoranthene

R.T.: 14.090 min
Delta R.T.: -0.010 min
Response: 1953249
Conc: 20.19 µg/ml m



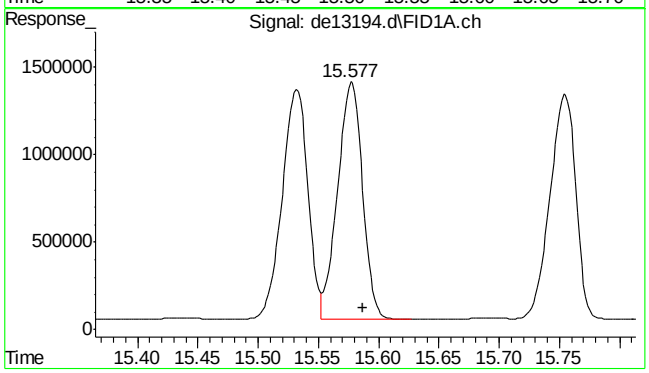
#18 benzo(a)pyrene

R.T.: 14.395 min
Delta R.T.: -0.007 min
Response: 1927552
Conc: 20.33 µg/ml



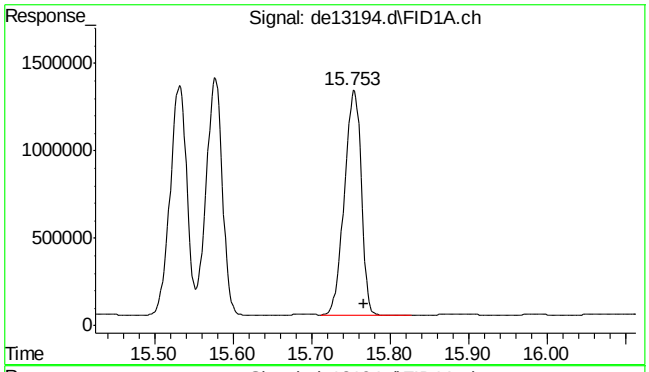
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.532 min
Delta R.T.: -0.012 min
Response: 1948257
Conc: 19.99 µg/ml



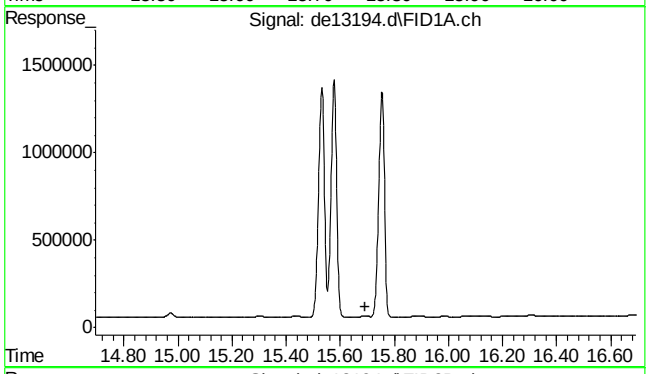
#20 dibenzo(ah)anthracene

R.T.: 15.577 min
Delta R.T.: -0.010 min
Response: 1933263
Conc: 20.73 µg/ml



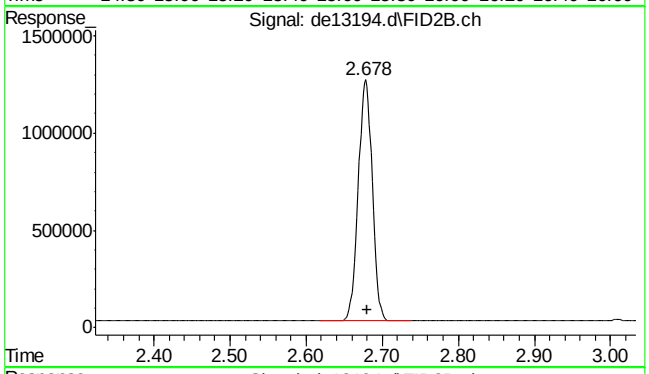
#21 benzo(ghi)perylene

R.T.: 15.753 min
Delta R.T.: -0.013 min
Response: 1916075
Conc: 20.36 µg/ml



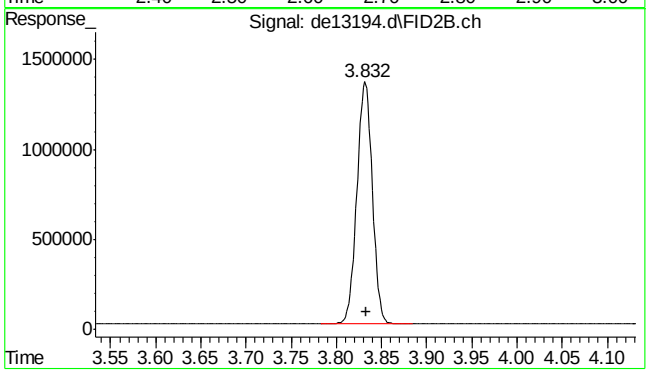
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 1587594
Conc: 20.95 µg/ml m



#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 1597831
Conc: 20.90 µg/ml

9.5.4

9

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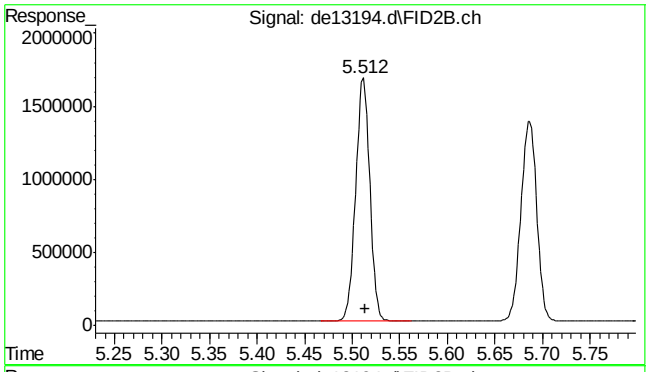
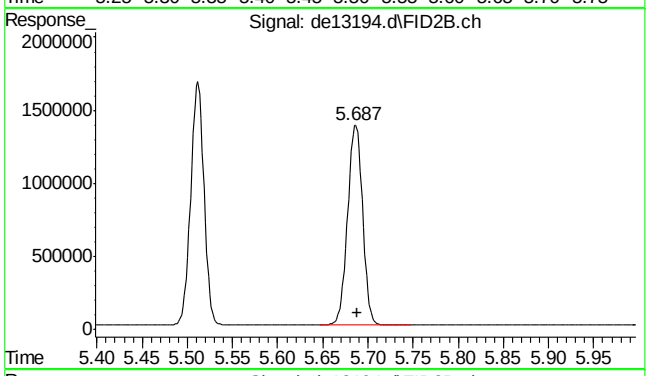


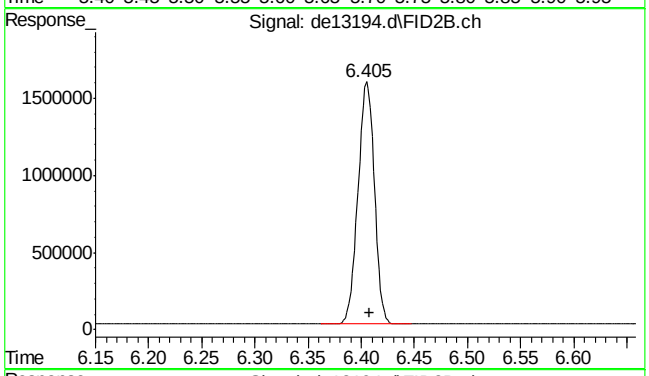
#27 naphthalene #2

R.T.: 5.512 min
Delta R.T.: -0.002 min
Response: 1701488
Conc: 21.33 µg/ml



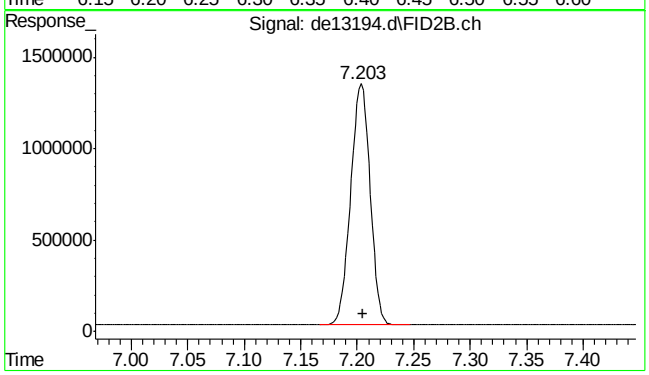
#28 c-12

R.T.: 5.687 min
Delta R.T.: -0.002 min
Response: 1581613
Conc: 20.81 µg/ml



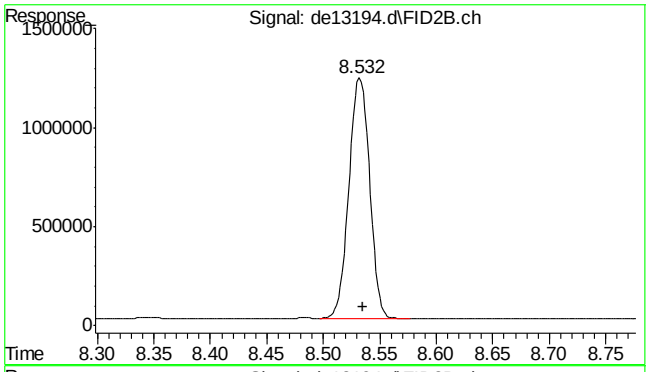
#29 2-methylnaphthalene #2

R.T.: 6.405 min
Delta R.T.: -0.003 min
Response: 1698114
Conc: 20.83 µg/ml



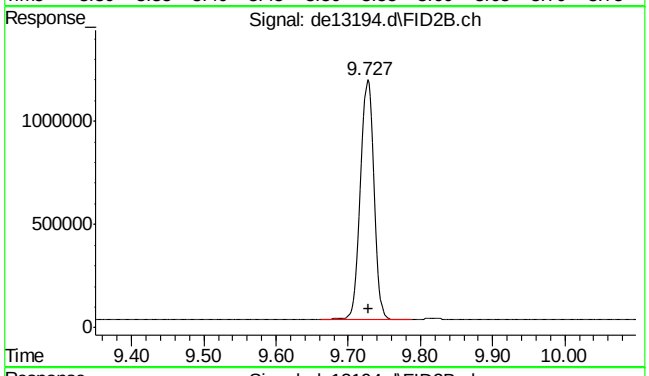
#30 c-14

R.T.: 7.203 min
Delta R.T.: -0.002 min
Response: 1563771
Conc: 20.57 µg/ml



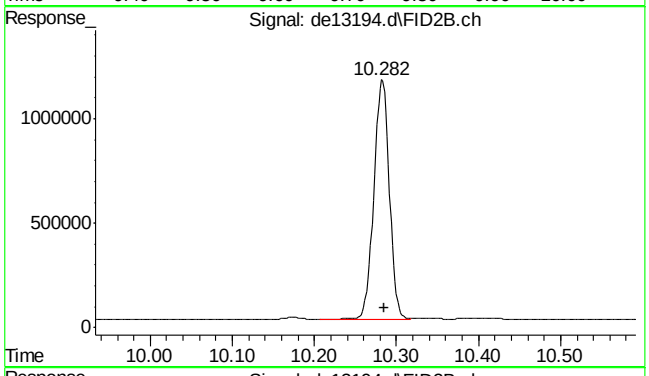
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 1537180
Conc: 20.34 µg/ml



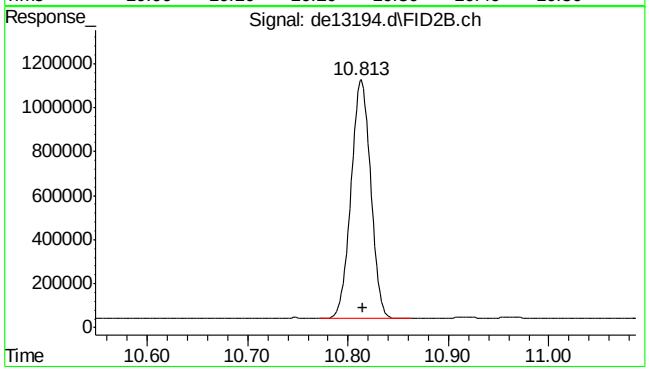
#32 c-18

R.T.: 9.727 min
Delta R.T.: -0.002 min
Response: 1515877
Conc: 20.26 µg/ml



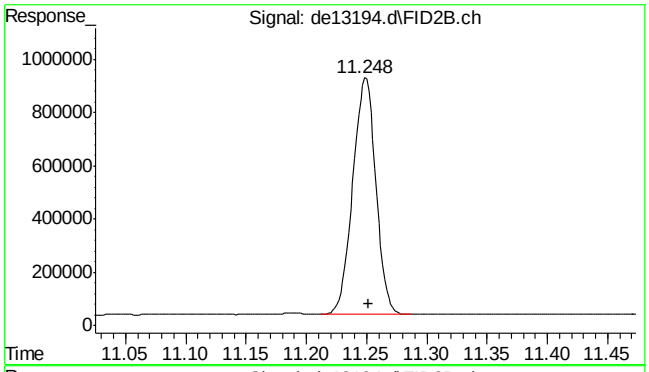
#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 1500139
Conc: 20.56 µg/ml



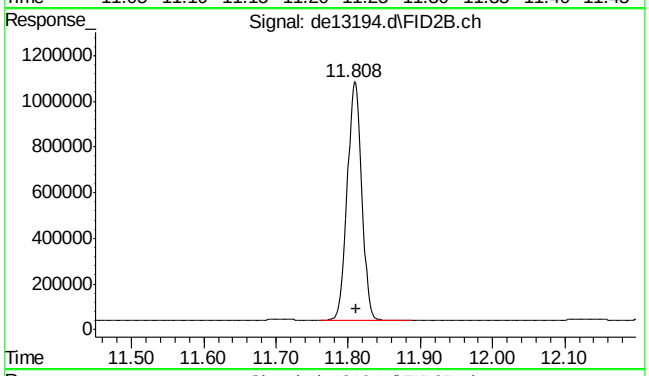
#34 c-20

R.T.: 10.813 min
Delta R.T.: -0.002 min
Response: 1468089
Conc: 20.53 µg/ml



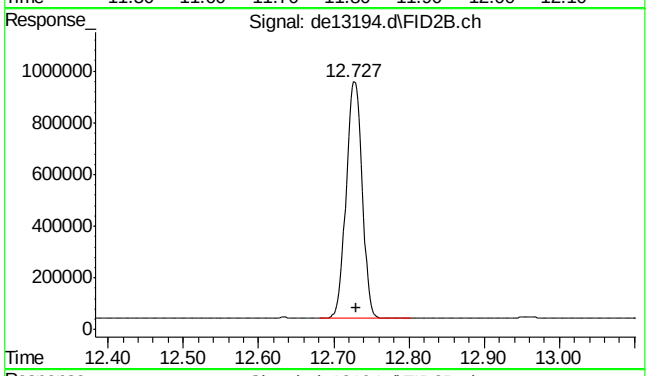
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 1182336
Conc: 20.98 µg/ml



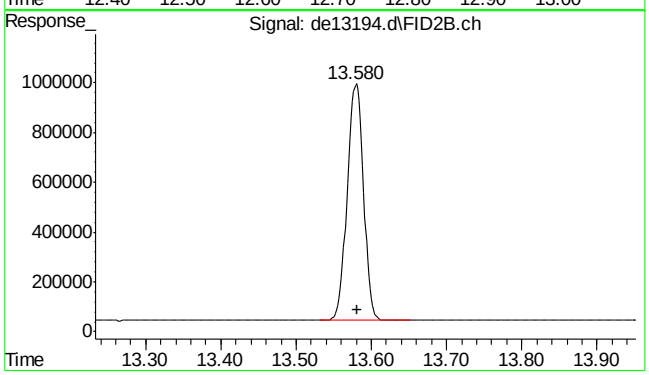
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 1451343
Conc: 20.60 µg/ml



#37 c-24

R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 1351453
Conc: 20.22 µg/ml



#38 c-26

R.T.: 13.580 min
Delta R.T.: -0.002 min
Response: 1435543
Conc: 20.58 µg/ml

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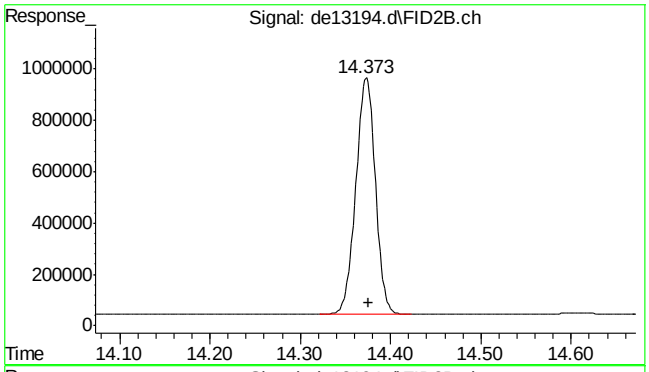
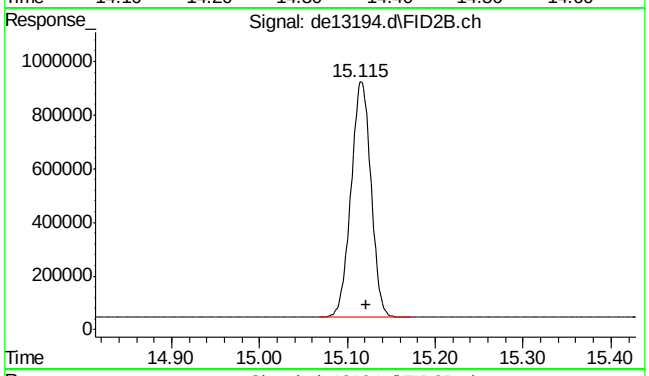


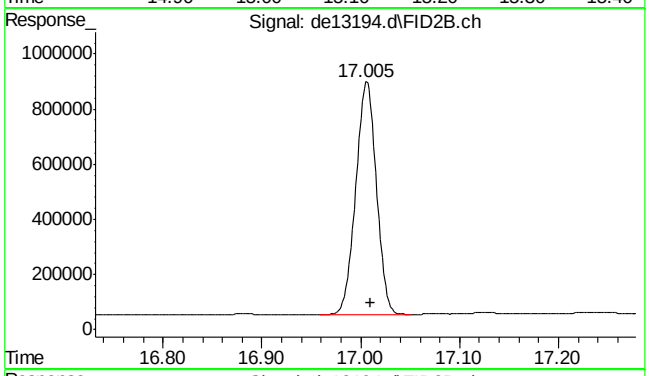
#39 c-28

R.T.: 14.373 min
Delta R.T.: -0.002 min
Response: 1385739
Conc: 20.52 µg/ml



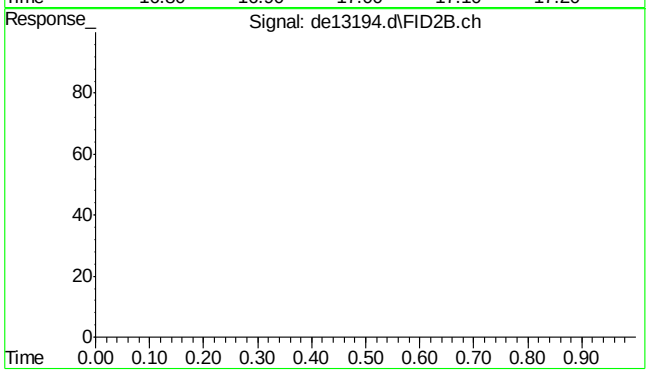
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 1377048
Conc: 20.03 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 1222680
Conc: 20.01 µg/ml m



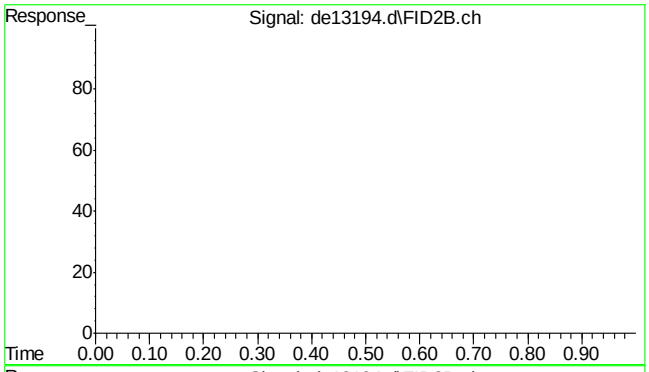
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.4

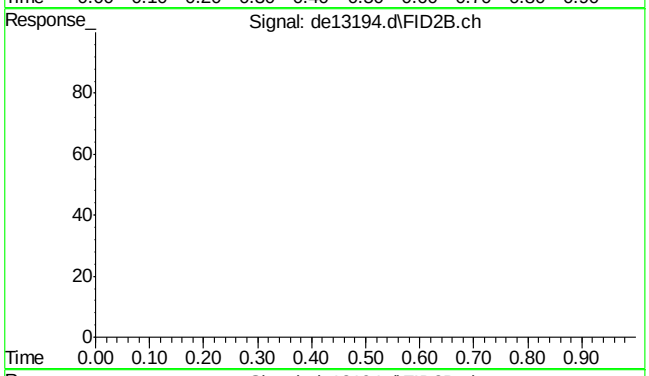
9

SGS ACCUTEST MC45897



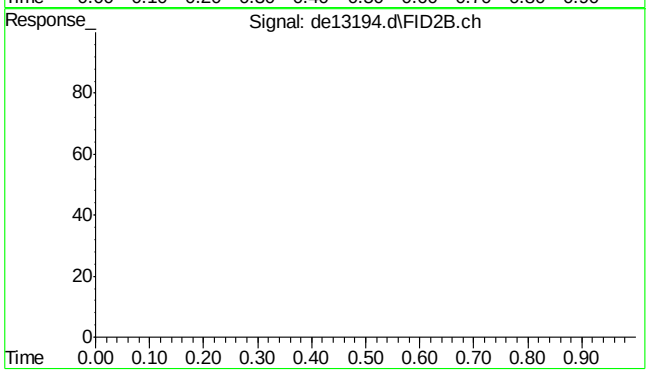
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

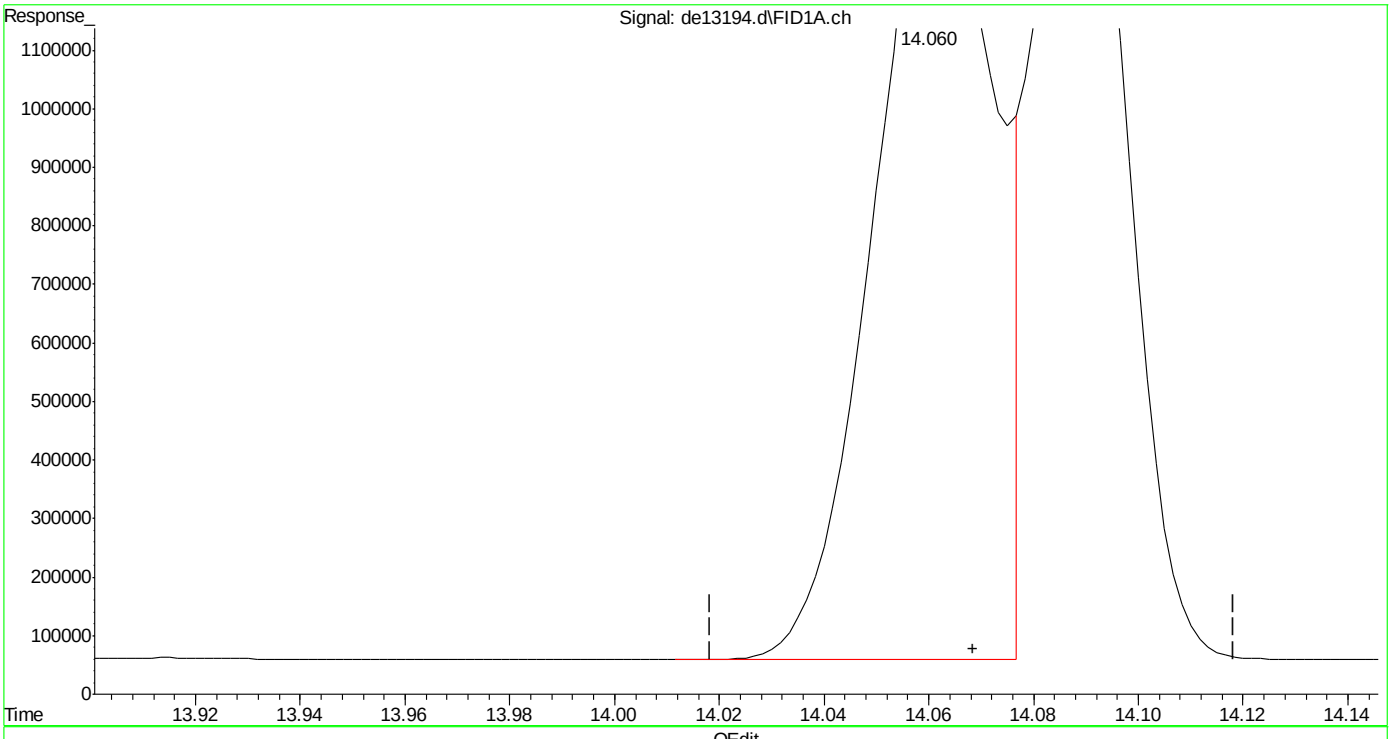
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.060min 21.786 µg/ml
response 2188193

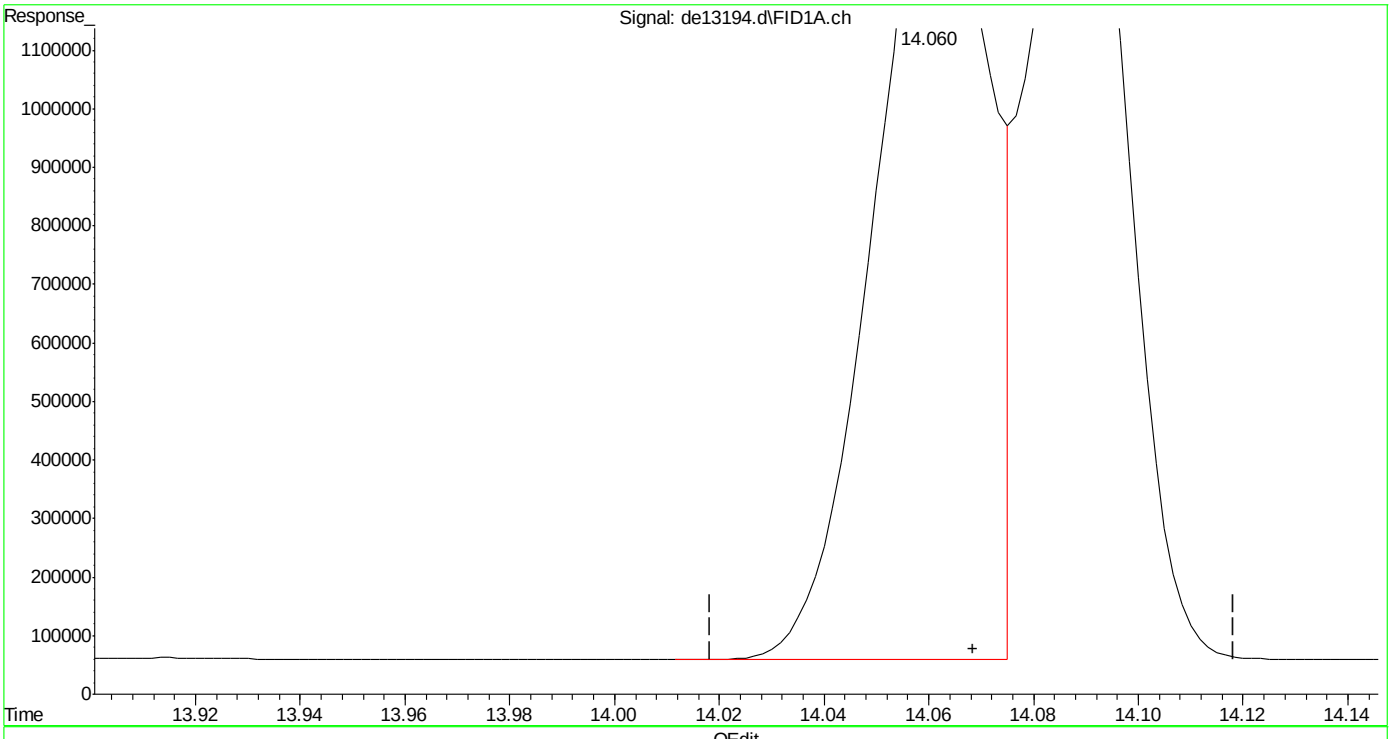
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.060min 20.856 µg/ml m
response 2094779

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:50:34 2016

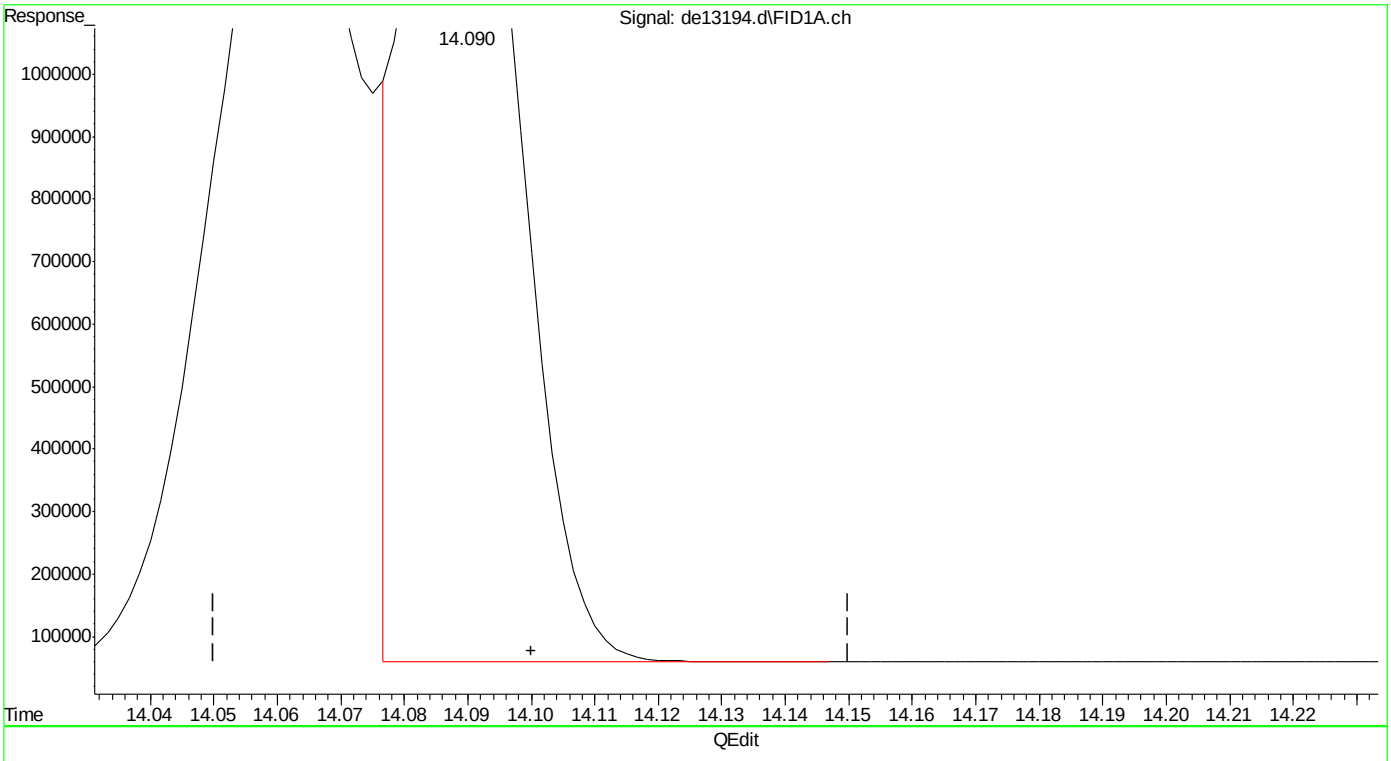
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.090min 19.228 µg/ml
response 1860456

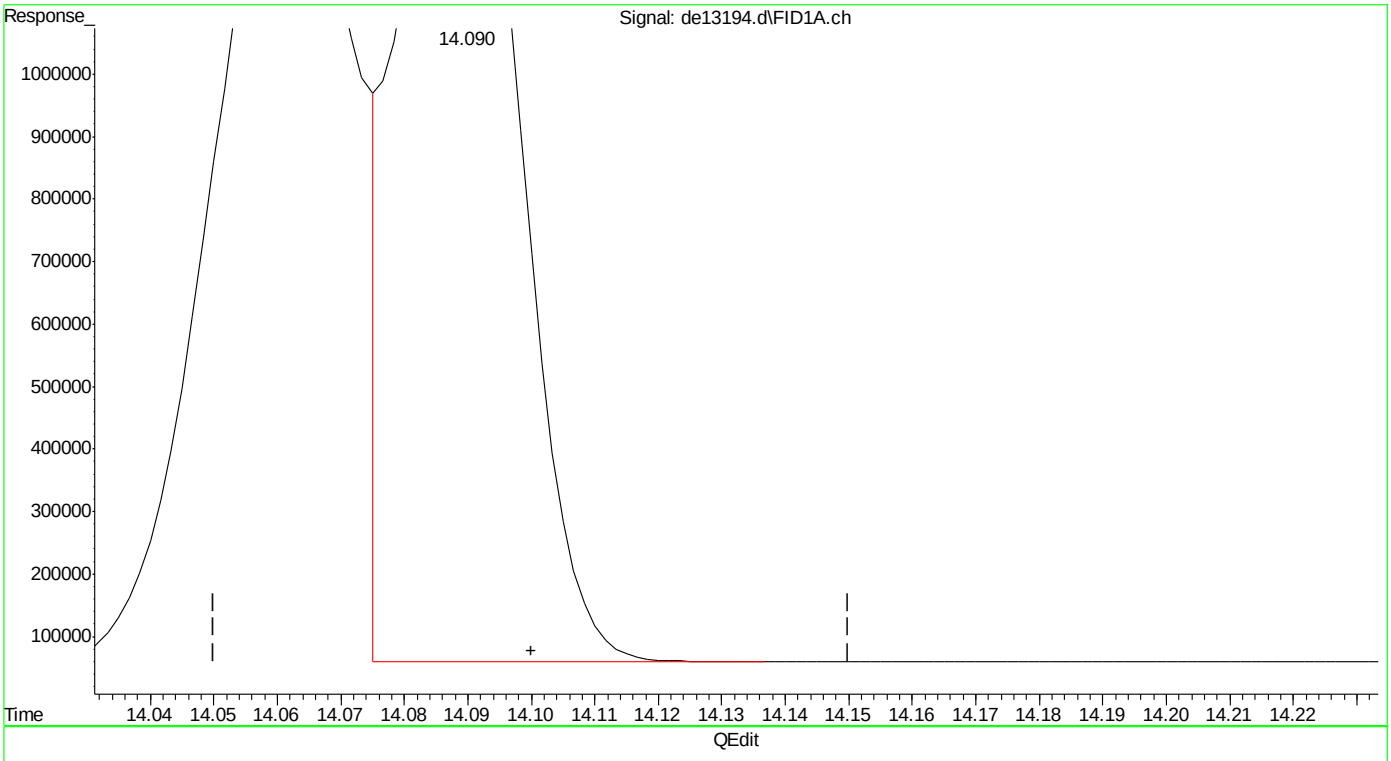
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.090min 20.187 µg/ml m
response 1953249

(+) = Expected Retention Time

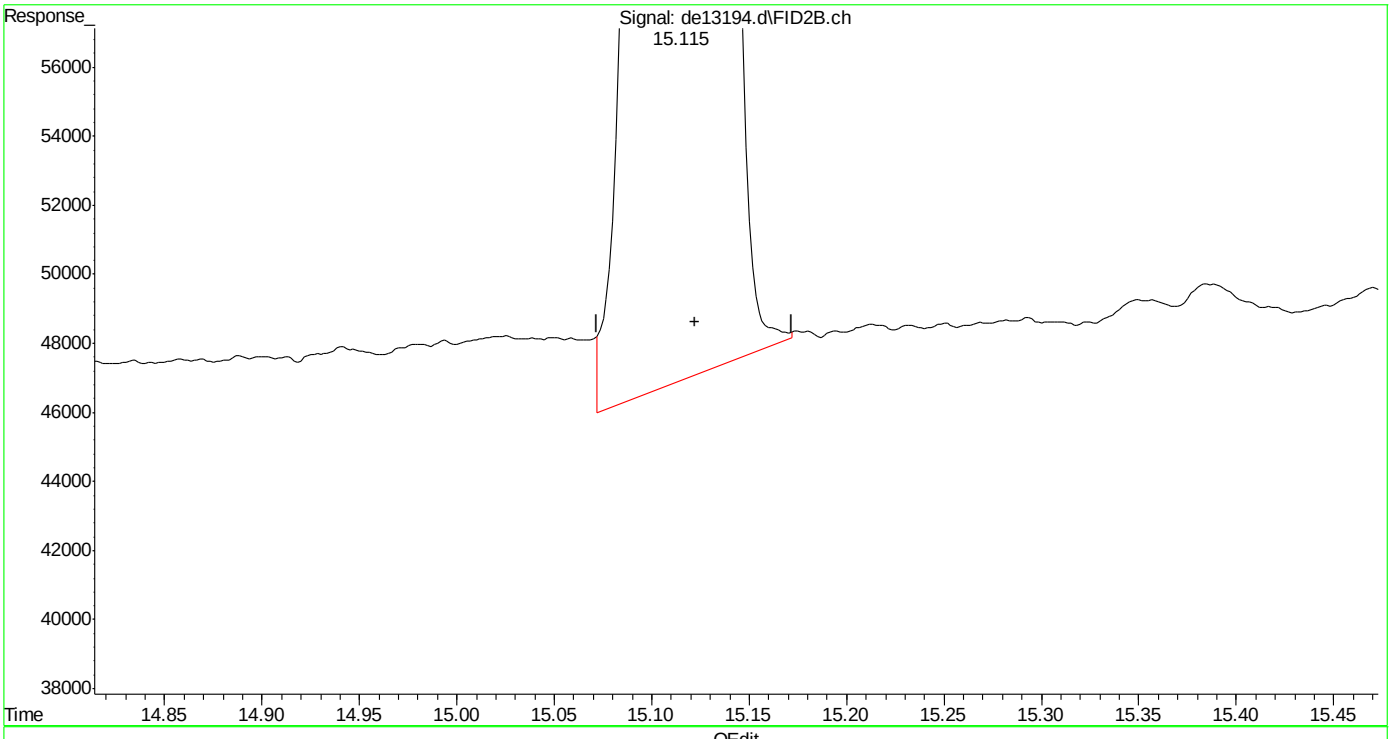
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.122min 20.114 µg/ml
response 1382917

(+) = Expected Retention Time

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.803	4755859	50.970 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 254.85%#		
6) s 2-bromonaphthalene	7.535	3250284	51.239 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 256.19%#		
11) s o-terphenyl	10.083	5257542	50.987 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 254.94%#		
35) s 1-chlorooctadecane	11.252	2679754	47.467 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 237.33%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	87424928	52.817 µg/mlm
2) naphthalene	5.353	5345223	51.089 µg/ml
3) 2-methylnaphthalene	6.252	5287222	50.952 µg/ml
5) acenaphthylene	7.370	5189849	50.857 µg/ml
7) acenaphthene	7.613	5354326	51.245 µg/ml
8) fluorene	8.257	5242546	51.074 µg/ml
9) phenanthrene	9.442	5223164	50.912 µg/ml
10) anthracene	9.498	4970359	51.417 µg/ml
12) fluoranthene	10.948	5079973	50.440 µg/ml
13) pyrene	11.210	5123787	50.161 µg/ml
14) benzo(a)anthracene	12.772	4883350	50.327 µg/ml
15) chrysene	12.820	4951740	50.659 µg/ml
16) benzo(B)fluoranthene	14.068	4980192	49.821 µg/ml
17) benzo(k)fluoranthene	14.100	4922694	51.393 µg/ml
18) benzo(a)pyrene	14.402	4724847	50.445 µg/ml
19) indeno(1,2,3-cd)pyrene	15.543	4854725	50.326 µg/mlm
20) dibenzo(ah)anthracene	15.587	4685536	50.795 µg/mlm
21) benzo(ghi)perylene	15.767	4705124	50.470 µg/ml
25) h c-9	2.680	3541836	46.375 µg/mlm
26) h c-10	3.833	3570776	46.367 µg/ml
27) naphthalene #2	5.513	3805435	47.627 µg/ml
28) c-12	5.688	3545795	46.341 µg/ml
29) 2-methylnaphthalene #2	6.408	3803724	46.794 µg/ml
30) c-14	7.205	3516096	46.029 µg/ml
31) c-16	8.535	3450251	45.521 µg/ml
32) c-18	9.728	3414559	45.531 µg/ml
33) c-19	10.285	3383527	46.150 µg/ml
34) c-20	10.815	3319667	46.221 µg/ml
36) c-22	11.812	3288115	46.440 µg/ml
37) c-24	12.730	3065680	45.782 µg/ml

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.582	3260990	46.520	µg/ml
39)		c-28	14.375	3155644	46.526	µg/ml
40)	h	c-30	15.122	3152151	45.837	µg/ml
41)	h	c-36	17.010	2883025	47.180	µg/mlm

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

9.5.5

9

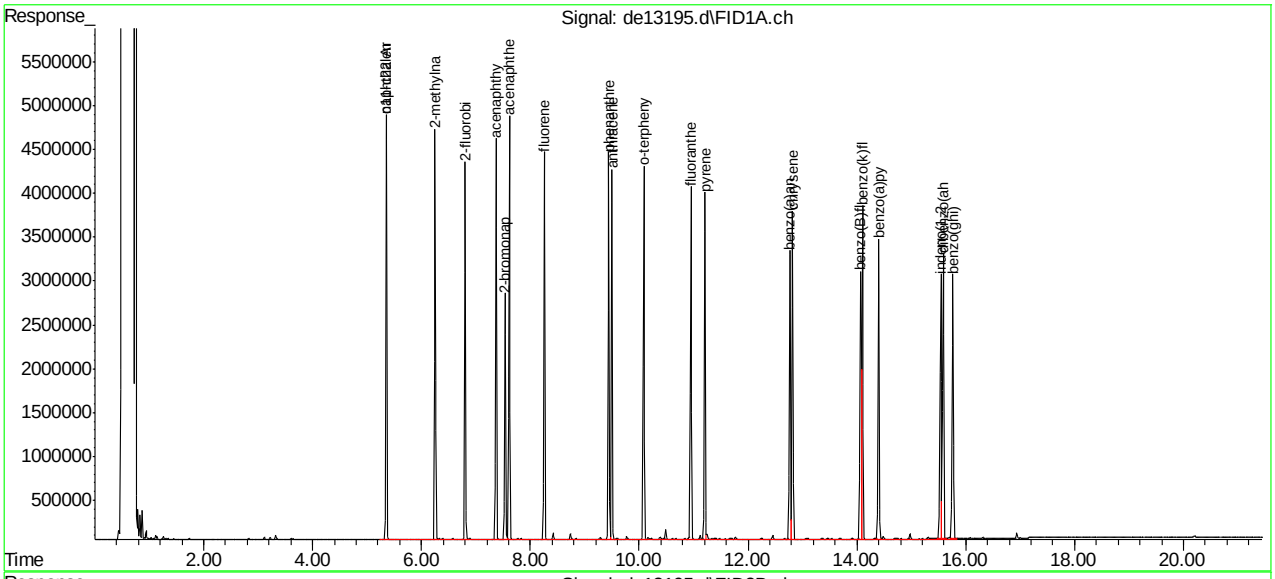
SGS ACCUTEST MC45897

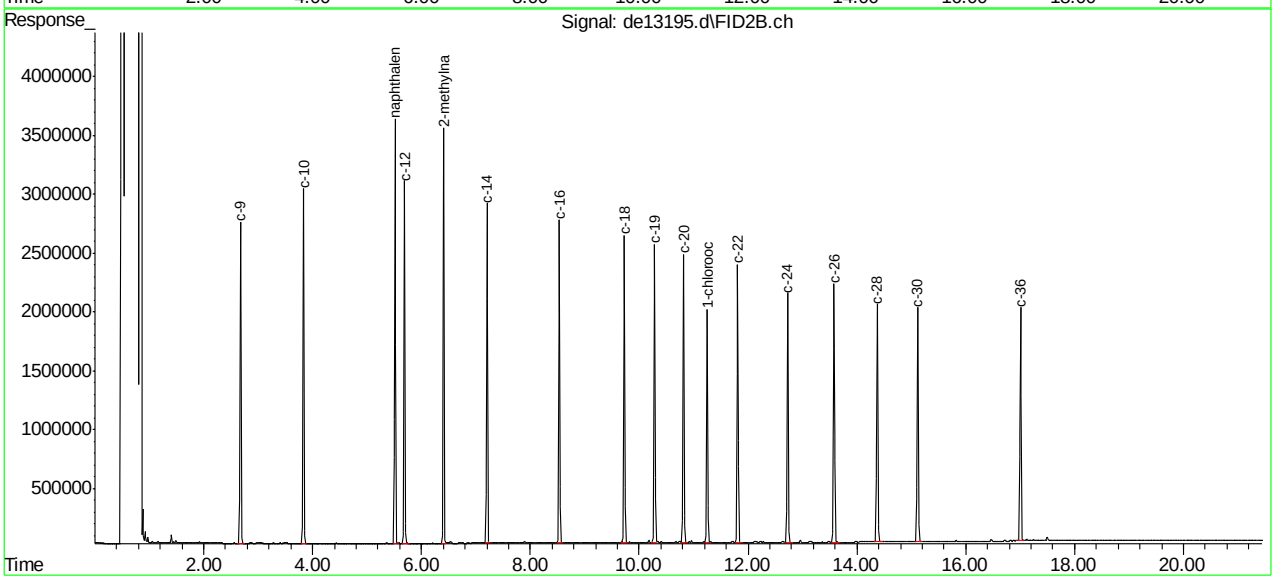
Quantitation Report (QT Reviewed)

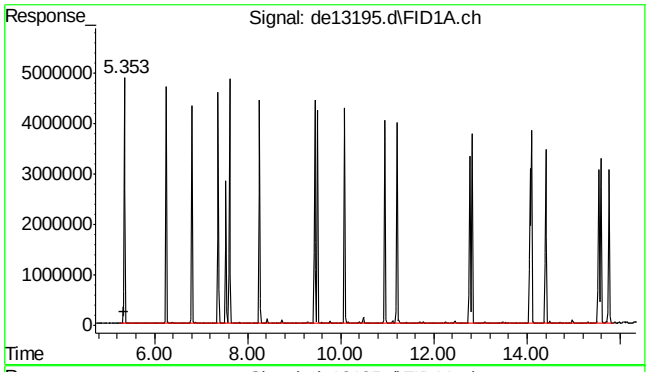
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

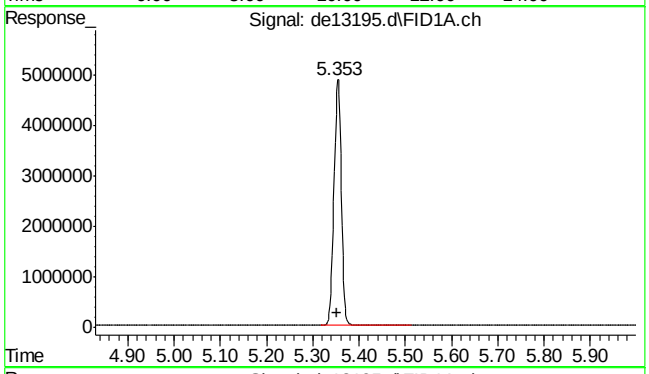






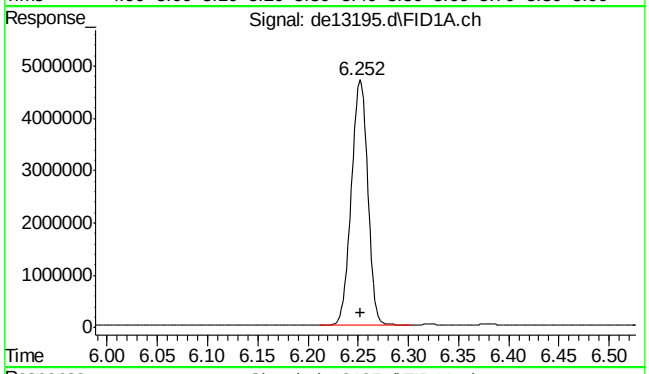
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 87424928
Conc: 52.82 µg/ml m



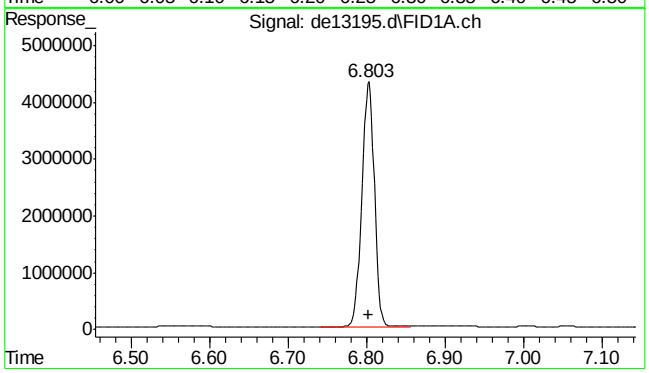
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 5345223
Conc: 51.09 µg/ml



#3 2-methylnaphthalene

R.T.: 6.252 min
Delta R.T.: 0.000 min
Response: 5287222
Conc: 50.95 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.803 min
Delta R.T.: 0.000 min
Response: 4755859
Conc: 50.97 µg/ml

9.5.5

9

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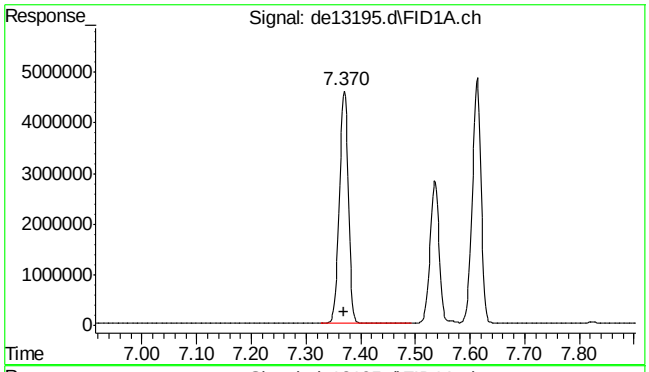
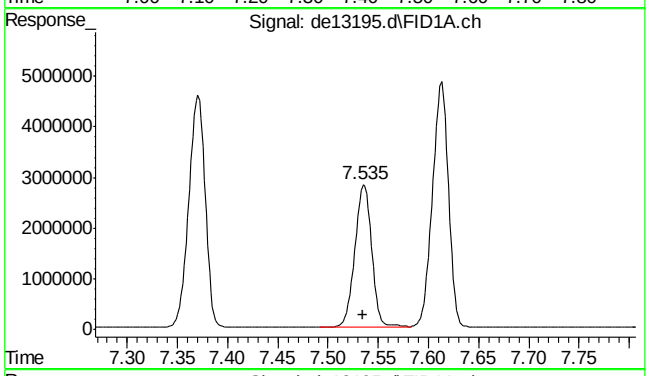


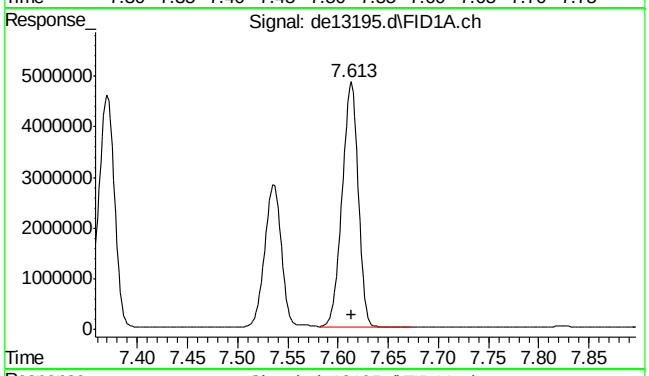
#5 acenaphthylene

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 5189849
Conc: 50.86 µg/ml



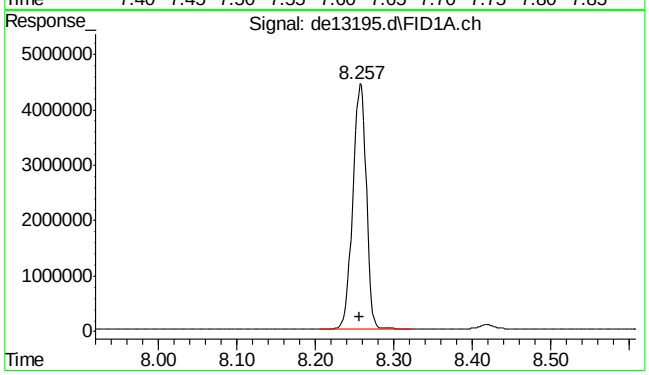
#6 2-bromonaphthalene

R.T.: 7.535 min
Delta R.T.: 0.000 min
Response: 3250284
Conc: 51.24 µg/ml



#7 acenaphthene

R.T.: 7.613 min
Delta R.T.: 0.000 min
Response: 5354326
Conc: 51.25 µg/ml



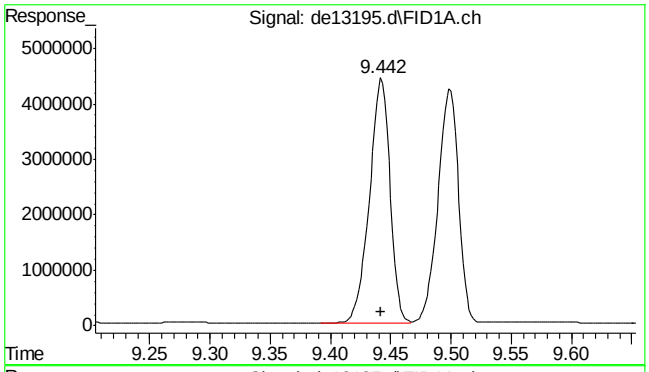
#8 fluorene

R.T.: 8.257 min
Delta R.T.: 0.000 min
Response: 5242546
Conc: 51.07 µg/ml

9.5.5

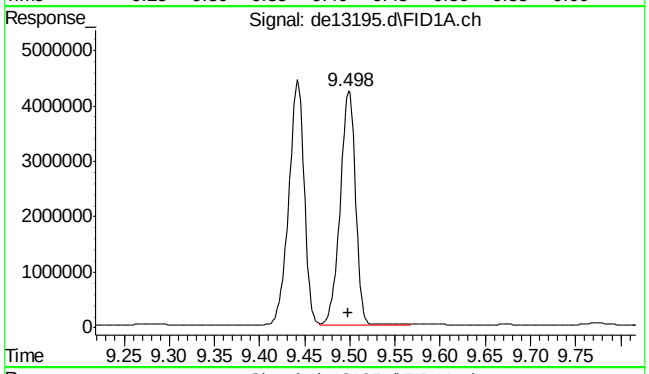
9

SGS ACCUTEST MC45897



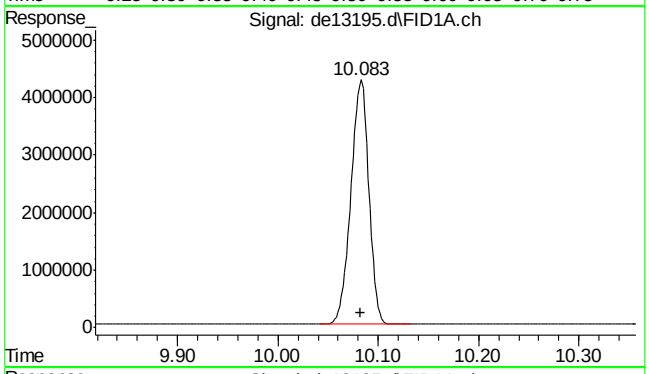
#9 phenanthrene

R.T.: 9.442 min
Delta R.T.: 0.000 min
Response: 5223164
Conc: 50.91 µg/ml



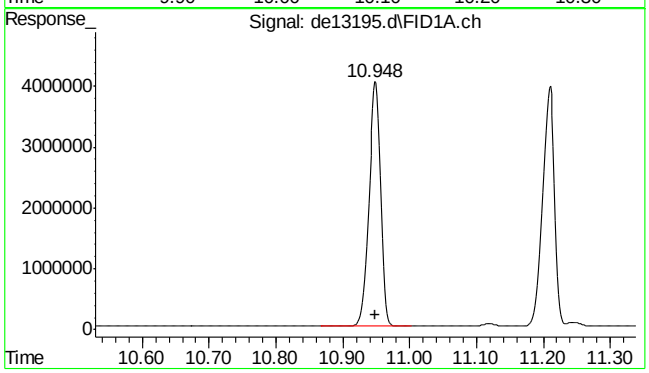
#10 anthracene

R.T.: 9.498 min
Delta R.T.: 0.000 min
Response: 4970359
Conc: 51.42 µg/ml



#11 o-terphenyl

R.T.: 10.083 min
Delta R.T.: 0.000 min
Response: 5257542
Conc: 50.99 µg/ml



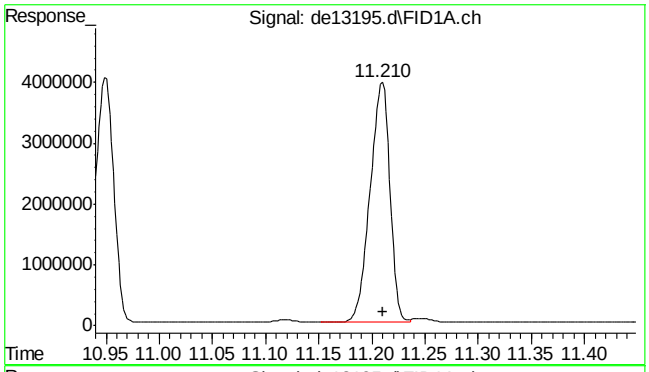
#12 fluoranthene

R.T.: 10.948 min
Delta R.T.: 0.000 min
Response: 5079973
Conc: 50.44 µg/ml

9.5.5

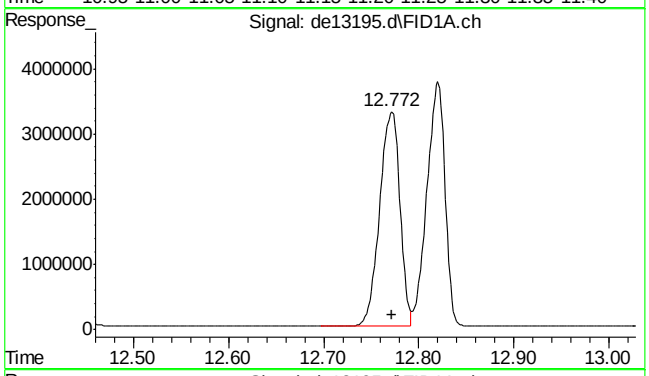
9

SGS ACCUTEST MC45897



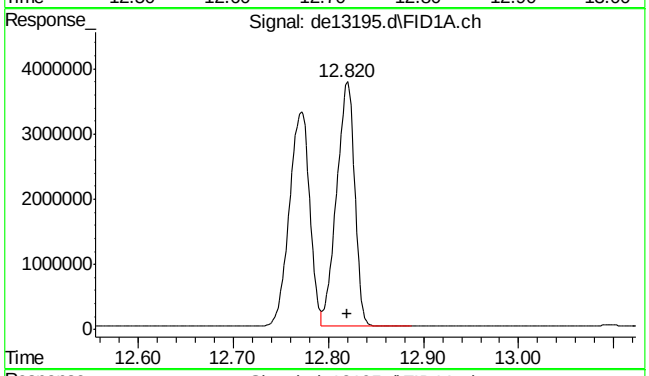
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5123787
Conc: 50.16 µg/ml



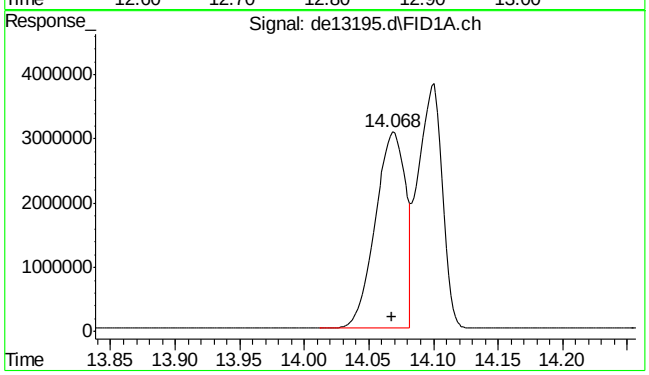
#14 benzo(a)anthracene

R.T.: 12.772 min
Delta R.T.: 0.000 min
Response: 4883350
Conc: 50.33 µg/ml



#15 chrysene

R.T.: 12.820 min
Delta R.T.: 0.000 min
Response: 4951740
Conc: 50.66 µg/ml



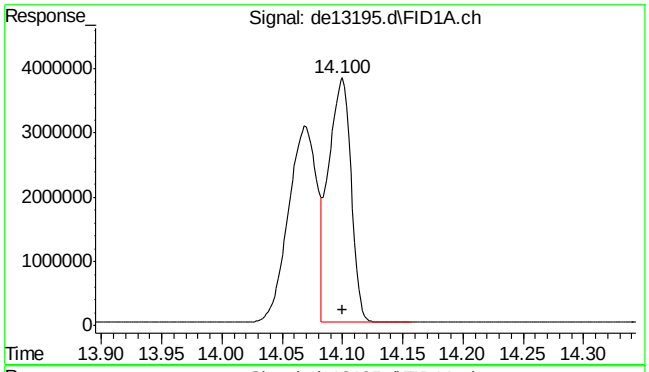
#16 benzo(B)fluoranthene

R.T.: 14.068 min
Delta R.T.: 0.000 min
Response: 4980192
Conc: 49.82 µg/ml

9.5.5

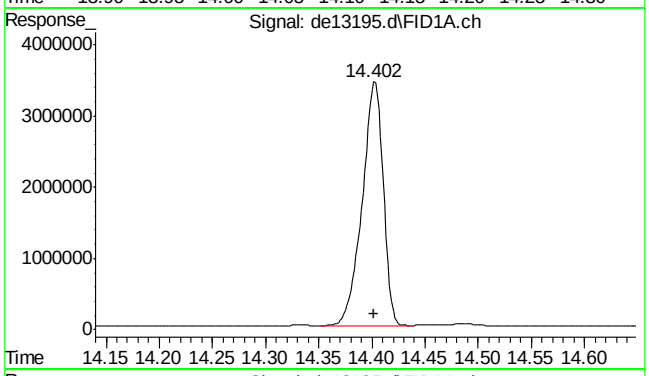
9

SGS ACCUTEST MC45897



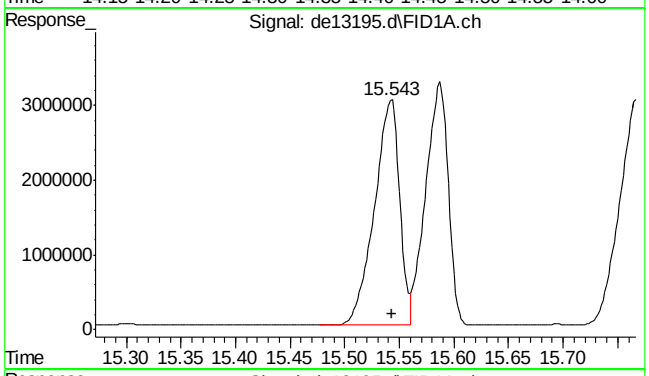
#17 benzo(k)fluoranthene

R.T.: 14.100 min
Delta R.T.: 0.000 min
Response: 4922694
Conc: 51.39 µg/ml



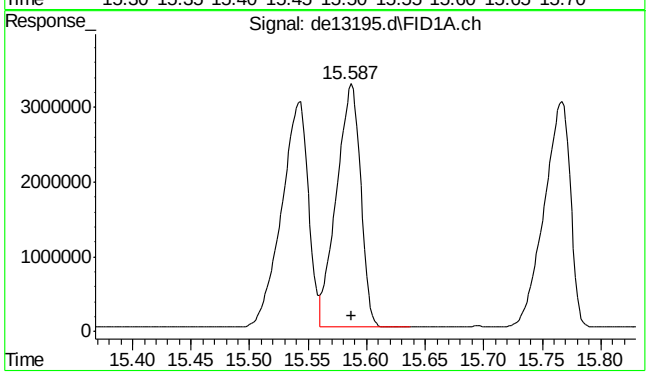
#18 benzo(a)pyrene

R.T.: 14.402 min
Delta R.T.: 0.000 min
Response: 4724847
Conc: 50.44 µg/ml



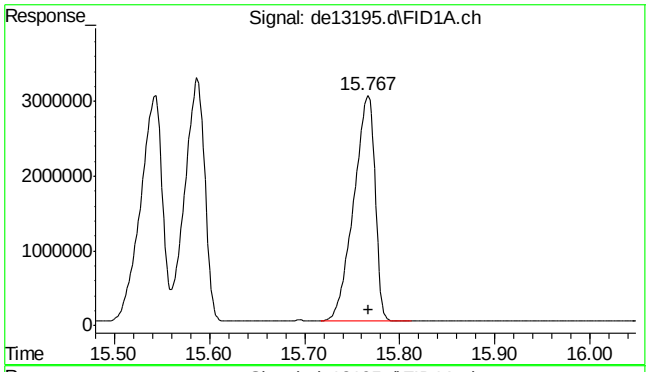
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4854725
Conc: 50.33 µg/ml m



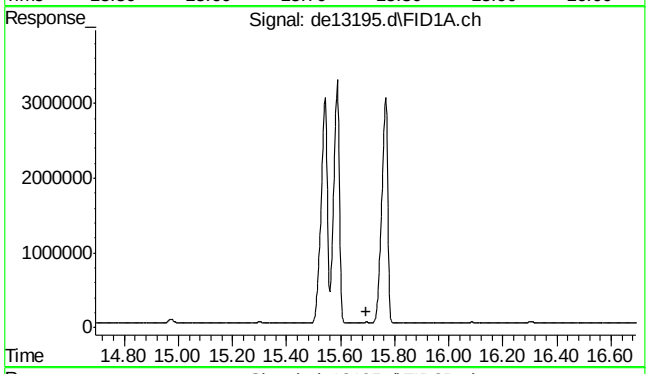
#20 dibenzo(ah)anthracene

R.T.: 15.587 min
Delta R.T.: 0.000 min
Response: 4685536
Conc: 50.80 µg/ml m



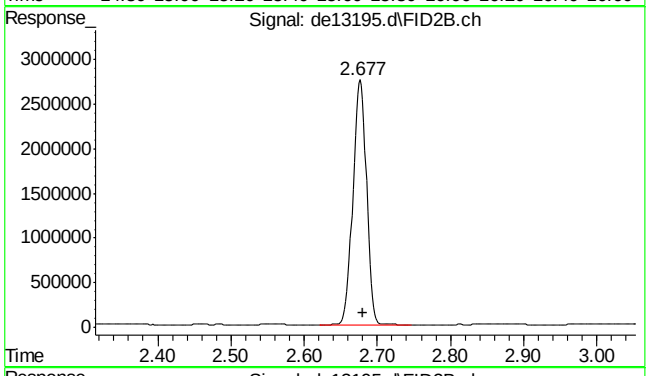
#21 benzo(ghi)perylene

R.T.: 15.767 min
Delta R.T.: 0.000 min
Response: 4705124
Conc: 50.47 µg/ml



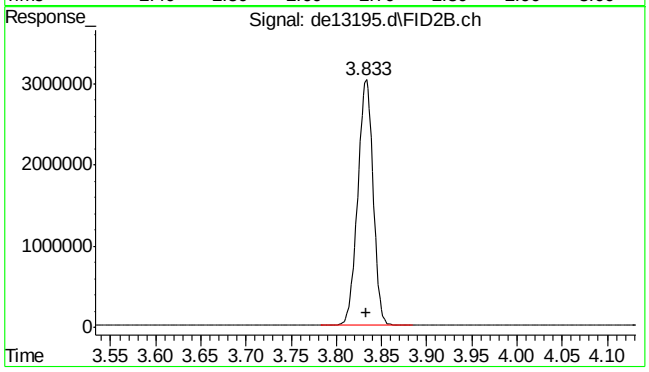
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3541836
Conc: 46.37 µg/ml m



#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3570776
Conc: 46.37 µg/ml

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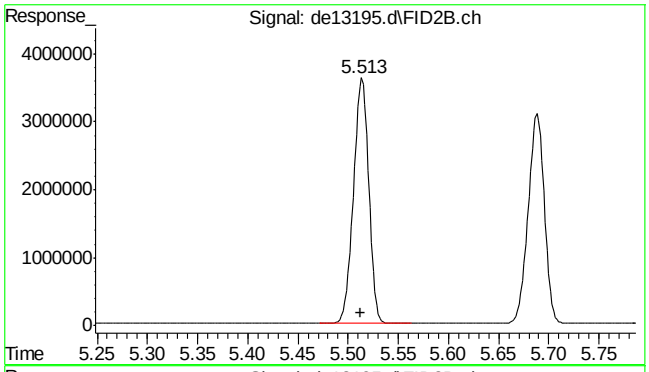
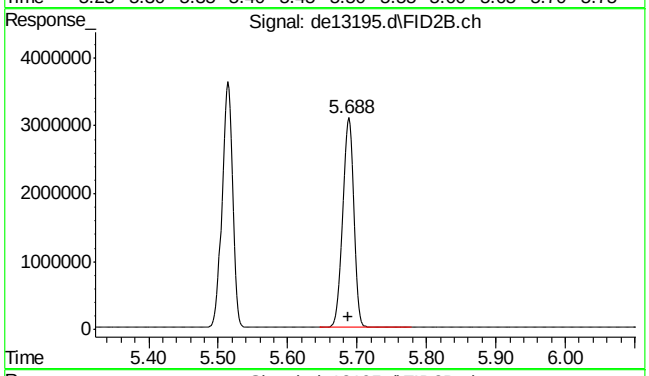


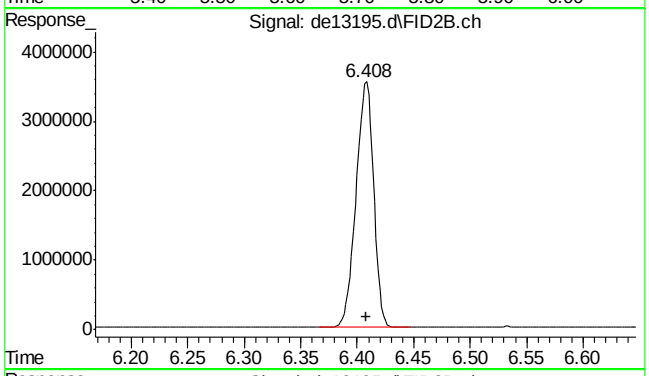
#27 naphthalene #2

R.T.: 5.513 min
Delta R.T.: 0.000 min
Response: 3805435
Conc: 47.63 µg/ml



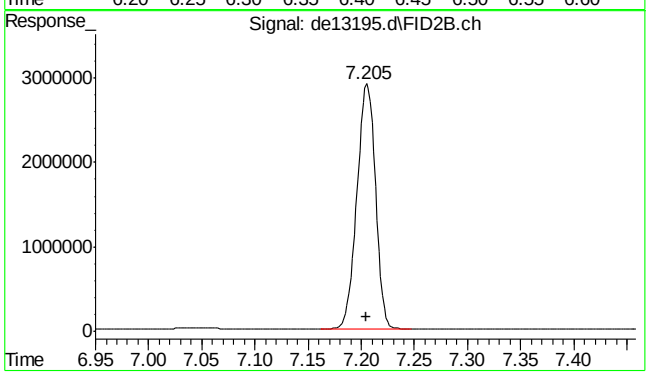
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3545795
Conc: 46.34 µg/ml



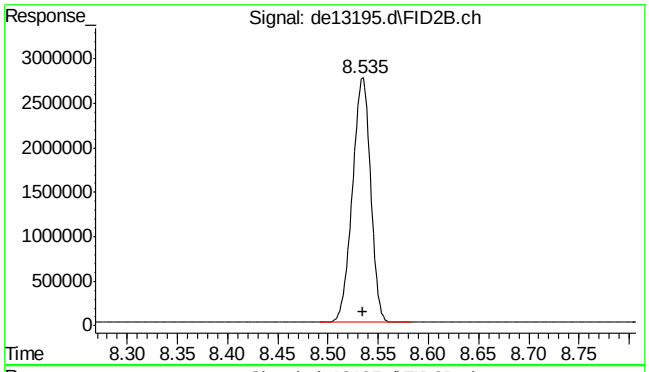
#29 2-methylnaphthalene #2

R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3803724
Conc: 46.79 µg/ml



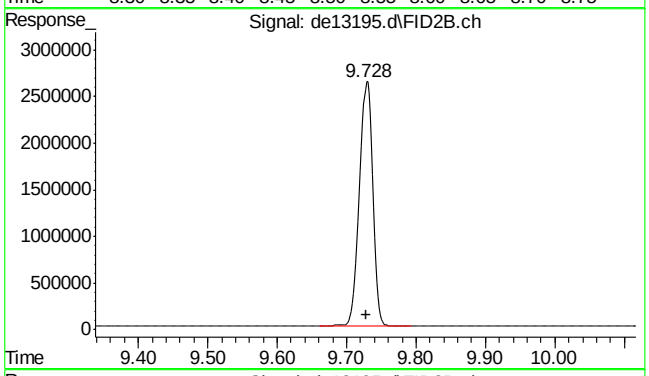
#30 c-14

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3516096
Conc: 46.03 µg/ml



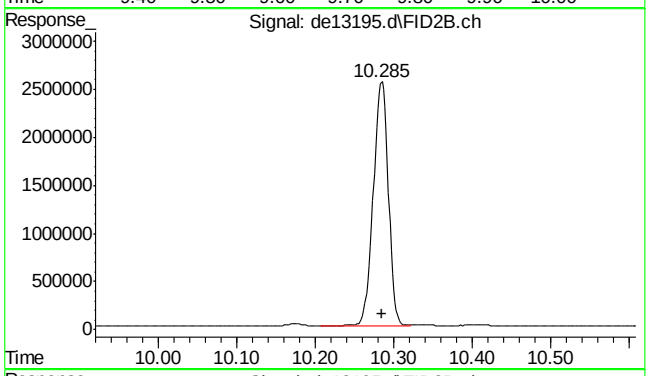
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3450251
Conc: 45.52 µg/ml



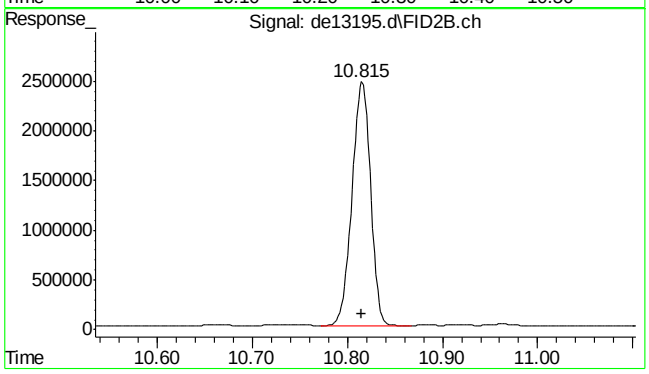
#32 c-18

R.T.: 9.728 min
Delta R.T.: 0.000 min
Response: 3414559
Conc: 45.53 µg/ml



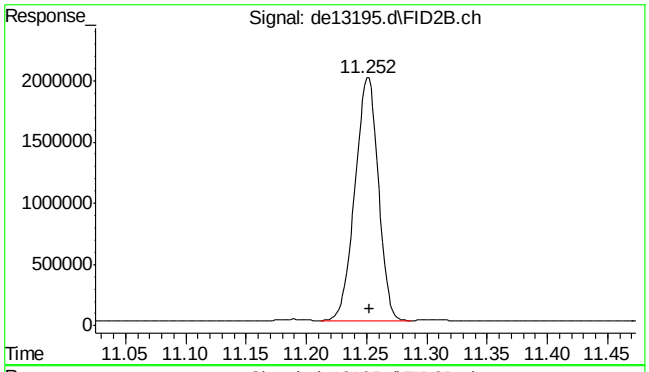
#33 c-19

R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3383527
Conc: 46.15 µg/ml



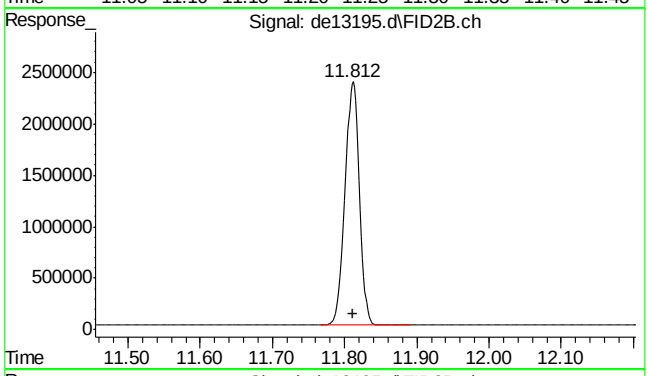
#34 c-20

R.T.: 10.815 min
Delta R.T.: 0.000 min
Response: 3319667
Conc: 46.22 µg/ml



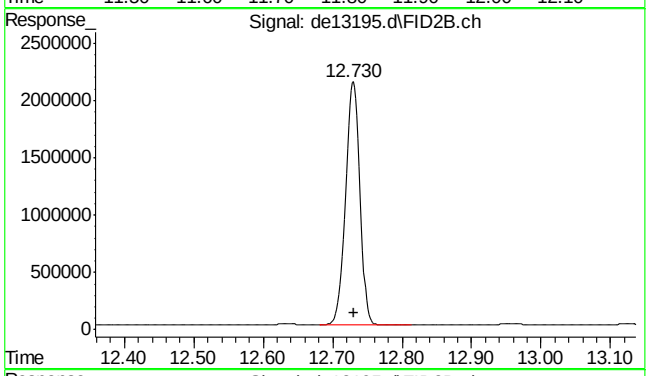
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2679754
Conc: 47.47 µg/ml



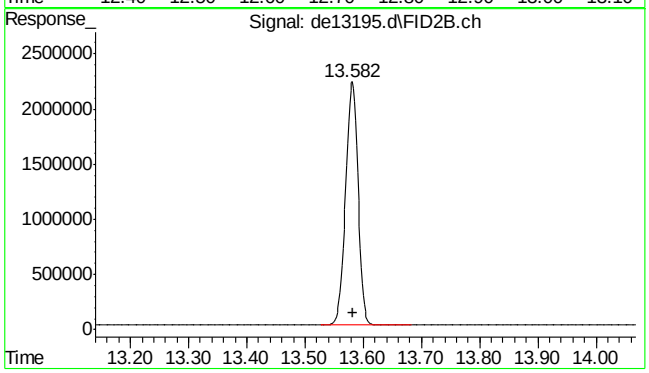
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3288115
Conc: 46.44 µg/ml



#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3065680
Conc: 45.78 µg/ml



#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3260990
Conc: 46.52 µg/ml

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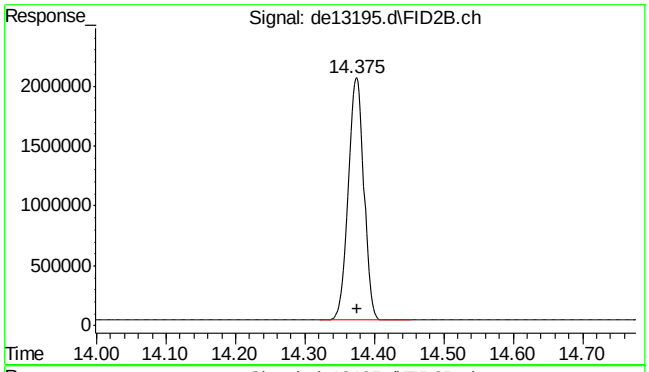
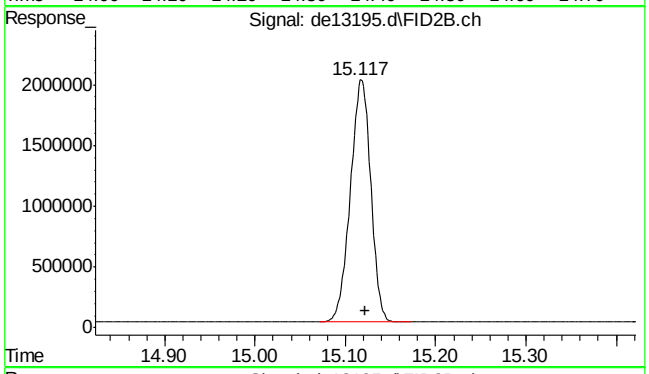


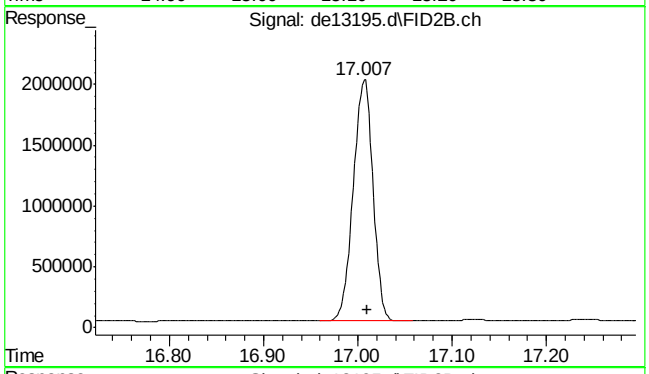
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3155644
Conc: 46.53 µg/ml



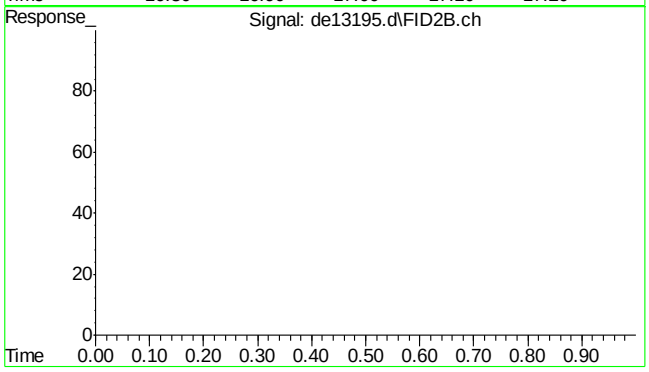
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3152151
Conc: 45.84 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2883025
Conc: 47.18 µg/ml m



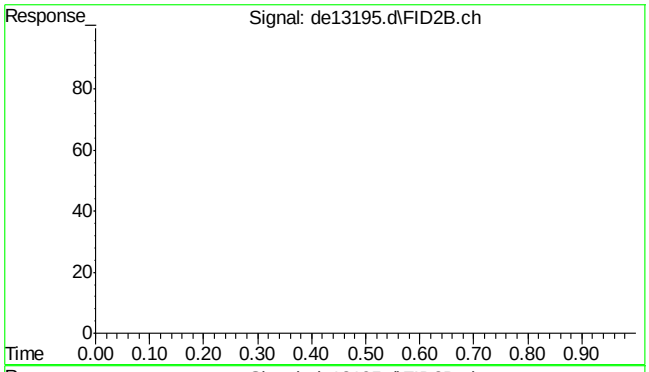
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.5

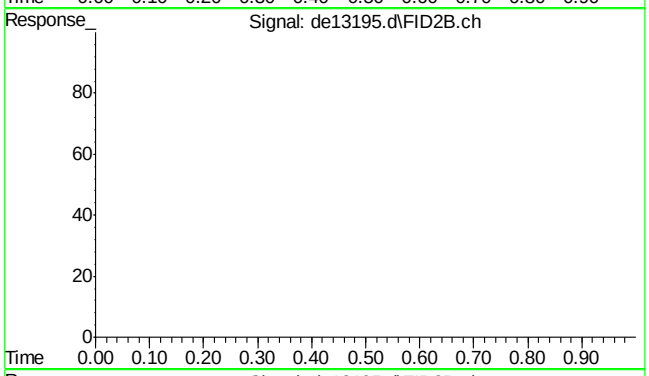
9

SGS ACCUTEST MC45897



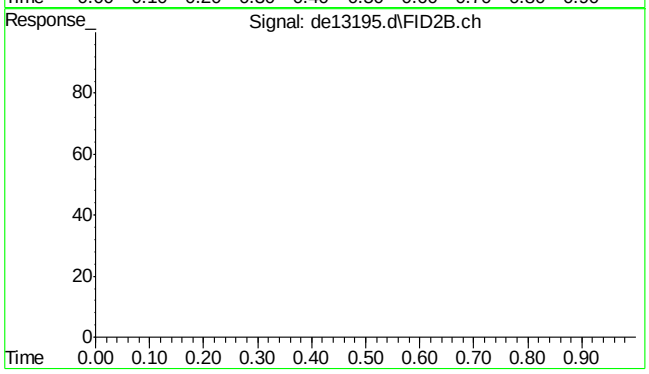
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

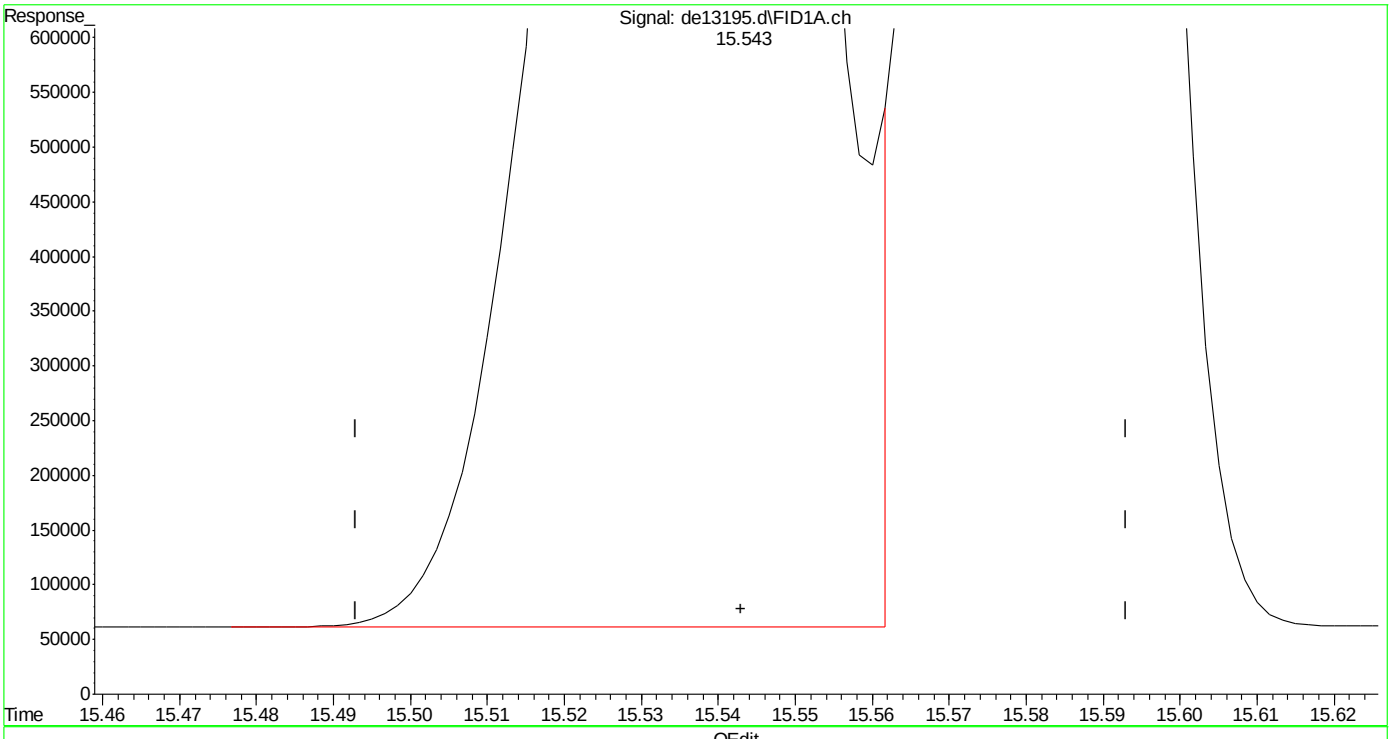
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.543min 50.804 µg/ml
response 4900817

(+) = Expected Retention Time

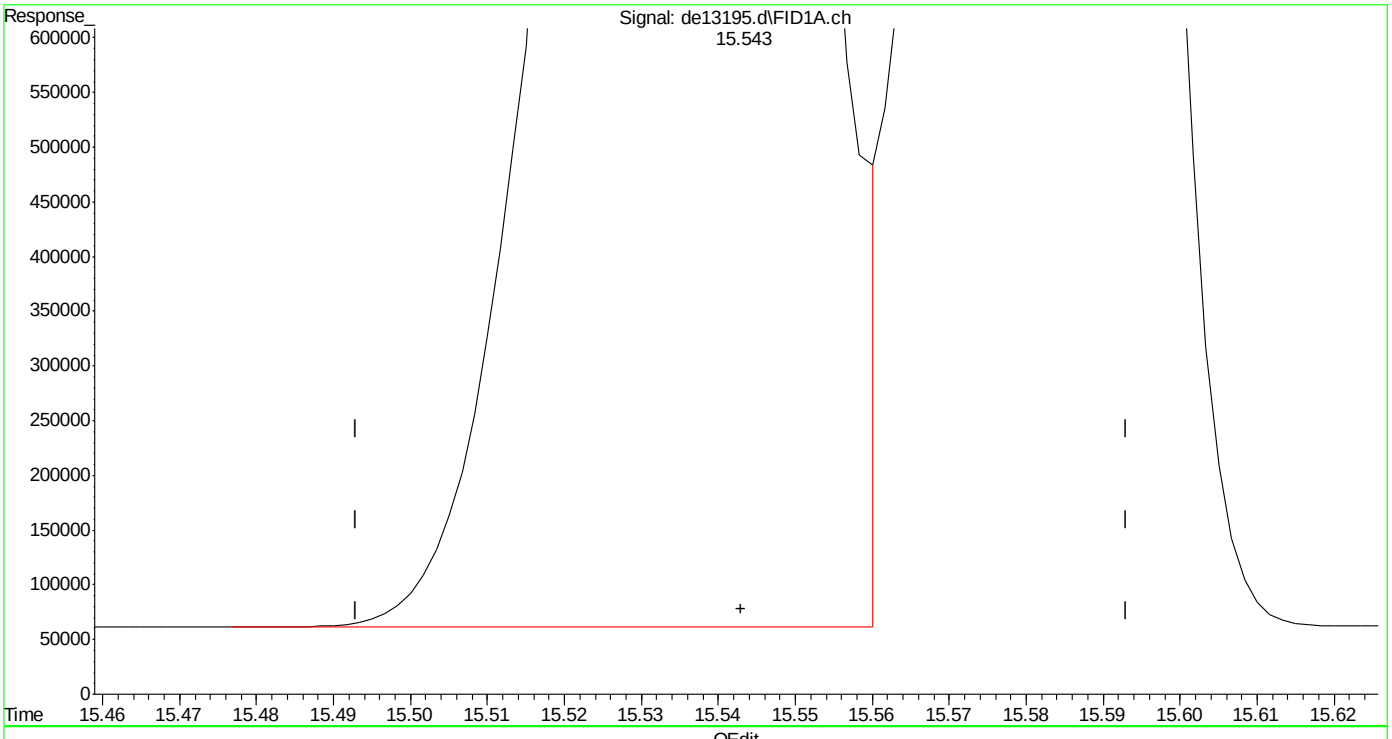
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.543min 50.326 µg/ml m
response 4854725

(+) = Expected Retention Time

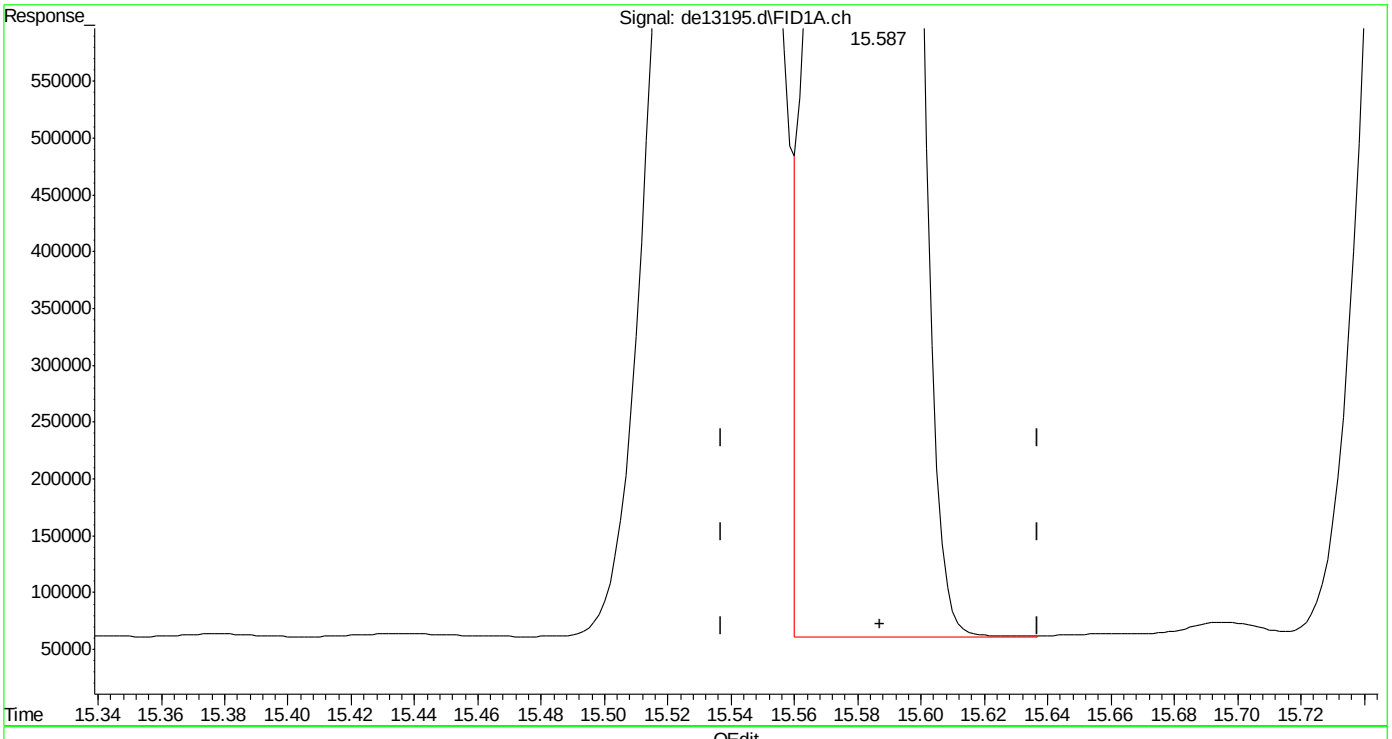
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.587min 50.795 µg/ml m
response 4685536

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.807	8980683	96.248 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 481.24%#	
6) s 2-bromonaphthalene	7.540	6121297	96.499 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 482.49%#	
11) s o-terphenyl	10.087	9937595	96.373 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 481.87%#	
35) s 1-chlorooctadecane	11.253	5337791	94.549 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 472.75%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	164719881	99.532 µg/mlm
2) naphthalene	5.358	10142634	96.942 µg/ml
3) 2-methylnaphthalene	6.257	9997868	96.348 µg/ml
5) acenaphthylene	7.375	9776029	95.799 µg/ml
7) acenaphthene	7.618	10095451	96.622 µg/ml
8) fluorene	8.263	9889893	96.350 µg/ml
9) phenanthrene	9.448	9875264	96.257 µg/ml
10) anthracene	9.507	9378790	97.021 µg/ml
12) fluoranthene	10.957	9629565	95.613 µg/ml
13) pyrene	11.217	9876553	96.690 µg/ml
14) benzo(a)anthracene	12.778	9324427	96.095 µg/mlm
15) chrysene	12.830	9386529	96.029 µg/mlm
16) benzo(B)fluoranthene	14.078	9460698	94.644 µg/ml
17) benzo(k)fluoranthene	14.113	9345183	97.563 µg/ml
18) benzo(a)pyrene	14.417	8964794	95.712 µg/ml
19) indeno(1,2,3-cd)pyrene	15.555	9240715	95.924 µg/ml
20) dibenzo(ah)anthracene	15.600	8726656	94.448 µg/ml
21) benzo(ghi)perylene	15.782	8869696	95.141 µg/ml
25) h c-9	2.680	7080731	92.721 µg/mlm
26) h c-10	3.833	7121293	92.471 µg/ml
27) naphthalene #2	5.518	7593446	95.036 µg/ml
28) c-12	5.692	7047399	92.105 µg/ml
29) 2-methylnaphthalene #2	6.412	7564728	93.063 µg/ml
30) c-14	7.208	6951061	90.996 µg/ml
31) c-16	8.538	6811631	89.870 µg/ml
32) c-18	9.732	6758324	90.119 µg/ml
33) c-19	10.288	6704725	91.450 µg/ml
34) c-20	10.818	6591283	91.774 µg/ml
36) c-22	11.815	6550653	92.519 µg/ml
37) c-24	12.733	6102937	91.140 µg/ml

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.585	6486501	92.533	µg/ml
39)		c-28	14.378	6270223	92.446	µg/ml
40)	h	c-30	15.122	6235140	90.668	µg/ml
41)	h	c-36	17.010	5572797	91.214	µg/mlm

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

9.5.6

9

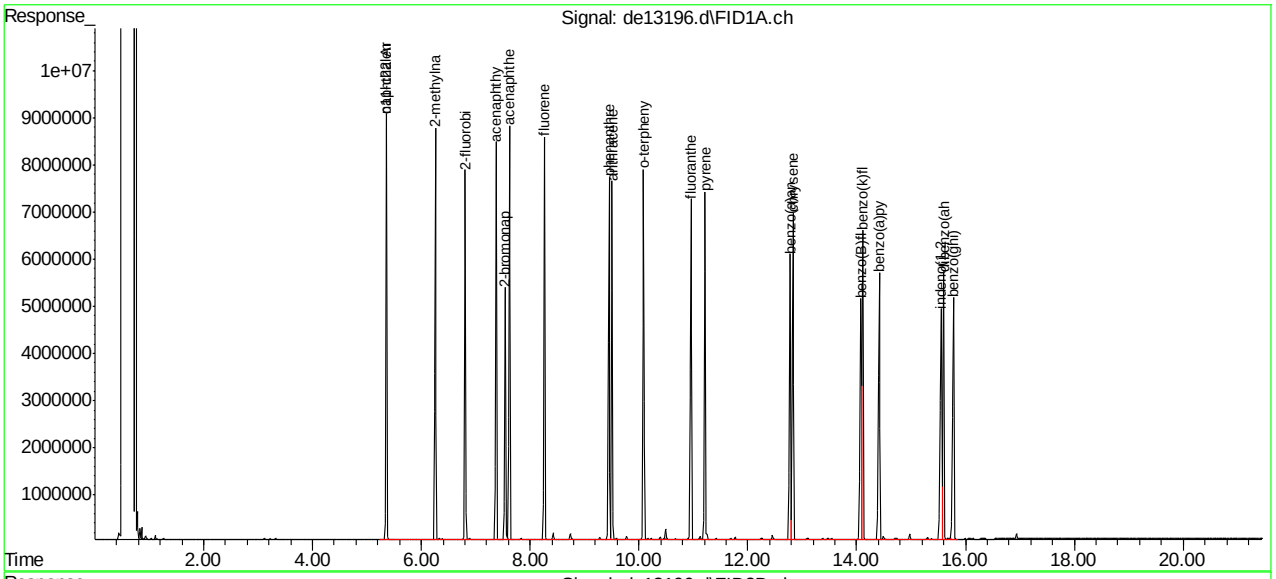
SGS ACCUTEST MC45897

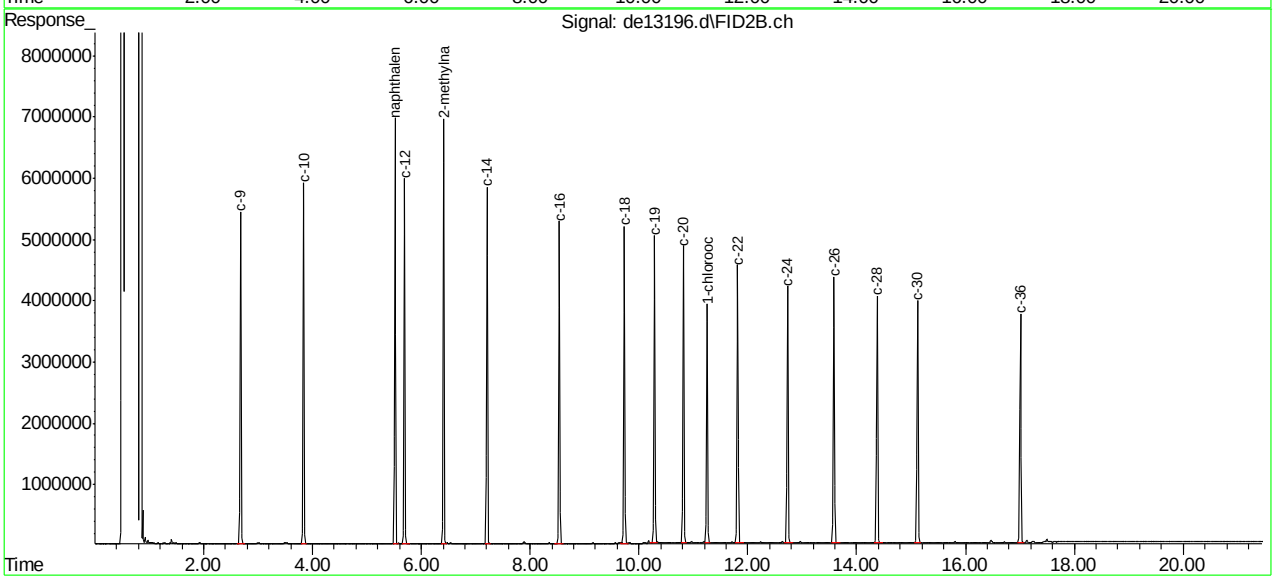
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

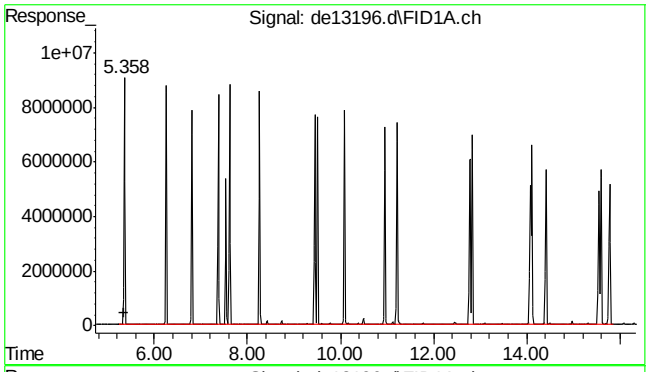
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



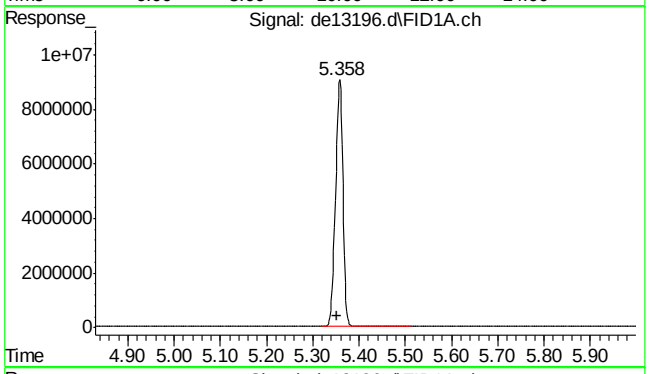


SGS ACCUTEST MC45897



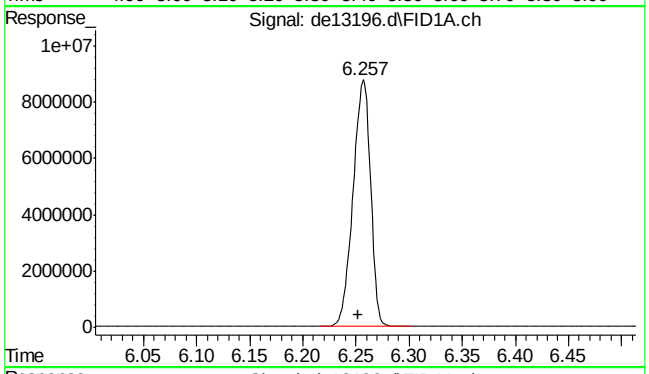
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 164719881
Conc: 99.53 µg/ml m



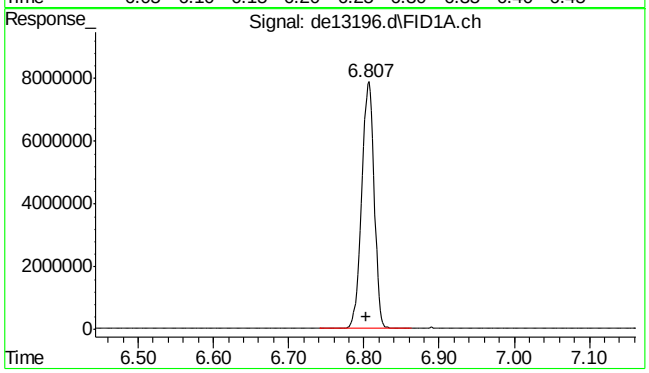
#2 naphthalene

R.T.: 5.358 min
Delta R.T.: 0.005 min
Response: 10142634
Conc: 96.94 µg/ml



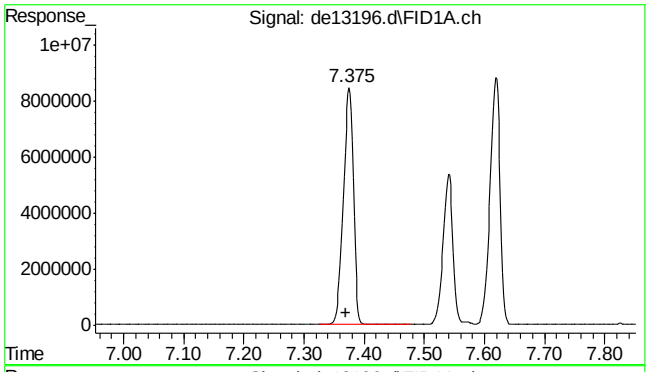
#3 2-methylnaphthalene

R.T.: 6.257 min
Delta R.T.: 0.005 min
Response: 9997868
Conc: 96.35 µg/ml



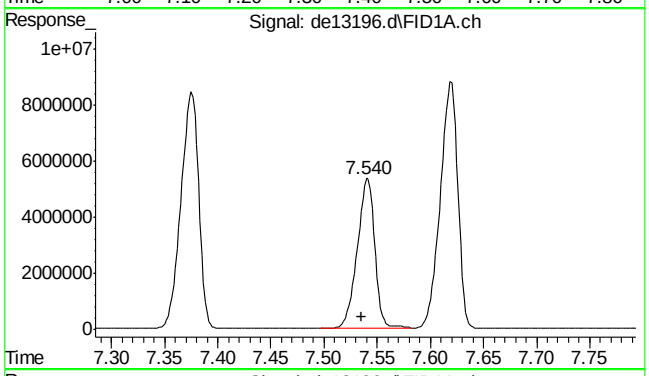
#4 2-fluorobiphenyl

R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 8980683
Conc: 96.25 µg/ml



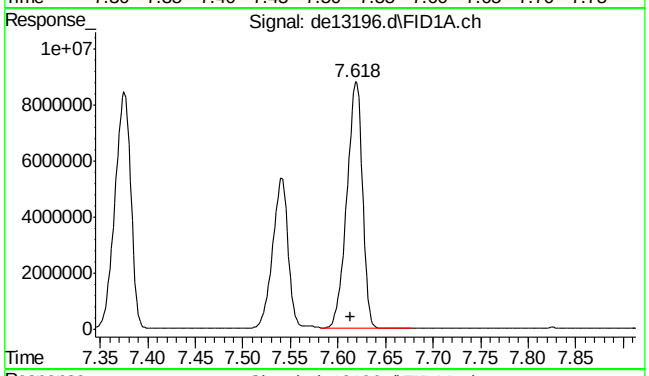
#5 acenaphthylene

R.T.: 7.375 min
Delta R.T.: 0.005 min
Response: 9776029
Conc: 95.80 µg/ml



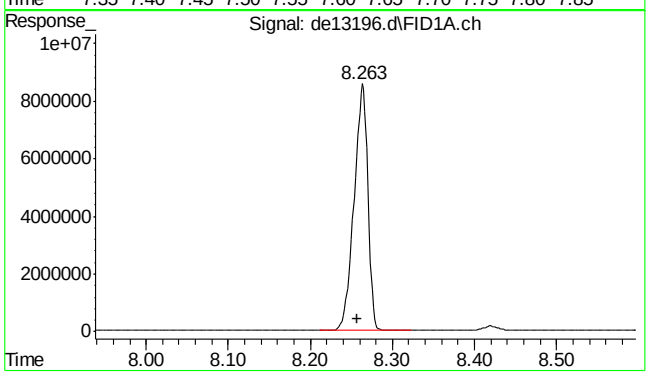
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 6121297
Conc: 96.50 µg/ml



#7 acenaphthene

R.T.: 7.618 min
Delta R.T.: 0.005 min
Response: 10095451
Conc: 96.62 µg/ml



#8 fluorene

R.T.: 8.263 min
Delta R.T.: 0.006 min
Response: 9889893
Conc: 96.35 µg/ml

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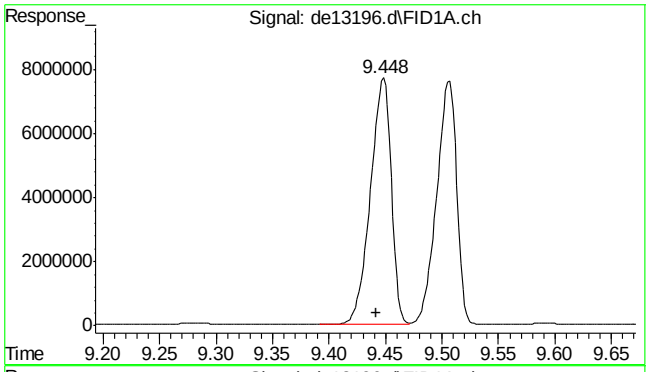
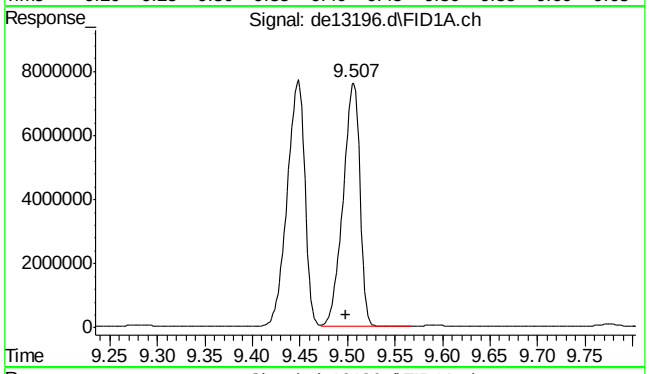


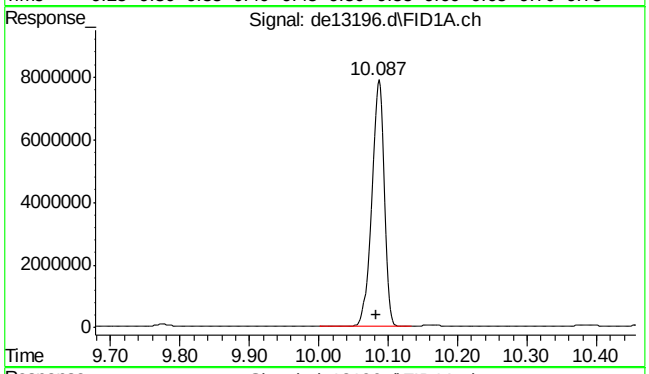
#9 phenanthrene

R.T.: 9.448 min
Delta R.T.: 0.006 min
Response: 9875264
Conc: 96.26 µg/ml



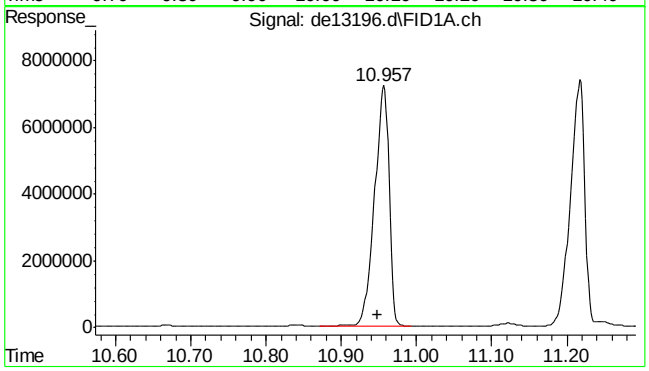
#10 anthracene

R.T.: 9.507 min
Delta R.T.: 0.009 min
Response: 9378790
Conc: 97.02 µg/ml



#11 o-terphenyl

R.T.: 10.087 min
Delta R.T.: 0.004 min
Response: 9937595
Conc: 96.37 µg/ml



#12 fluoranthene

R.T.: 10.957 min
Delta R.T.: 0.009 min
Response: 9629565
Conc: 95.61 µg/ml

9.5.6

9

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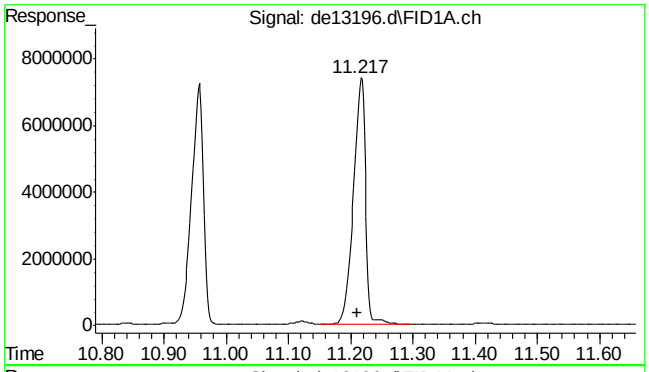
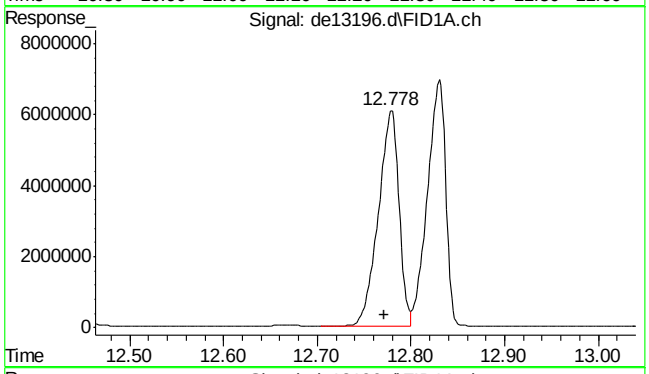


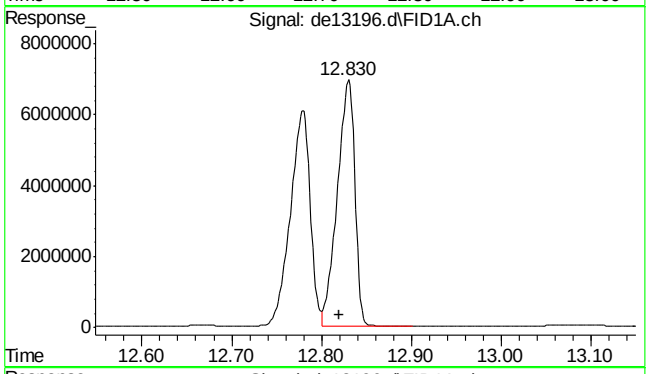
#13 pyrene

R.T.: 11.217 min
Delta R.T.: 0.007 min
Response: 9876553
Conc: 96.69 µg/ml



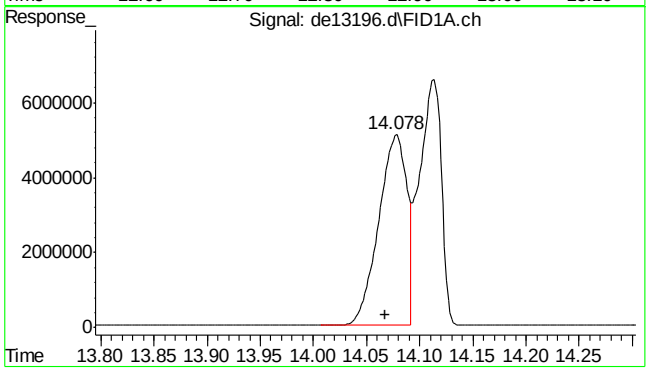
#14 benzo(a)anthracene

R.T.: 12.778 min
Delta R.T.: 0.006 min
Response: 9324427
Conc: 96.10 µg/ml m



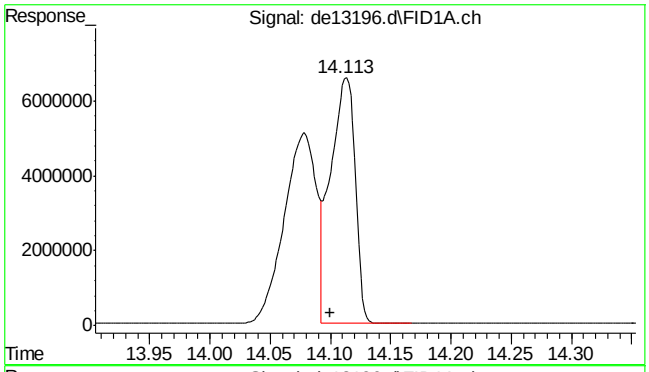
#15 chrysene

R.T.: 12.830 min
Delta R.T.: 0.010 min
Response: 9386529
Conc: 96.03 µg/ml m



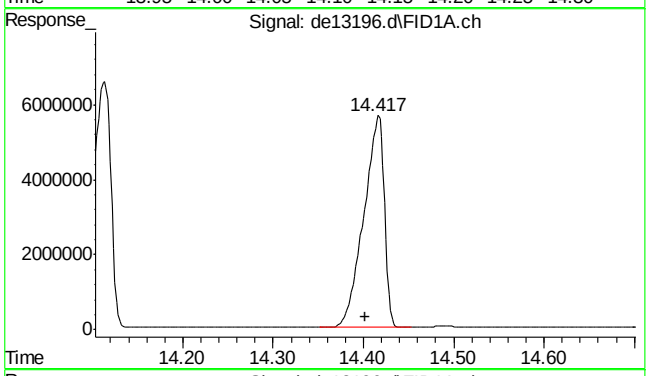
#16 benzo(B)fluoranthene

R.T.: 14.078 min
Delta R.T.: 0.010 min
Response: 9460698
Conc: 94.64 µg/ml



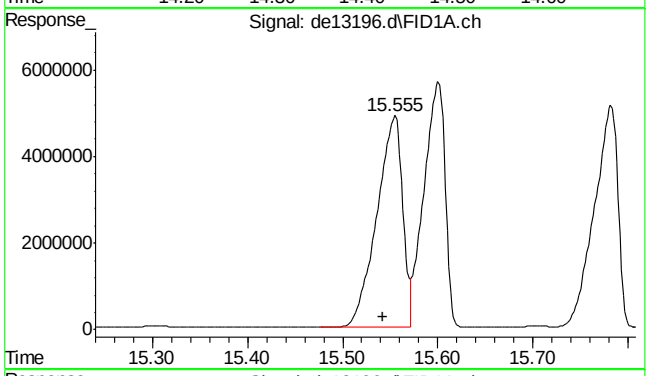
#17 benzo(k)fluoranthene

R.T.: 14.113 min
Delta R.T.: 0.013 min
Response: 9345183
Conc: 97.56 µg/ml



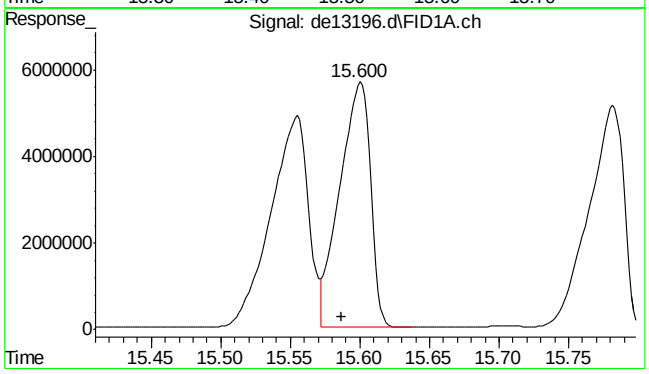
#18 benzo(a)pyrene

R.T.: 14.417 min
Delta R.T.: 0.015 min
Response: 8964794
Conc: 95.71 µg/ml



#19 indeno(1,2,3-cd)pyrene

R.T.: 15.555 min
Delta R.T.: 0.012 min
Response: 9240715
Conc: 95.92 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.600 min
Delta R.T.: 0.013 min
Response: 8726656
Conc: 94.45 µg/ml

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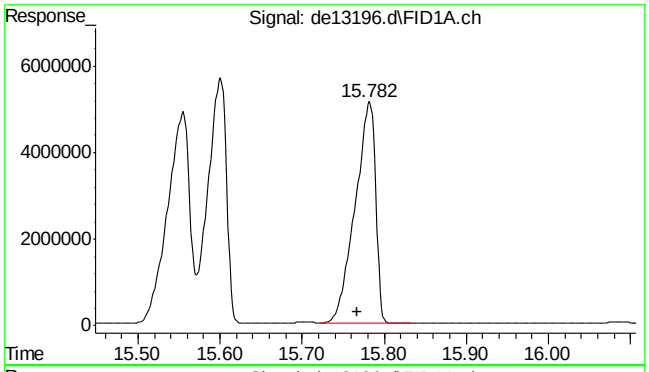
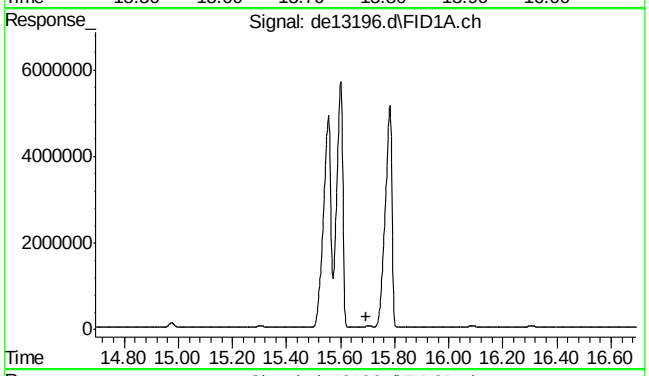


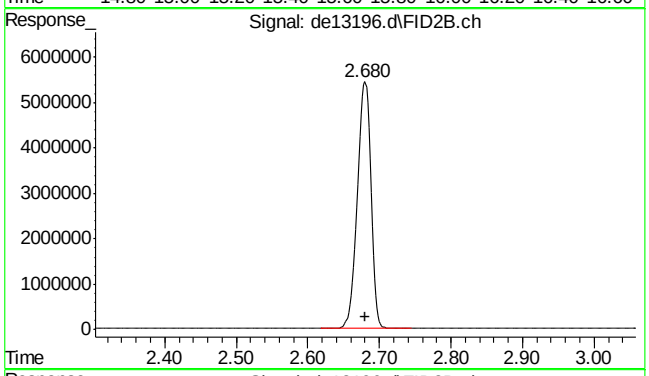
#21 benzo(ghi)perylene

R.T.: 15.782 min
Delta R.T.: 0.015 min
Response: 8869696
Conc: 95.14 µg/ml



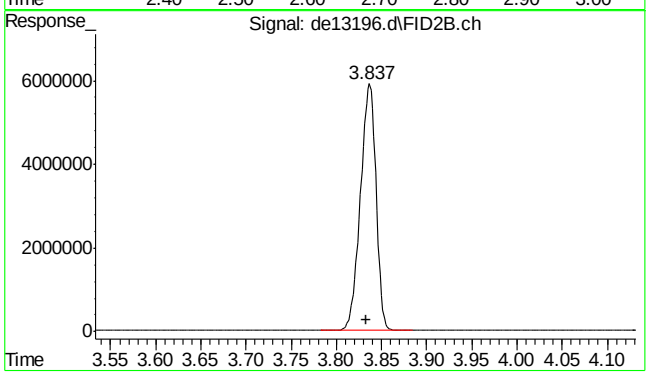
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



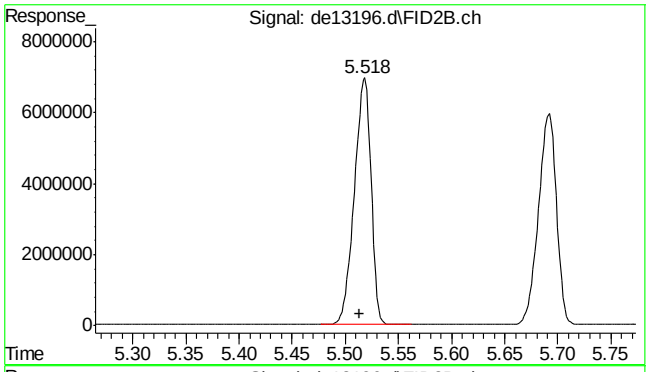
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 7080731
Conc: 92.72 µg/ml m



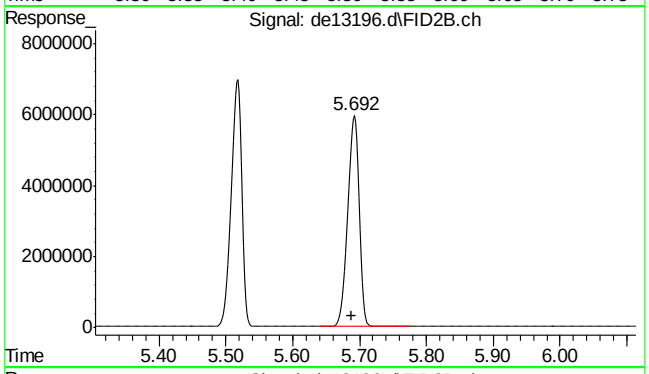
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 7121293
Conc: 92.47 µg/ml



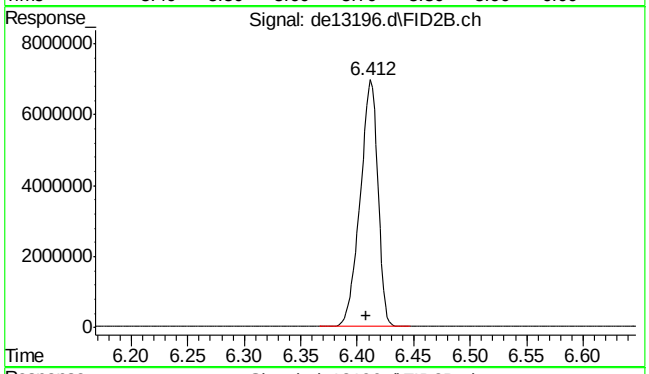
#27 naphthalene #2

R.T.: 5.518 min
Delta R.T.: 0.005 min
Response: 7593446
Conc: 95.04 µg/ml



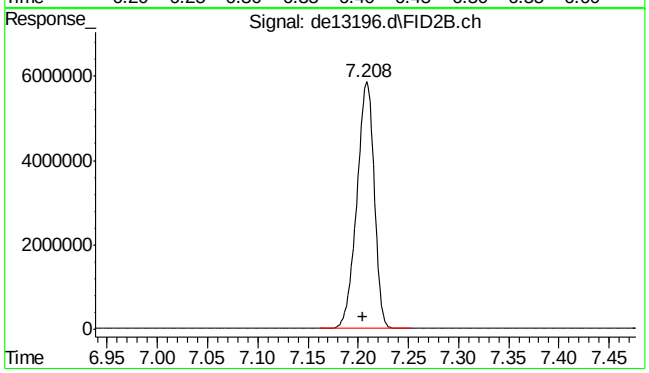
#28 c-12

R.T.: 5.692 min
Delta R.T.: 0.004 min
Response: 7047399
Conc: 92.10 µg/ml



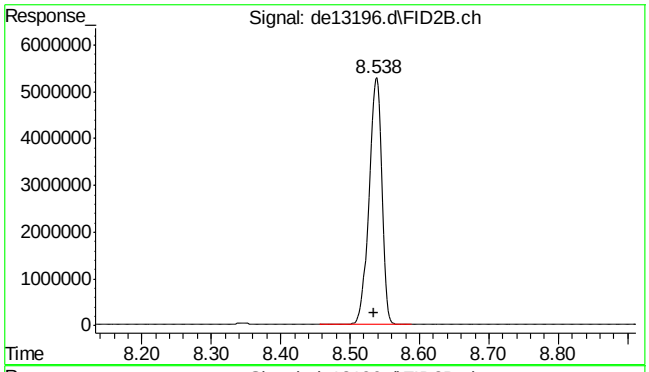
#29 2-methylnaphthalene #2

R.T.: 6.412 min
Delta R.T.: 0.004 min
Response: 7564728
Conc: 93.06 µg/ml



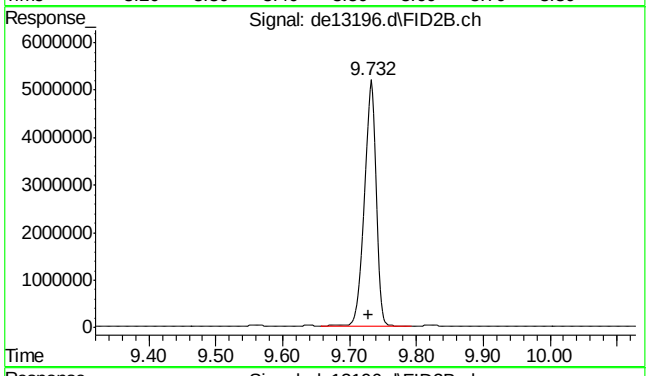
#30 c-14

R.T.: 7.208 min
Delta R.T.: 0.003 min
Response: 6951061
Conc: 91.00 µg/ml



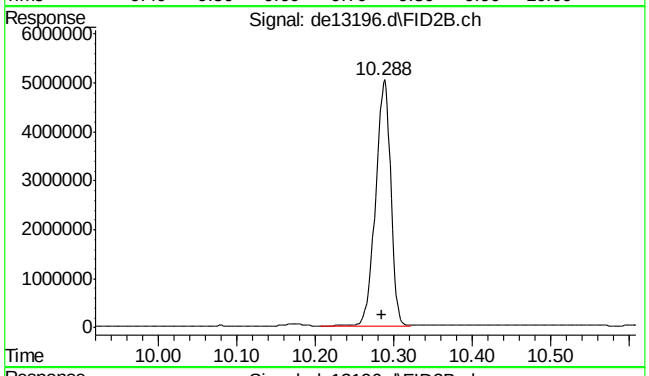
#31 c-16

R.T.: 8.538 min
Delta R.T.: 0.003 min
Response: 6811631
Conc: 89.87 µg/ml



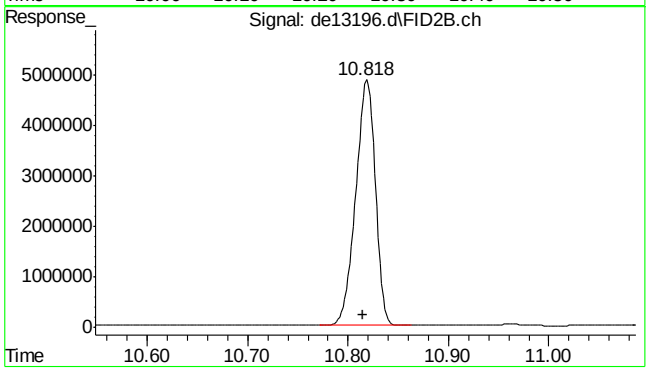
#32 c-18

R.T.: 9.732 min
Delta R.T.: 0.004 min
Response: 6758324
Conc: 90.12 µg/ml



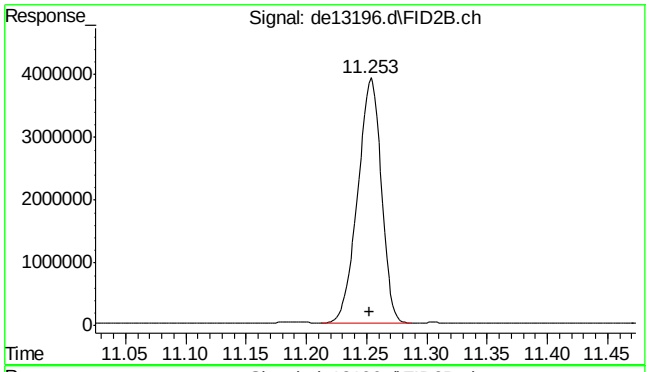
#33 c-19

R.T.: 10.288 min
Delta R.T.: 0.003 min
Response: 6704725
Conc: 91.45 µg/ml



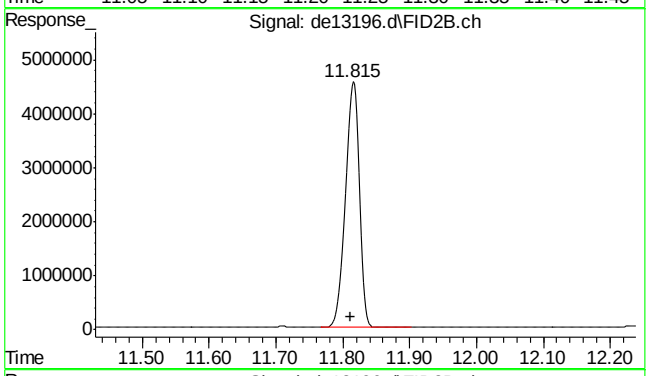
#34 c-20

R.T.: 10.818 min
Delta R.T.: 0.003 min
Response: 6591283
Conc: 91.77 µg/ml



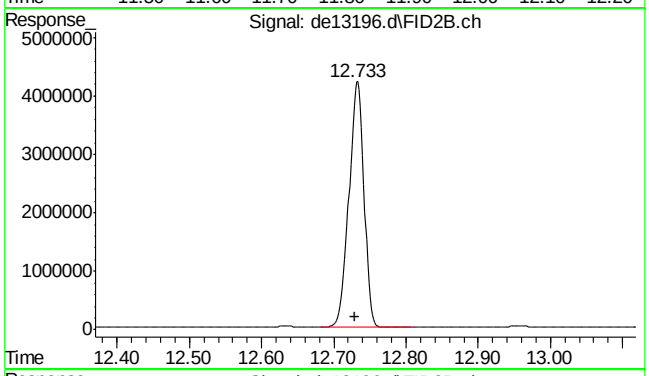
#35 1-chlorooctadecane

R.T.: 11.253 min
Delta R.T.: 0.001 min
Response: 5337791
Conc: 94.55 µg/ml



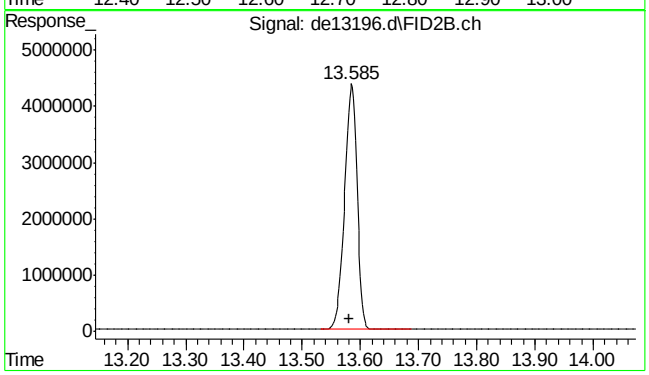
#36 c-22

R.T.: 11.815 min
Delta R.T.: 0.003 min
Response: 6550653
Conc: 92.52 µg/ml



#37 c-24

R.T.: 12.733 min
Delta R.T.: 0.003 min
Response: 6102937
Conc: 91.14 µg/ml



#38 c-26

R.T.: 13.585 min
Delta R.T.: 0.003 min
Response: 6486501
Conc: 92.53 µg/ml

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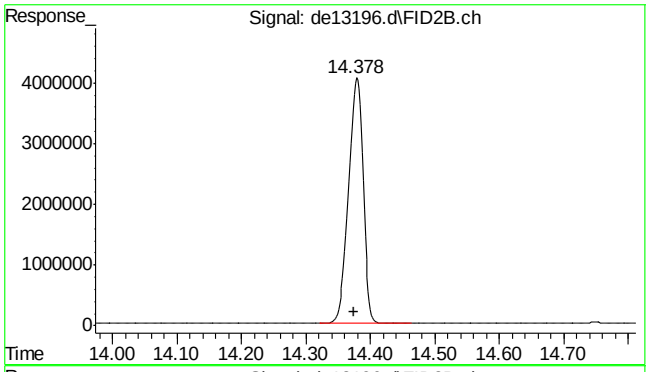
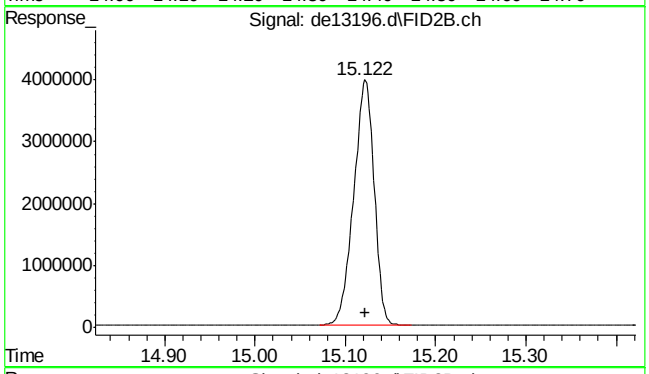


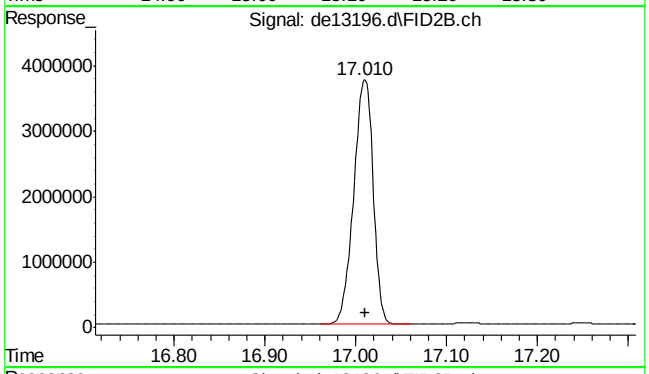
#39 c-28

R.T.: 14.378 min
Delta R.T.: 0.003 min
Response: 6270223
Conc: 92.45 µg/ml



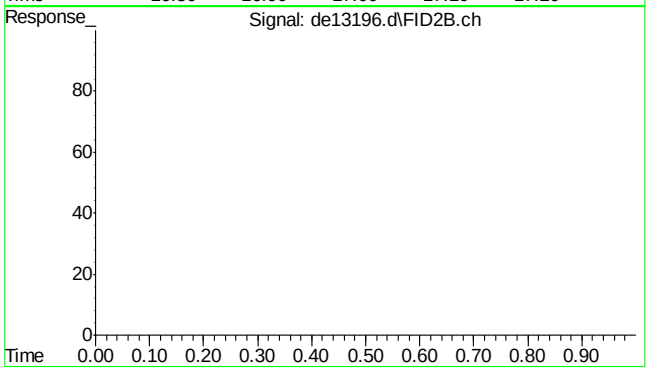
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 6235140
Conc: 90.67 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 5572797
Conc: 91.21 µg/ml m



#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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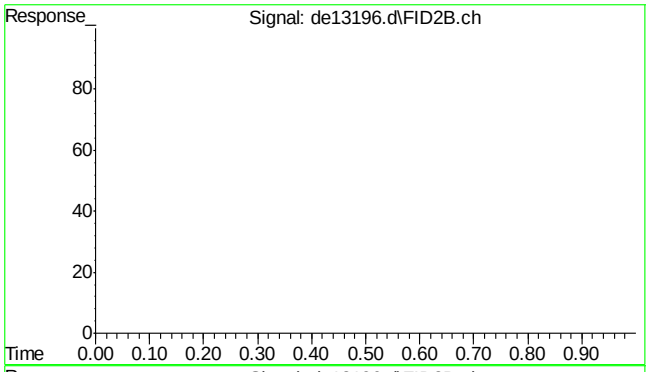
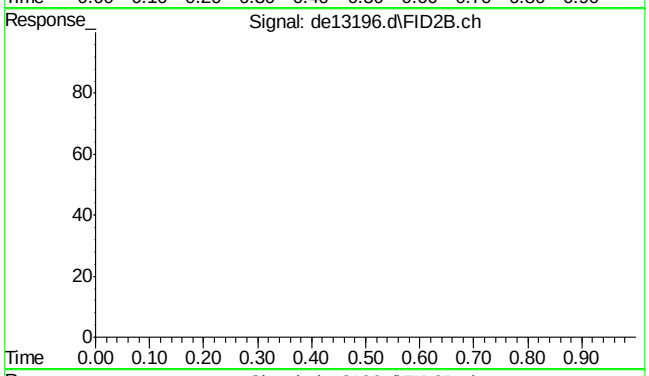


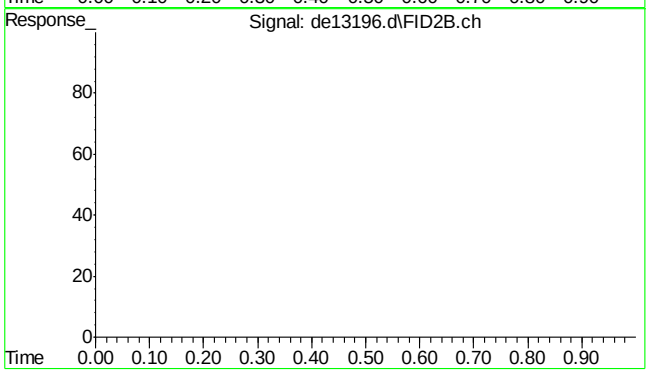
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

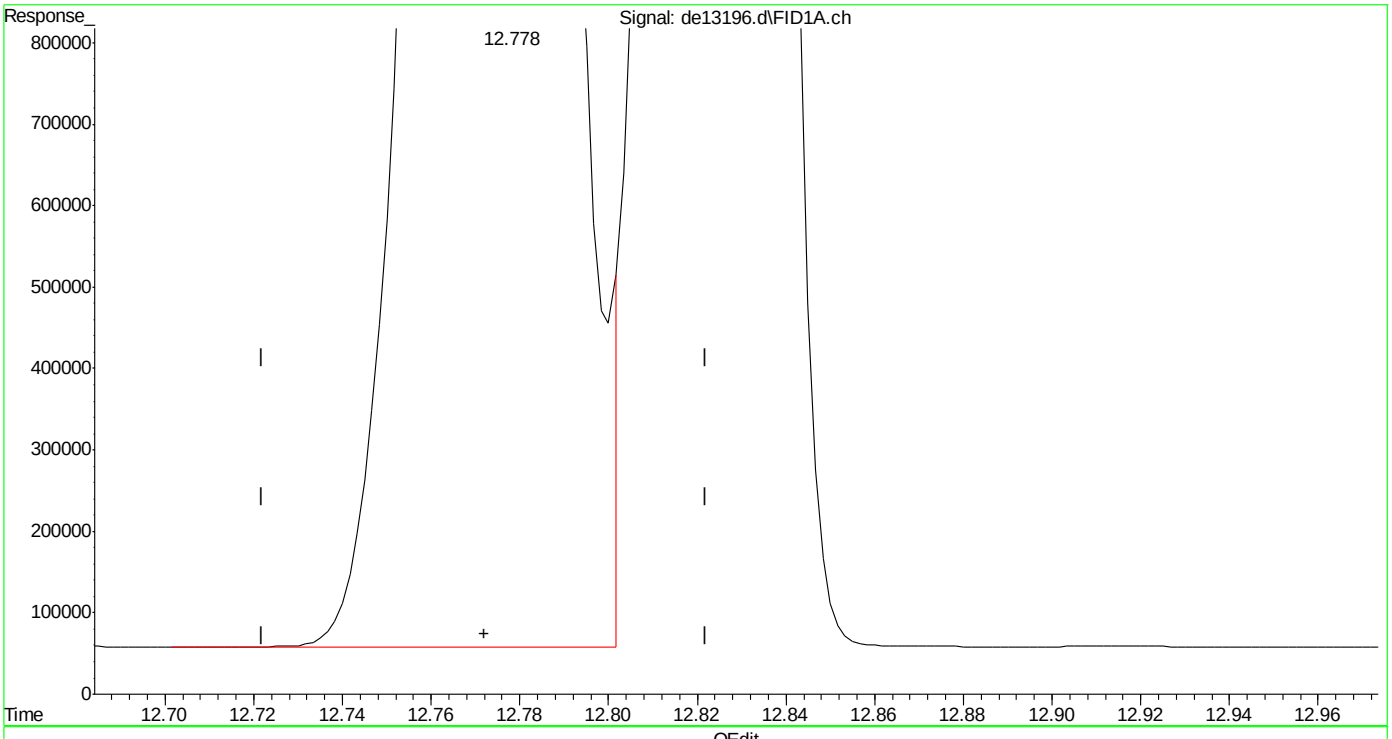
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.778min 96.536 µg/ml
response 9367180

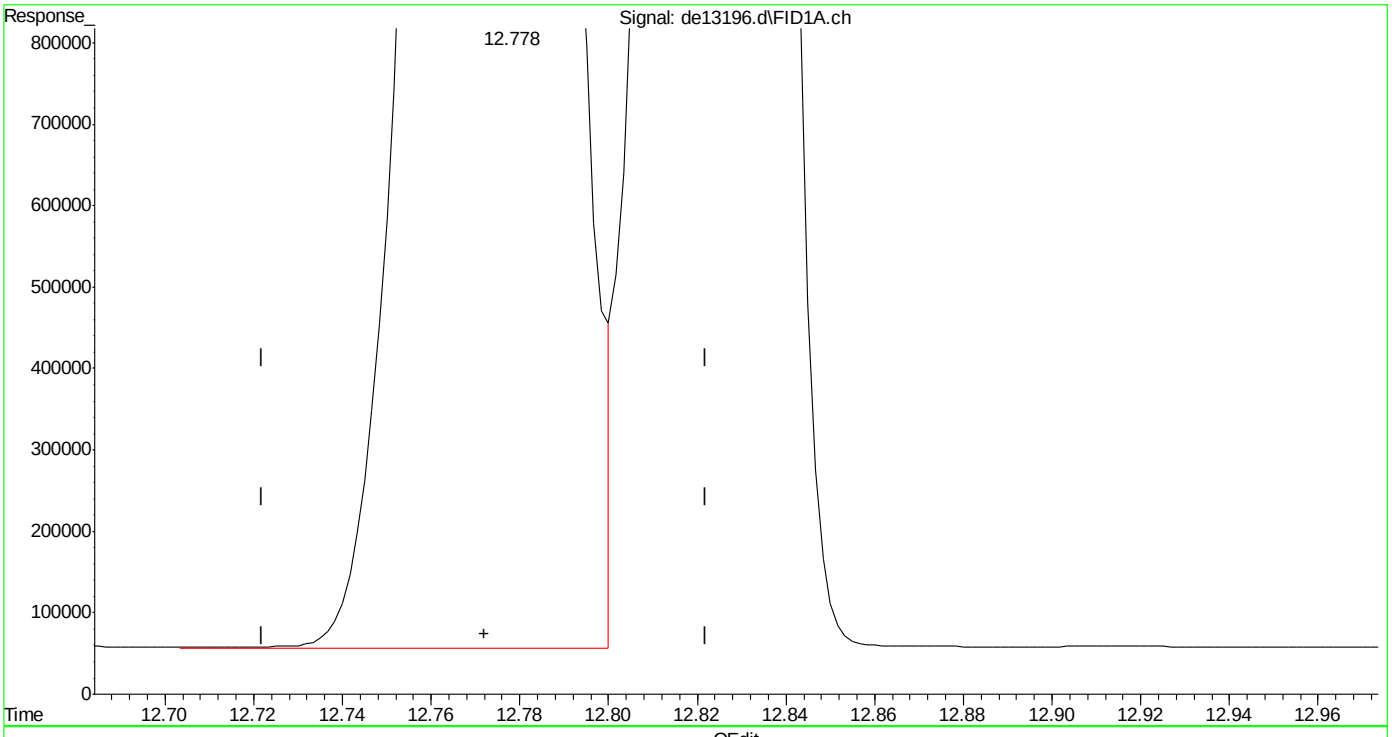
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.778min 96.095 µg/ml m
response 9324427

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:00:52 2016

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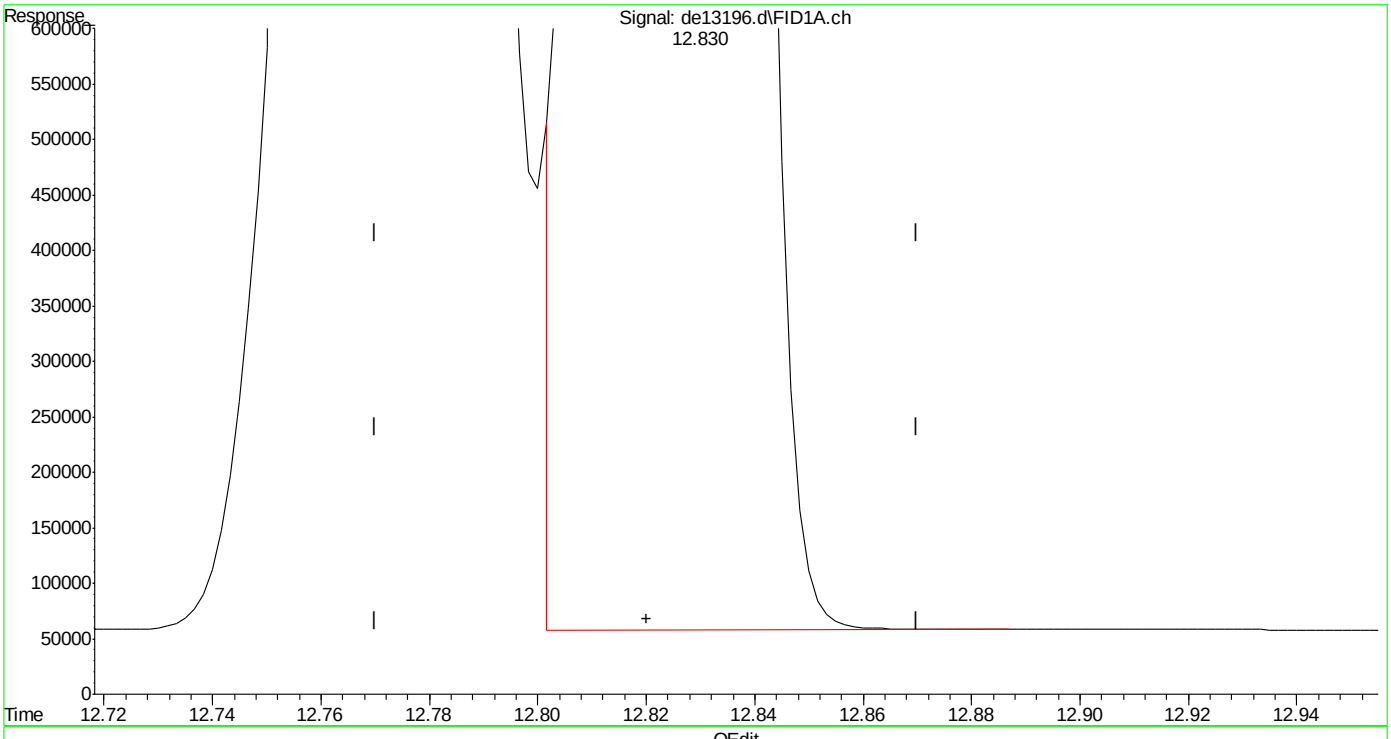
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.830min 95.489 µg/ml
response 9333760

(+) = Expected Retention Time

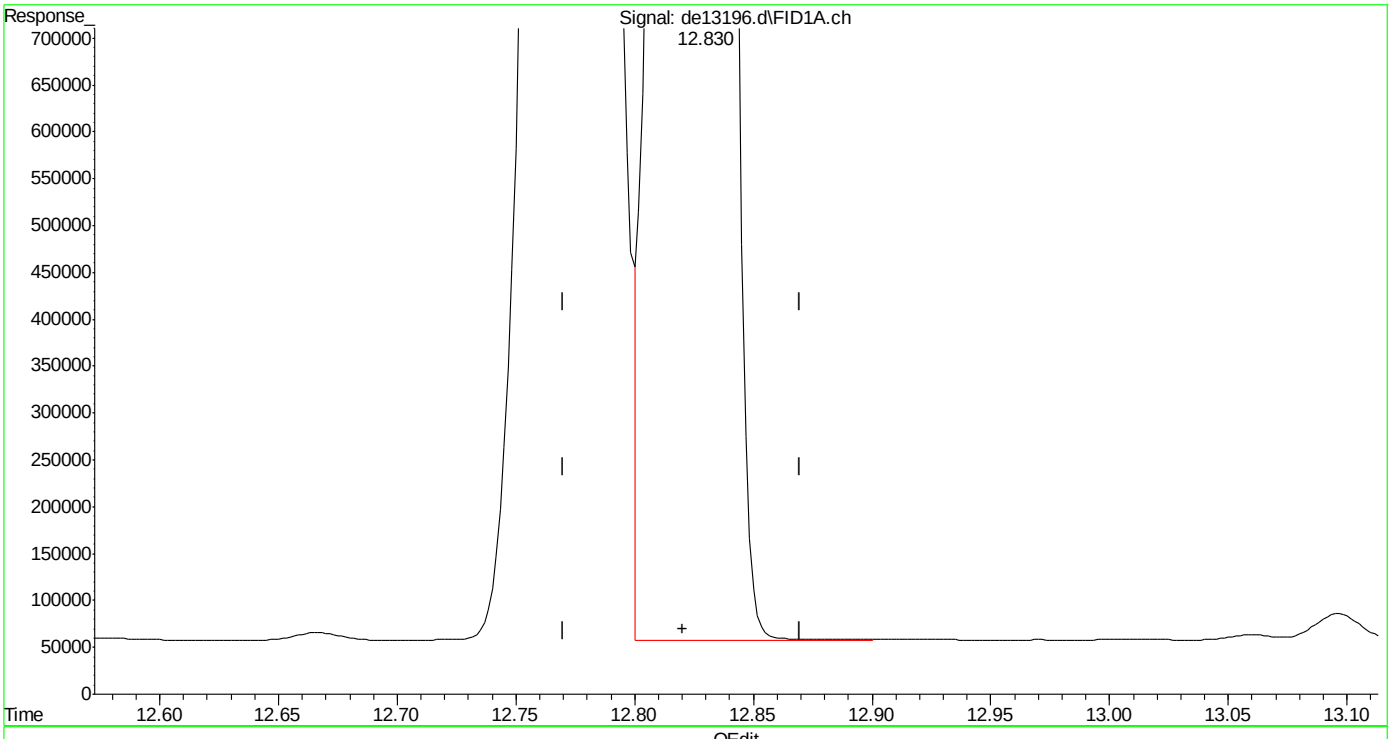
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.830min 96.029 µg/ml m
response 9386529

(+) = Expected Retention Time

SGS ACCUTEST MC45897

DE13197.D

Manual Integrations APPROVED (compounds with "m" flag)

Andri Piluri 02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.813	17171697	185.149 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 925.75%#	
6) s 2-bromonaphthalene	7.548	11710947	185.457 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 927.28%#	
11) s o-terphenyl	10.095	18995194	184.432 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 922.16%#	
35) s 1-chlorooctadecane	11.258	9870838	174.493 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 872.47%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	316974952	191.661 µg/mlm
2) naphthalene	5.365	19450620	187.644 µg/ml
3) 2-methylnaphthalene	6.263	19131536	185.697 µg/ml
5) acenaphthylene	7.383f	18686177	184.334 µg/ml
7) acenaphthene	7.628	19311298	185.676 µg/ml
8) fluorene	8.272	18917157	185.002 µg/ml
9) phenanthrene	9.457	18899419	184.533 µg/ml
10) anthracene	9.517	17945874	184.815 µg/ml
12) fluoranthene	10.968	18457513	183.371 µg/ml
13) pyrene	11.228	18932497	185.310 µg/ml
14) benzo(a)anthracene	12.792	17872955	183.617 µg/mlm
15) chrysene	12.847f	18069681	184.428 µg/mlm
16) benzo(B)fluoranthene	14.092	18893122	189.467 µg/ml
17) benzo(k)fluoranthene	14.132f	16859064	175.363 µg/mlm
18) benzo(a)pyrene	14.432f	17319408	185.106 µg/ml
19) indeno(1,2,3-cd)pyrene	15.575f	18670540	194.062 µg/mlm
20) dibenzo(ah)anthracene	15.620f	16610466	180.145 µg/mlm
21) benzo(ghi)perylene	15.807f	17523714	188.129 µg/mlm
25) h c-9	2.680	13093571	173.259 µg/mlm
26) h c-10	3.833	13149397	172.603 µg/ml
27) naphthalene #2	5.523	14006239	175.249 µg/ml
28) c-12	5.697	12963152	171.352 µg/ml
29) 2-methylnaphthalene #2	6.418	13931230	172.095 µg/ml
30) c-14	7.213	12790598	169.622 µg/ml
31) c-16	8.543	12583573	168.461 µg/ml
32) c-18	9.738	12493898	168.985 µg/ml
33) c-19	10.295	12406524	171.313 µg/ml
34) c-20	10.825	12189358	171.737 µg/ml
36) c-22	11.822	12115679	172.966 µg/ml
37) c-24	12.738	11324691	171.289 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
38)	c-26	13.592	12045195	173.683	µg/ml
39)	c-28	14.385	11646376	173.584	µg/ml
40) h	c-30	15.122	11593413	170.863	µg/ml
41) h	c-36	17.010	10854654	179.925	µg/mlm

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

9.5.7

9

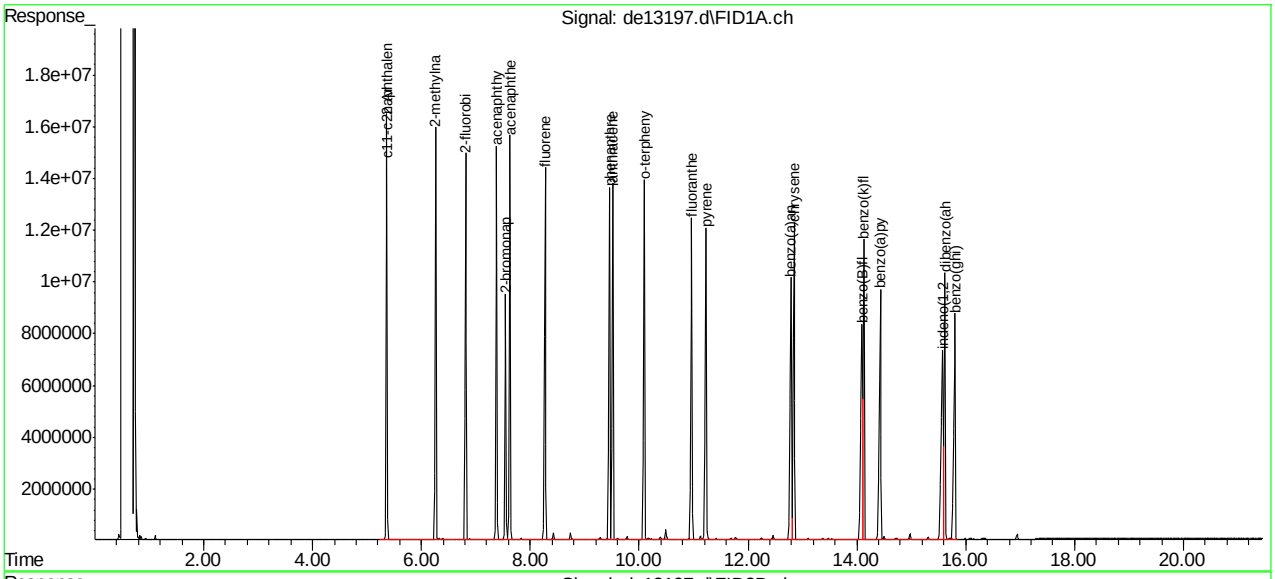
SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

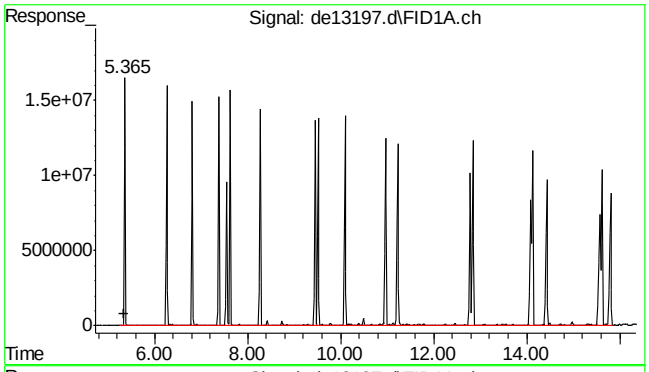
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

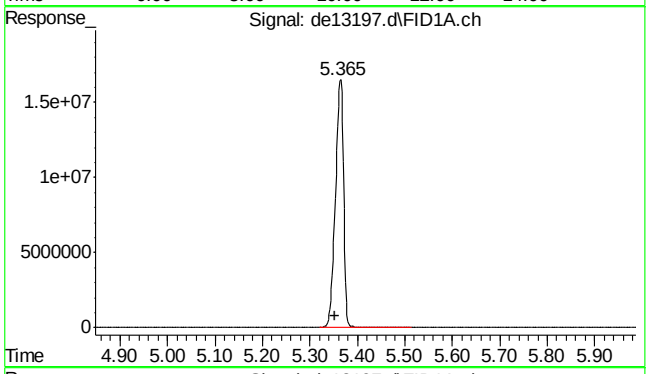


SGS ACCUTEST MC45897



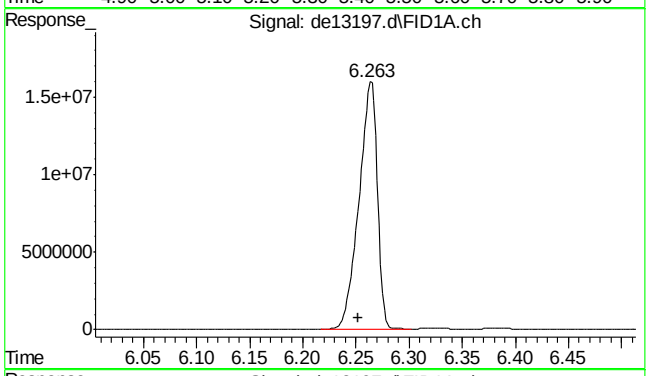
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 316974952
Conc: 191.66 µg/ml m



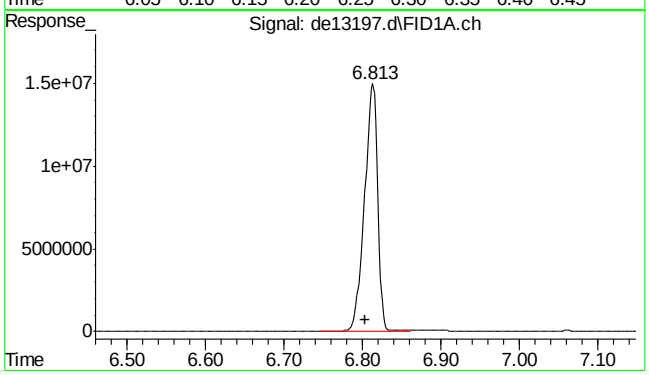
#2 naphthalene

R.T.: 5.365 min
Delta R.T.: 0.012 min
Response: 19450620
Conc: 187.64 µg/ml



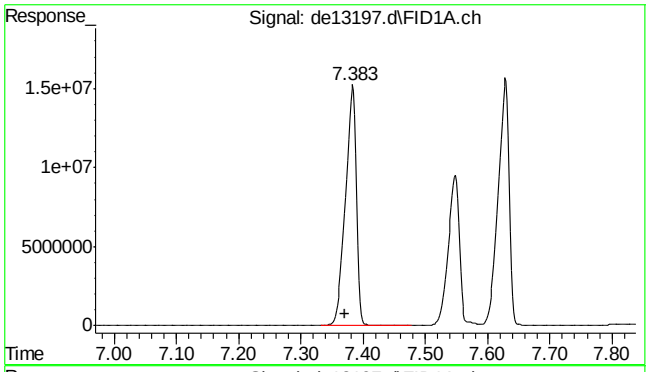
#3 2-methylnaphthalene

R.T.: 6.263 min
Delta R.T.: 0.011 min
Response: 19131536
Conc: 185.70 µg/ml



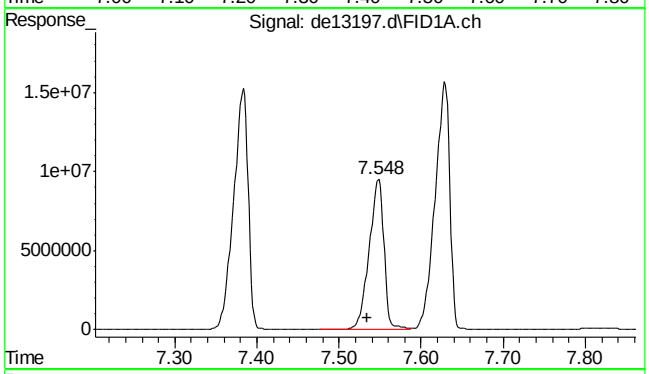
#4 2-fluorobiphenyl

R.T.: 6.813 min
Delta R.T.: 0.010 min
Response: 17171697
Conc: 185.15 µg/ml



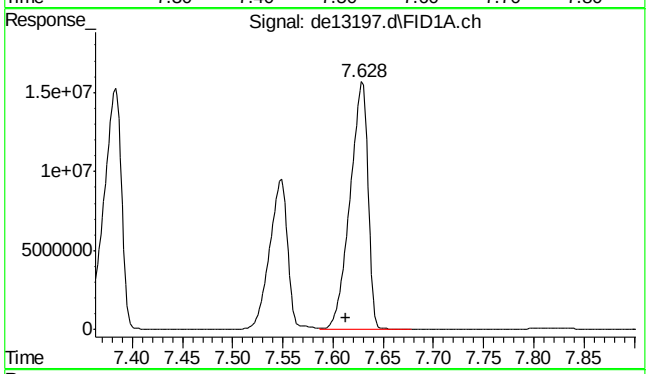
#5 acenaphthylene

R.T.: 7.383 min
Delta R.T.: 0.013 min
Response: 18686177
Conc: 184.33 µg/ml



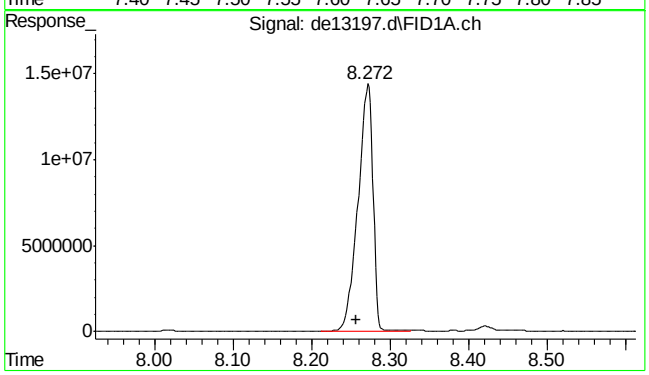
#6 2-bromonaphthalene

R.T.: 7.548 min
Delta R.T.: 0.013 min
Response: 11710947
Conc: 185.46 µg/ml



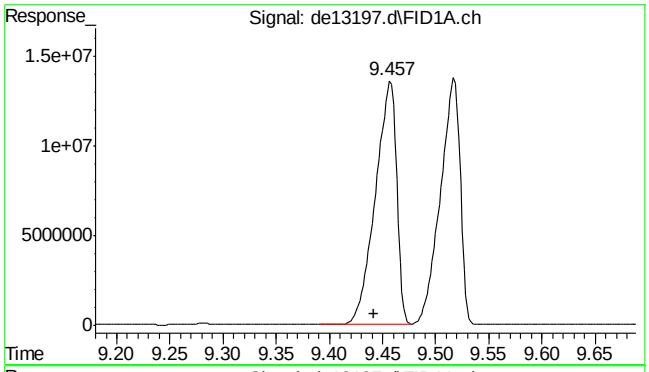
#7 acenaphthene

R.T.: 7.628 min
Delta R.T.: 0.015 min
Response: 19311298
Conc: 185.68 µg/ml



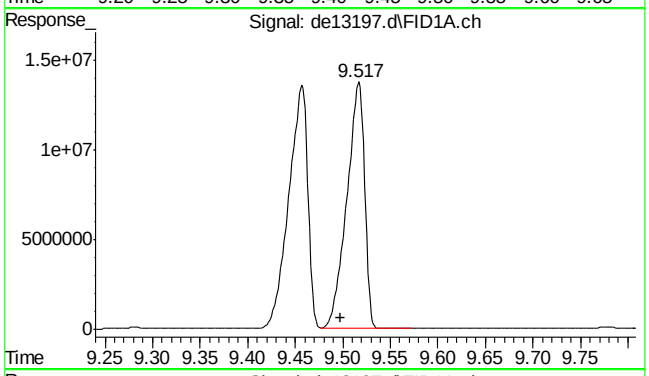
#8 fluorene

R.T.: 8.272 min
Delta R.T.: 0.015 min
Response: 18917157
Conc: 185.00 µg/ml



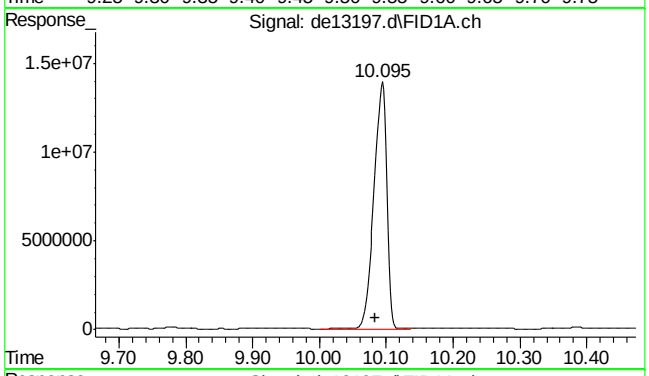
#9 phenanthrene

R.T.: 9.457 min
Delta R.T.: 0.015 min
Response: 18899419
Conc: 184.53 µg/ml



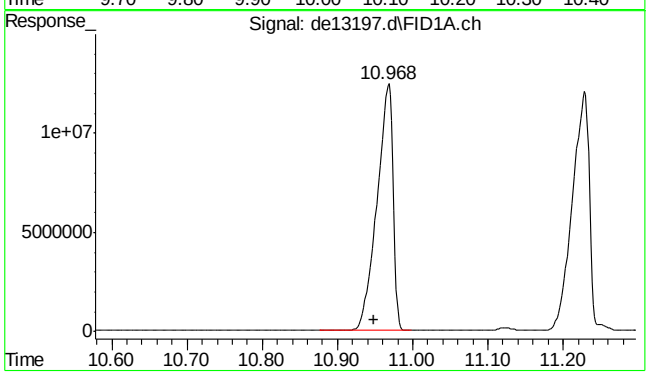
#10 anthracene

R.T.: 9.517 min
Delta R.T.: 0.019 min
Response: 17945874
Conc: 184.82 µg/ml



#11 o-terphenyl

R.T.: 10.095 min
Delta R.T.: 0.012 min
Response: 18995194
Conc: 184.43 µg/ml



#12 fluoranthene

R.T.: 10.968 min
Delta R.T.: 0.020 min
Response: 18457513
Conc: 183.37 µg/ml

9.5.7

9

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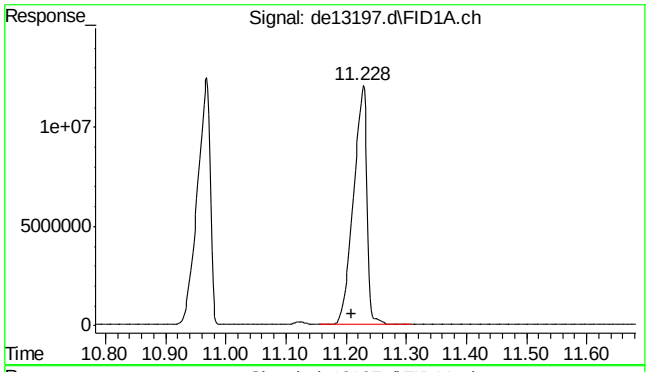
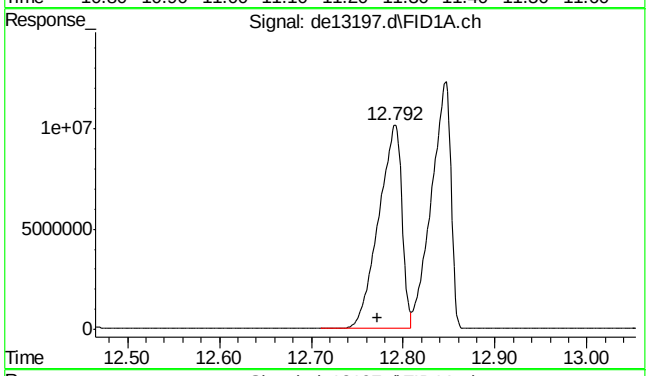


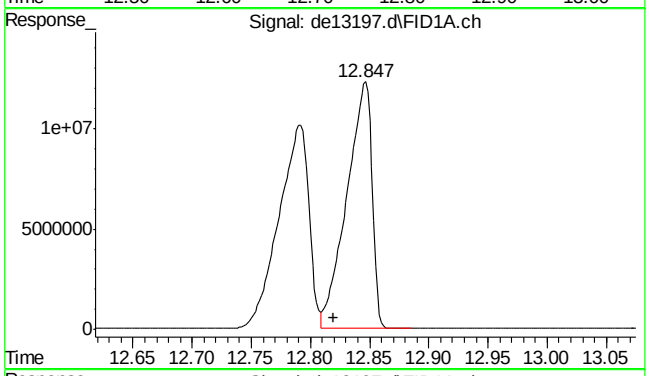
#13 pyrene

R.T.: 11.228 min
Delta R.T.: 0.018 min
Response: 18932497
Conc: 185.31 µg/ml



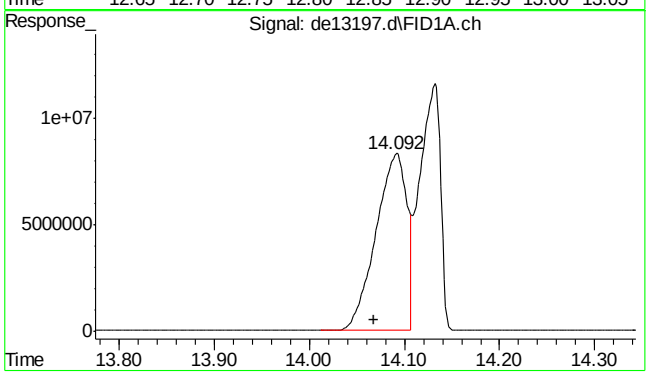
#14 benzo(a)anthracene

R.T.: 12.792 min
Delta R.T.: 0.020 min
Response: 17872955
Conc: 183.62 µg/ml m



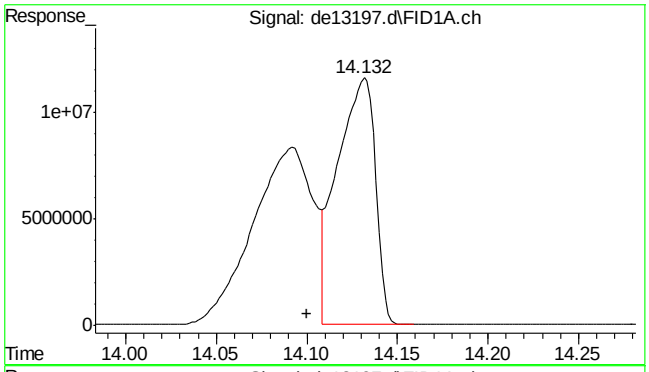
#15 chrysene

R.T.: 12.847 min
Delta R.T.: 0.027 min
Response: 18069681
Conc: 184.43 µg/ml m



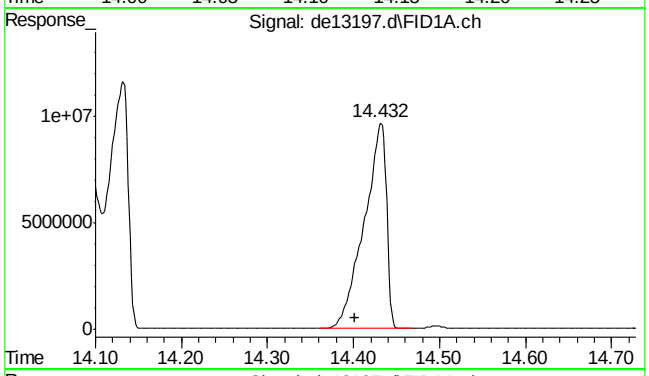
#16 benzo(B)fluoranthene

R.T.: 14.092 min
Delta R.T.: 0.024 min
Response: 18893122
Conc: 189.47 µg/ml



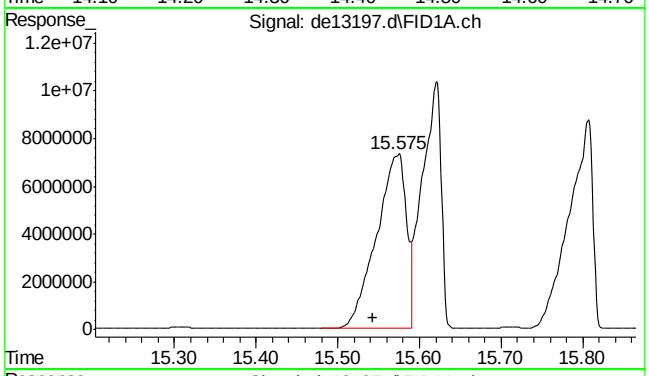
#17 benzo(k)fluoranthene

R.T.: 14.132 min
Delta R.T.: 0.032 min
Response: 16859064
Conc: 175.36 µg/ml m



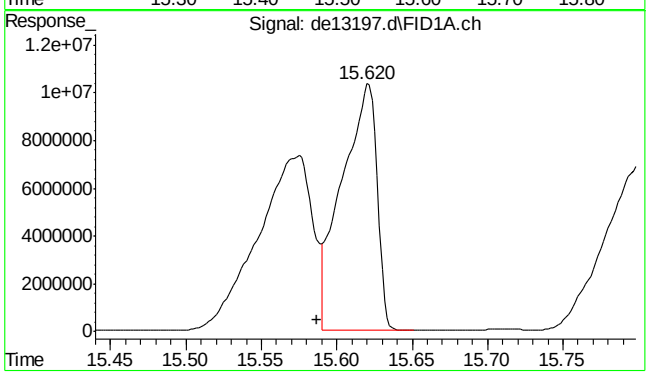
#18 benzo(a)pyrene

R.T.: 14.432 min
Delta R.T.: 0.030 min
Response: 17319408
Conc: 185.11 µg/ml



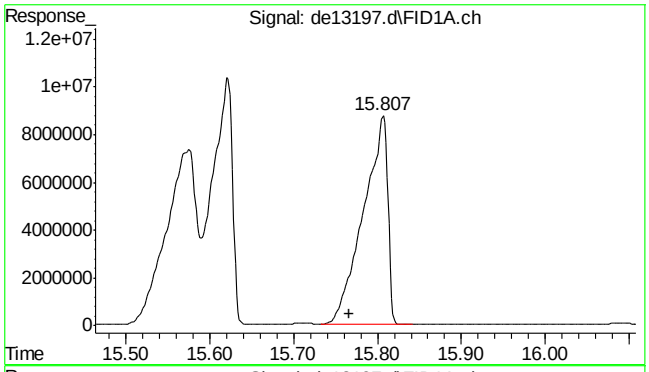
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.575 min
Delta R.T.: 0.032 min
Response: 18670540
Conc: 194.06 µg/ml m



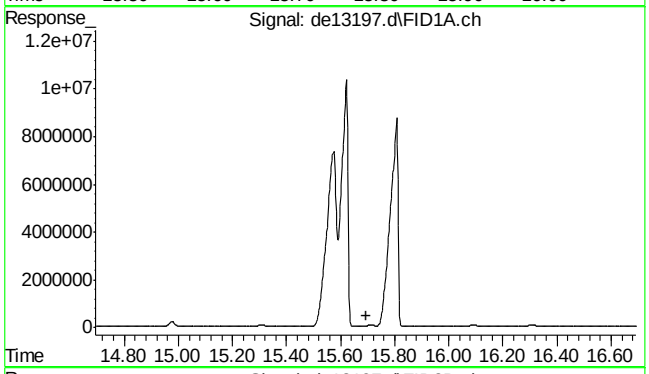
#20 dibenzo(ah)anthracene

R.T.: 15.620 min
Delta R.T.: 0.033 min
Response: 16610466
Conc: 180.15 µg/ml m



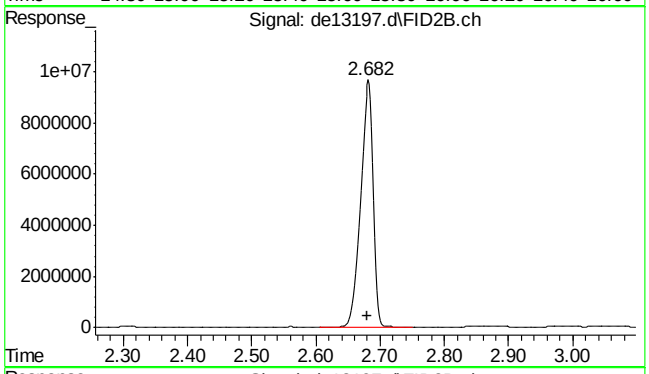
#21 benzo(ghi)perylene

R.T.: 15.807 min
Delta R.T.: 0.040 min
Response: 17523714
Conc: 188.13 µg/ml m



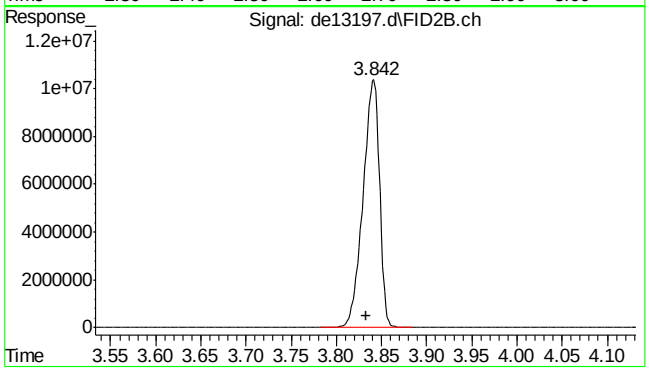
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 13093571
Conc: 173.26 µg/ml m



#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 13149397
Conc: 172.60 µg/ml

9.5.7

9

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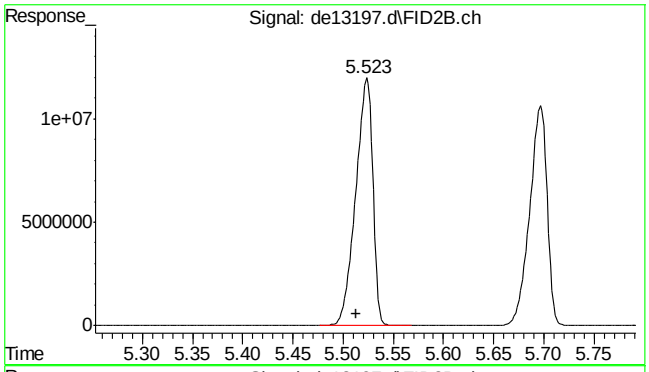
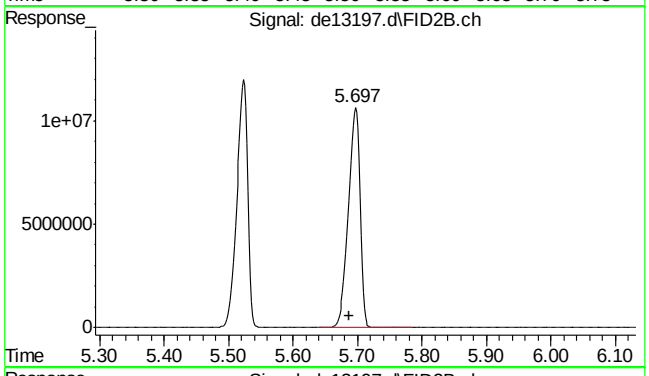


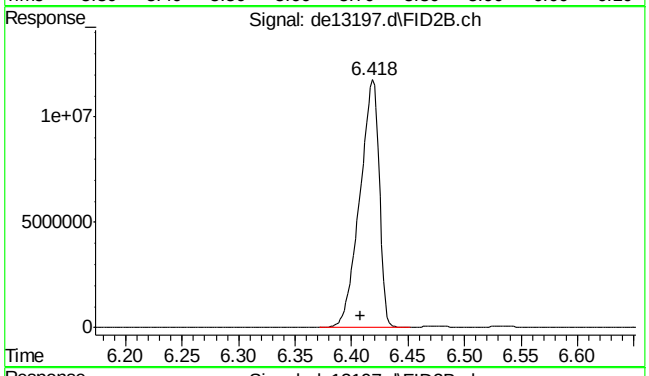
#27 naphthalene #2

R.T.: 5.523 min
Delta R.T.: 0.010 min
Response: 14006239
Conc: 175.25 µg/ml



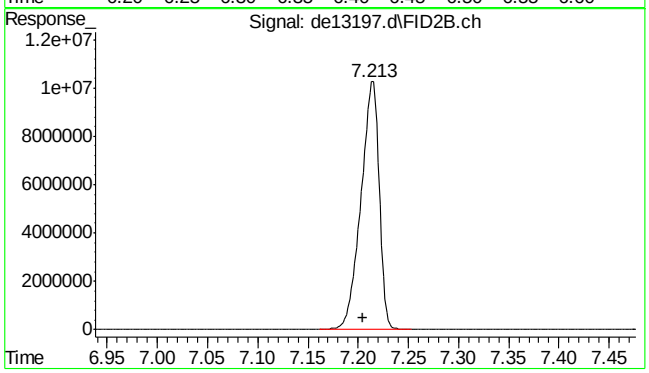
#28 c-12

R.T.: 5.697 min
Delta R.T.: 0.009 min
Response: 12963152
Conc: 171.35 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.418 min
Delta R.T.: 0.010 min
Response: 13931230
Conc: 172.09 µg/ml



#30 c-14

R.T.: 7.213 min
Delta R.T.: 0.008 min
Response: 12790598
Conc: 169.62 µg/ml

9.5.7

9

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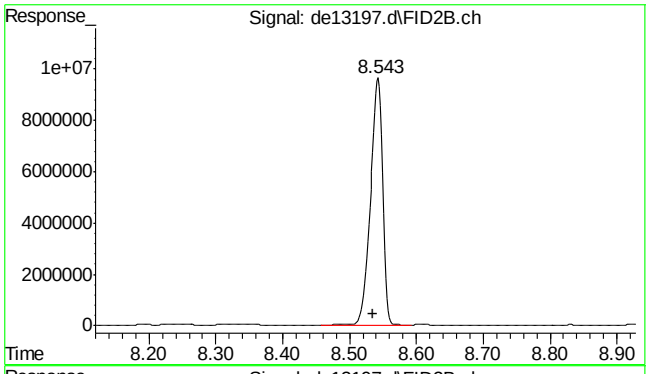
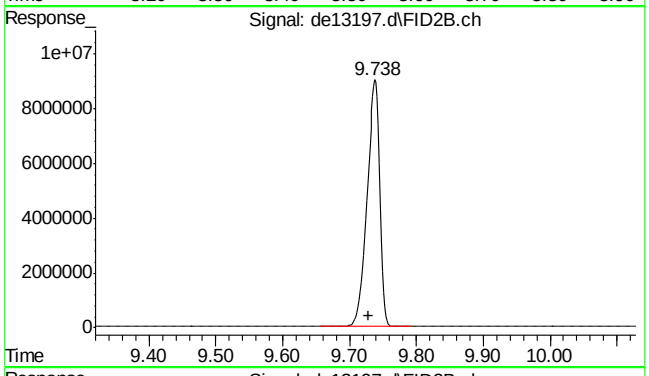


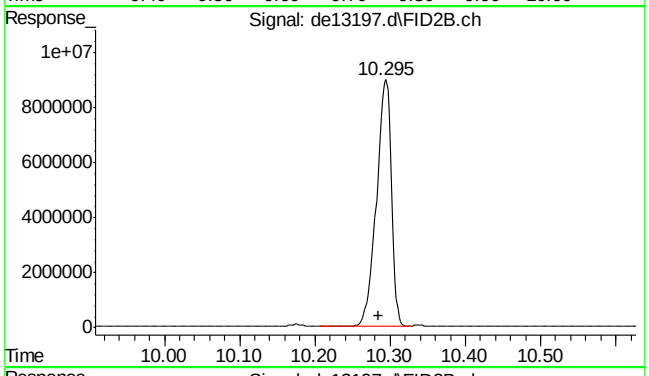
#31 c-16

R.T.: 8.543 min
Delta R.T.: 0.008 min
Response: 12583573
Conc: 168.46 µg/ml



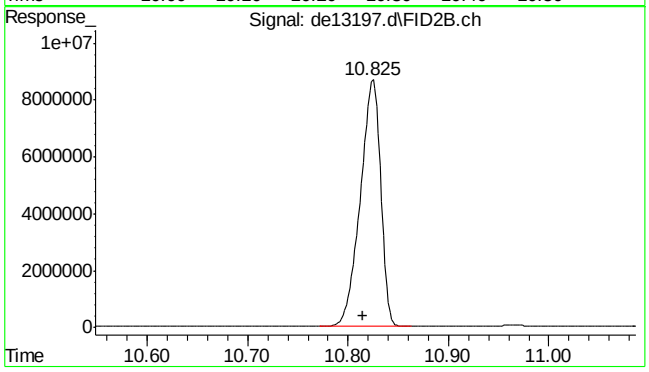
#32 c-18

R.T.: 9.738 min
Delta R.T.: 0.010 min
Response: 12493898
Conc: 168.99 µg/ml



#33 c-19

R.T.: 10.295 min
Delta R.T.: 0.010 min
Response: 12406524
Conc: 171.31 µg/ml



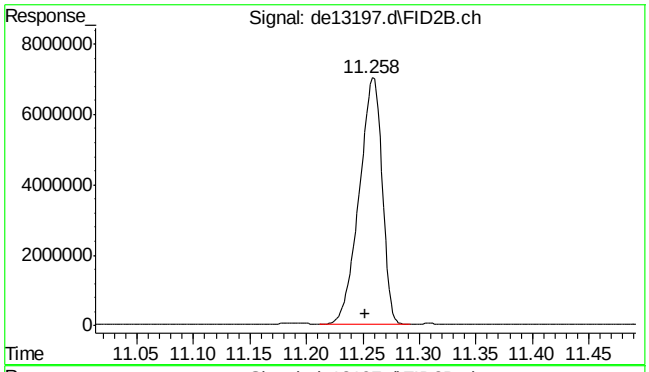
#34 c-20

R.T.: 10.825 min
Delta R.T.: 0.010 min
Response: 12189358
Conc: 171.74 µg/ml

9.5.7

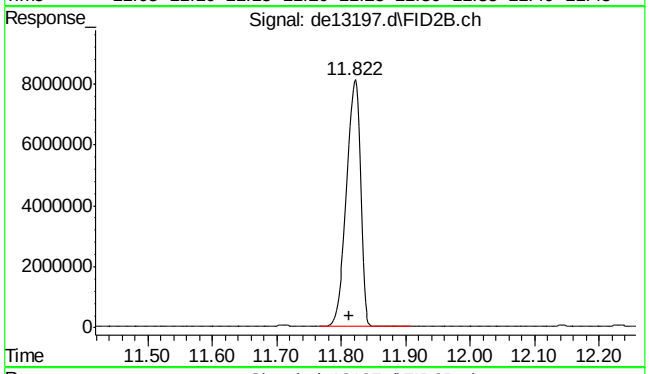
9

SGS ACCUTEST MC45897



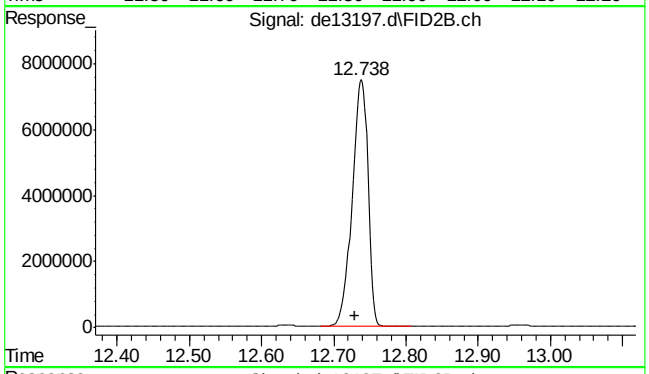
#35 1-chlorooctadecane

R.T.: 11.258 min
Delta R.T.: 0.006 min
Response: 9870838
Conc: 174.49 µg/ml



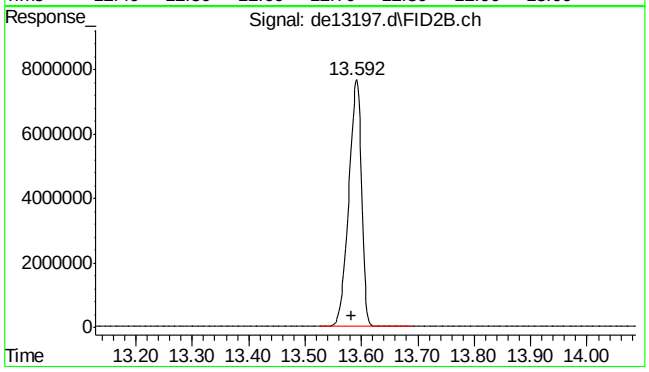
#36 c-22

R.T.: 11.822 min
Delta R.T.: 0.010 min
Response: 12115679
Conc: 172.97 µg/ml



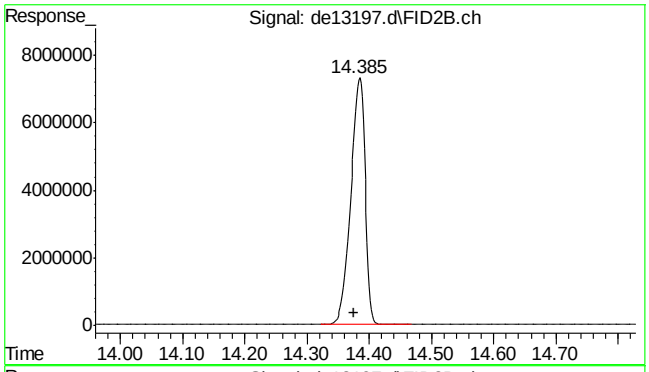
#37 c-24

R.T.: 12.738 min
Delta R.T.: 0.008 min
Response: 11324691
Conc: 171.29 µg/ml



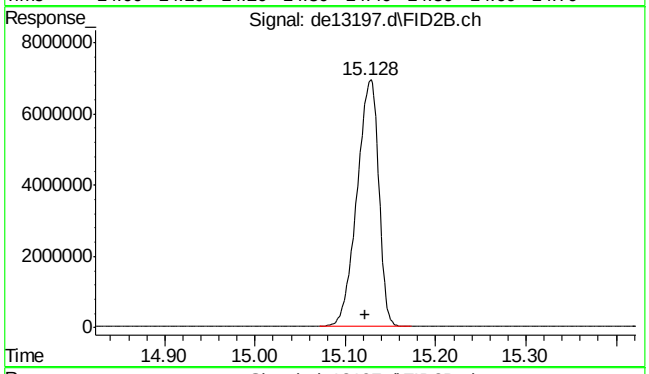
#38 c-26

R.T.: 13.592 min
Delta R.T.: 0.010 min
Response: 12045195
Conc: 173.68 µg/ml



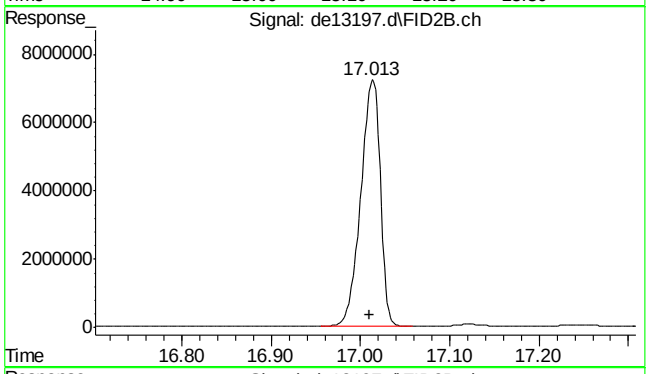
#39 c-28

R.T.: 14.385 min
Delta R.T.: 0.010 min
Response: 11646376
Conc: 173.58 µg/ml



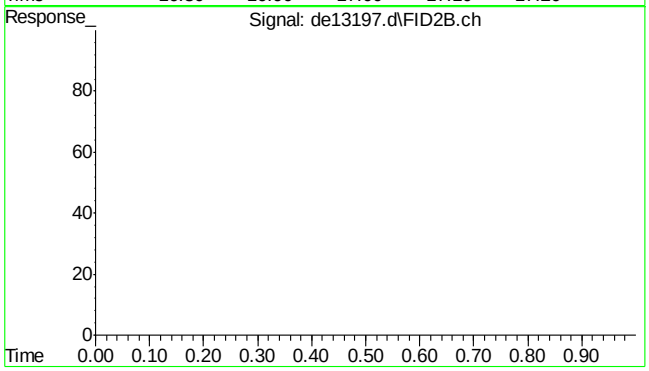
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 11593413
Conc: 170.86 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 10854654
Conc: 179.92 µg/ml m



#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.7

9

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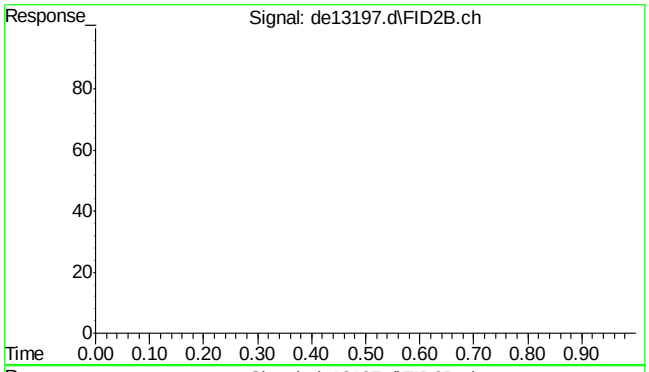
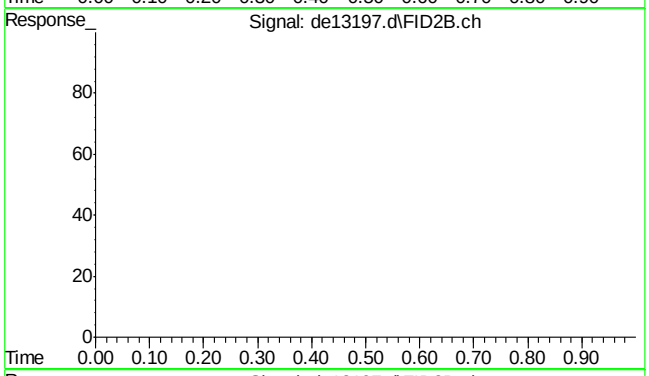


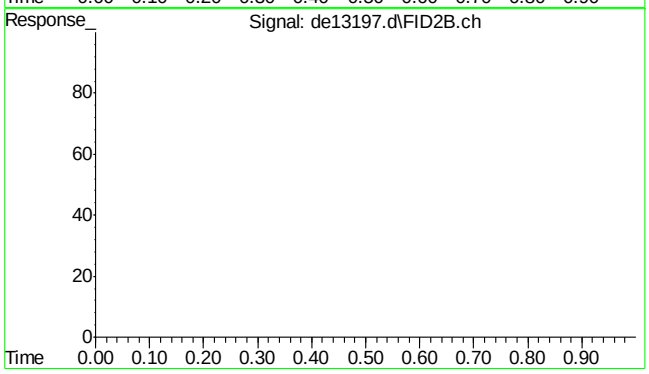
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

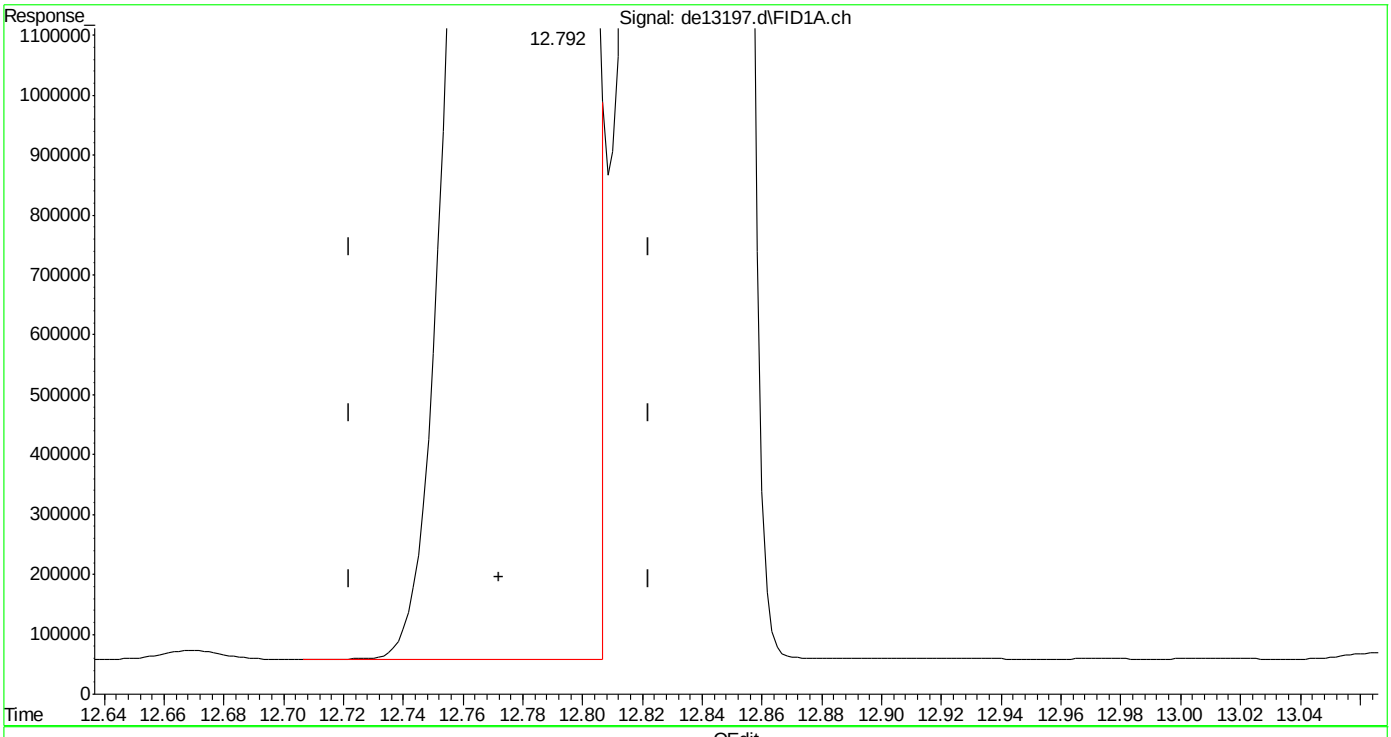
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.792min 182.685 µg/ml
response 17782201

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:14 2016

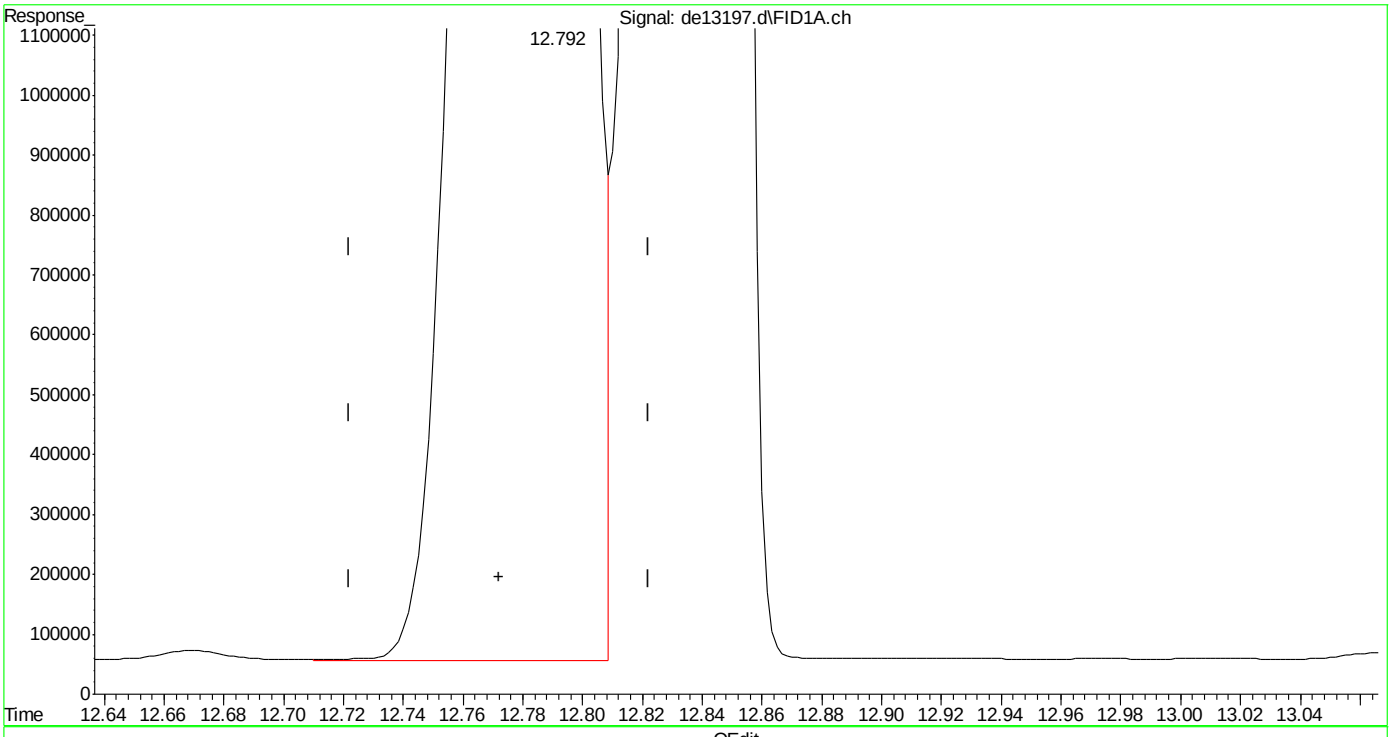
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.792min 183.617 µg/ml m
response 17872955

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:33 2016

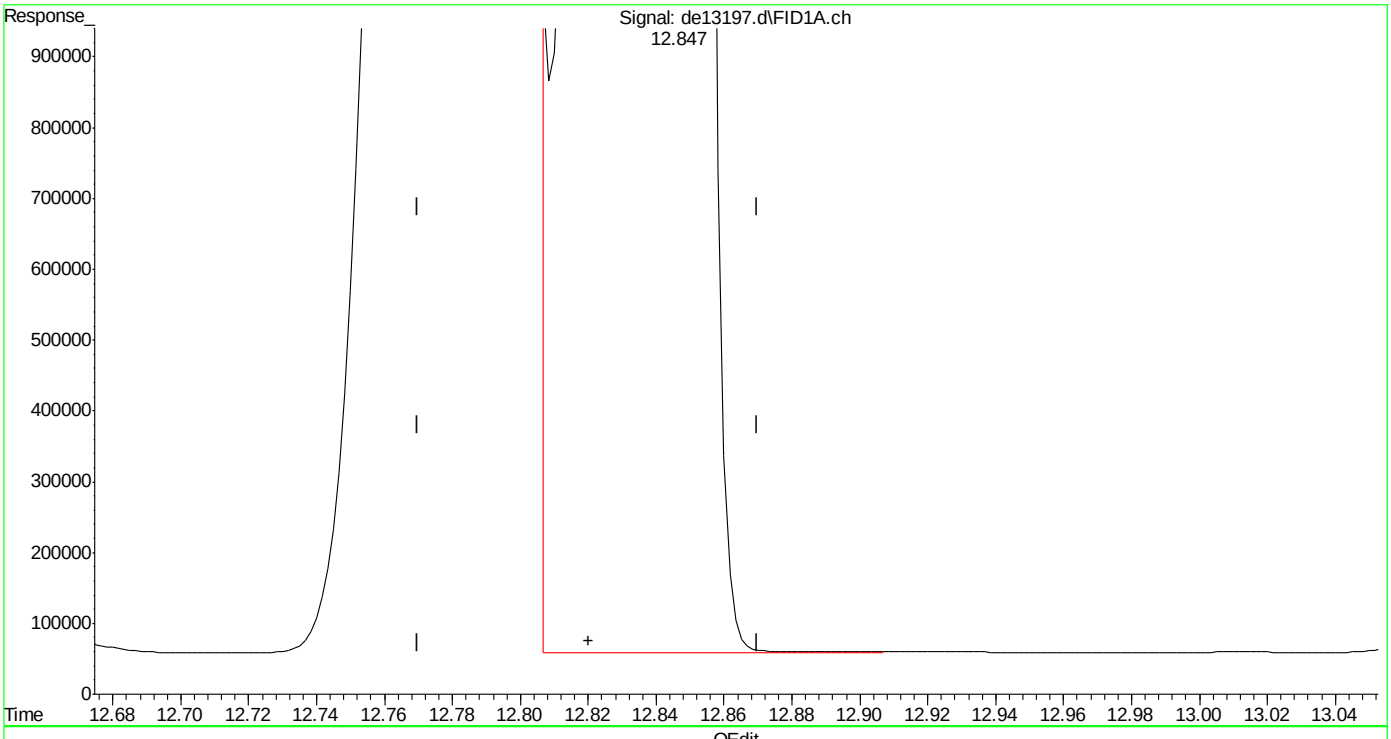
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.847min 185.235 µg/ml
response 18148724

(+) = Expected Retention Time

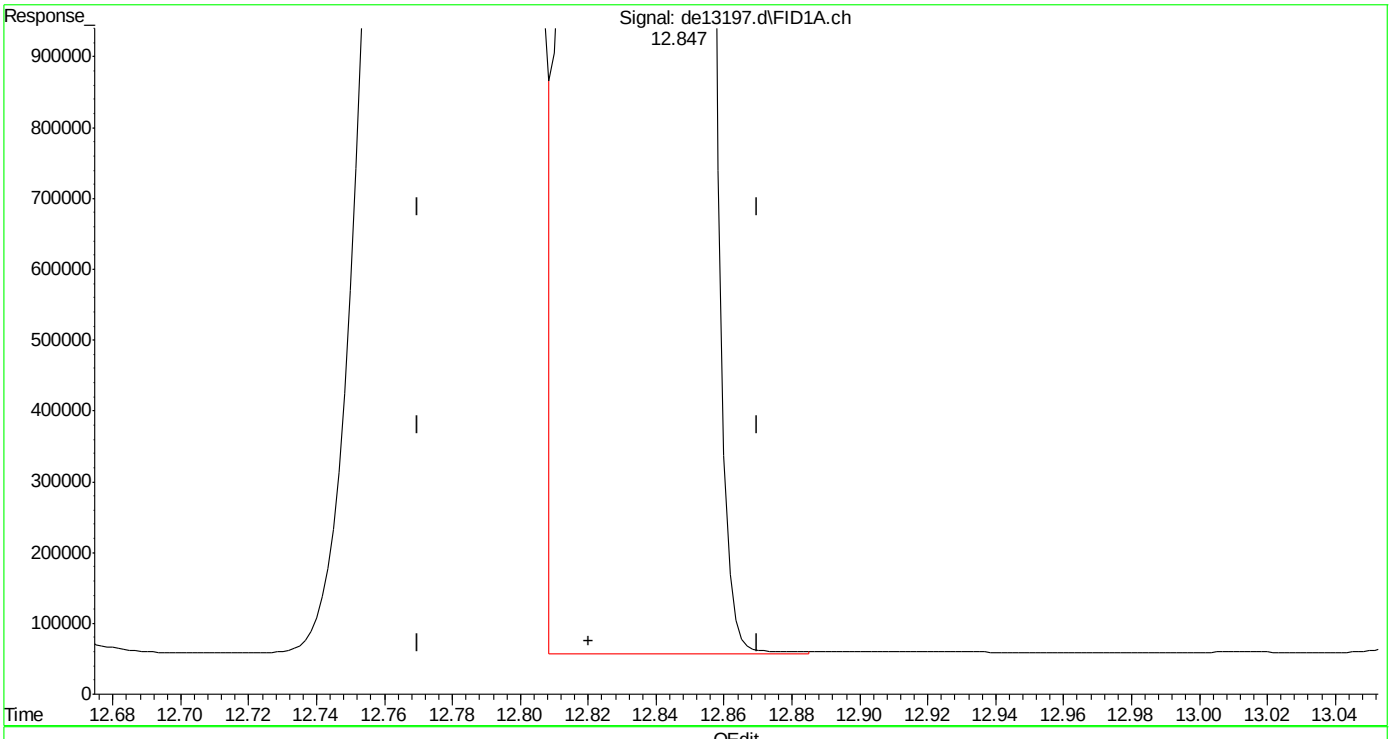
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.847min 184.428 µg/ml m
response 18069681

(+) = Expected Retention Time

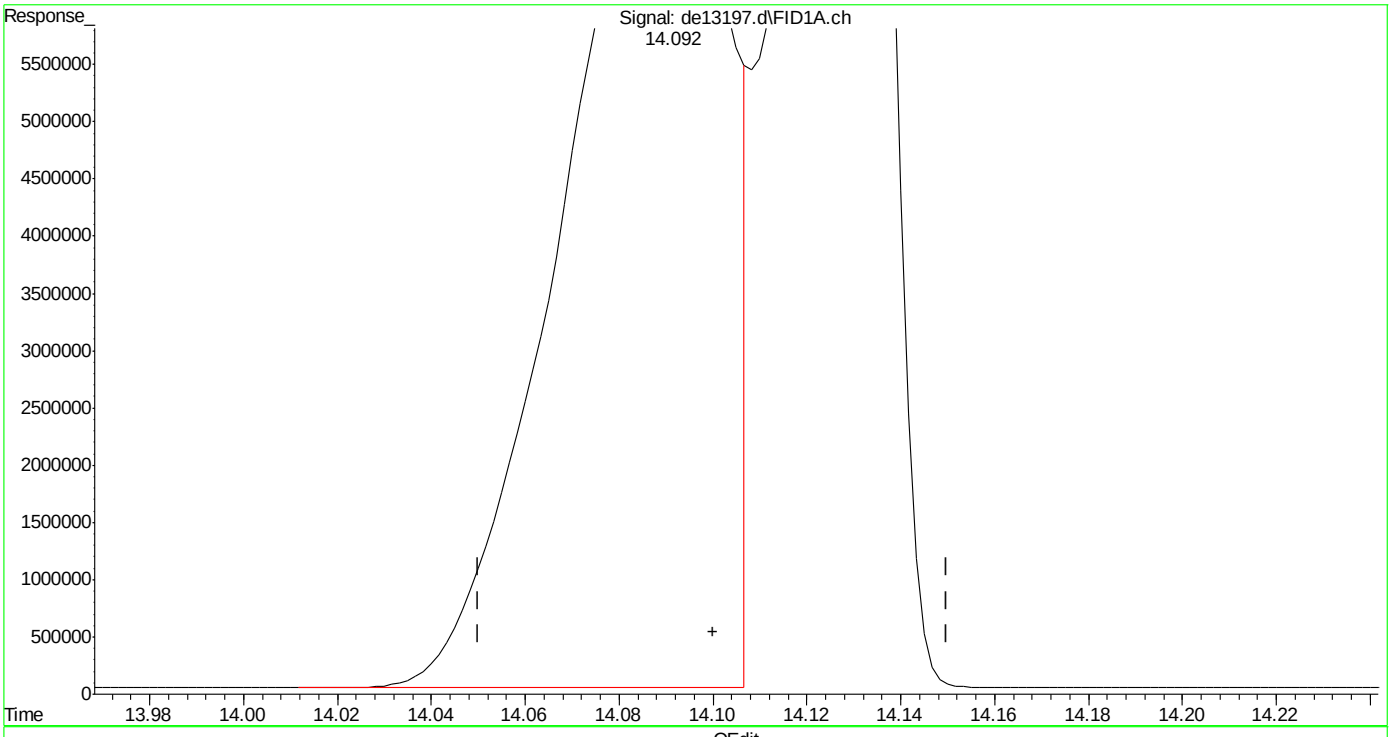
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.092min 196.520 µg/ml
response 18893122

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 11:04:36 2016 Page: 1

SGS ACCUTEST MC45897

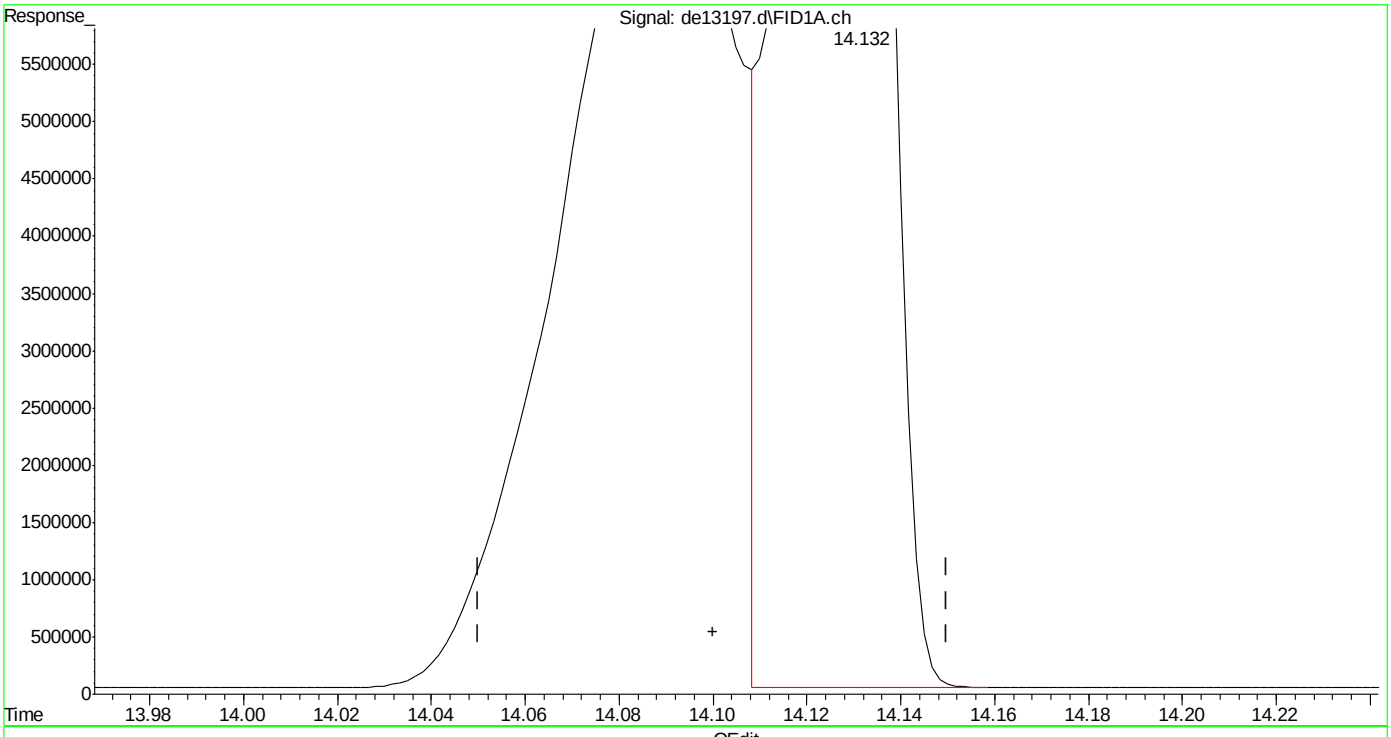
DE13197.D edits: benzo(k)fluoranthene

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.132min 175.363 µg/ml m
response 16859064

(+) = Expected Retention Time

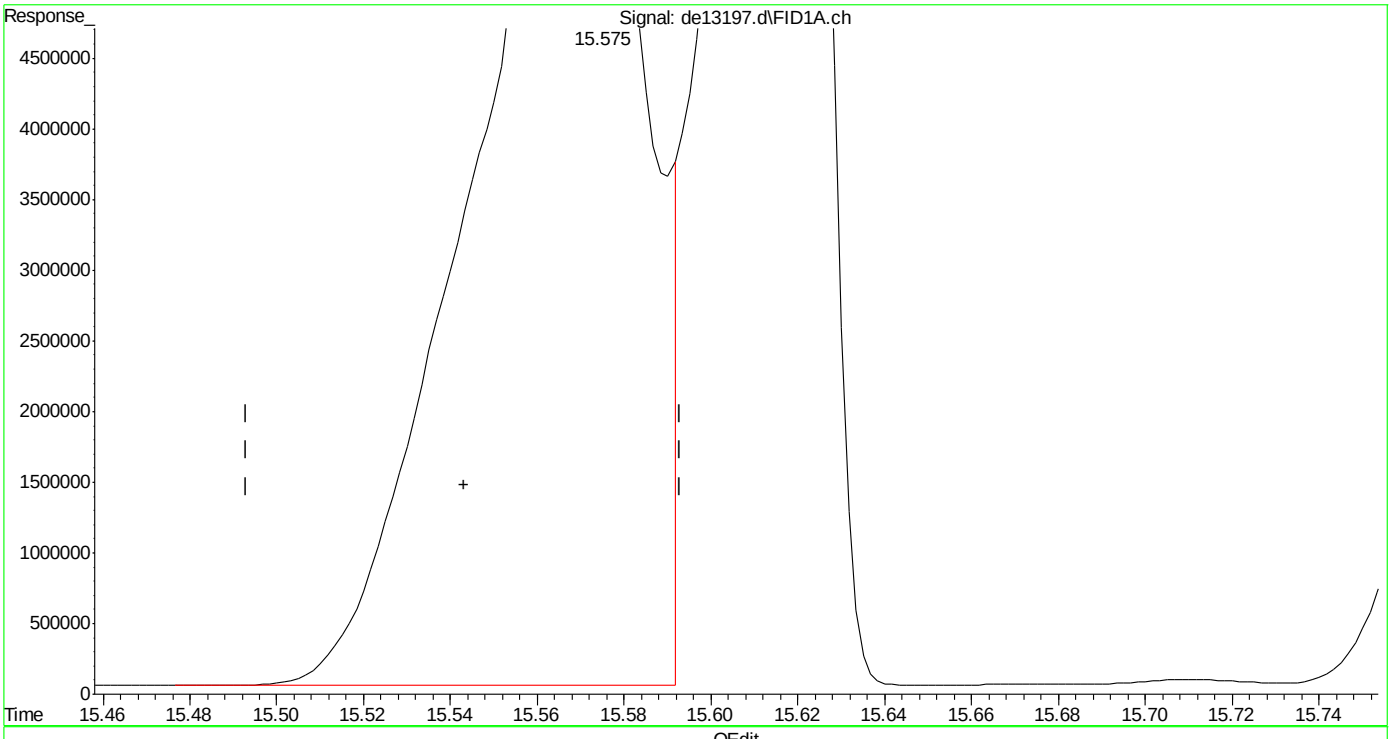
EPH160204M.M Fri Feb 05 11:04:44 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.575min 197.907 µg/ml
response 19040403

(+) = Expected Retention Time

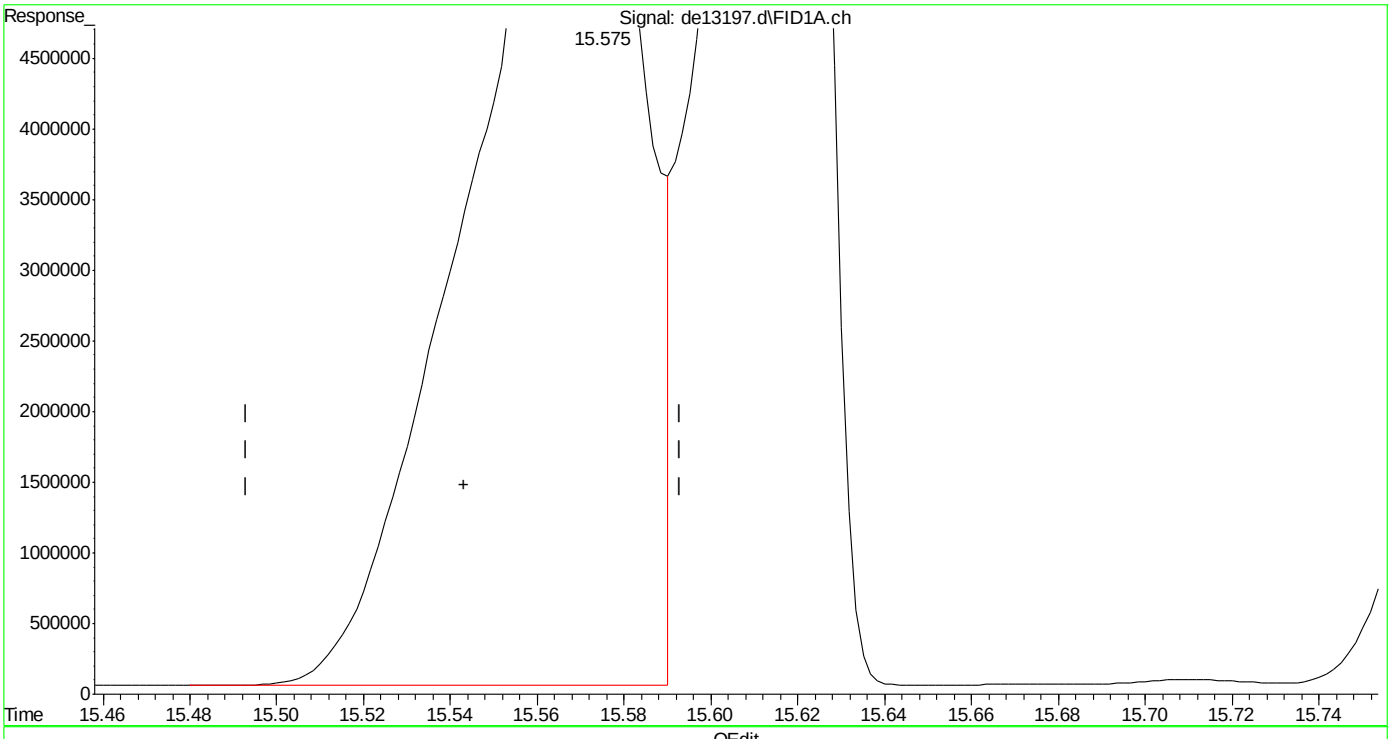
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.575min 194.062 µg/ml m
response 18670540

(+) = Expected Retention Time

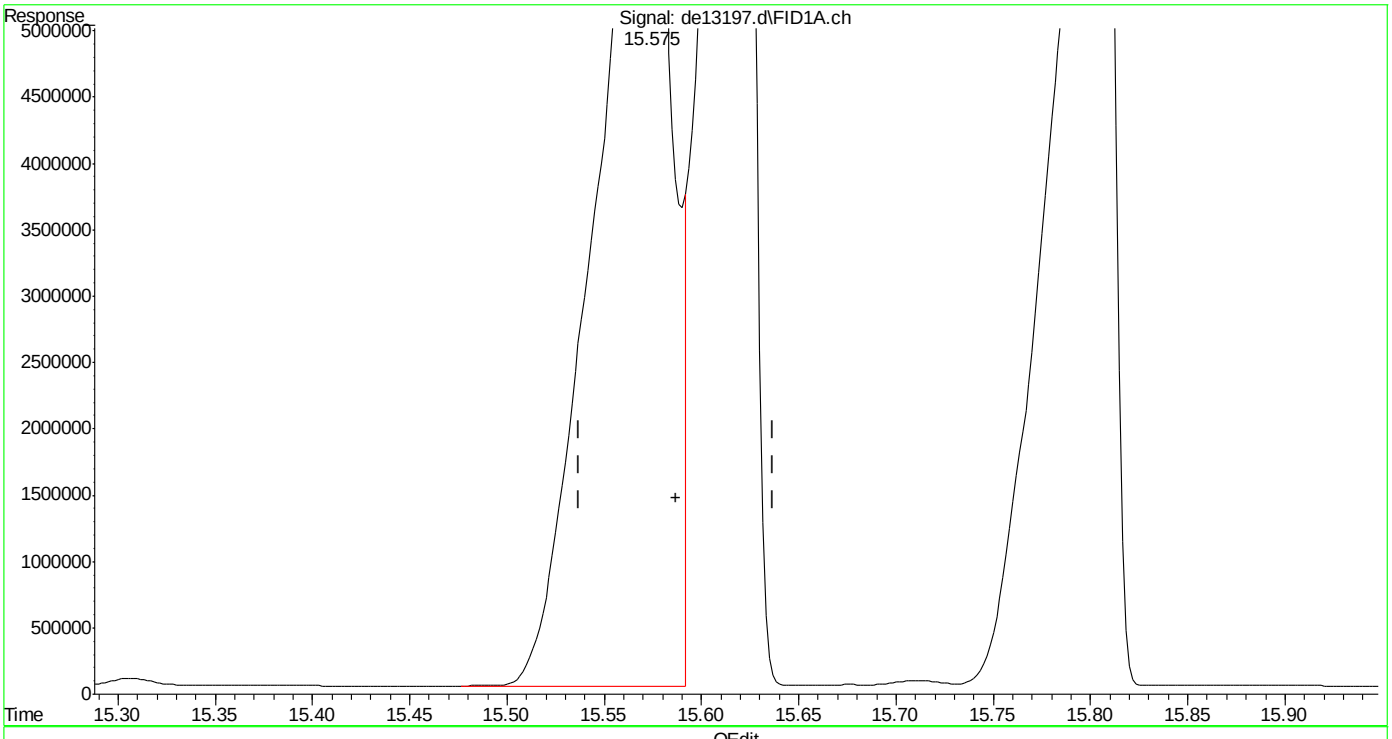
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.575min 206.498 µg/ml
response 19040403

(+) = Expected Retention Time

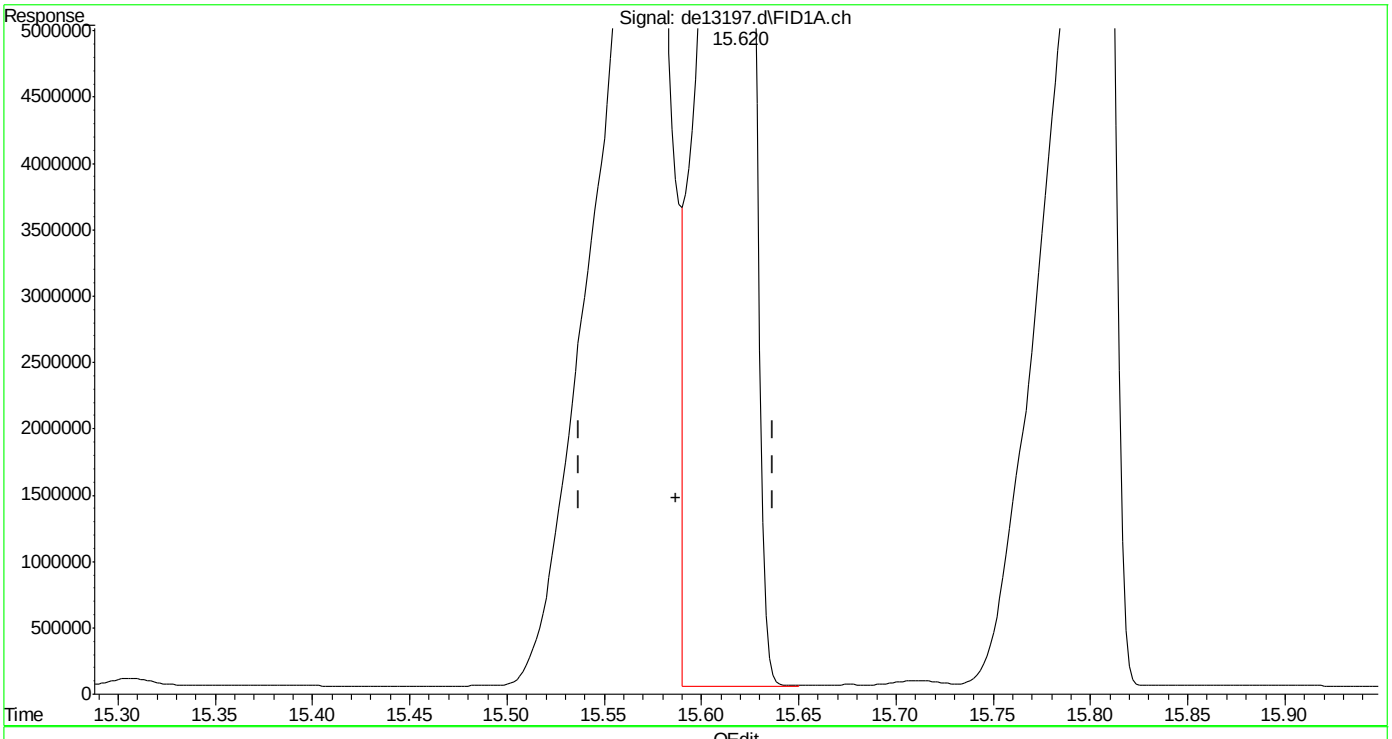
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.620min 180.145 µg/ml m
response 16610466

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 11:05:26 2016

SGS ACCUTEST MC45897

Quantitation Report (Qedit)

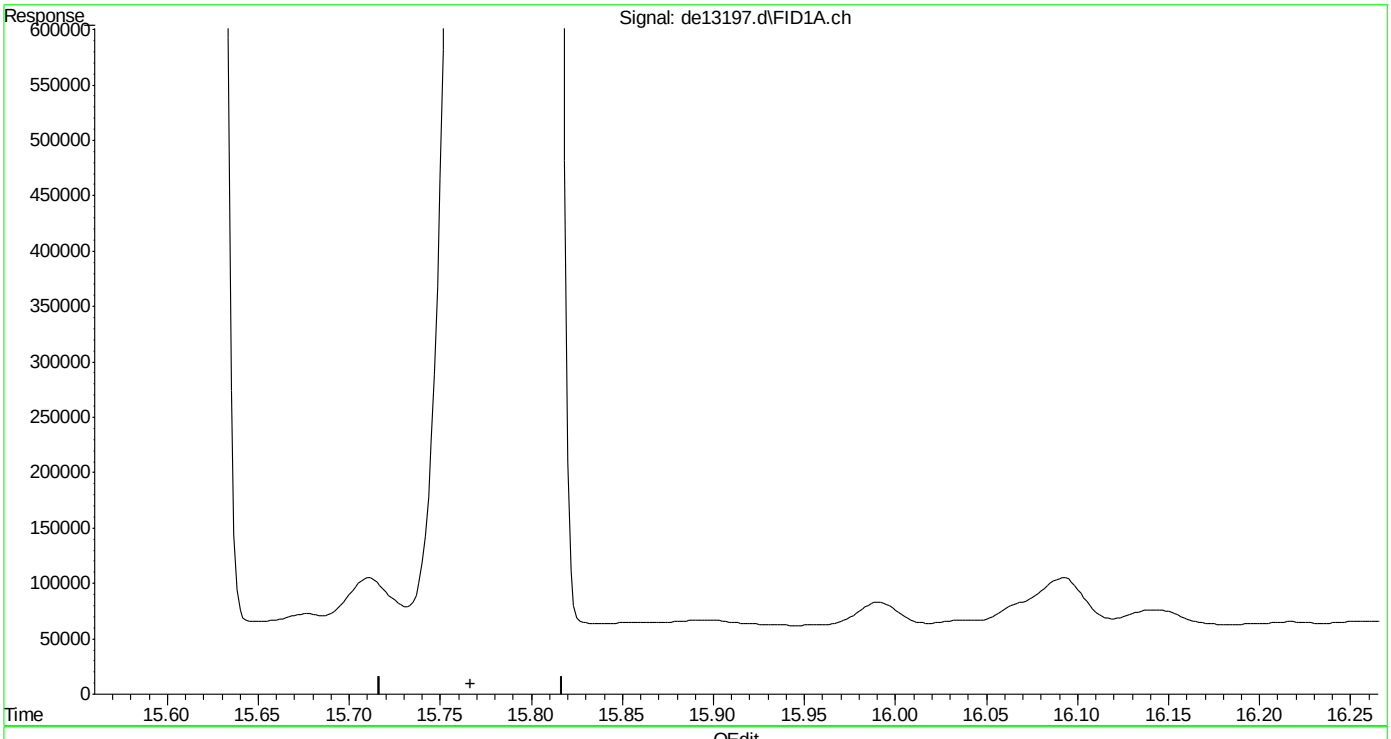
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

9.5.7.11

9



(21) benzo(ghi)perylene
0.000min 0.000 µg/ml d
response 0

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:05:42 2016

Page: 1

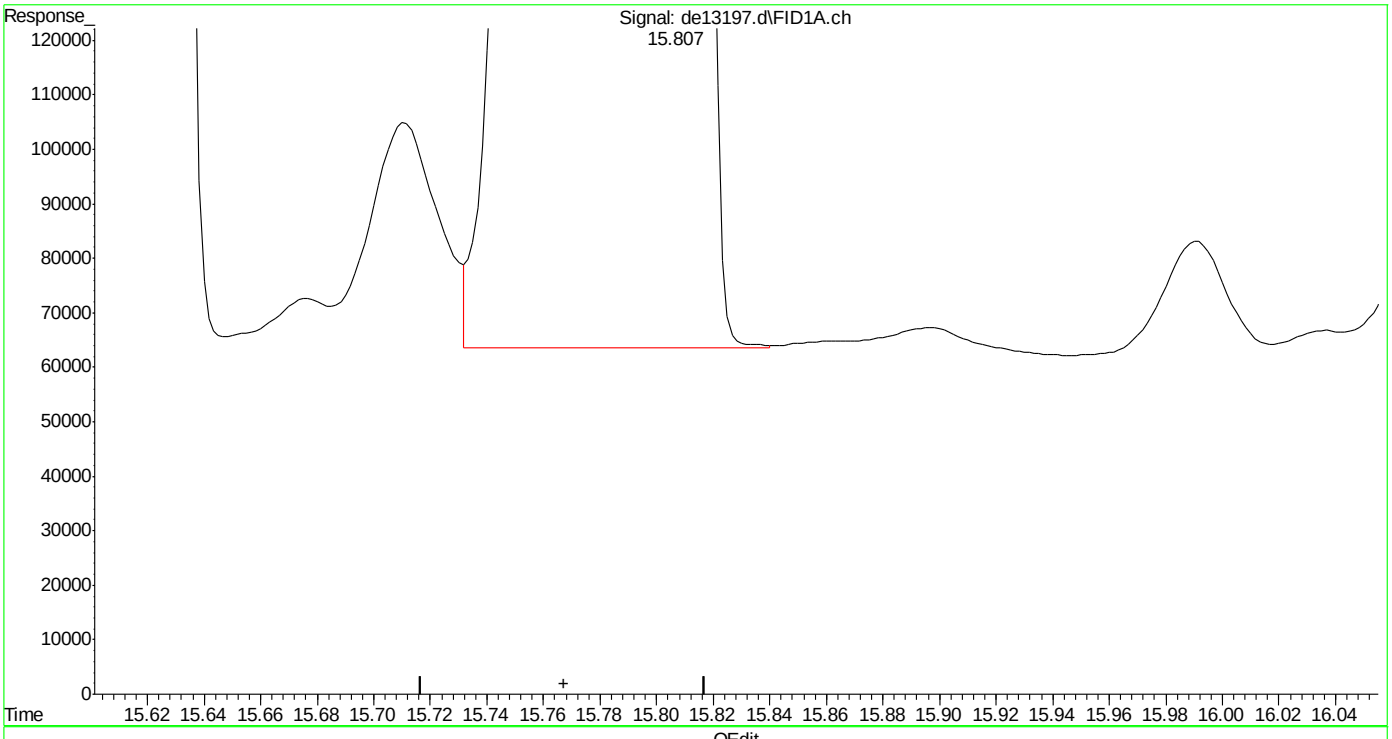
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(21) benzo(ghi)perylene
15.807min 188.129 µg/ml m
response 17523714

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:05:54 2016

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.807	4785763	51.889 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 259.44%#	
6) s 2-bromonaphthalene	7.540	3261205	51.967 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 259.83%#	
11) s o-terphenyl	10.085	5227790	51.039 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 255.20%#	
35) s 1-chlorooctadecane	11.252	2968966	52.479 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 262.39%#	
Target Compounds			
2) naphthalene	5.357	5321324	51.593 µg/ml
3) 2-methylnaphthalene	6.255	5225758	50.992 µg/ml
5) acenaphthylene	7.373	5189401	51.584 µg/ml
7) acenaphthene	7.617	5299977	51.269 µg/ml
8) fluorene	8.260	5216935	51.364 µg/ml
9) phenanthrene	9.443	5176102	50.864 µg/ml
10) anthracene	9.502	5163442	53.227 µg/ml
12) fluoranthene	10.953	5147188	51.502 µg/ml
13) pyrene	11.210	5076986	50.038 µg/ml
14) benzo(a)anthracene	12.773	5010585	51.829 µg/mlm
15) chrysene	12.822	4818393	49.500 µg/mlm
16) benzo(B)fluoranthene	14.070	5126155	51.778 µg/mlm
17) benzo(k)fluoranthene	14.102	4808431	50.882 µg/mlm
18) benzo(a)pyrene	14.405	4486318	48.535 µg/ml
19) indeno(1,2,3-cd)pyrene	15.543	4825283	50.976 µg/ml
20) dibenzo(ah)anthracene	15.588	4714989	51.587 µg/ml
21) benzo(ghi)perylene	15.768	4765990	51.735 µg/ml
25) h c-9	2.680	3669865	49.679 µg/mlm
26) h c-10	3.833	3682081	49.844 µg/ml
27) naphthalene #2	5.515	4035939	50.530 µg/ml
28) c-12	5.688	3625160	49.073 µg/ml
29) 2-methylnaphthalene #2	6.408	3954192	49.080 µg/ml
30) c-14	7.205	3605226	48.804 µg/ml
31) c-16	8.535	3538485	47.900 µg/ml
32) c-18	9.730	3494684	47.307 µg/ml
33) c-19	10.285	3424371	51.258 µg/ml
34) c-20	10.817	3390870	50.757 µg/ml
36) c-22	11.812	3335369	49.926 µg/ml
37) c-24	12.730	3275936	49.036 µg/ml
38) c-26	13.582	3251556	48.671 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.375	3204302	47.964	µg/ml
40) h	c-30	15.122	3143578	47.055	µg/ml
41) h	c-36	17.010	2933493	43.910	µg/mlm

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

9.5.8

9

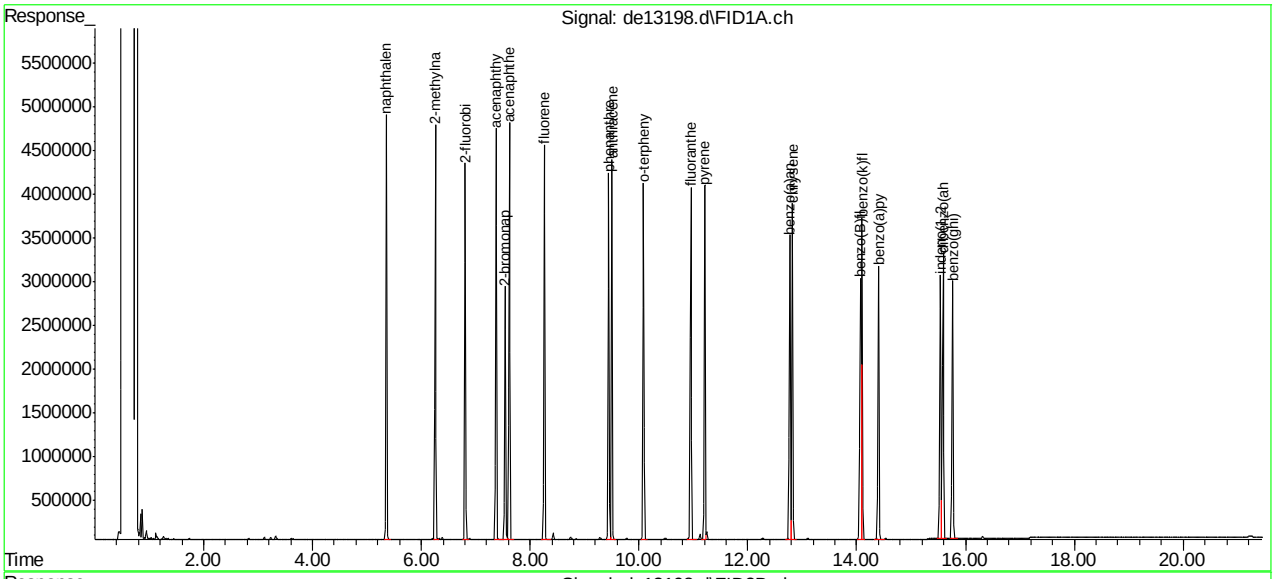
SGS ACCUTEST MC45897

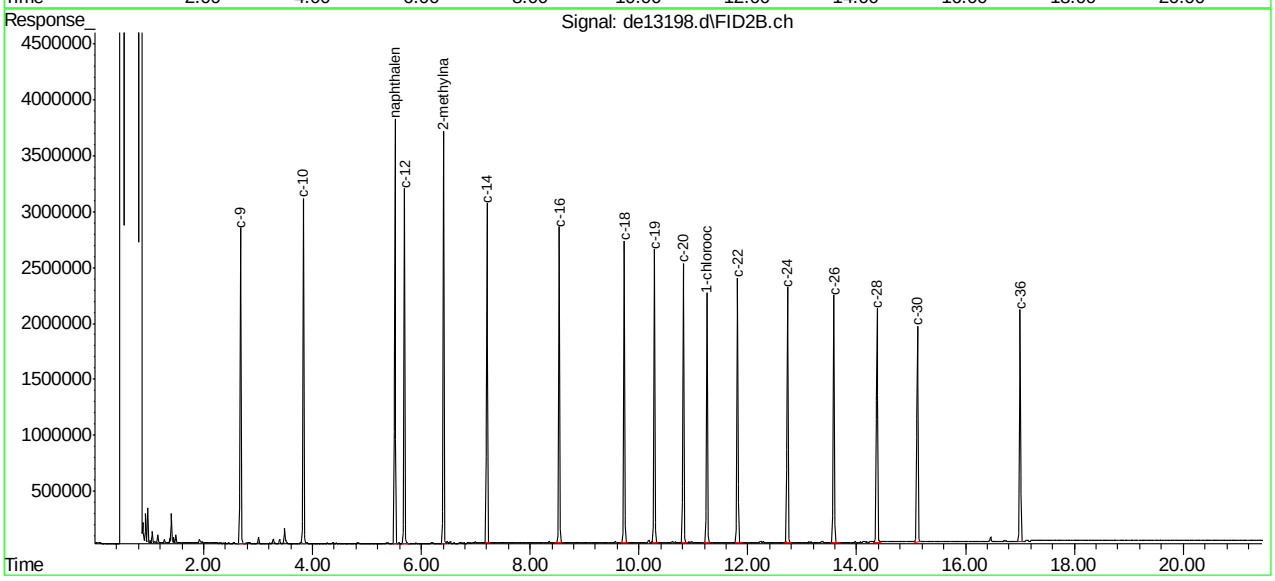
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

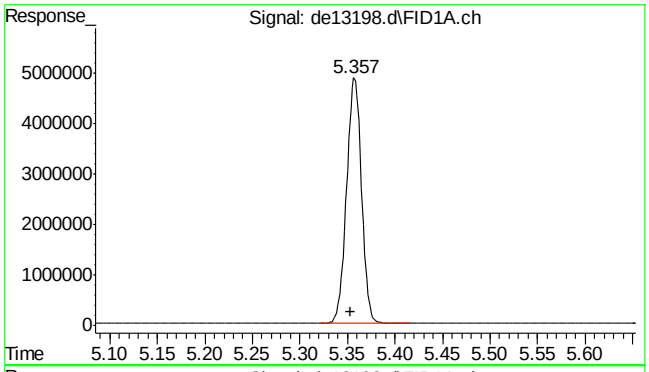
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





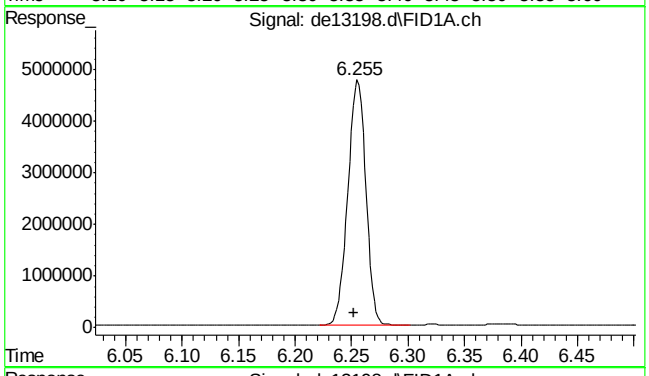
EPH160204W.M Fri Feb 05 14:30:14 2016 Page: 3

SGS ACCUTEST MC45897



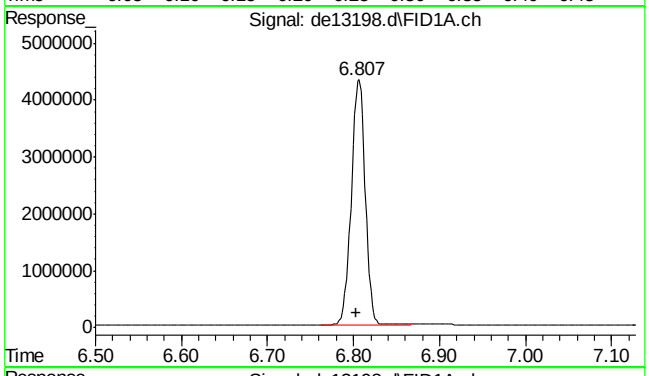
#2 naphthalene

R.T.: 5.357 min
Delta R.T.: 0.004 min
Response: 5321324
Conc: 51.59 µg/ml



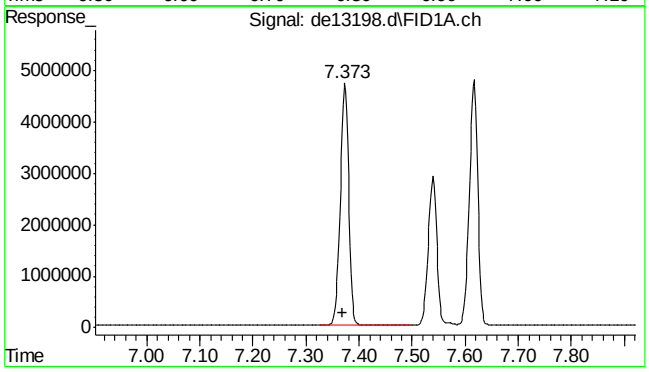
#3 2-methylnaphthalene

R.T.: 6.255 min
Delta R.T.: 0.003 min
Response: 5225758
Conc: 50.99 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 4785763
Conc: 51.89 µg/ml



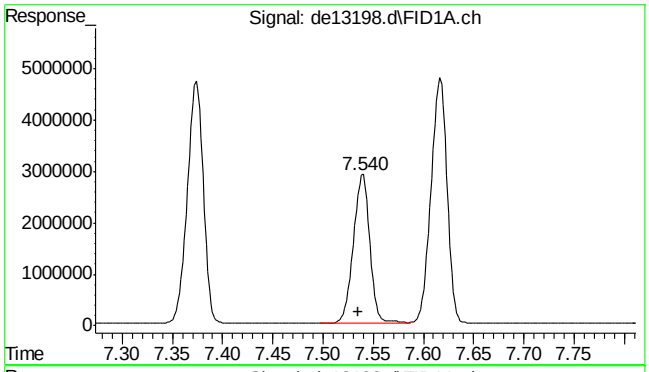
#5 acenaphthylene

R.T.: 7.373 min
Delta R.T.: 0.003 min
Response: 5189401
Conc: 51.58 µg/ml

9.5.8

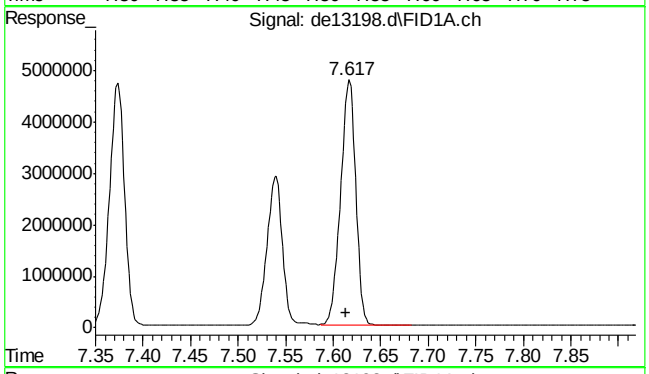
9

SGS ACCUTEST MC45897



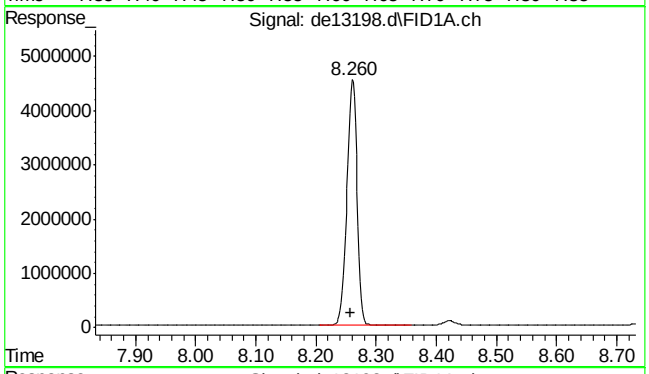
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 3261205
Conc: 51.97 µg/ml



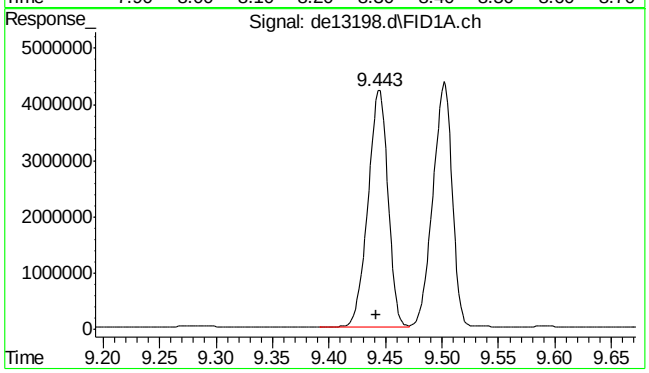
#7 acenaphthene

R.T.: 7.617 min
Delta R.T.: 0.004 min
Response: 5299977
Conc: 51.27 µg/ml



#8 fluorene

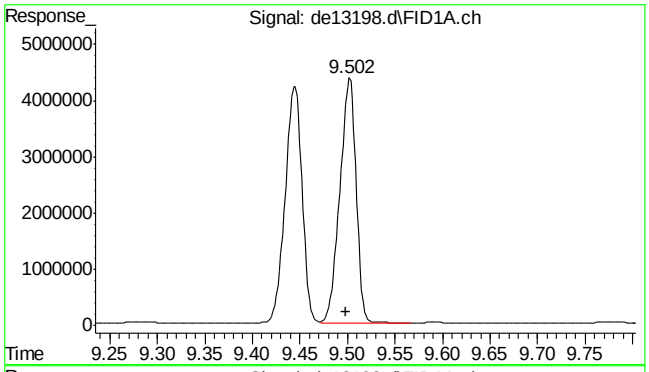
R.T.: 8.260 min
Delta R.T.: 0.003 min
Response: 5216935
Conc: 51.36 µg/ml



#9 phenanthrene

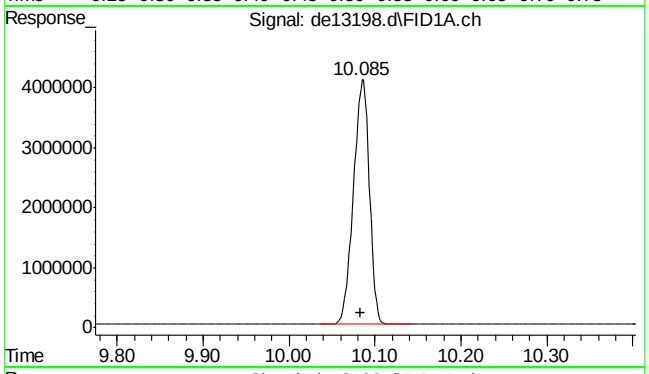
R.T.: 9.443 min
Delta R.T.: 0.001 min
Response: 5176102
Conc: 50.86 µg/ml

SGS ACCUTEST MC45897



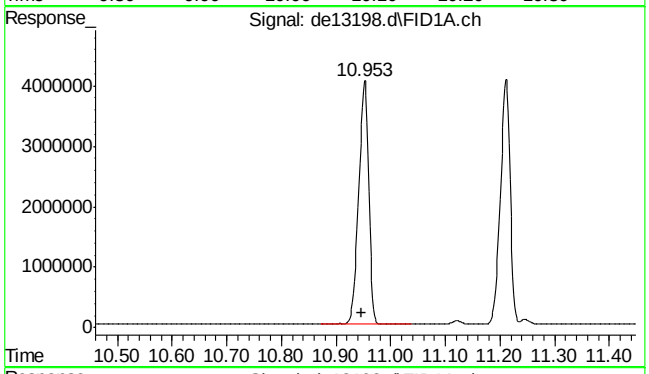
#10 anthracene

R.T.: 9.502 min
Delta R.T.: 0.004 min
Response: 5163442
Conc: 53.23 µg/ml



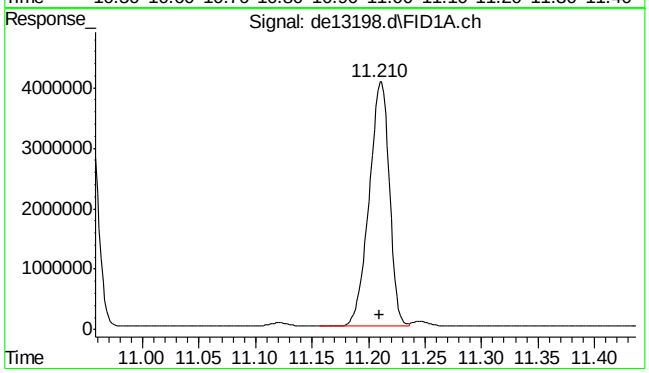
#11 o-terphenyl

R.T.: 10.085 min
Delta R.T.: 0.002 min
Response: 5227790
Conc: 51.04 µg/ml



#12 fluoranthene

R.T.: 10.953 min
Delta R.T.: 0.005 min
Response: 5147188
Conc: 51.50 µg/ml



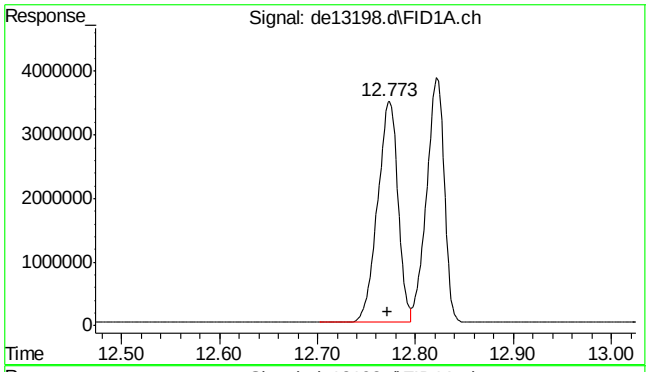
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5076986
Conc: 50.04 µg/ml

9.5.8

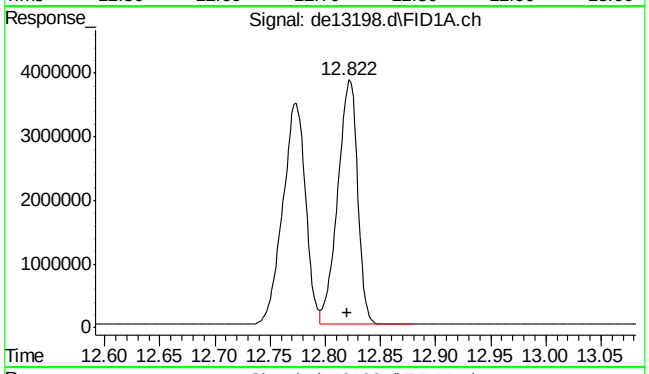
9

SGS ACCUTEST MC45897



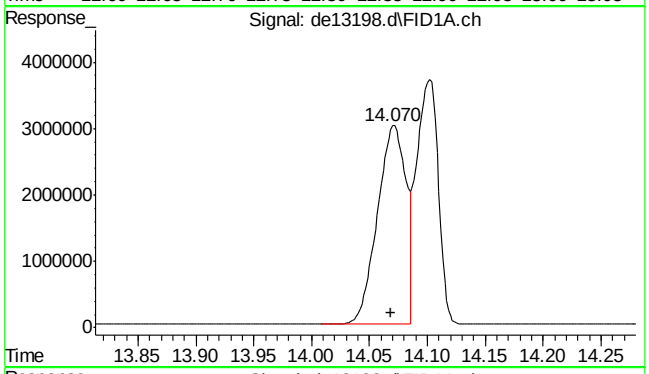
#14 benzo(a)anthracene

R.T.: 12.773 min
Delta R.T.: 0.001 min
Response: 5010585
Conc: 51.83 µg/ml m



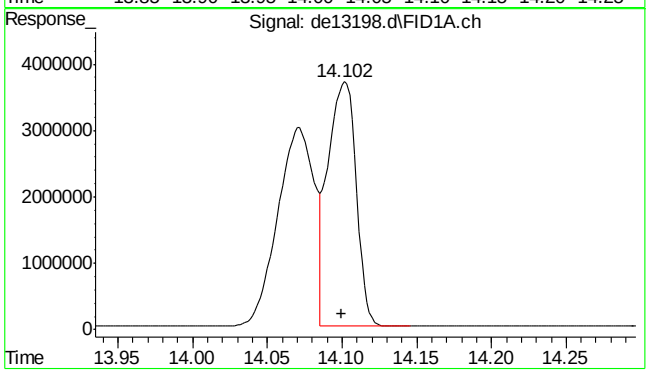
#15 chrysene

R.T.: 12.822 min
Delta R.T.: 0.002 min
Response: 4818393
Conc: 49.50 µg/ml m



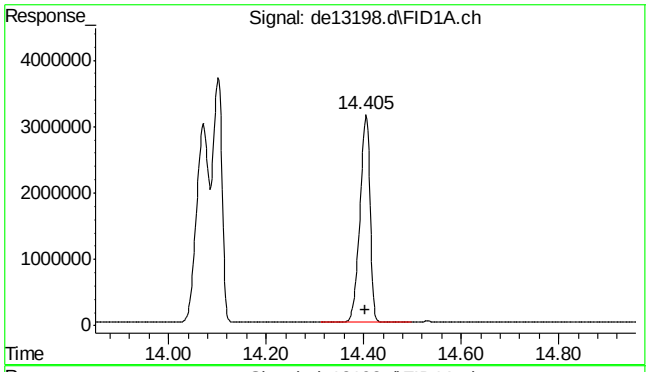
#16 benzo(B)fluoranthene

R.T.: 14.070 min
Delta R.T.: 0.002 min
Response: 5126155
Conc: 51.78 µg/ml m



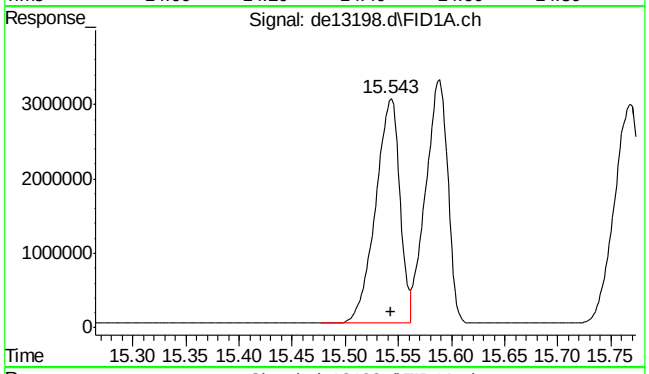
#17 benzo(k)fluoranthene

R.T.: 14.102 min
Delta R.T.: 0.002 min
Response: 4808431
Conc: 50.88 µg/ml m



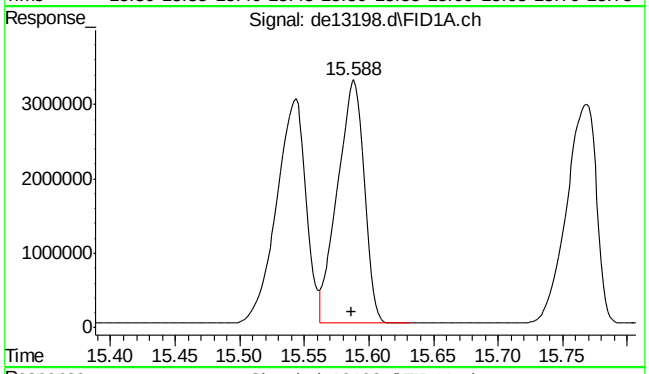
#18 benzo(a)pyrene

R.T.: 14.405 min
Delta R.T.: 0.003 min
Response: 4486318
Conc: 48.53 µg/ml



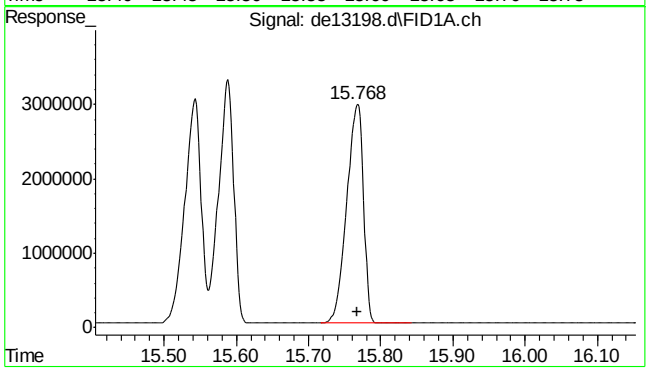
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4825283
Conc: 50.98 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.588 min
Delta R.T.: 0.001 min
Response: 4714989
Conc: 51.59 µg/ml



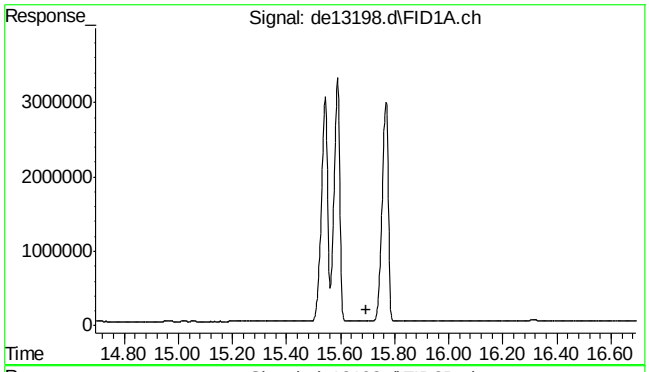
#21 benzo(ghi)perylene

R.T.: 15.768 min
Delta R.T.: 0.001 min
Response: 4765990
Conc: 51.73 µg/ml

9.5.8

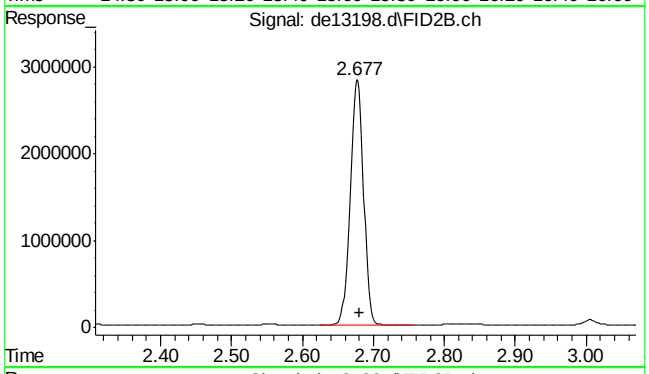
9

SGS ACCUTEST MC45897



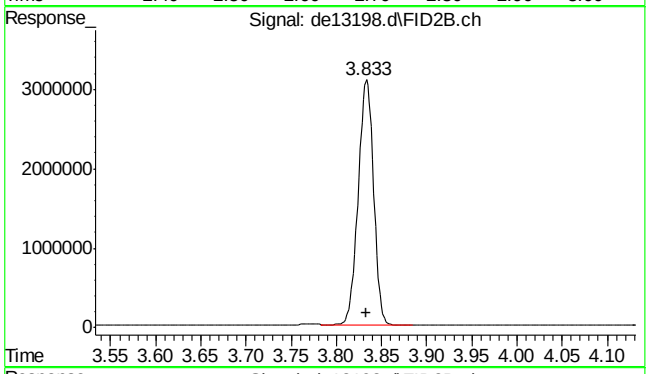
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



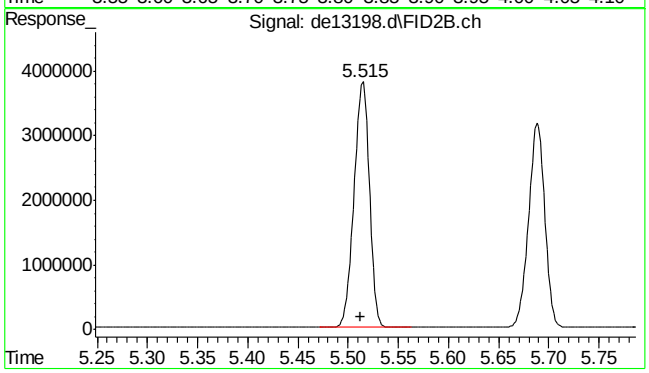
#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3669865
Conc: 49.68 µg/ml m



#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3682081
Conc: 49.84 µg/ml



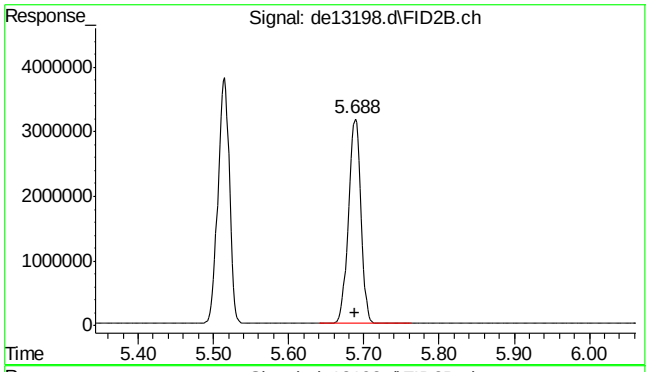
#27 naphthalene #2

R.T.: 5.515 min
Delta R.T.: 0.002 min
Response: 4035939
Conc: 50.53 µg/ml

9.5.8

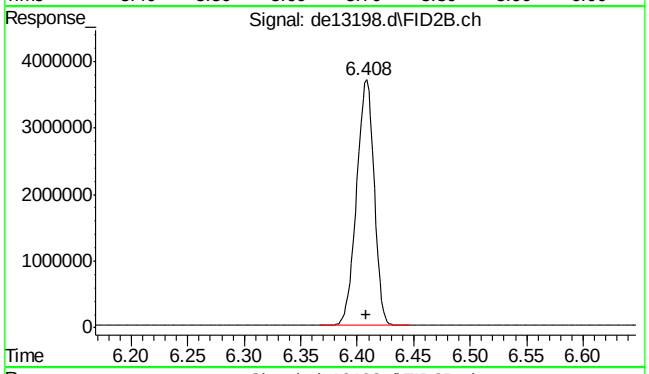
9

SGS ACCUTEST MC45897



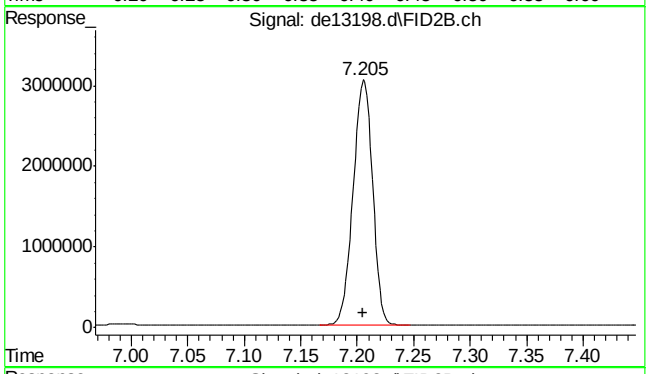
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3625160
Conc: 49.07 µg/ml



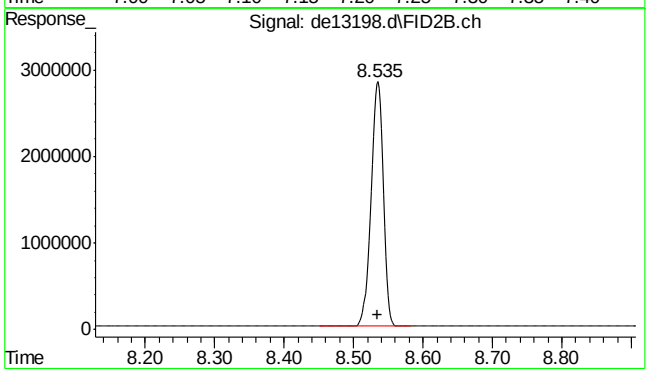
#29 2-methylnaphthalene #2

R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3954192
Conc: 49.08 µg/ml



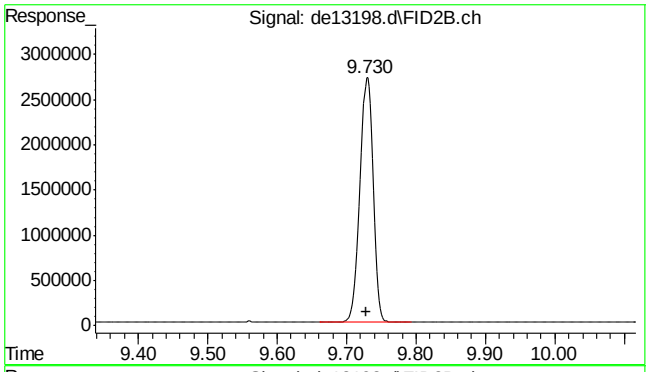
#30 c-14

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3605226
Conc: 48.80 µg/ml



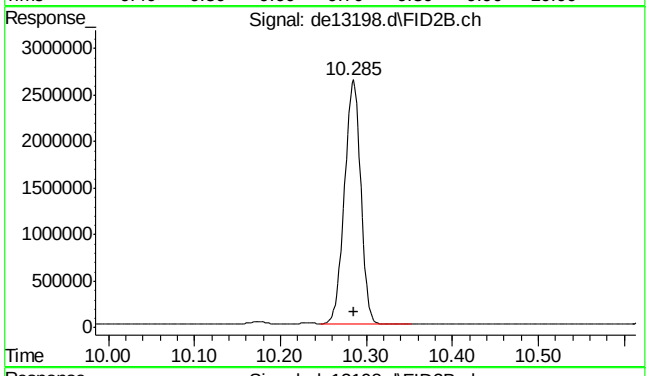
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3538485
Conc: 47.90 µg/ml



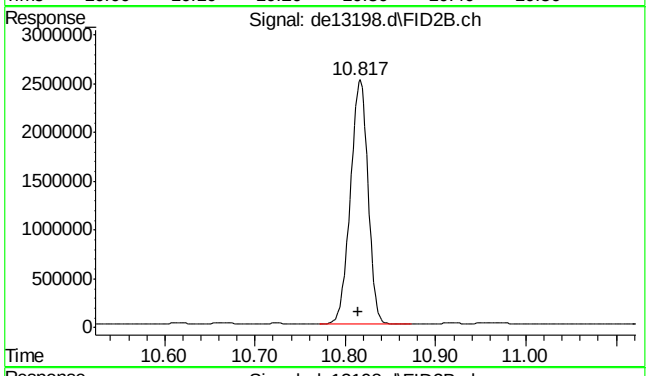
#32 c-18

R.T.: 9.730 min
Delta R.T.: 0.002 min
Response: 3494684
Conc: 47.31 µg/ml



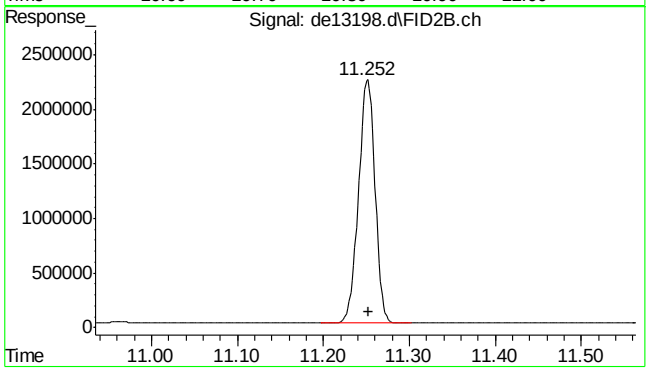
#33 c-19

R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3424371
Conc: 51.26 µg/ml



#34 c-20

R.T.: 10.817 min
Delta R.T.: 0.002 min
Response: 3390870
Conc: 50.76 µg/ml



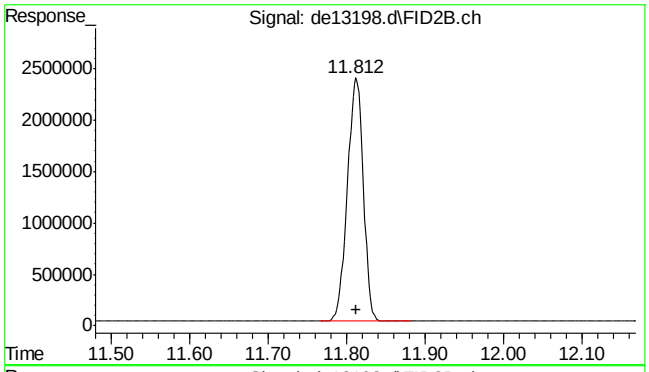
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2968966
Conc: 52.48 µg/ml

9.5.8

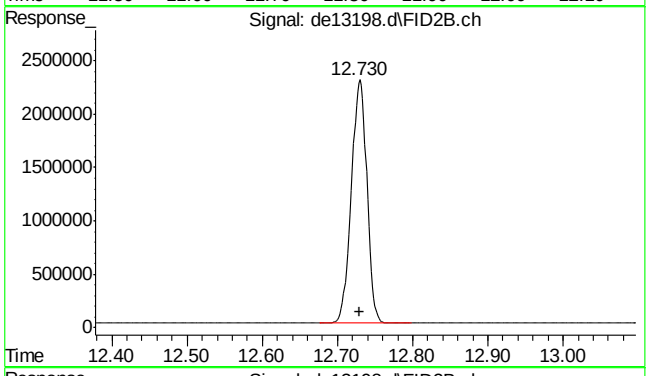
9

SGS ACCUTEST MC45897



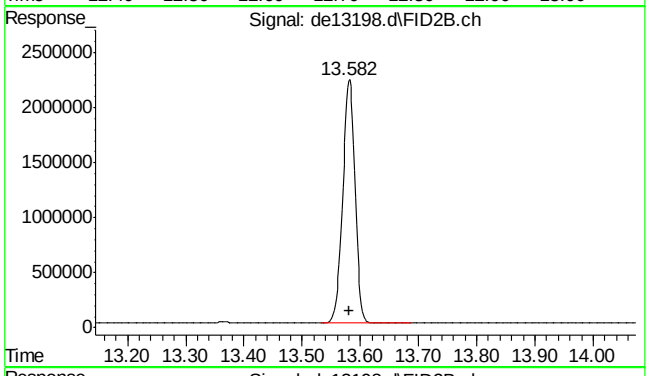
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3335369
Conc: 49.93 µg/ml



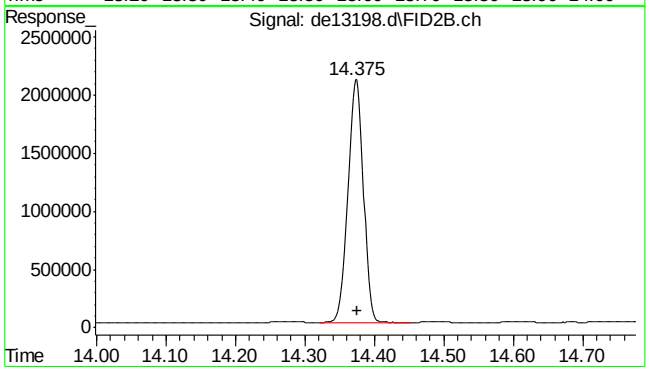
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3275936
Conc: 49.04 µg/ml



#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3251556
Conc: 48.67 µg/ml



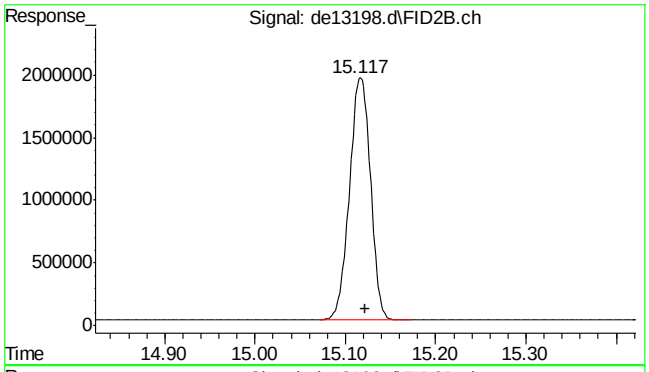
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3204302
Conc: 47.96 µg/ml

9.5.8

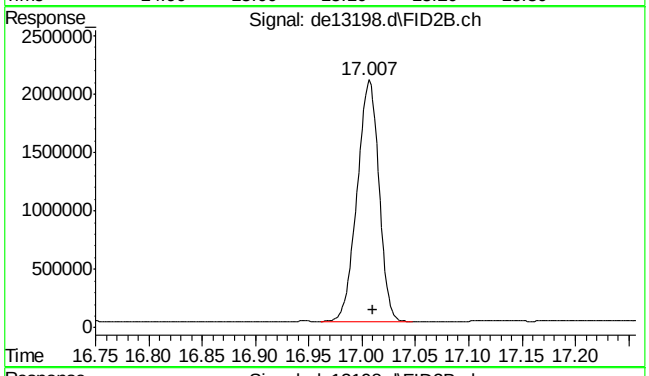
9

SGS ACCUTEST MC45897



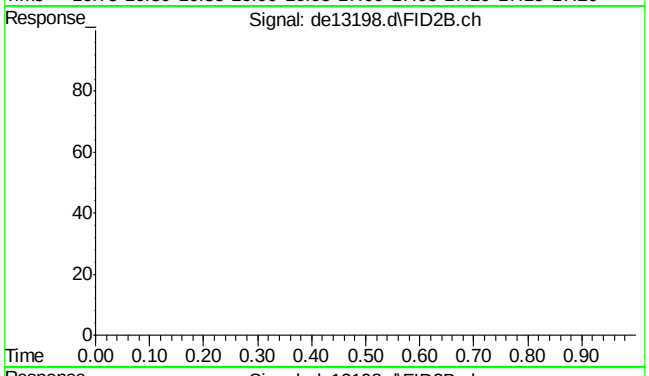
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3143578
Conc: 47.06 µg/ml



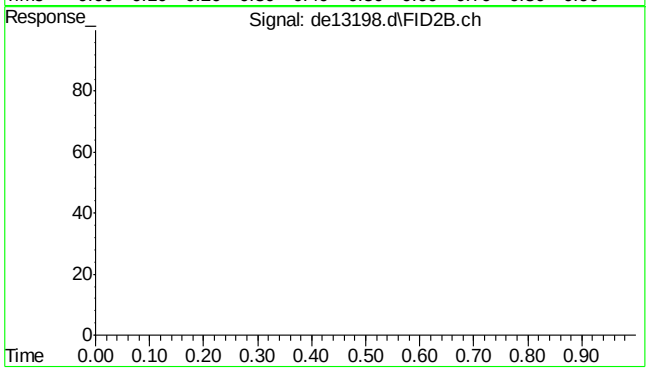
#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2933493
Conc: 43.91 µg/ml m



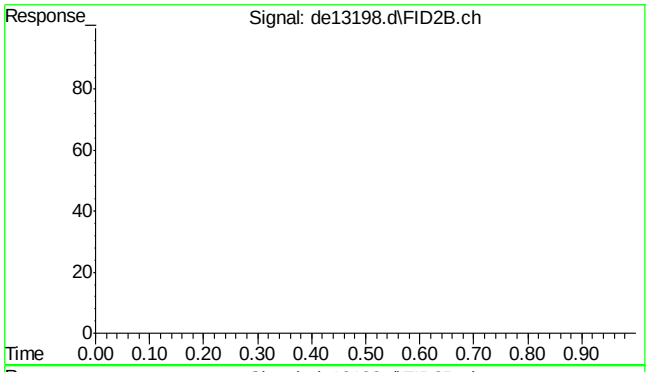
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



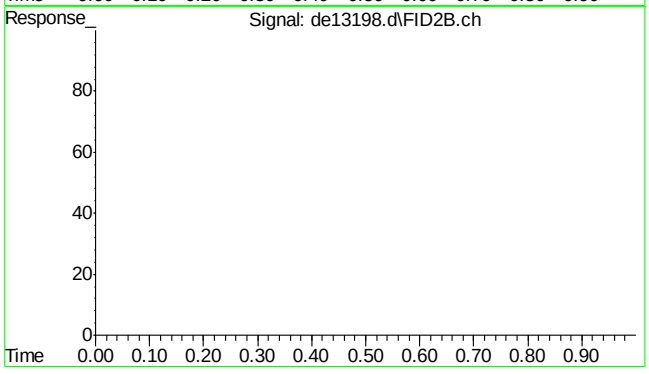
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```



#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

9.5.8

9

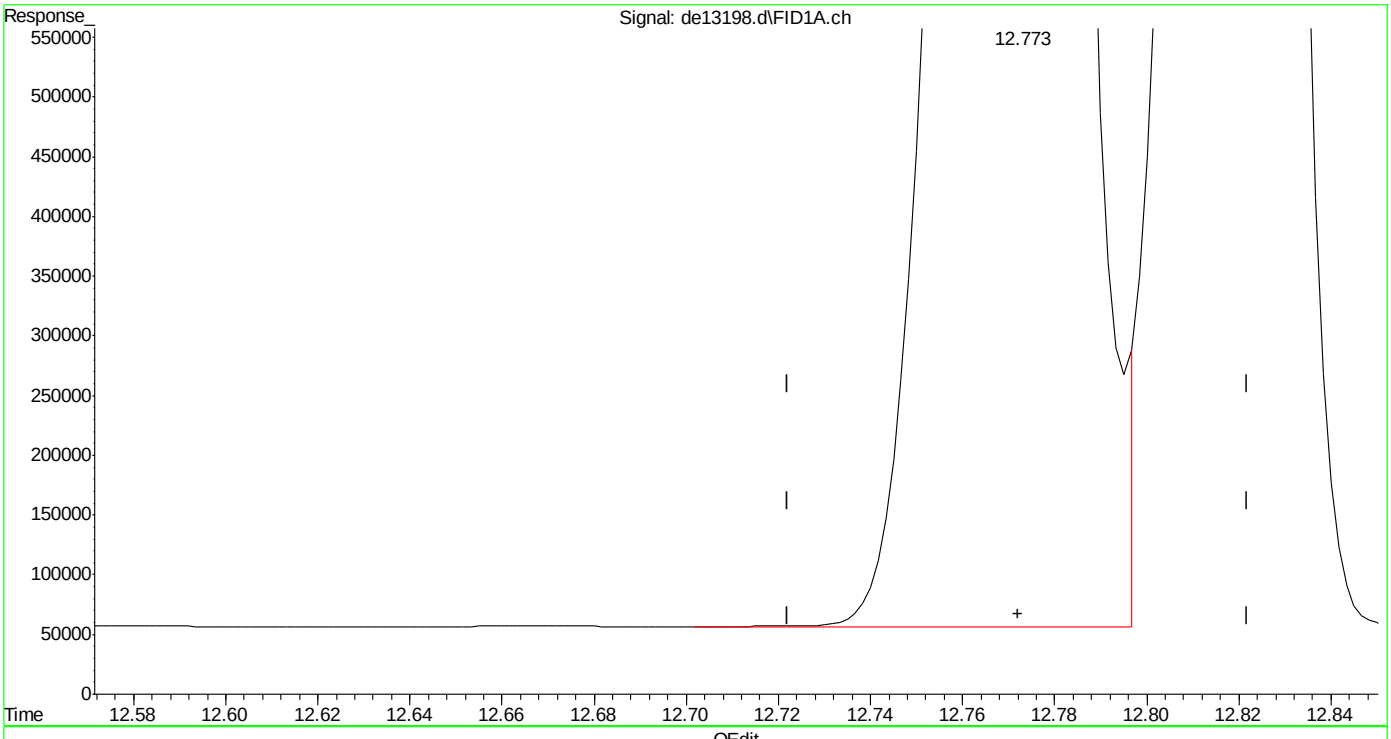
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.773min 52.075 µg/ml
response 5034310

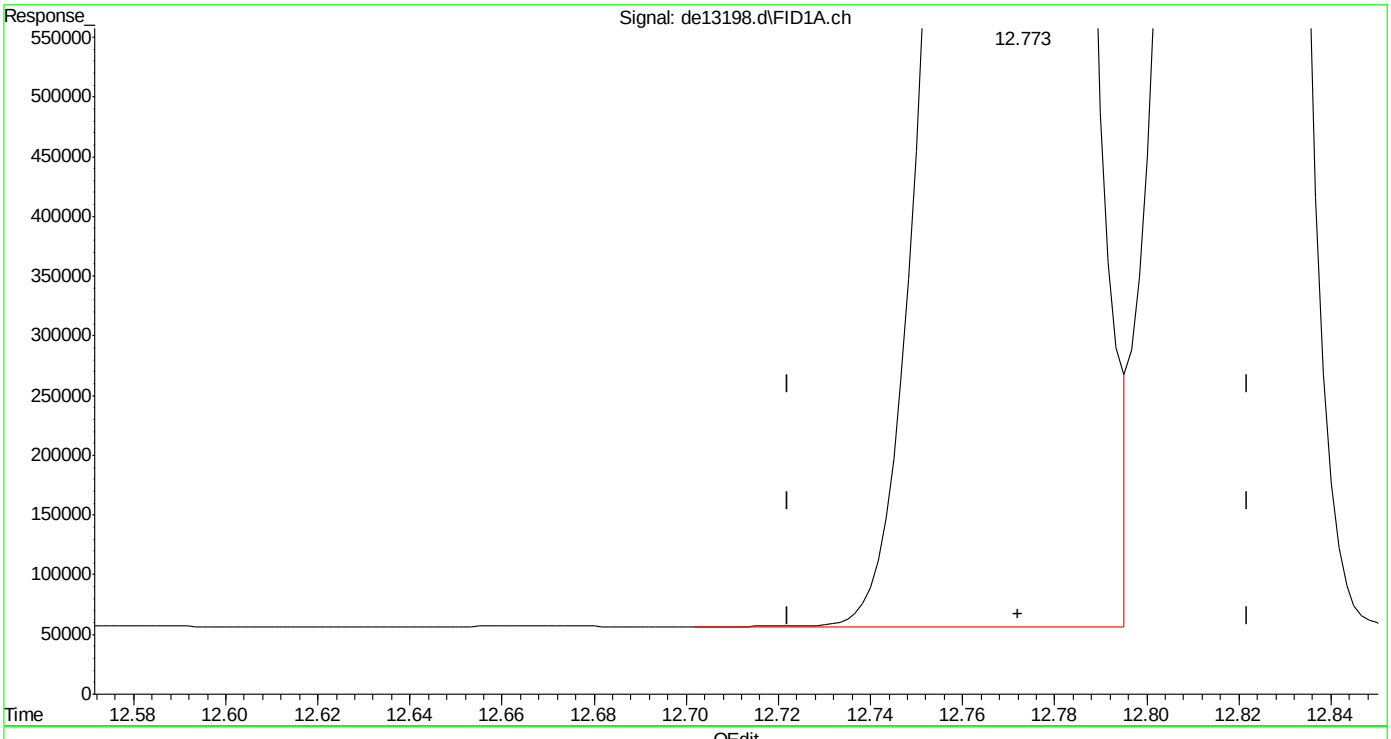
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.773min 51.829 µg/ml m
response 5010585

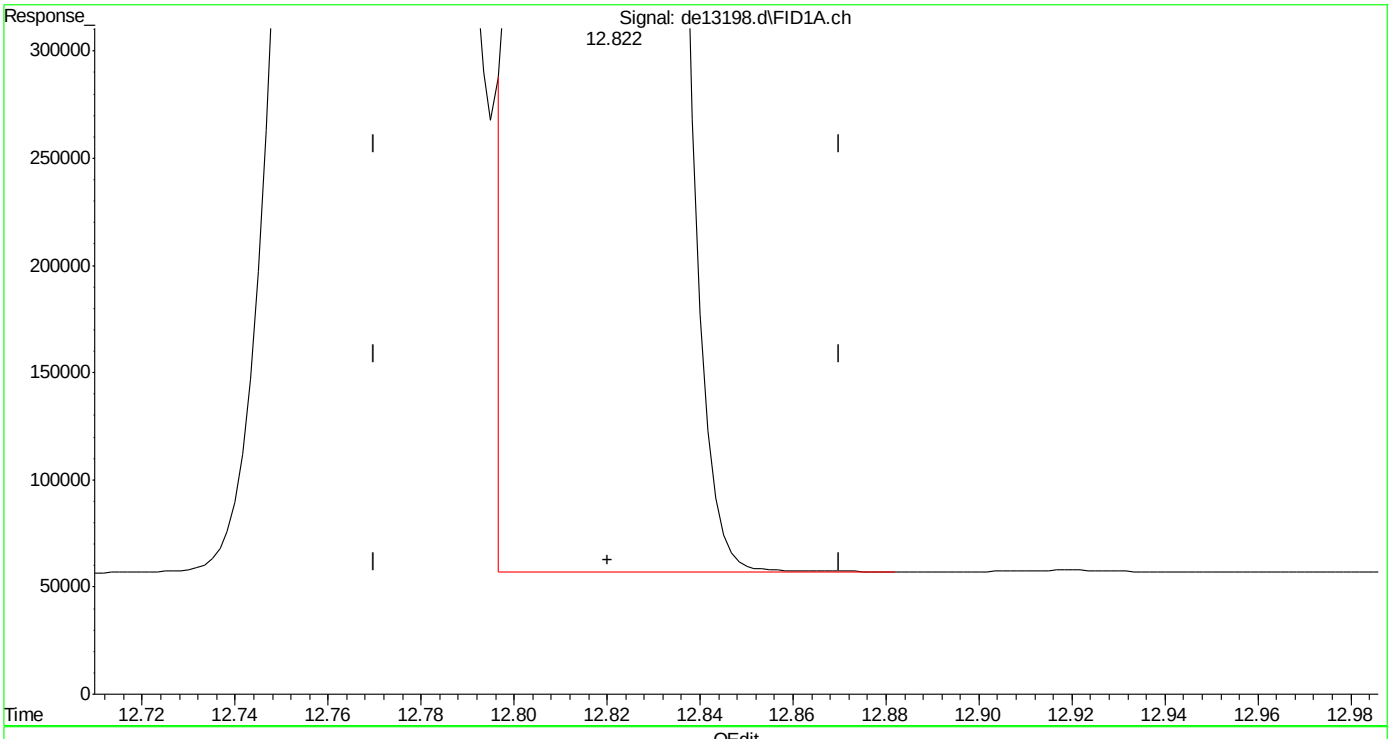
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.822min 49.264 µg/ml
response 4795363

(+) = Expected Retention Time
EPH160204W.M Fri Feb 05 11:46:32 2016

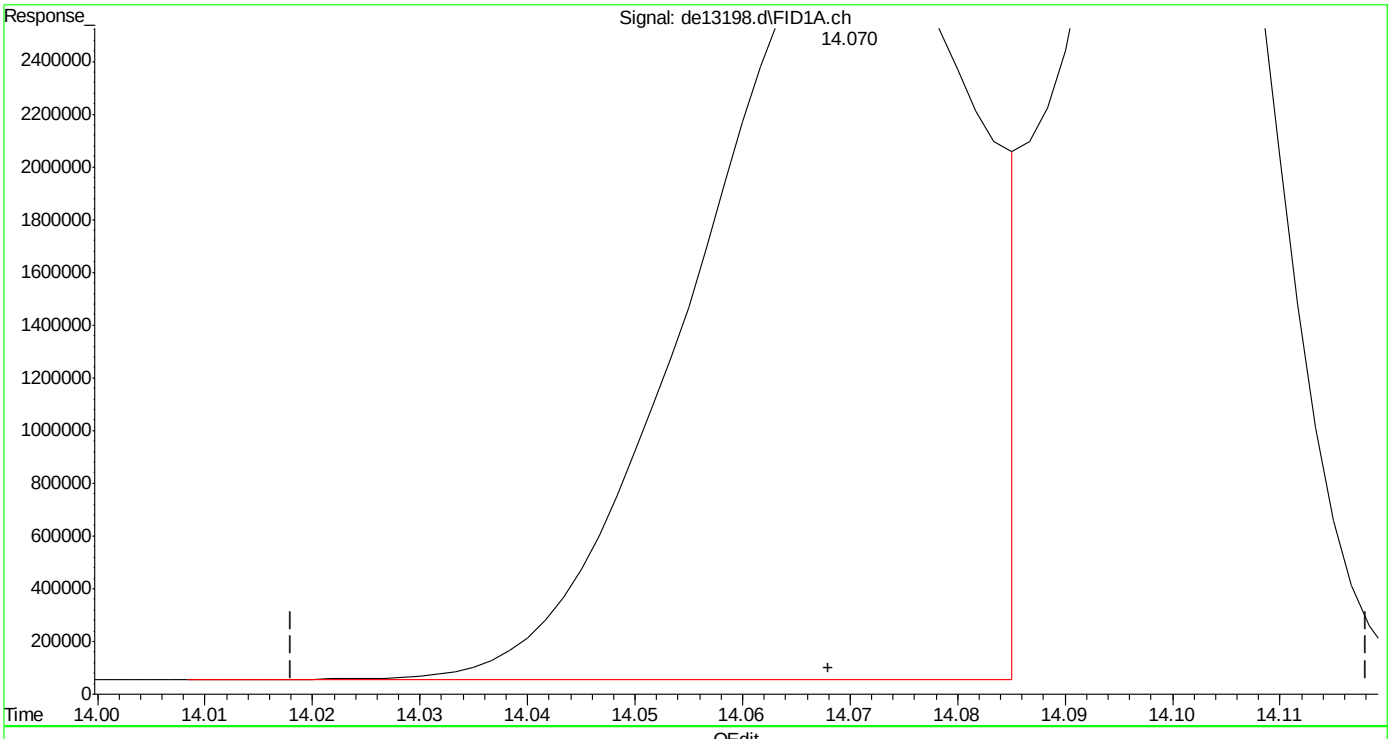
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
14.070min 51.778 µg/ml m
response 5126155

(+) = Expected Retention Time

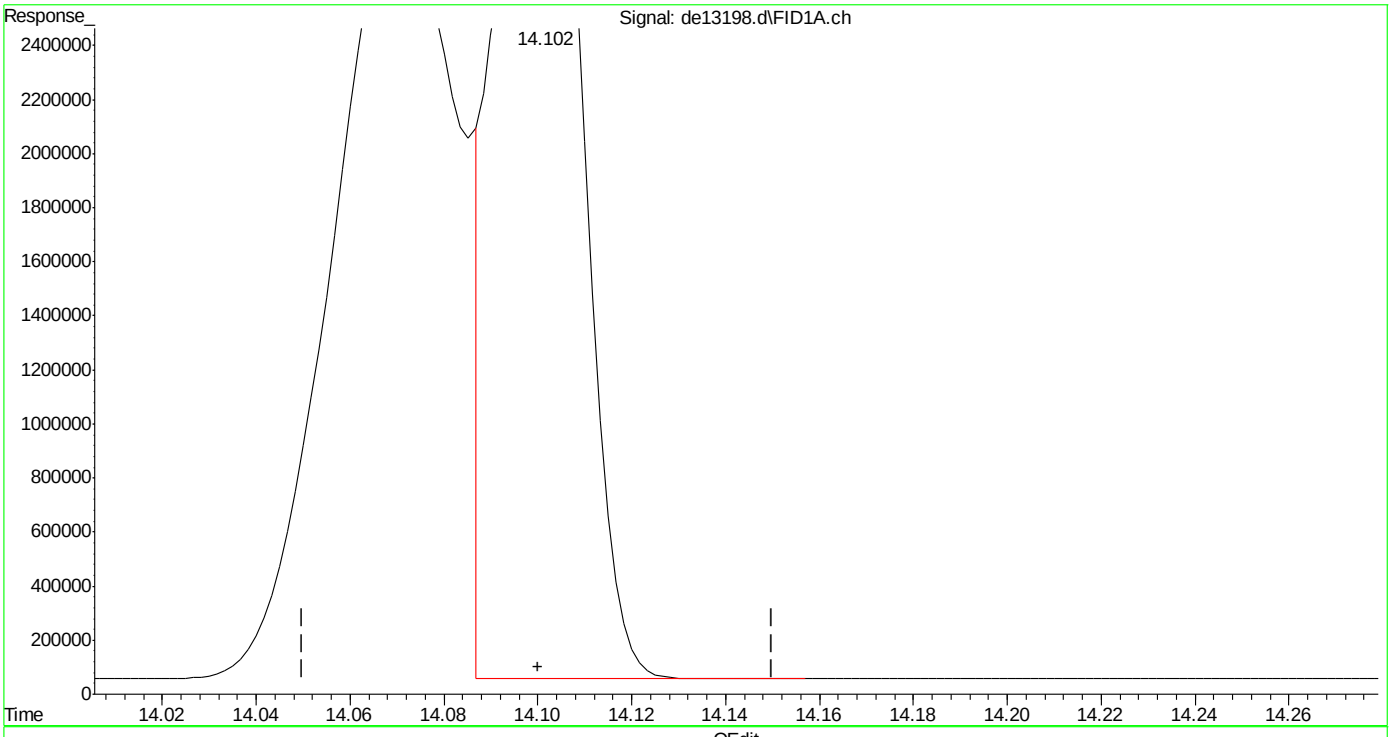
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.102min 48.745 µg/ml
response 4606556

(+) = Expected Retention Time

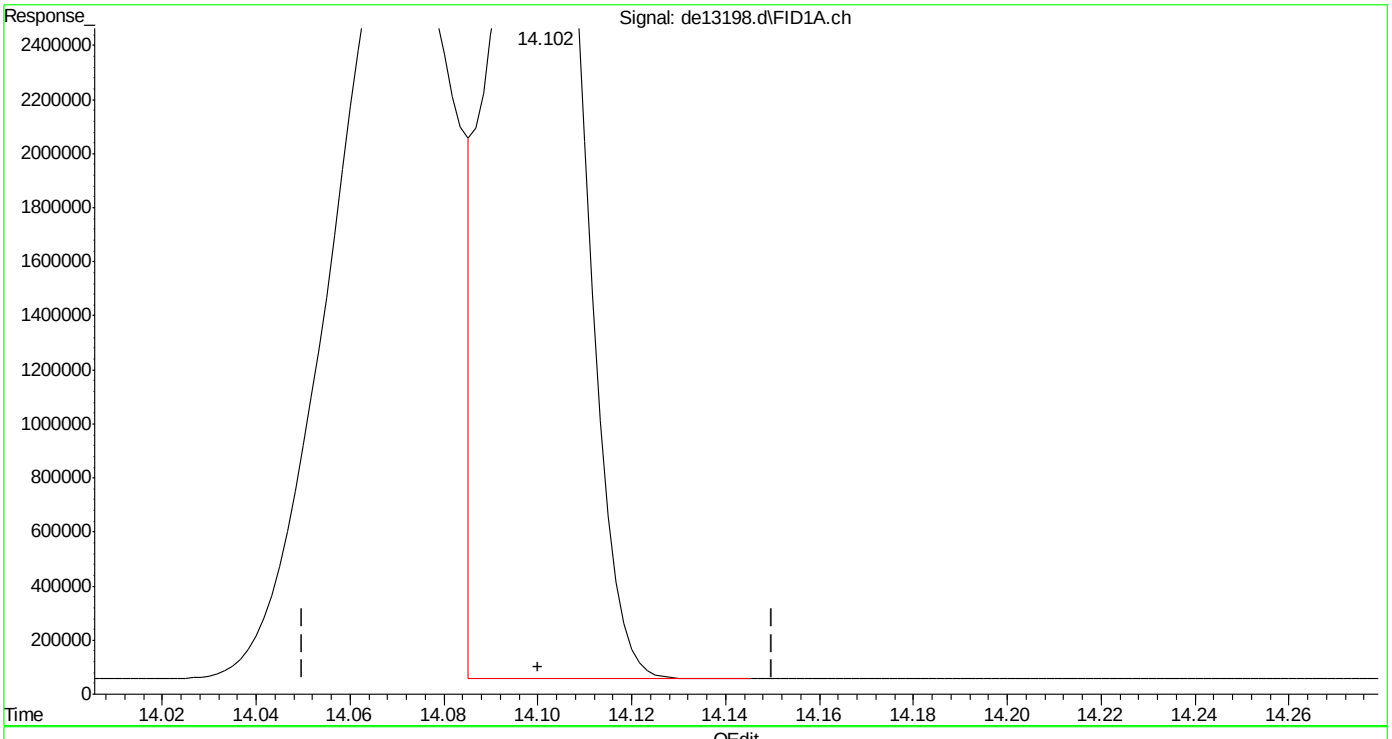
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
14.102min 50.882 µg/ml m
response 4808431

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/20/16 15:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:34:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.603	4851506	52.602 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 263.01%#		
6) s 2-bromonaphthalene	7.332	3298455	52.561 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 262.81%#		
11) s o-terphenyl	9.872	5506827	53.764 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 268.82%#		
35) s 1-chlorooctadecane	11.225	3072971	54.317 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 271.59%#		
Target Compounds			
2) naphthalene	5.150	5394963	52.307 µg/ml
3) 2-methylnaphthalene	6.050	5301334	51.729 µg/ml
5) acenaphthylene	7.165	5351770	53.198 µg/ml
7) acenaphthene	7.407	5598556	54.157 µg/ml
8) fluorene	8.050	5469988	53.856 µg/ml
9) phenanthrene	9.230	5472047	53.773 µg/ml
10) anthracene	9.288	5276499	54.392 µg/ml
12) fluoranthene	10.733	5413910	54.171 µg/ml
13) pyrene	10.990	5549632	54.696 µg/ml
14) benzo(a)anthracene	12.552	5196175	53.749 µg/mlm
15) chrysene	12.600	5256229	53.998 µg/mlm
16) benzo(B)fluoranthene	13.848	5333106	53.868 µg/mlm
17) benzo(k)fluoranthene	13.882	5199462	55.019 µg/mlm
18) benzo(a)pyrene	14.183	5011590	54.217 µg/ml
19) indeno(1,2,3-cd)pyrene	15.327	5169341	54.611 µg/ml
20) dibenzo(ah)anthracene	15.368	5018450	54.907 µg/ml
21) benzo(ghi)perylene	15.550	5057074	54.895 µg/ml
25) h c-9	2.647	3935966	53.281 µg/mlm
26) h c-10	3.815	3969880	53.740 µg/ml
27) naphthalene #2	5.488	4238041	53.060 µg/ml
28) c-12	5.667	3936027	53.282 µg/ml
29) 2-methylnaphthalene #2	6.382	4231454	52.521 µg/ml
30) c-14	7.183	3916093	53.012 µg/ml
31) c-16	8.512	3890629	52.667 µg/ml
32) c-18	9.707	3907027	52.889 µg/ml
33) c-19	10.262	3873129	57.975 µg/ml
34) c-20	10.792	3805939	56.970 µg/ml
36) c-22	11.788	3783106	56.628 µg/ml
37) c-24	12.705	3543501	53.041 µg/ml
38) c-26	13.555	3766774	56.383 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:34:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.348	3641482	54.508	µg/ml
40) h	c-30	15.098	3616898	54.140	µg/mlm
41) h	c-36	16.983	3260454	48.804	µg/mlm

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

9.5.9

9

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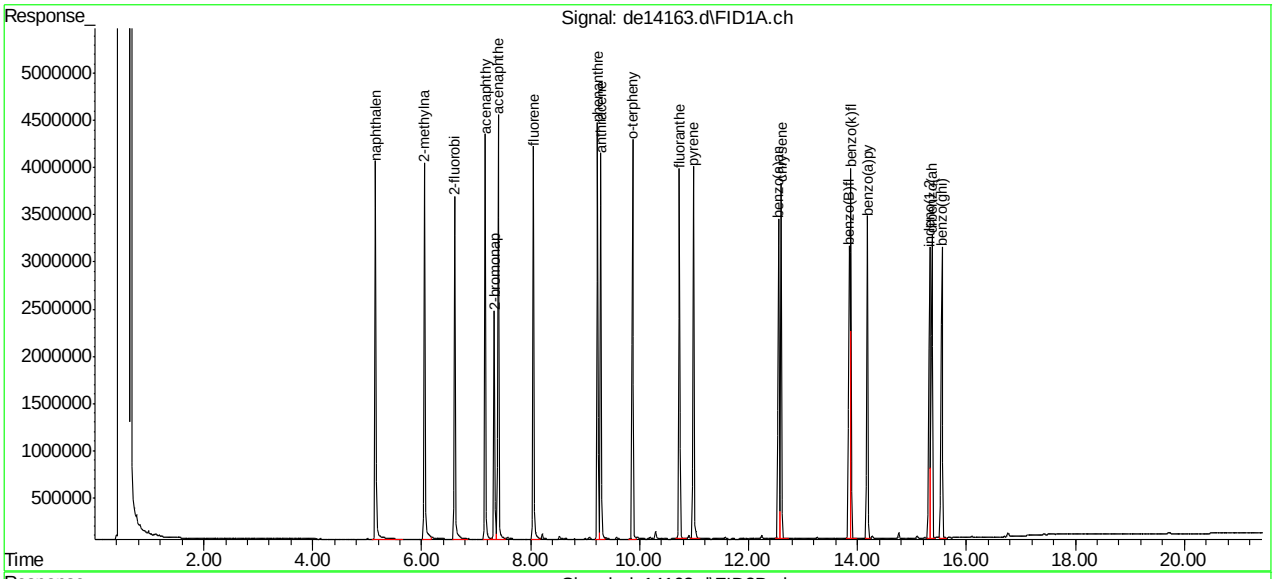
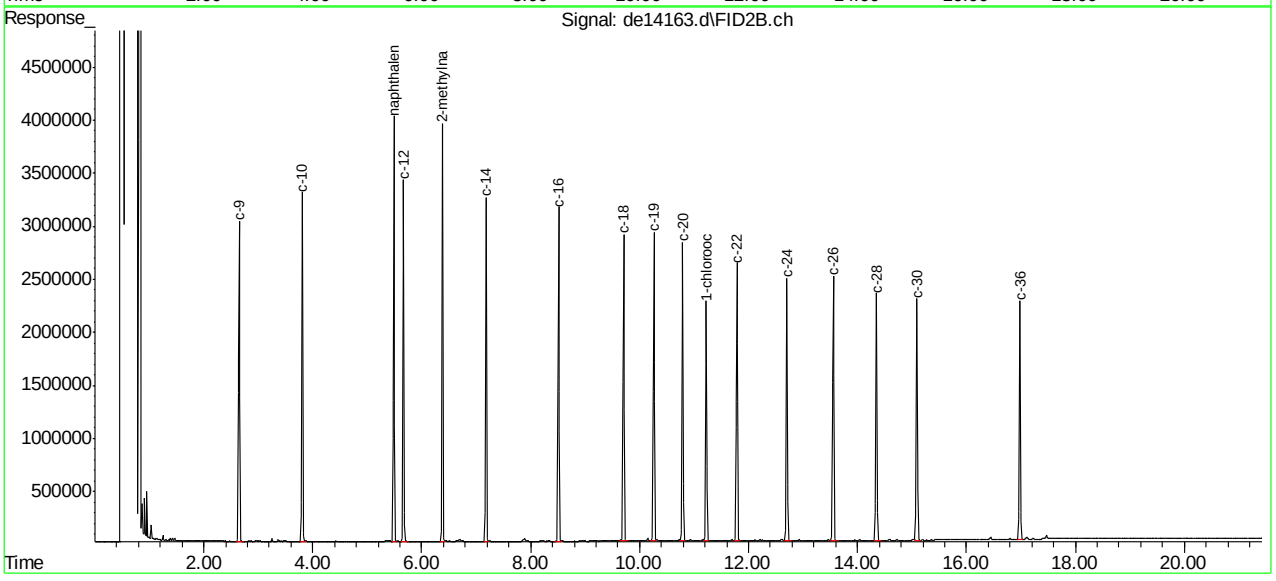
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

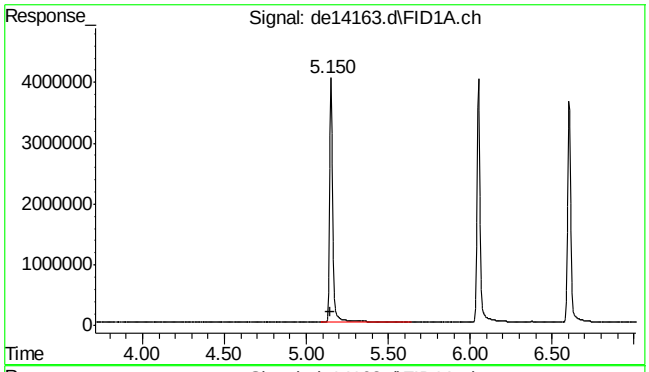
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:34:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



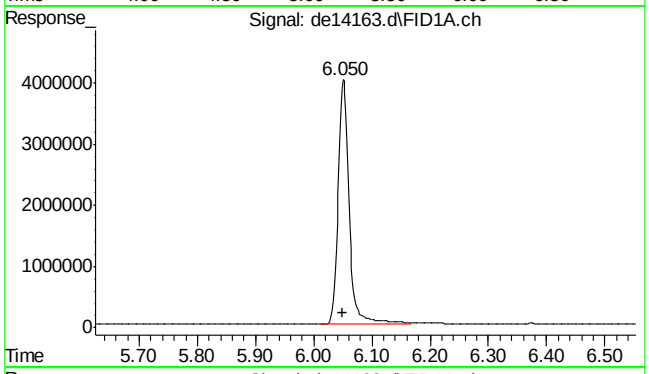


SGS ACCUTEST MC45897



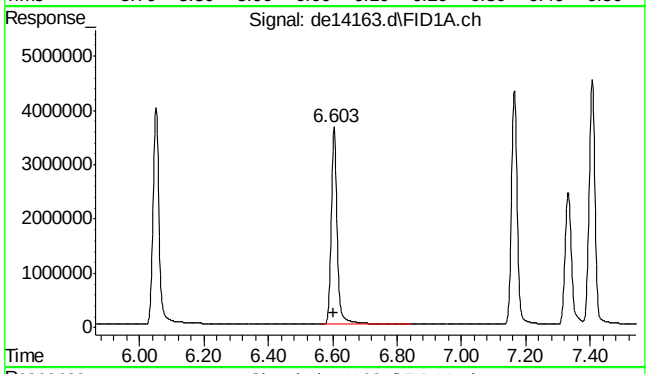
#2 naphthalene

R.T.: 5.150 min
Delta R.T.: 0.000 min
Response: 5394963
Conc: 52.31 µg/ml



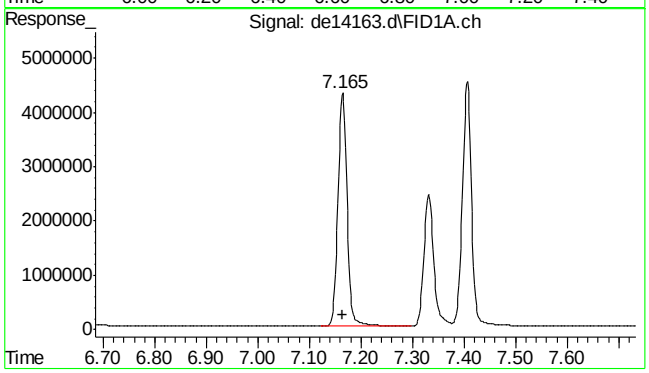
#3 2-methylnaphthalene

R.T.: 6.050 min
Delta R.T.: 0.000 min
Response: 5301334
Conc: 51.73 µg/ml



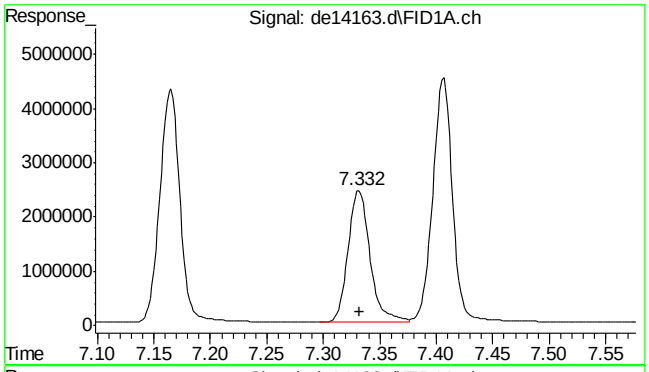
#4 2-fluorobiphenyl

R.T.: 6.603 min
Delta R.T.: 0.000 min
Response: 4851506
Conc: 52.60 µg/ml



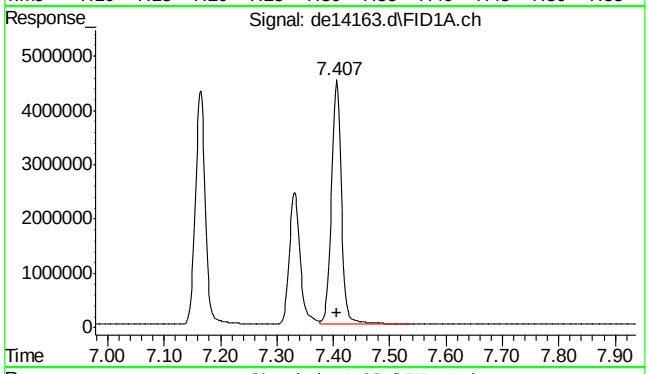
#5 acenaphthylene

R.T.: 7.165 min
Delta R.T.: 0.000 min
Response: 5351770
Conc: 53.20 µg/ml



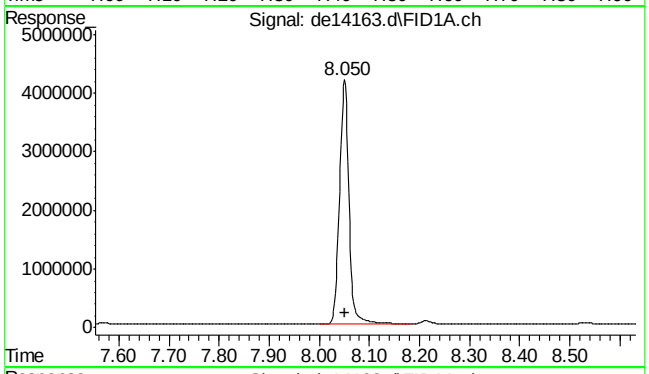
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 3298455
Conc: 52.56 µg/ml



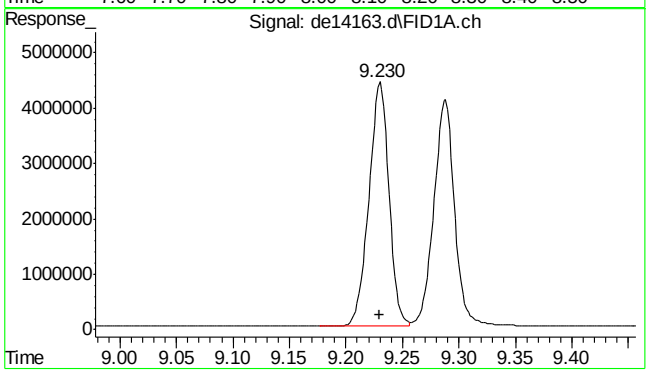
#7 acenaphthene

R.T.: 7.407 min
Delta R.T.: 0.000 min
Response: 5598556
Conc: 54.16 µg/ml



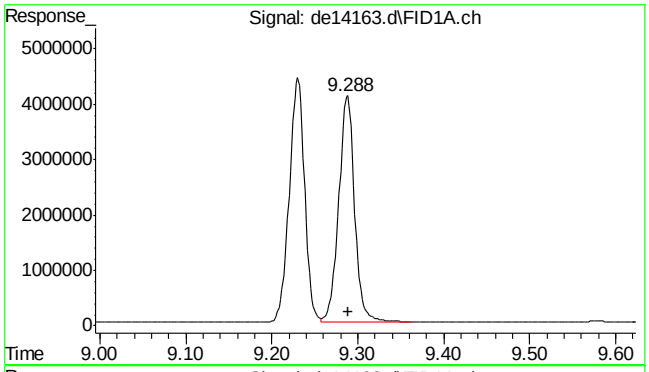
#8 fluorene

R.T.: 8.050 min
Delta R.T.: 0.000 min
Response: 5469988
Conc: 53.86 µg/ml



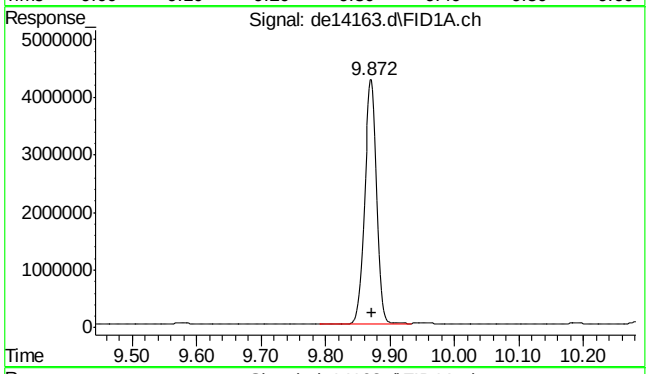
#9 phenanthrene

R.T.: 9.230 min
Delta R.T.: 0.000 min
Response: 5472047
Conc: 53.77 µg/ml



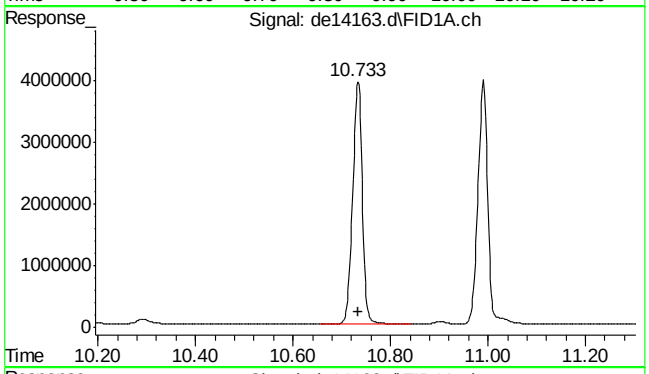
#10 anthracene

R.T.: 9.288 min
Delta R.T.: 0.000 min
Response: 5276499
Conc: 54.39 µg/ml



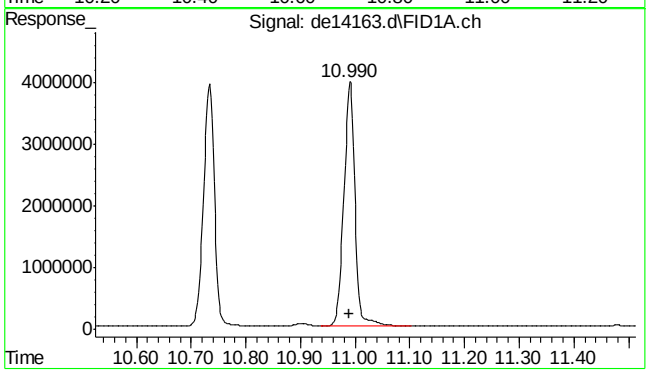
#11 o-terphenyl

R.T.: 9.872 min
Delta R.T.: 0.000 min
Response: 5506827
Conc: 53.76 µg/ml



#12 fluoranthene

R.T.: 10.733 min
Delta R.T.: 0.000 min
Response: 5413910
Conc: 54.17 µg/ml



#13 pyrene

R.T.: 10.990 min
Delta R.T.: 0.000 min
Response: 5549632
Conc: 54.70 µg/ml

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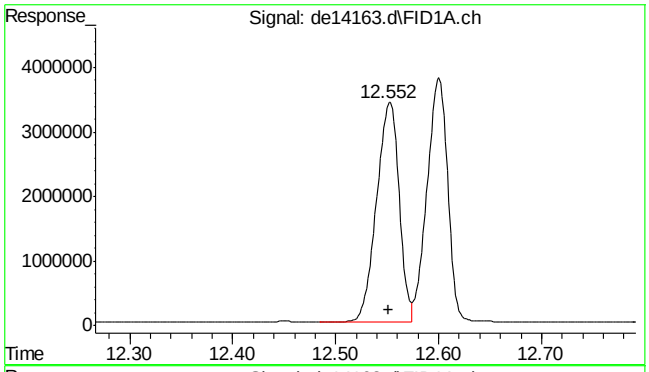
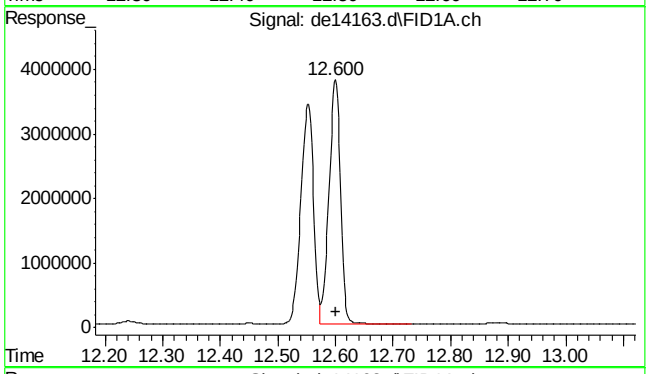


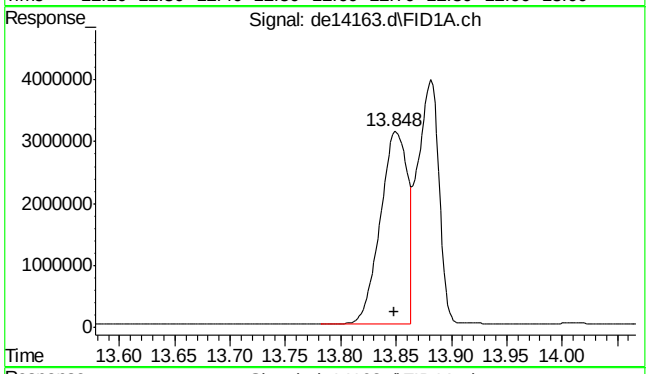
#14 benzo(a)anthracene

R.T.: 12.552 min
Delta R.T.: 0.000 min
Response: 5196175
Conc: 53.75 µg/ml m



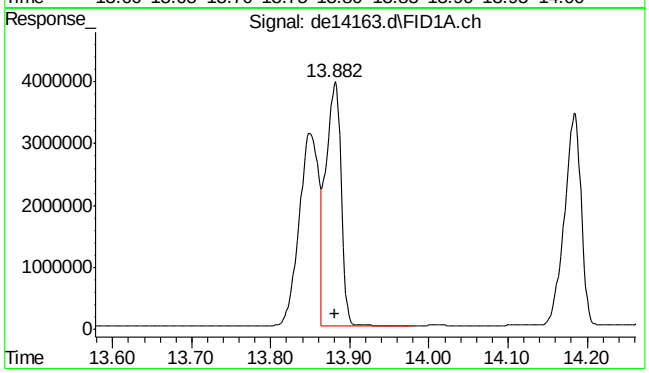
#15 chrysene

R.T.: 12.600 min
Delta R.T.: 0.000 min
Response: 5256229
Conc: 54.00 µg/ml m



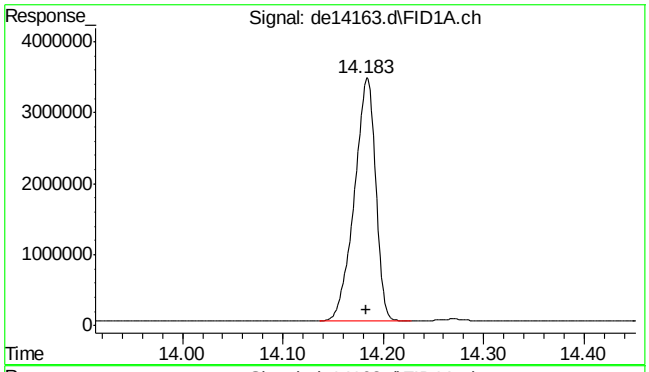
#16 benzo(B)fluoranthene

R.T.: 13.848 min
Delta R.T.: 0.000 min
Response: 5333106
Conc: 53.87 µg/ml m



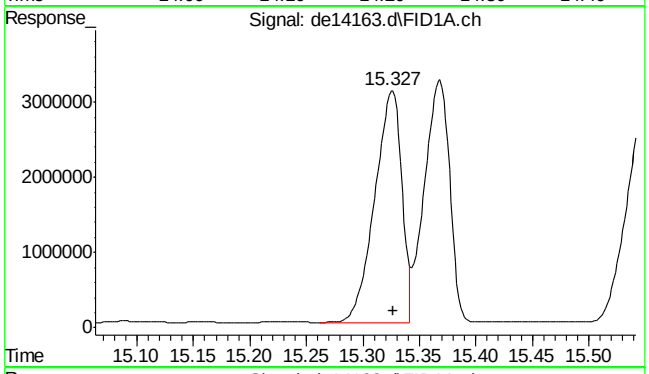
#17 benzo(k)fluoranthene

R.T.: 13.882 min
Delta R.T.: 0.000 min
Response: 5199462
Conc: 55.02 µg/ml m



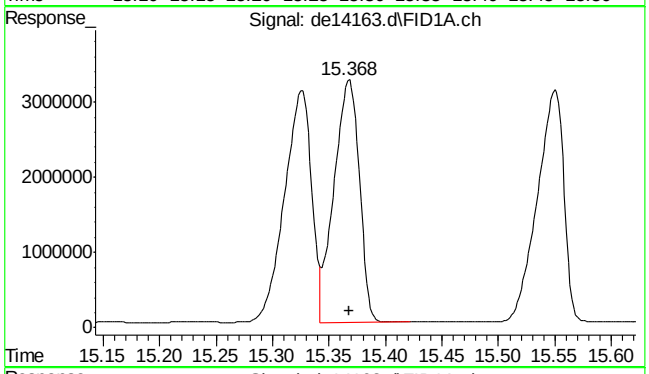
#18 benzo(a)pyrene

R.T.: 14.183 min
Delta R.T.: 0.000 min
Response: 5011590
Conc: 54.22 µg/ml



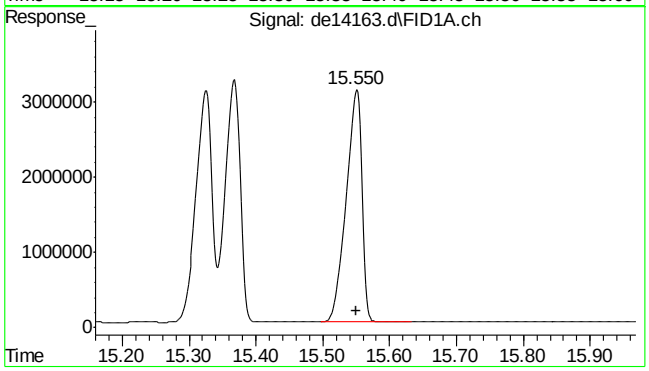
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.327 min
Delta R.T.: 0.000 min
Response: 5169341
Conc: 54.61 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.368 min
Delta R.T.: 0.000 min
Response: 5018450
Conc: 54.91 µg/ml



#21 benzo(ghi)perylene

R.T.: 15.550 min
Delta R.T.: 0.000 min
Response: 5057074
Conc: 54.89 µg/ml

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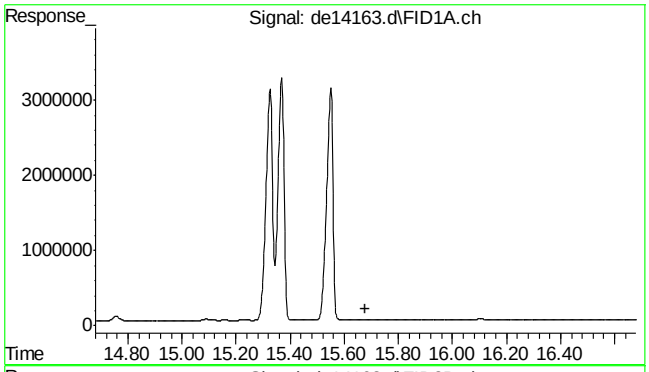
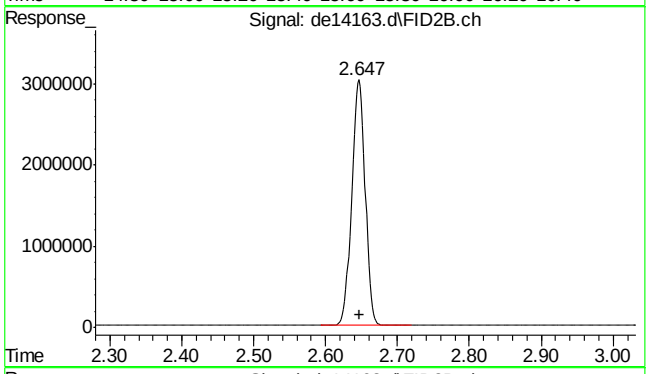


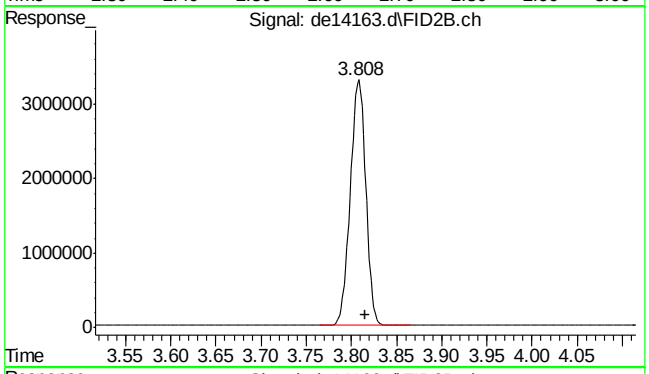
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



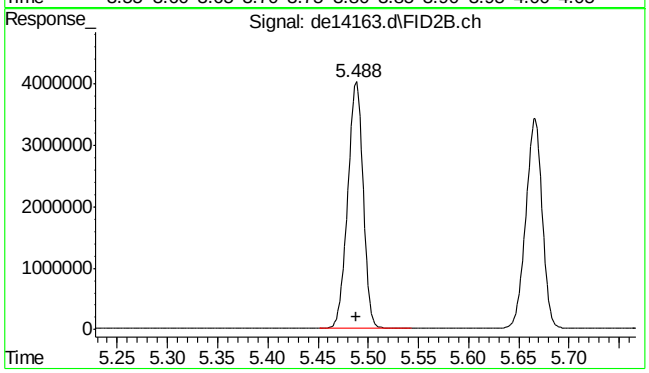
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 3935966
Conc: 53.28 µg/ml m



#26 c-10

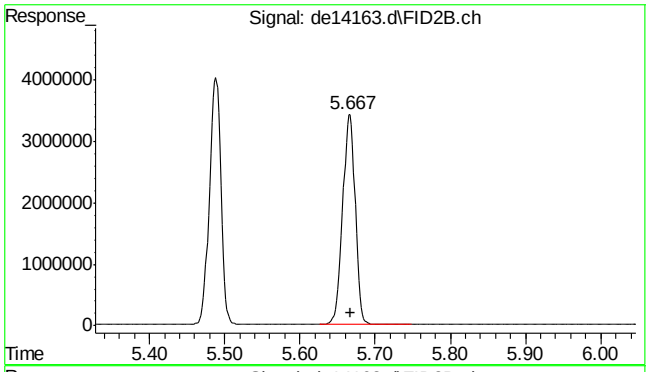
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3969880
Conc: 53.74 µg/ml



#27 naphthalene #2

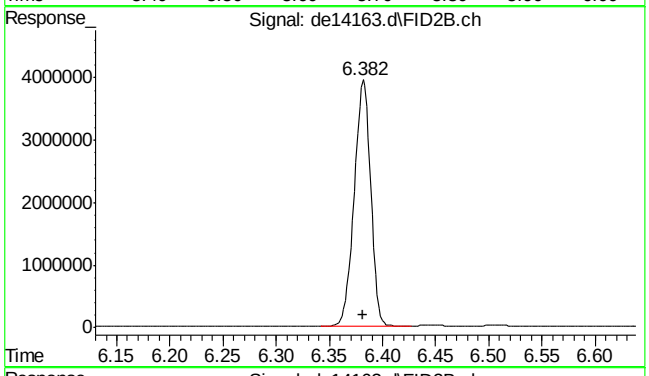
R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4238041
Conc: 53.06 µg/ml

SGS ACCUTEST MC45897



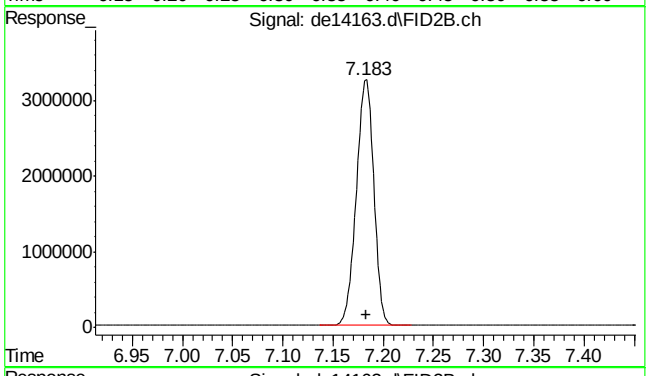
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 3936027
Conc: 53.28 µg/ml



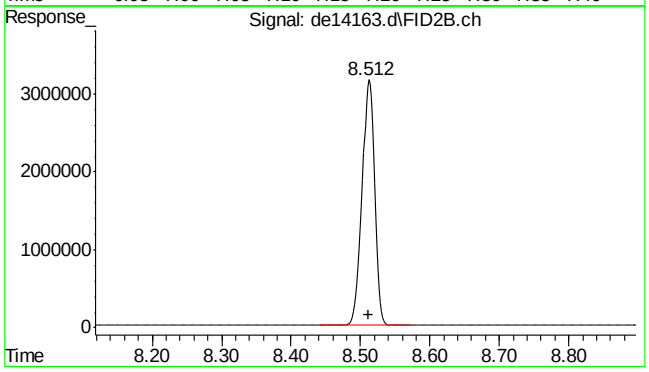
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: 0.000 min
Response: 4231454
Conc: 52.52 µg/ml



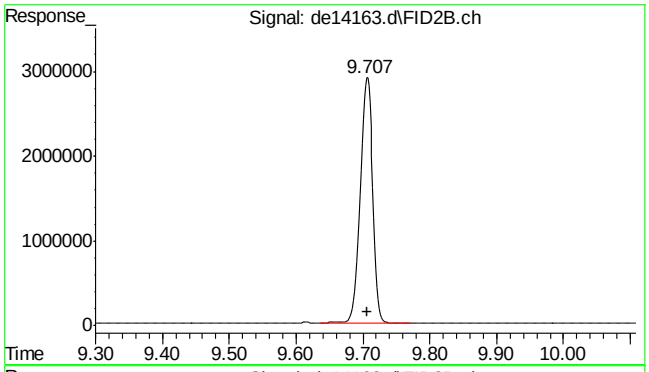
#30 c-14

R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 3916093
Conc: 53.01 µg/ml



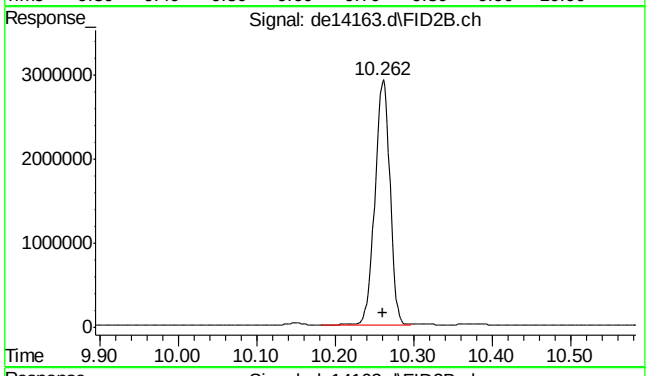
#31 c-16

R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 3890629
Conc: 52.67 µg/ml



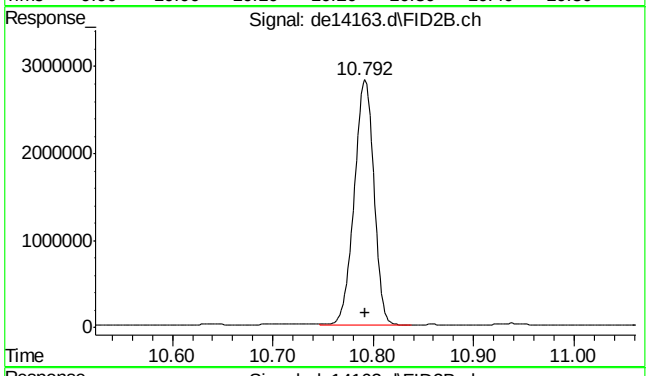
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3907027
Conc: 52.89 µg/ml



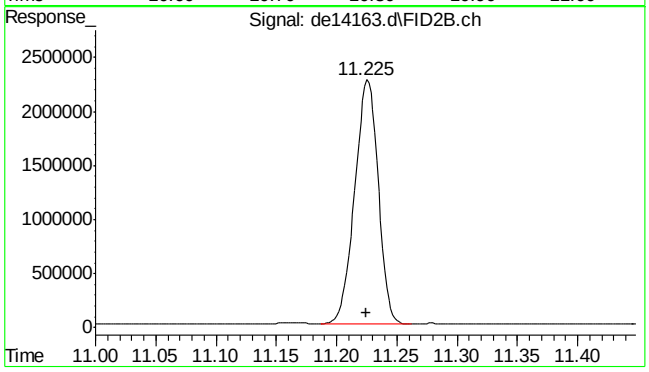
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 3873129
Conc: 57.98 µg/ml



#34 c-20

R.T.: 10.792 min
Delta R.T.: 0.000 min
Response: 3805939
Conc: 56.97 µg/ml



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: 0.000 min
Response: 3072971
Conc: 54.32 µg/ml

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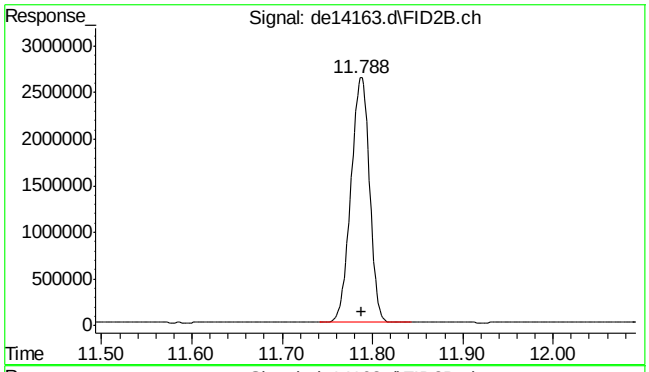
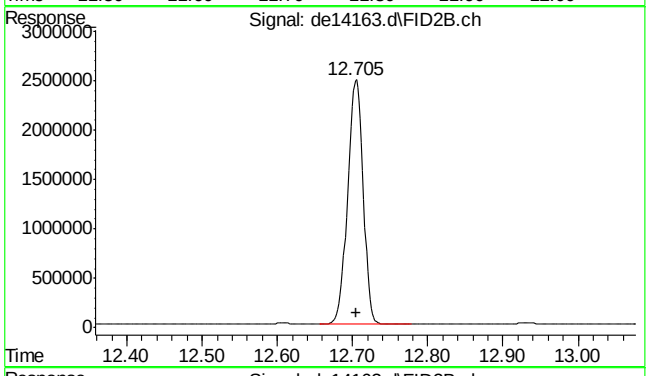


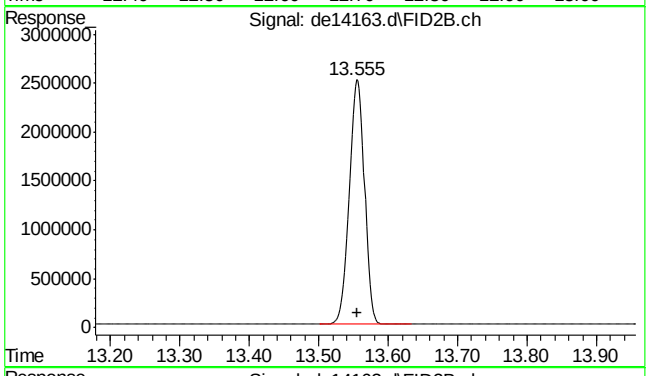
#36 c-22

R.T.: 11.788 min
Delta R.T.: 0.000 min
Response: 3783106
Conc: 56.63 µg/ml



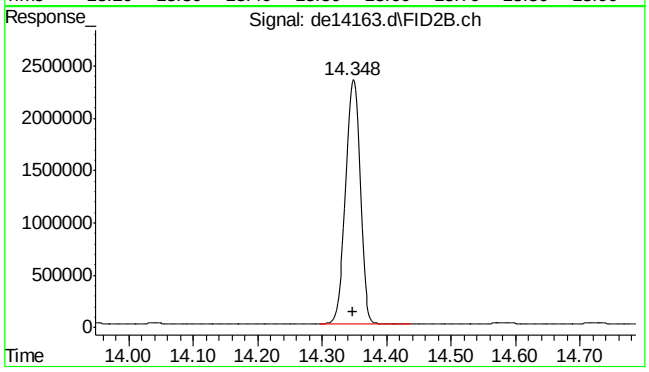
#37 c-24

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 3543501
Conc: 53.04 µg/ml



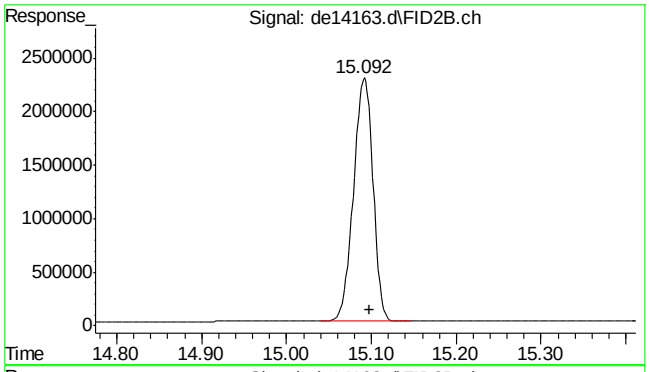
#38 c-26

R.T.: 13.555 min
Delta R.T.: 0.000 min
Response: 3766774
Conc: 56.38 µg/ml



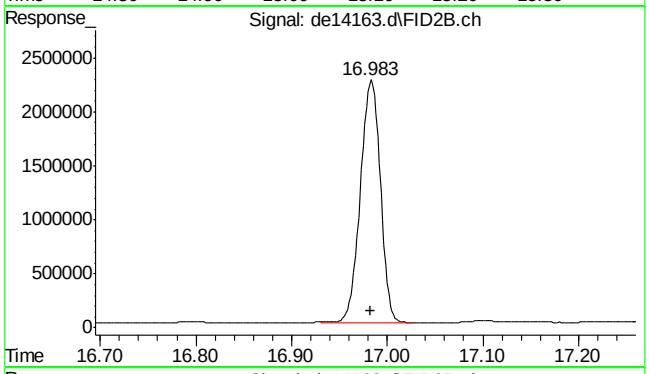
#39 c-28

R.T.: 14.348 min
Delta R.T.: 0.000 min
Response: 3641482
Conc: 54.51 µg/ml



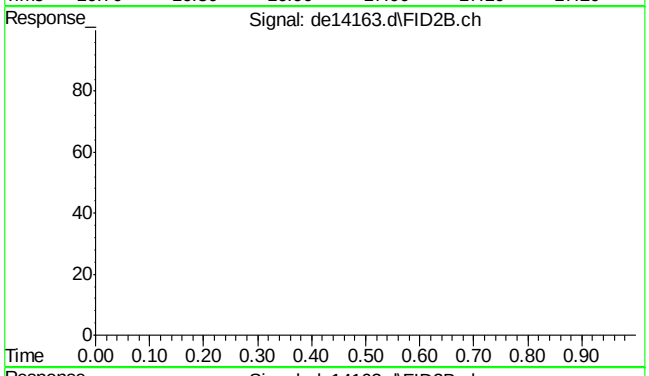
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3616898
Conc: 54.14 µg/ml m



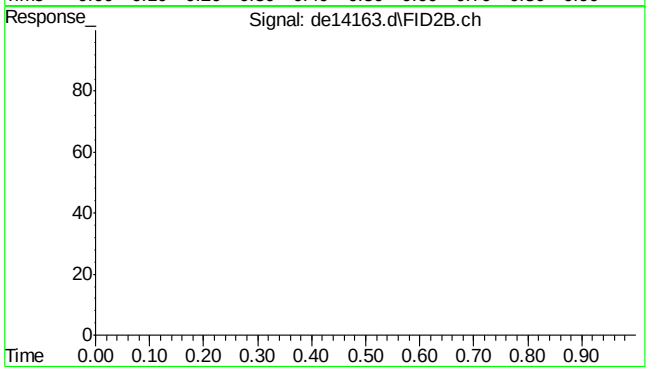
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3260454
Conc: 48.80 µg/ml m



#42 bht

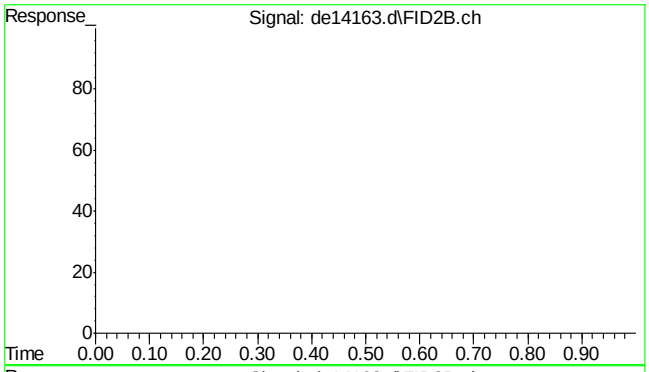
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

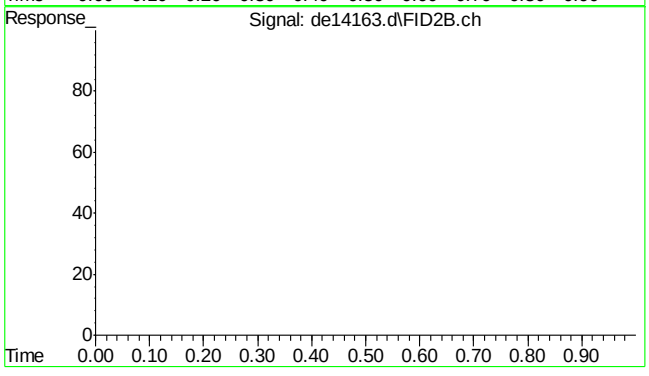
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45897



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

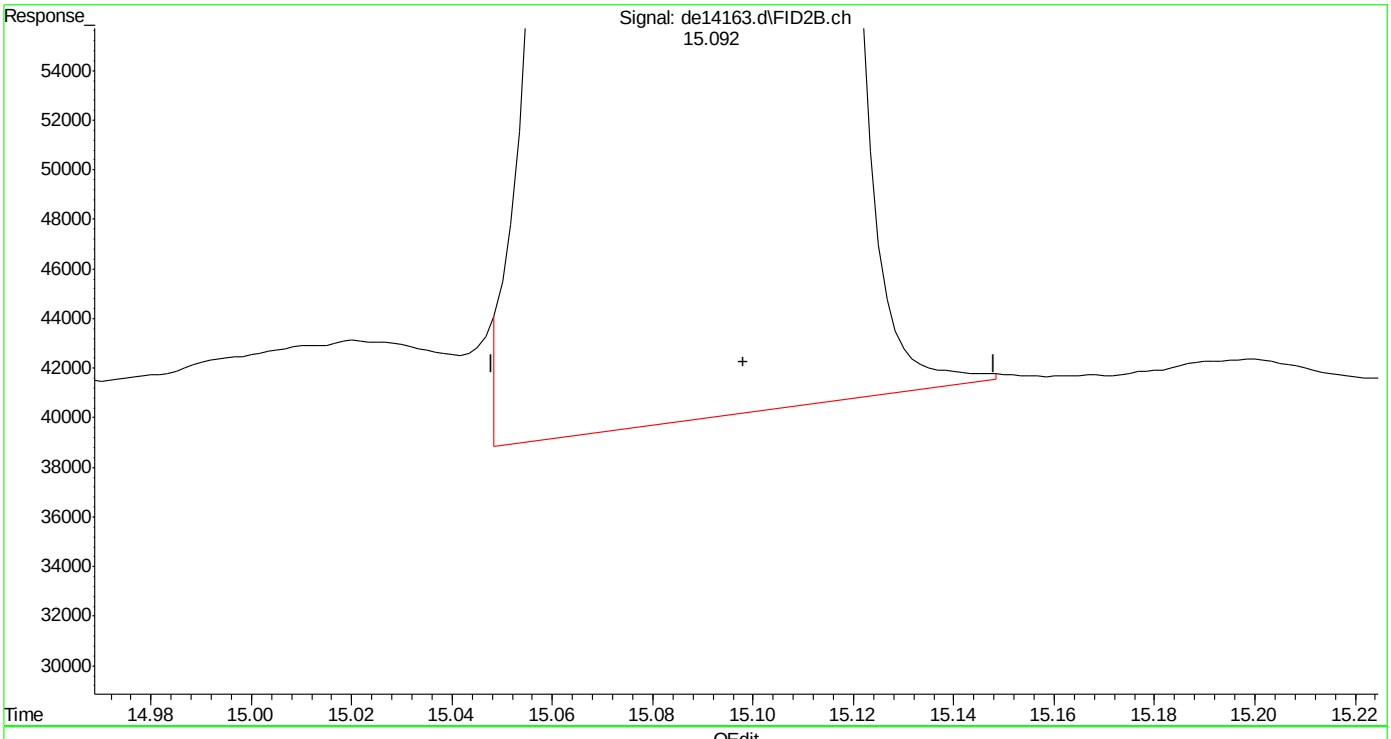
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op474298,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 14:14:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.098min 54.277 µg/ml
response 3626062

(+) = Expected Retention Time

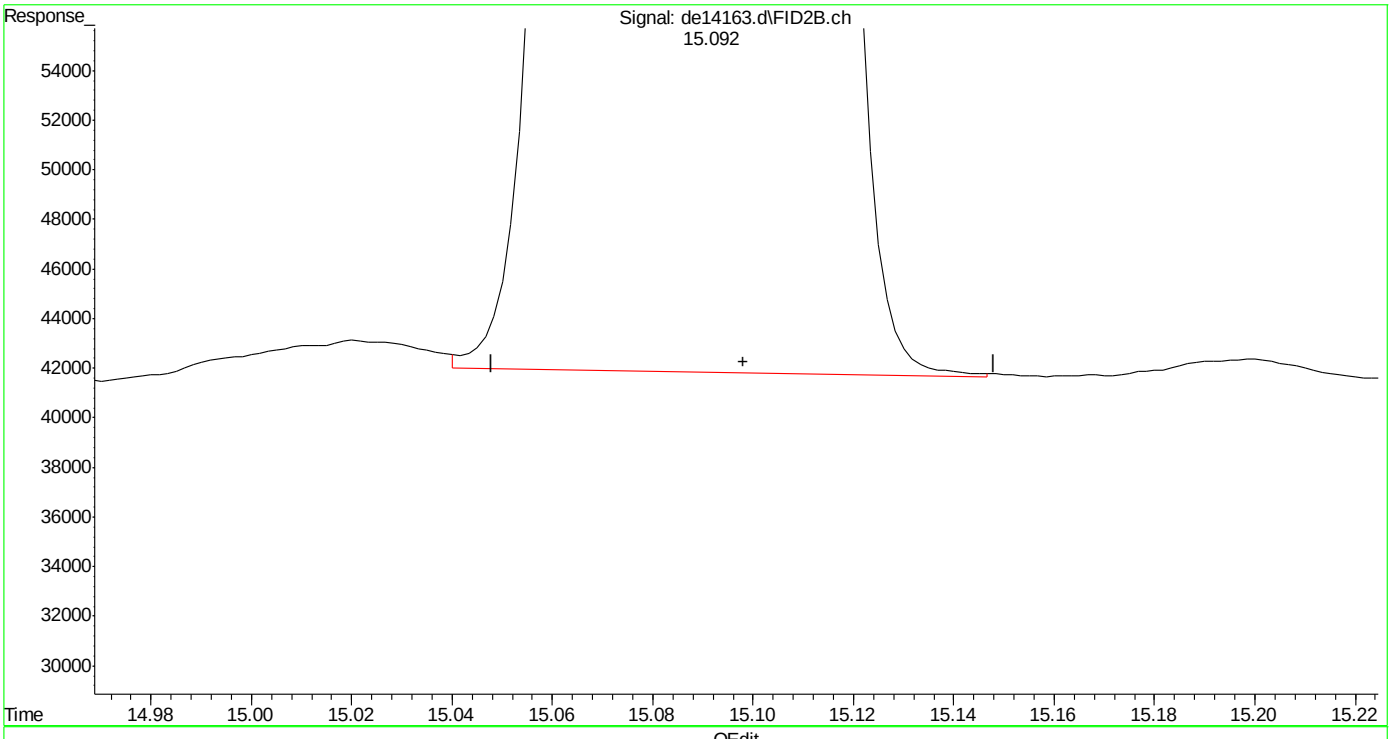
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op474298,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 14:14:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.098min 54.140 µg/ml m
response 3616898

(+) = Expected Retention Time

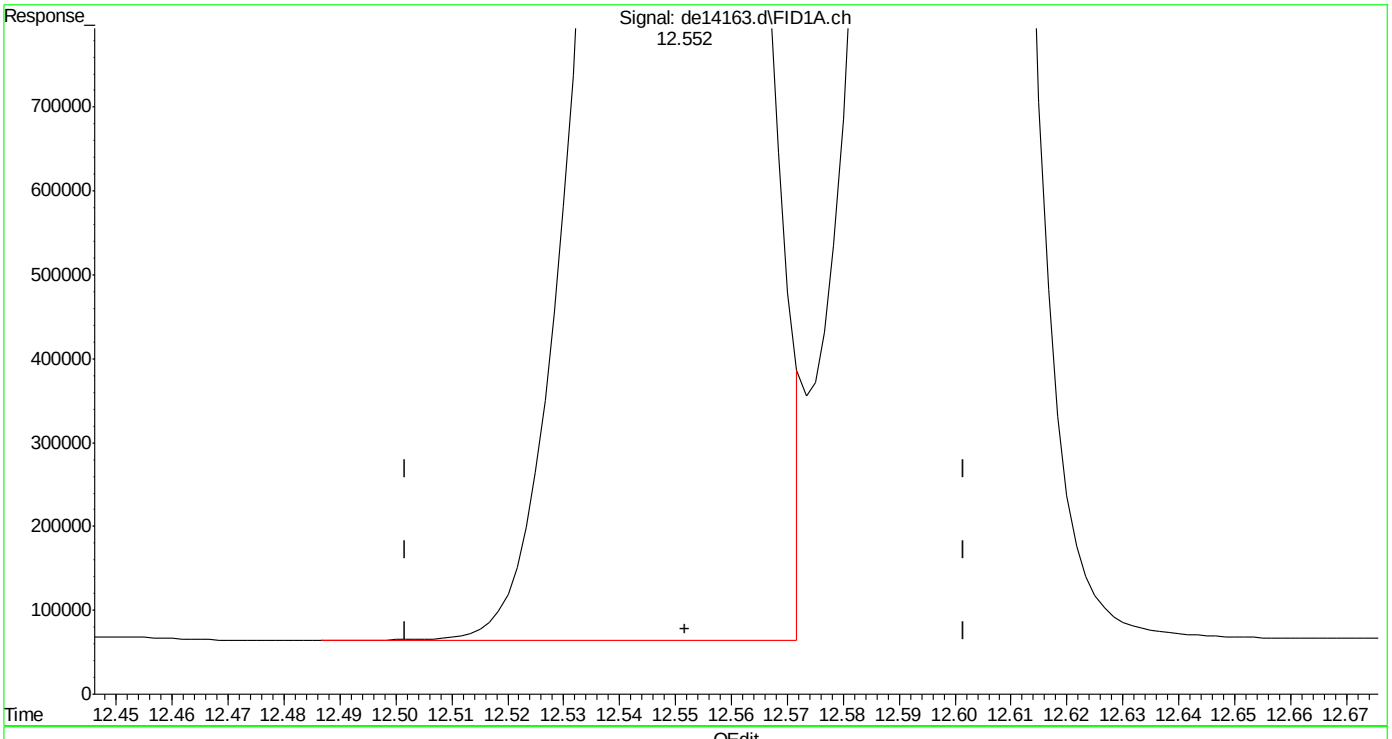
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 14:15:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.552min 53.433 µg/ml
response 5165586

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:33:32 2016

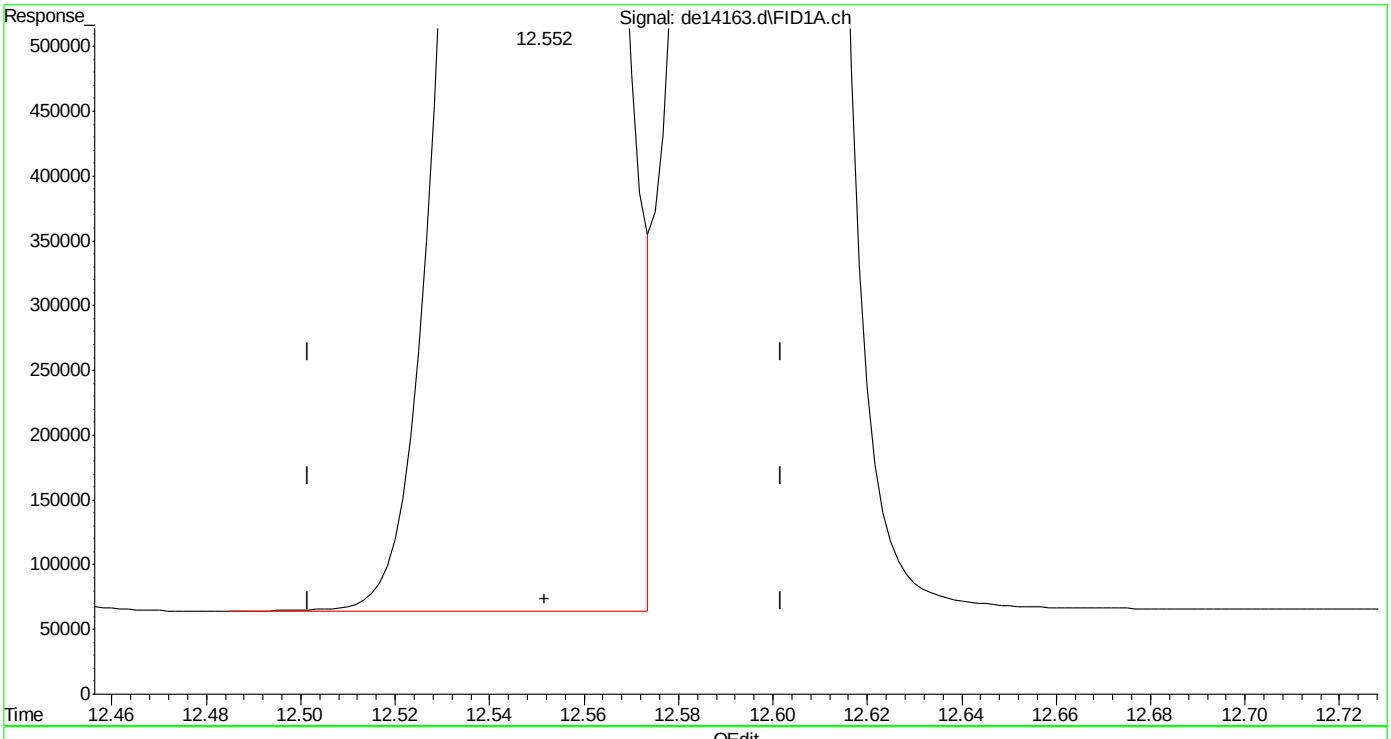
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 14:15:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.552min 53.749 µg/ml m
response 5196175

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:33:44 2016

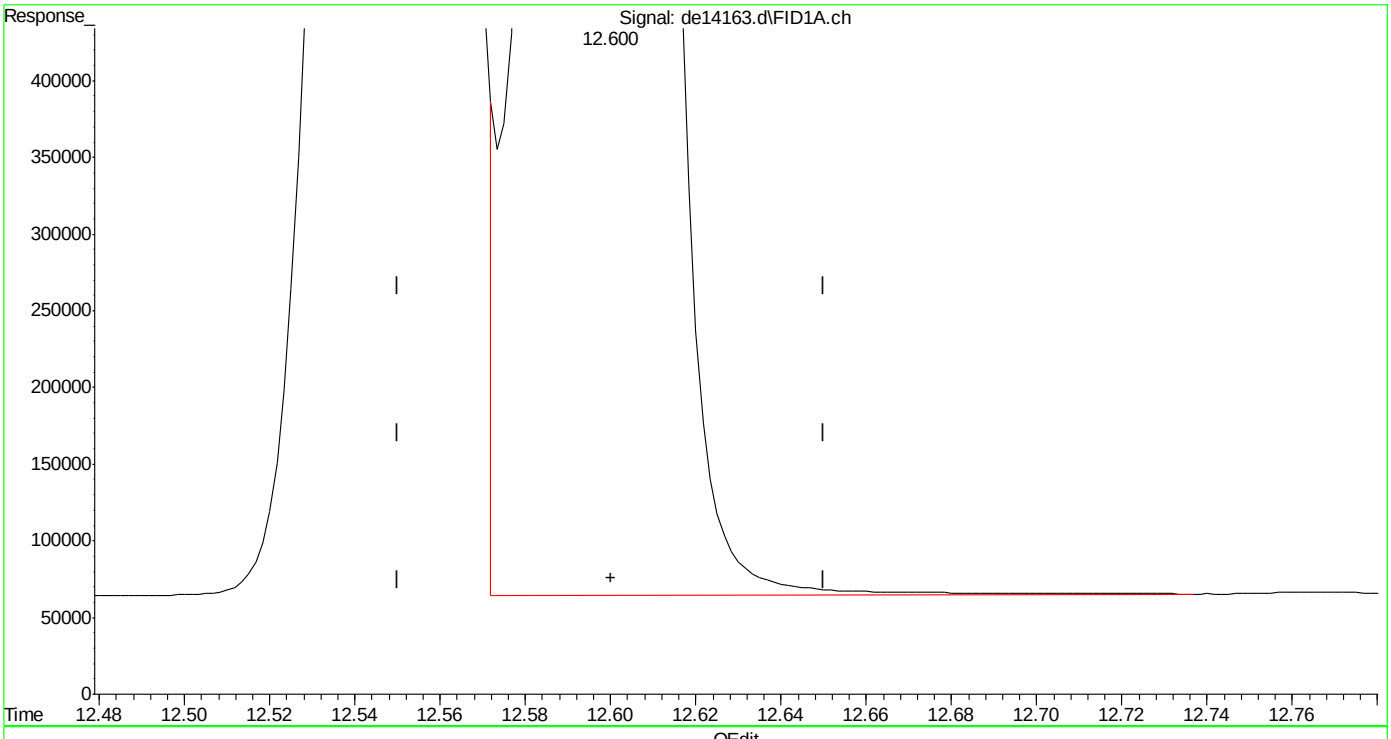
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 14:15:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.600min 54.215 µg/ml
response 5277325

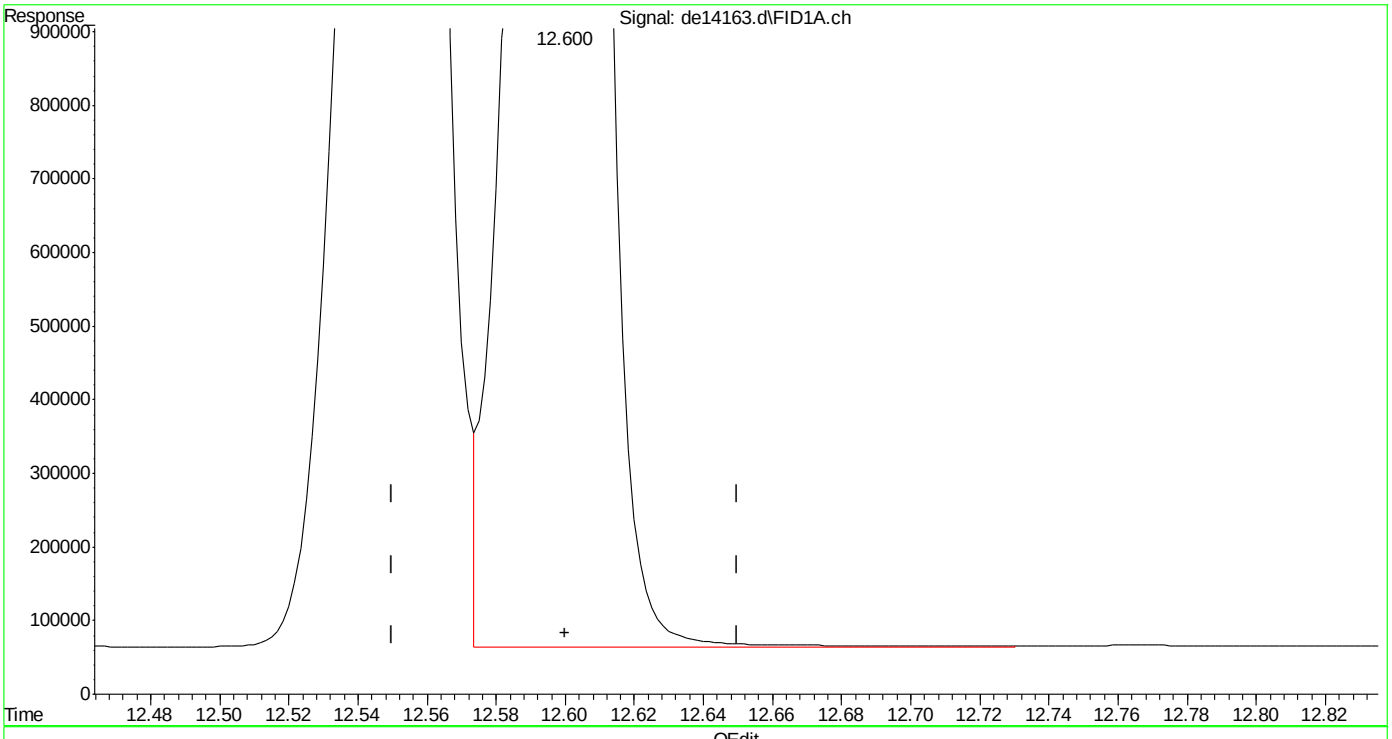
(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:33:54 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 14:15:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.600min 53.998 µg/ml m
response 5256229

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:34:05 2016

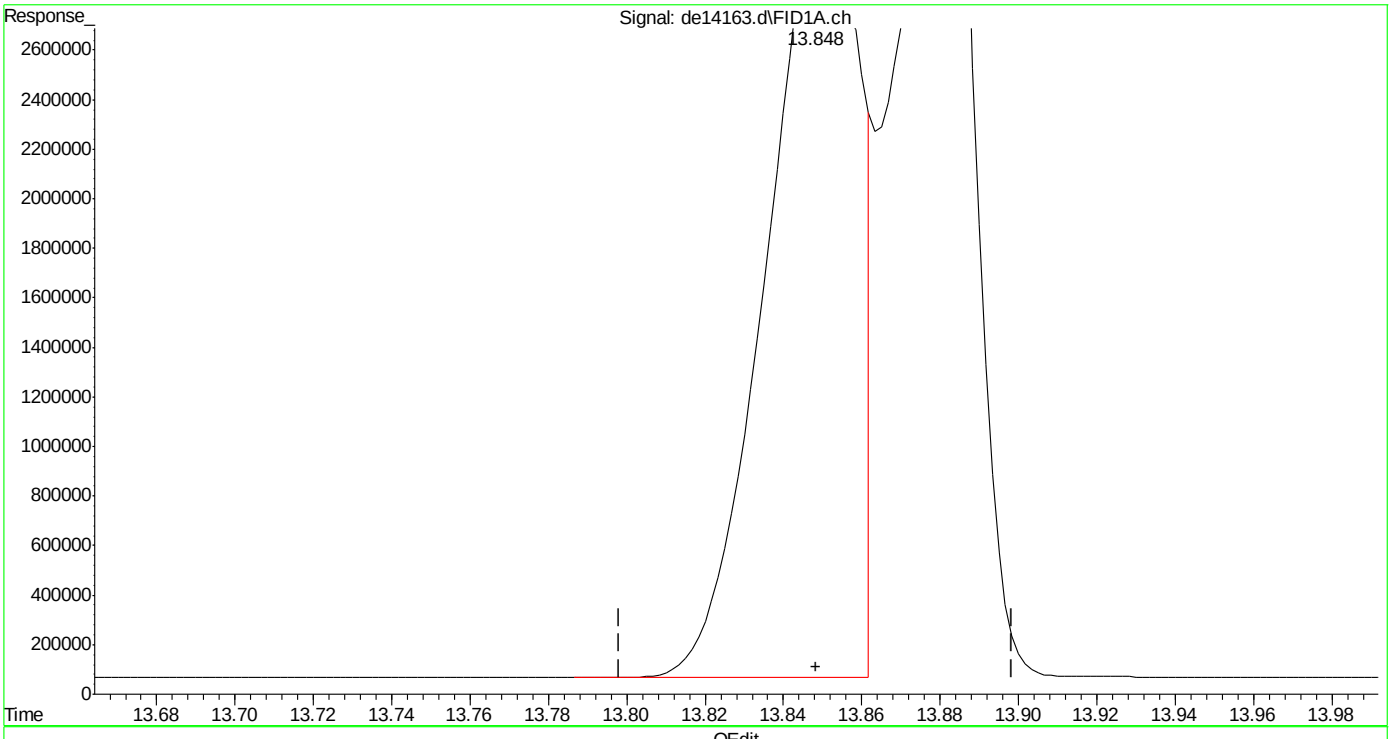
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 14:15:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
13.848min 51.627 µg/ml
response 5111225

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:34:09 2016

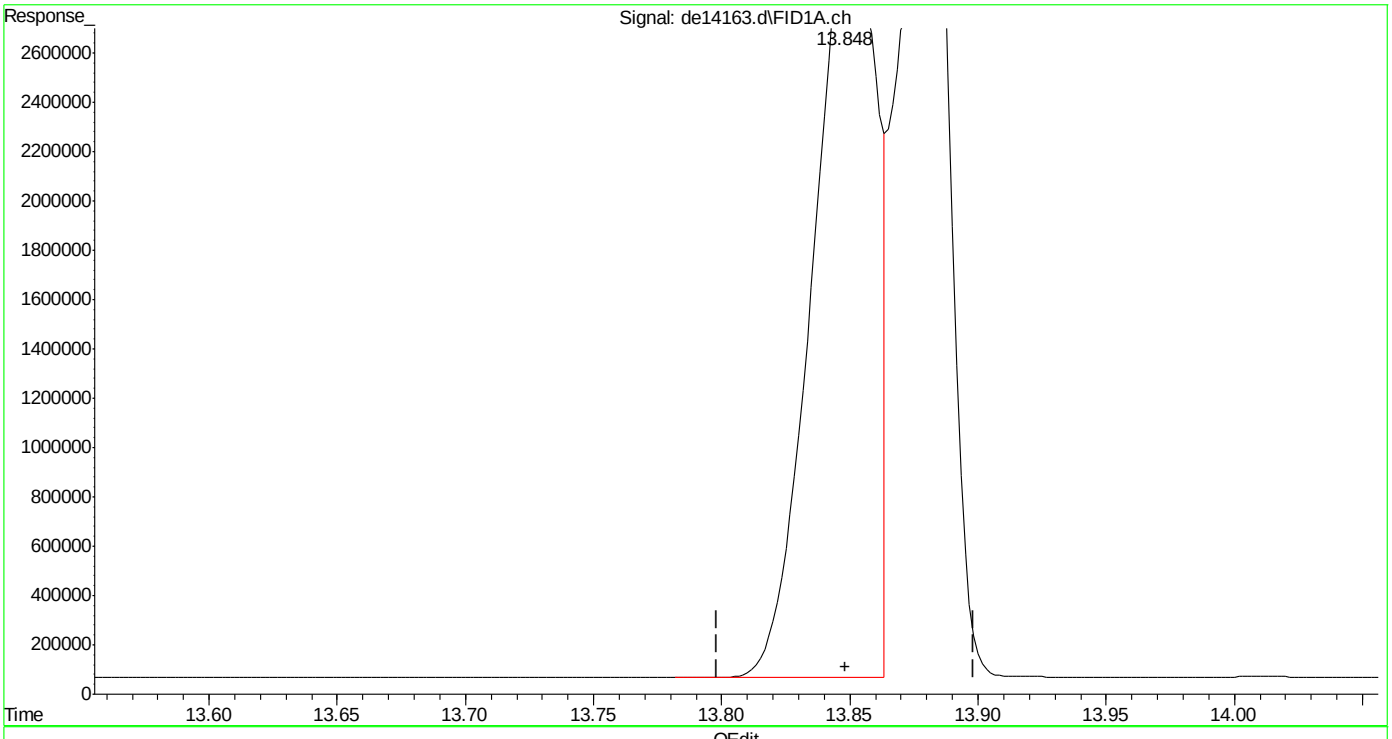
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 14:15:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
13.848min 53.868 µg/ml m
response 5333106

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:34:23 2016

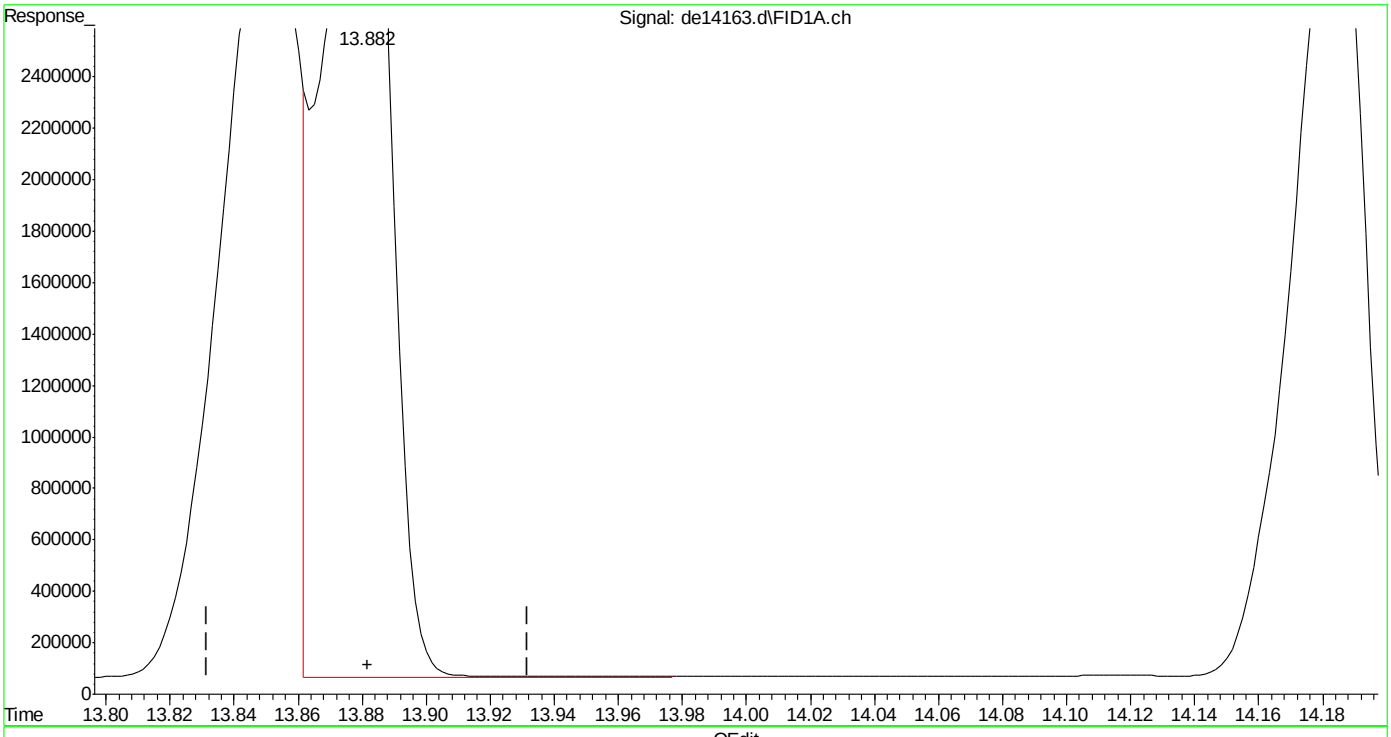
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 14:15:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
13.882min 57.332 µg/ml
response 5417982

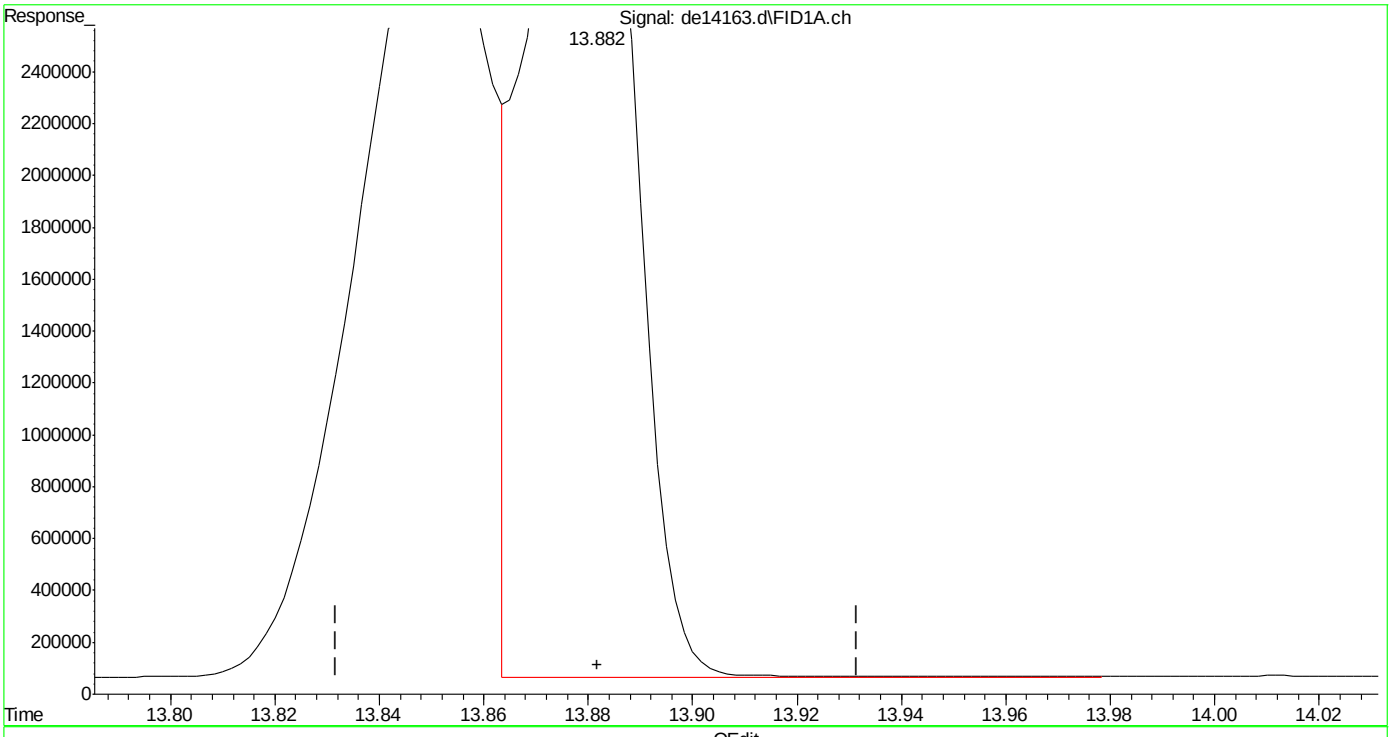
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14163.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 1:37 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 19 14:15:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
13.882min 55.019 µg/ml m
response 5199462

(+) = Expected Retention Time

EPH160519W.M Fri May 20 13:34:57 2016

SGS ACCUTEST MC45897

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/20/16 15:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14174.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 7:18 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:33:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.607	5208881	56.477 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 282.38%#	
6) s 2-bromonaphthalene	7.333	3491317	55.634 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 278.17%#	
11) s o-terphenyl	9.873	5746752	56.106 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 280.53%#	
35) s 1-chlorooctadecane	11.227	3044112	53.807 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 269.04%#	
Target Compounds			
2) naphthalene	5.152	5850151	56.720 µg/ml
3) 2-methylnaphthalene	6.053	5802078	56.616 µg/ml
5) acenaphthylene	7.165	5738922	57.046 µg/ml
7) acenaphthene	7.408	5905184	57.123 µg/ml
8) fluorene	8.052	5801444	57.119 µg/ml
9) phenanthrene	9.232	5730991	56.317 µg/ml
10) anthracene	9.290	5518511	56.887 µg/ml
12) fluoranthene	10.735	5560561	55.638 µg/ml
13) pyrene	10.992	5682710	56.008 µg/ml
14) benzo(a)anthracene	12.553	5234581	54.146 µg/ml
15) chrysene	12.602	5240184	53.833 µg/ml
16) benzo(B)fluoranthene	13.852	5176952	52.291 µg/mlm
17) benzo(k)fluoranthene	13.882	5059727	53.541 µg/mlm
18) benzo(a)pyrene	14.185	4961889	53.679 µg/ml
19) indeno(1,2,3-cd)pyrene	15.323	5083497	53.704 µg/ml
20) dibenzo(ah)anthracene	15.368	4938441	54.032 µg/ml
21) benzo(ghi)perylene	15.548	4969930	53.949 µg/ml
25) h c-9	2.647	3925109	53.134 µg/mlm
26) h c-10	3.815	3960772	53.617 µg/ml
27) naphthalene #2	5.488	4219919	52.833 µg/ml
28) c-12	5.665	3931512	53.220 µg/ml
29) 2-methylnaphthalene #2	6.383	4214019	52.305 µg/ml
30) c-14	7.183	3902373	52.826 µg/ml
31) c-16	8.513	3872003	52.415 µg/ml
32) c-18	9.707	3867183	52.350 µg/ml
33) c-19	10.262	3839754	57.476 µg/ml
34) c-20	10.793	3765407	56.363 µg/ml
36) c-22	11.788	3738756	55.964 µg/ml
37) c-24	12.707	3489883	52.239 µg/ml
38) c-26	13.557	3704606	55.453 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14174.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 7:18 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:33:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc Units
39)	c-28	14.350	3574638	53.507 µg/ml
40) h	c-30	15.098	3564058	53.349 µg/ml
41) h	c-36	16.983	3220467	48.206 µg/mlm

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

9.5.10

9

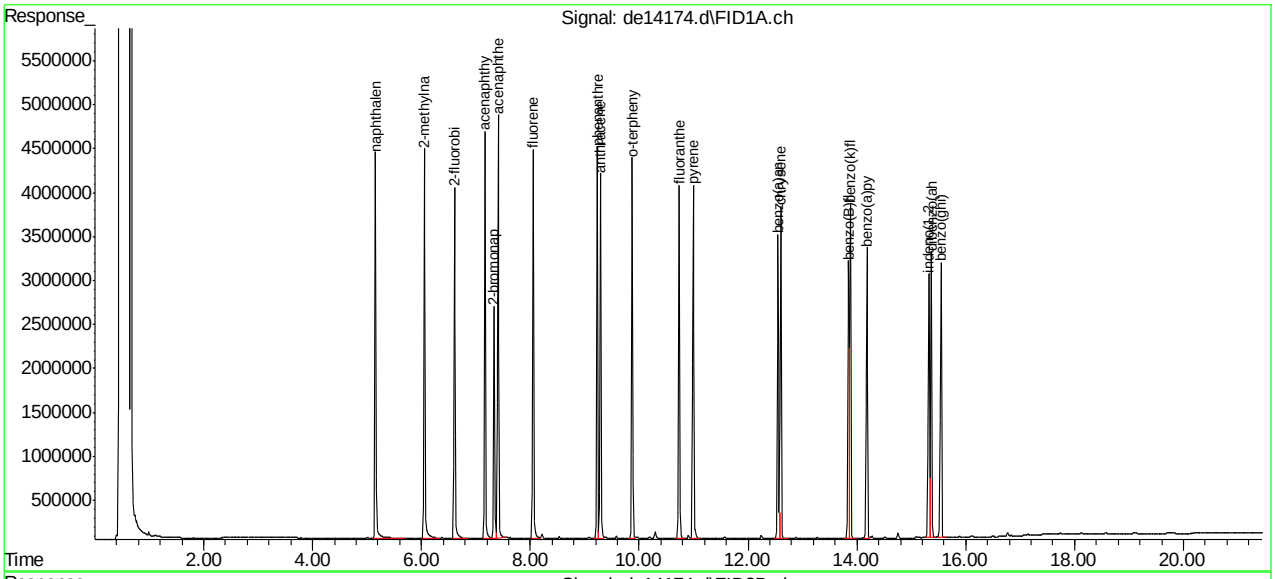
SGS ACCUTEST MC45897

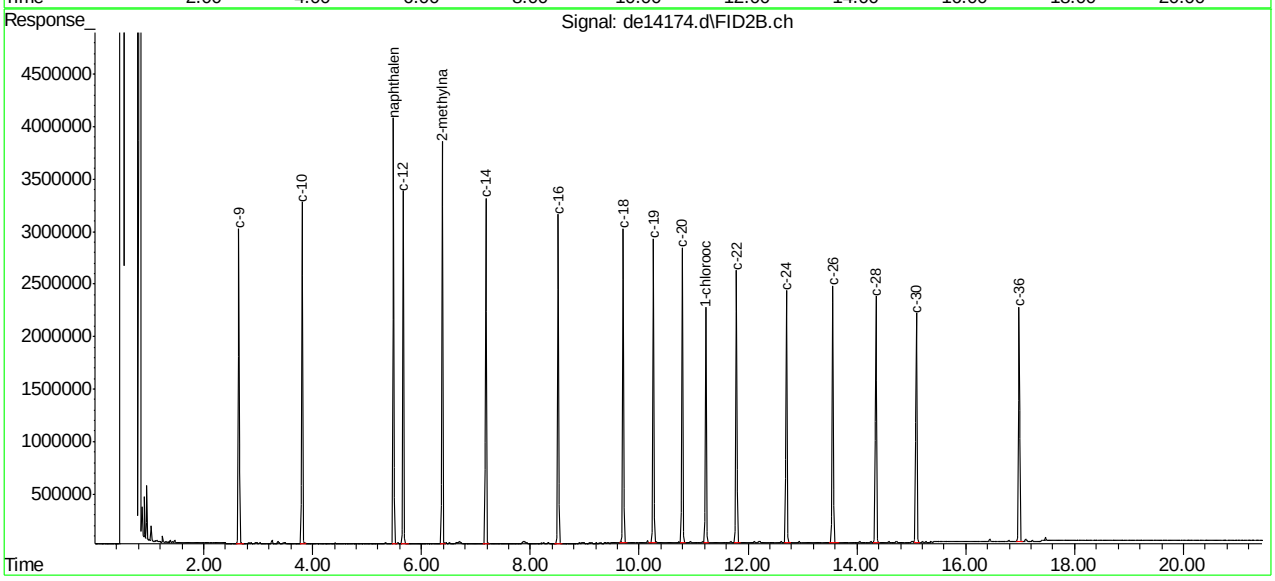
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14174.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 7:18 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

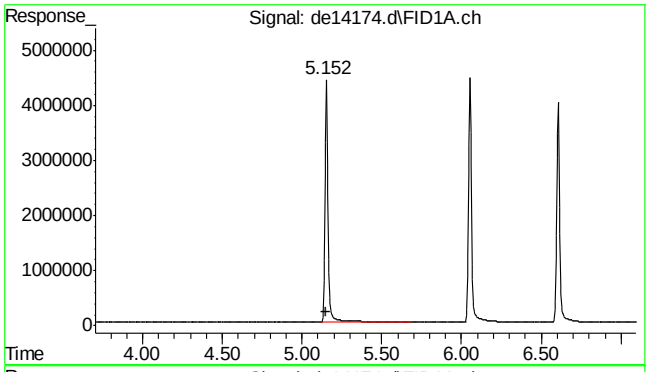
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:33:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



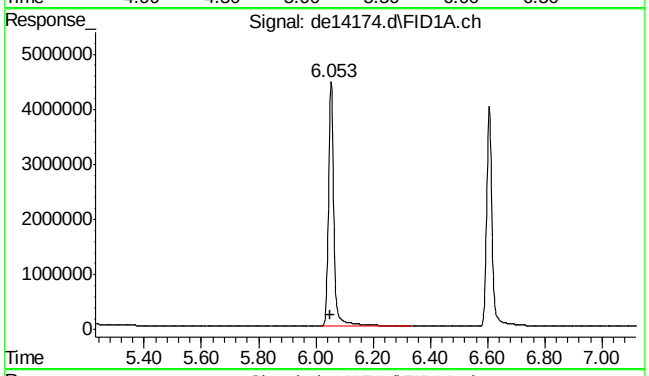


EPH160519W.M Fri May 20 14:44:18 2016 Page: 3



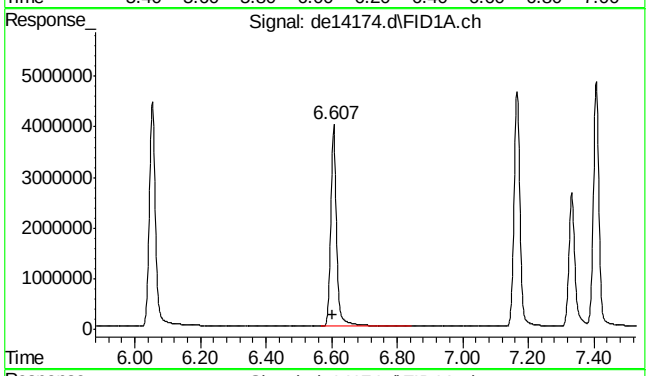
#2 naphthalene

R.T.: 5.152 min
Delta R.T.: 0.002 min
Response: 5850151
Conc: 56.72 µg/ml



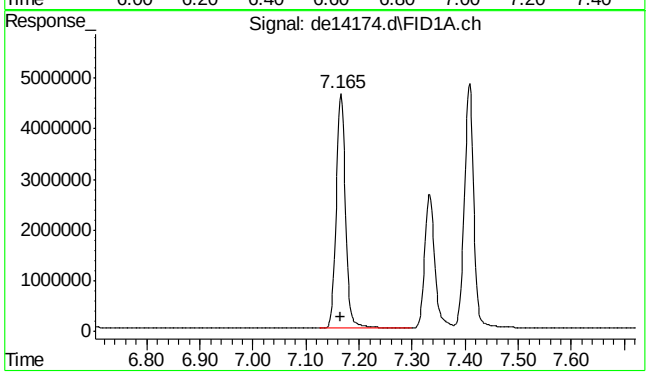
#3 2-methylnaphthalene

R.T.: 6.053 min
Delta R.T.: 0.003 min
Response: 5802078
Conc: 56.62 µg/ml



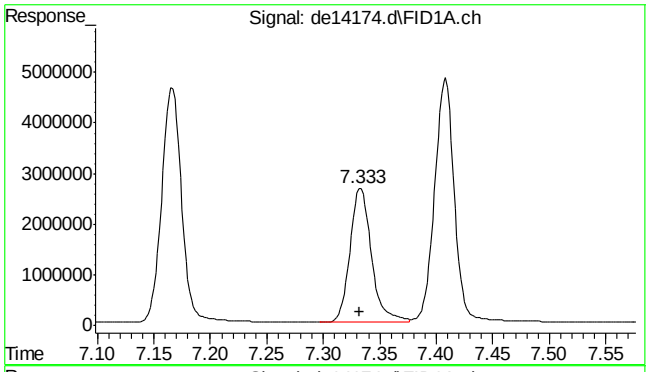
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.003 min
Response: 5208881
Conc: 56.48 µg/ml



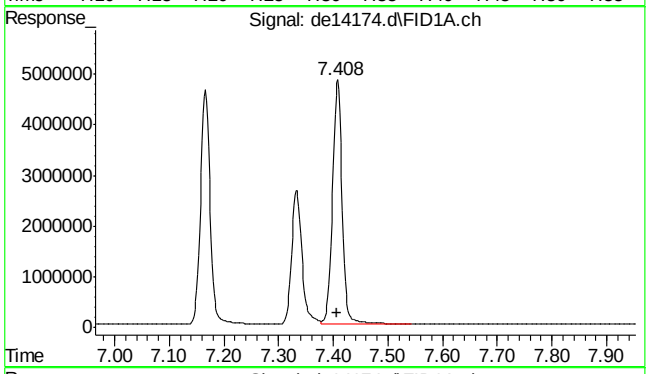
#5 acenaphthylene

R.T.: 7.165 min
Delta R.T.: 0.000 min
Response: 5738922
Conc: 57.05 µg/ml



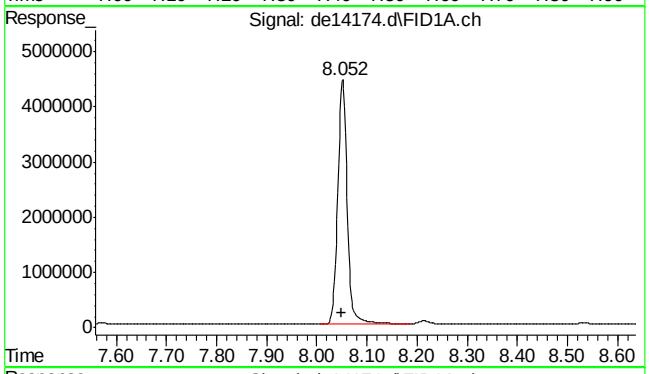
#6 2-bromonaphthalene

R.T.: 7.333 min
Delta R.T.: 0.002 min
Response: 3491317
Conc: 55.63 µg/ml



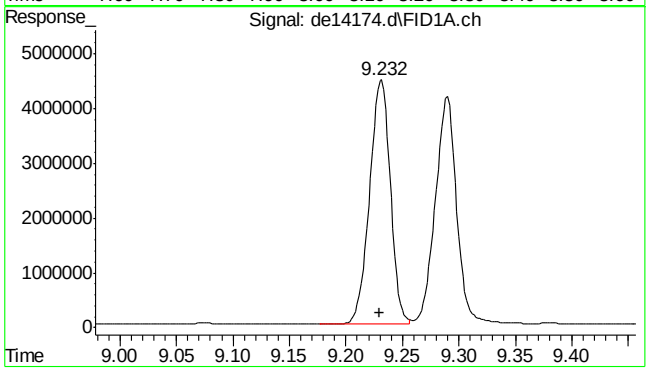
#7 acenaphthene

R.T.: 7.408 min
Delta R.T.: 0.002 min
Response: 5905184
Conc: 57.12 µg/ml



#8 fluorene

R.T.: 8.052 min
Delta R.T.: 0.002 min
Response: 5801444
Conc: 57.12 µg/ml



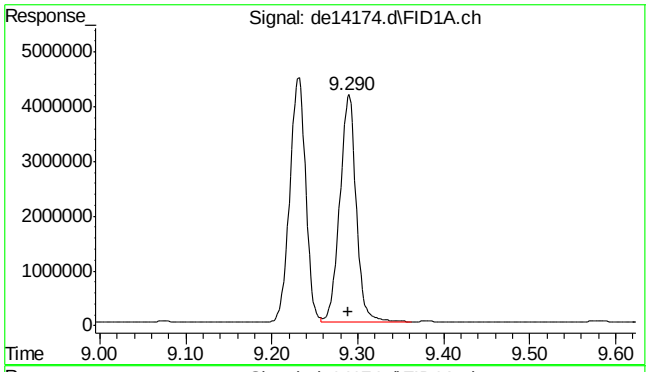
#9 phenanthrene

R.T.: 9.232 min
Delta R.T.: 0.002 min
Response: 5730991
Conc: 56.32 µg/ml

9.5.10

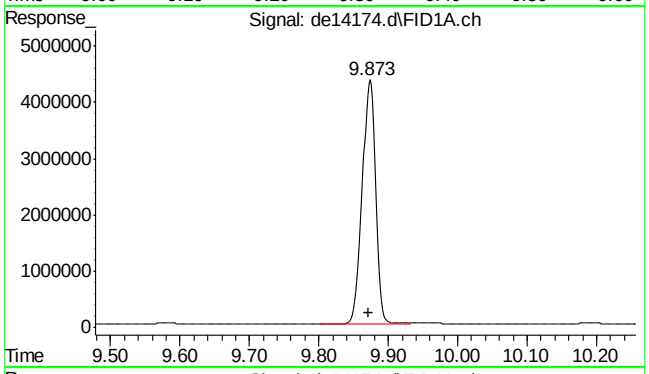
9

SGS ACCUTEST MC45897



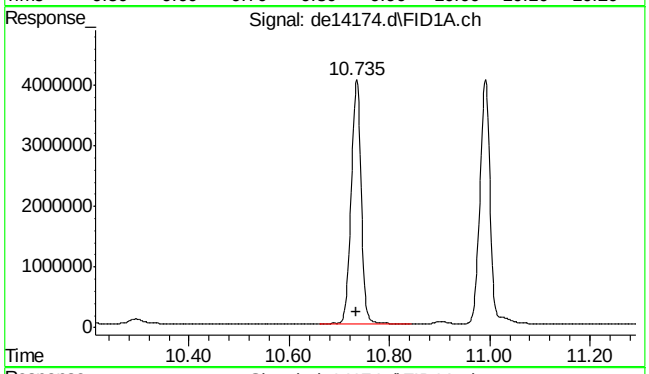
#10 anthracene

R.T.: 9.290 min
Delta R.T.: 0.002 min
Response: 5518511
Conc: 56.89 µg/ml



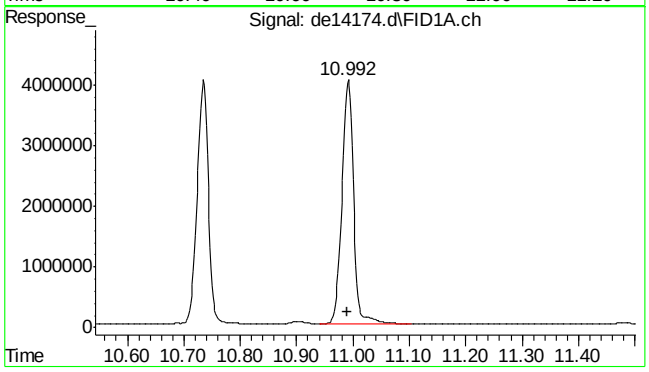
#11 o-terphenyl

R.T.: 9.873 min
Delta R.T.: 0.002 min
Response: 5746752
Conc: 56.11 µg/ml



#12 fluoranthene

R.T.: 10.735 min
Delta R.T.: 0.002 min
Response: 5560561
Conc: 55.64 µg/ml



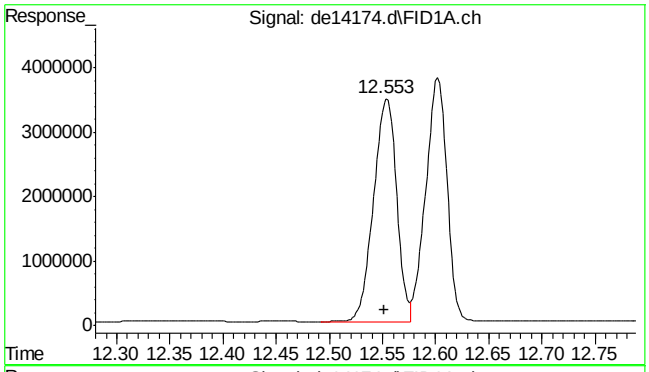
#13 pyrene

R.T.: 10.992 min
Delta R.T.: 0.002 min
Response: 5682710
Conc: 56.01 µg/ml

9.5.10

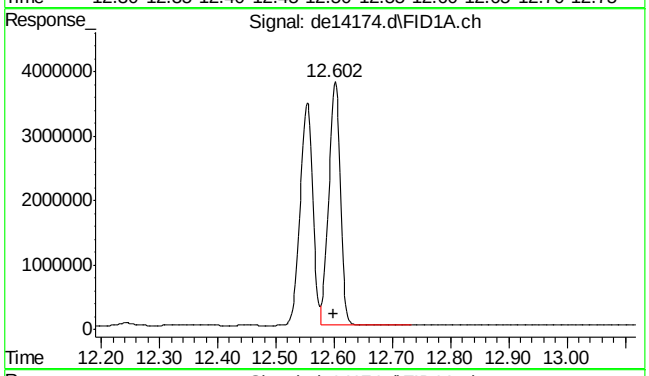
9

SGS ACCUTEST MC45897



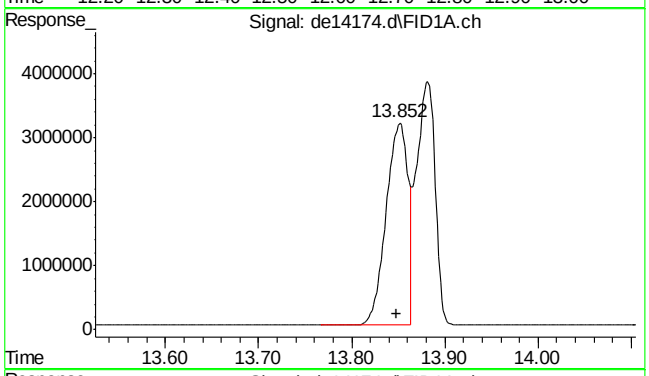
#14 benzo(a)anthracene

R.T.: 12.553 min
Delta R.T.: 0.002 min
Response: 5234581
Conc: 54.15 µg/ml



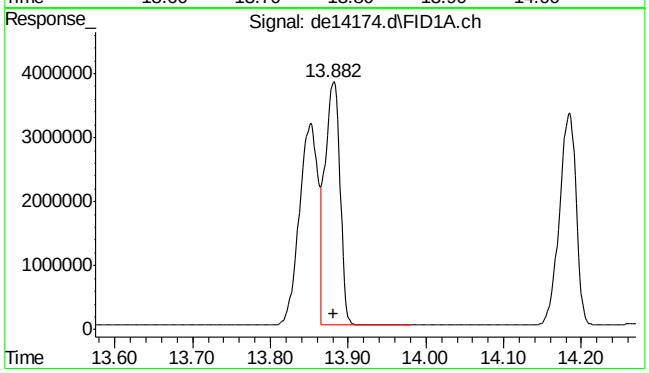
#15 chrysene

R.T.: 12.602 min
Delta R.T.: 0.002 min
Response: 5240184
Conc: 53.83 µg/ml



#16 benzo(B)fluoranthene

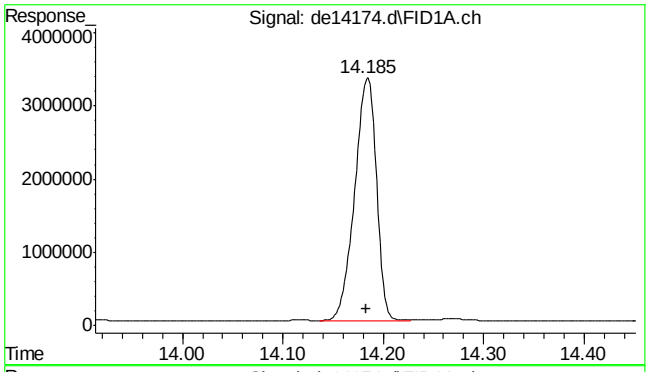
R.T.: 13.852 min
Delta R.T.: 0.003 min
Response: 5176952
Conc: 52.29 µg/ml m



#17 benzo(k)fluoranthene

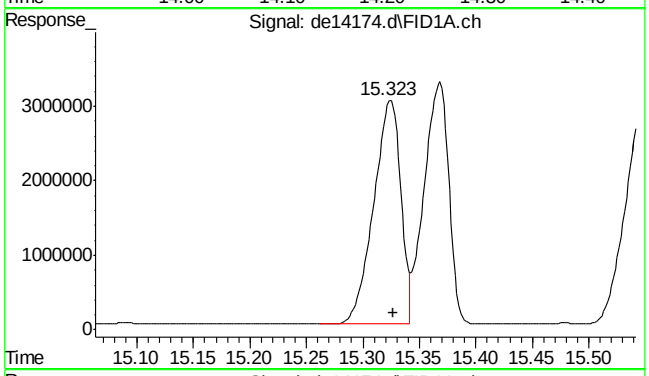
R.T.: 13.882 min
Delta R.T.: 0.000 min
Response: 5059727
Conc: 53.54 µg/ml m

SGS ACCUTEST MC45897



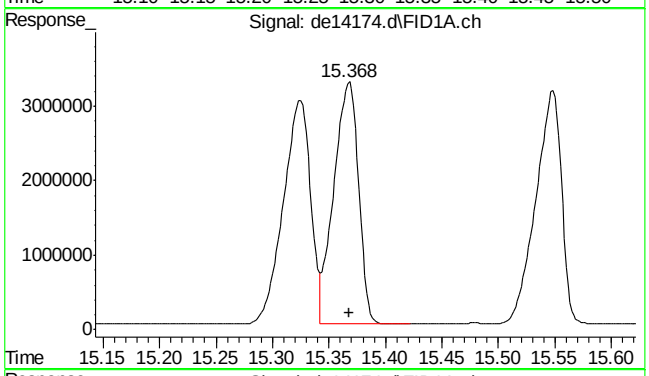
#18 benzo(a)pyrene

R.T.: 14.185 min
Delta R.T.: 0.002 min
Response: 4961889
Conc: 53.68 µg/ml



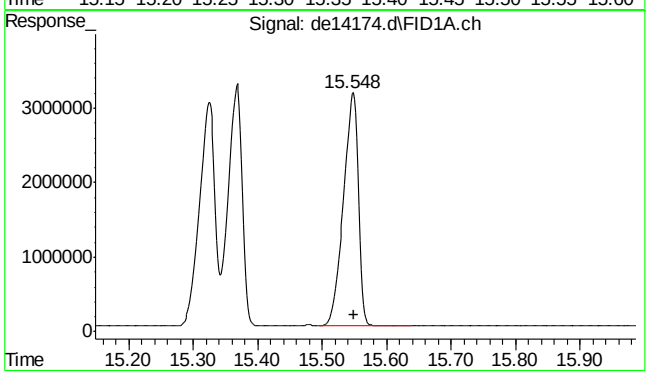
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.323 min
Delta R.T.: -0.003 min
Response: 5083497
Conc: 53.70 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.368 min
Delta R.T.: 0.000 min
Response: 4938441
Conc: 54.03 µg/ml



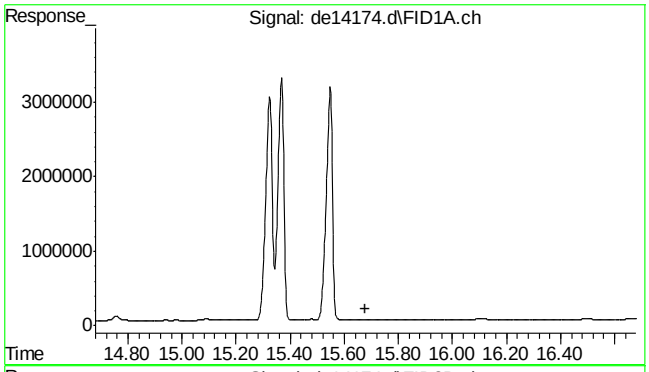
#21 benzo(ghi)perylene

R.T.: 15.548 min
Delta R.T.: -0.002 min
Response: 4969930
Conc: 53.95 µg/ml

9.5.10

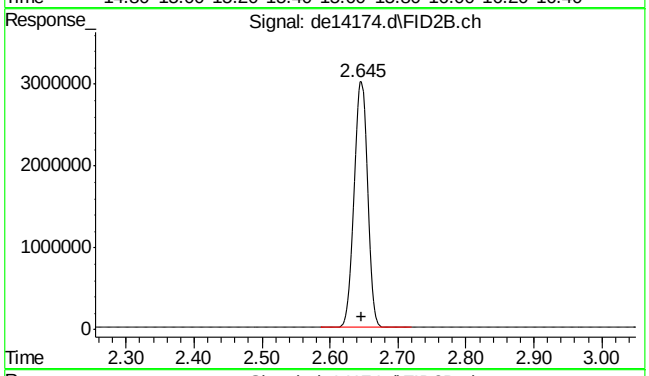
9

SGS ACCUTEST MC45897



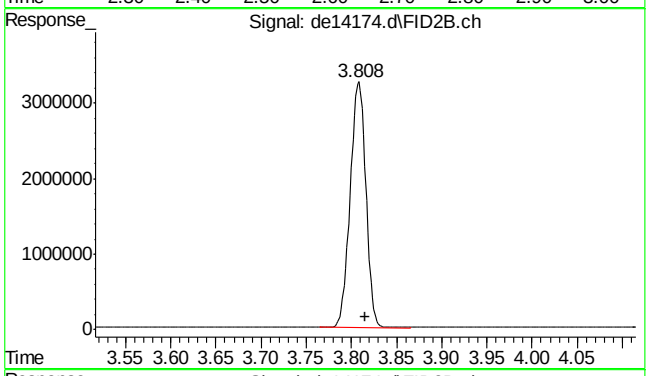
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



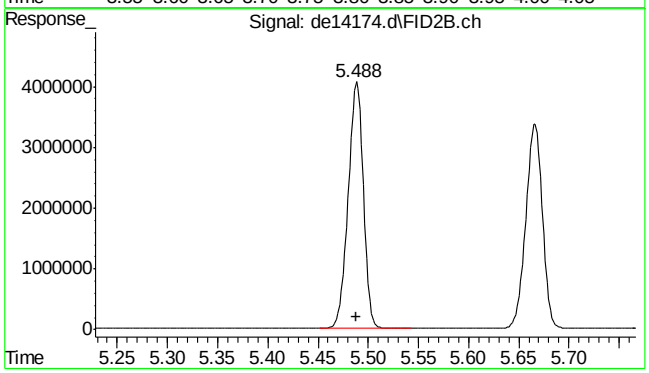
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 3925109
Conc: 53.13 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3960772
Conc: 53.62 µg/ml



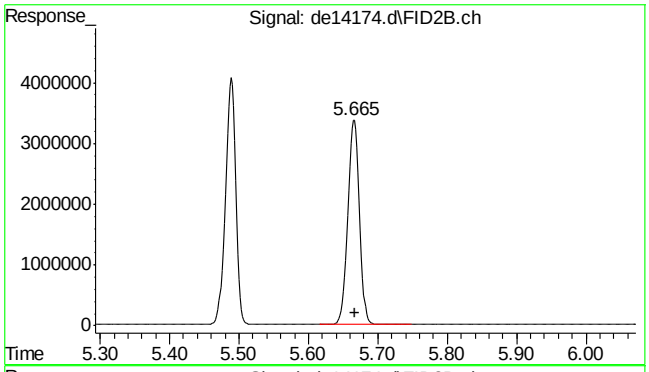
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4219919
Conc: 52.83 µg/ml

9.5.10

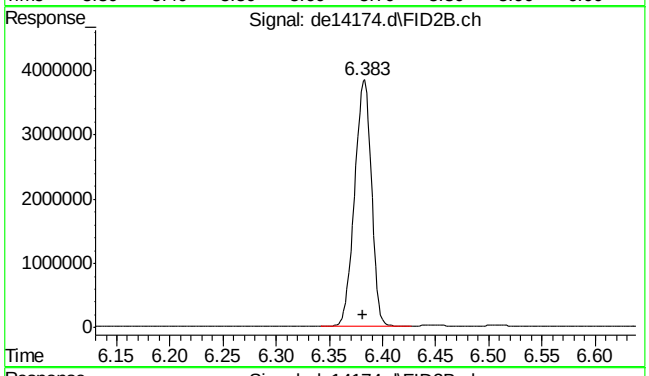
9

SGS ACCUTEST MC45897



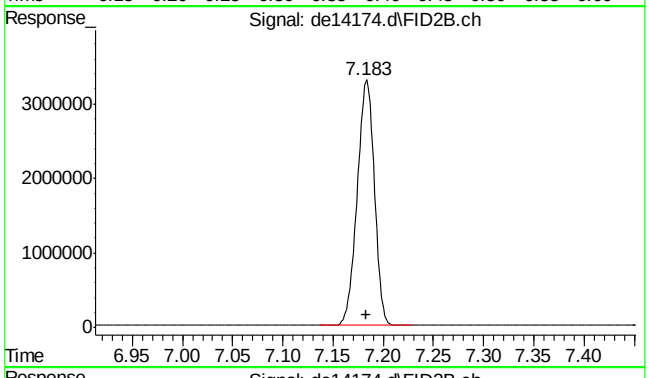
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.002 min
Response: 3931512
Conc: 53.22 µg/ml



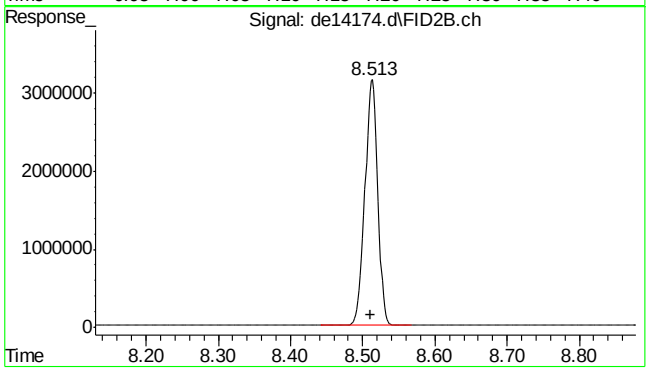
#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: 0.002 min
Response: 4214019
Conc: 52.30 µg/ml



#30 c-14

R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 3902373
Conc: 52.83 µg/ml



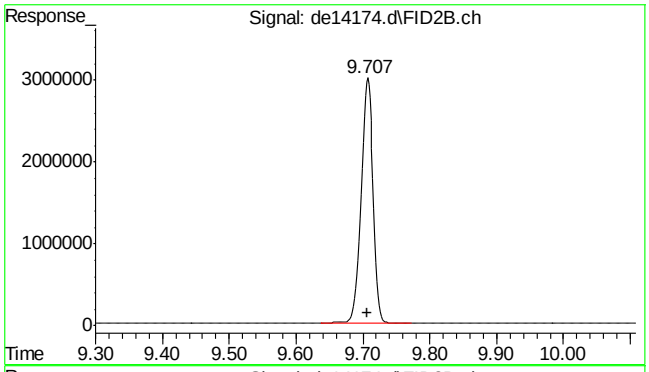
#31 c-16

R.T.: 8.513 min
Delta R.T.: 0.002 min
Response: 3872003
Conc: 52.41 µg/ml

9.5.10

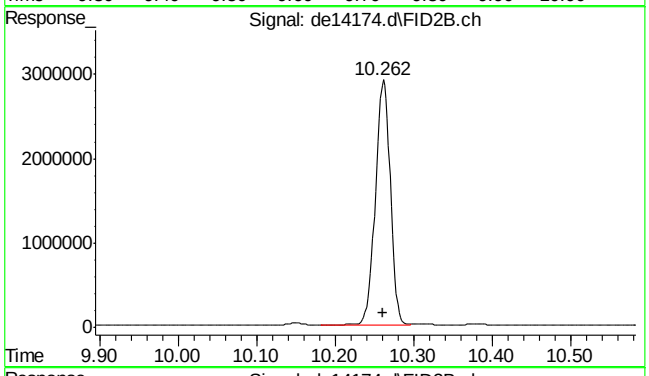
9

SGS ACCUTEST MC45897



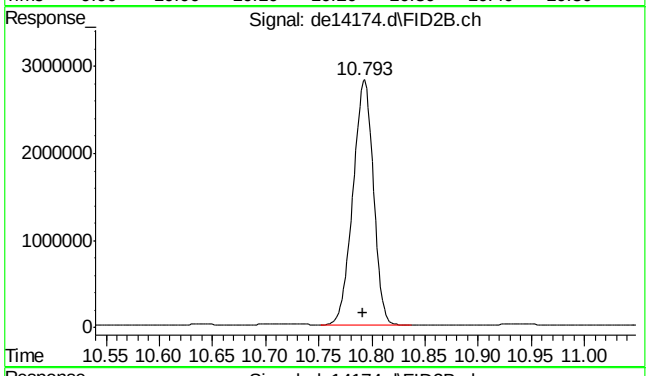
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3867183
Conc: 52.35 µg/ml



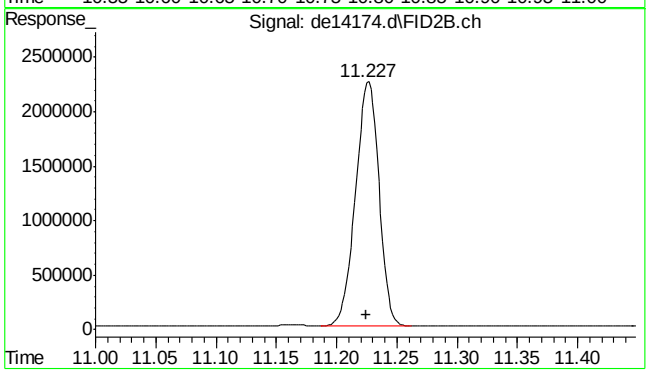
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 3839754
Conc: 57.48 µg/ml



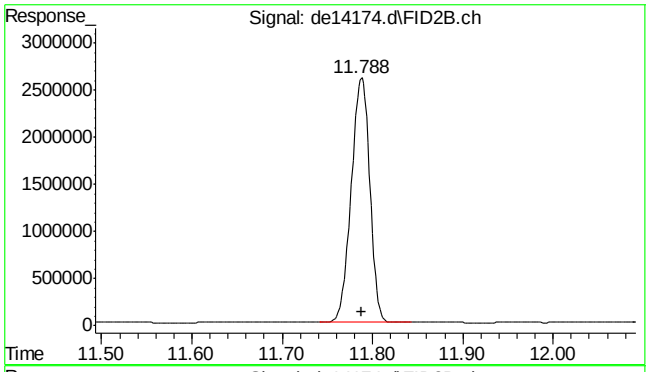
#34 c-20

R.T.: 10.793 min
Delta R.T.: 0.002 min
Response: 3765407
Conc: 56.36 µg/ml



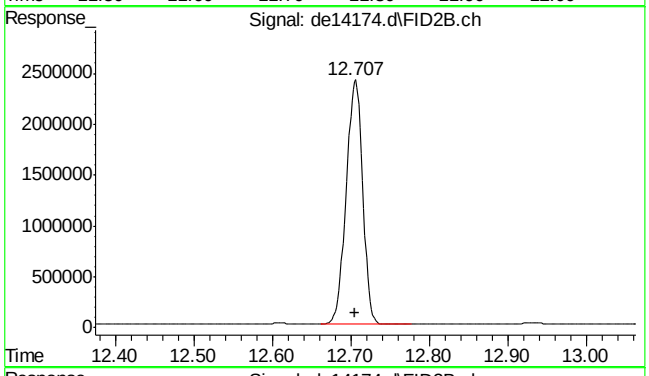
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: 0.002 min
Response: 3044112
Conc: 53.81 µg/ml



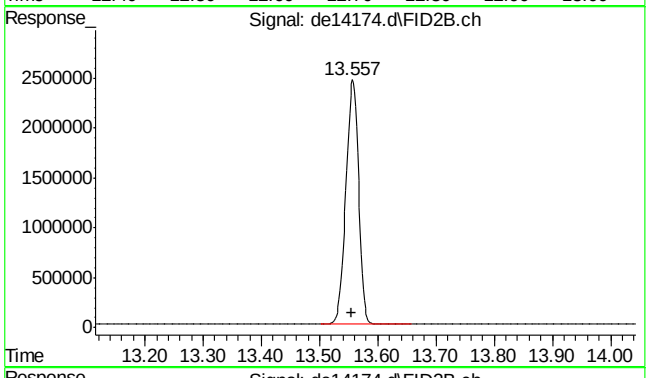
#36 c-22

R.T.: 11.788 min
Delta R.T.: 0.000 min
Response: 3738756
Conc: 55.96 µg/ml



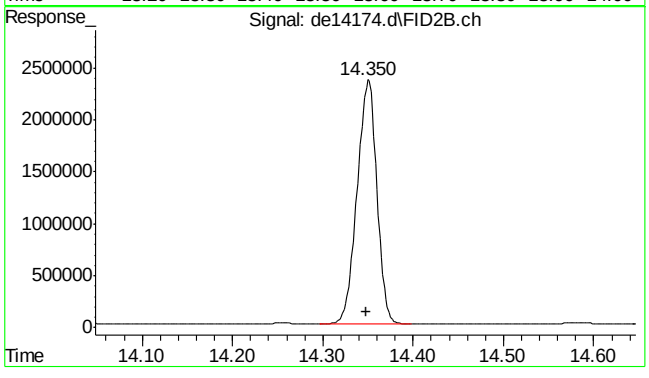
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.002 min
Response: 3489883
Conc: 52.24 µg/ml



#38 c-26

R.T.: 13.557 min
Delta R.T.: 0.002 min
Response: 3704606
Conc: 55.45 µg/ml



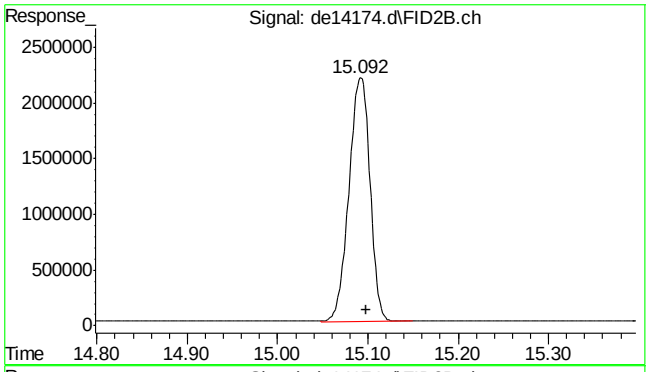
#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.002 min
Response: 3574638
Conc: 53.51 µg/ml

9.5.10

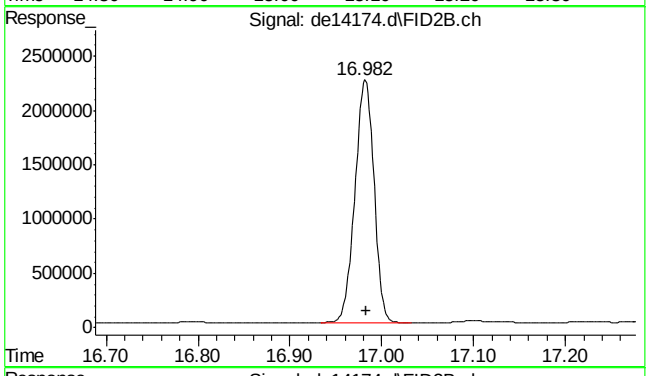
9

SGS ACCUTEST MC45897



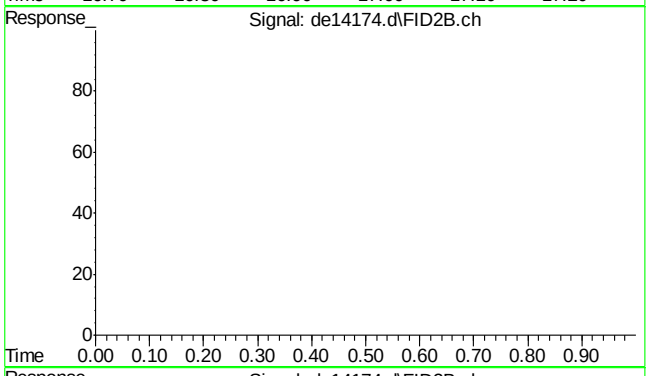
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3564058
Conc: 53.35 µg/ml



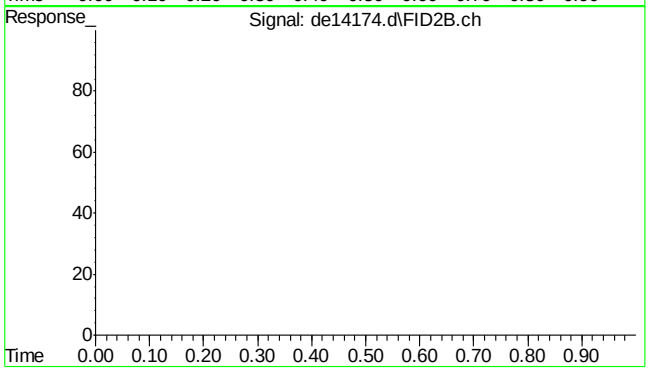
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3220467
Conc: 48.21 µg/ml m



#42 bht

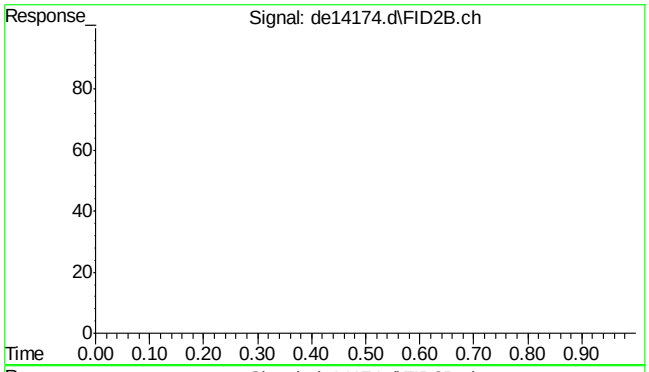
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

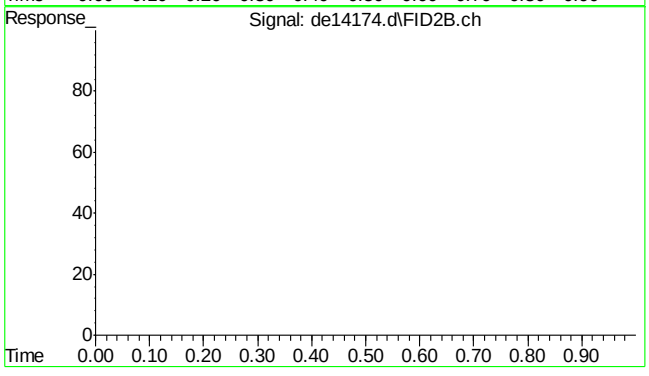
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45897



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.10

9

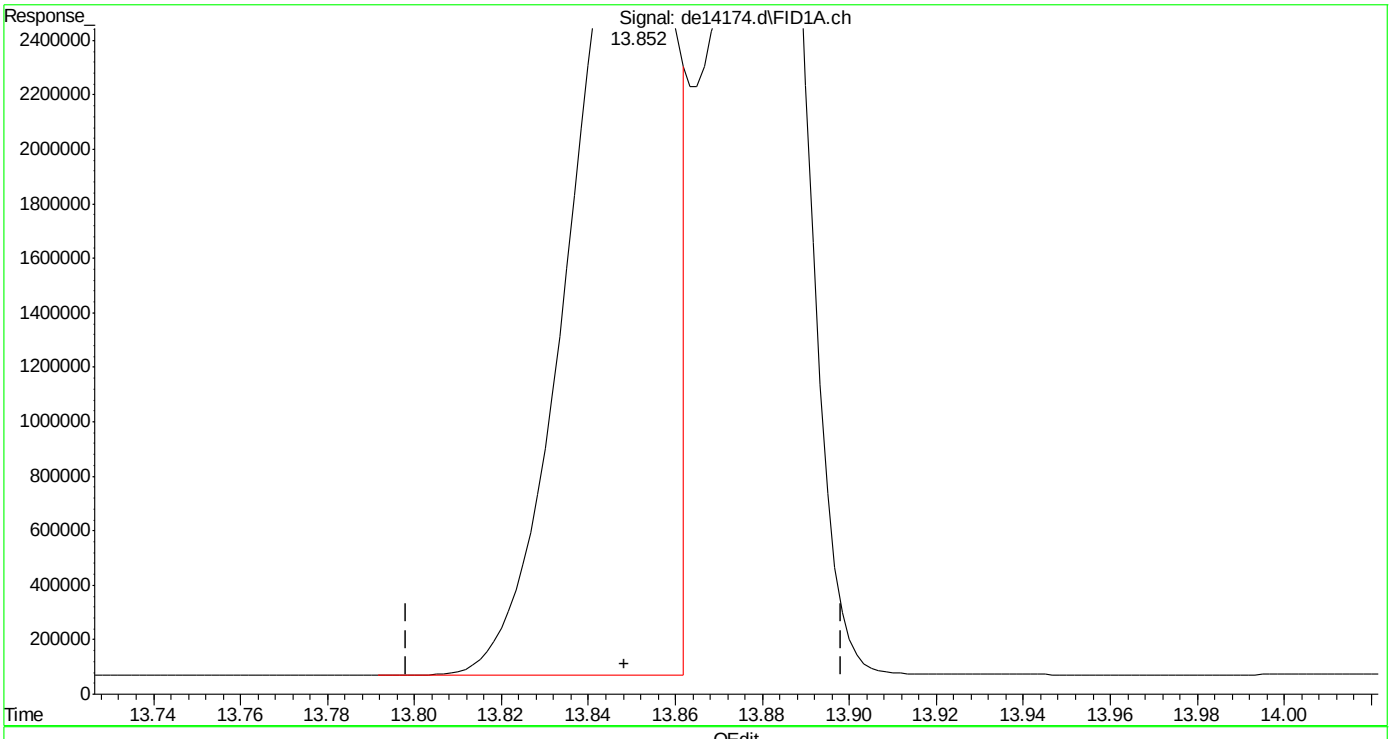
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14174.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 7:18 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 08:32:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
13.852min 50.075 µg/ml
response 4957532

(+) = Expected Retention Time

EPH160519W.M Fri May 20 13:32:32 2016

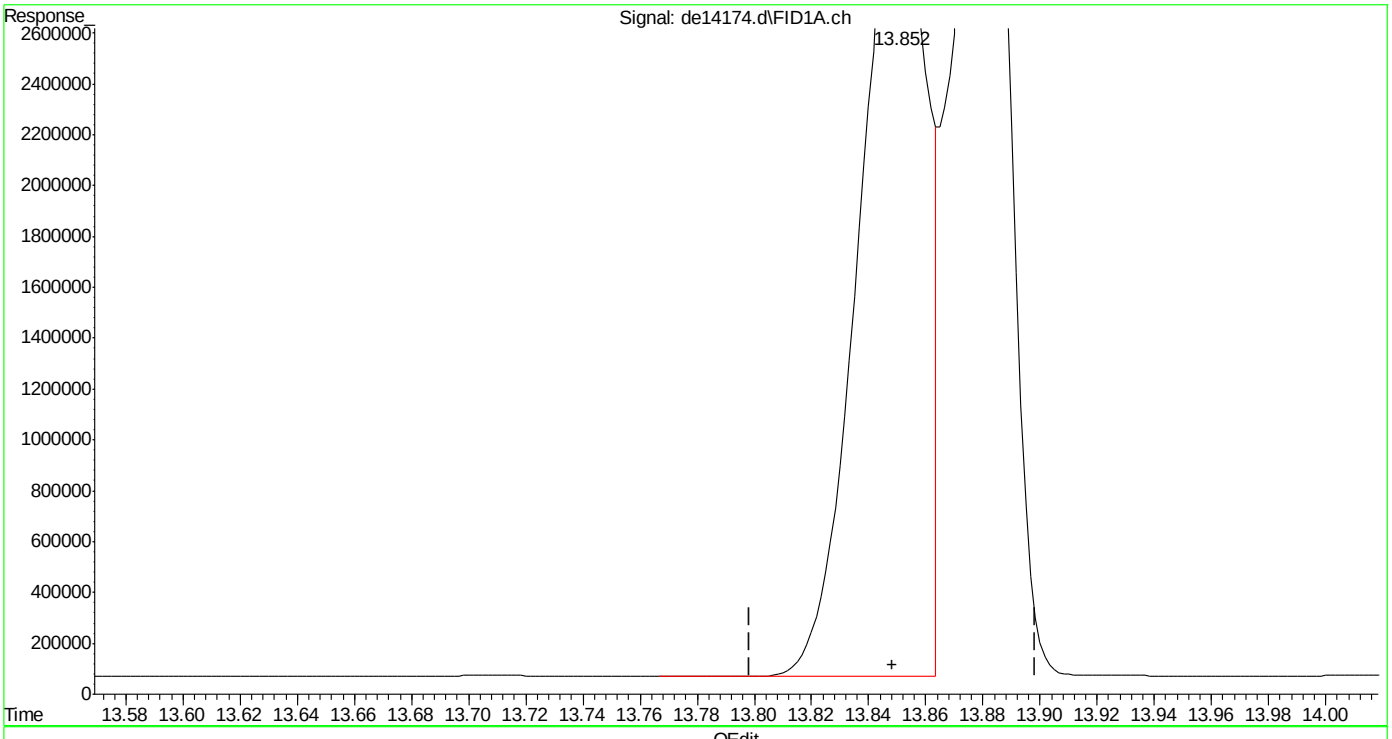
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14174.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 7:18 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 08:32:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(16) benzo(B)fluoranthene
13.852min 52.291 µg/ml m
response 5176952

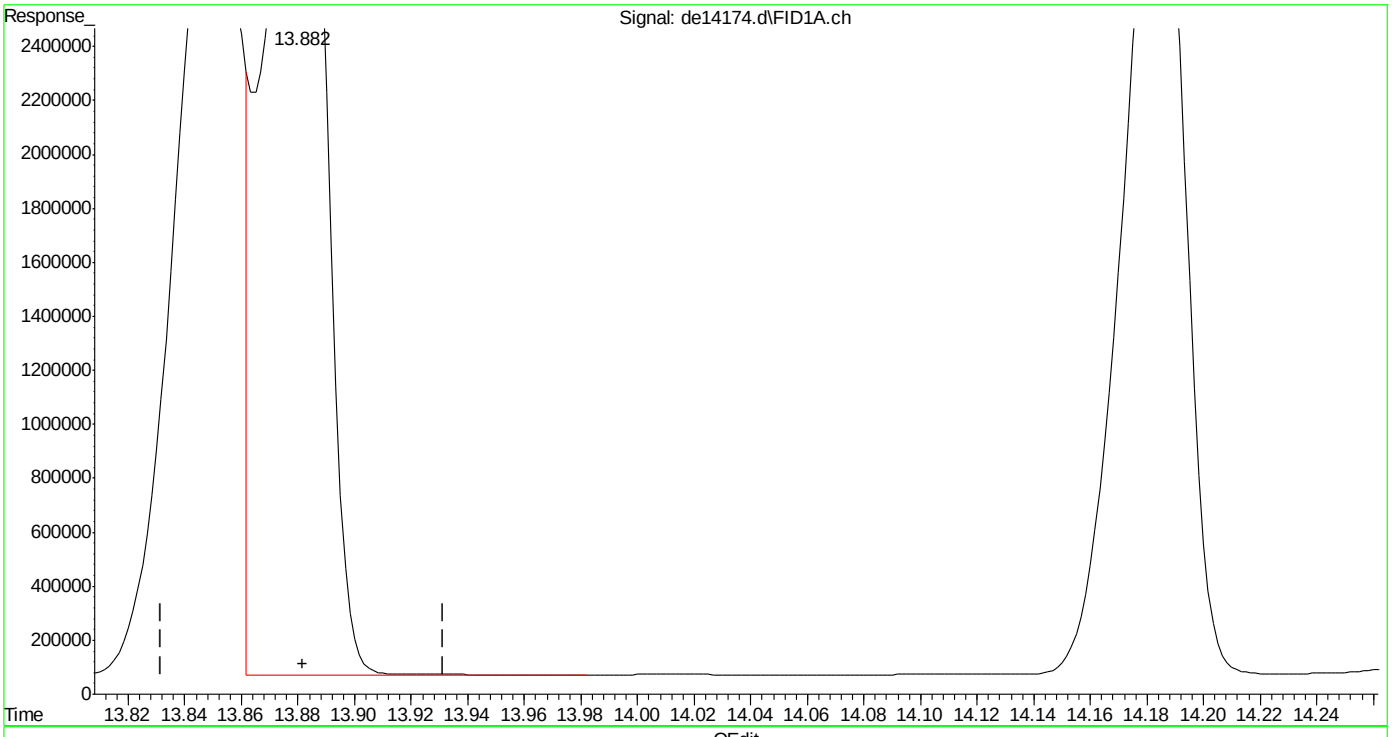
(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:32:44 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14174.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 19 May 2016   7:18 pm
Operator  : thomasa
Sample    : cc735-50,gde793
Misc      : op47498,gde793,1000,,,2,,s
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 08:32:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```



(17) benzo(k)fluoranthene

13.882min 58.070 µg/ml

response 5487787

(+) = Expected Retention Time

EPH160519W.M Fri May 20 13:32:50 2016

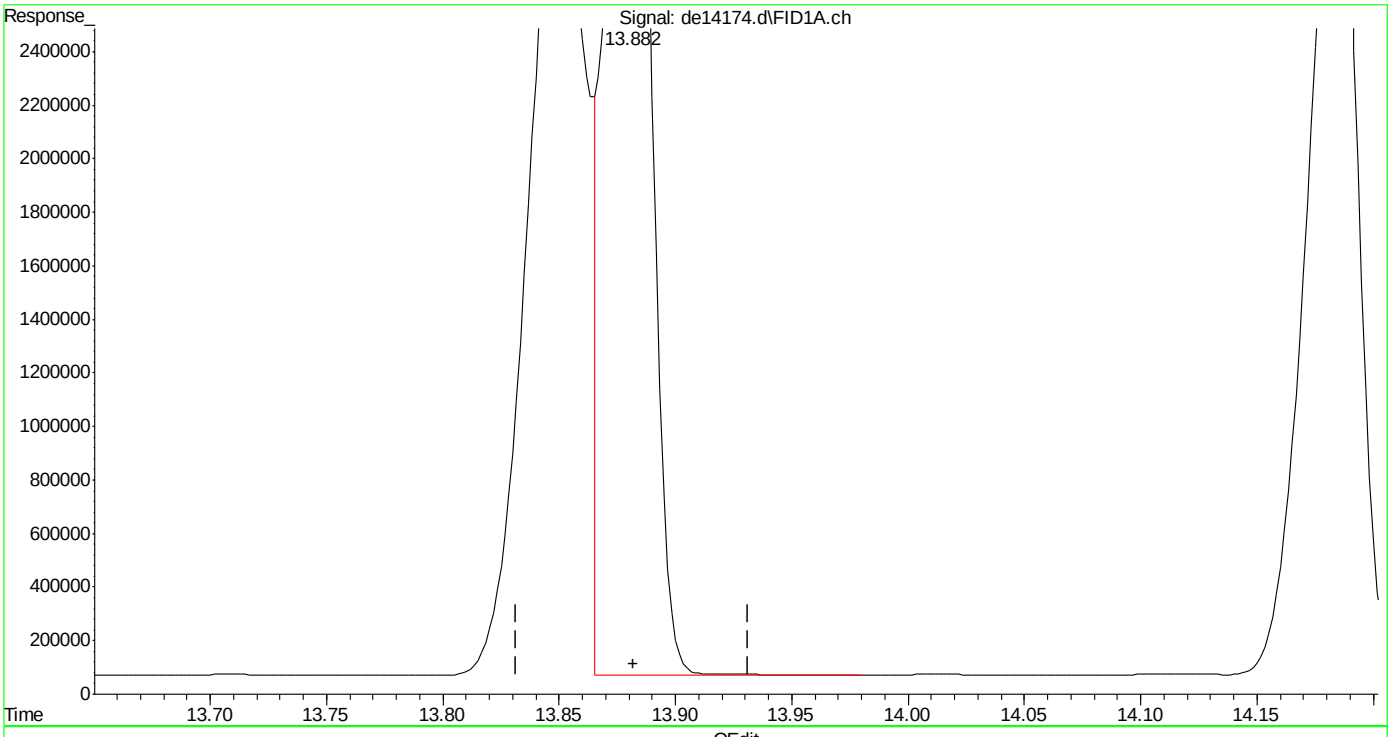
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14174.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 19 May 2016 7:18 pm
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 08:32:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(17) benzo(k)fluoranthene
13.882min 53.541 µg/ml m
response 5059727

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:33:04 2016

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/20/16 15:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14185.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 12:27 am
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:31:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.605	5366819	58.189 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 290.94%#	
6) s 2-bromonaphthalene	7.332	3616538	57.630 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 288.15%#	
11) s o-terphenyl	9.872	5948702	58.078 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 290.39%#	
35) s 1-chlorooctadecane	11.227	2986683	52.792 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 263.96%#	
Target Compounds			
2) naphthalene	5.152	6008949	58.260 µg/ml
3) 2-methylnaphthalene	6.052	5887186	57.446 µg/ml
5) acenaphthylene	7.167	5903708	58.684 µg/ml
7) acenaphthene	7.408	6170614	59.691 µg/ml
8) fluorene	8.052	5985566	58.932 µg/ml
9) phenanthrene	9.230	5947985	58.449 µg/ml
10) anthracene	9.288	5745375	59.226 µg/ml
12) fluoranthene	10.735	5774736	57.781 µg/ml
13) pyrene	10.992	5900208	58.152 µg/ml
14) benzo(a)anthracene	12.553	5414606	56.008 µg/ml
15) chrysene	12.602	5457026	56.061 µg/ml
16) benzo(B)fluoranthene	13.852	5522880	55.785 µg/ml
17) benzo(k)fluoranthene	13.882	5322281	56.319 µg/ml
18) benzo(a)pyrene	14.183	5139344	55.599 µg/ml
19) indeno(1,2,3-cd)pyrene	15.327	5339305	56.406 µg/mlm
20) dibenzo(ah)anthracene	15.368	5110365	55.913 µg/mlm
21) benzo(ghi)perylene	15.550	5168415	56.103 µg/ml
25) h c-9	2.647	3787629	51.273 µg/mlm
26) h c-10	3.815	3832735	51.883 µg/ml
27) naphthalene #2	5.488	4094326	51.261 µg/ml
28) c-12	5.667	3814795	51.641 µg/ml
29) 2-methylnaphthalene #2	6.382	4095093	50.829 µg/ml
30) c-14	7.183	3796577	51.394 µg/ml
31) c-16	8.512	3769082	51.022 µg/ml
32) c-18	9.707	3771347	51.052 µg/ml
33) c-19	10.262	3749083	56.119 µg/ml
34) c-20	10.792	3687106	55.191 µg/ml
36) c-22	11.787	3667240	54.894 µg/ml
37) c-24	12.705	3430948	51.357 µg/ml
38) c-26	13.557	3651190	54.653 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14185.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 12:27 am
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:31:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc Units
39)	c-28	14.350	3530773	52.851 µg/ml
40) h	c-30	15.098	3528496	52.817 µg/ml
41) h	c-36	16.983	3242064	48.529 µg/mlm

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

9.5.11

9

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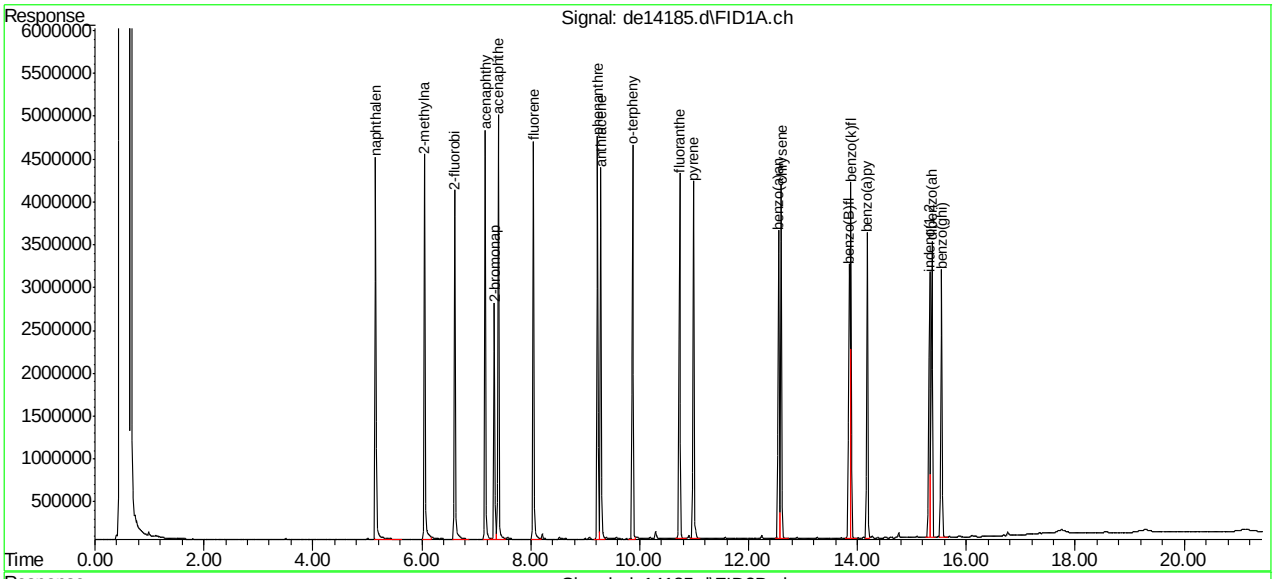
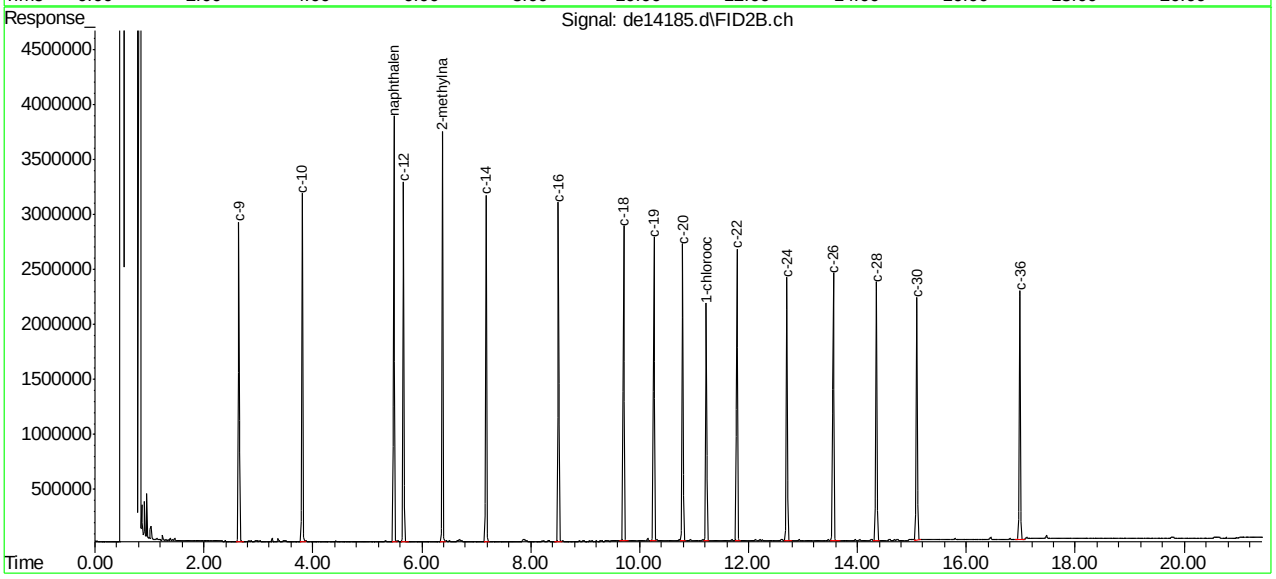
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14185.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 12:27 am
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:31:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





EPH160519W.M Fri May 20 14:44:07 2016 Page: 3

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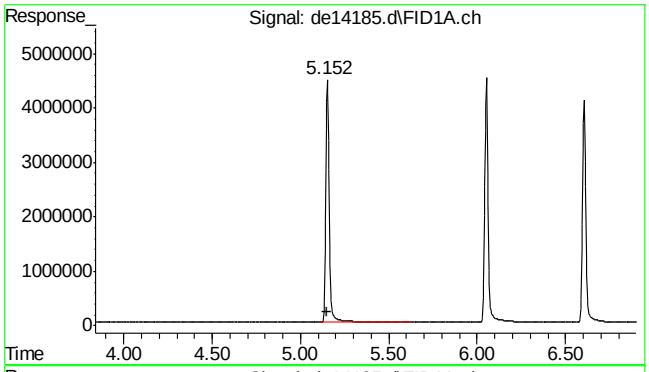
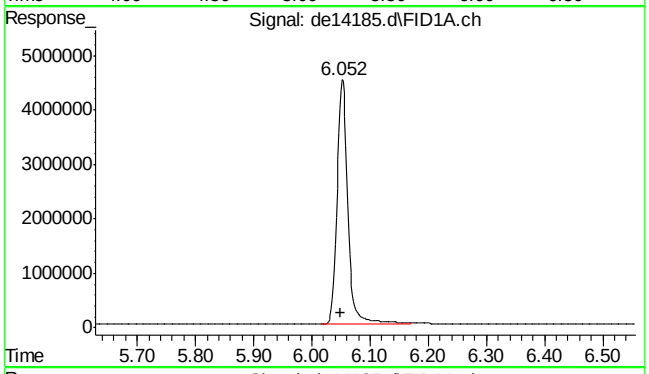


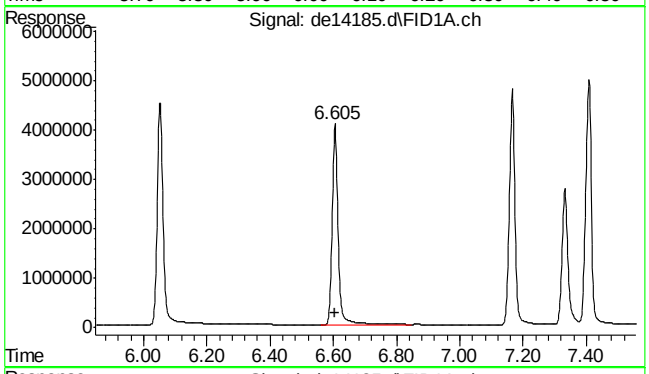
#2 naphthalene

R.T.: 5.152 min
Delta R.T.: 0.002 min
Response: 6008949
Conc: 58.26 µg/ml



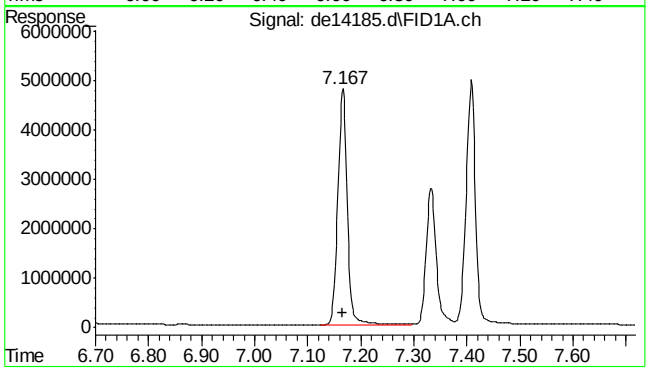
#3 2-methylnaphthalene

R.T.: 6.052 min
Delta R.T.: 0.002 min
Response: 5887186
Conc: 57.45 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 5366819
Conc: 58.19 µg/ml



#5 acenaphthylene

R.T.: 7.167 min
Delta R.T.: 0.002 min
Response: 5903708
Conc: 58.68 µg/ml

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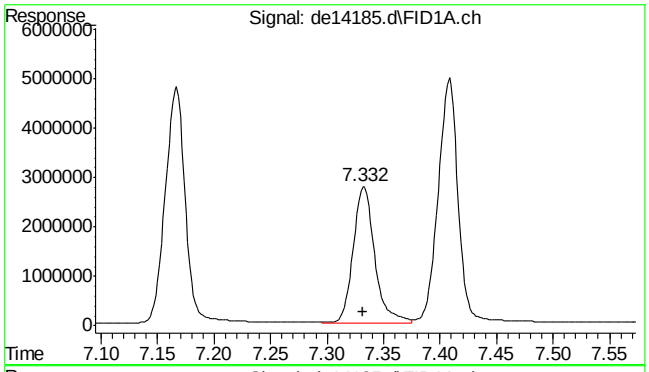
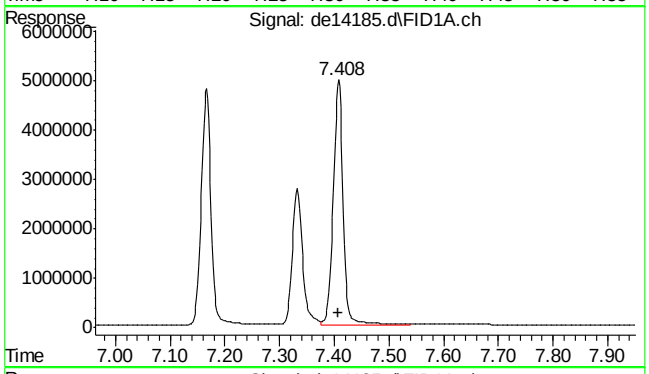


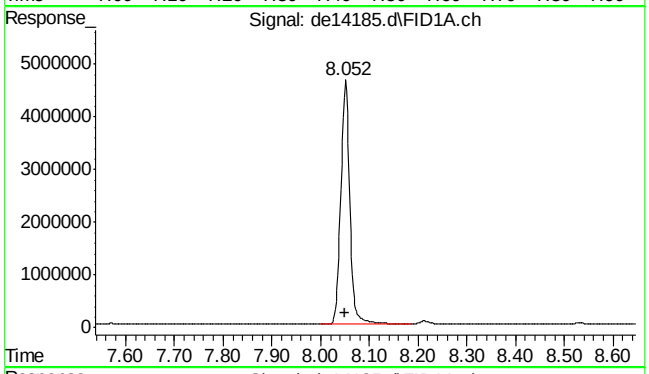
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 3616538
Conc: 57.63 µg/ml



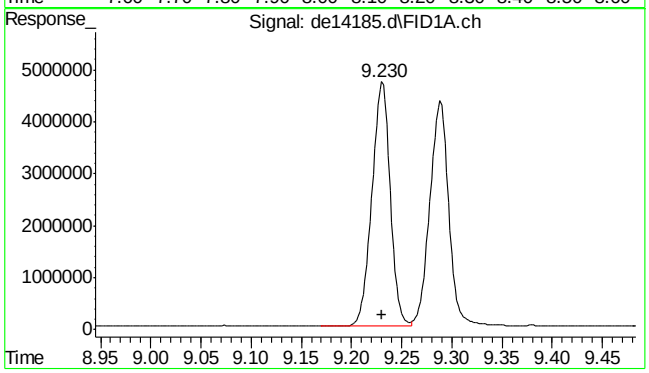
#7 acenaphthene

R.T.: 7.408 min
Delta R.T.: 0.002 min
Response: 6170614
Conc: 59.69 µg/ml



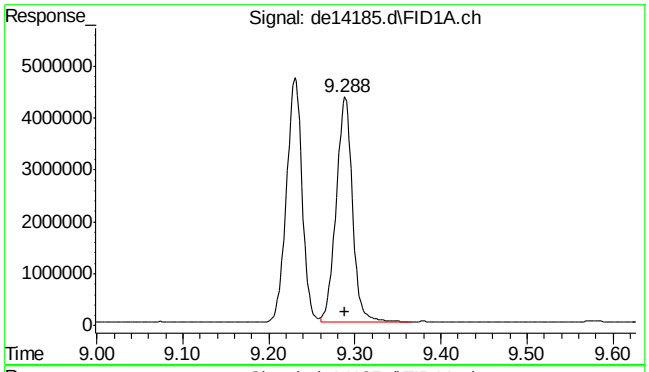
#8 fluorene

R.T.: 8.052 min
Delta R.T.: 0.002 min
Response: 5985566
Conc: 58.93 µg/ml



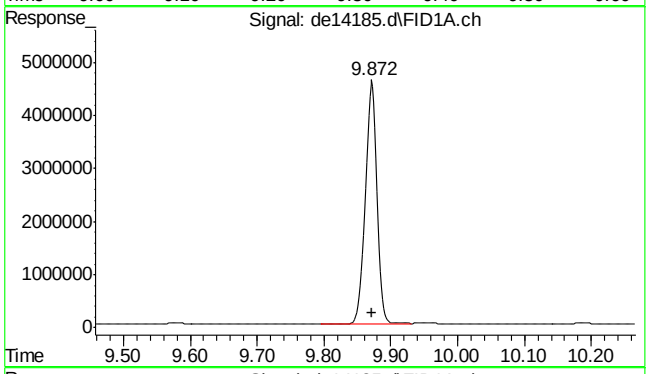
#9 phenanthrene

R.T.: 9.230 min
Delta R.T.: 0.000 min
Response: 5947985
Conc: 58.45 µg/ml



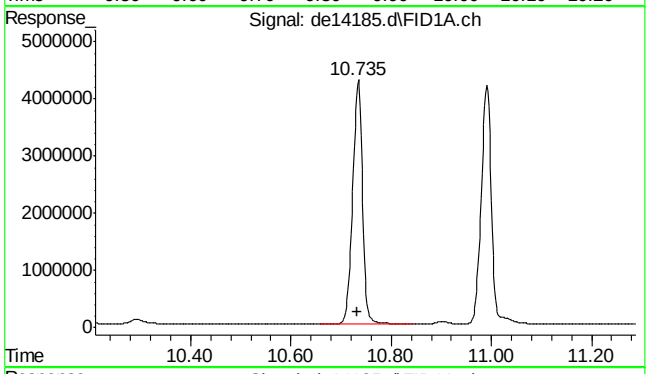
#10 anthracene

R.T.: 9.288 min
Delta R.T.: 0.000 min
Response: 5745375
Conc: 59.23 µg/ml



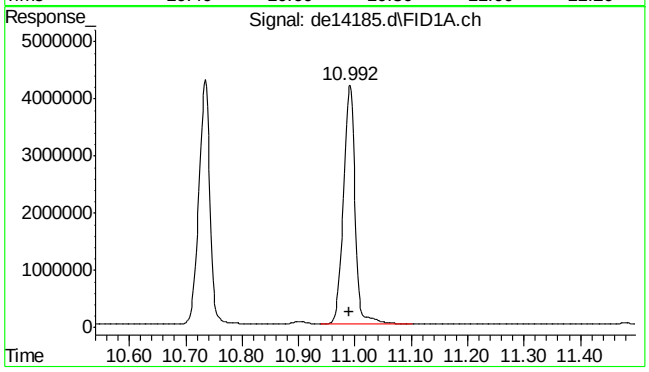
#11 o-terphenyl

R.T.: 9.872 min
Delta R.T.: 0.000 min
Response: 5948702
Conc: 58.08 µg/ml



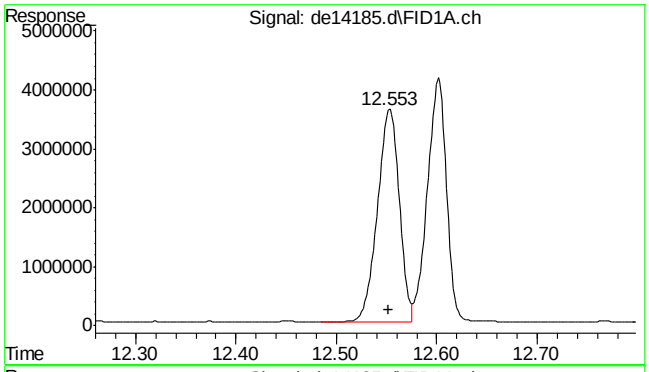
#12 fluoranthene

R.T.: 10.735 min
Delta R.T.: 0.002 min
Response: 5774736
Conc: 57.78 µg/ml



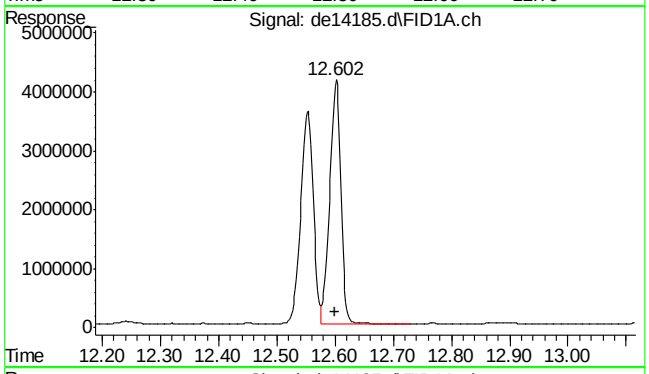
#13 pyrene

R.T.: 10.992 min
Delta R.T.: 0.002 min
Response: 5900208
Conc: 58.15 µg/ml



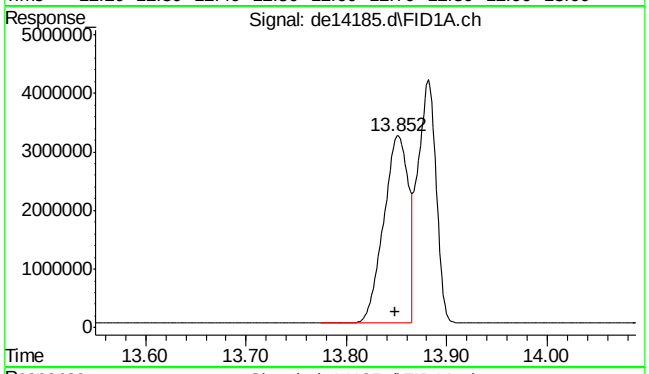
#14 benzo(a)anthracene

R.T.: 12.553 min
Delta R.T.: 0.002 min
Response: 5414606
Conc: 56.01 µg/ml



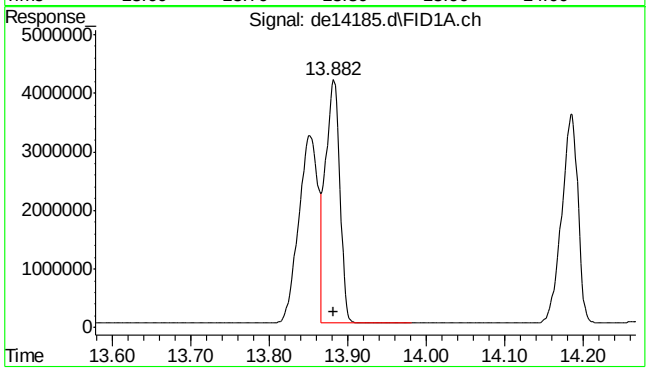
#15 chrysene

R.T.: 12.602 min
Delta R.T.: 0.002 min
Response: 5457026
Conc: 56.06 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.852 min
Delta R.T.: 0.003 min
Response: 5522880
Conc: 55.79 µg/ml



#17 benzo(k)fluoranthene

R.T.: 13.882 min
Delta R.T.: 0.000 min
Response: 5322281
Conc: 56.32 µg/ml

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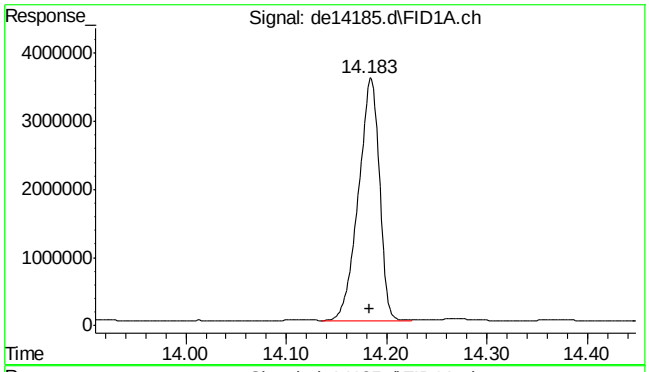
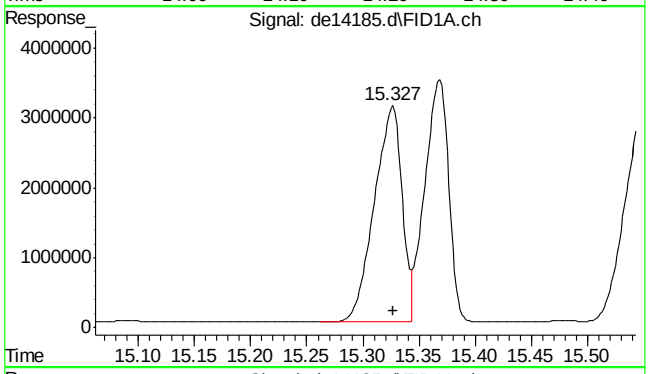


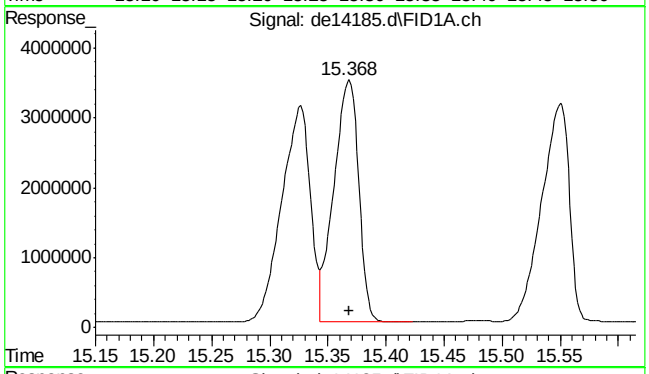
#18 benzo(a)pyrene

R.T.: 14.183 min
Delta R.T.: 0.000 min
Response: 5139344
Conc: 55.60 µg/ml



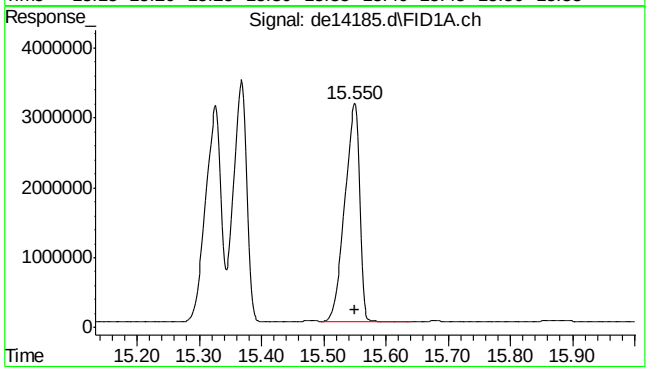
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.327 min
Delta R.T.: 0.000 min
Response: 5339305
Conc: 56.41 µg/ml m



#20 dibenzo(ah)anthracene

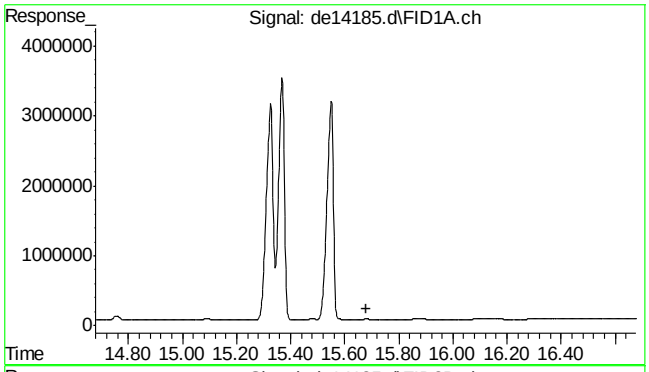
R.T.: 15.368 min
Delta R.T.: 0.000 min
Response: 5110365
Conc: 55.91 µg/ml m



#21 benzo(ghi)perylene

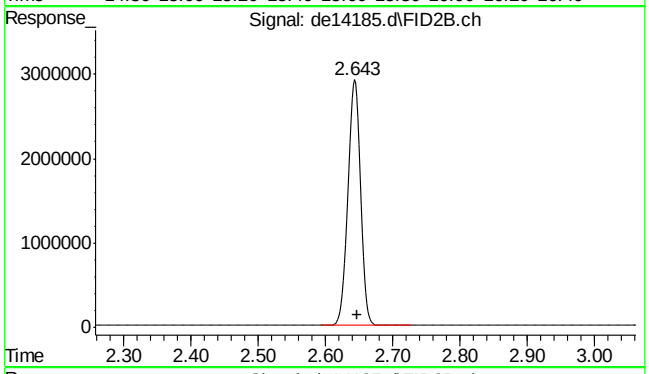
R.T.: 15.550 min
Delta R.T.: 0.000 min
Response: 5168415
Conc: 56.10 µg/ml

SGS ACCUTEST MC45897



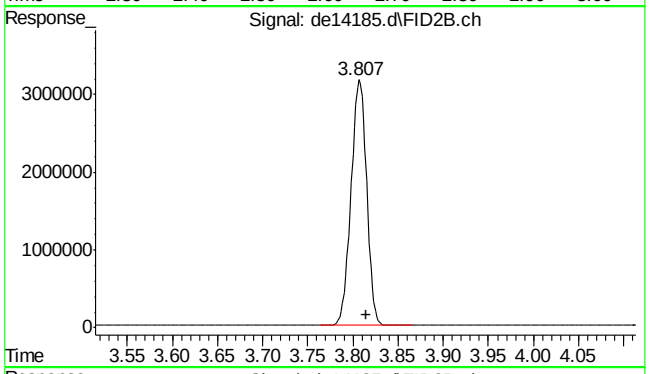
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



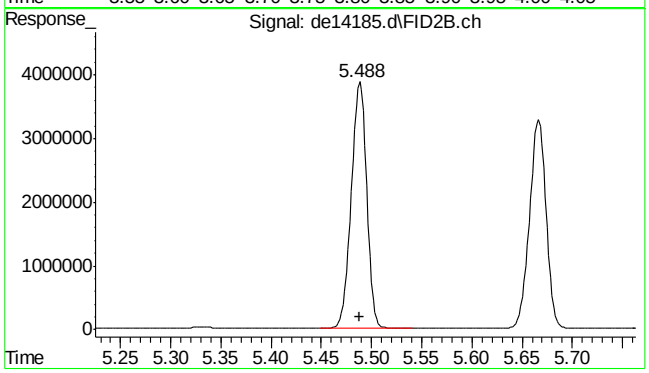
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 3787629
Conc: 51.27 µg/ml m



#26 c-10

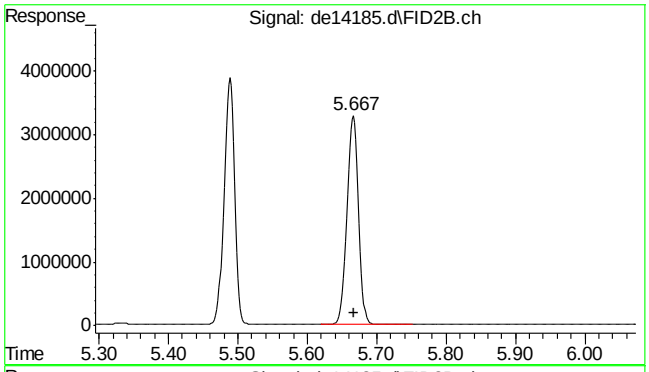
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3832735
Conc: 51.88 µg/ml



#27 naphthalene #2

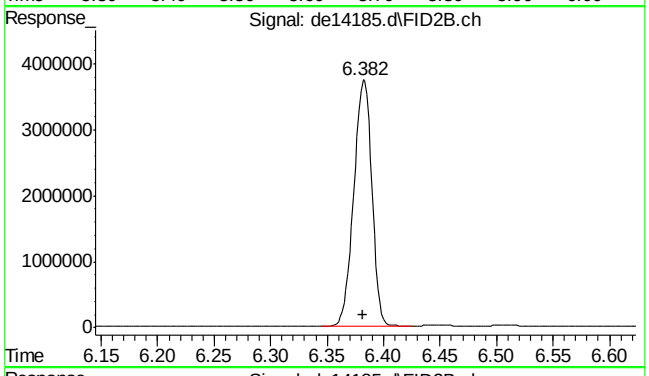
R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4094326
Conc: 51.26 µg/ml

SGS ACCUTEST MC45897



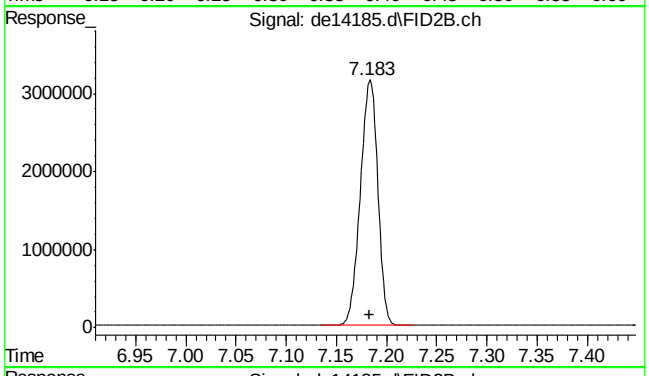
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 3814795
Conc: 51.64 µg/ml



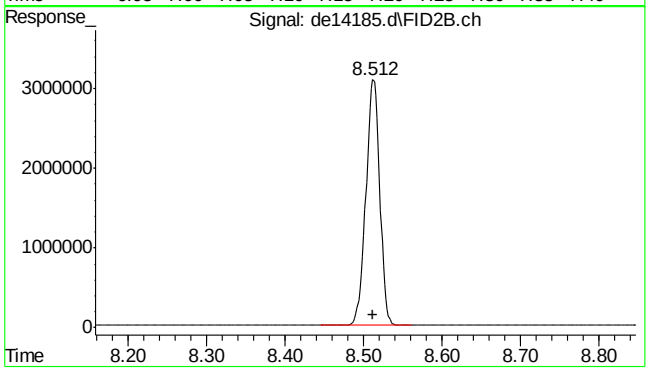
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: 0.000 min
Response: 4095093
Conc: 50.83 µg/ml



#30 c-14

R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 3796577
Conc: 51.39 µg/ml



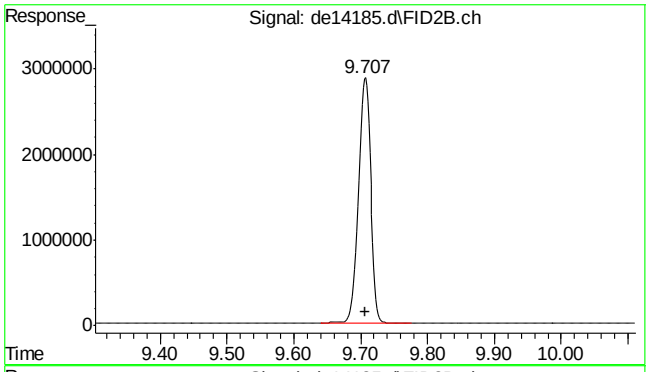
#31 c-16

R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 3769082
Conc: 51.02 µg/ml

9.5.11

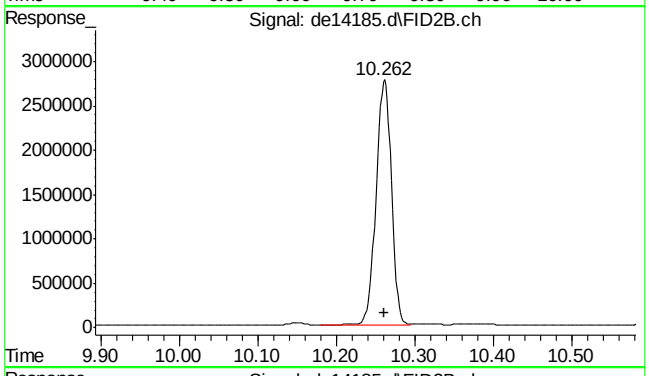
9

SGS ACCUTEST MC45897



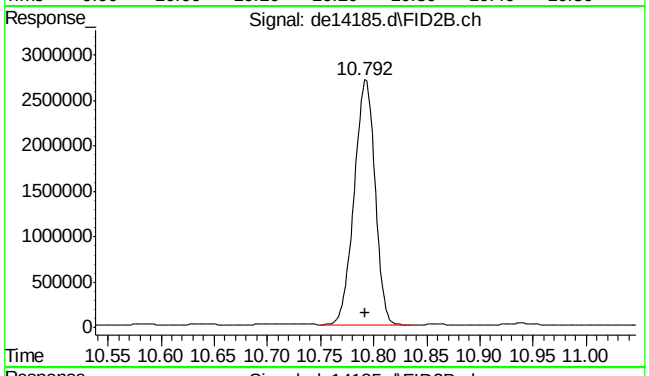
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3771347
Conc: 51.05 µg/ml



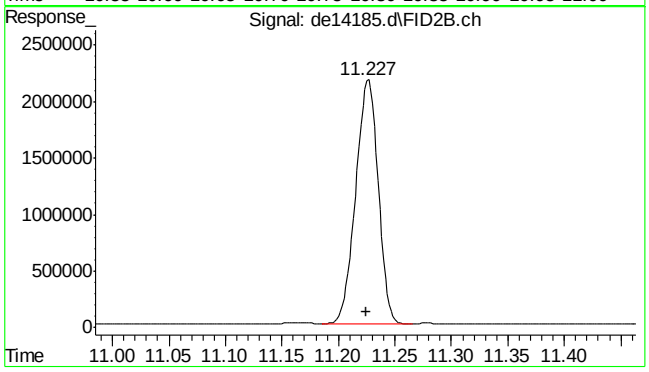
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 3749083
Conc: 56.12 µg/ml



#34 c-20

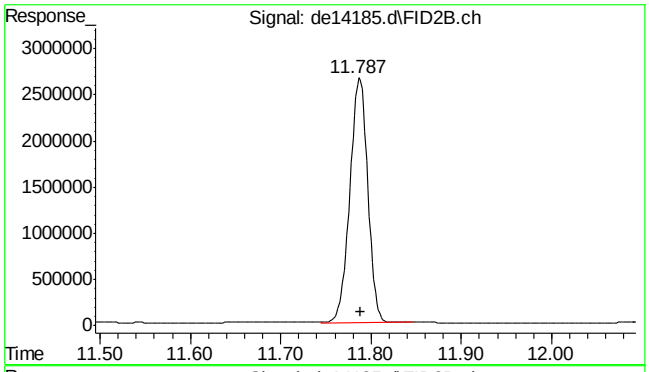
R.T.: 10.792 min
Delta R.T.: 0.000 min
Response: 3687106
Conc: 55.19 µg/ml



#35 1-chlorooctadecane

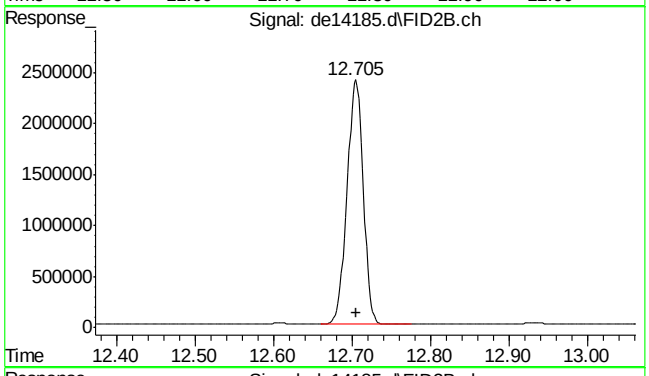
R.T.: 11.227 min
Delta R.T.: 0.002 min
Response: 2986683
Conc: 52.79 µg/ml

SGS ACCUTEST MC45897



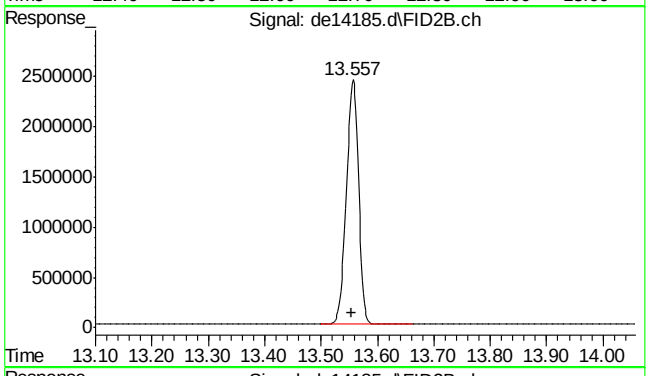
#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.002 min
Response: 3667240
Conc: 54.89 µg/ml



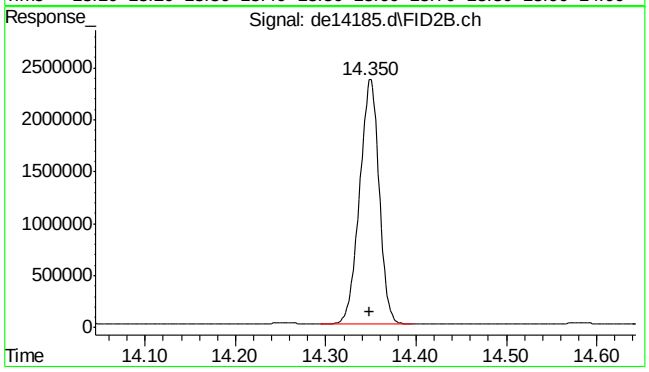
#37 c-24

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 3430948
Conc: 51.36 µg/ml



#38 c-26

R.T.: 13.557 min
Delta R.T.: 0.002 min
Response: 3651190
Conc: 54.65 µg/ml



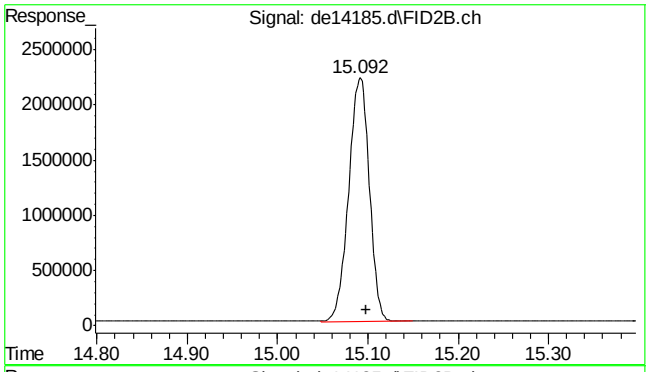
#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.002 min
Response: 3530773
Conc: 52.85 µg/ml

9.5.11

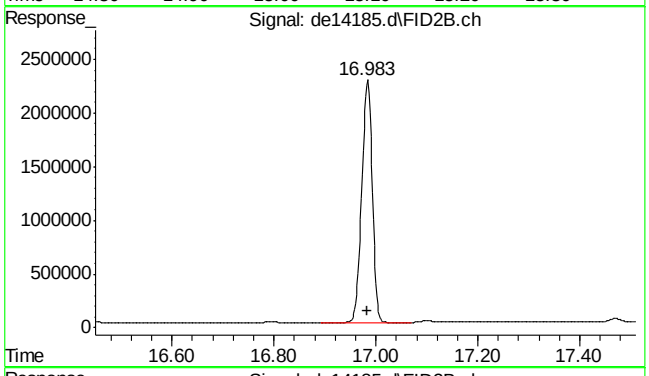
9

SGS ACCUTEST MC45897



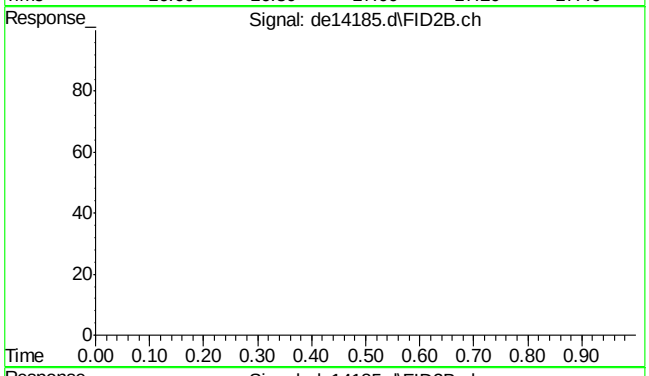
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3528496
Conc: 52.82 µg/ml



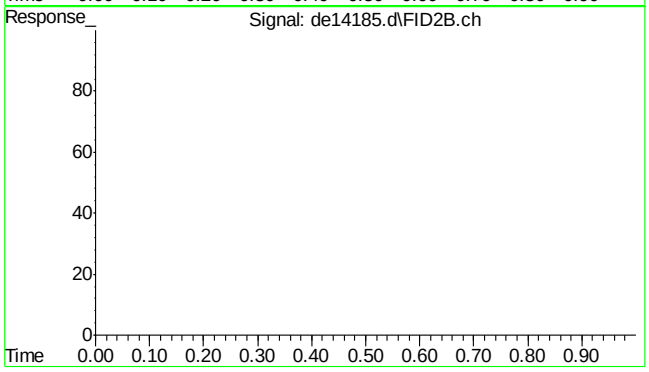
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3242064
Conc: 48.53 µg/ml m



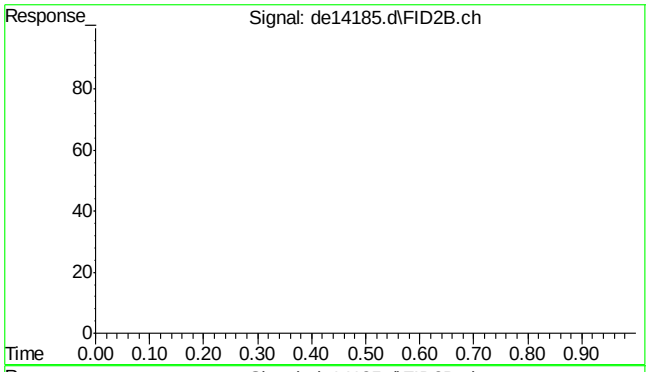
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



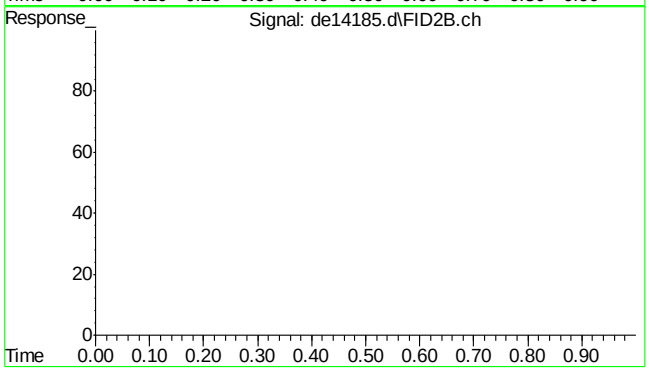
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

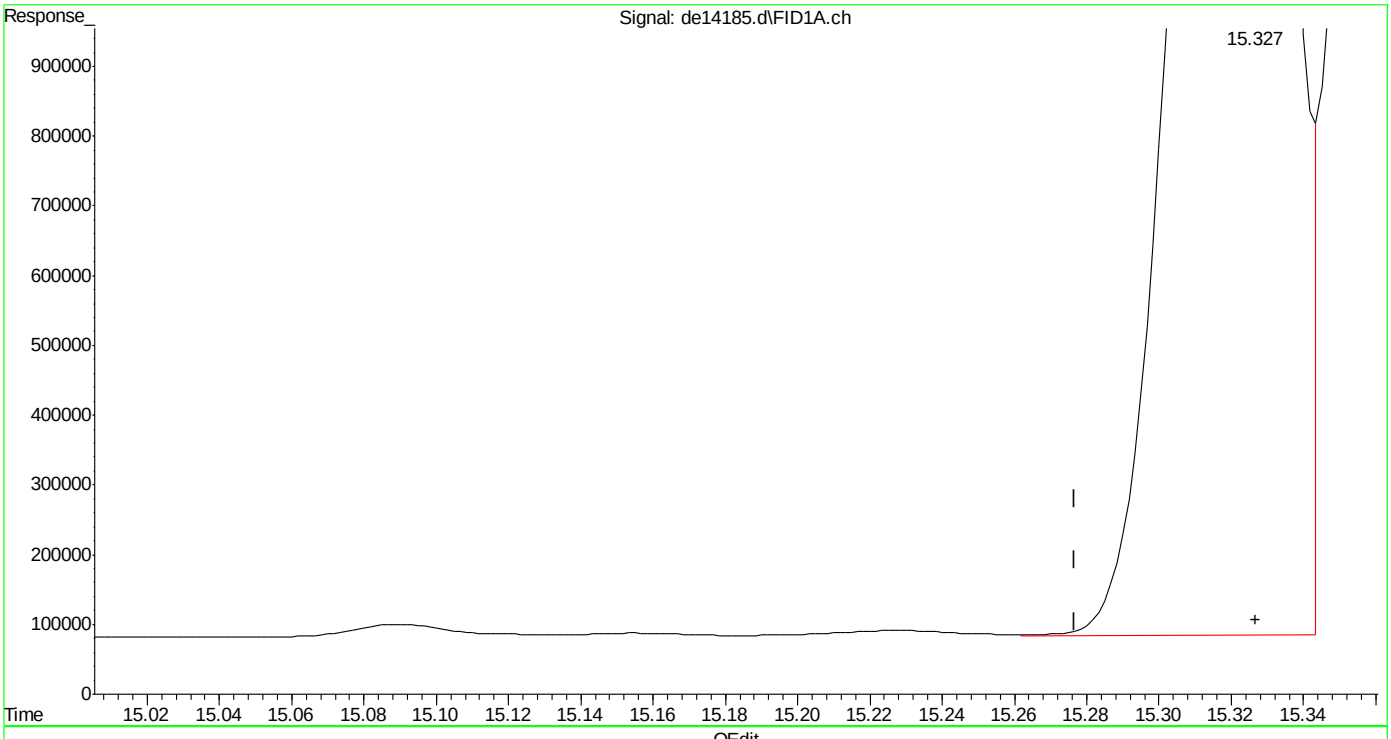
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14185.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 12:27 am
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 08:26:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(19) indeno(1,2,3-cd)pyrene
15.327min 56.406 µg/ml m
response 5339305

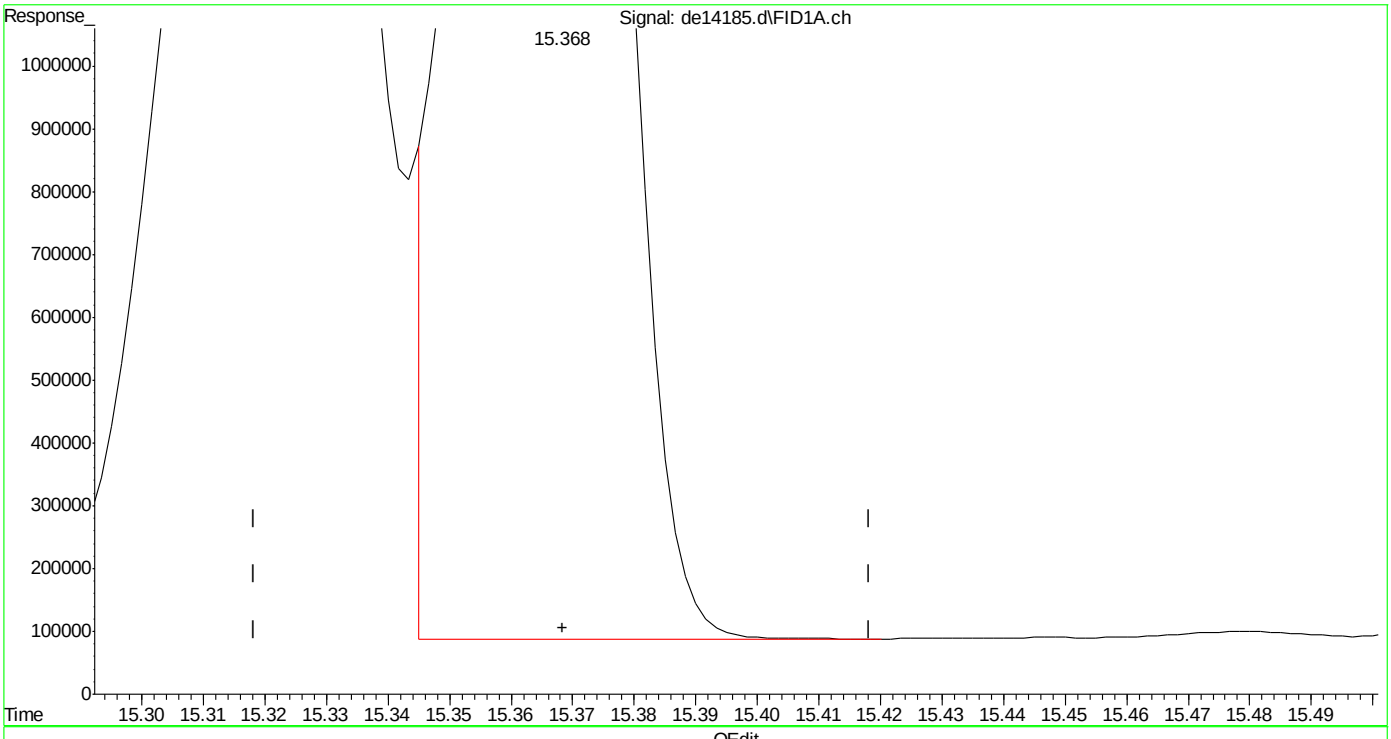
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14185.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 12:27 am
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 08:26:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.368min 54.922 µg/ml
response 5019791

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:31:17 2016

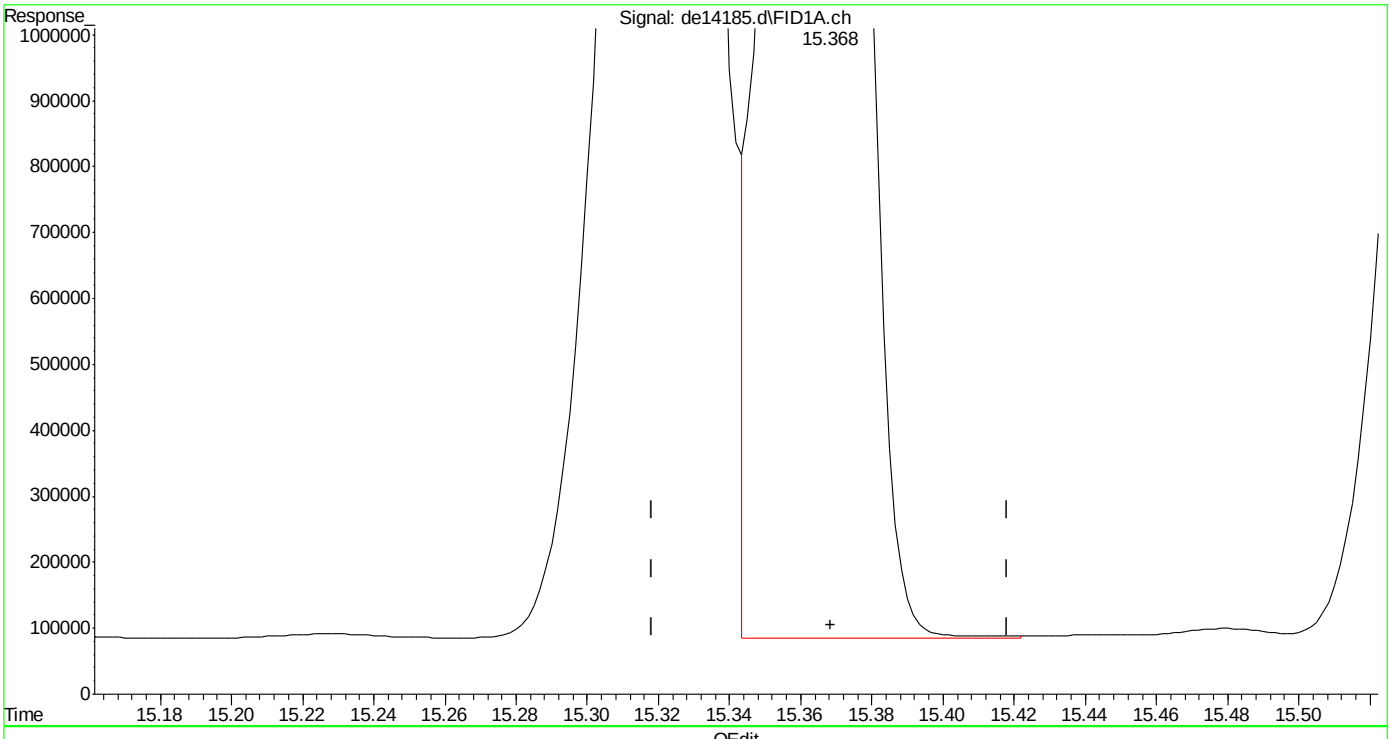
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14185.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 12:27 am
Operator : thomasa
Sample : cc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 08:26:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) dibenzo(ah)anthracene
15.368min 55.913 µg/ml m
response 5110365

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:31:27 2016

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14190.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 2:47 am
Operator : thomasa
Sample : cc735-50,gde793 (Sig #1); ecc735-50,gde793 (Sig #2)
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:43:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.603	4152657	45.025 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 225.12%#		
6) s 2-bromonaphthalene	7.330	2874951	45.812 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 229.06%#		
11) s o-terphenyl	9.870	5105674	49.847 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 249.24%#		
35) s 1-chlorooctadecane	11.227	3015662	53.304 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 266.52%#		
Target Compounds			
2) naphthalene	5.150	4469702	43.336 µg/ml
3) 2-methylnaphthalene	6.050	4576316	44.655 µg/ml
5) acenaphthylene	7.163	4652322	46.245 µg/ml
7) acenaphthene	7.405	4924514	47.637 µg/ml
8) fluorene	8.048	4883972	48.086 µg/ml
9) phenanthrene	9.230	5047376	49.599 µg/ml
10) anthracene	9.287	4910927	50.624 µg/ml
12) fluoranthene	10.732	5194924	51.980 µg/ml
13) pyrene	10.988	5348903	52.718 µg/ml
14) benzo(a)anthracene	12.552	5224353	54.040 µg/ml
15) chrysene	12.600	5223688	53.664 µg/ml
16) benzo(B)fluoranthene	13.850	5744309	58.022 µg/ml
17) benzo(k)fluoranthene	13.880	5129228	54.276 µg/ml
18) benzo(a)pyrene	14.185	5207886	56.341 µg/ml
19) indeno(1,2,3-cd)pyrene	15.325	5455742	57.636 µg/ml
20) dibenzo(ah)anthracene	15.367	5298441	57.971 µg/ml
21) benzo(ghi)perylene	15.548	5343109	58.000 µg/ml
25) h c-9	2.647	3739615	50.623 µg/mlm
26) h c-10	3.815	3788289	51.282 µg/ml
27) naphthalene #2	5.488	4043765	50.628 µg/ml
28) c-12	5.665	3779245	51.159 µg/ml
29) 2-methylnaphthalene #2	6.382	4057958	50.368 µg/ml
30) c-14	7.183	3780369	51.174 µg/ml
31) c-16	8.512	3772734	51.071 µg/ml
32) c-18	9.707	3795175	51.375 µg/ml
33) c-19	10.262	3780931	56.595 µg/ml
34) c-20	10.792	3713216	55.582 µg/ml
36) c-22	11.787	3706157	55.476 µg/ml
37) c-24	12.705	3478196	52.064 µg/ml
38) c-26	13.555	3707696	55.499 µg/ml

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14190.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 2:47 am
Operator : thomasa
Sample : cc735-50,gde793 (Sig #1); ecc735-50,gde793 (Sig #2)
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:43:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.348	3592070	53.768	µg/ml
40) h	c-30	15.098	3598009	53.857	µg/mlm
41) h	c-36	16.983	3338826	49.978	µg/mlm

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

9.5.12

9

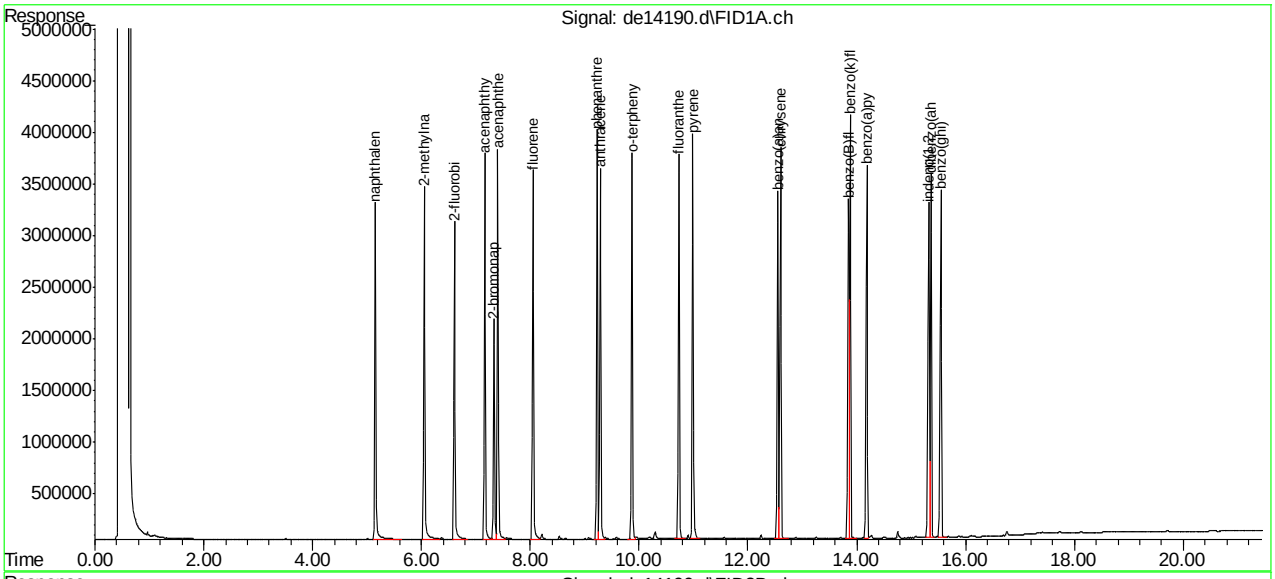
SGS ACCUTEST MC45897

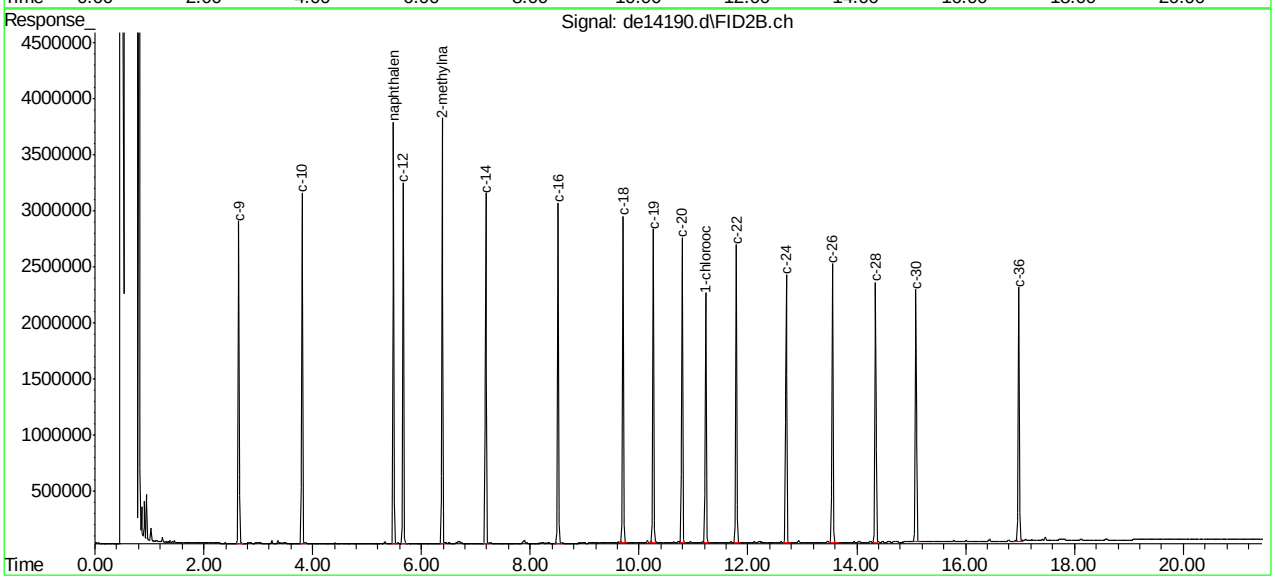
Quantitation Report (QT Reviewed)

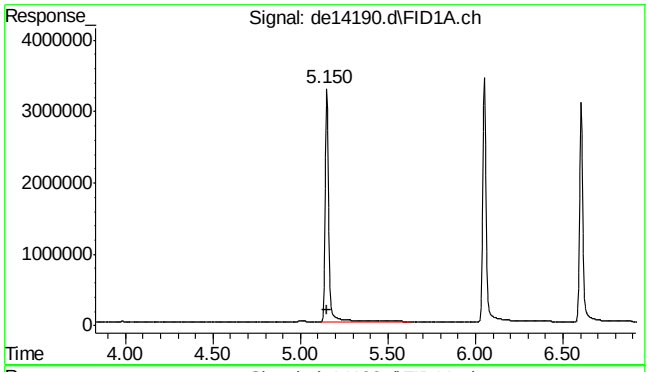
Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14190.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 2:47 am
Operator : thomasa
Sample : cc735-50,gde793 (Sig #1); ecc735-50,gde793 (Sig #2)
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 14:43:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

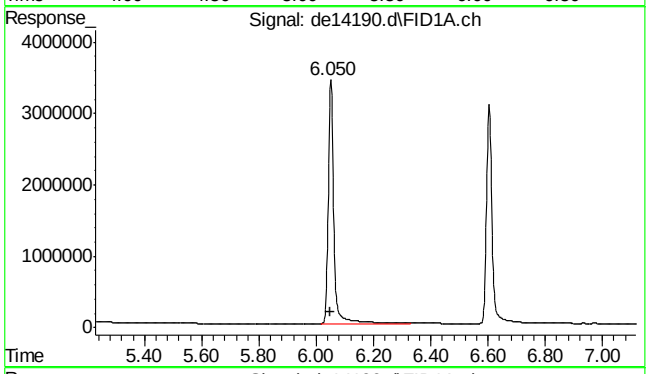






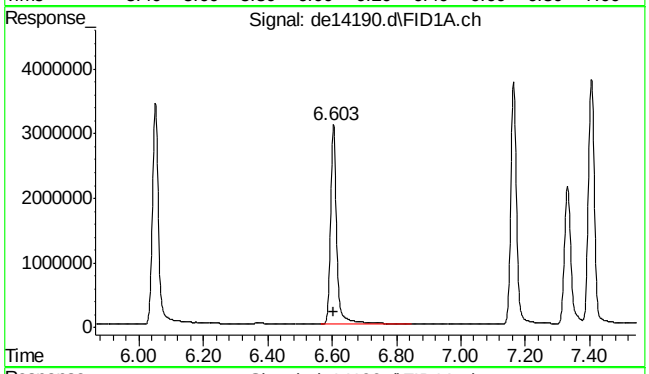
#2 naphthalene

R.T.: 5.150 min
Delta R.T.: 0.000 min
Response: 4469702
Conc: 43.34 µg/ml



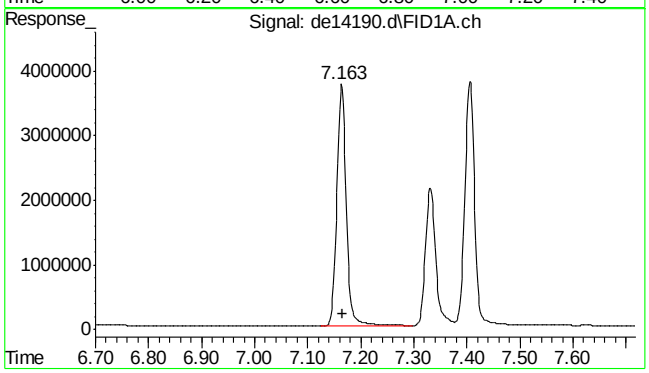
#3 2-methylnaphthalene

R.T.: 6.050 min
Delta R.T.: 0.000 min
Response: 4576316
Conc: 44.65 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.603 min
Delta R.T.: 0.000 min
Response: 4152657
Conc: 45.02 µg/ml



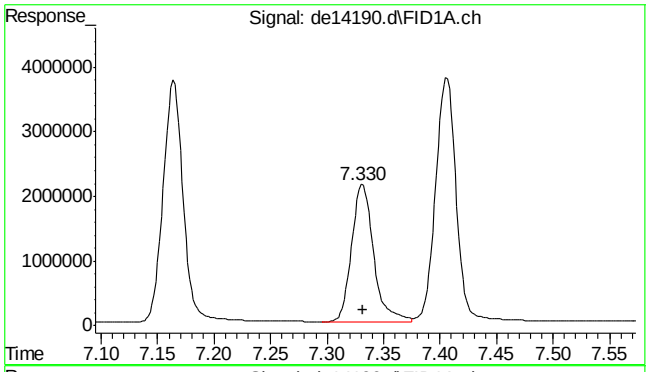
#5 acenaphthylene

R.T.: 7.163 min
Delta R.T.: -0.002 min
Response: 4652322
Conc: 46.24 µg/ml

9.5.12

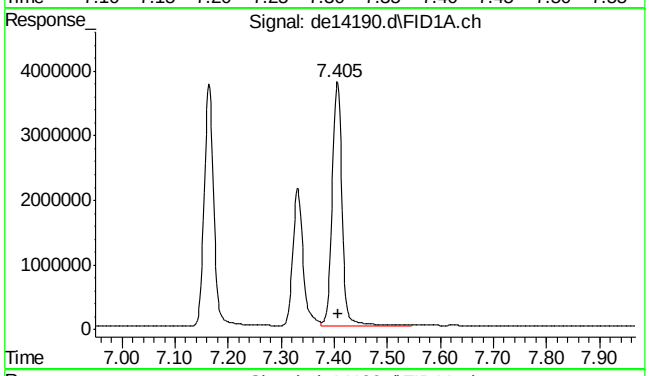
9

SGS ACCUTEST MC45897



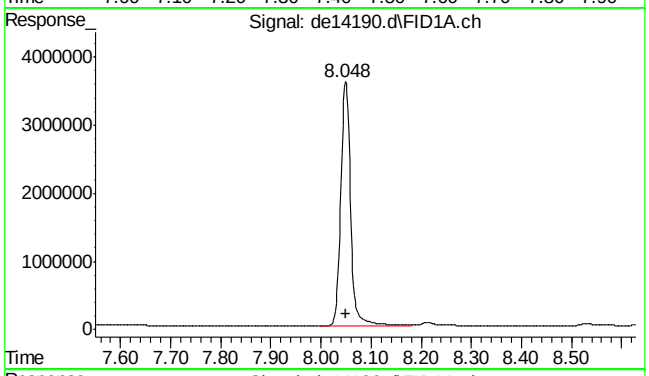
#6 2-bromonaphthalene

R.T.: 7.330 min
Delta R.T.: -0.002 min
Response: 2874951
Conc: 45.81 µg/ml



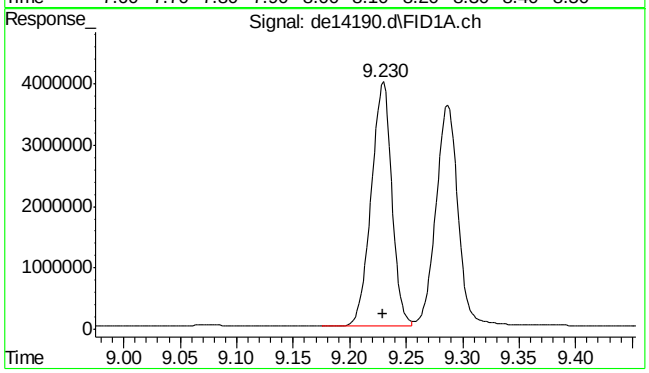
#7 acenaphthene

R.T.: 7.405 min
Delta R.T.: -0.002 min
Response: 4924514
Conc: 47.64 µg/ml



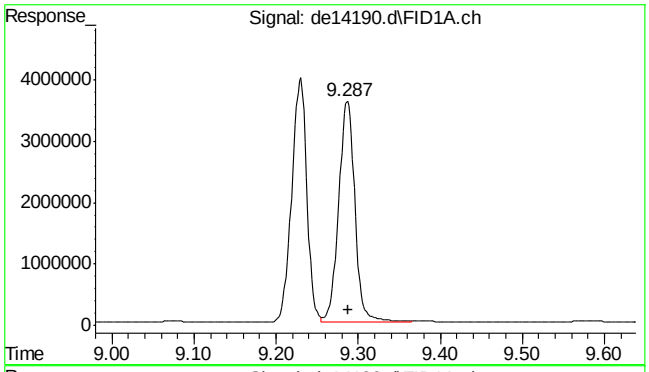
#8 fluorene

R.T.: 8.048 min
Delta R.T.: -0.002 min
Response: 4883972
Conc: 48.09 µg/ml



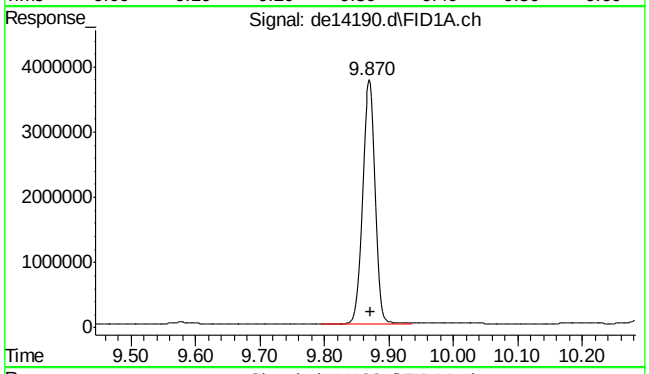
#9 phenanthrene

R.T.: 9.230 min
Delta R.T.: 0.000 min
Response: 5047376
Conc: 49.60 µg/ml



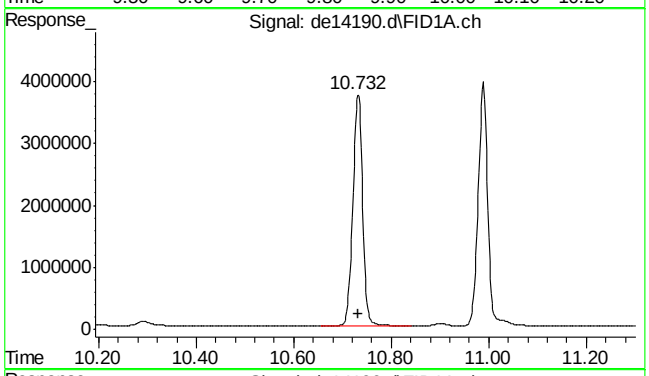
#10 anthracene

R.T.: 9.287 min
Delta R.T.: -0.002 min
Response: 4910927
Conc: 50.62 µg/ml



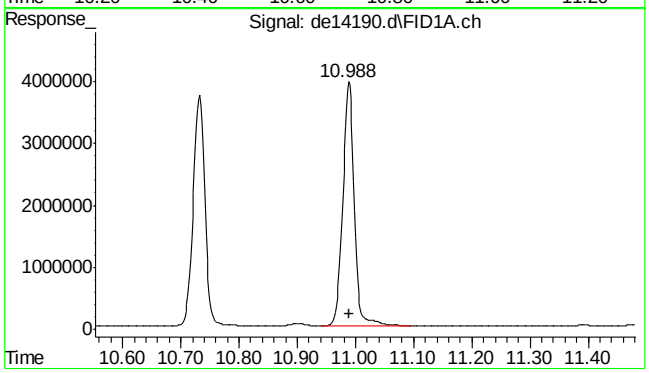
#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: -0.002 min
Response: 5105674
Conc: 49.85 µg/ml



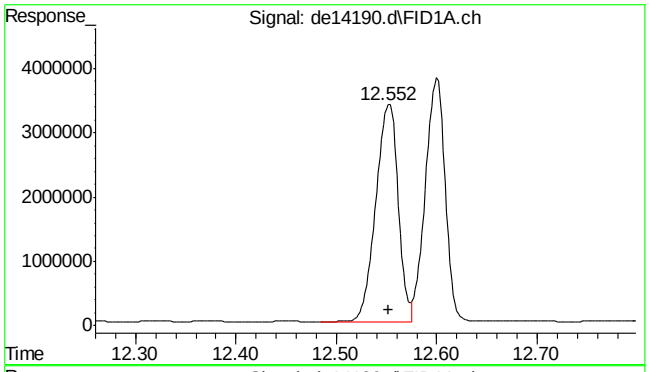
#12 fluoranthene

R.T.: 10.732 min
Delta R.T.: -0.002 min
Response: 5194924
Conc: 51.98 µg/ml



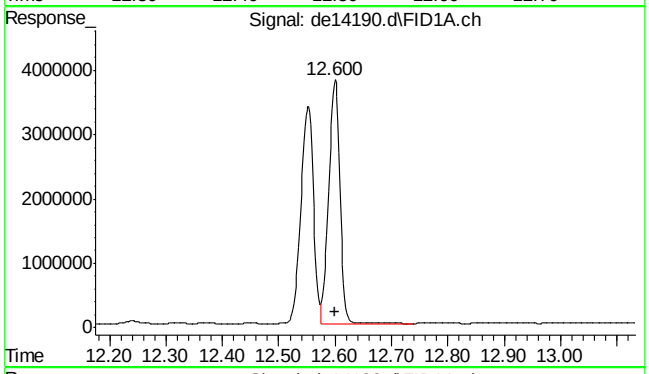
#13 pyrene

R.T.: 10.988 min
Delta R.T.: -0.002 min
Response: 5348903
Conc: 52.72 µg/ml



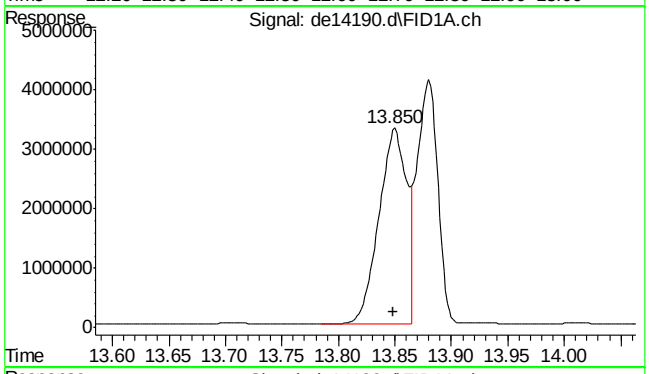
#14 benzo(a)anthracene

R.T.: 12.552 min
Delta R.T.: 0.000 min
Response: 5224353
Conc: 54.04 µg/ml



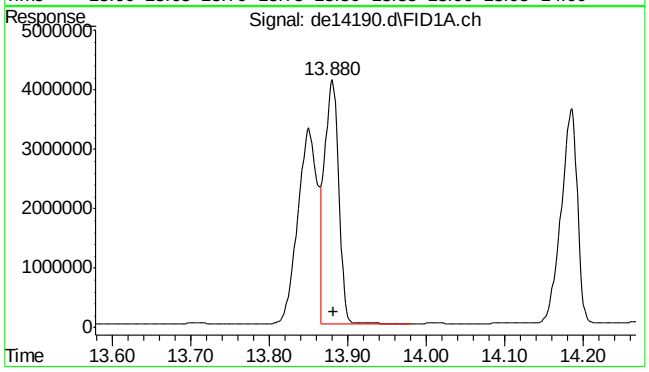
#15 chrysene

R.T.: 12.600 min
Delta R.T.: 0.000 min
Response: 5223688
Conc: 53.66 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.850 min
Delta R.T.: 0.002 min
Response: 5744309
Conc: 58.02 µg/ml



#17 benzo(k)fluoranthene

R.T.: 13.880 min
Delta R.T.: -0.002 min
Response: 5129228
Conc: 54.28 µg/ml

9.5.12

9

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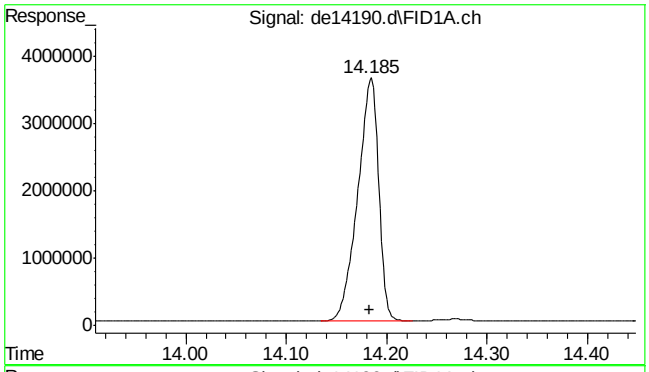
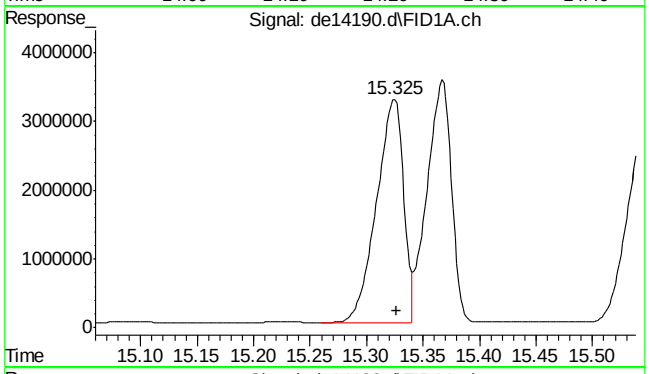


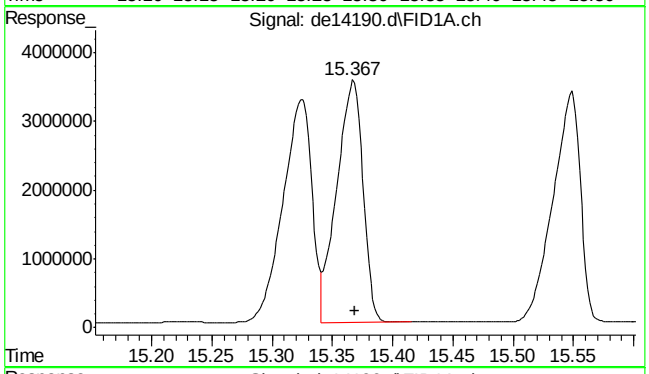
#18 benzo(a)pyrene

R.T.: 14.185 min
Delta R.T.: 0.002 min
Response: 5207886
Conc: 56.34 µg/ml



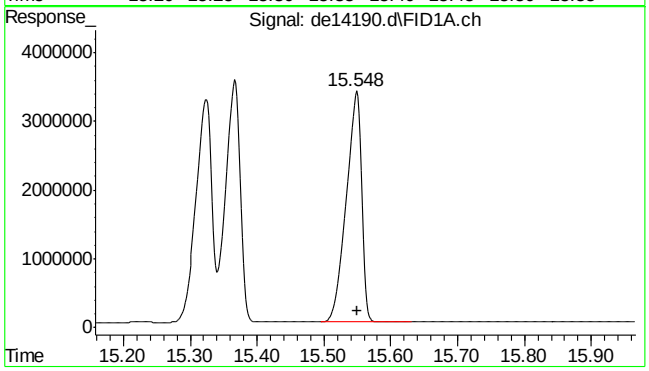
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.325 min
Delta R.T.: -0.002 min
Response: 5455742
Conc: 57.64 µg/ml



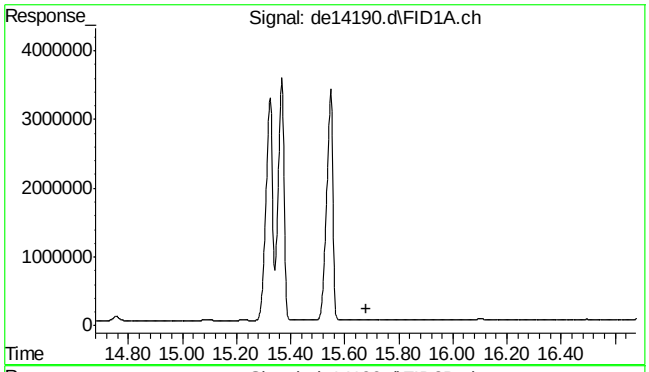
#20 dibenzo(ah)anthracene

R.T.: 15.367 min
Delta R.T.: -0.002 min
Response: 5298441
Conc: 57.97 µg/ml



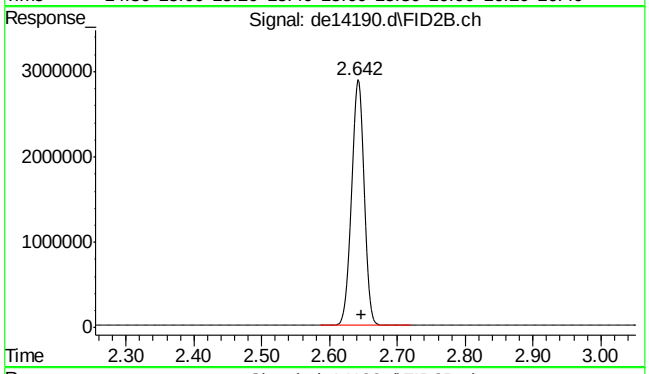
#21 benzo(ghi)perylene

R.T.: 15.548 min
Delta R.T.: -0.002 min
Response: 5343109
Conc: 58.00 µg/ml



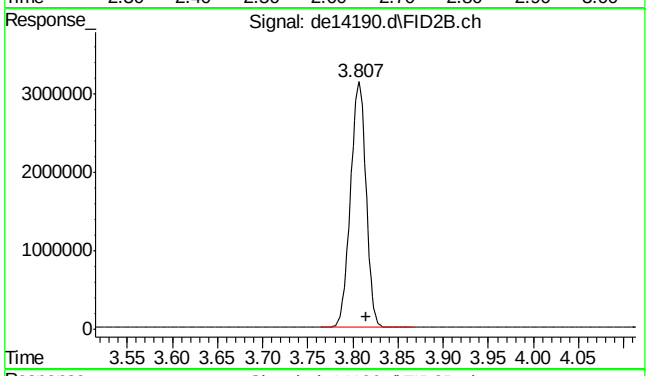
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



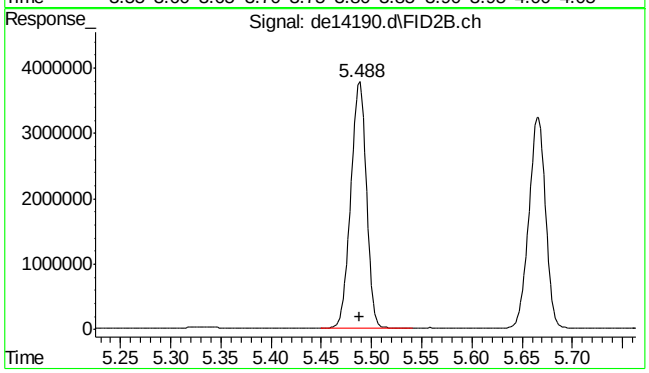
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 3739615
Conc: 50.62 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3788289
Conc: 51.28 µg/ml



#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4043765
Conc: 50.63 µg/ml

9.5.12

9

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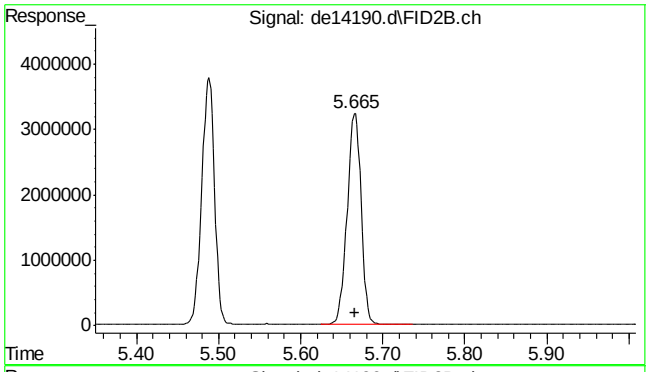
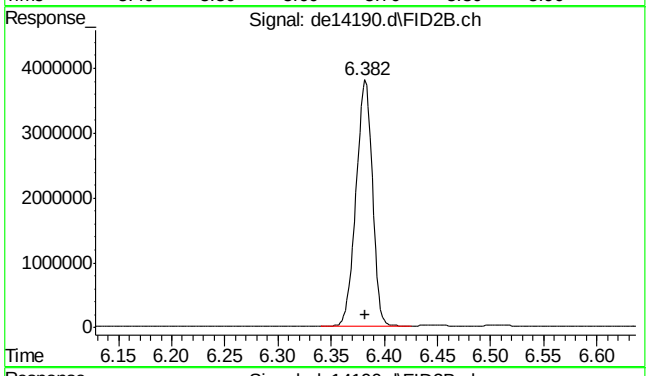


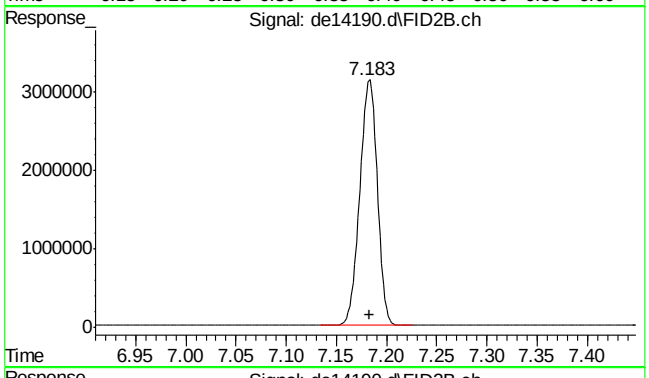
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.002 min
Response: 3779245
Conc: 51.16 µg/ml



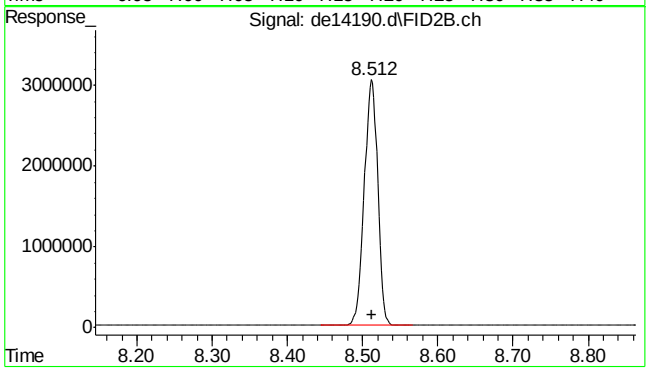
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: 0.000 min
Response: 4057958
Conc: 50.37 µg/ml



#30 c-14

R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 3780369
Conc: 51.17 µg/ml



#31 c-16

R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 3772734
Conc: 51.07 µg/ml

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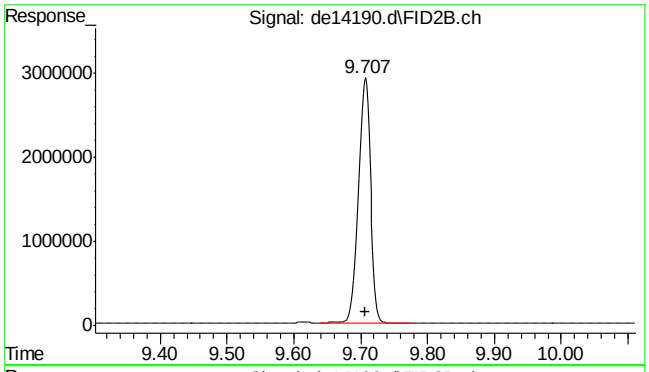
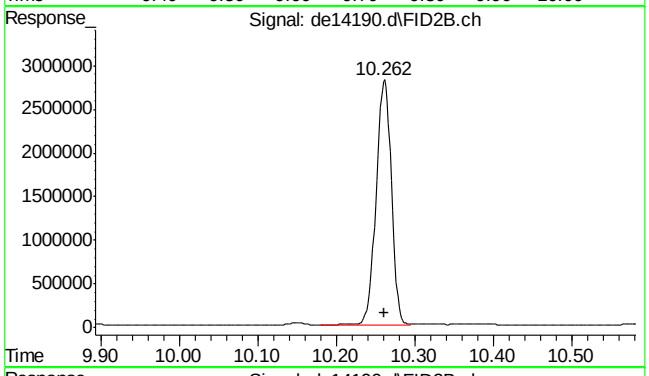


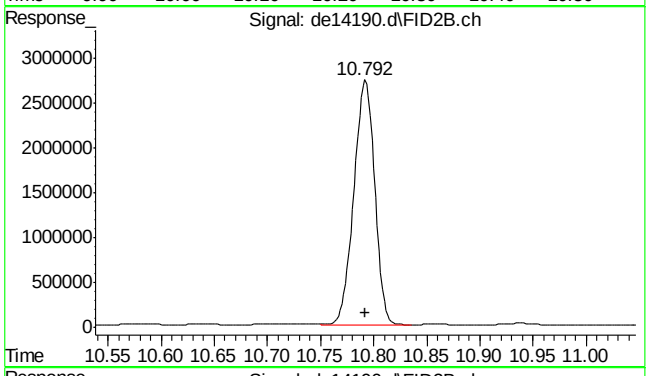
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3795175
Conc: 51.37 µg/ml



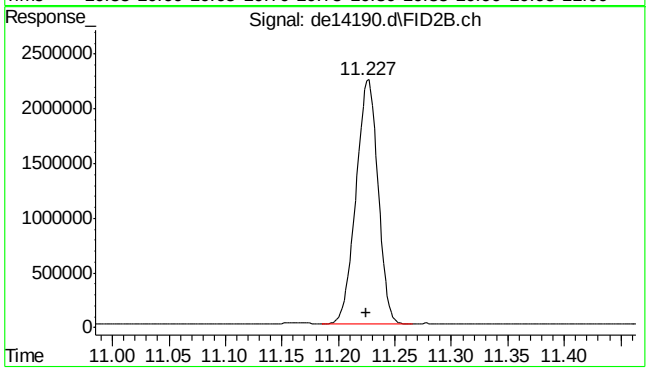
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 3780931
Conc: 56.60 µg/ml



#34 c-20

R.T.: 10.792 min
Delta R.T.: 0.000 min
Response: 3713216
Conc: 55.58 µg/ml



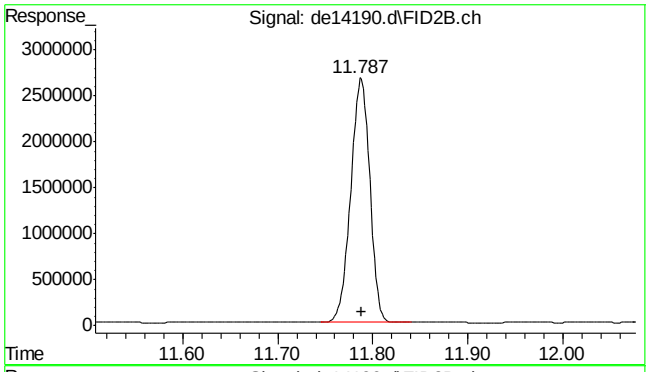
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: 0.002 min
Response: 3015662
Conc: 53.30 µg/ml

9.5.12

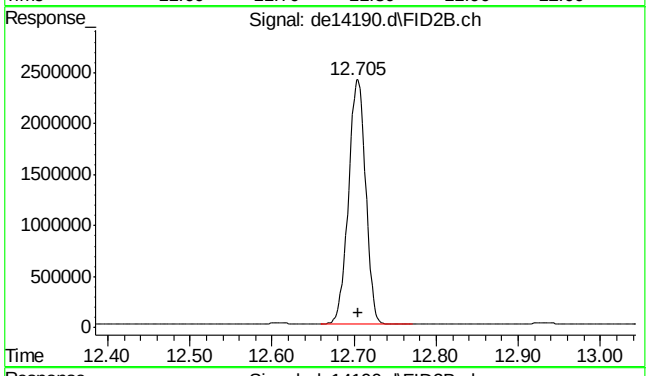
9

SGS ACCUTEST MC45897



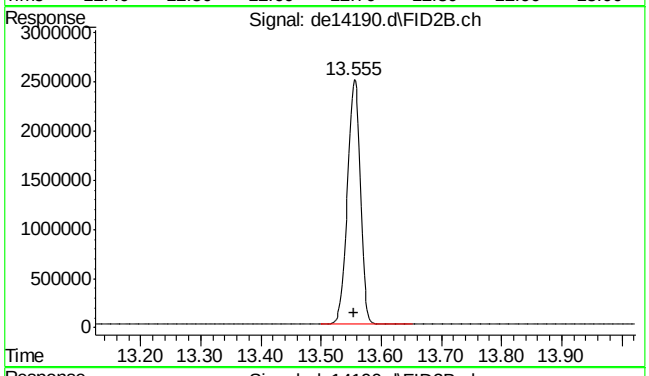
#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.002 min
Response: 3706157
Conc: 55.48 µg/ml



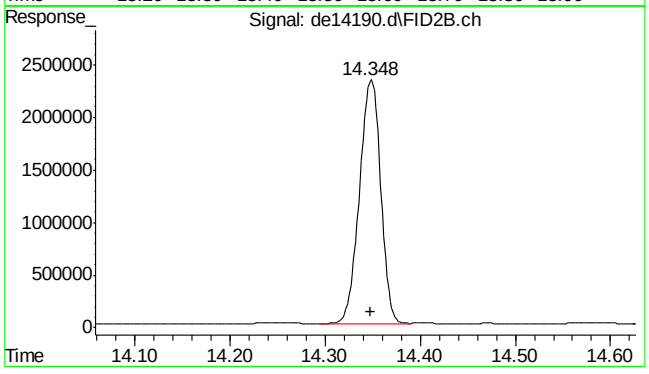
#37 c-24

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 3478196
Conc: 52.06 µg/ml



#38 c-26

R.T.: 13.555 min
Delta R.T.: 0.000 min
Response: 3707696
Conc: 55.50 µg/ml



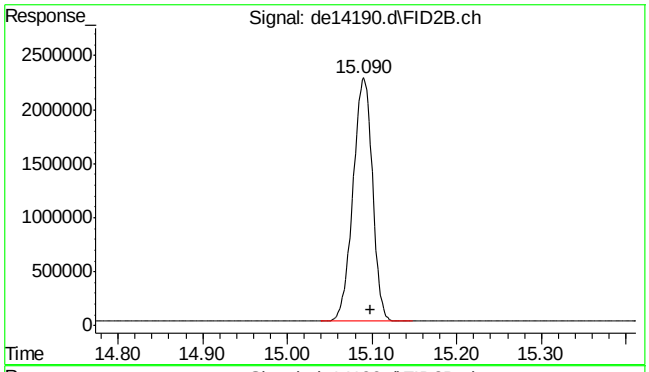
#39 c-28

R.T.: 14.348 min
Delta R.T.: 0.000 min
Response: 3592070
Conc: 53.77 µg/ml

9.5.12

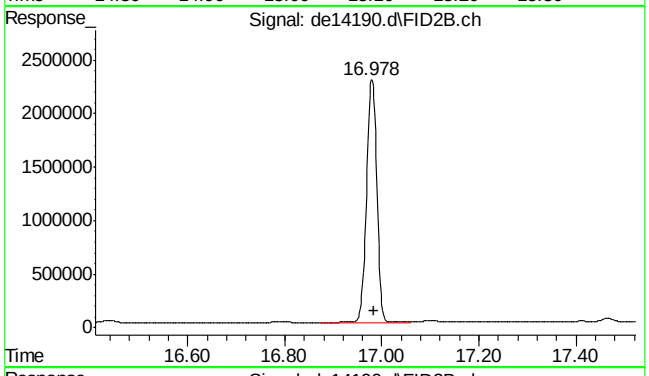
9

SGS ACCUTEST MC45897



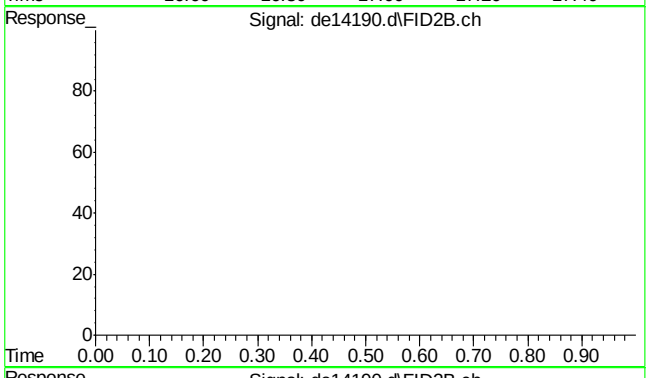
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3598009
Conc: 53.86 µg/ml m



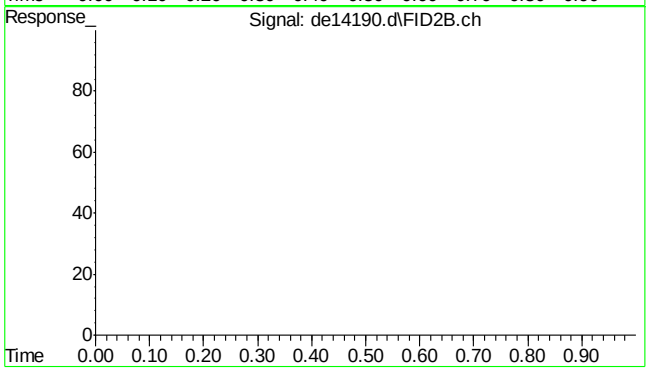
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3338826
Conc: 49.98 µg/ml m



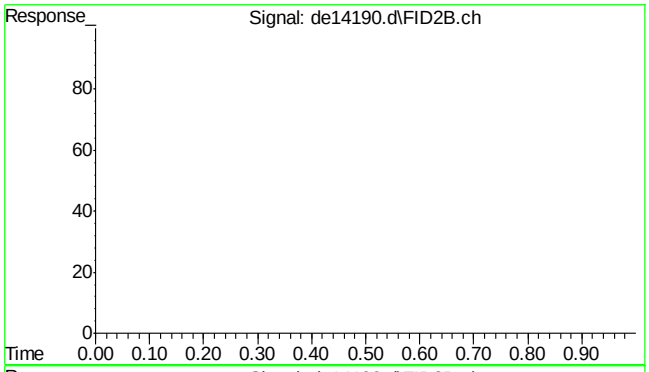
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



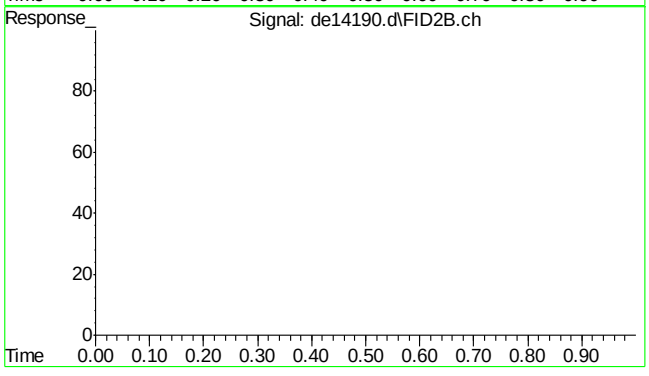
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```



#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

9.5.12

9

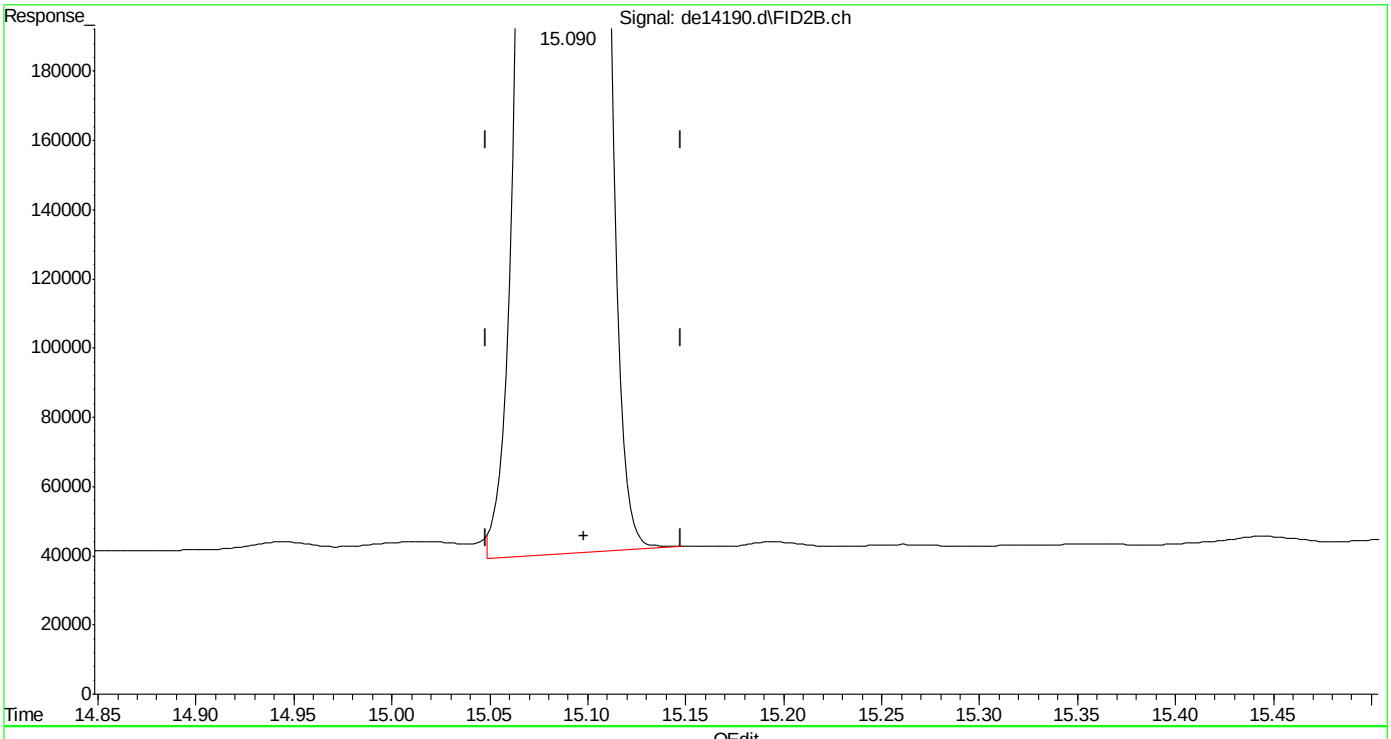
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14190.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 2:47 am
Operator : thomasa
Sample : ecc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 07:26:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.098min 53.991 µg/ml
response 3606916

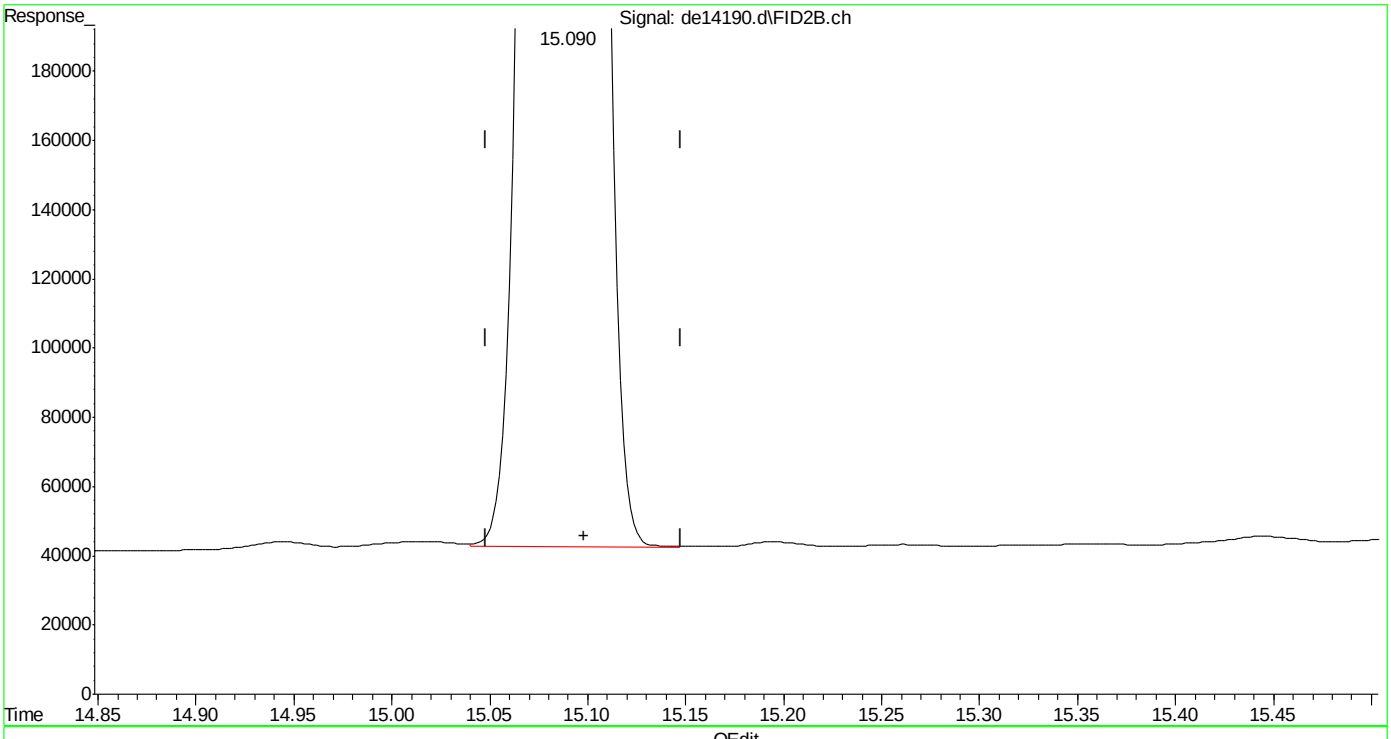
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14190.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 2:47 am
Operator : thomasa
Sample : ecc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 07:26:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(40) c-30 (h)
15.098min 53.857 µg/ml m
response 3598009

(+) = Expected Retention Time
EPH160519W.M Fri May 20 08:24:57 2016

SGS ACCUTEST MC45897

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/20/16 15:51

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 9:46 am
Operator : thomasa
Sample : ecc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:29:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.605	4872203	52.827 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 264.13%#	
6) s 2-bromonaphthalene	7.332	3289447	52.417 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 262.08%#	
11) s o-terphenyl	9.870	5428404	52.998 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 264.99%#	
35) s 1-chlorooctadecane	11.225	3057788	54.049 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 270.25%#	
Target Compounds			
2) naphthalene	5.150	5353837	51.908 µg/ml
3) 2-methylnaphthalene	6.050	5426062	52.946 µg/ml
5) acenaphthylene	7.165	5371003	53.389 µg/ml
7) acenaphthene	7.405	5626879	54.431 µg/ml
8) fluorene	8.050	5456261	53.721 µg/ml
9) phenanthrene	9.228	5415835	53.220 µg/ml
10) anthracene	9.287	5238774	54.004 µg/ml
12) fluoranthene	10.733	5308133	53.113 µg/ml
13) pyrene	10.988	5428279	53.500 µg/ml
14) benzo(a)anthracene	12.552	5049282	52.229 µg/mlm
15) chrysene	12.598	5085994	52.249 µg/mlm
16) benzo(B)fluoranthene	13.845	4973162	50.233 µg/ml
17) benzo(k)fluoranthene	13.878	5263040	55.692 µg/ml
18) benzo(a)pyrene	14.182	4885350	52.851 µg/ml
19) indeno(1,2,3-cd)pyrene	15.323	5113105	54.017 µg/ml
20) dibenzo(ah)anthracene	15.365	4948773	54.145 µg/ml
21) benzo(ghi)perylene	15.545	5003912	54.318 µg/ml
25) h c-9	2.647	3893948	52.712 µg/mlm
26) h c-10	3.815	3939649	53.331 µg/ml
27) naphthalene #2	5.488	4207871	52.682 µg/ml
28) c-12	5.667	3911390	52.948 µg/ml
29) 2-methylnaphthalene #2	6.382	4199748	52.128 µg/ml
30) c-14	7.183	3883040	52.564 µg/ml
31) c-16	8.512	3858699	52.235 µg/ml
32) c-18	9.707	3867680	52.356 µg/ml
33) c-19	10.260	3847465	57.591 µg/ml
34) c-20	10.792	3776762	56.533 µg/ml
36) c-22	11.787	3757976	56.252 µg/ml
37) c-24	12.703	3510694	52.550 µg/ml
38) c-26	13.555	3726605	55.782 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 9:46 am
Operator : thomasa
Sample : ecc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:29:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.348	3595724	53.823	µg/ml
40) h	c-30	15.098	3579910	53.586	µg/ml
41) h	c-36	16.983	3225875	48.287	µg/mlm

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

9.5.13

9

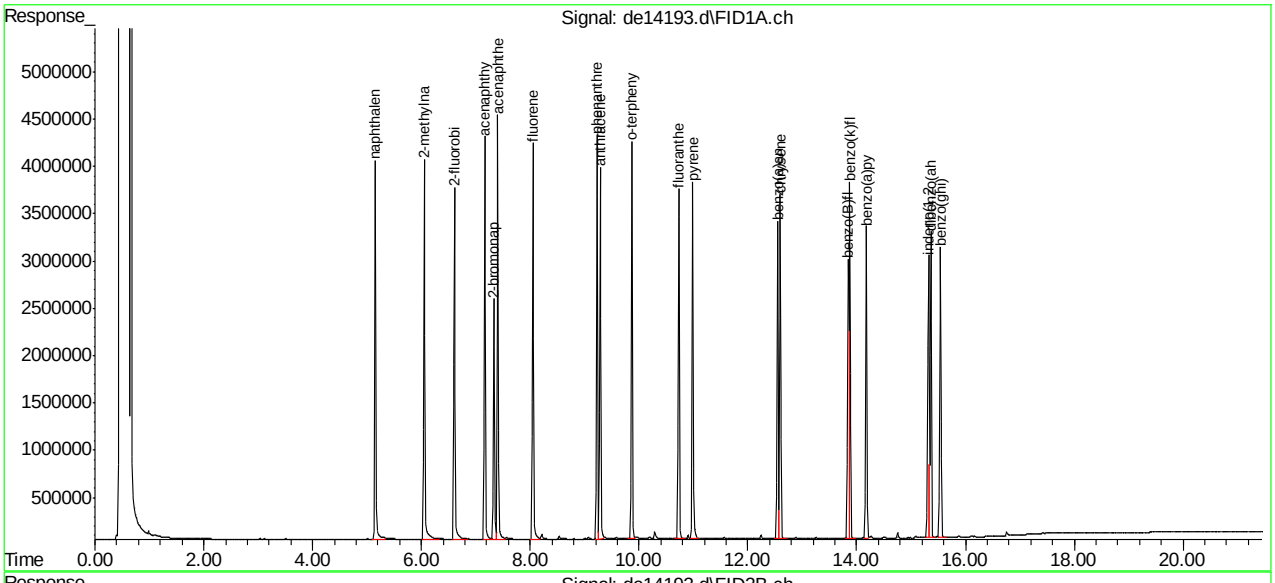
SGS ACCUTEST MC45897

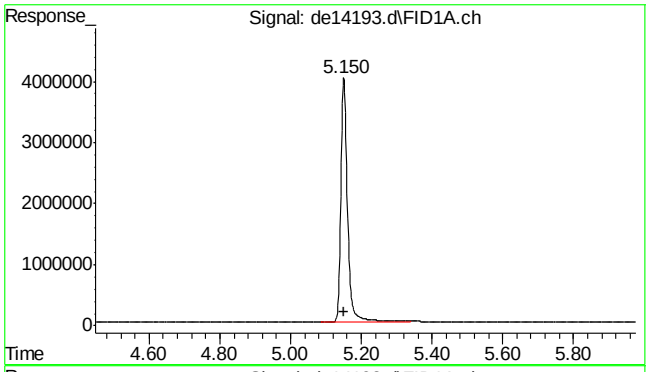
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 9:46 am
Operator : thomasa
Sample : ecc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 13:29:50 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

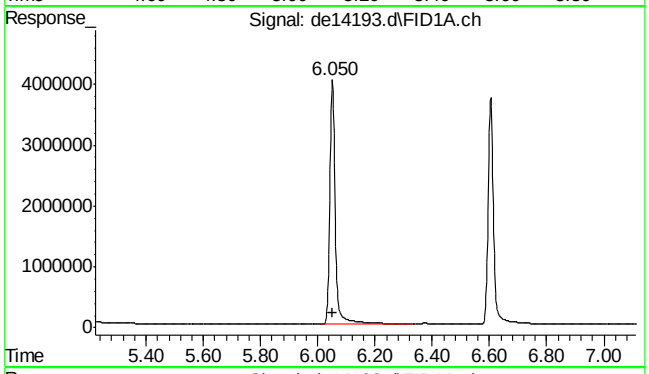
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





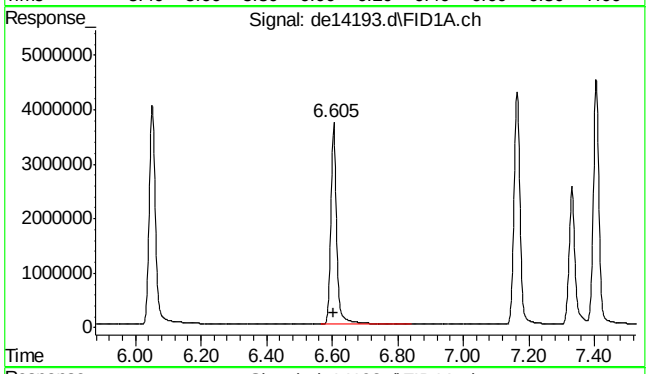
#2 naphthalene

R.T.: 5.150 min
Delta R.T.: 0.000 min
Response: 5353837
Conc: 51.91 µg/ml



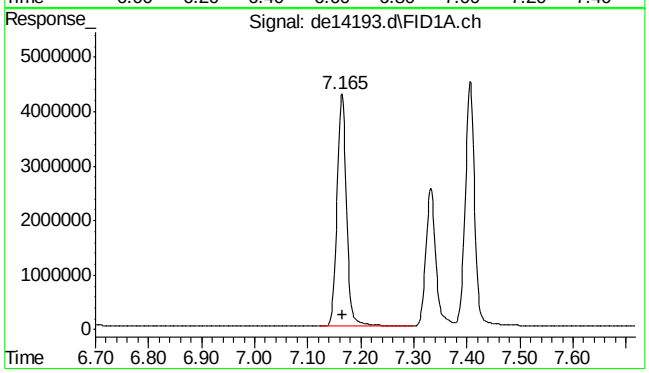
#3 2-methylnaphthalene

R.T.: 6.050 min
Delta R.T.: 0.000 min
Response: 5426062
Conc: 52.95 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.002 min
Response: 4872203
Conc: 52.83 µg/ml



#5 acenaphthylene

R.T.: 7.165 min
Delta R.T.: 0.000 min
Response: 5371003
Conc: 53.39 µg/ml

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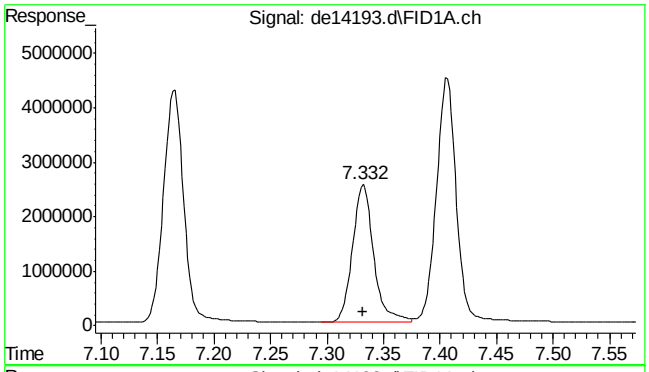
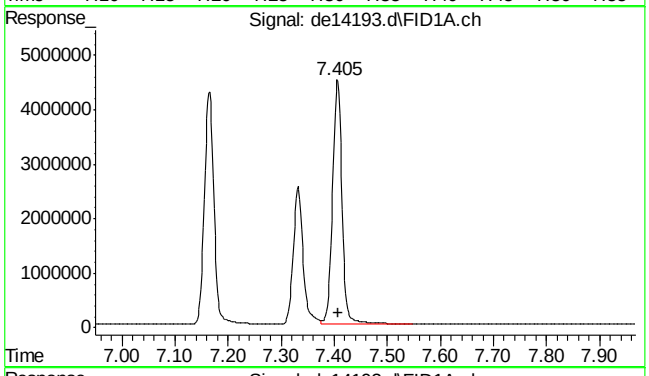


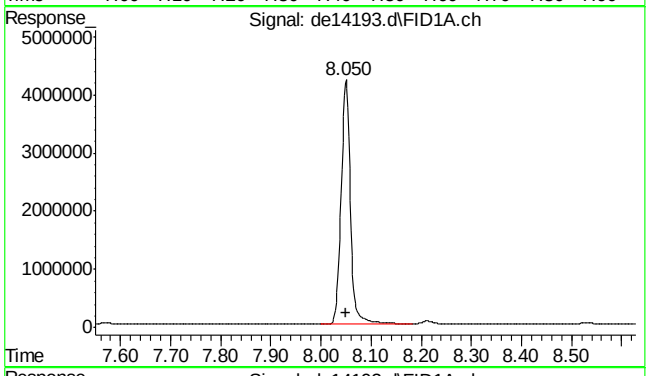
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 3289447
Conc: 52.42 µg/ml



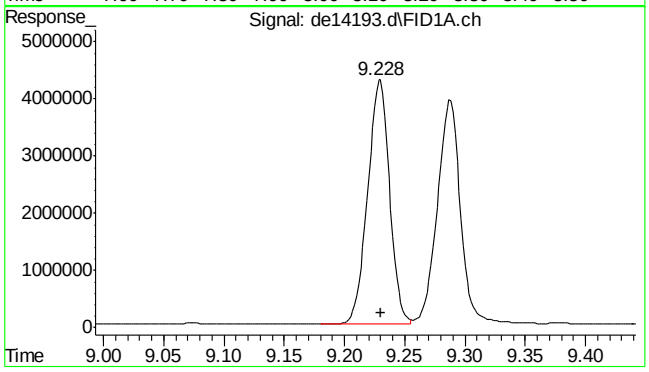
#7 acenaphthene

R.T.: 7.405 min
Delta R.T.: -0.002 min
Response: 5626879
Conc: 54.43 µg/ml



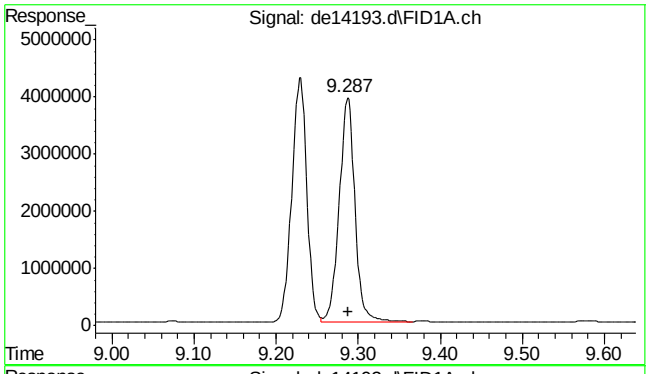
#8 fluorene

R.T.: 8.050 min
Delta R.T.: 0.000 min
Response: 5456261
Conc: 53.72 µg/ml



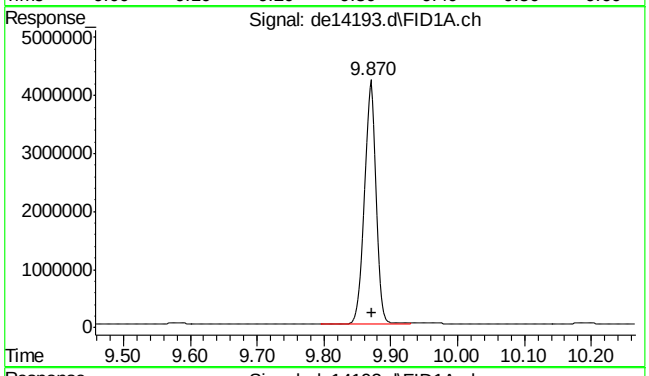
#9 phenanthrene

R.T.: 9.228 min
Delta R.T.: -0.002 min
Response: 5415835
Conc: 53.22 µg/ml



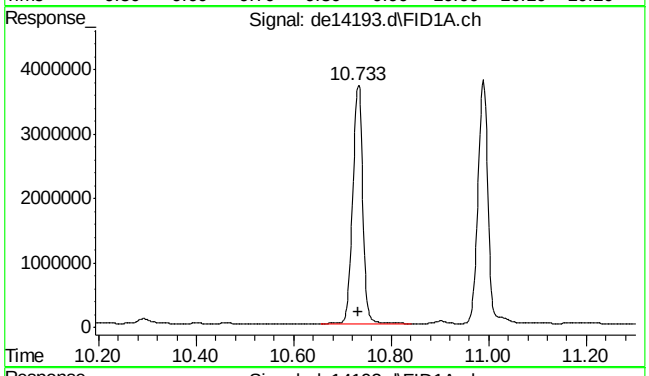
#10 anthracene

R.T.: 9.287 min
Delta R.T.: -0.002 min
Response: 5238774
Conc: 54.00 µg/ml



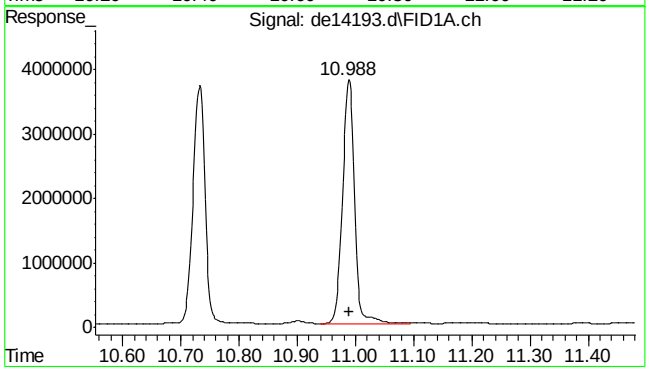
#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: -0.002 min
Response: 5428404
Conc: 53.00 µg/ml



#12 fluoranthene

R.T.: 10.733 min
Delta R.T.: 0.000 min
Response: 5308133
Conc: 53.11 µg/ml



#13 pyrene

R.T.: 10.988 min
Delta R.T.: -0.002 min
Response: 5428279
Conc: 53.50 µg/ml

9.5.13

9

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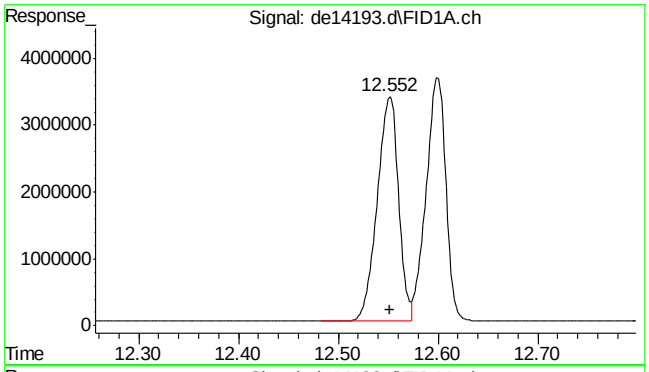
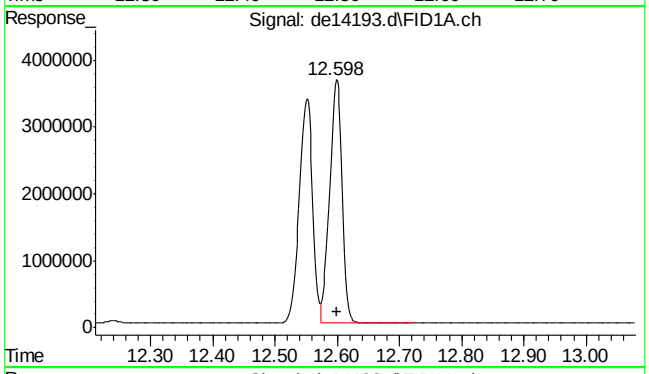


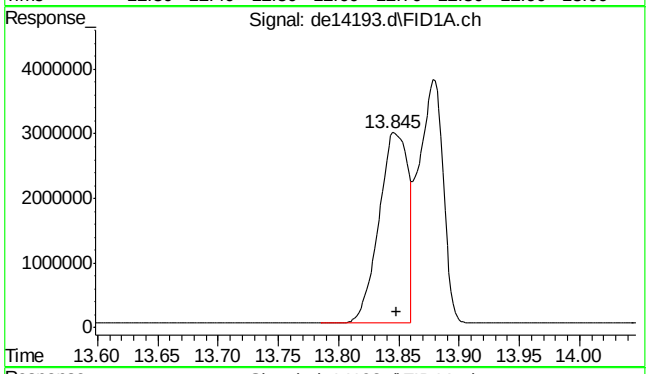
#14 benzo(a)anthracene

R.T.: 12.552 min
Delta R.T.: 0.000 min
Response: 5049282
Conc: 52.23 µg/ml m



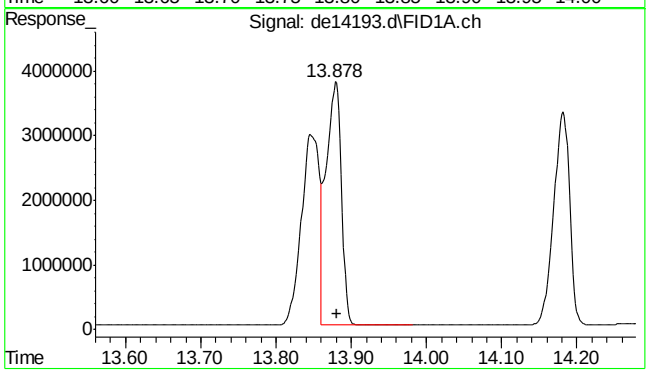
#15 chrysene

R.T.: 12.598 min
Delta R.T.: -0.002 min
Response: 5085994
Conc: 52.25 µg/ml m



#16 benzo(B)fluoranthene

R.T.: 13.845 min
Delta R.T.: -0.003 min
Response: 4973162
Conc: 50.23 µg/ml



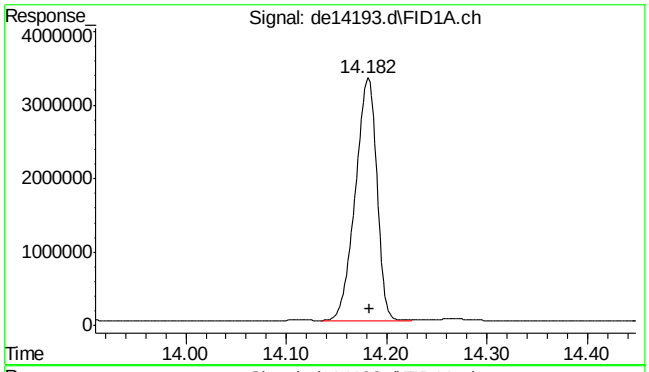
#17 benzo(k)fluoranthene

R.T.: 13.878 min
Delta R.T.: -0.003 min
Response: 5263040
Conc: 55.69 µg/ml

9.5.13

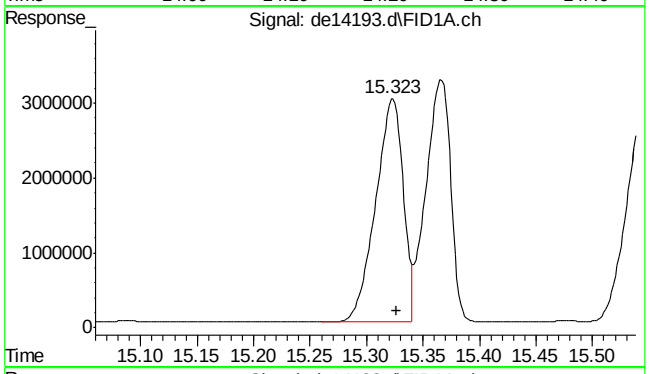
9

SGS ACCUTEST MC45897



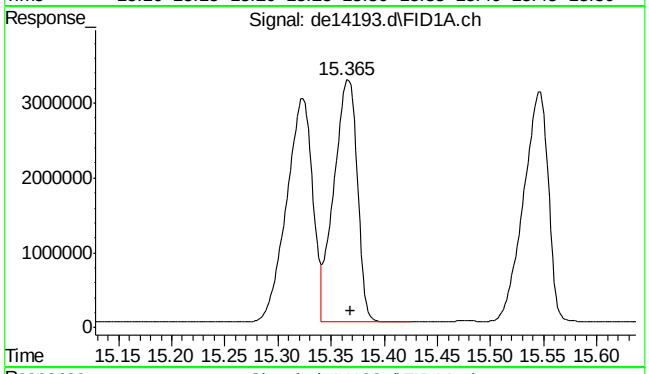
#18 benzo(a)pyrene

R.T.: 14.182 min
Delta R.T.: -0.002 min
Response: 4885350
Conc: 52.85 µg/ml



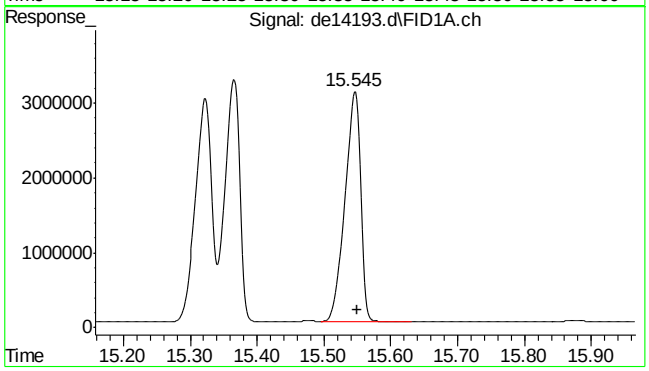
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.323 min
Delta R.T.: -0.003 min
Response: 5113105
Conc: 54.02 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.365 min
Delta R.T.: -0.003 min
Response: 4948773
Conc: 54.14 µg/ml



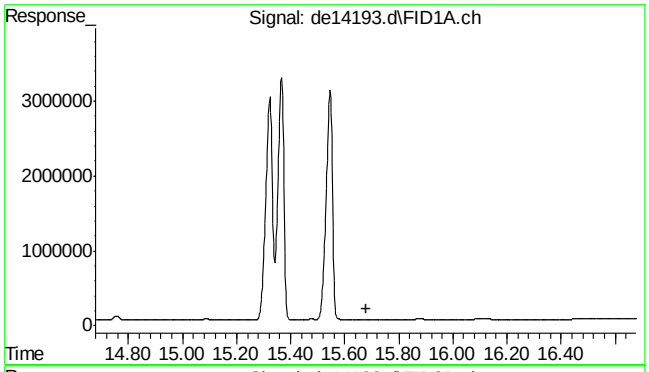
#21 benzo(ghi)perylene

R.T.: 15.545 min
Delta R.T.: -0.005 min
Response: 5003912
Conc: 54.32 µg/ml

9.5.13

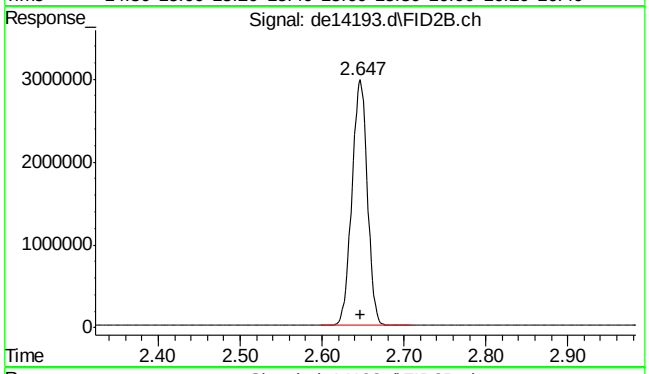
9

SGS ACCUTEST MC45897



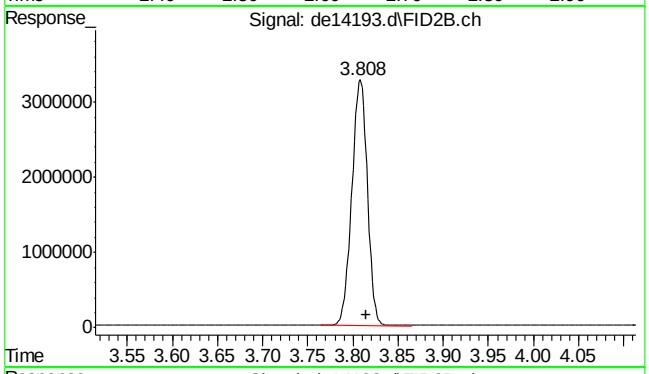
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.678 min
Response: 0
Conc: N.D.



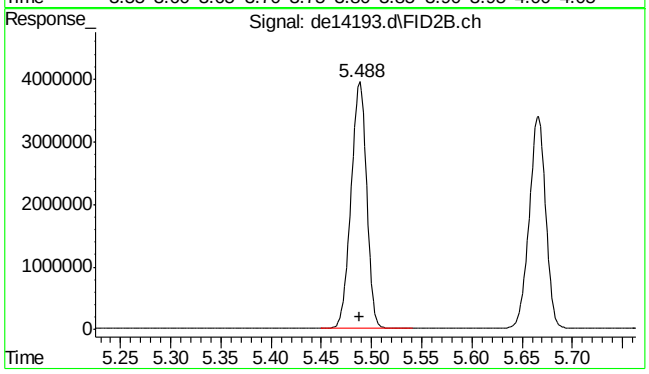
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 3893948
Conc: 52.71 µg/ml m



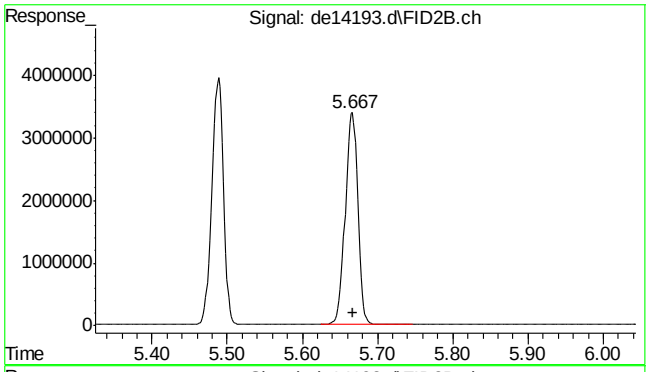
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3939649
Conc: 53.33 µg/ml



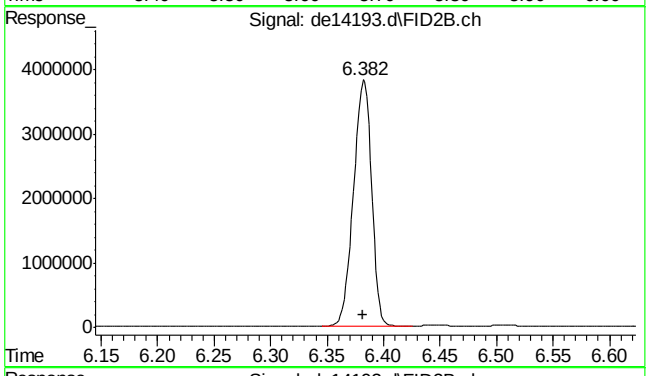
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4207871
Conc: 52.68 µg/ml



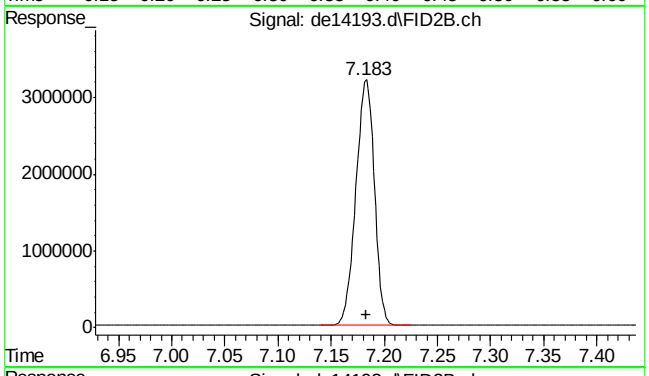
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 3911390
Conc: 52.95 µg/ml



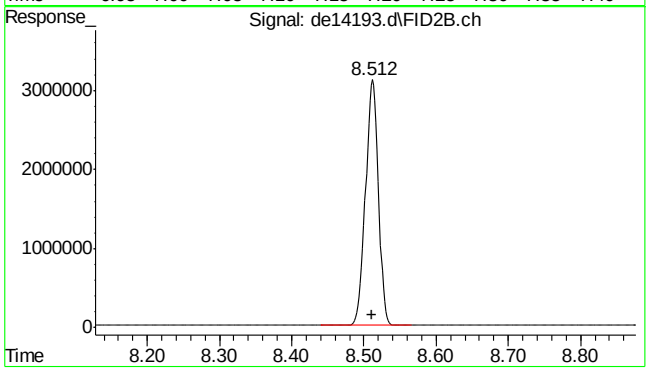
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: 0.000 min
Response: 4199748
Conc: 52.13 µg/ml



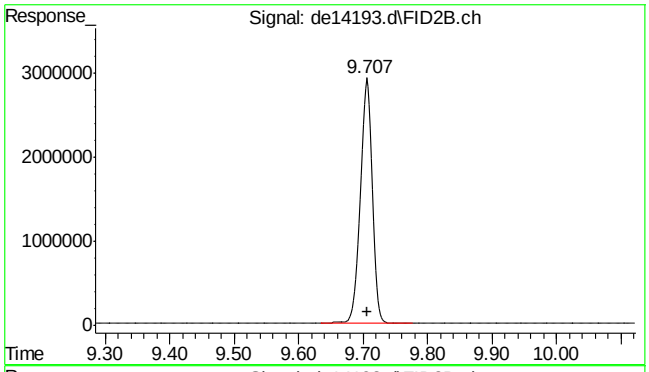
#30 c-14

R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 3883040
Conc: 52.56 µg/ml



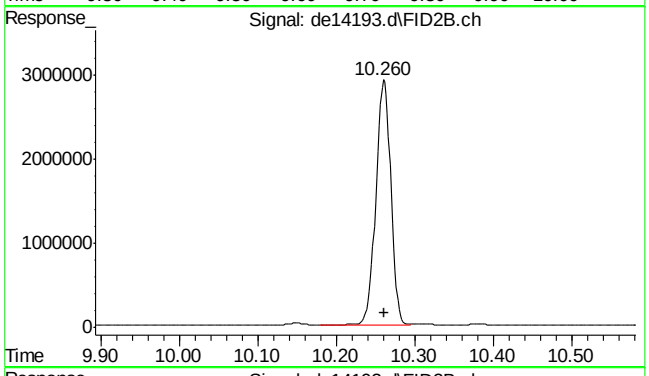
#31 c-16

R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 3858699
Conc: 52.23 µg/ml



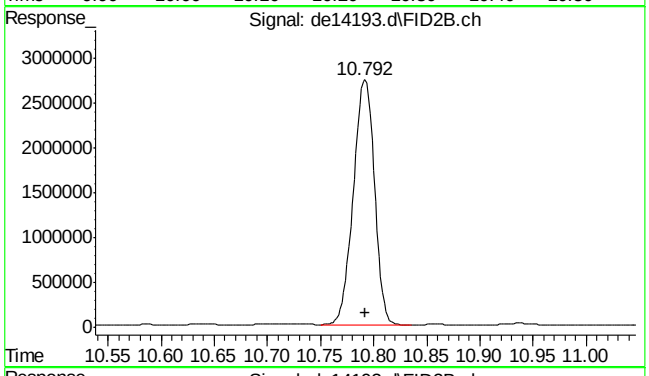
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3867680
Conc: 52.36 µg/ml



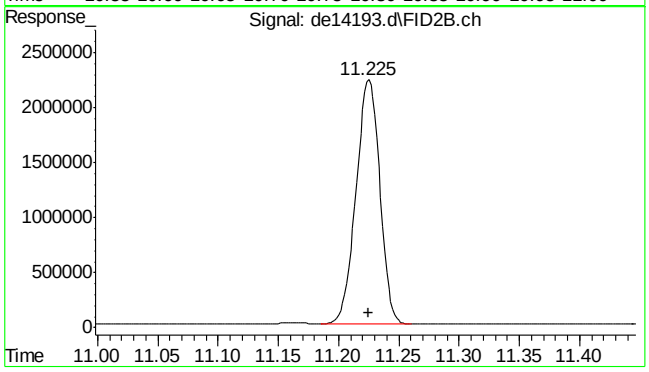
#33 c-19

R.T.: 10.260 min
Delta R.T.: -0.002 min
Response: 3847465
Conc: 57.59 µg/ml



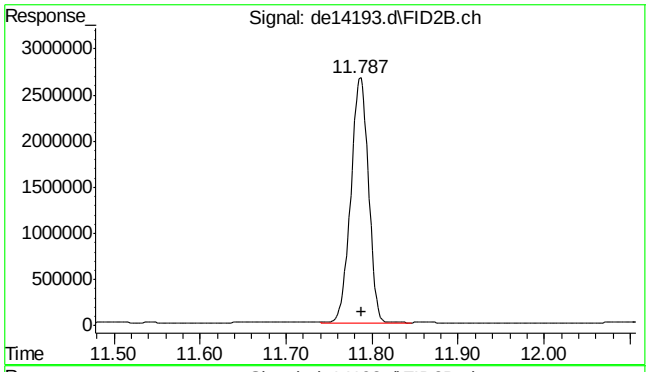
#34 c-20

R.T.: 10.792 min
Delta R.T.: 0.000 min
Response: 3776762
Conc: 56.53 µg/ml



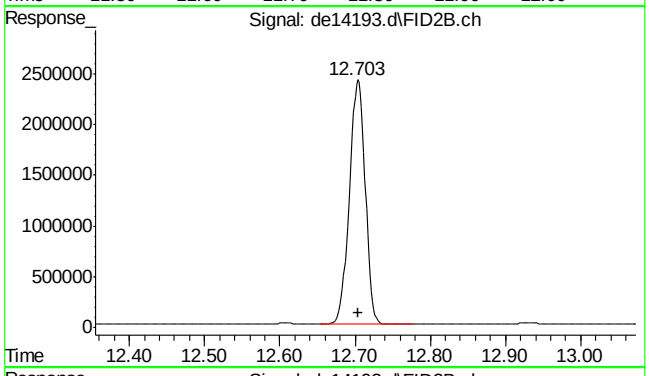
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: 0.000 min
Response: 3057788
Conc: 54.05 µg/ml



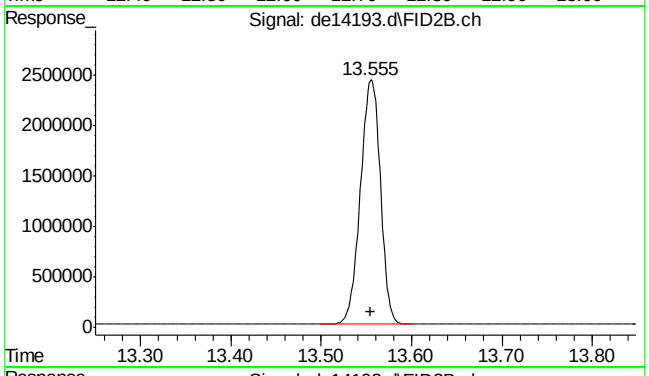
#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.002 min
Response: 3757976
Conc: 56.25 µg/ml



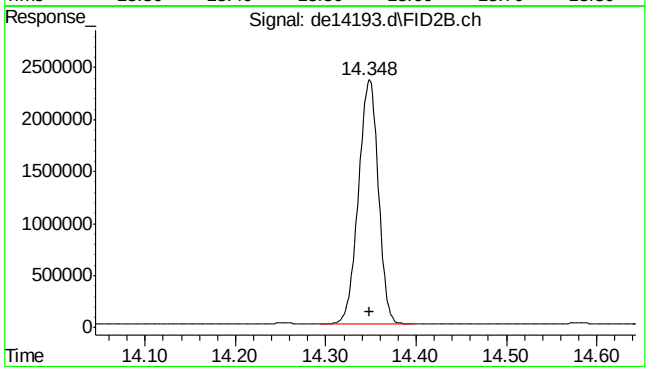
#37 c-24

R.T.: 12.703 min
Delta R.T.: -0.002 min
Response: 3510694
Conc: 52.55 µg/ml



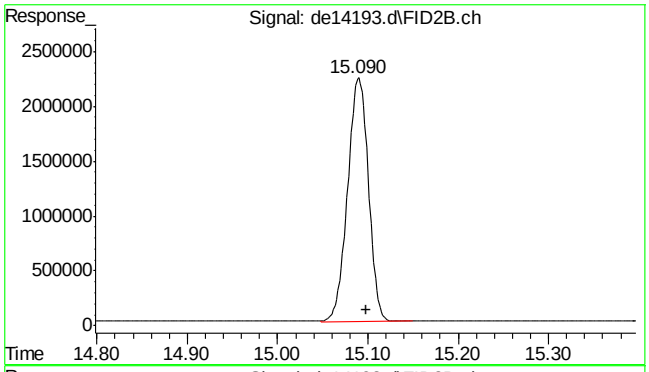
#38 c-26

R.T.: 13.555 min
Delta R.T.: 0.000 min
Response: 3726605
Conc: 55.78 µg/ml



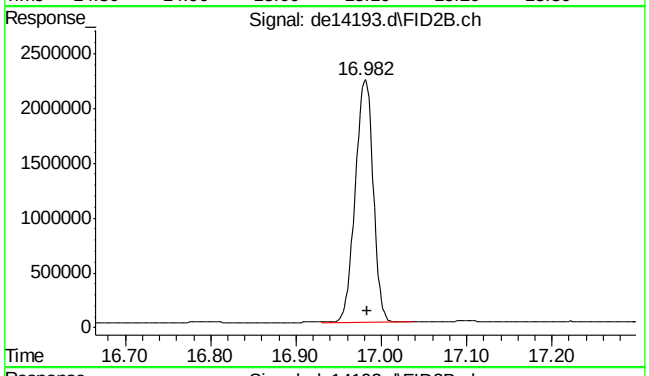
#39 c-28

R.T.: 14.348 min
Delta R.T.: 0.000 min
Response: 3595724
Conc: 53.82 µg/ml



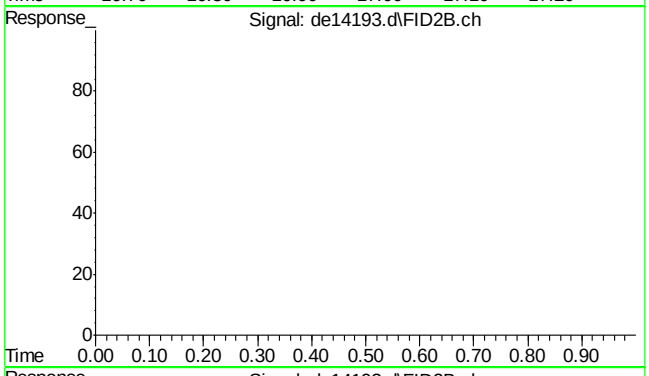
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3579910
Conc: 53.59 µg/ml



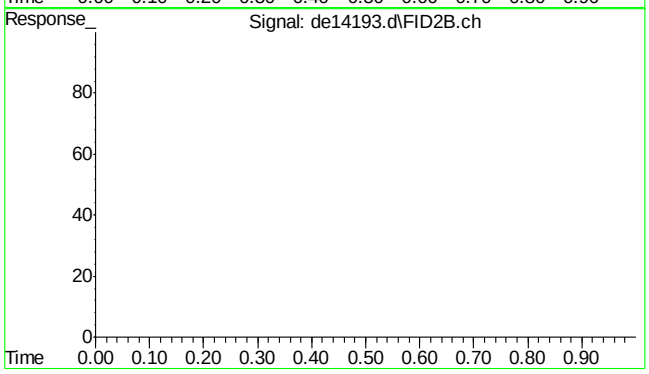
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3225875
Conc: 48.29 µg/ml m



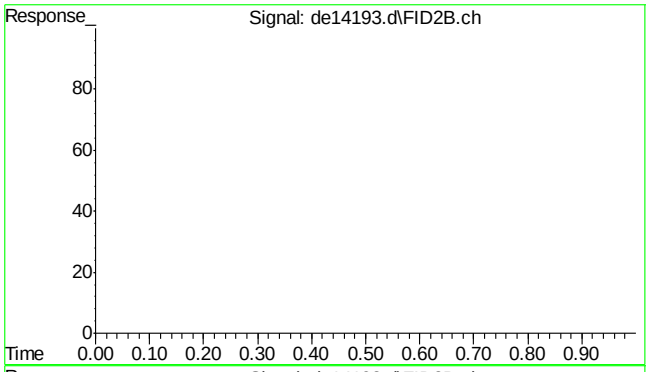
#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



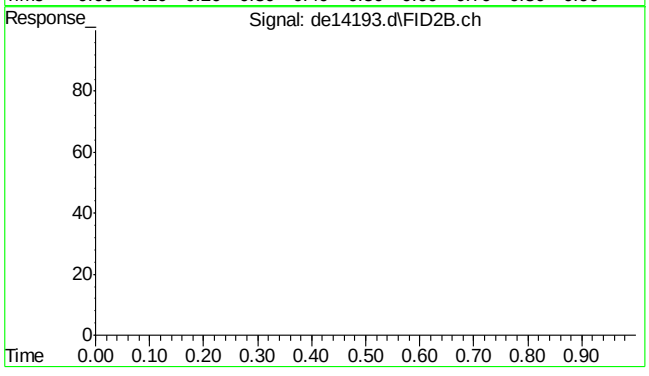
#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

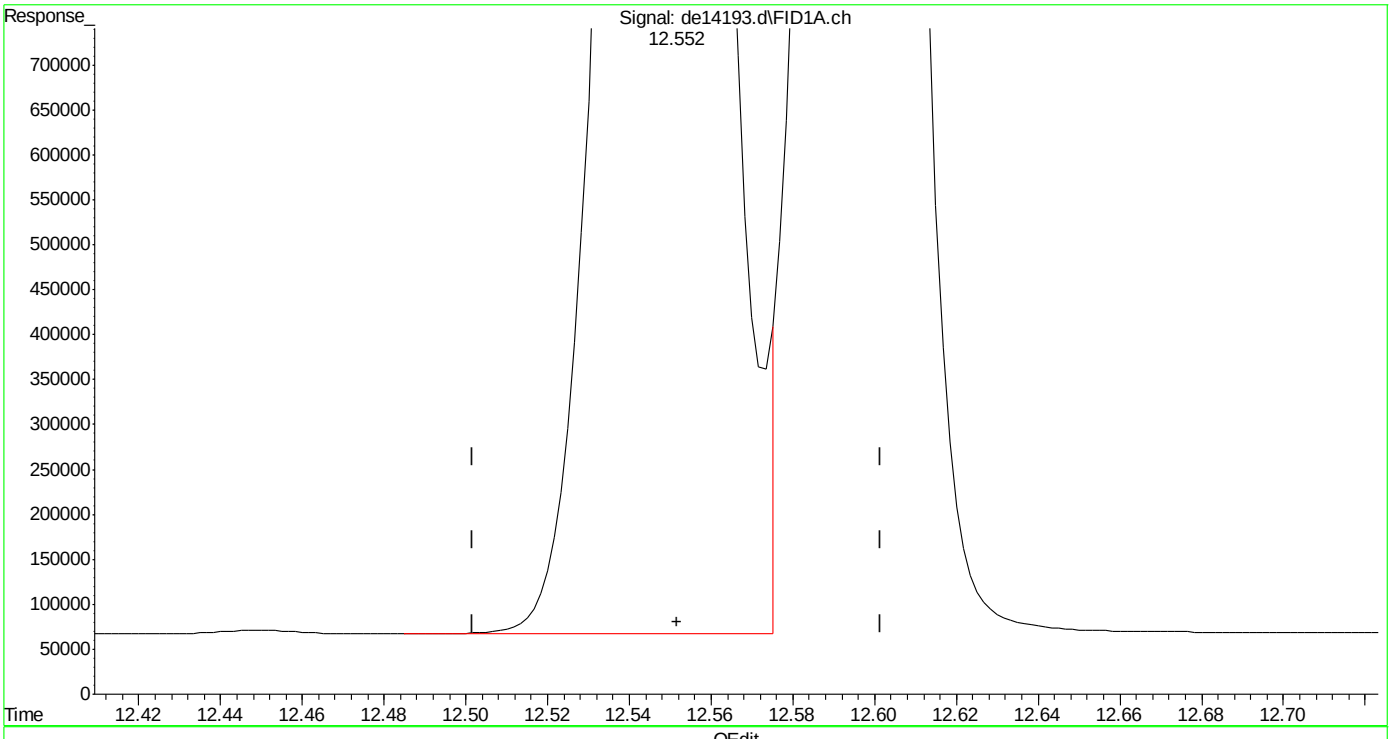
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 9:46 am
Operator : thomasa
Sample : ecc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 10:10:52 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.552min 52.580 µg/ml
response 5083183

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:28:54 2016

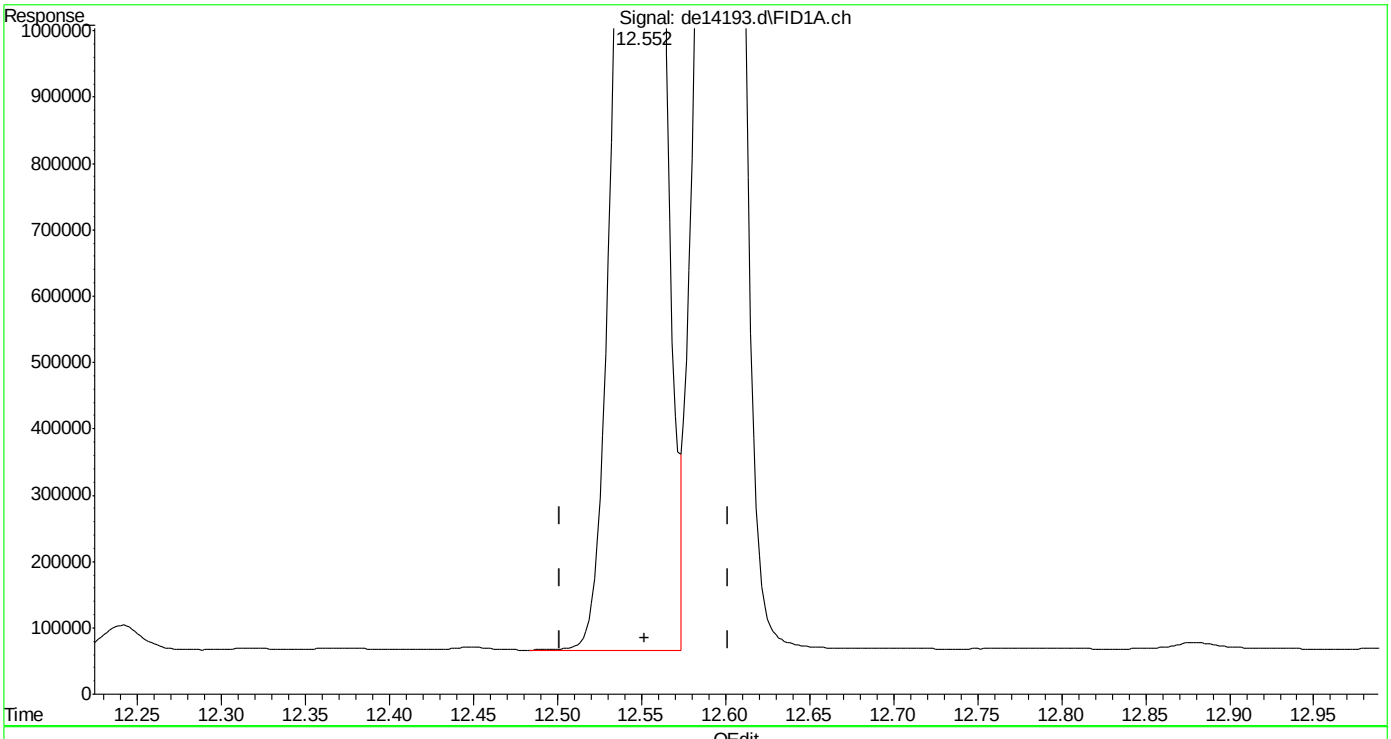
SGS ACCUTEST MC45897

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 9:46 am
Operator : thomasa
Sample : ecc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 10:10:52 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(14) benzo(a)anthracene
12.552min 52.229 µg/ml m
response 5049282

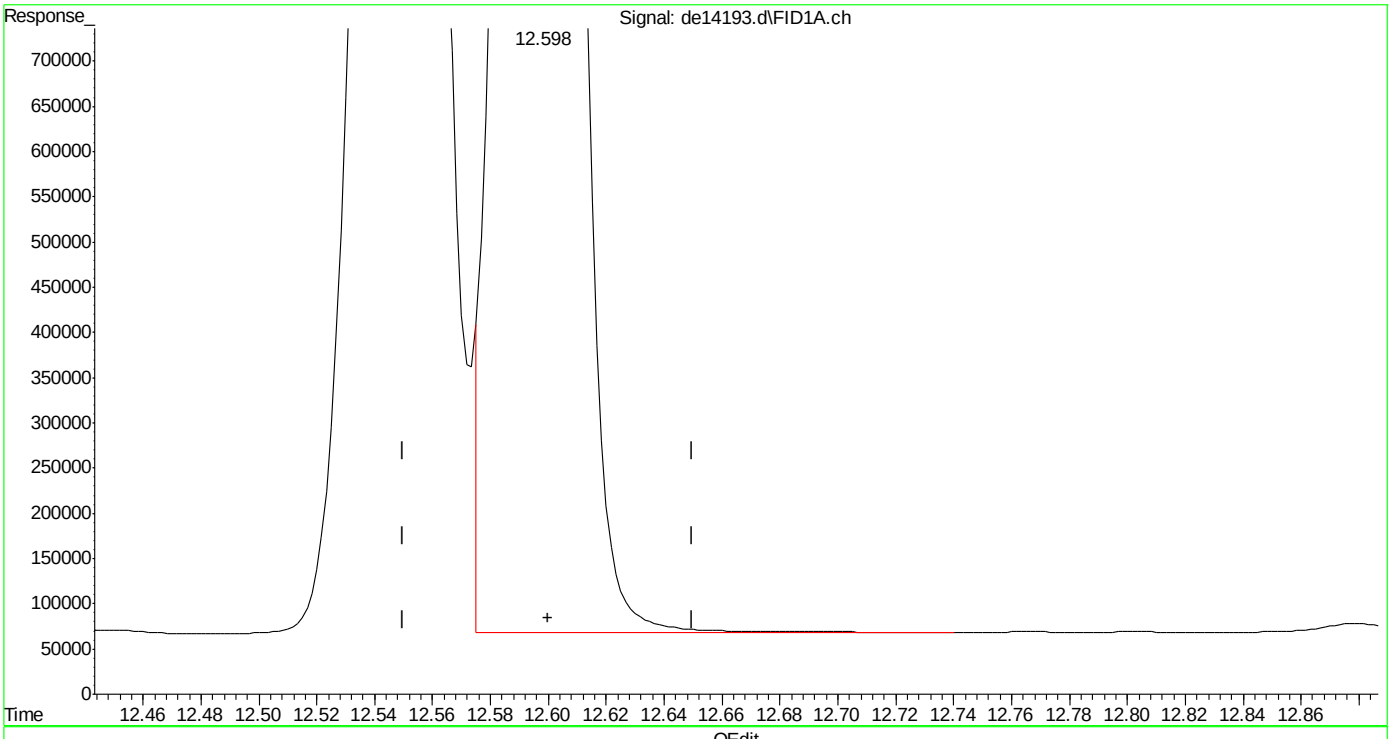
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 9:46 am
Operator : thomasa
Sample : ecc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 10:10:52 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.598min 51.797 µg/ml
response 5041962

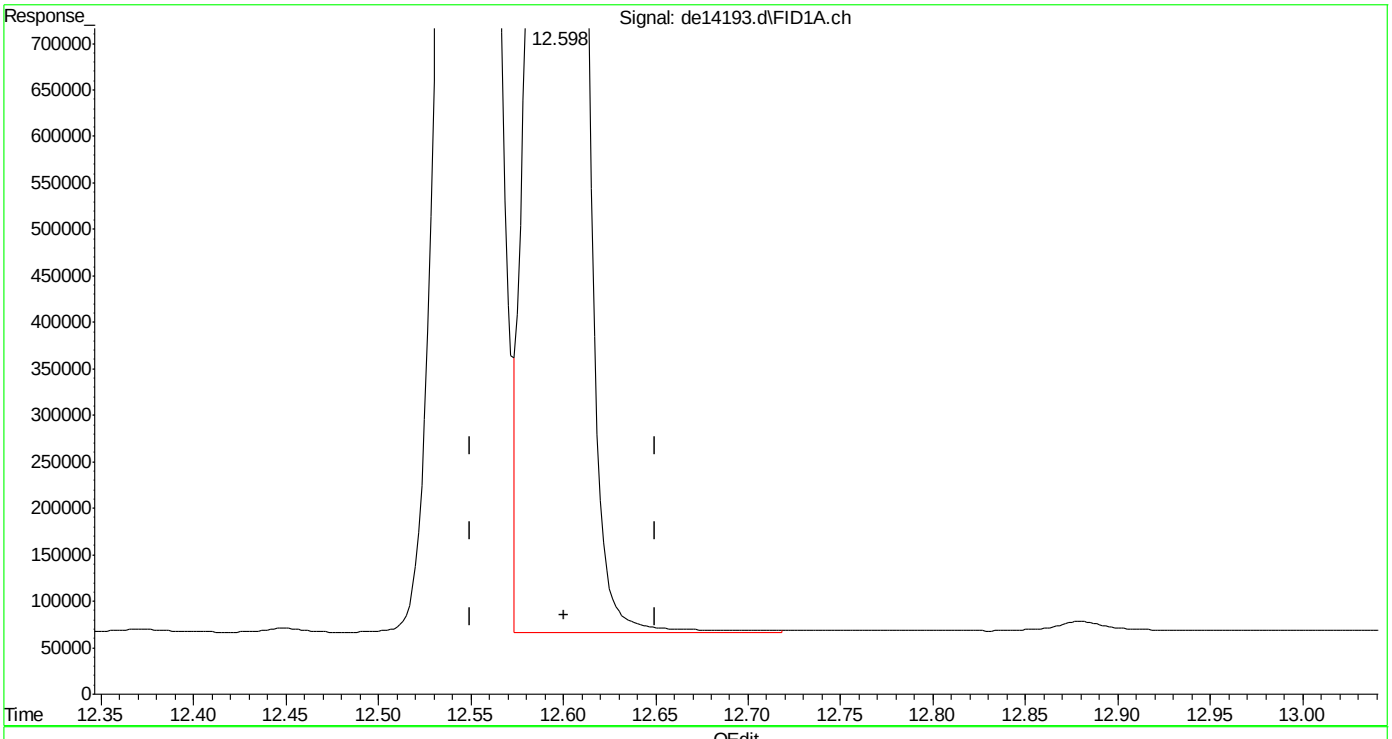
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160519EPH\
Data File : de14193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 20 May 2016 9:46 am
Operator : thomasa
Sample : ecc735-50,gde793
Misc : op47498,gde793,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 20 10:10:52 2016
Quant Method : C:\msdchem\1\METHODS\EPH160519W.M
Quant Title : BMAEPH-working method
QLast Update : Thu May 19 14:12:43 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(15) chrysene
12.598min 52.249 µg/ml m
response 5085994

(+) = Expected Retention Time
EPH160519W.M Fri May 20 13:29:20 2016

Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160523EPH\
Data File : de14212.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 23 May 2016 8:26 am
Operator : thomasa
Sample : cc735-50,gde795
Misc : op47576,gde795,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:02:58 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
4) s	2-fluorobiphenyl	6.603	4686277	50.811 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 254.06%#
6) s	2-bromonaphthalene	7.330	3176894	50.624 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 253.12%#
11) s	o-terphenyl	9.870	5351036	52.243 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 261.22%#
35) s	1-chlorooctadecane	11.225	3032790	53.607 µg/ml
Spiked Amount	20.000 Range	8 - 28	Recovery	= 268.03%#
Target Compounds				
2)	naphthalene	5.150	5160599	50.035 µg/ml
3)	2-methylnaphthalene	6.050	5192874	50.671 µg/ml
5)	acenaphthylene	7.163	5179619	51.486 µg/ml
7)	acenaphthene	7.405	5435343	52.578 µg/ml
8)	fluorene	8.048	5304302	52.224 µg/ml
9)	phenanthrene	9.228	5313278	52.212 µg/ml
10)	anthracene	9.287	5129496	52.877 µg/ml
12)	fluoranthene	10.732	5258432	52.615 µg/ml
13)	pyrene	10.987	5385552	53.079 µg/ml
14)	benzo(a)anthracene	12.548	5006855	51.791 µg/ml
15)	chrysene	12.597	5117656	52.574 µg/ml
16)	benzo(B)fluoranthene	13.848	5116733	51.683 µg/ml
17)	benzo(k)fluoranthene	13.877	5157742	54.578 µg/ml
18)	benzo(a)pyrene	14.182	4899604	53.006 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.323	5166497	54.581 µg/ml
20)	dibenzo(ah)anthracene	15.365	4911505	53.737 µg/ml
21)	benzo(ghi)perylene	15.545	5020428	54.497 µg/ml
25) h	c-9	2.647	3896964	52.753 µg/mlm
26) h	c-10	3.815	3942927	53.375 µg/ml
27)	naphthalene #2	5.488	4200943	52.596 µg/ml
28)	c-12	5.665	3906646	52.884 µg/ml
29)	2-methylnaphthalene #2	6.382	4192839	52.042 µg/ml
30)	c-14	7.183	3877628	52.491 µg/ml
31)	c-16	8.512	3852034	52.145 µg/ml
32)	c-18	9.705	3854640	52.180 µg/ml
33)	c-19	10.262	3826394	57.276 µg/ml
34)	c-20	10.792	3753255	56.181 µg/ml
36)	c-22	11.787	3721732	55.709 µg/ml
37)	c-24	12.705	3476424	52.037 µg/ml
38)	c-26	13.555	3684804	55.156 µg/ml
39)	c-28	14.348	3543553	53.042 µg/ml
40) h	c-30	15.098	3538745	52.970 µg/ml
41) h	c-36	16.983	3160817	47.313 µg/mlm

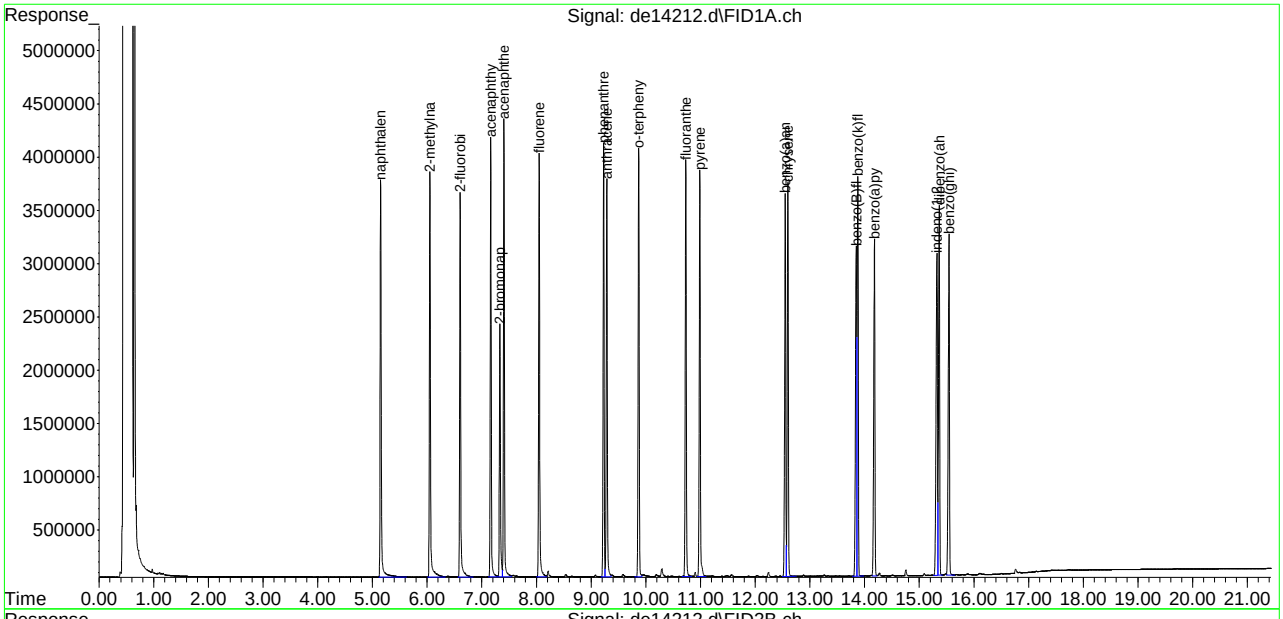
(f)=RT Delta > 1/2 Window (m)=manual int.

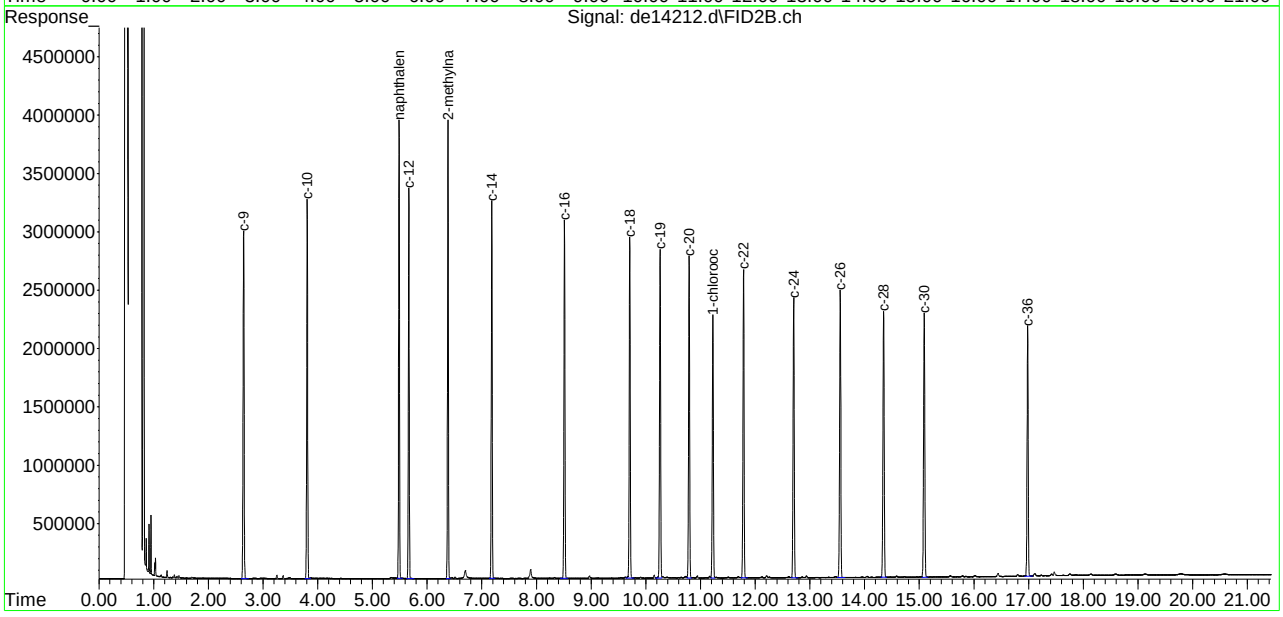
Quantitation Report (QT Reviewed)

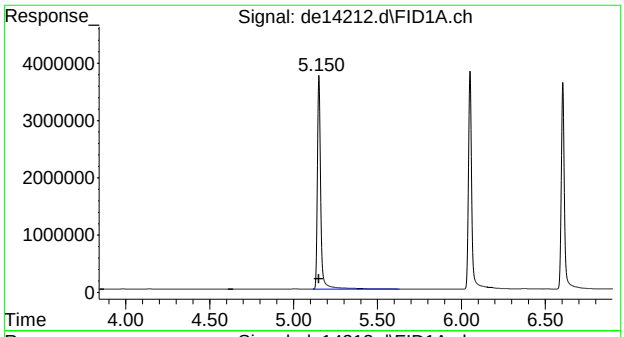
Data Path : G:\1\DATA\DE160523EPH\
Data File : de14212.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 23 May 2016 8:26 am
Operator : thomasa
Sample : cc735-50,gde795
Misc : op47576,gde795,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:02:58 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

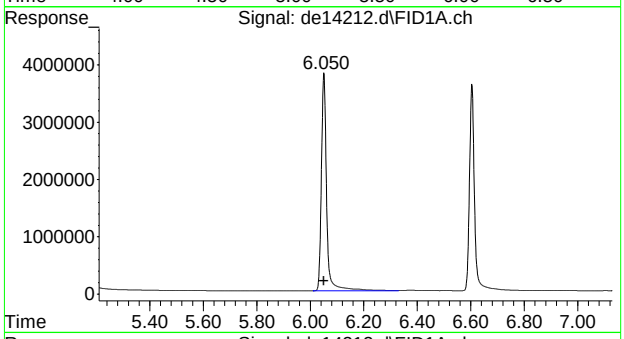






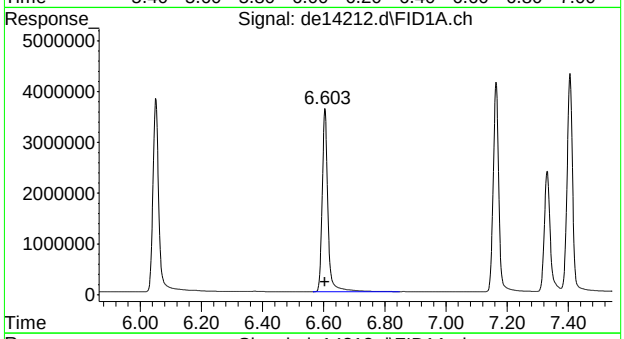
#2 naphthalene

R.T.: 5.150 min
Delta R.T.: 0.000 min
Response: 5160599
Conc: 50.03 µg/ml



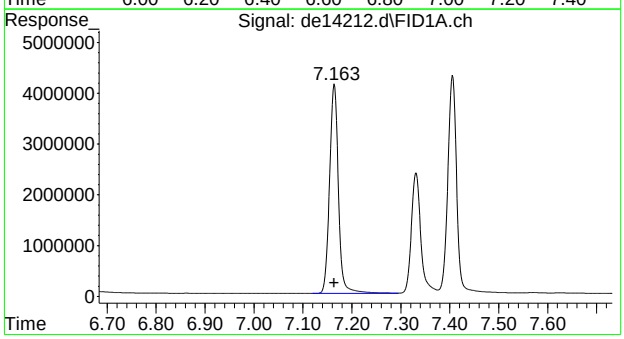
#3 2-methylnaphthalene

R.T.: 6.050 min
Delta R.T.: 0.000 min
Response: 5192874
Conc: 50.67 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.603 min
Delta R.T.: 0.000 min
Response: 4686277
Conc: 50.81 µg/ml



#5 acenaphthylene

R.T.: 7.163 min
Delta R.T.: 0.000 min
Response: 5179619
Conc: 51.49 µg/ml

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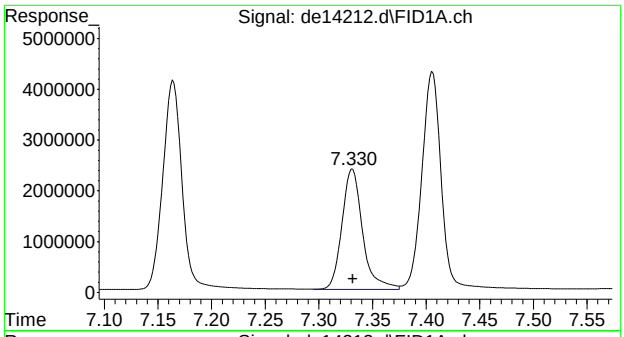
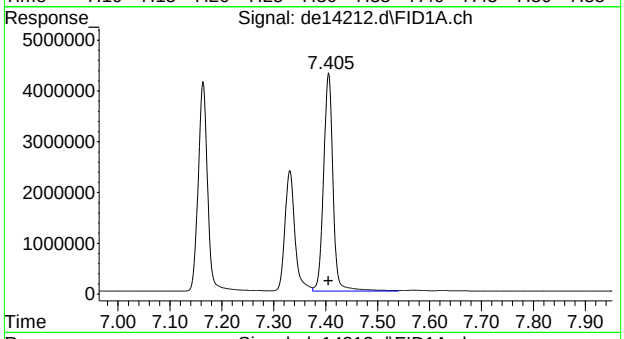


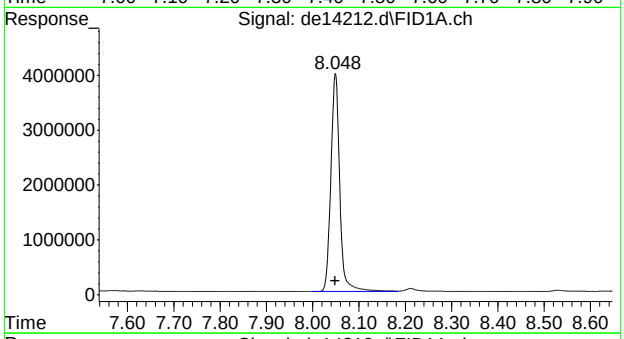
#6 2-bromonaphthalene

R.T.: 7.330 min
Delta R.T.: -0.002 min
Response: 3176894
Conc: 50.62 µg/ml



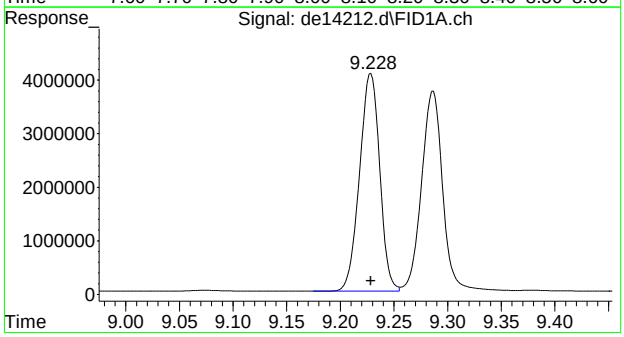
#7 acenaphthene

R.T.: 7.405 min
Delta R.T.: 0.000 min
Response: 5435343
Conc: 52.58 µg/ml



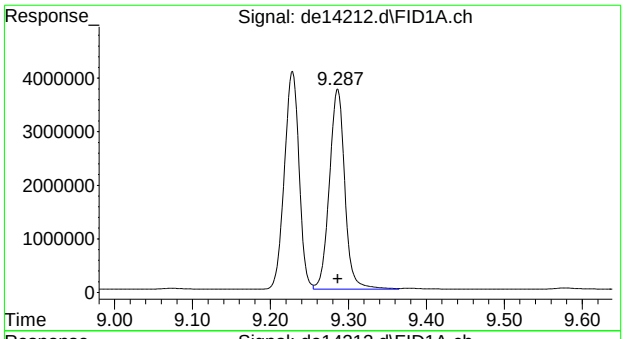
#8 fluorene

R.T.: 8.048 min
Delta R.T.: 0.000 min
Response: 5304302
Conc: 52.22 µg/ml



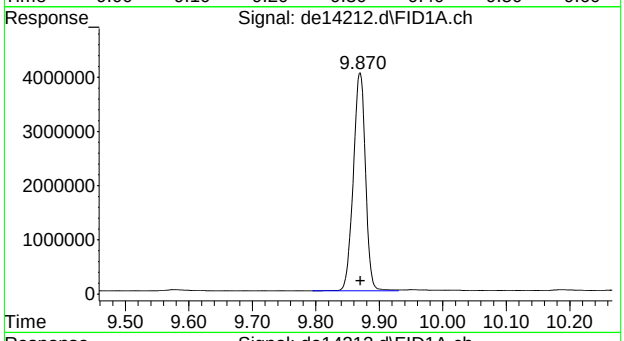
#9 phenanthrene

R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 5313278
Conc: 52.21 µg/ml



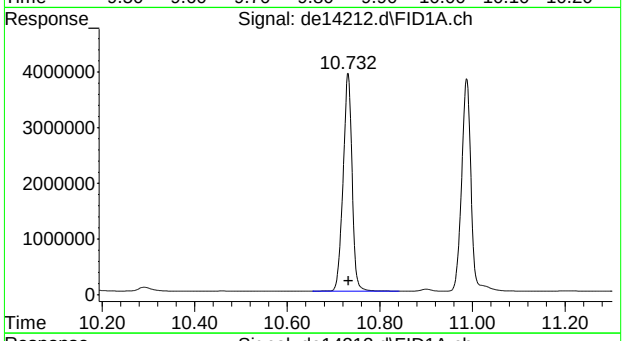
#10 anthracene

R.T.: 9.287 min
Delta R.T.: 0.000 min
Response: 5129496
Conc: 52.88 µg/ml



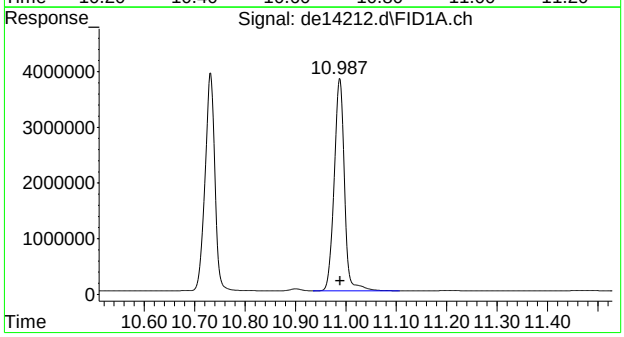
#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: 0.000 min
Response: 5351036
Conc: 52.24 µg/ml



#12 fluoranthene

R.T.: 10.732 min
Delta R.T.: 0.000 min
Response: 5258432
Conc: 52.62 µg/ml



#13 pyrene

R.T.: 10.987 min
Delta R.T.: -0.002 min
Response: 5385552
Conc: 53.08 µg/ml

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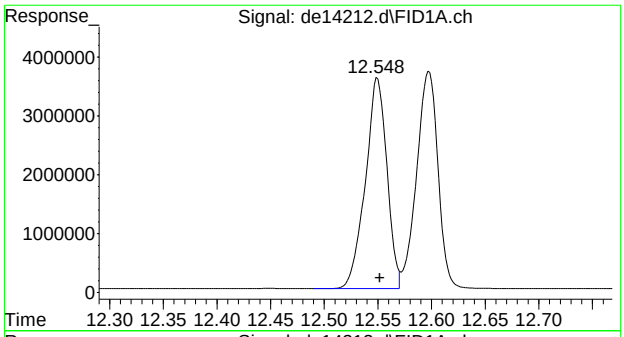
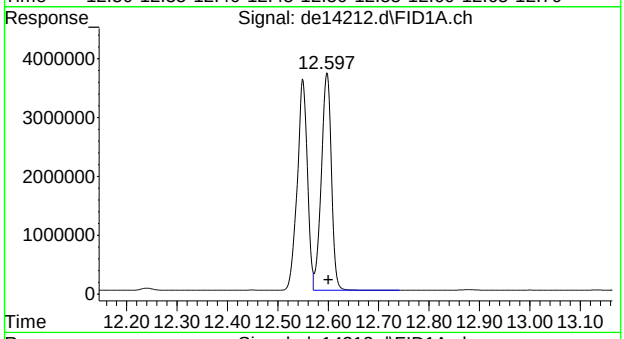


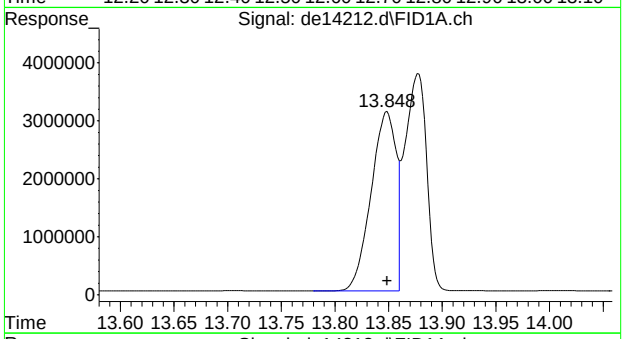
#14 benzo(a)anthracene

R.T.: 12.548 min
Delta R.T.: -0.003 min
Response: 5006855
Conc: 51.79 µg/ml



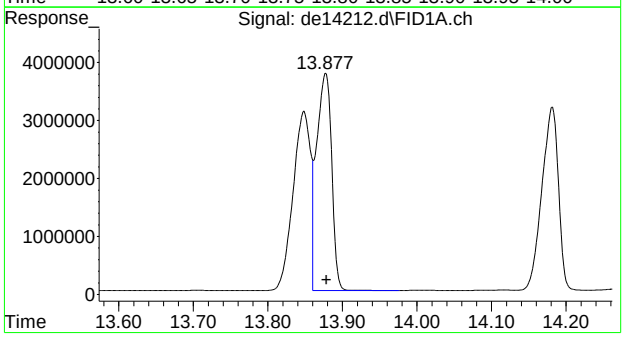
#15 chrysene

R.T.: 12.597 min
Delta R.T.: -0.003 min
Response: 5117656
Conc: 52.57 µg/ml



#16 benzo(B)fluoranthene

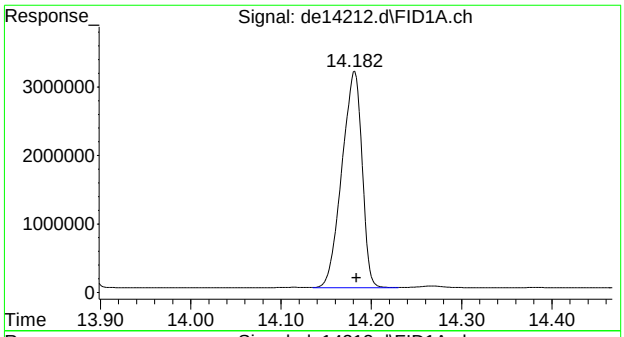
R.T.: 13.848 min
Delta R.T.: 0.000 min
Response: 5116733
Conc: 51.68 µg/ml



#17 benzo(k)fluoranthene

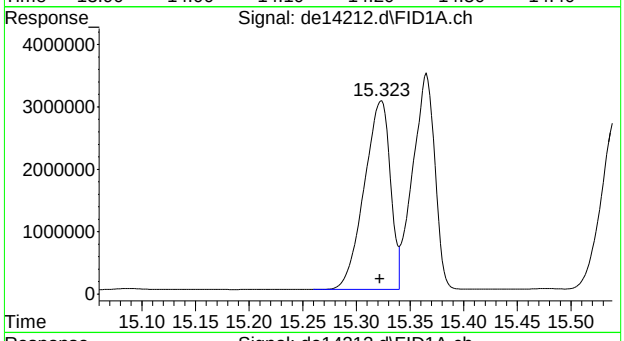
R.T.: 13.877 min
Delta R.T.: -0.002 min
Response: 5157742
Conc: 54.58 µg/ml

SGS ACCUTEST MC45897



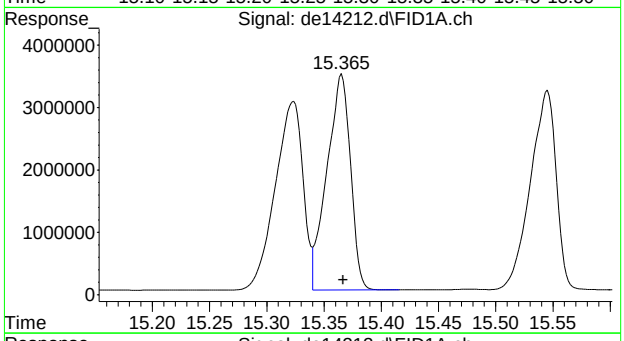
#18 benzo(a)pyrene

R.T.: 14.182 min
Delta R.T.: -0.002 min
Response: 4899604
Conc: 53.01 µg/ml



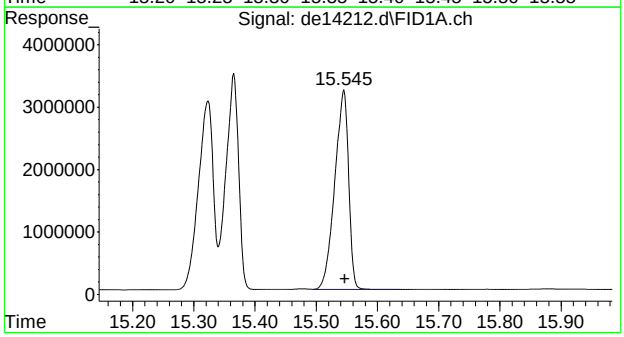
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.323 min
Delta R.T.: 0.002 min
Response: 5166497
Conc: 54.58 µg/ml



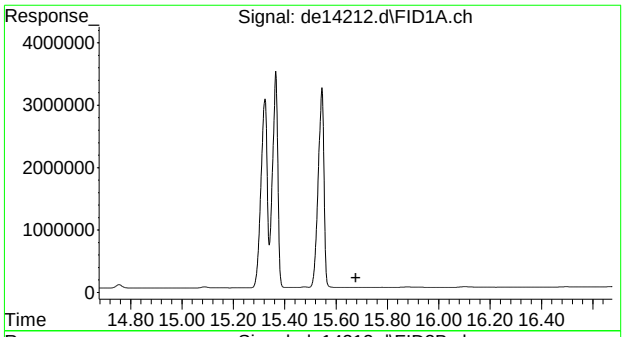
#20 dibenzo(ah)anthracene

R.T.: 15.365 min
Delta R.T.: -0.002 min
Response: 4911505
Conc: 53.74 µg/ml



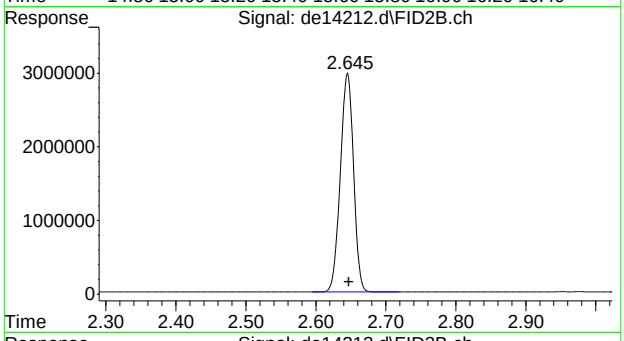
#21 benzo(ghi)perylene

R.T.: 15.545 min
Delta R.T.: -0.002 min
Response: 5020428
Conc: 54.50 µg/ml



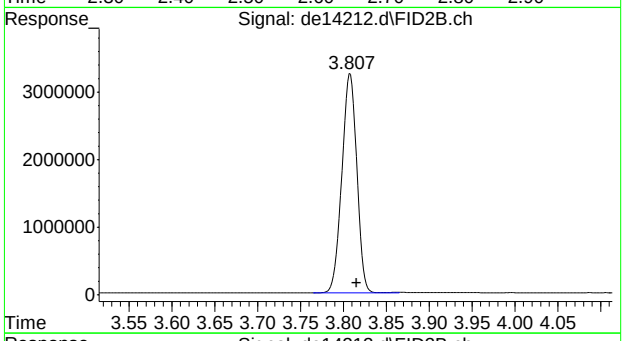
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



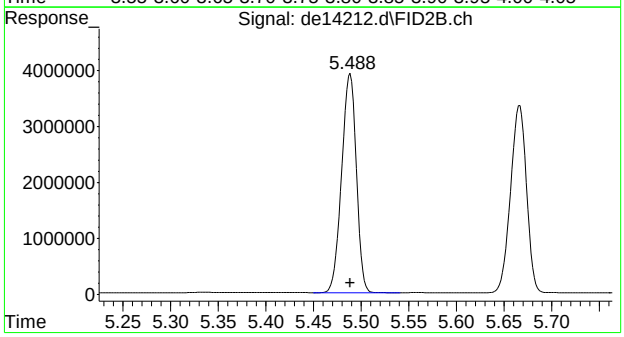
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 3896964
Conc: 52.75 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3942927
Conc: 53.38 µg/ml



#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: 0.000 min
Response: 4200943
Conc: 52.60 µg/ml

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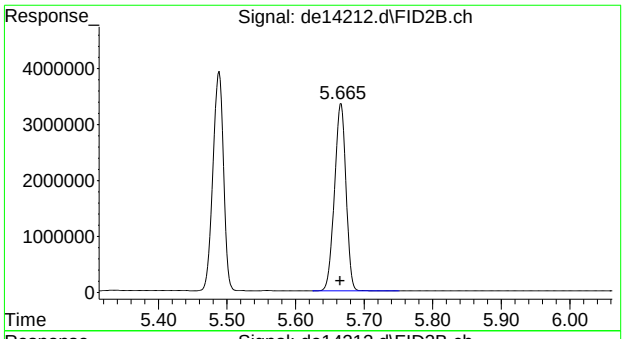
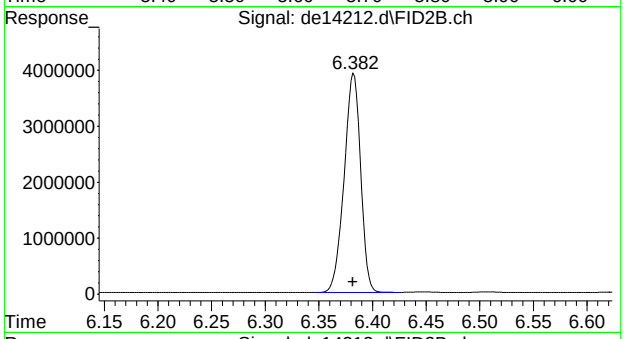


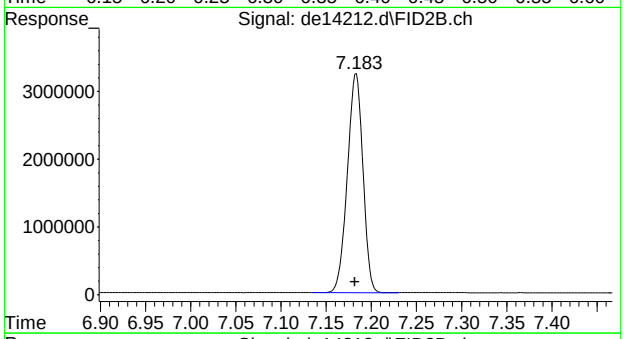
#28 c-12

R.T.: 5.665 min
Delta R.T.: 0.000 min
Response: 3906646
Conc: 52.88 µg/ml



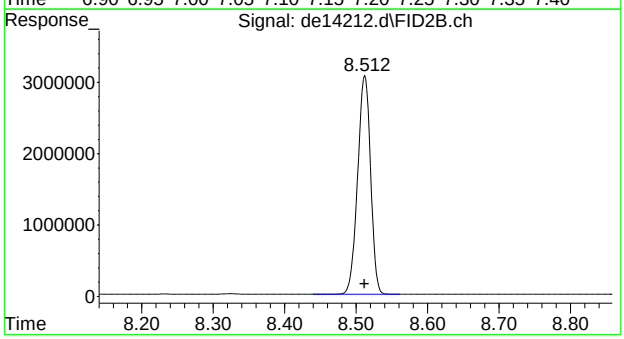
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: 0.000 min
Response: 4192839
Conc: 52.04 µg/ml



#30 c-14

R.T.: 7.183 min
Delta R.T.: 0.002 min
Response: 3877628
Conc: 52.49 µg/ml



#31 c-16

R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 3852034
Conc: 52.14 µg/ml

9.5.14

9

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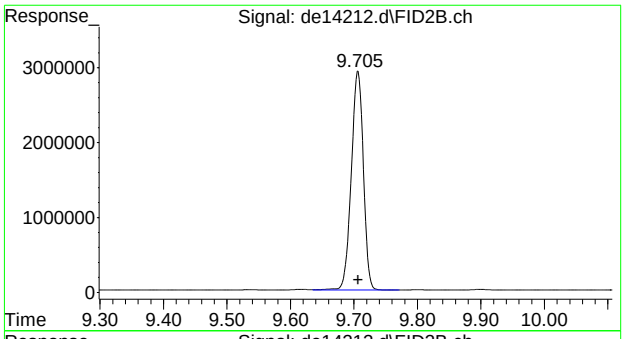
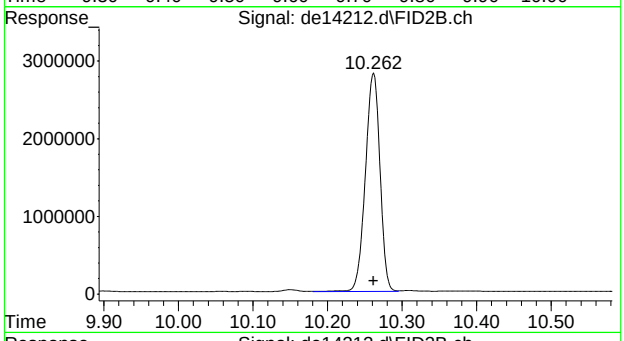


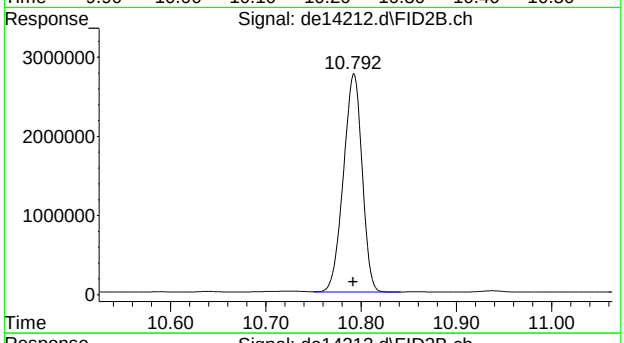
#32 c-18

R.T.: 9.705 min
Delta R.T.: -0.002 min
Response: 3854640
Conc: 52.18 µg/ml



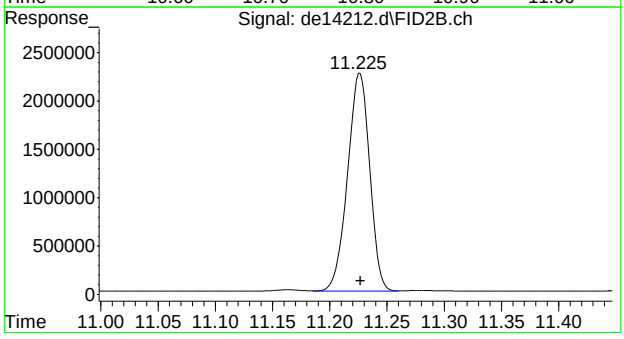
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 3826394
Conc: 57.28 µg/ml



#34 c-20

R.T.: 10.792 min
Delta R.T.: 0.000 min
Response: 3753255
Conc: 56.18 µg/ml



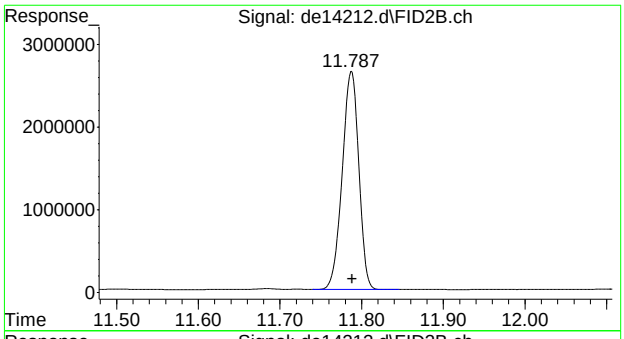
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.002 min
Response: 3032790
Conc: 53.61 µg/ml

9.5.14

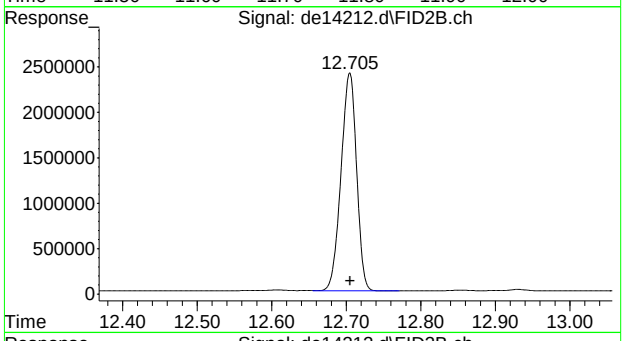
9

SGS ACCUTEST MC45897



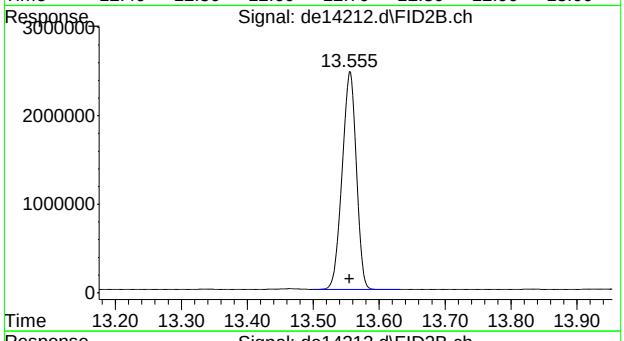
#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.002 min
Response: 3721732
Conc: 55.71 µg/ml



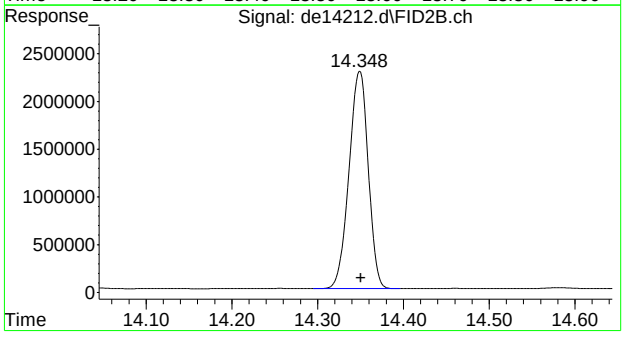
#37 c-24

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 3476424
Conc: 52.04 µg/ml



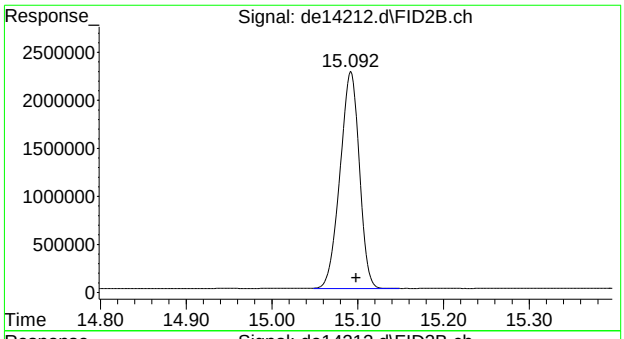
#38 c-26

R.T.: 13.555 min
Delta R.T.: 0.000 min
Response: 3684804
Conc: 55.16 µg/ml



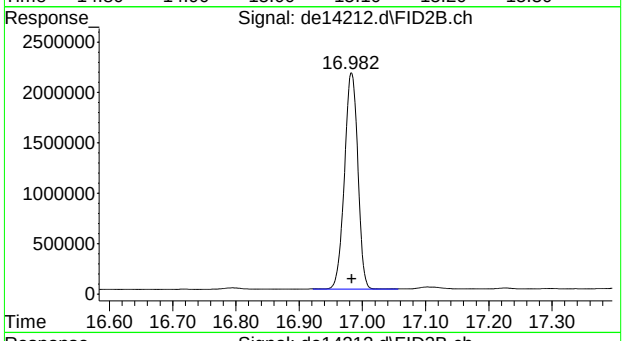
#39 c-28

R.T.: 14.348 min
Delta R.T.: -0.002 min
Response: 3543553
Conc: 53.04 µg/ml



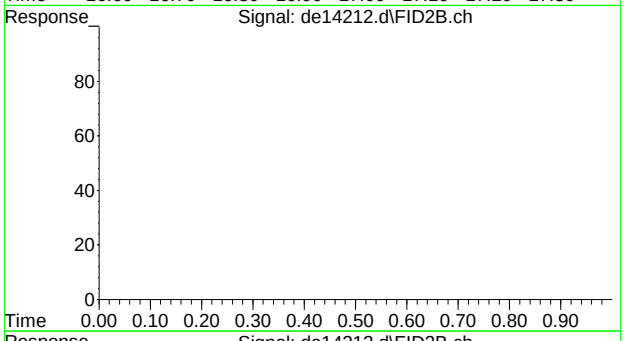
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3538745
Conc: 52.97 µg/ml



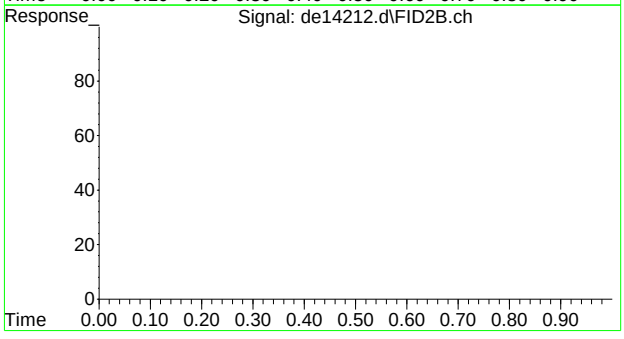
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3160817
Conc: 47.31 µg/ml m



#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.14

9

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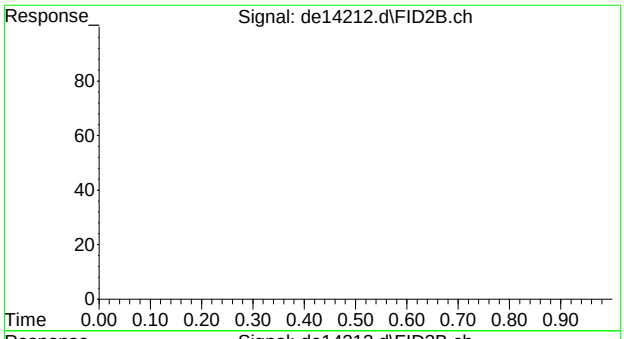
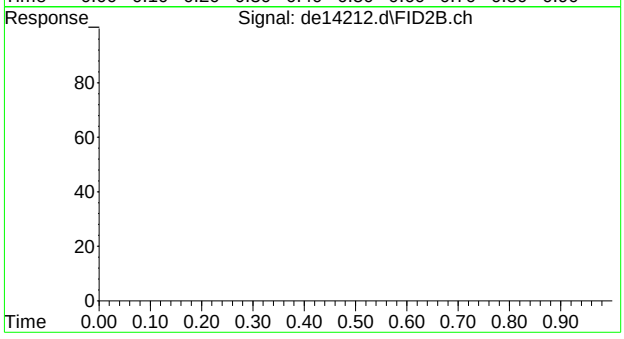


#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45897

Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160523EPH\
Data File : de14221.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 23 May 2016 12:44 pm
Operator : thomasa
Sample : ecc735-50,gde795
Misc : op47576,gde795,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:13:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.603	5136707	55.695 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 278.47%#	
6) s 2-bromonaphthalene	7.332	3461813	55.164 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 275.82%#	
11) s o-terphenyl	9.870	5677316	55.428 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 277.14%#	
35) s 1-chlorooctadecane	11.225	3042409	53.777 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 268.88%#	
Target Compounds			
2) naphthalene	5.150	5716570	55.425 µg/ml
3) 2-methylnaphthalene	6.050	5710887	55.726 µg/ml
5) acenaphthylene	7.165	5654158	56.203 µg/ml
7) acenaphthene	7.405	5928964	57.353 µg/ml
8) fluorene	8.048	5743125	56.545 µg/ml
9) phenanthrene	9.228	5668708	55.705 µg/ml
10) anthracene	9.287	5455343	56.236 µg/ml
12) fluoranthene	10.733	5491119	54.944 µg/ml
13) pyrene	10.988	5600455	55.197 µg/ml
14) benzo(a)anthracene	12.550	5092494	52.676 µg/ml
15) chrysene	12.598	5215725	53.582 µg/ml
16) benzo(B)fluoranthene	13.850	5081150	51.324 µg/ml
17) benzo(k)fluoranthene	13.877	5291156	55.990 µg/ml
18) benzo(a)pyrene	14.182	4940355	53.447 µg/ml
19) indeno(1,2,3-cd)pyrene	15.323	5186692	54.794 µg/ml
20) dibenzo(ah)anthracene	15.367	5011124	54.827 µg/ml
21) benzo(ghi)perylene	15.547	5075795	55.098 µg/ml
25) h c-9	2.647	3772479	51.068 µg/mlm
26) h c-10	3.815	3825550	51.786 µg/ml
27) naphthalene #2	5.487	4085875	51.155 µg/ml
28) c-12	5.665	3802315	51.472 µg/ml
29) 2-methylnaphthalene #2	6.382	4088050	50.741 µg/ml
30) c-14	7.182	3799603	51.435 µg/ml
31) c-16	8.512	3796877	51.398 µg/ml
32) c-18	9.707	3821273	51.728 µg/ml
33) c-19	10.260	3809216	57.019 µg/ml
34) c-20	10.792	3750735	56.143 µg/ml
36) c-22	11.788	3744442	56.049 µg/ml
37) c-24	12.705	3511605	52.564 µg/ml
38) c-26	13.555	3743420	56.034 µg/ml
39) c-28	14.350	3618954	54.171 µg/ml
40) h c-30	15.098	3627781	54.303 µg/ml
41) h c-36	16.983	3326180	49.788 µg/mlm

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

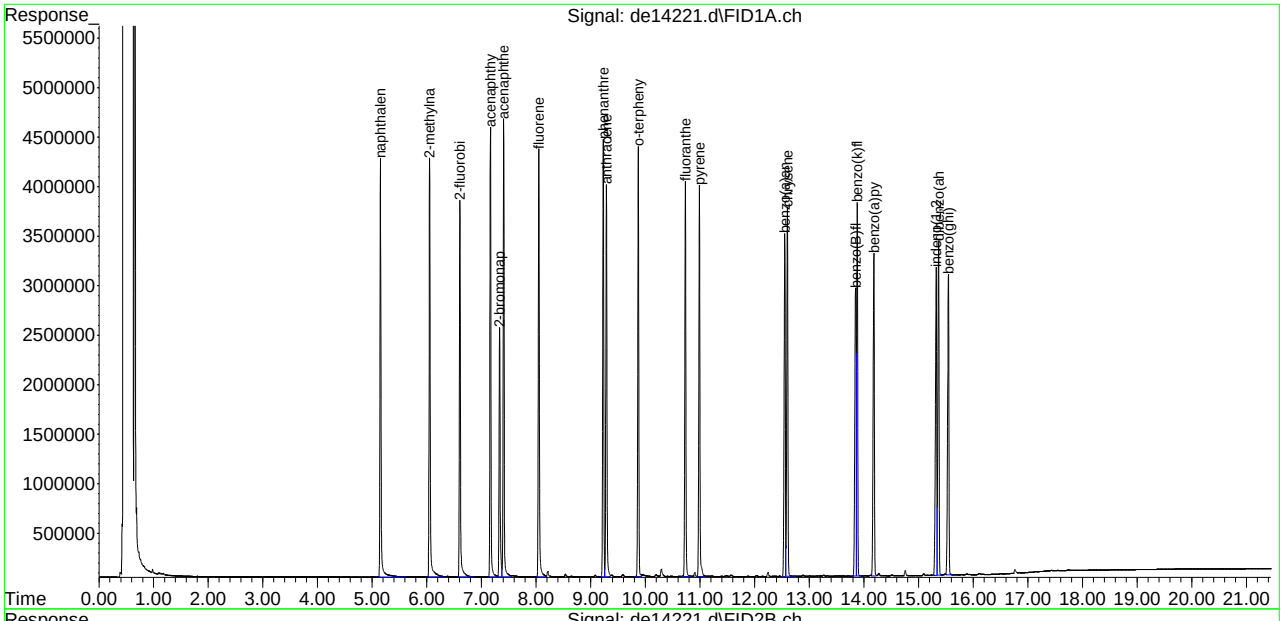
SGS ACCUTEST MC45897

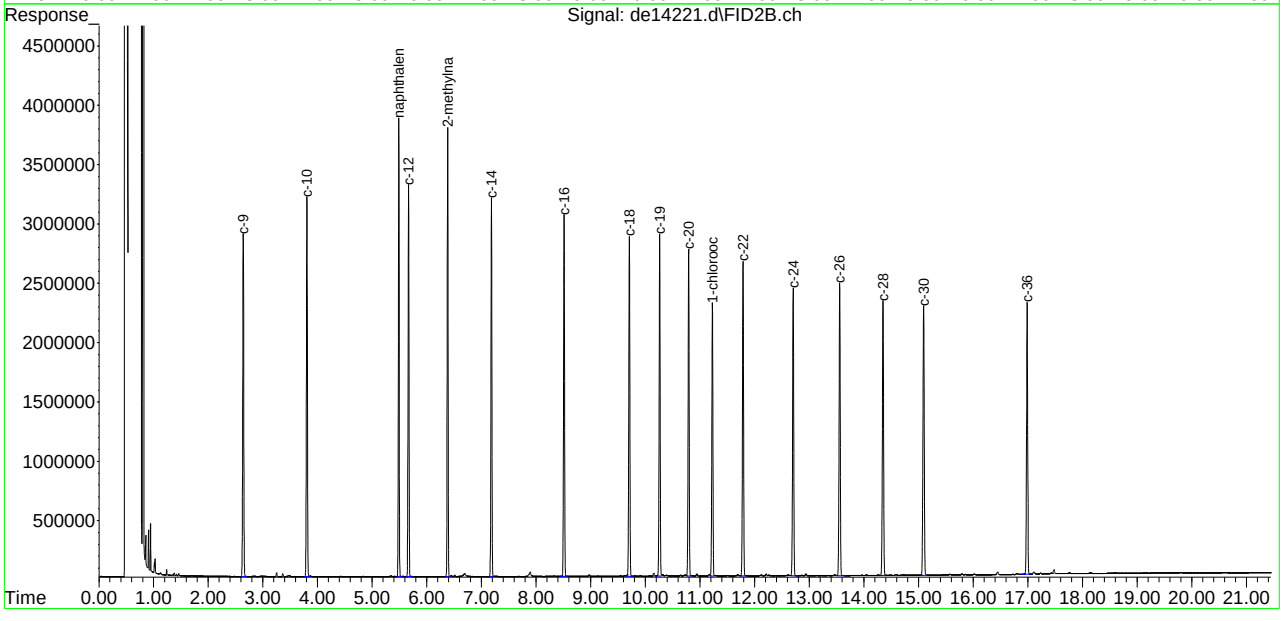
Quantitation Report (QT Reviewed)

Data Path : G:\1\DATA\DE160523EPH\
Data File : de14221.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 23 May 2016 12:44 pm
Operator : thomasa
Sample : ecc735-50,gde795
Misc : op47576,gde795,1000,,,2,,s
ALS Vial : 142 Sample Multiplier: 1

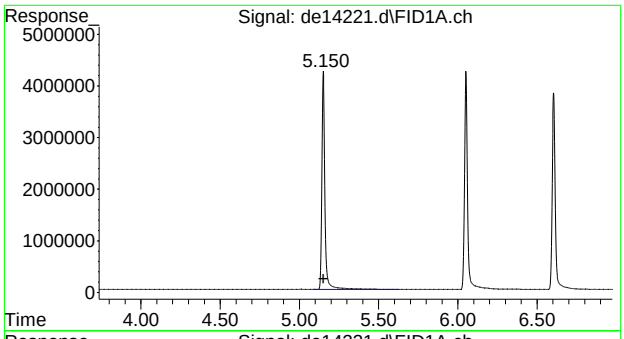
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 23 14:13:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160523W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 23 07:07:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



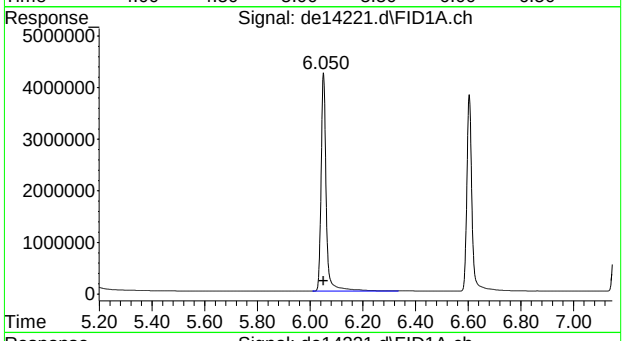


SGS ACCUTEST MC45897



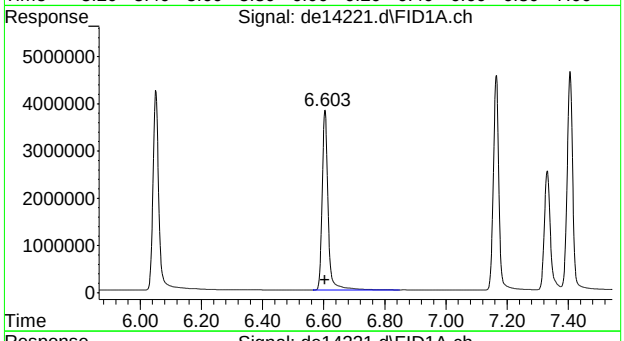
#2 naphthalene

R.T.: 5.150 min
Delta R.T.: 0.000 min
Response: 5716570
Conc: 55.43 µg/ml



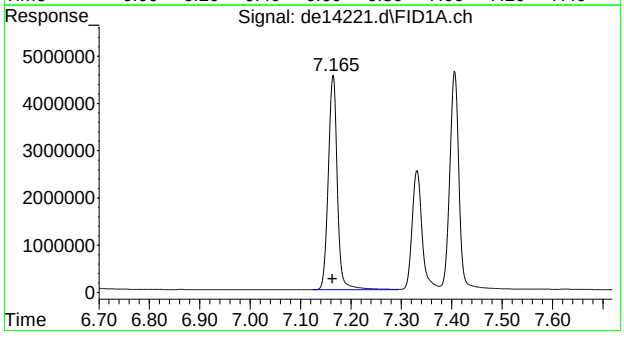
#3 2-methylnaphthalene

R.T.: 6.050 min
Delta R.T.: 0.000 min
Response: 5710887
Conc: 55.73 µg/ml



#4 2-fluorobiphenyl

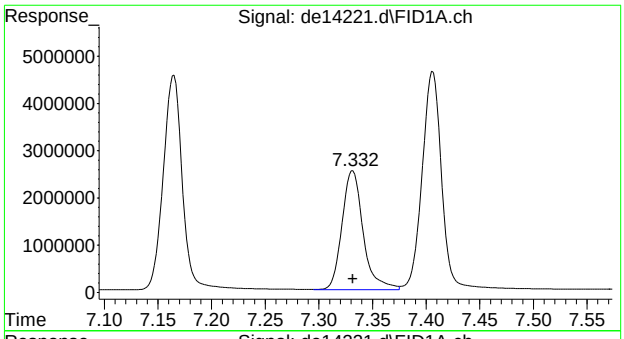
R.T.: 6.603 min
Delta R.T.: 0.000 min
Response: 5136707
Conc: 55.69 µg/ml



#5 acenaphthylene

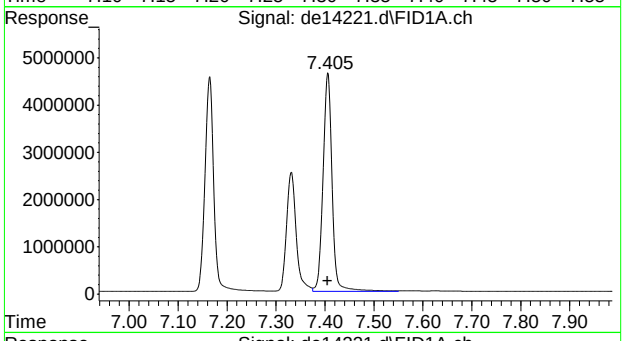
R.T.: 7.165 min
Delta R.T.: 0.002 min
Response: 5654158
Conc: 56.20 µg/ml

SGS ACCUTEST MC45897



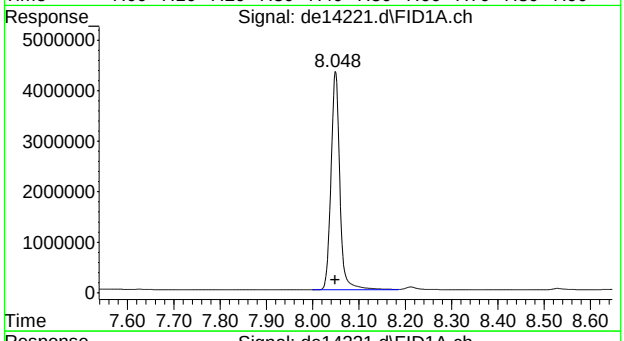
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.000 min
Response: 3461813
Conc: 55.16 µg/ml



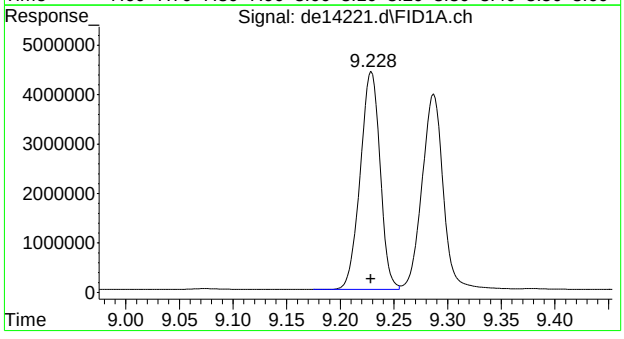
#7 acenaphthene

R.T.: 7.405 min
Delta R.T.: 0.000 min
Response: 5928964
Conc: 57.35 µg/ml



#8 fluorene

R.T.: 8.048 min
Delta R.T.: 0.000 min
Response: 5743125
Conc: 56.54 µg/ml



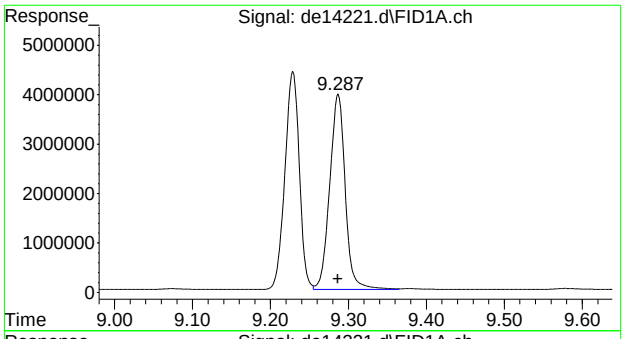
#9 phenanthrene

R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 5668708
Conc: 55.71 µg/ml

9.5.15

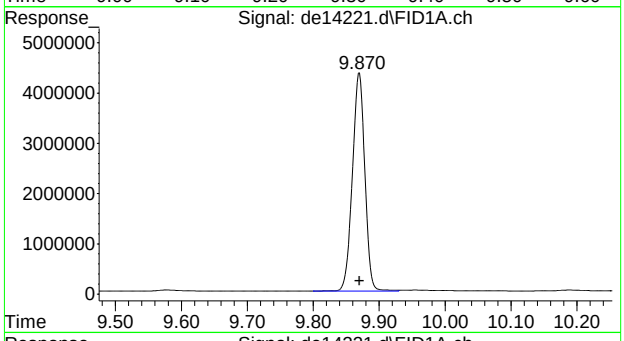
9

SGS ACCUTEST MC45897



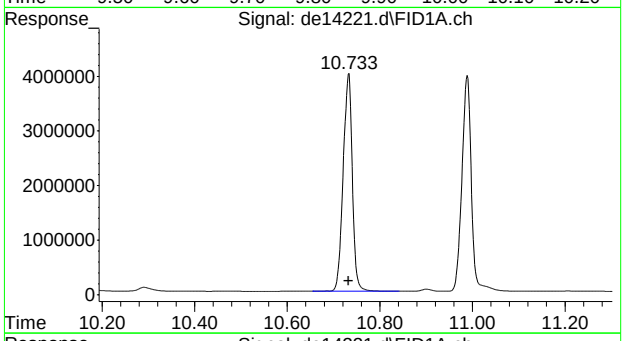
#10 anthracene

R.T.: 9.287 min
Delta R.T.: 0.000 min
Response: 5455343
Conc: 56.24 µg/ml



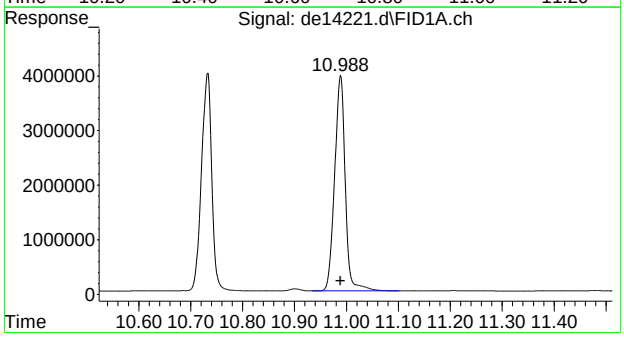
#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: 0.000 min
Response: 5677316
Conc: 55.43 µg/ml



#12 fluoranthene

R.T.: 10.733 min
Delta R.T.: 0.002 min
Response: 5491119
Conc: 54.94 µg/ml



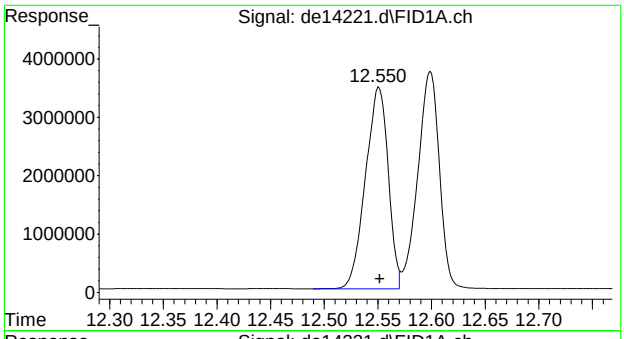
#13 pyrene

R.T.: 10.988 min
Delta R.T.: 0.000 min
Response: 5600455
Conc: 55.20 µg/ml

9.5.15

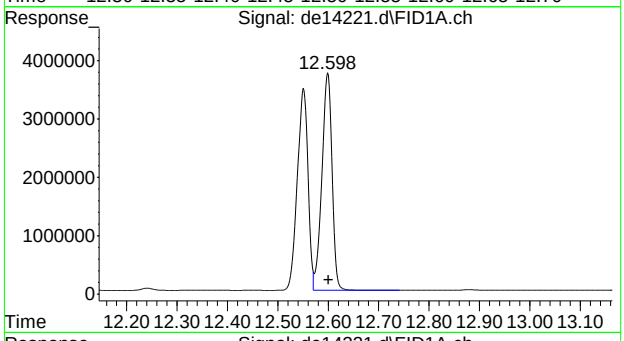
9

SGS ACCUTEST MC45897



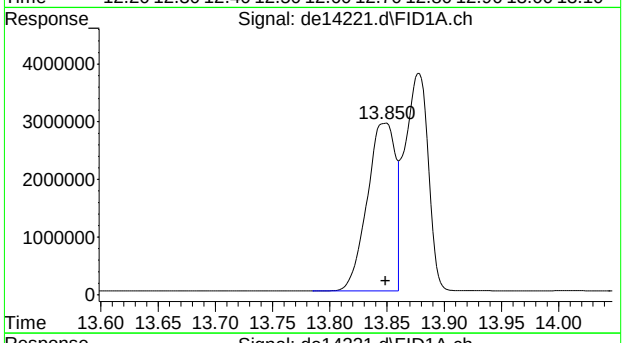
#14 benzo(a)anthracene

R.T.: 12.550 min
Delta R.T.: -0.002 min
Response: 5092494
Conc: 52.68 µg/ml



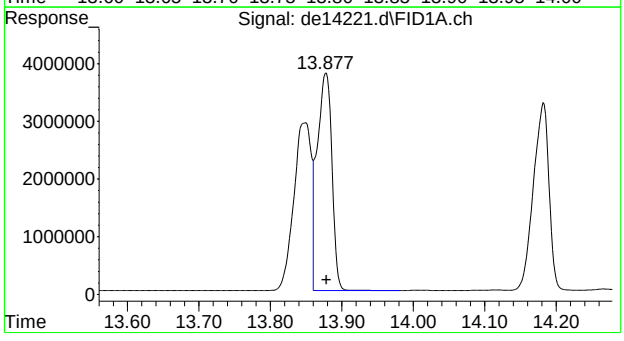
#15 chrysene

R.T.: 12.598 min
Delta R.T.: -0.002 min
Response: 5215725
Conc: 53.58 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.850 min
Delta R.T.: 0.002 min
Response: 5081150
Conc: 51.32 µg/ml



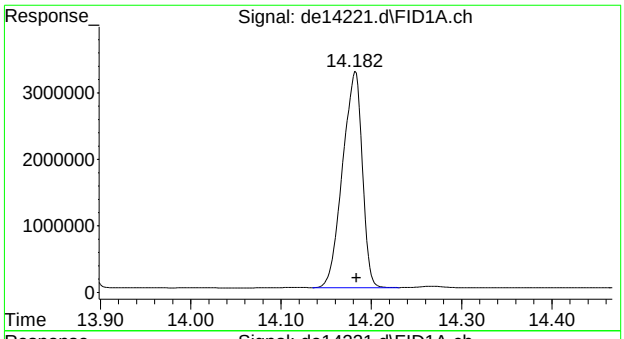
#17 benzo(k)fluoranthene

R.T.: 13.877 min
Delta R.T.: -0.002 min
Response: 5291156
Conc: 55.99 µg/ml

9.5.15

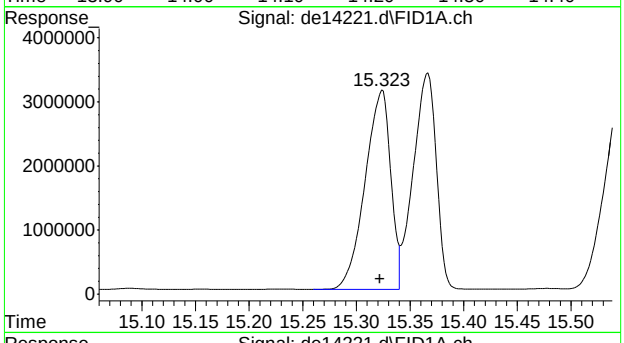
9

SGS ACCUTEST MC45897



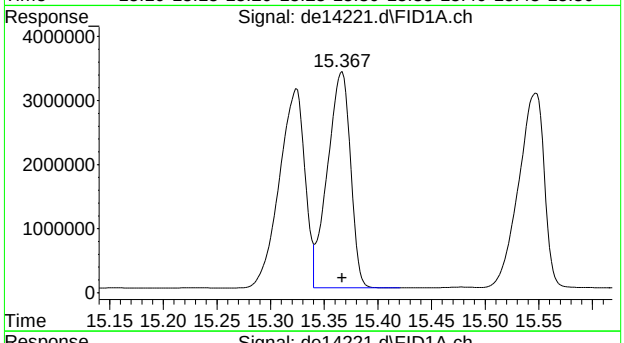
#18 benzo(a)pyrene

R.T.: 14.182 min
Delta R.T.: -0.002 min
Response: 4940355
Conc: 53.45 µg/ml



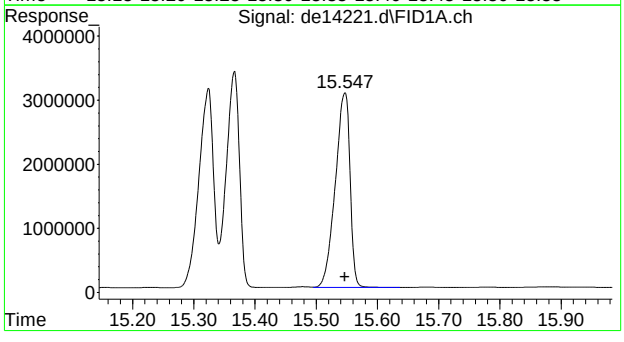
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.323 min
Delta R.T.: 0.002 min
Response: 5186692
Conc: 54.79 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.367 min
Delta R.T.: 0.000 min
Response: 5011124
Conc: 54.83 µg/ml



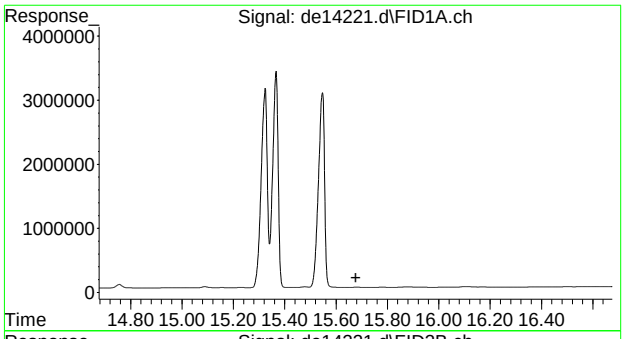
#21 benzo(ghi)perylene

R.T.: 15.547 min
Delta R.T.: 0.000 min
Response: 5075795
Conc: 55.10 µg/ml

9.5.15

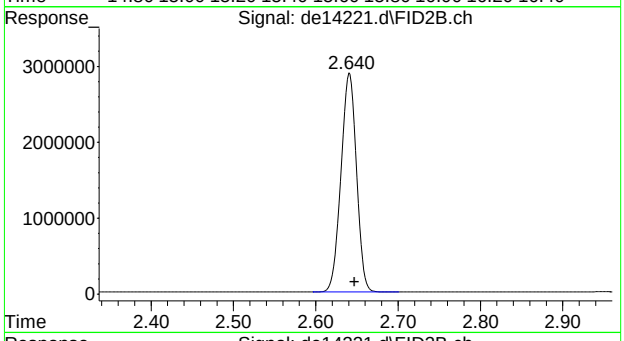
9

SGS ACCUTEST MC45897



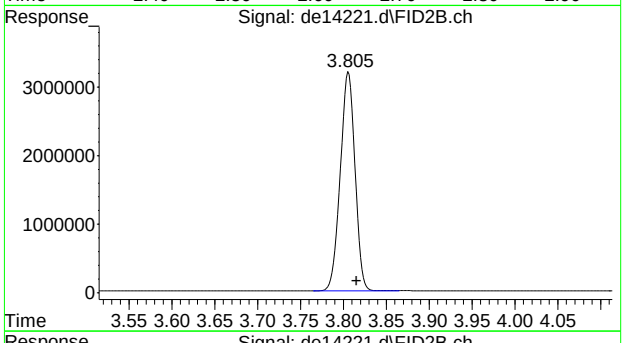
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.677 min
Response: 0
Conc: N.D.



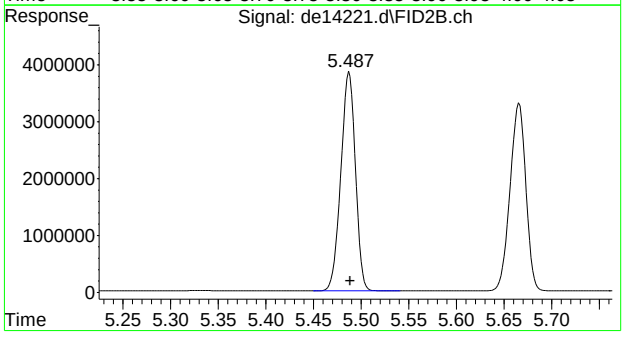
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 3772479
Conc: 51.07 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3825550
Conc: 51.79 µg/ml



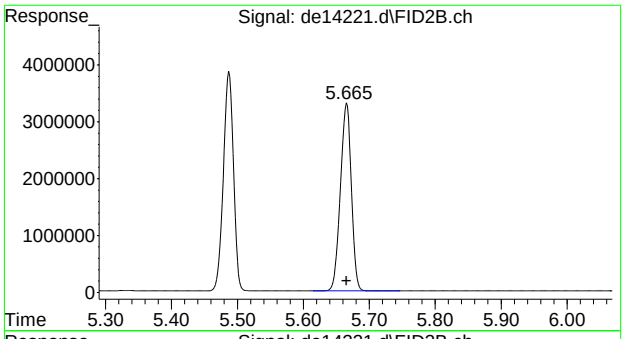
#27 naphthalene #2

R.T.: 5.487 min
Delta R.T.: -0.002 min
Response: 4085875
Conc: 51.16 µg/ml

9.5.15

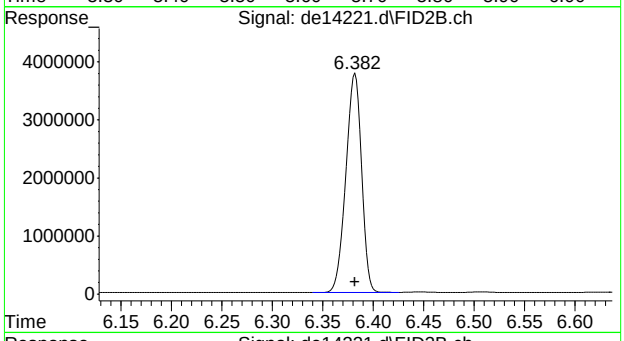
9

SGS ACCUTEST MC45897



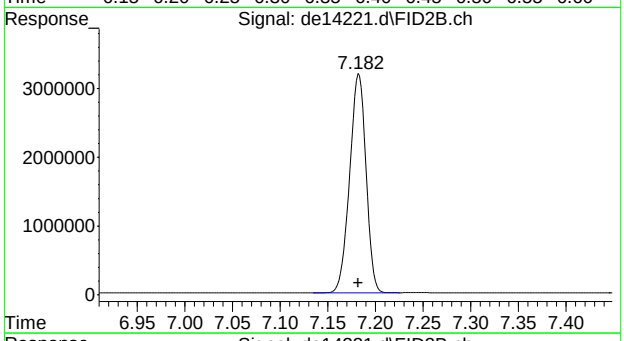
#28 c-12

R.T.: 5.665 min
Delta R.T.: 0.000 min
Response: 3802315
Conc: 51.47 µg/ml



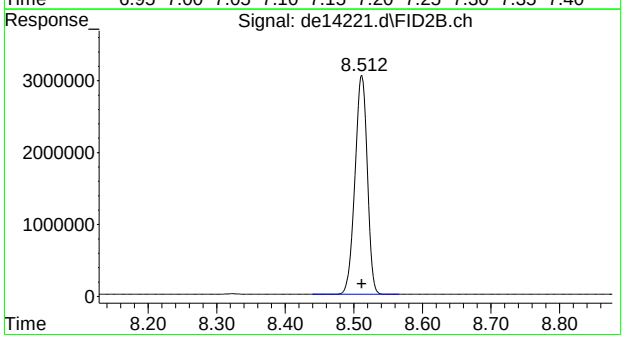
#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: 0.000 min
Response: 4088050
Conc: 50.74 µg/ml



#30 c-14

R.T.: 7.182 min
Delta R.T.: 0.000 min
Response: 3799603
Conc: 51.43 µg/ml



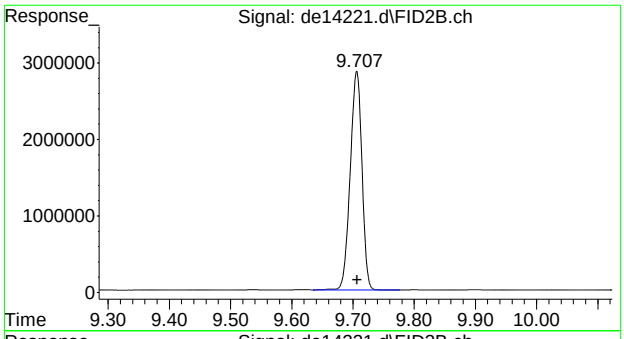
#31 c-16

R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 3796877
Conc: 51.40 µg/ml

9.5.15

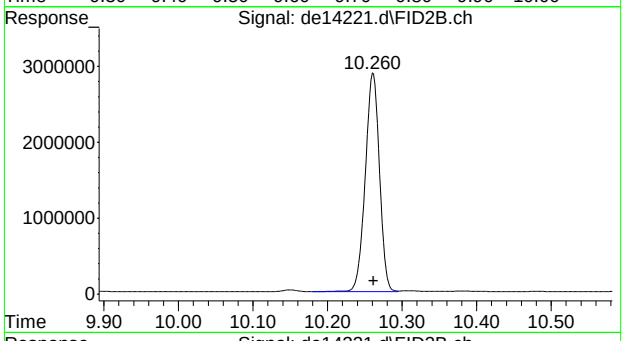
9

SGS ACCUTEST MC45897



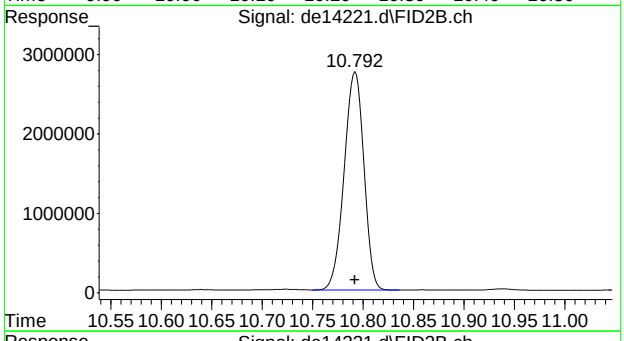
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3821273
Conc: 51.73 µg/ml



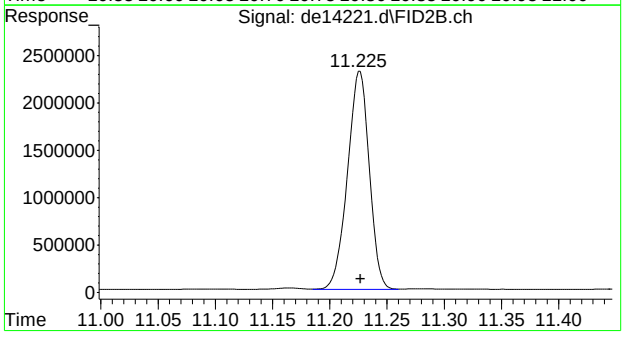
#33 c-19

R.T.: 10.260 min
Delta R.T.: -0.002 min
Response: 3809216
Conc: 57.02 µg/ml



#34 c-20

R.T.: 10.792 min
Delta R.T.: 0.000 min
Response: 3750735
Conc: 56.14 µg/ml



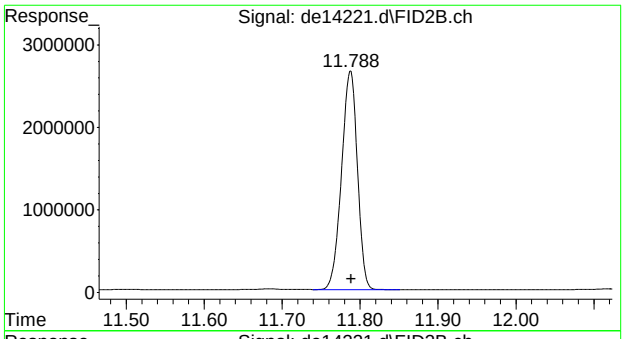
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.002 min
Response: 3042409
Conc: 53.78 µg/ml

9.5.15

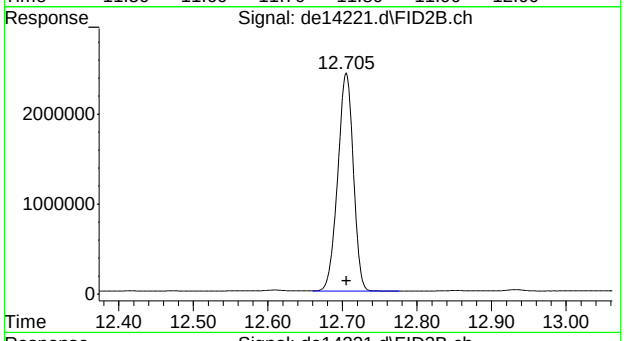
9

de14221.d EPH160523W.M Mon May 23 14:14:43 2016 Page 11



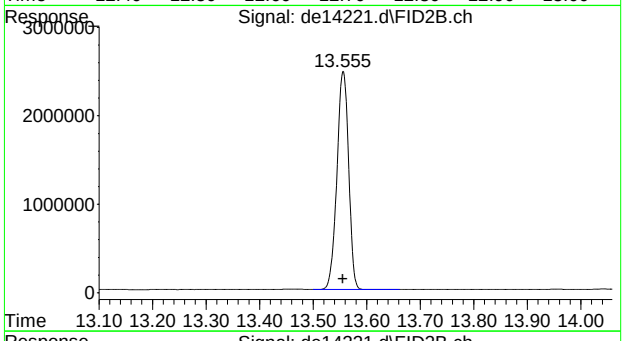
#36 c-22

R.T.: 11.788 min
Delta R.T.: 0.000 min
Response: 3744442
Conc: 56.05 µg/ml



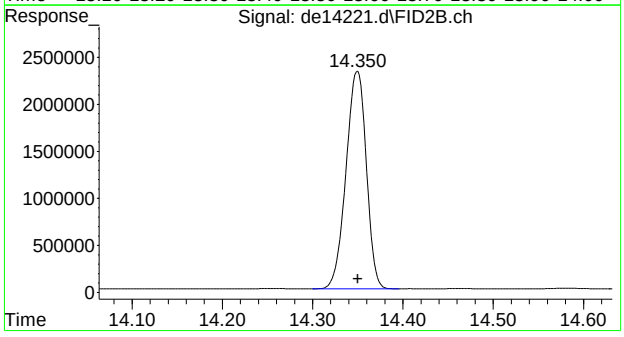
#37 c-24

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 3511605
Conc: 52.56 µg/ml



#38 c-26

R.T.: 13.555 min
Delta R.T.: 0.000 min
Response: 3743420
Conc: 56.03 µg/ml



#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 3618954
Conc: 54.17 µg/ml

9.5.15

9

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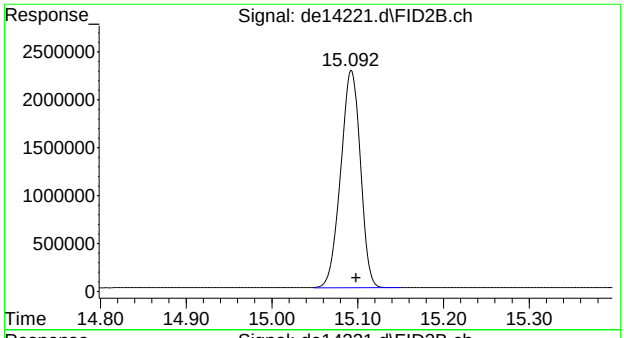
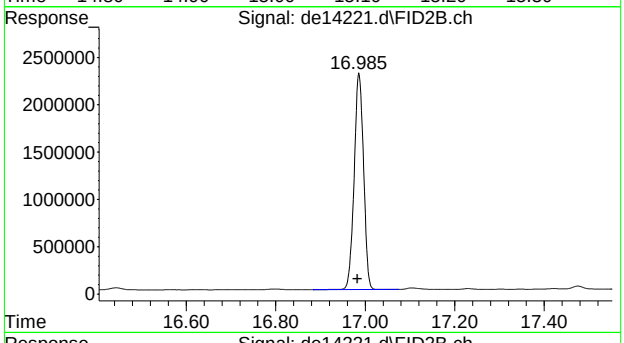


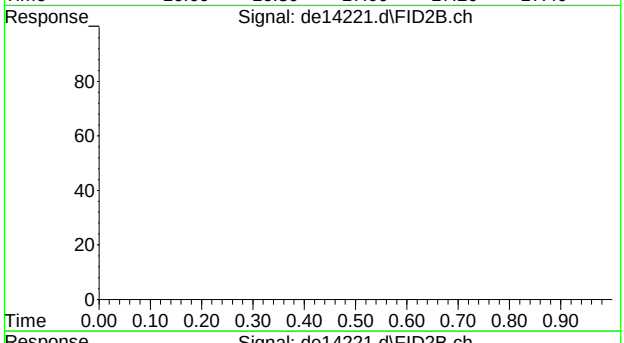
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3627781
Conc: 54.30 µg/ml



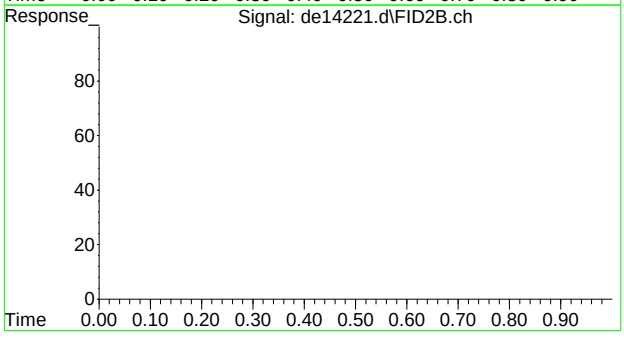
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3326180
Conc: 49.79 µg/ml m



#42 bht

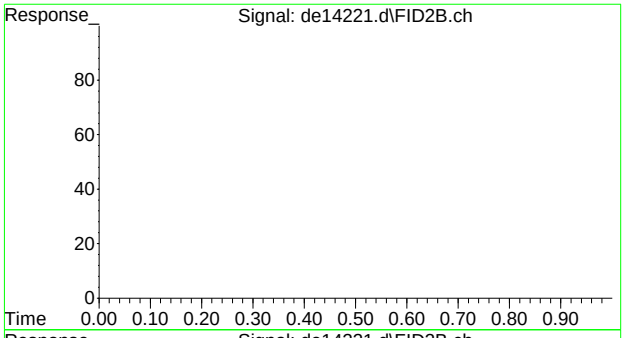
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

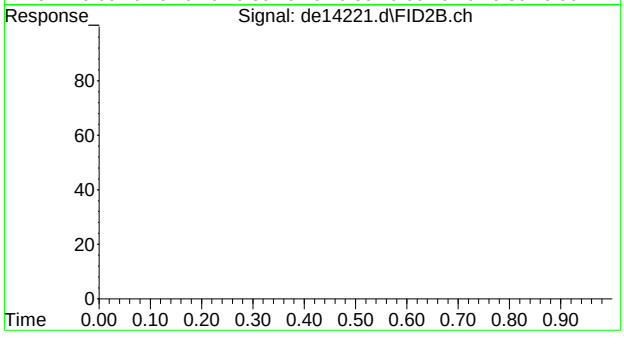
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45897



#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.5.15

9

SGS ACCUTEST MC45897

Accutest Laboratories of New England, Inc.

Instrument: GC 32 (GCDE)

GC Analysis Log - Extractables

Run Date: 2-4-16

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc
	see comments	

Column Information: Front : RTX-5 Alternate:
Rear : RTX-5 Alternate:

Sequence File: ~~DE160205EPH.S~~ DE160204EPH.S

Quantitation Methods: ~~(10)~~ TR ~~(EPH160205W.M)~~ EPH160204W.M

Instrument Run Batches: GDE ~~(735)~~ TR 735

Data Acquisition Methods: EPH DCAW Inj. Vol: 1ml

Inj. Vol:

Date of ICAL: ICAL Verified Sample positions verified against sequence:

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments	
~~(1+1)~~ 1/2	DE13190	Primo	N/A	EPH	N/A	N/A	AI:	ARO
1/2	91	IC735-1					G518066	G518059
3/4	92	-2					65	58
5/6	93	-5					64	57
7/8	94	-20					63	56
9/10	95	ICC735-50					62	55
11/12	96	IC735-100					61	54
13/14	97	-200					60	53
15/16	DE 13198	ICV735-50					ICV=GOOD ARO G518052	AI: G518009

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

Review:

GC011-01
Date: 02/26/07

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de13198.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	icv735-50

Name	Amount	Response
c-9	49.68	3669865
c-10	49.84	3682081
c-12	49.07	3625160
c-14	48.80	3605226
c-16	47.90	3538485
c-18	47.31	3494684
c-19	51.26	3424371
c-20	50.76	3390870
c-22	49.93	3335369
c-24	49.04	3275936
c-26	48.67	3251556
c-28	47.96	3204302
c-30	47.06	3143578
c-36	43.91	2933493

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	72052	73872	**2.50**	**In Criteria**
C19-C36	64899	66806	**2.90**	**In Criteria**

c28/c20 Percentage: 94.50

1-chlorooctadecane	52.48	2968966
naphthalene #2	50.53	4035939
2-methylnaphthalene	49.08	3954192

BMAEPH - Aliphatic Calibration

Instrument Name GCDE
Operator thomasa

	de13197.d	de13196.d	de13195.d	de13194.d	de13193.d	de13192.d	de13191.d
	200	100	50	20	5	2	1
c-9	13093571	7080731	3541836	1587594	396890	157422	76082
c-10	13149397	7121293	3570776	1597831	401630	158649	77300
c-12	12963152	7047399	3545795	1581613	398273	157764	76748
c-14	12790598	6951061	3516096	1563771	396429	157636	77909
c-16	12583573	6811631	3450251	1537180	389860	156773	78733
c-18	12493898	6758324	3414559	1515877	383929	154646	77956
Total Mass	1200	600	300	120	30	12	6
Total Area	77074189	41770439	21039313	9383866	2367011	942890	464728
RF	64228	69617	70131	78199	78900	78574	77455
Average RF	73872						
% RSD	7.31	**<25%**					
C9 -C18	14774429	**Inserted into 200 ppm level**					
c-19	12406524	6704725	3383527	1500139	381074	151034	78108
c-20	12189358	6591283	3319667	1468089	369620	148378	75638
c-22	12115679	6550653	3288115	1451343	364434	146070	73192
c-24	11324691	6102937	3065680	1351453	339349	135579	69851
c-26	12045195	6486501	3260990	1435543	359561	142920	72850
c-28	11646376	6270223	3155644	1385739	345810	137233	69399
c-30	11593413	6235140	3152151	1377048	345750	139197	74594
c-36	10854654	5572797	2883025	1222680	300895	119416	60516
Total Mass	1600	800	400	160	40	16	8
Total Area	94175890	50514259	25508799	11192034	2806493	1119827	574148
RF	58860	63143	63772	69950	70162	69989	71769
Aerage RF	66806						
% RSD	6.73	**<25%**					
C19-C36	13361285	**Inserted into 200 ppm level**					

Operator thomasa
Instrument Na GCDE

BMAEPH - Aromatic Calibration

	de13197.d 200	de13196.d 100	de13195.d 50	de13194.d 20	de13193.d 5	de13192.d 2	de13191.d 1
naphthalene	19450620	10142634	5345223	2162719	522941	205575	100885
2-methylnaphthalene	19131536	9997868	5287222	2136209	518620	205018	102950
acenaphthylene	18686177	9776029	5189849	2106441	513706	202426	99947
acenaphthene	19311298	10095451	5354326	2170607	524765	207471	101818
fluorene	18917157	9889893	5242546	2130652	515691	204542	100695
phenanthrene	18899419	9875264	5223164	2129143	514273	207031	101800
anthracene	17945874	9378790	4970359	2038508	492058	199105	96242
fluoranthene	18457513	9629565	5079973	2077039	501463	203479	103521
pyrene	18932497	9876553	5123787	2089957	505877	206224	105548
benzo(a)anthracene	17872955	9324427	4883350	2002764	484563	197822	100487
chrysene	18069681	9386529	4951740	2022589	488834	197927	100279
benzo(B)fluoranthene	18893122	9460698	4980192	2094779	499942	197572	100827
benzo(k)fluoranthene	16859064	9345183	4922694	1953249	474469	193855	95833
benzo(a)pyrene	17319408	8964794	4724847	1927552	464216	184685	94743
indeno(1,2,3-cd)pyrene	18670540	9240715	4854725	1948257	472235	186820	94483
dibenzo(ah)anthracene	16610466	8726656	4685536	1933263	466623	185980	92785
benzo(ghi)perylene	17523714	8869696	4705124	1916075	463653	184915	93453
Total Mass (Targets)	3400	1700	850	340	85	34	17
Total Area (Targets)	311551041	161980745	85524657	34839803	8423929	3370447	1686296
RF	91633	95283	100617	102470	99105	99131	99194
Average RF	98205						

% RSD **3.41** **<25%**
C11-C22 Aromatics **19640926** **Insert into 200ppm level**

SGS Accutest, Inc.

Page 1 of 2

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5.19.16

Analyst Signature:

Standard Data

Lot #	Description	Conc
651806.2	Ai CCV	50 ug/ml
↓ 055	Aro CCV	50 ug/ml

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: DE160519.S
Quantitation Methods: EPH160519WM
Instrument Run Batches: GDE 793
Data Acquisition Methods: EPH DUR CU Inj. Vol: 1ul
Inj. Vol:

Date of ICAL: 2.4.16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
1/1/142	DE14163	cc735-50	N/A	MA EPH	N/A	N/A	OK
1/2	64	OP47498-MB	OP47498		W		
3/4	65	-BS					
5/6	66	-BSD					RR
7/8	67	-MS					
9/10	68	-MSD					
11/12	69	MC45837-1					
13/14	70	-2					
15/16	71	-3					
17/18	72	-4					
19/20	73	-5					
141/142	74	cc735-50	N/A		N/A		OK
21/22	75	MC45897-1A	OP47498		W		
23/24	76	-2A					
25/26	77	-3A					
27/28	78	-4A					
29/30	79	-5A					
31/32	80	-6A					
33/34	81	MC45881-1					
35/36	82	-2					
37/38	83	-3					
39/40	84	MC45910-2A					
141/142	85	cc735-50	N/A		N/A		OK
41/42	86	MC45910-4A	OP47498		W		
43/44	87	MC45812-1					
45/46	88	-2					
47/48	89	-3					

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

GC014-01
Date: 9/15/10

Review:

12

9.6.2

9

SGS Accutest, Inc.

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5.19.16

Analyst Signature:

Standard Data

Lot #	Description	Conc
	See	
	Page	
	1	

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File:
Quantitation Methods:
Instrument Run Batches: See Page 1
Data Acquisition Methods: Inj. Vol:
Inj. Vol:

Date of ICAL: ICAL Verified Sample positions verified against sequence:

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
141/142	DE14190	ec735-50	N/A	MM EPH	N/A	N/A	OK
5/6	91	OP47498-850	OP47498		W		(RR: OK)
51/52	92	MC45597-4A					(NF, re-extract needed)
141/142	DE14193	ec735-50	N/A		N/A		OK

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: Lot#:

GC014-01
Date: 9/15/10

Review:

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14163.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde793

Name	Amount	Response
c-9	53.28	3935966
c-10	53.74	3969880
c-12	53.28	3936027
c-14	53.01	3916093
c-16	52.67	3890629
c-18	52.89	3907027
c-19	57.98	3873129
c-20	56.97	3805939
c-22	56.63	3783106
c-24	53.04	3543501
c-26	56.38	3766774
c-28	54.51	3641482
c-30	54.14	3616898
c-36	48.80	3260454

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	78519	73872	**6.10**	**In Criteria**
C19-C36	73228	66806	**9.17**	**In Criteria**

c28/c20 Percentage: 95.68

1-chlorooctadecane	54.32	3072971
naphthalene #2	53.06	4238041
2-methylnaphthalene	52.52	4231454

9.6.2

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14174.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde793

Name	Amount	Response
c-9	53.13	3925109
c-10	53.62	3960772
c-12	53.22	3931512
c-14	52.83	3902373
c-16	52.41	3872003
c-18	52.35	3867183
c-19	57.48	3839754
c-20	56.36	3765407
c-22	55.96	3738756
c-24	52.24	3489883
c-26	55.45	3704606
c-28	53.51	3574638
c-30	53.35	3564058
c-36	48.21	3220467

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	78197	73872	**5.69**	**In Criteria**
C19-C36	72244	66806	**7.82**	**In Criteria**

c28/c20 Percentage: 94.93

1-chlorooctadecane	53.81	3044112
naphthalene #2	52.83	4219919
2-methylnaphthalene	52.30	4214019

9.6.2

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14185.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde793

Name	Amount	Response		Continuing Avg. RF	Initial Avg. RF	%Diff	
c-9	51.27	3787629					
c-10	51.88	3832735					
c-12	51.64	3814795	**C9-C18**	75907	73872	**2.72**	**In Criteria**
c-14	51.39	3796577					
c-16	51.02	3769082					
c-18	51.05	3771347					
c-19	56.12	3749083	**C19-C36**	71217	66806	**6.39**	**In Criteria**
c-20	55.19	3687106					
c-22	54.89	3667240					
c-24	51.36	3430948		c28/c20 Percentage:		95.76	
c-26	54.65	3651190					
c-28	52.85	3530773					
c-30	52.82	3528496					
c-36	48.53	3242064					

1-chlorooctadecane	52.79	2986683
naphthalene #2	51.26	4094326
2-methylnaphthalene	50.83	4095093

9.6.2

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14190.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde793

Name	Amount	Response
c-9	50.62	3739615
c-10	51.28	3788289
c-12	51.16	3779245
c-14	51.17	3780369
c-16	51.07	3772734
c-18	51.37	3795175
c-19	56.60	3780931
c-20	55.58	3713216
c-22	55.48	3706157
c-24	52.06	3478196
c-26	55.50	3707696
c-28	53.77	3592070
c-30	53.86	3598009
c-36	49.98	3338826

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	75518	73872	**2.20**	**In Criteria**
C19-C36	72288	66806	**7.88**	**In Criteria**
c28/c20 Percentage:			96.74	

1-chlorooctadecane	53.30	3015662
naphthalene #2	50.63	4043765
2-methylnaphthalene	50.37	4057958

9.6.2

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14193.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	ecc735-50,gde793

Name	Amount	Response
c-9	52.71	3893948
c-10	53.33	3939649
c-12	52.95	3911390
c-14	52.56	3883040
c-16	52.23	3858699
c-18	52.36	3867680
c-19	57.59	3847465
c-20	56.53	3776762
c-22	56.25	3757976
c-24	52.55	3510694
c-26	55.78	3726605
c-28	53.82	3595724
c-30	53.59	3579910
c-36	48.29	3225875

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	77848	73872	**5.24**	**In Criteria**
C19-C36	72553	66806	**8.25**	**In Criteria**

c28/c20 Percentage: 95.21

1-chlorooctadecane	54.05	3057788
naphthalene #2	52.68	4207871
2-methylnaphthalene	52.13	4199748

9.6.2

9

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47498-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		14.27	50	57.06	
2-methylnaphthalene		15.02	50	60.07	
2-fluorobiphenyl	s	18.46	40	92.29	
acenaphthylene		16.13	50	64.52	
2-bromonaphthalene	s	17.11	40	85.54	
acenaphthene		18.37	50	73.49	
fluorene		17.29	50	69.16	
phenanthrene		17.35	50	69.41	
anthracene		20.05	50	80.18	
o-terphenyl	s	16.92	40	84.60	
fluoranthene		19.60	50	78.41	
pyrene		19.38	50	77.51	
benzo(a)anthracene		19.95	50	79.81	
chrysene		20.24	50	80.95	
benzo(B)fluoranthene		19.75	50	78.99	
benzo(k)fluoranthene		20.31	50	81.23	
benzo(a)pyrene		20.55	50	82.19	
indeno(1,2,3-cd)pyrene		20.52	50	82.10	
dibenzo(ah)anthracene		20.37	50	81.49	
benzo(ghi)perylene		20.84	50	83.37	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		10.85	50	43.39	
c-10		14.05	50	56.20	
c-12		16.44	50	65.76	
c-14		17.66	50	70.64	
c-16		18.64	50	74.55	
c-18		19.54	50	78.15	
c-19		21.47	50	85.90	
c-20		21.45	50	85.81	
1-chlorooctadecane	s	14.14	40	70.72	
c-22		21.11	50	84.43	
c-24		20.83	50	83.32	
c-26		20.36	50	81.45	
c-28		20.07	50	80.29	
c-30		19.67	50	78.70	
c-36		15.33	50	61.31	

Recovery C9-C18
64.78

Recovery C19-C36
80.15

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.00	0.00	0.00

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47498-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		9.39	50	37.57	add footnote
2-methylnaphthalene		10.80	50	43.18	
2-fluorobiphenyl	s	15.54	40	77.69	
acenaphthylene		12.67	50	50.68	
2-bromonaphthalene	s	15.03	40	75.13	
acenaphthene		14.56	50	58.24	
fluorene		14.62	50	58.48	
phenanthrene		15.70	50	62.79	
anthracene		18.00	50	71.99	
o-terphenyl	s	14.92	40	74.62	
fluoranthene		18.41	50	73.66	
pyrene		18.31	50	73.26	
benzo(a)anthracene		20.24	50	80.96	
chrysene		20.22	50	80.90	
benzo(B)fluoranthene		20.49	50	81.94	
benzo(k)fluoranthene		20.61	50	82.45	
benzo(a)pyrene		21.08	50	84.31	
indeno(1,2,3-cd)pyrene		21.11	50	84.43	
dibenzo(ah)anthracene		21.34	50	85.38	
benzo(ghi)perylene		21.53	50	86.11	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		7.88	50	31.54	
c-10		10.73	50	42.92	
c-12		13.83	50	55.33	
c-14		16.11	50	64.42	
c-16		17.79	50	71.18	
c-18		18.99	50	75.98	
c-19		21.05	50	84.22	
c-20		21.26	50	85.03	
1-chlorooctadecane	s	13.32	40	66.60	
c-22		21.22	50	84.87	
c-24		21.06	50	84.23	
c-26		20.58	50	82.32	
c-28		20.34	50	81.35	
c-30		20.30	50	81.20	
c-36		17.62	50	70.48	

Recovery C9-C18
56.89

Recovery C19-C36
81.71

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.00	0.00	0.00

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47498-bsd,rr

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		12.43	50	49.71	
2-methylnaphthalene		13.87	50	55.48	
2-fluorobiphenyl	s	19.86	40	99.31	
acenaphthylene		15.88	50	63.53	
2-bromonaphthalene	s	18.50	40	92.52	
acenaphthene		18.27	50	73.09	
fluorene		17.88	50	71.50	
phenanthrene		18.38	50	73.51	
anthracene		21.21	50	84.83	
o-terphenyl	s	17.39	40	86.94	
fluoranthene		20.72	50	82.89	
pyrene		20.26	50	81.04	
benzo(a)anthracene		21.64	50	86.57	
chrysene		21.57	50	86.30	
benzo(B)fluoranthene		21.51	50	86.05	
benzo(k)fluoranthene		21.48	50	85.92	
benzo(a)pyrene		21.90	50	87.59	
indeno(1,2,3-cd)pyrene		22.07	50	88.29	
dibenzo(ah)anthracene		21.88	50	87.53	
benzo(ghi)perylene		22.39	50	89.57	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		7.90	50	31.62	
c-10		10.77	50	43.08	
c-12		13.88	50	55.53	
c-14		16.14	50	64.55	
c-16		17.84	50	71.35	
c-18		19.22	50	76.87	
c-19		21.03	50	84.11	
c-20		21.27	50	85.07	
1-chlorooctadecane	s	13.43	40	67.13	
c-22		21.25	50	85.00	
c-24		21.13	50	84.52	
c-26		20.73	50	82.90	
c-28		20.53	50	82.13	
c-30		20.40	50	81.61	
c-36		17.79	50	71.15	

Recovery C9-C18
57.16

Recovery C19-C36
82.06

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.00	0.00	0.00

SGS Accutest, Inc. Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 5.23.16 **Analyst Signature:** MD

Standard Data

Lot #	Description	Conc
GS18062	Al: CCV	50ug/mL
GS18055	Ano CCV	50ug/mL

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: DE160523 EPH.S
Quantitation Methods: EPH 160523 W.M
Instrument Run Batches: GDE 795
Data Acquisition Methods: EPH DUAL W Inj. Vol: 1mL
Inj. Vol:

Date of ICAL: 2.4.16 ICAL Verified — Sample positions verified against sequence: —

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
141/142	DE 14211	Prime	N/A	MA EPH	N/A	N/A	
141/142	12	CC735-50	↓	↓	↓	↓	ok
1/2	13	OP47576-BS	OP47576	↓	W	↓	
3/4	14	↓ -BSD	↓	↓	↓	↓	
5/6	15	↓ -MB	↓	↓	↓	↓	
7/8	16	MC45897-4A	↓	↓	↓	↓	
9/10	17	MC46001-3A	↓	↓	↓	↓	
11/12	18	↓ -6A	↓	↓	↓	↓	
13/14	19	MC45994-1	↓	↓	↓	↓	
15/16	20	↓ -2	↓	↓	↓	↓	
141/142	21	CC735-50	N/A	↓	N/A	↓	ok

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

GC014-01
Date: 9/15/10

Review:

BMAEPH - Aliphatic Continuing Calibration Report

Data File Path ATA\DE160523EPH\
Operator thomasa
Instrument Name GCDE

Name	Amount	Response		Continuing Avg. RF	Initial Avg. RF	%Diff	
c-9	52.75	3896964					
c-10	53.38	3942927					
c-12	52.88	3906646	**C9-C18**	77769	73872	**5.14**	**In Criteria**
c-14	52.49	3877628					
c-16	52.14	3852034					
c-18	52.18	3854640					
c-19	57.28	3826394	**C19-C36**	71764	66806	**7.16**	**In Criteria**
c-20	56.18	3753255					
c-22	55.71	3721732					
c-24	52.04	3476424		c28/c20 Percentage:		94.41	
c-26	55.16	3684804					
c-28	53.04	3543553					
c-30	52.97	3538745					
c-36	47.31	3160817					

1-chlorooctadecane	53.61	3032790
naphthalene #2	52.60	4200943
2-methylnaphthalene	52.04	4192839

BMAEPH - Aliphatic Continuing Calibration Report

Data File Path ATA\DE160523EPH\
Operator thomasa
Instrument Name GCDE

Name	Amount	Response		Continuing Avg. RF	Initial Avg. RF	%Diff	
c-9	51.07	3772479					
c-10	51.79	3825550					
c-12	51.47	3802315	**C9-C18**	76060	73872	**2.92**	**In Criteria**
c-14	51.43	3799603					
c-16	51.40	3796877					
c-18	51.73	3821273					
c-19	57.02	3809216	**C19-C36**	72831	66806	**8.63**	**In Criteria**
c-20	56.14	3750735					
c-22	56.05	3744442					
c-24	52.56	3511605		c28/c20 Percentage:		96.49	
c-26	56.03	3743420					
c-28	54.17	3618954					
c-30	54.30	3627781					
c-36	49.79	3326180					
1-chlorooctadecane	53.78	3042409					
naphthalene #2	51.16	4085875					
2-methylnaphthalene	50.74	4088050					

9.6.3

9

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47576-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		12.12	50	48.47	
2-methylnaphthalene		13.08	50	52.31	
2-fluorobiphenyl	s	15.80	40	79.00	
acenaphthylene		14.67	50	58.66	
2-bromonaphthalene	s	15.18	40	75.88	
acenaphthene		15.72	50	62.89	
fluorene		16.13	50	64.53	
phenanthrene		17.42	50	69.68	
anthracene		19.78	50	79.12	
o-terphenyl	s	18.00	40	89.98	
fluoranthene		20.84	50	83.36	
pyrene		20.91	50	83.63	
benzo(a)anthracene		23.15	50	92.59	
chrysene		23.26	50	93.06	
benzo(B)fluoranthene		22.93	50	91.72	
benzo(k)fluoranthene		24.13	50	96.53	
benzo(a)pyrene		23.90	50	95.59	
indeno(1,2,3-cd)pyrene		23.30	50	93.21	
dibenzo(ah)anthracene		23.03	50	92.11	
benzo(ghi)perylene		23.74	50	94.96	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		11.91	50	47.66	
c-10		15.02	50	60.09	
c-12		16.99	50	67.95	
c-14		17.81	50	71.23	
c-16		18.82	50	75.30	
c-18		20.16	50	80.64	
c-19		22.07	50	88.26	
c-20		21.96	50	87.85	
1-chlorooctadecane	s	17.52	40	87.60	
c-22		21.77	50	87.08	
c-24		21.54	50	86.15	
c-26		21.05	50	84.21	
c-28		20.78	50	83.10	
c-30		20.82	50	83.28	
c-36		17.24	50	68.95	

Recovery C9-C18
67.14

Recovery C19-C36
83.61

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.00	0.00	0.00

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47576-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		14.46	50	57.85	
2-methylnaphthalene		15.45	50	61.79	
2-fluorobiphenyl	s	17.50	40	87.49	
acenaphthylene		17.01	50	68.05	
2-bromonaphthalene	s	16.76	40	83.78	
acenaphthene		18.93	50	75.71	
fluorene		18.46	50	73.83	
phenanthrene		19.45	50	77.78	
anthracene		22.37	50	89.47	
o-terphenyl	s	18.41	40	92.06	
fluoranthene		22.88	50	91.53	
pyrene		22.80	50	91.19	
benzo(a)anthracene		23.80	50	95.20	
chrysene		24.38	50	97.51	
benzo(B)fluoranthene		24.23	50	96.93	
benzo(k)fluoranthene		22.32	50	89.28	
benzo(a)pyrene		23.42	50	93.69	
indeno(1,2,3-cd)pyrene		22.08	50	88.32	
dibenzo(ah)anthracene		23.03	50	92.12	
benzo(ghi)perylene		23.01	50	92.05	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		12.49	50	49.97	
c-10		15.89	50	63.55	
c-12		18.14	50	72.55	
c-14		19.10	50	76.39	
c-16		20.41	50	81.66	
c-18		22.21	50	88.85	
c-19		24.47	50	97.88	
c-20		24.51	50	98.03	
1-chlorooctadecane	s	17.91	40	89.56	
c-22		24.30	50	97.19	
c-24		24.08	50	96.31	
c-26		23.65	50	94.59	
c-28		23.46	50	93.86	
c-30		23.60	50	94.41	
c-36		20.65	50	82.58	

Recovery C9-C18
72.16

Recovery C19-C36
94.36

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.01	0.00	0.10

SGS ACCUTEST B827OSIMPAH

Extraction Log - Aqueous

(SIM) OP47501 &

Analysis Method: BMAEPH/BMAEPH2

Date Started: _____ **Time Started:** _____

Date Finished: _____ **Time Finished:** _____

Extraction Method (Check one):

Sep. Funnel SW3510C ✓

Waste Dilution SW3580A _____ MSE EPA 3511 _____

pH paper lot# 216814 Equipment ID Used _____

BATCH # (EPH) OP47498	INITIALS	DATE	TIME
Extracted by:	GD/EC	5/16/16	1400
Spike Witness:	GD	✓	✓
Concentrated by:	AJ	5/18/16	11:20
Fractionated by:	AJ	Volume (ml):	12.5 ml
Received by:	[illegible]	5/19/16	11:45

Tray # V.1

Spike ID	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7653	200	250

Surrogate	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7483	20000	20
EPH Fr	7661	40	1 ml
EPH Fr	7625	40	1 ml

Witness Initials: GD

Supervisor Approval:

	Sample #	Sample Bottle #	Acid pH	Base pH	Sample Description	Sample Initial Volume (mL)	Final Extract Final Volume (mL)	Comments
	OP47498 MB	N/A	2	N/A	DI WATER	1000	2.0	SHARES w/ OP47501
	BS	↓	↓	↓	↓	↓	↓	↓
	BSD	↓	↓	↓	↓	↓	↓	↓
	MC45897-3A MS	14	2	N/A		890	↓	
	↓ -3A MSD	15	↓	↓		810	↓	
1	MC45837-1	4	2	N/A	(SIM)	990	2.0	
2	-2	↓	↓	↓	↓	990	↓	
3	-3	↓	↓	↓	↓	990	↓	
4	-4	↓	↓	↓	↓	985	↓	
5	-5	↓	↓	↓	↓	990	↓	
6	MC45897-1A	4	2	N/A		875	↓	
7	-2A	↓	↓	↓		910	↓	
8	-3A	↓	↓	↓		870	↓	
9	-4A	↓	↓	↓		970	↓	
10	-5A	↓	↓	↓		880	↓	
11	-6A	↓	↓	↓		880	↓	
12	MC45881-1	1	2	N/A		970	↓	
13	-2	↓	↓	↓		1000	↓	
14	-3	↓	↓	↓		985	↓	
15	MC45910-2A	4	2	N/A		960	↓	
16	-4A	↓	↓	↓		940	↓	
17	MC45812-1	1	2	N/A		970	↓	
18	-2	↓	↓	↓		970	↓	
19	-3	↓	↓	↓		970	↓	
20								

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)	1+4	50/60	—
Waterbath Temp °C	005	40	—
NEVAP (32-38 °C)	—	—	—
Chiller	—	—	—
Balance	—	N/A	N/A

SOLVENT	LOT #	BRAND	AMT
1:1 HEXANE/	—	Fisher	
ACETONE	—	Fisher	
1:1 METH CHLOR/	—	Fisher	
ACETONE	—	Fisher	
HEXANE Only	162040	Fisher	
ETHER	—	Fisher	
ACETONITRILE	—	Fisher	
ACETONE	—	Fisher	
DCM	162342	Fisher	

REAGENT	LOT #	BRAND
SPE MFG	306285	Restek
SILICA GEL	—	—
SODIUM SULFATE	D020	FISHER
FILTER PAPER	966305	FISHER
COPPER	—	—
FLORISIL	—	—
SULFURIC ACID	—	—
HYDROMATRIX	—	—
SAND	—	—
Filtered by:	Init./Date:	

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

Comments:

Note: From MB up to MC45910-2A was used EPH Frac. PO # 7661

From MC45910-4A up to MC45812-3 was used EPH Frac. PO # 7625

SGS ACCUTEST - MARLBOROUGH
Form: OP018-02
Rev Date: 2/23/16

SGS ACCUTEST BMAEPHR

Extraction Log - Aqueous

OP47577 (SIM)

Analysis Method: 8270SIMPAH

Date Started: _____ **Time Started:** _____

Date Finished: _____ **Time Finished:** _____

Extraction Method (Check one):

Sep. Funnel SW3510C _____

Waste Dilution SW3580A _____ MSE EPA 3511 _____

pH paper lot# _____ Equipment ID Used _____

Spike ID	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7653	200	250

Surrogate	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7433	2000	20
EPH Fr	7725	40	1 mL

	Sample #	Sample Bottle #	Acid pH	Base pH	Sample Description	Sample Initial Volume (mL)	Final Extract Final Volume (mL)	Comments
1	OP47576 – MB	N/A	2	N/A	DI Water	1000	2.0	Shares w/ OP47577
	BS	↓	↓	↓	↓	↓	↓	↓
	BSD	↓	↓	↓	↓	↓	↓	↓
	MS							
	MSD							
1	MC45897-4A	5	2	N/A	GW	980	2.0	
2	MC46001-3A	4	↓	↓	↓	800	↓	
3	↓ -6A	4	↓	↓	↓	800	↓	
4	MC45894-1	2	↓	↓	↓	1000	↓	
5	↓ -2	2	↓	↓	↓	960	↓	
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								AJ 5/21/16
16								
17								
18								
19								
20								

Comments:

Witness Initials:

Supervisor Approval:

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

BATCH # OP47576	INITIALS	DATE	TIME
Extracted by:	IC	5/20/16	18:00
Spike Witness:			
Concentrated by:	AJ	5/21/16	13:40
Fractionated by:	AJ	Volume (ml):	2.5 mL
Received by:	AM	5/23/16	8°C

Tray # GC-38

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)	3	50/60	—
Waterbath Temp °C	005	40	—
NEVAP (32-38 °C)	—	—	—
Chiller	—	—	—
Balance	—	N/A	N/A

SOLVENT	LOT #	BRAND	AMT
1:1 HEXANE/	—	Fisher	
ACETONE	—	Fisher	
1:1 METH CHLOR/	—	Fisher	
ACETONE	—	Fisher	
HEXANE Only	162040	Fisher	
ETHER	—	Fisher	
ACETONITRILE	—	Fisher	
ACETONE	—	Fisher	
DCM	163343	Fisher	

REAGENT	LOT #	BRAND
SPE MFG	362885	Phenomenex
SILICA GEL	—	—
SODIUM SULFATE	D-021	FISHER
FILTER PAPER	9664305	↓
COPPER	—	—
FLORISIL	—	—
SULFURIC ACID	—	—
HYDROMATRIX	—	—
SAND	—	—
Filtered by:	Init./Date:	

SGS ACCUTEST - MARLBOROUGH
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